ANEJO Nº4

DATOS DEL LEVANTAMIENTO TOPOGRÁFICO. REPLANTEO

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1. INTRODUCCIÓN

El presente anejo contiene las prescripciones técnicas que han regido la realización de los trabajos de cartografía y topografía necesarios para la elaboración del levantamiento Topográfico de las infraestructuras proyectadas para el proyecto de modernización de la comunidad de regantes Nuestra Señora de la Alegría de Monzón.

2. METODOLOGÍA Y CARACTERÍSTICAS TÉCNICAS DEL TRABAJO REALIZADO

2.1. SISTEMA DE COORDENADAS

Sistema de referencia ETRS89 UTM Zona 31N para península y Baleares a partir de cotas elipsoidales WGS84.

2.2. BASE DE REPLANTEO

Se ha utilizado como base de referencia la estación permanente ubicada en Binefar (Huesca) de la Red de Geodesia Activa de Aragón (ARAGEA). Adjuntamos ficha técnica de dicha base.

La Red de Geodesia Activa de Aragón está compuesta actualmente por 22 estaciones distribuidas por el territorio de la Comunidad Autónoma de Aragón para dar respuesta a una creciente demanda en servicios de posicionamiento de alta precisión con receptores GNSS (Sistema de Navegación por Satélite) dentro del territorio de Aragón, en Datum ETRS89, dentro de un marco coherente con la Red REGENTE y las estaciones permanentes del Instituto Geográfico Nacional (IGN) y otros suministradores externos públicos, tanto nacionales como internacionales.

ARAGEA

Estación permanente de Binefar (BINE)

UBICACIÓN

Código estación:	BINE
Nombre RINEX3:	BINE3
Nombre:	Binefar
DOMES:	19369M001
Redes Pertenece:	ARAGEA
Instituciones Pertenece:	IGEAR
Localización:	C/ Marino de Pano 34, 22500 Binefar (Huesca) ARAGÓN
Fecha Instalación:	10/08/2010
Tipo instalación:	Basada ajustable anclada a cornisa. Nivelada uy orientada al norte.

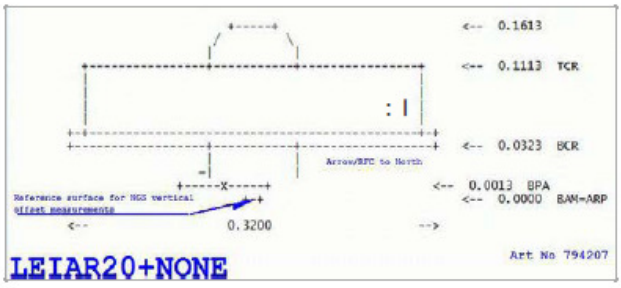
COORDENADAS ETRS89

Cartesianas	Geográficas	UTM
(x, y, z)	h	(x,y,huso)
4758462,2683	41º 50' 53,37602'' N	275514,129
24577,1193	0º 17' 45,33359'' E	4636453,366
4233287,0869	346,893 m.	31

INSTRUMENTACIÓN

LEICA

Antena:	Leica AR20 (LEIAR20 NONE)
Altura Antena:	0 metros.
Observaciones:	GPS, GLONASS, GALILEO y BEIDOU
Frecuencias:	L1, L2 y L2C



INFORMACIÓN ADICIONAL

Rinex Horarios cada 1 segundo, y Diarios cada 30 segundos.

Caser NTRIP:	http://ntrip.aragon.es:2101
RINEX y LOG	http://gnss.aragon.es
e-mail / Web:	aragea@aragon.es / http://gnss.aragon.es
Última actualización	30/03/2021

2.3. EQUIPO DE TRABAJO UTILIZADO

Para la realización de todos los levantamientos topográficos del presente proyecto se ha utilizado un equipo GPS Leiva Viva GS15, cuyas características técnicas se detallan a continuación:

Tecnología GNSS		
GNSS inteligente	Leica RTK plus Smart link (servicio de corrección mundial)	Selección de satélite que se adapta sobre la marcha posicionamiento de puntos preciosos remotos (3 cm 2d) Convergencia inicial a precisión total: entre 20 y 40 min. Reconvergencia menos de 1 min
	Smart link Full (servicio de corrección mundial)	Suple la conexión RTK en caso de interrupción durante un máximo de 10 min (3 cm 2d)
Leica Smart Check	Verificación continua de solución RTK	Fiabilidad del 99,99 %
Seguimiento de señales		GPS (L1, L2, L2C, L5), Glonass (L1, L2), BeiDou (B1, B2, B3) Galileo (E1, E5a, E5b, Alt-BOC, E6) QZSS, SBAS (WAAS, EGNOS, MSAS, GAGAN), L-band
Número de canales		555 (mas señales, adquisición rápida, alta sensibilidad
Rendimiento de Medición y Precisiones		
Tiempo de inicialización		Normalmente 4 segundos
Tiempo Real cinemático (de acuerdo con la norma iso17123-8)	Línea base individual Red RTK	Hz 8mm + 1 ppm/v 15 mm + 1 ppm Hz 8 mm + 0,5 ppm/v 15 mm + 0,5 pmm
Post proceso	Estático (fase) con observaciones largas Estático y estático rápido (fase)	Hz 3mm + 0,1 ppm/v 3,5 mm + 0,4 ppm Hz + 3mm + 0,5 ppm/v 5 mm + 0,5 pmm
Código diferencial	DGPS / RTCM	Típicamente 25 cm

Comunicaciones		
Puertos de comunicación	Lemo Bluetooth	USB y RS232 serie Bluetooth v2.00+EDR, CLASE 2
Protocolos de Comunicación	Protocolo de datos RTK Salida NMEA Red RTK	Leica, Leica 4G, CMR, CMR+ RTCM 2.2, 2.3, 3.0, 3.1, 3.2MSM NMEA 0183 V 4.00 y propietario Leica VRS, FKP, IMAX, MAC (RTCM SC 104)
Canales de datos integrados	Modem 3.5 G Radio Módem	Antena integrada interna o externa Antena integrada, recepción y transmisión, interna o externa Entre 403 y 470 MHz, potencia de salida de 1 w, hasta 28 800 bps (inalámbrico)
Canales de datos externo		GSM / GPRS / UMTS / CDMA y UHF / VHF módems

General		
Controlador de campo y software	Software Leica captivate Software Leica Smartworx viva	controlador de campo Leica CS20, tableta Leica CS35 Controlador de campo Leica CS10 y CS 15
Interfaz del usuario	Botones y LEDs Web server	Botones de encendido/apagado y de función, 8 LEDs de estado Información de estado completa y opciones de configuración
Registro de datos	Almacenamiento tipo de datos y tasa de registro	Tarjeta SD extraíble (8 GB) Datos brutos GNSS y datos RINEX de hasta 20 Hz
Administración de energía	Fuente de alimentación interna Alimentación externa Autonomía de trabajo	2 baterías de Li-Ion intercambiables (2.6 Ah / 7.4 V) Nominal 12 v DC, rango 10.5 - 28 v DC 10 h de recepción de datos (RX) con radio interna, 9 horas de transmisión de datos (Tx) con radio interna, 7,5 h de recepción/transmisión de datos con módem interno
Peso y Dimensiones	Peso Diámetro y Altura	1.64 kg (GS14) / 3.30 kg en modo bastón RTK 196 mm x 198 mm
Especificaciones ambientales	Temperatura	-40 °C a +65 °C en funcionamiento , -40 a 80 °C almacenado
	Caídas	Soporta golpes sobre bastón de 2m en superficie duras
	protege contra agua, arena y polvo	Ip68 (IEC60529 / MIL STD 810G 510.5 1 / MIL STD 810G 512.5 1)
	Vibración	Soporta fuertes vibraciones (ISO9022-36-08 / MIL STD 810G 514.6 cat.24
	Humedad	100 % (ISO9022-13-06/ISO9022-12-04/MIL STD 810G 507.5 I)
	Golpe en funcionamiento	40 g/15 a 23 msec (MIL STD 810g 516.6 I)

2.4. METODOLOGÍA DE TRABAJO

Para la realización del trabajo se han seguido diferentes metodologías de trabajo en función de la infraestructura a levantar y las características del terreno.

En el caso de las infraestructuras no lineales tales como balsas, estación de bombeo y planta solar fotovoltaica se ha levantado la totalidad de la superficie de las parcelas sobre las que se proyectan tomando una nube de puntos en los que se han identificado todas las infraestructuras existentes tales como apoyos de línea eléctrica, arquetas, acequias, y tuberías. Por otro lado, se han levantado los bordes de los caminos, pies y cabeza de taludes de los bancales y desagües a partir de los cuales se han trazado las correspondientes líneas de rotura. Finalmente se ha completado el levantamiento topográfico con la toma de puntos de relleno en aquellas zonas sin singularidades.

A partir de la nube de puntos levantada y previa identificación de todas las líneas de rotura se ha realizado la cartografía digital mediante la generación de un modelo de superficie con el programa informático Autocad MDT, generándose un curvado con equidistancia de 0,5 metros.

En el caso de las obras lineales, es decir tuberías y línea eléctrica se ha realizado el levantamiento topográfico a partir de un fichero de replanteo de puntos previamente definido en gabinete y comprobado posteriormente en campo, en el que se representan todos los vértices de las tuberías en planta, así como la ubicación prevista para los hidrantes.

A partir de este fichero de replanteo, previamente cargado en el GPS, se realizo el levantamiento de las trazas de la tuberías tomando los oportunos puntos de relleno así como todas las singularidades identificadas tales como cabezas y pies de talud, caminos y desagües, acequias, tuberías, cruces con líneas eléctricas, ect.

En el apartado 3 del presente anejo se recogen los datos del replanteo de las tuberías en el que identifican con un asterisco (*) todos los puntos de giro en planta de la tubería. También se han incluido en el replanteo los cambios de pendiente y puntos de relleno cada 20 metros.

En el caso de la tubería de impulsión, del pk 3+300 al final, de manera excepcional dadas las características del terreno, se realizó un levantamiento topográfico de una franja de unos 20 metros de anchura sobre el que se genero el correspondiente fichero de superficie.

Para la realización del trabajo se utilizaron técnicas de observación por tecnología GNSS

SmartCheck – procesamiento RTK para garantizar resultados correctos

SmartTrack – seguimiento GNSS de satélites de cuatro constelaciones hoy y en el futuro

SmartRTK– proporciona resultados consistentes con todas las redes

3. DATOS DEL REPLANTEO DE LAS TUBERÍAS

NOTA IMPORTANTE: Todas las coordenadas Z que aparecen en las siguientes tablas hacen referencia a la cota de la rasante de la zanja de la tubería.

3.1. T.1

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271945.686	4640003.662	347.798	*
20.000	271938.376	4639985.046	346.948	
40.000	271931.065	4639966.430	346.098	
44.974	271929.247	4639961.800	345.887	*
57.270	271917.222	4639964.366	345.364	*
60.000	271915.960	4639961.945	345.248	
80.000	271906.720	4639944.208	344.398	
100.000	271897.479	4639926.471	343.547	
100.082	271897.441	4639926.398	343.544	*
120.000	271891.541	4639907.374	342.920	
140.000	271885.617	4639888.271	342.294	
160.000	271879.693	4639869.169	341.668	
180.000	271873.769	4639850.066	341.041	
181.222	271873.407	4639848.899	341.003	*
200.000	271867.845	4639830.964	340.647	
220.000	271861.921	4639811.861	340.269	
240.000	271855.997	4639792.759	339.890	
243.797	271854.872	4639789.132	339.818	*
260.000	271839.851	4639795.206	339.511	
280.000	271821.309	4639802.703	339.132	
300.000	271802.768	4639810.200	338.753	
320.000	271784.226	4639817.697	338.374	
340.000	271765.684	4639825.194	337.996	
345.623	271760.471	4639827.302	337.889	*
360.000	271747.143	4639832.692	337.494	
380.000	271728.601	4639840.189	336.945	
387.760	271721.407	4639843.098	336.732	*
400.000	271710.059	4639847.686	336.575	
420.000	271691.518	4639855.183	336.320	
440.000	271672.976	4639862.680	336.064	
441.221	271671.844	4639863.138	336.048	*

3.2. T.2

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	272305.446	4640834.432	344.000	*
20.000	272307.981	4640854.271	344.621	
40.000	272310.516	4640874.109	345.243	

60.000	272313.051	4640893.948	345.864	
80.000	272315.586	4640913.787	346.486	
100.000	272318.121	4640933.625	347.107	
107.406	272319.060	4640940.972	347.337	*

3.3. T.3

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271849.004	4640254.831	348.230	*
20.000	271830.936	4640263.408	348.236	
40.000	271812.868	4640271.984	348.242	
60.000	271794.801	4640280.560	348.248	
80.000	271776.733	4640289.137	348.254	
100.000	271758.665	4640297.713	348.260	
120.000	271740.597	4640306.290	348.266	
140.000	271722.529	4640314.866	348.272	
144.347	271718.602	4640316.730	348.273	*
157.666	271708.217	4640308.391	348.277	*
160.000	271706.398	4640306.930	348.745	
170.044	271698.566	4640300.641	350.758	*
180.000	271688.952	4640303.229	351.074	
200.000	271669.640	4640308.428	351.710	
213.534	271656.571	4640311.946	352.140	*
220.000	271650.164	4640312.814	351.986	
240.000	271630.344	4640315.497	351.508	
260.000	271610.525	4640318.181	351.031	
280.000	271590.706	4640320.864	350.553	
300.000	271570.887	4640323.548	350.076	
320.000	271551.068	4640326.231	349.599	
338.336	271532.897	4640328.692	349.161	*
340.000	271532.688	4640327.041	348.765	
360.000	271530.168	4640307.201	344.011	
363.064	271529.782	4640304.161	343.283	*
380.000	271524.126	4640288.198	340.496	
388.208	271521.384	4640280.461	338.854	*
400.000	271517.446	4640269.346	337.781	
417.837	271511.488	4640252.533	336.159	*
420.000	271510.230	4640250.774	336.066	
440.000	271498.596	4640234.506	335.204	
460.000	271486.962	4640218.238	334.341	
480.000	271475.328	4640201.970	333.479	
500.000	271463.694	4640185.702	332.617	
520.000	271452.060	4640169.434	331.755	
540.000	271440.426	4640153.166	330.893	
554.420	271432.038	4640141.436	330.271	*
560.000	271428.792	4640136.897	330.246	
580.000	271417.158	4640120.629	330.156	
600.000	271405.524	4640104.361	330.065	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
620.000	271393.890	4640088.093	329.975	
637.791	271383.541	4640073.622	329.895	*
640.000	271382.256	4640071.825	329.824	
660.000	271370.622	4640055.557	329.179	
674.899	271361.956	4640043.438	328.698	*
680.000	271358.943	4640039.322	328.534	
700.000	271346.266	4640023.861	327.889	
715.451	271335.577	4640012.708	327.391	*
720.000	271332.320	4640009.532	327.244	
725.000	271328.741	4640006.041	327.083	*
740.000	271318.003	4639995.568	326.600	
760.000	271303.685	4639981.603	325.955	
780.000	271289.367	4639967.639	325.310	
800.000	271275.049	4639953.675	324.666	
820.000	271260.732	4639939.710	324.021	*
837.405	271248.272	4639927.558	323.689	*
840.000	271245.933	4639928.683	323.639	
860.000	271227.911	4639937.356	323.258	
880.000	271209.890	4639946.029	322.876	
900.000	271191.868	4639954.701	322.494	
920.000	271173.846	4639963.374	322.112	
940.000	271155.824	4639972.046	321.731	
956.266	271141.167	4639979.100	321.420	*
960.000	271139.349	4639982.362	321.382	
980.000	271129.611	4639999.831	321.176	
986.563	271126.415	4640005.563	321.108	*
1000.000	271119.532	4640017.101	320.970	
1020.000	271108.064	4640033.478	320.765	
1023.491	271105.917	4640036.232	320.729	*
1040.000	271095.668	4640049.174	320.559	
1056.663	271085.323	4640062.237	320.388	*
1060.000	271083.232	4640064.837	320.353	
1077.335	271071.776	4640077.841	320.175	*
1080.000	271069.939	4640079.773	320.148	
1100.000	271056.160	4640094.269	319.942	
1120.000	271042.380	4640108.764	319.736	
1140.000	271028.601	4640123.260	319.531	
1160.000	271014.821	4640137.756	319.325	
1164.000	271012.065	4640140.655	319.284	*
1180.000	271001.042	4640152.251	319.304	
1200.000	270987.262	4640166.747	319.330	
1220.000	270973.483	4640181.243	319.355	
1240.000	270959.703	4640195.738	319.380	
1260.000	270945.924	4640210.234	319.406	
1280.000	270932.144	4640224.730	319.431	
1300.000	270918.365	4640239.225	319.456	
1320.000	270904.585	4640253.721	319.482	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
1321.696	270903.417	4640254.950	319.484	*
1340.000	270890.806	4640268.217	319.862	
1360.000	270877.026	4640282.712	320.275	
1380.000	270863.247	4640297.208	320.688	
1394.090	270853.539	4640307.420	320.979	*
1400.000	270849.467	4640311.704	321.407	
1413.116	270840.431	4640321.210	322.358	*
1420.000	270833.763	4640322.923	322.857	
1433.145	270821.032	4640326.194	323.810	*
1440.000	270814.392	4640327.900	323.813	
1460.000	270795.021	4640332.877	323.823	
1480.000	270775.651	4640337.854	323.833	
1500.000	270756.280	4640342.832	323.843	
1520.000	270736.909	4640347.809	323.853	
1533.712	270723.628	4640351.221	323.860	*
1540.000	270717.538	4640352.786	322.603	
1546.169	270711.563	4640354.321	321.369	*
1560.000	270699.909	4640361.769	321.833	
1580.000	270683.056	4640372.538	322.503	
1600.000	270666.203	4640383.307	323.174	
1620.000	270649.350	4640394.077	323.845	
1640.000	270632.497	4640404.846	324.516	
1660.000	270615.644	4640415.616	325.186	
1673.294	270604.442	4640422.774	325.632	*
1680.000	270598.333	4640425.539	325.620	
1700.000	270580.112	4640433.785	325.585	
1720.000	270561.891	4640442.031	325.550	
1740.000	270543.670	4640450.277	325.515	
1746.050	270538.158	4640452.771	325.504	*
1760.000	270525.167	4640457.854	325.364	
1780.000	270506.541	4640465.141	325.163	
1800.000	270487.916	4640472.428	324.962	
1810.214	270478.404	4640476.149	324.859	*
1820.000	270468.642	4640476.824	324.761	
1840.000	270448.689	4640478.202	324.560	
1854.223	270434.500	4640479.183	324.417	*
1860.000	270428.732	4640479.508	324.359	
1880.000	270408.739	4640479.510	324.158	
1884.284	270404.461	4640479.284	324.115	*
1892.528	270396.244	4640478.622	323.588	*
1900.000	270388.808	4640477.889	323.110	
1920.000	270368.904	4640475.927	321.831	
1940.000	270349.001	4640473.964	320.552	
1960.000	270329.097	4640472.002	319.273	
1961.487	270327.618	4640471.856	319.178	*
1980.000	270309.194	4640470.039	318.973	
2000.000	270289.290	4640468.076	318.751	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
2009.065	270280.269	4640467.187	318.650	*
2020.000	270269.928	4640470.741	318.529	
2040.000	270251.014	4640477.241	318.306	
2060.000	270232.099	4640483.741	318.084	
2080.000	270213.185	4640490.242	317.862	
2100.000	270194.271	4640496.742	317.640	
2120.000	270175.357	4640503.242	317.418	
2140.000	270156.443	4640509.743	317.195	
2147.329	270149.511	4640512.125	317.114	*
2147.329	270149.511	4640512.125	317.114	*
2160.000	270136.853	4640512.678	316.973	
2180.000	270116.872	4640513.552	316.751	
2181.009	270115.863	4640513.596	316.740	*
2200.000	270099.475	4640523.191	316.389	
2220.000	270082.215	4640533.295	316.018	
2240.000	270064.956	4640543.400	315.648	
2250.342	270056.031	4640548.625	315.457	*
2260.000	270050.881	4640556.796	315.451	
2280.000	270040.218	4640573.716	315.440	
2300.000	270029.555	4640590.636	315.428	
2320.000	270018.891	4640607.557	315.417	
2340.000	270008.228	4640624.477	315.405	
2360.000	269997.564	4640641.397	315.394	
2380.000	269986.901	4640658.317	315.382	
2400.000	269976.238	4640675.237	315.371	
2415.002	269968.239	4640687.929	315.362	*
2420.000	269964.019	4640690.607	315.297	
2440.000	269947.133	4640701.325	315.039	
2460.000	269930.247	4640712.042	314.780	
2480.000	269913.361	4640722.759	314.521	
2489.220	269905.576	4640727.700	314.402	*
2500.000	269903.691	4640738.314	314.262	
2501.182	269903.484	4640739.477	314.247	*
2520.000	269900.271	4640758.019	313.847	
2540.000	269896.855	4640777.725	313.423	
2560.000	269893.440	4640797.431	312.998	
2580.000	269890.025	4640817.138	312.574	
2586.768	269888.869	4640823.806	312.430	*
2600.000	269894.128	4640835.948	311.642	
2620.000	269902.077	4640854.301	310.452	
2640.000	269910.025	4640872.654	309.262	
2659.577	269917.806	4640890.618	308.097	*
2660.000	269917.974	4640891.006	308.072	
2680.000	269926.747	4640908.972	306.881	
2700.000	269937.053	4640926.105	305.691	
2700.553	269937.359	4640926.565	305.658	*
2720.000	269948.815	4640942.273	305.652	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
2725.353	269952.198	4640946.421	305.651	*
2740.000	269961.589	4640957.662	305.646	
2760.000	269974.411	4640973.011	305.640	
2780.000	269987.233	4640988.360	305.634	
2800.000	270000.056	4641003.708	305.628	
2820.000	270012.878	4641019.057	305.622	
2840.000	270025.700	4641034.406	305.616	
2860.000	270038.523	4641049.755	305.610	
2880.000	270051.345	4641065.104	305.604	
2883.546	270053.618	4641067.825	305.603	*
2900.000	270064.167	4641080.453	306.166	
2908.520	270069.629	4641086.992	306.458	*
2920.000	270076.989	4641095.802	306.461	
2935.211	270086.741	4641107.475	306.466	*
2940.000	270091.491	4641106.865	306.545	
2960.000	270111.328	4641104.317	306.876	
2980.000	270131.165	4641101.768	307.207	
3000.000	270151.002	4641099.219	307.538	
3016.465	270167.333	4641097.121	307.810	*

3.4. T.3.1

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271248.457	4639927.469	323.689	*
20.000	271258.295	4639910.056	324.794	
40.000	271268.133	4639892.643	325.900	
57.046	271276.518	4639877.802	326.842	*
60.000	271277.982	4639875.236	327.005	
60.281	271278.123	4639874.993	327.021	*
80.000	271288.468	4639858.209	328.795	
100.000	271299.925	4639841.819	330.594	
112.226	271307.390	4639832.138	331.694	*
120.000	271312.315	4639826.123	331.951	
140.000	271325.596	4639811.173	332.614	
159.976	271339.706	4639797.036	333.276	*
160.000	271339.723	4639797.020	333.276	
180.000	271354.257	4639783.281	333.939	
200.000	271368.791	4639769.541	334.601	
220.000	271383.325	4639755.802	335.264	
240.000	271397.859	4639742.063	335.926	
245.797	271402.072	4639738.081	336.118	*

3.5. T.3.2

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271532.897	4640328.692	349.161	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
13.512	271533.644	4640342.183	348.791	*
20.000	271532.365	4640348.544	348.613	
40.000	271528.423	4640368.152	348.065	
60.000	271524.481	4640387.759	347.517	
75.965	271521.335	4640403.411	347.080	*
80.000	271520.539	4640407.367	347.054	
100.000	271516.597	4640426.975	346.924	
120.000	271512.655	4640446.582	346.793	
140.000	271508.713	4640466.190	346.663	
153.835	271505.986	4640479.753	346.573	*
160.000	271506.837	4640485.860	345.382	
176.501	271509.113	4640502.203	342.195	*
176.501	271509.113	4640502.203	342.195	*
180.000	271509.993	4640505.589	341.990	
200.000	271515.021	4640524.947	340.818	
220.000	271520.050	4640544.304	339.647	
240.000	271525.078	4640563.662	338.475	
260.000	271530.107	4640583.020	337.303	
280.000	271535.135	4640602.377	336.132	
300.000	271540.164	4640621.735	334.960	
316.166	271544.228	4640637.381	334.013	*
320.000	271540.504	4640638.291	333.944	
340.000	271521.075	4640643.039	333.583	
360.000	271501.647	4640647.786	333.223	
380.000	271482.219	4640652.533	332.862	
400.000	271462.790	4640657.281	332.502	
401.668	271461.170	4640657.677	332.471	*
420.000	271443.555	4640662.736	332.141	
423.993	271439.775	4640664.024	332.069	*
440.000	271424.867	4640669.842	331.974	
444.643	271420.622	4640671.723	331.947	*
460.000	271406.646	4640678.088	331.855	
475.244	271392.773	4640684.405	331.765	*
480.000	271392.133	4640689.118	331.737	
483.905	271391.608	4640692.988	331.714	*

3.6. T.3.3

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271141.167	4639979.100	321.420	*
20.000	271133.442	4639960.652	322.018	
40.000	271125.717	4639942.204	322.616	
60.000	271117.992	4639923.756	323.214	
60.682	271117.728	4639923.127	323.234	*

3.7. T.3.4

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271511.488	4640252.533	336.159	*
20.000	271491.854	4640256.342	336.059	
40.000	271472.220	4640260.152	335.959	
60.000	271452.586	4640263.961	335.859	
80.000	271432.953	4640267.771	335.759	
89.201	271423.920	4640269.523	335.713	*
100.000	271416.492	4640277.361	335.659	
102.592	271414.709	4640279.242	335.646	*
110.880	271409.007	4640285.258	337.563	*
110.880	271409.007	4640285.258	337.563	*
120.000	271401.717	4640290.738	337.746	
123.363	271399.029	4640292.759	337.813	*
140.000	271385.675	4640302.682	338.147	
143.084	271383.200	4640304.521	338.209	*
160.000	271369.622	4640314.610	339.783	
166.224	271364.626	4640318.323	340.362	*
174.126	271358.283	4640323.036	340.386	*
180.000	271353.614	4640326.599	340.403	
192.477	271344.008	4640334.559	340.441	*
200.000	271338.348	4640339.515	340.463	
219.817	271323.439	4640352.570	340.523	*
220.000	271323.301	4640352.690	340.544	
240.000	271308.254	4640365.866	342.862	
255.786	271296.378	4640376.265	344.691	*
260.000	271297.231	4640380.392	344.952	
272.552	271299.771	4640392.684	345.731	*
280.000	271292.481	4640394.211	345.486	
300.000	271272.906	4640398.313	344.828	
316.228	271257.023	4640401.640	344.294	*
320.000	271253.331	4640402.414	344.248	
336.328	271237.350	4640405.762	344.048	*
340.000	271233.762	4640406.544	344.003	
360.000	271214.473	4640411.804	343.759	
380.000	271195.716	4640418.727	343.514	
390.499	271186.130	4640423.009	343.385	*
400.000	271177.547	4640427.082	343.269	
420.000	271159.479	4640435.657	343.024	
421.755	271157.893	4640436.409	343.003	*
440.000	271141.410	4640444.231	341.755	
460.000	271123.341	4640452.806	340.387	
466.021	271117.902	4640455.387	339.975	*
473.247	271119.614	4640462.408	339.481	*
480.000	271121.213	4640468.969	339.437	
500.000	271125.949	4640488.400	339.305	
520.000	271130.686	4640507.831	339.174	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
540.000	271135.423	4640527.262	339.042	
551.645	271138.181	4640538.575	338.966	*
560.000	271132.510	4640544.711	338.911	
567.342	271127.527	4640550.103	338.863	*
580.000	271115.007	4640551.968	338.792	
600.000	271095.225	4640554.914	338.680	
620.000	271075.443	4640557.861	338.568	
640.000	271055.661	4640560.807	338.455	
647.964	271047.785	4640561.981	338.411	*
660.000	271035.932	4640564.066	338.343	
680.000	271016.531	4640568.898	338.231	
700.000	270997.625	4640575.404	338.119	
715.190	270983.686	4640581.433	338.034	*
720.000	270979.337	4640583.488	338.007	
740.000	270961.254	4640592.033	337.894	
754.700	270947.963	4640598.313	337.812	*
760.000	270943.171	4640600.577	337.689	
780.000	270925.089	4640609.122	337.224	
800.000	270907.006	4640617.667	336.760	
820.000	270888.923	4640626.211	336.295	
820.148	270888.789	4640626.275	336.292	*
835.474	270874.404	4640631.563	335.936	*
840.000	270869.962	4640632.427	335.831	
856.577	270853.689	4640635.591	335.446	*
860.000	270852.062	4640638.602	335.229	
880.000	270842.556	4640656.199	333.963	
897.304	270834.332	4640671.423	332.867	*
900.000	270833.050	4640673.795	332.613	
920.000	270823.544	4640691.392	330.729	
940.000	270814.039	4640708.988	328.845	
950.133	270809.222	4640717.903	327.891	*
960.000	270799.379	4640718.585	327.921	
980.000	270779.427	4640719.967	327.981	
1000.000	270759.474	4640721.349	328.040	
1012.853	270746.652	4640722.238	328.079	*
1020.000	270739.522	4640722.732	328.260	
1040.000	270719.570	4640724.114	328.767	
1060.000	270699.618	4640725.496	329.274	
1078.442	270681.220	4640726.770	329.741	*
1080.000	270679.883	4640727.570	329.675	
1100.000	270662.724	4640737.844	328.822	
1120.000	270645.564	4640748.117	327.970	
1124.833	270641.417	4640750.600	327.764	*
1140.000	270636.795	4640765.045	327.118	
1156.001	270631.919	4640780.286	326.436	*
1156.001	270631.919	4640780.286	326.436	*
1160.000	270628.390	4640782.166	325.910	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
1175.757	270614.485	4640789.577	323.836	*
1180.000	270610.741	4640791.573	323.485	
1200.000	270593.091	4640800.980	321.829	
1209.584	270584.633	4640805.487	321.035	*
1220.000	270586.507	4640815.733	320.353	
1240.000	270590.105	4640835.407	319.043	
1260.000	270593.704	4640855.080	317.733	
1280.000	270597.302	4640874.754	316.423	
1283.775	270597.982	4640878.467	316.176	*
1300.000	270600.901	4640894.428	315.462	
1320.000	270604.499	4640914.101	314.582	
1332.724	270606.789	4640926.618	314.022	*
1340.000	270608.098	4640933.775	313.889	
1360.000	270611.696	4640953.448	313.524	
1379.447	270615.195	4640972.578	313.169	*
1380.000	270615.295	4640973.122	313.166	
1400.000	270618.893	4640992.796	313.066	
1420.000	270622.492	4641012.469	312.966	
1440.000	270626.090	4641032.143	312.867	
1447.114	270627.370	4641039.141	312.831	*
1451.645	270628.185	4641043.598	312.958	*
1454.924	270628.753	4641046.828	313.050	*
1460.000	270629.594	4641051.833	313.193	
1480.000	270632.911	4641071.556	313.755	
1500.000	270636.227	4641091.279	314.317	
1520.000	270639.543	4641111.002	314.878	
1532.407	270641.601	4641123.238	315.227	*
1540.000	270642.860	4641130.726	315.526	
1560.000	270646.176	4641150.449	316.315	
1580.000	270649.493	4641170.172	317.104	
1600.000	270652.809	4641189.895	317.893	
1620.000	270656.125	4641209.618	318.682	
1625.362	270657.014	4641214.906	318.893	*
1640.000	270659.442	4641229.341	319.701	
1660.000	270662.758	4641249.064	320.806	
1670.012	270664.418	4641258.938	321.358	*
1678.174	270672.558	4641259.533	321.809	*

3.8. T.3.5

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269903.484	4640739.477	314.247	*
20.000	269883.502	4640738.627	314.182	
32.186	269871.327	4640738.109	314.142	*
40.000	269864.348	4640734.594	313.517	
56.007	269850.052	4640727.393	312.236	*
56.007	269850.052	4640727.393	312.236	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
60.000	269846.100	4640727.956	312.183	
80.000	269826.300	4640730.777	311.918	
100.000	269806.500	4640733.598	311.654	
120.000	269786.700	4640736.420	311.389	
139.085	269767.805	4640739.112	311.136	*
140.000	269766.900	4640739.243	311.124	
160.000	269747.263	4640743.003	310.859	
164.957	269742.452	4640744.199	310.793	*
180.000	269727.894	4640747.986	310.594	
183.721	269724.293	4640748.923	310.545	*
200.000	269708.538	4640753.021	310.186	
220.000	269689.182	4640758.057	309.746	
240.000	269669.827	4640763.092	309.305	
254.652	269655.647	4640766.781	308.982	*
260.000	269650.487	4640768.188	308.865	
263.830	269646.813	4640769.269	308.780	*
280.000	269631.340	4640773.964	308.424	
300.000	269612.201	4640779.771	307.983	
320.000	269593.063	4640785.578	307.543	
340.000	269573.924	4640791.384	307.102	
348.411	269565.875	4640793.827	306.917	*
360.000	269557.653	4640801.993	306.851	
380.000	269543.463	4640816.088	306.738	
383.792	269540.773	4640818.760	306.717	*
396.256	269540.729	4640831.224	308.079	*

3.9. T.3.6

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269968.239	4640687.929	315.362	*
0.000	269968.239	4640687.929	315.362	*
20.000	269980.657	4640703.607	318.897	
24.569	269983.494	4640707.188	319.705	*
40.000	269993.076	4640719.284	319.782	
43.571	269995.293	4640722.083	319.800	*

3.10. T.5

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271982.609	4640799.334	345.357	*
20.000	271971.912	4640816.233	344.494	
40.000	271961.216	4640833.132	343.631	
60.000	271950.520	4640850.032	342.768	
80.000	271939.823	4640866.931	341.905	
100.000	271929.127	4640883.830	341.042	
120.000	271918.430	4640900.730	340.179	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
140.000	271907.734	4640917.629	339.316	
160.000	271897.038	4640934.528	338.453	
169.255	271892.088	4640942.349	338.054	*
180.000	271886.341	4640951.428	337.977	
200.000	271875.645	4640968.327	337.833	
220.000	271864.949	4640985.226	337.689	
240.000	271854.252	4641002.126	337.545	
256.542	271845.405	4641016.103	337.426	*
260.000	271845.208	4641019.556	337.548	
280.000	271844.068	4641039.523	338.255	
300.000	271842.927	4641059.491	338.962	
320.000	271841.786	4641079.458	339.670	
340.000	271840.646	4641099.425	340.377	
360.000	271839.505	4641119.393	341.084	
380.000	271838.364	4641139.360	341.791	
394.908	271837.514	4641154.244	342.318	*
400.000	271834.766	4641158.531	342.868	
417.372	271825.391	4641173.156	344.744	*
420.000	271825.553	4641175.779	344.755	
440.000	271826.791	4641195.741	344.836	
460.000	271828.028	4641215.702	344.918	
480.000	271829.265	4641235.664	345.000	
500.000	271830.503	4641255.626	345.082	
520.000	271831.740	4641275.587	345.163	
524.810	271832.038	4641280.388	345.183	*
540.000	271832.977	4641295.549	345.501	
560.000	271834.215	4641315.511	345.919	
580.000	271835.452	4641335.472	346.338	
600.000	271836.689	4641355.434	346.756	
606.913	271837.117	4641362.333	346.901	*
620.000	271836.580	4641375.410	347.175	
640.000	271835.760	4641395.393	347.594	
660.000	271834.939	4641415.376	348.012	
665.581	271834.710	4641420.952	348.129	*
680.000	271822.568	4641428.729	347.838	
700.000	271805.727	4641439.516	347.434	
715.121	271792.993	4641447.672	347.129	*
720.000	271788.885	4641450.304	347.144	
740.000	271772.043	4641461.091	347.203	
749.258	271764.247	4641466.084	347.231	*
760.000	271755.202	4641471.878	348.208	
774.232	271743.218	4641479.554	349.503	*
780.000	271740.104	4641484.409	349.249	
794.339	271732.363	4641496.479	348.616	*
800.000	271729.307	4641501.244	347.941	
820.000	271718.510	4641518.080	345.558	
822.794	271717.001	4641520.432	345.225	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
840.000	271708.079	4641535.141	343.175	
857.232	271699.891	4641550.302	341.121	*
860.000	271698.647	4641552.774	340.971	
880.000	271690.255	4641570.926	339.888	
900.000	271682.933	4641589.534	338.805	
920.000	271676.704	4641608.536	337.723	
929.428	271674.153	4641617.613	337.212	*
940.000	271671.433	4641627.828	336.640	
947.551	271669.490	4641635.125	336.231	*
960.000	271666.286	4641647.155	335.738	
980.000	271661.139	4641666.481	334.946	
1000.000	271655.992	4641685.807	334.155	
1020.000	271650.845	4641705.134	333.363	
1040.000	271645.698	4641724.460	332.571	
1060.000	271640.551	4641743.787	331.779	
1080.000	271635.404	4641763.113	330.988	
1100.000	271630.257	4641782.439	330.196	
1120.000	271625.110	4641801.766	329.404	
1129.295	271622.718	4641810.748	329.036	*
1140.000	271619.963	4641821.092	329.068	
1160.000	271614.816	4641840.419	329.128	
1180.000	271609.669	4641859.745	329.188	
1200.000	271604.523	4641879.071	329.248	
1220.000	271599.376	4641898.398	329.308	
1240.000	271594.229	4641917.724	329.368	
1242.787	271593.512	4641920.417	329.376	*
1257.728	271597.852	4641934.714	329.620	*
1260.000	271595.715	4641935.485	329.657	
1280.000	271576.902	4641942.273	329.984	
1300.000	271558.089	4641949.062	330.310	*
1320.000	271539.276	4641955.850	330.180	
1340.000	271520.464	4641962.639	330.051	
1349.948	271511.106	4641966.015	329.986	*
1360.000	271501.777	4641969.758	329.921	
1380.000	271483.216	4641977.206	329.792	
1380.131	271483.095	4641977.255	329.791	*
1400.000	271464.451	4641984.117	329.662	
1419.300	271445.991	4641989.742	329.537	*
1420.000	271445.316	4641989.927	329.533	
1440.000	271426.029	4641995.218	329.403	
1460.000	271406.741	4642000.508	329.274	
1477.573	271389.794	4642005.157	329.160	*
1480.000	271387.668	4642006.327	329.144	
1496.632	271373.096	4642014.344	329.036	*
1500.000	271369.814	4642015.101	328.988	
1520.000	271350.326	4642019.598	328.704	
1540.000	271330.838	4642024.094	328.420	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
1560.000	271311.350	4642028.590	328.135	
1580.000	271291.862	4642033.086	327.851	
1600.000	271272.374	4642037.583	327.567	
1616.692	271256.109	4642041.335	327.330	*
1620.000	271252.882	4642042.063	327.283	
1633.432	271239.712	4642044.700	327.092	*
1640.000	271233.270	4642045.979	326.999	
1660.000	271213.653	4642049.875	326.714	
1661.154	271212.521	4642050.099	326.698	*
1680.000	271194.036	4642053.770	326.088	
1700.000	271174.419	4642057.665	325.440	
1720.000	271154.802	4642061.560	324.792	
1720.506	271154.306	4642061.659	324.776	*
1740.000	271137.172	4642070.958	324.145	
1742.406	271135.058	4642072.105	324.067	*
1760.000	271119.594	4642080.497	323.498	
1776.405	271105.175	4642088.322	322.967	*
1780.000	271103.325	4642085.240	322.850	
1790.136	271098.108	4642076.550	322.522	*
1800.000	271089.213	4642080.813	322.320	
1820.000	271071.178	4642089.457	321.910	
1840.000	271053.142	4642098.101	321.499	
1860.000	271035.107	4642106.745	321.089	
1865.282	271030.344	4642109.028	320.981	*
1880.000	271015.928	4642106.059	320.679	
1900.000	270996.339	4642102.025	320.269	
1920.000	270976.750	4642097.990	319.859	
1940.000	270957.162	4642093.956	319.448	
1960.000	270937.573	4642089.921	319.038	
1980.000	270917.984	4642085.887	318.628	
2000.000	270898.395	4642081.853	318.217	
2003.290	270895.172	4642081.189	318.150	*
2020.000	270878.528	4642082.662	318.200	
2040.000	270858.605	4642084.425	318.260	
2060.000	270838.683	4642086.188	318.320	
2075.930	270822.815	4642087.592	318.368	*
2080.000	270818.802	4642088.267	318.380	
2100.000	270799.078	4642091.582	318.440	
2120.000	270779.355	4642094.898	318.500	
2140.000	270759.632	4642098.213	318.560	
2160.000	270739.909	4642101.529	318.620	
2165.515	270734.470	4642102.443	318.637	*
2180.000	270723.745	4642112.179	318.827	
2200.000	270708.936	4642125.621	319.088	
2203.566	270706.296	4642128.018	319.135	*
2220.000	270694.127	4642139.064	319.514	
2230.979	270685.999	4642146.443	319.768	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
2230.979	270685.999	4642146.443	319.768	*
2240.000	270679.177	4642152.346	319.977	
2260.000	270664.053	4642165.433	320.439	
2280.000	270648.929	4642178.521	320.901	
2300.000	270633.806	4642191.608	321.364	
2319.266	270619.237	4642204.214	321.809	*
2320.000	270618.824	4642204.822	321.811	
2340.000	270607.579	4642221.361	321.871	
2345.592	270604.435	4642225.985	321.888	*
2360.000	270590.186	4642223.851	321.931	
2380.000	270570.407	4642220.887	321.991	
2385.522	270564.946	4642220.069	322.007	*
2400.000	270550.628	4642217.924	321.272	
2420.000	270530.849	4642214.961	320.256	
2438.692	270512.363	4642212.191	319.306	*
2440.000	270511.069	4642212.000	319.240	
2460.000	270491.206	4642209.688	318.224	
2476.625	270474.615	4642208.648	317.379	*
2480.000	270471.242	4642208.535	317.256	
2494.159	270457.085	4642208.421	316.742	*
2500.000	270451.244	4642208.494	316.530	
2520.000	270431.245	4642208.745	315.804	
2525.815	270425.431	4642208.818	315.593	*
2540.000	270411.247	4642208.995	315.223	
2560.000	270391.249	4642209.246	314.702	
2580.000	270371.250	4642209.496	314.180	
2589.795	270361.456	4642209.619	313.925	*
2600.000	270351.363	4642211.127	313.588	
2612.248	270339.249	4642212.937	313.183	*
2620.000	270331.596	4642214.169	312.926	
2640.000	270311.997	4642218.141	312.265	
2642.649	270309.419	4642218.752	312.177	*
2660.000	270292.553	4642222.821	311.604	
2662.466	270290.156	4642223.399	311.522	*
2680.000	270273.128	4642227.584	310.942	
2680.780	270272.371	4642227.770	310.916	*
2700.000	270255.916	4642237.703	310.674	
2720.000	270238.793	4642248.038	310.422	
2740.000	270221.671	4642258.373	310.169	
2760.000	270204.548	4642268.708	309.917	
2762.683	270202.251	4642270.095	309.884	*
2780.000	270187.207	4642278.667	309.665	
2800.000	270169.321	4642287.610	309.413	
2818.657	270152.193	4642295.003	309.178	*
2820.000	270150.946	4642295.501	309.161	
2824.994	270146.309	4642297.355	309.098	*
2840.000	270132.376	4642302.926	308.988	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
2860.000	270113.805	4642310.351	308.841	
2880.000	270095.234	4642317.776	308.695	
2895.095	270081.218	4642323.380	308.584	*
2900.000	270076.651	4642325.168	308.548	
2903.383	270073.486	4642326.363	308.523	*
2920.000	270057.912	4642332.159	308.402	
2940.000	270039.168	4642339.134	308.255	
2960.000	270020.424	4642346.110	308.108	
2969.481	270011.538	4642349.416	308.039	*
2972.822	270012.797	4642352.512	308.015	*
2980.000	270006.568	4642356.079	307.979	
3000.000	269989.213	4642366.019	307.879	
3020.000	269971.858	4642375.958	307.779	
3040.000	269954.503	4642385.898	307.679	
3043.276	269951.660	4642387.526	307.663	*
3060.000	269935.431	4642391.564	307.579	
3080.000	269916.023	4642396.394	307.479	
3100.000	269896.615	4642401.223	307.379	
3118.976	269878.200	4642405.805	307.284	*
3120.000	269877.291	4642406.277	307.279	
3140.000	269859.545	4642415.500	307.179	
3160.000	269841.798	4642424.722	307.079	
3166.404	269836.115	4642427.675	307.047	*
3180.000	269825.219	4642419.543	306.553	
3182.846	269822.938	4642417.841	306.449	*
3200.000	269807.194	4642424.652	306.215	
3210.344	269797.700	4642428.759	306.073	*
3220.000	269788.760	4642432.404	305.942	
3222.856	269786.087	4642433.410	305.903	*
3240.000	269770.004	4642439.347	305.668	
3254.387	269756.507	4642444.330	305.472	*
3260.000	269751.241	4642446.274	305.395	
3260.575	269750.702	4642446.473	305.387	*
3265.135	269746.557	4642444.573	305.325	*
3280.000	269732.539	4642449.521	305.192	
3300.000	269713.680	4642456.178	305.012	
3320.000	269694.820	4642462.835	304.832	
3328.159	269687.127	4642465.551	304.759	*
3340.000	269687.746	4642477.376	305.549	
3344.055	269687.958	4642481.426	305.819	*
3360.000	269692.660	4642496.662	306.172	
3380.000	269698.558	4642515.772	306.614	
3400.000	269704.455	4642534.883	307.057	
3417.779	269709.698	4642551.871	307.450	*
3420.000	269710.241	4642554.025	307.505	
3440.000	269715.126	4642573.419	308.002	
3448.713	269717.253	4642581.868	308.219	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
3460.000	269720.279	4642592.741	308.500	
3480.000	269726.941	4642611.592	308.997	
3480.007	269726.943	4642611.599	308.997	*
3500.000	269734.422	4642630.140	309.494	
3520.000	269741.903	4642648.688	309.991	
3540.000	269749.385	4642667.236	310.488	
3560.000	269756.866	4642685.785	310.985	
3561.029	269757.251	4642686.739	311.011	*
3580.000	269764.347	4642704.333	311.575	
3589.575	269767.929	4642713.212	311.859	*
3599.719	269771.514	4642722.701	312.161	*
3600.000	269771.607	4642722.966	312.169	
3620.000	269778.260	4642741.827	312.764	
3640.000	269784.913	4642760.688	313.358	
3660.000	269791.565	4642779.549	313.952	
3680.000	269798.218	4642798.411	314.547	
3700.000	269804.870	4642817.272	315.141	
3720.000	269811.523	4642836.133	315.736	
3733.741	269816.094	4642849.092	316.144	*
3740.000	269822.126	4642850.761	316.395	
3744.303	269826.273	4642851.909	316.567	*
3760.000	269831.275	4642866.787	317.195	
3760.477	269831.426	4642867.239	317.214	*
3780.000	269836.892	4642885.977	317.995	
3800.000	269841.997	4642905.314	318.795	
3801.452	269842.368	4642906.718	318.853	*
3809.526	269843.492	4642914.714	319.176	*
3815.119	269844.270	4642920.252	320.809	*
3820.000	269839.590	4642921.640	320.785	
3840.000	269820.415	4642927.325	320.685	
3860.000	269801.240	4642933.011	320.585	
3880.000	269782.065	4642938.696	320.484	
3900.000	269762.890	4642944.382	320.384	
3920.000	269743.716	4642950.067	320.284	
3940.000	269724.541	4642955.753	320.184	
3960.000	269705.366	4642961.438	320.084	
3980.000	269686.191	4642967.124	319.984	
4000.000	269667.016	4642972.809	319.884	
4020.000	269647.841	4642978.495	319.784	
4040.000	269628.667	4642984.181	319.684	
4060.000	269609.492	4642989.866	319.584	
4080.000	269590.317	4642995.552	319.484	
4094.628	269576.292	4642999.710	319.411	*
4100.000	269574.920	4643004.904	318.568	
4102.692	269574.233	4643007.507	318.146	*
4113.445	269571.487	4643017.903	318.092	*
4120.000	269564.956	4643017.333	318.059	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
4140.000	269545.032	4643015.593	317.959	
4160.000	269525.108	4643013.853	317.860	
4180.000	269505.184	4643012.113	317.760	
4198.978	269486.278	4643010.462	317.665	*
4200.000	269485.260	4643010.373	317.660	
4220.000	269465.336	4643008.633	317.560	
4240.000	269445.411	4643006.893	317.460	
4242.337	269443.083	4643006.690	317.448	*
4260.000	269425.445	4643005.833	317.360	
4269.940	269415.507	4643005.950	317.310	*
4280.000	269405.452	4643006.286	317.260	
4300.000	269385.464	4643006.955	317.160	
4320.000	269365.475	4643007.623	317.060	
4323.765	269361.712	4643007.749	317.041	*
4340.000	269345.545	4643009.238	316.960	
4360.000	269325.630	4643011.072	316.860	
4380.000	269305.714	4643012.906	316.760	
4400.000	269285.798	4643014.739	316.660	
4420.000	269265.882	4643016.573	316.560	
4440.000	269245.967	4643018.407	316.460	
4451.665	269234.351	4643019.477	316.401	*
4460.000	269226.067	4643020.392	316.360	
4480.000	269206.368	4643023.812	316.260	
4483.732	269202.729	4643024.640	316.241	*
4500.000	269186.896	4643028.378	316.160	
4520.000	269167.431	4643032.974	316.060	
4540.000	269147.966	4643037.570	315.960	
4560.000	269128.502	4643042.165	315.860	
4564.313	269124.304	4643043.156	315.838	*
4574.065	269121.916	4643033.701	314.254	*
4580.000	269120.463	4643027.947	314.251	
4582.581	269119.831	4643025.445	314.250	*
4600.000	269102.663	4643028.395	313.481	
4620.000	269082.952	4643031.782	312.598	
4634.106	269069.050	4643034.170	311.975	*
4640.000	269063.267	4643035.309	311.715	
4644.476	269058.875	4643036.174	311.517	*
4660.000	269043.644	4643039.174	311.234	
4673.369	269030.527	4643041.757	310.990	*
4680.000	269024.040	4643043.132	310.869	
4696.581	269008.018	4643047.387	310.566	*
4700.000	269004.748	4643048.384	310.504	
4720.000	268985.616	4643054.214	310.138	
4727.585	268978.361	4643056.425	310.000	*
4740.000	268966.455	4643059.944	309.938	
4760.000	268947.275	4643065.614	309.839	
4780.000	268928.096	4643071.283	309.740	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
4800.000	268908.916	4643076.952	309.641	
4820.000	268889.736	4643082.621	309.542	
4840.000	268870.557	4643088.291	309.443	
4841.960	268868.677	4643088.846	309.433	*
4857.639	268853.013	4643089.521	308.066	*
4860.000	268851.907	4643091.608	308.046	
4878.659	268843.168	4643108.094	307.889	*
4880.000	268841.856	4643108.369	307.878	
4890.653	268831.429	4643110.554	307.788	*
4900.000	268822.323	4643112.658	307.709	
4907.214	268815.357	4643114.534	307.649	*
4920.000	268803.065	4643118.054	307.541	
4933.518	268790.070	4643121.776	307.427	*
4940.000	268783.838	4643123.561	307.210	
4960.000	268764.611	4643129.067	306.538	
4980.000	268745.384	4643134.573	305.867	
5000.000	268726.157	4643140.080	305.196	
5011.692	268714.917	4643143.299	304.804	*
5020.000	268708.149	4643148.117	304.682	
5040.000	268691.855	4643159.715	304.387	
5060.000	268675.562	4643171.314	304.093	
5061.036	268674.718	4643171.914	304.078	*
5080.000	268658.831	4643182.260	303.799	
5080.539	268658.367	4643182.535	303.791	*
5093.556	268647.159	4643189.154	303.599	*
5100.000	268641.610	4643192.431	303.567	
5120.000	268624.389	4643202.602	303.467	
5140.000	268607.168	4643212.772	303.367	
5145.960	268602.036	4643215.803	303.337	*
5160.000	268589.736	4643222.568	303.267	
5160.124	268589.626	4643222.624	303.266	*
5180.000	268571.919	4643231.654	303.167	
5200.000	268554.103	4643240.741	303.067	
5220.000	268536.286	4643249.827	302.967	
5240.000	268518.469	4643258.914	302.867	
5260.000	268500.653	4643268.000	302.767	
5275.891	268486.497	4643275.220	302.688	*
5280.000	268482.853	4643277.119	302.667	
5300.000	268465.635	4643287.282	302.567	
5320.000	268449.369	4643298.909	302.467	
5326.784	268444.090	4643303.169	302.433	*
5326.853	268444.037	4643303.213	302.433	*
5340.000	268439.382	4643315.508	302.724	
5340.959	268439.042	4643316.405	302.745	*
5360.000	268436.551	4643335.283	303.168	
5379.668	268433.979	4643354.782	303.604	*
5380.000	268433.708	4643354.973	303.572	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
5400.000	268417.375	4643366.517	301.624	
5420.000	268401.043	4643378.061	299.677	
5440.000	268384.711	4643389.605	297.730	
5454.564	268372.817	4643398.011	296.312	*
5460.000	268368.342	4643401.095	295.782	
5473.355	268357.045	4643408.215	294.482	*
5480.000	268351.275	4643411.510	294.116	
5490.200	268342.237	4643416.237	293.555	*
5500.000	268333.454	4643420.585	293.015	
5520.000	268315.530	4643429.458	291.915	
5540.000	268297.606	4643438.331	290.814	
5540.049	268297.562	4643438.352	290.811	*
5556.562	268293.695	4643454.406	290.415	*
5560.000	268290.290	4643454.883	290.333	
5580.000	268270.484	4643457.658	289.853	
5580.321	268270.166	4643457.703	289.845	*
5596.000	268254.491	4643458.076	289.469	*
5596.105	268254.386	4643458.079	289.468	*
5600.000	268250.493	4643458.204	289.439	
5602.216	268248.279	4643458.306	289.422	*
5620.000	268230.518	4643459.203	289.288	
5628.789	268221.741	4643459.647	289.221	*
5628.841	268221.689	4643459.641	289.221	*
5636.894	268213.692	4643458.690	287.186	*
5640.000	268213.874	4643455.589	287.170	
5660.000	268215.045	4643435.624	287.071	
5680.000	268216.217	4643415.658	286.971	
5700.000	268217.388	4643395.692	286.871	
5701.749	268217.491	4643393.946	286.862	*
5720.000	268217.833	4643375.703	286.771	
5727.925	268217.529	4643367.784	286.731	*
5733.859	268217.121	4643361.865	284.668	*
5739.221	268216.622	4643356.526	284.532	*
5740.000	268216.539	4643355.752	284.676	
5743.170	268216.175	4643352.603	285.264	*
5748.872	268215.479	4643346.943	286.320	*
5748.877	268215.478	4643346.938	0.000	

3.11. T.5.1

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271845.405	4641016.103	337.426	*
20.000	271825.441	4641017.289	337.298	
40.000	271805.476	4641018.475	337.170	
60.000	271785.511	4641019.661	337.042	
80.000	271765.546	4641020.847	336.914	
100.000	271745.581	4641022.033	336.786	

120.000	271725.617	4641023.219	336.658	
140.000	271705.652	4641024.404	336.529	
157.563	271688.120	4641025.446	336.417	*
160.000	271685.849	4641026.332	336.405	
180.000	271667.219	4641033.605	336.303	
200.000	271648.588	4641040.878	336.202	
220.000	271629.957	4641048.150	336.100	
240.000	271611.326	4641055.423	335.999	
260.000	271592.696	4641062.696	335.897	
280.000	271574.065	4641069.969	335.796	
300.000	271555.434	4641077.242	335.694	
320.000	271536.803	4641084.515	335.593	
324.879	271532.258	4641086.289	335.568	*

3.12. T.5.2

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271837.117	4641362.333	346.901	*
20.000	271852.966	4641374.532	347.746	
40.000	271868.815	4641386.731	348.590	
60.000	271884.664	4641398.930	349.435	
61.179	271885.598	4641399.649	349.485	*
80.000	271900.113	4641411.631	351.394	
80.017	271900.126	4641411.641	351.396	*

3.13. T.5.3

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271743.218	4641479.554	349.503	*
20.000	271723.219	4641479.288	350.112	
39.479	271703.742	4641479.030	350.705	*
40.000	271703.221	4641479.023	350.673	
60.000	271683.223	4641478.757	349.428	
80.000	271663.225	4641478.491	348.184	
100.000	271643.226	4641478.226	346.940	
120.000	271623.228	4641477.960	345.695	
125.455	271617.774	4641477.888	345.356	*
139.051	271604.247	4641479.258	344.510	*
140.000	271603.303	4641479.354	344.505	
160.000	271583.405	4641481.370	344.405	
174.892	271568.588	4641482.871	344.331	*
180.000	271563.642	4641484.147	344.279	
200.000	271544.276	4641489.142	344.077	
207.123	271537.379	4641490.921	344.005	*
220.000	271524.973	4641494.371	343.875	
234.464	271511.204	4641498.795	343.728	*
240.000	271505.970	4641500.599	343.672	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
260.000	271487.062	4641507.117	343.470	
276.020	271471.916	4641512.337	343.308	*
280.000	271467.936	4641512.321	343.288	
300.000	271447.937	4641512.238	343.188	
320.000	271427.937	4641512.155	343.088	
340.000	271407.937	4641512.072	342.988	
360.000	271387.937	4641511.989	342.888	
380.000	271367.937	4641511.906	342.788	
400.000	271347.937	4641511.823	342.688	
420.000	271327.938	4641511.740	342.589	
432.718	271315.220	4641511.687	342.525	*
440.000	271309.738	4641516.481	342.489	
452.907	271300.023	4641524.977	342.424	*
460.000	271292.931	4641525.150	342.388	
471.197	271281.737	4641525.424	342.332	*
480.000	271274.488	4641520.431	342.288	
482.814	271272.171	4641518.835	342.274	*
500.000	271257.622	4641509.685	342.188	
504.163	271254.098	4641507.469	342.167	*
520.000	271238.305	4641506.290	341.356	
540.000	271218.361	4641504.802	340.332	
542.097	271216.270	4641504.646	340.225	*
560.000	271198.442	4641506.287	340.135	
580.000	271178.526	4641508.120	340.036	
600.000	271158.610	4641509.953	339.936	
620.000	271138.694	4641511.786	339.836	
640.000	271118.779	4641513.619	339.736	
660.000	271098.863	4641515.452	339.636	
680.000	271078.947	4641517.285	339.536	
688.711	271070.272	4641518.083	339.492	*
700.000	271060.884	4641524.352	337.985	
709.901	271052.650	4641529.850	336.664	*
720.000	271044.252	4641535.459	336.251	
740.000	271027.619	4641546.565	335.432	
760.000	271010.986	4641557.672	334.614	
780.000	270994.354	4641568.778	333.795	
783.578	270991.378	4641570.765	333.649	*
800.000	270975.035	4641572.378	333.567	
815.875	270959.237	4641573.936	333.488	*
820.000	270955.129	4641574.304	333.467	
840.000	270935.148	4641575.038	333.367	
845.531	270929.618	4641574.932	333.339	*
860.000	270915.156	4641574.481	333.267	
880.000	270895.166	4641573.859	333.167	
893.432	270881.741	4641573.440	333.100	*
900.000	270875.176	4641573.236	332.452	
916.013	270859.170	4641572.737	330.872	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
920.000	270857.813	4641568.988	330.852	
932.072	270853.703	4641557.638	330.792	*
940.000	270846.028	4641559.625	330.752	
960.000	270826.666	4641564.639	330.652	
966.806	270820.078	4641566.345	330.618	*
980.000	270807.305	4641569.653	330.035	
1000.000	270787.944	4641574.666	329.152	
1020.000	270768.582	4641579.680	328.269	
1040.000	270749.221	4641584.693	327.386	
1060.000	270729.859	4641589.707	326.503	
1080.000	270710.498	4641594.721	325.620	
1082.933	270707.659	4641595.456	325.490	*
1082.933	270707.659	4641595.456	325.490	*
1100.000	270694.194	4641605.943	324.964	
1120.000	270678.415	4641618.233	324.347	
1137.921	270664.277	4641629.244	323.795	*
1140.000	270662.631	4641630.514	323.731	
1152.796	270652.253	4641637.997	323.336	*
1160.000	270646.294	4641642.046	323.114	
1180.000	270629.750	4641653.285	322.497	
1200.000	270613.207	4641664.524	321.881	
1220.000	270596.664	4641675.764	321.264	
1233.342	270585.628	4641683.262	320.853	*
1240.000	270580.067	4641686.922	320.648	
1260.000	270562.757	4641696.927	320.031	
1271.372	270552.546	4641701.929	319.680	*
1280.000	270544.705	4641705.531	319.414	
1300.000	270526.532	4641713.881	318.798	
1309.364	270518.023	4641717.791	318.509	*
1320.000	270507.537	4641719.573	318.187	
1340.000	270487.820	4641722.925	317.581	
1340.234	270487.589	4641722.964	317.574	*
1360.000	270468.270	4641727.113	316.975	
1374.708	270454.166	4641731.273	316.529	*
1380.000	270449.140	4641732.932	316.369	
1383.499	270445.817	4641734.029	316.263	*
1400.000	270430.148	4641739.203	316.181	
1420.000	270411.157	4641745.474	316.081	
1440.000	270392.165	4641751.744	315.981	
1460.000	270373.174	4641758.015	315.881	
1462.509	270370.791	4641758.802	315.868	*
1480.000	270354.329	4641764.710	315.921	
1491.443	270343.558	4641768.576	315.955	*

3.14. T.5.3.1

P.K.	Coord. X	Coord. Y	Coord. Z	Código

0.000	271272.171	4641518.835	342.274	*
18.663	271273.431	4641500.214	342.365	*
20.000	271272.095	4641500.181	342.372	
23.055	271269.041	4641500.106	342.387	*

3.15. T.5.3.2

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270394.691	4641835.850	315.868	*
4.874	270399.383	4641834.531	315.724	*
20.000	270396.082	4641819.769	315.277	
40.000	270391.718	4641800.251	314.686	
57.802	270387.834	4641782.878	314.159	*
60.000	270386.420	4641781.195	314.094	
75.682	270376.331	4641769.189	313.631	*
80.000	270374.299	4641765.379	313.503	
87.454	270370.791	4641758.802	313.283	*

3.16. T.5.4

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271775.835	4642075.425	329.376	*
20.000	271768.944	4642056.650	329.544	
40.000	271762.054	4642037.874	329.711	
57.666	271755.968	4642021.289	329.859	*
60.000	271755.164	4642019.098	329.896	
80.000	271748.274	4642000.323	330.209	
100.000	271741.384	4641981.547	330.522	
117.781	271735.258	4641964.854	330.800	*
120.000	271734.494	4641962.771	330.835	
140.000	271727.604	4641943.995	331.148	
160.000	271720.714	4641925.220	331.461	
180.000	271713.824	4641906.444	331.774	
200.000	271706.934	4641887.668	332.087	
206.170	271704.808	4641881.876	332.184	*
213.315	271698.055	4641884.210	332.296	*
220.000	271691.737	4641886.393	332.511	
240.000	271672.834	4641892.926	333.153	
260.000	271653.931	4641899.459	333.796	
266.285	271647.991	4641901.512	333.998	*
280.000	271635.034	4641906.008	334.439	
300.000	271616.139	4641912.565	335.081	
320.000	271597.244	4641919.122	335.724	
323.951	271593.512	4641920.417	335.851	*

3.17. T.5.5

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270685.999	4642146.443	319.977	*
20.000	270666.047	4642145.051	319.877	
40.000	270646.096	4642143.659	319.777	
60.000	270626.144	4642142.266	319.677	
79.624	270606.568	4642140.900	319.579	*
80.000	270606.193	4642140.874	319.561	
100.000	270586.241	4642139.482	318.590	
101.949	270584.297	4642139.346	318.495	*
120.000	270579.483	4642121.949	317.619	
140.000	270574.149	4642102.673	316.649	
159.817	270568.864	4642083.574	315.687	*
160.000	270568.682	4642083.589	315.686	
180.000	270548.752	4642085.263	315.586	
200.000	270528.823	4642086.938	315.486	
220.000	270508.893	4642088.612	315.386	
240.000	270488.963	4642090.287	315.286	
245.542	270483.441	4642090.751	315.258	*

3.18. T.5.6

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271373.096	4642014.344	330.640	*
20.000	271386.988	4642028.731	331.241	
20.081	271387.045	4642028.790	331.243	*

3.19. T.5.7

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269822.938	4642417.841	306.449	*
20.000	269819.197	4642398.194	305.975	
40.000	269815.456	4642378.547	305.501	
51.503	269813.304	4642367.247	305.228	*
60.000	269808.926	4642359.965	305.056	
80.000	269798.621	4642342.824	304.650	
100.000	269788.315	4642325.684	304.244	
120.000	269778.010	4642308.543	303.839	
140.000	269767.704	4642291.403	303.433	
160.000	269757.399	4642274.262	303.028	
163.729	269755.477	4642271.066	302.952	*
175.587	269749.367	4642260.904	302.015	*
180.000	269745.519	4642263.064	301.993	
200.000	269728.081	4642272.856	301.893	
210.379	269719.031	4642277.938	301.841	*

3.20. T.5.8

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270695.883	4642183.708	319.768	*
20.000	270690.755	4642164.377	321.172	
38.554	270685.999	4642146.443	322.475	*

3.21. T.5.9

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269746.557	4642444.573	305.325	*
20.000	269739.211	4642425.971	305.464	
40.000	269731.866	4642407.369	305.604	
45.924	269729.690	4642401.859	305.645	*

3.22. T.5.10

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270406.243	4642470.560	311.522	*
20.000	270397.740	4642452.457	312.441	
40.000	270389.238	4642434.355	313.360	
49.119	270385.361	4642426.101	313.779	*
60.000	270380.735	4642416.252	313.812	
80.000	270372.233	4642398.149	313.872	
100.000	270363.730	4642380.047	313.932	
120.000	270355.228	4642361.944	313.992	
140.000	270346.725	4642343.841	314.052	
160.000	270338.223	4642325.739	314.112	
160.988	270337.803	4642324.844	314.115	*
177.421	270330.817	4642309.970	315.496	*
180.000	270329.720	4642307.636	315.584	
200.000	270321.218	4642289.533	316.269	
220.000	270312.715	4642271.430	316.954	
240.000	270304.213	4642253.328	317.638	
260.000	270295.710	4642235.225	318.323	
273.066	270290.156	4642223.399	318.770	*

3.23. T.5.11

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269687.958	4642481.426	305.819	*
20.000	269669.195	4642488.351	305.710	
40.000	269650.432	4642495.277	305.600	
60.000	269631.670	4642502.203	305.491	
80.000	269612.907	4642509.128	305.381	
100.000	269594.145	4642516.054	305.272	
120.000	269575.382	4642522.980	305.162	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
133.710	269562.520	4642527.727	305.087	*
140.000	269557.212	4642531.102	305.106	
156.017	269543.696	4642539.696	305.154	*
160.000	269539.851	4642540.734	305.166	
180.000	269520.543	4642545.951	305.226	
196.507	269504.607	4642550.256	305.275	*
200.000	269501.242	4642551.193	305.286	
209.458	269492.207	4642553.985	305.314	*
220.000	269482.201	4642557.306	305.346	
240.000	269463.219	4642563.605	305.406	
260.000	269444.237	4642569.904	305.466	
280.000	269425.255	4642576.204	305.526	
287.027	269418.586	4642578.417	305.547	*
300.000	269422.424	4642590.809	305.586	
320.000	269428.342	4642609.914	305.646	
340.000	269434.259	4642629.018	305.706	
343.404	269435.267	4642632.270	305.716	*
343.404	269435.267	4642632.270	305.716	*
360.000	269418.784	4642634.206	305.766	
380.000	269398.921	4642636.538	305.826	
400.000	269379.057	4642638.871	305.886	
409.040	269370.079	4642639.925	305.913	*
414.420	269364.761	4642639.111	305.929	*
420.000	269359.314	4642640.324	305.946	
440.000	269339.792	4642644.670	306.006	
460.000	269320.270	4642649.016	306.066	
480.000	269300.748	4642653.362	306.126	
500.000	269281.226	4642657.709	306.186	
520.000	269261.704	4642662.055	306.246	
540.000	269242.182	4642666.401	306.306	
540.730	269241.469	4642666.560	306.308	*

3.24. T.5.11.2

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269446.575	4642687.484	305.716	*
7.341	269453.649	4642685.520	305.967	*
20.000	269449.518	4642673.554	306.401	
40.000	269442.992	4642654.649	307.086	
56.334	269437.662	4642639.209	307.645	*
60.000	269436.466	4642635.744	307.770	
63.675	269435.267	4642632.270	307.896	*

3.25. T.5.12

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270125.759	4642612.329	308.039	*
20.000	270117.273	4642594.219	308.236	
20.012	270117.268	4642594.208	308.236	*
40.000	270108.787	4642576.108	309.138	
60.000	270100.301	4642557.998	310.040	
80.000	270091.814	4642539.888	310.942	
100.000	270083.328	4642521.777	311.845	
120.000	270074.842	4642503.667	312.747	
124.578	270072.900	4642499.522	312.953	*
136.496	270068.126	4642488.602	313.491	*
140.000	270066.806	4642485.357	313.649	
152.544	270062.082	4642473.736	314.215	*
160.000	270059.274	4642466.829	314.405	
180.000	270051.741	4642448.302	314.914	
200.000	270044.209	4642429.775	315.423	
220.000	270036.676	4642411.247	315.932	
240.000	270029.144	4642392.720	316.441	
244.535	270027.436	4642388.519	316.556	*
260.000	270021.611	4642374.193	317.254	
280.000	270014.079	4642355.665	318.157	
283.404	270012.797	4642352.512	318.311	*

3.26. T.5.13

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	268853.013	4643089.521	308.066	*
19.918	268840.518	4643074.010	306.692	*
20.000	268840.466	4643073.946	306.692	
26.130	268836.621	4643069.172	306.661	*
37.327	268829.386	4643060.628	306.605	*
40.000	268827.598	4643058.641	306.334	
45.077	268824.138	4643054.926	305.819	*
60.000	268813.848	4643044.118	304.305	
73.122	268804.800	4643034.614	302.974	*
80.000	268800.058	4643029.633	302.939	
95.351	268789.472	4643018.515	302.862	*

3.27. T.5.14

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269860.444	4642466.284	307.047	*
20.000	269849.782	4642449.363	307.728	
40.000	269839.119	4642432.442	308.410	
45.635	269836.115	4642427.675	308.602	*

3.28. T.5.16

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269792.019	4642509.581	305.472	*
2.268	269790.119	4642510.819	305.565	*
20.000	269782.119	4642494.994	306.291	
40.000	269773.096	4642477.145	307.111	
60.000	269764.073	4642459.296	307.930	
74.502	269757.530	4642446.354	308.524	*
76.770	269756.507	4642444.330	308.617	*

3.29. T.5.18

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269741.756	4642542.057	307.450	*
20.000	269722.632	4642547.912	308.294	
33.526	269709.698	4642551.871	308.864	*

3.30. T.5.20

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	268870.632	4643107.568	307.890	*
20.000	268850.636	4643107.951	309.465	
27.469	268843.168	4643108.094	310.053	*

3.31. T.5.22

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	268466.128	4643316.118	302.433	*
20.000	268448.859	4643306.030	305.102	
25.584	268444.037	4643303.213	305.847	*

3.32. T.7

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	272501.956	4641000.148	347.452	*
20.000	272504.371	4641020.002	347.805	
40.000	272506.786	4641039.856	348.157	
60.000	272509.201	4641059.709	348.510	
80.000	272511.615	4641079.563	348.862	
100.000	272514.030	4641099.417	349.215	
120.000	272516.445	4641119.270	349.568	
140.000	272518.860	4641139.124	349.920	
147.192	272519.729	4641146.263	350.047	*
160.000	272521.259	4641158.980	350.273	
180.000	272523.648	4641178.836	350.626	
194.680	272525.401	4641193.412	350.885	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
200.000	272525.988	4641198.699	350.979	
220.000	272528.193	4641218.577	351.331	
240.000	272530.398	4641238.455	351.684	
245.049	272530.955	4641243.473	351.773	*
260.000	272532.604	4641258.333	351.818	
280.000	272534.809	4641278.211	351.878	
289.310	272535.836	4641287.464	351.906	*
300.000	272537.179	4641298.069	351.938	
320.000	272540.575	4641317.776	351.998	
340.000	272545.110	4641337.252	352.058	
355.001	272549.250	4641351.669	352.103	*
360.000	272550.734	4641356.443	352.118	
380.000	272556.672	4641375.541	352.178	
400.000	272562.611	4641394.639	352.238	
420.000	272568.549	4641413.737	352.298	
440.000	272574.487	4641432.835	352.358	
460.000	272580.425	4641451.933	352.418	
480.000	272586.363	4641471.031	352.478	
500.000	272592.301	4641490.130	352.538	
514.018	272596.463	4641503.515	352.580	*
520.000	272597.195	4641509.453	351.383	
531.426	272598.593	4641520.792	349.098	*
540.000	272599.518	4641529.317	348.384	
560.000	272601.675	4641549.200	347.974	
580.000	272603.832	4641569.083	347.564	
590.472	272604.961	4641579.494	347.350	*
600.000	272605.989	4641588.967	347.302	
620.000	272608.146	4641608.850	347.202	
640.000	272610.303	4641628.733	347.102	
660.000	272612.460	4641648.617	347.003	
680.000	272614.617	4641668.500	346.903	
699.520	272616.722	4641687.906	346.805	*
700.000	272616.581	4641688.365	346.815	
720.000	272610.683	4641707.475	347.230	
740.000	272604.785	4641726.586	347.645	
760.000	272598.887	4641745.697	348.060	
780.000	272592.989	4641764.807	348.475	
800.000	272587.091	4641783.918	348.890	
820.000	272581.193	4641803.028	349.305	
840.000	272575.295	4641822.139	349.720	
860.000	272569.397	4641841.250	350.135	
880.000	272563.500	4641860.360	350.550	
900.000	272557.602	4641879.471	350.966	
920.000	272551.704	4641898.581	351.381	
938.716	272546.184	4641916.465	351.769	*
940.000	272545.815	4641917.695	351.842	
960.000	272540.064	4641936.850	352.981	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
980.000	272534.312	4641956.005	354.120	
1000.000	272528.561	4641975.160	355.259	
1020.000	272522.810	4641994.316	356.398	
1040.000	272517.058	4642013.471	357.537	
1054.013	272513.029	4642026.892	358.335	*
1060.000	272511.307	4642032.626	358.365	
1080.000	272505.556	4642051.781	358.465	
1096.973	272500.675	4642068.037	358.550	*
1100.000	272499.787	4642070.931	358.351	
1120.000	272493.923	4642090.052	357.039	
1140.000	272488.058	4642109.173	355.726	
1160.000	272482.194	4642128.294	354.413	
1180.000	272476.329	4642147.415	353.100	
1193.225	272472.451	4642160.058	352.232	*
1200.000	272470.465	4642166.535	352.198	
1220.000	272464.600	4642185.656	352.098	
1240.000	272458.736	4642204.777	351.998	
1260.000	272452.871	4642223.898	351.898	
1280.000	272447.007	4642243.019	351.798	
1300.000	272441.142	4642262.140	351.698	
1320.000	272435.278	4642281.261	351.598	
1324.892	272433.843	4642285.938	351.574	*
1336.344	272430.741	4642296.961	351.678	*
1340.000	272428.045	4642299.431	351.711	
1360.000	272413.299	4642312.942	351.894	
1379.530	272398.899	4642326.136	352.073	*
1380.000	272398.503	4642326.389	352.074	
1400.000	272381.654	4642337.165	352.134	
1420.000	272364.806	4642347.941	352.195	
1429.479	272356.820	4642353.048	352.223	*
1440.000	272347.618	4642358.149	352.255	
1460.000	272330.127	4642367.846	352.315	
1480.000	272312.635	4642377.543	352.374	
1500.000	272295.143	4642387.240	352.434	
1520.000	272277.651	4642396.938	352.494	
1540.000	272260.159	4642406.635	352.554	
1560.000	272242.667	4642416.332	352.614	
1572.235	272231.966	4642422.264	352.651	*
1580.000	272224.991	4642425.676	352.740	
1600.000	272207.025	4642434.463	352.970	
1620.000	272189.059	4642443.251	353.200	
1640.000	272171.093	4642452.038	353.430	
1644.187	272167.331	4642453.878	353.478	*
1660.000	272152.972	4642460.497	353.660	
1664.402	272148.922	4642462.221	353.710	*
1680.000	272134.532	4642468.240	353.890	
1700.000	272116.081	4642475.957	354.119	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
1718.422	272099.085	4642483.065	354.331	*
1720.000	272097.632	4642483.679	354.349	
1740.000	272079.600	4642492.316	354.579	
1760.000	272062.390	4642502.493	354.809	
1773.214	272051.535	4642510.024	354.961	*
1780.000	272046.073	4642514.052	354.717	
1800.000	272029.976	4642525.922	353.998	
1820.000	272013.879	4642537.792	353.279	
1840.000	271997.783	4642549.662	352.559	
1860.000	271981.686	4642561.532	351.840	
1880.000	271965.589	4642573.402	351.121	
1892.353	271955.647	4642580.733	350.677	*
1900.000	271949.443	4642585.203	350.402	
1920.000	271932.761	4642596.230	349.683	
1940.000	271915.466	4642606.270	348.964	
1958.975	271898.546	4642614.850	348.281	*
1960.000	271897.619	4642615.288	348.244	
1980.000	271879.538	4642623.839	347.525	
2000.000	271861.458	4642632.389	346.806	
2012.350	271850.293	4642637.668	346.362	*
2020.000	271843.378	4642640.939	346.232	
2040.000	271825.298	4642649.489	345.892	
2043.820	271821.844	4642651.122	345.827	*
2060.000	271807.385	4642658.380	345.552	
2064.424	271803.493	4642660.483	345.477	*
2080.000	271789.836	4642667.972	345.213	
2099.756	271772.513	4642677.472	344.877	*
2100.000	271772.319	4642677.620	344.873	
2118.029	271757.964	4642688.527	344.566	*
2120.000	271756.084	4642689.118	344.539	
2140.000	271737.004	4642695.115	344.263	
2160.000	271717.924	4642701.112	343.987	
2180.000	271698.845	4642707.109	343.711	
2200.000	271679.765	4642713.106	343.435	
2220.000	271660.685	4642719.103	343.159	
2240.000	271641.605	4642725.100	342.884	
2258.169	271624.272	4642730.548	342.633	*
2260.000	271622.526	4642731.097	342.624	
2280.000	271603.446	4642737.094	342.524	
2288.082	271595.736	4642739.517	342.483	*
2300.000	271584.278	4642742.794	342.424	
2313.071	271571.536	4642745.696	342.358	*
2320.000	271564.738	4642747.042	342.324	
2340.000	271545.119	4642750.925	342.224	
2360.000	271525.500	4642754.808	342.123	
2380.000	271505.880	4642758.692	342.023	
2400.000	271486.261	4642762.575	341.923	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
2420.000	271466.642	4642766.459	341.823	
2440.000	271447.022	4642770.342	341.723	
2460.000	271427.403	4642774.226	341.623	
2465.000	271422.498	4642775.197	341.598	*
2480.000	271407.784	4642778.109	341.523	
2489.025	271398.930	4642779.862	341.478	*
2500.000	271388.117	4642781.734	341.423	
2520.000	271368.231	4642783.806	341.323	
2537.177	271351.063	4642784.195	341.237	*
2540.000	271348.240	4642784.153	341.223	
2560.000	271328.242	4642783.856	341.123	
2580.000	271308.245	4642783.559	341.023	
2600.000	271288.247	4642783.262	340.923	
2605.277	271282.970	4642783.183	340.897	*
2620.000	271268.390	4642785.225	340.823	
2640.000	271248.583	4642787.998	340.723	
2660.000	271228.776	4642790.771	340.623	
2680.000	271208.969	4642793.544	340.523	
2700.000	271189.162	4642796.317	340.423	
2720.000	271169.355	4642799.090	340.323	*
2740.000	271149.549	4642801.863	340.911	
2760.000	271129.742	4642804.636	341.499	
2780.000	271109.935	4642807.409	342.087	
2785.131	271104.854	4642808.121	342.237	*
2800.000	271090.205	4642810.659	342.674	
2807.784	271082.611	4642812.365	342.903	*
2820.000	271070.740	4642815.246	343.262	
2830.778	271060.265	4642817.787	343.579	*
2840.000	271051.061	4642818.351	343.298	
2860.000	271031.098	4642819.573	342.690	
2880.000	271011.136	4642820.796	342.082	
2900.000	270991.173	4642822.018	341.473	
2920.000	270971.210	4642823.241	340.865	
2940.000	270951.248	4642824.463	340.257	
2944.365	270946.891	4642824.730	340.124	*
2960.000	270931.285	4642825.685	340.046	
2980.000	270911.323	4642826.908	339.946	
3000.000	270891.360	4642828.130	339.846	
3020.000	270871.397	4642829.353	339.746	
3027.176	270864.234	4642829.792	339.710	*
3040.000	270851.419	4642830.217	339.646	
3060.000	270831.441	4642829.447	339.546	
3062.180	270829.269	4642829.258	339.535	*
3080.000	270811.524	4642827.626	339.446	
3100.000	270791.608	4642825.795	339.346	
3119.915	270771.776	4642823.971	339.247	*
3120.000	270771.694	4642823.992	339.246	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
3140.000	270752.334	4642829.011	338.917	
3160.000	270732.974	4642834.029	338.589	
3180.000	270713.614	4642839.047	338.261	
3197.744	270696.437	4642843.499	337.970	*
3200.000	270694.228	4642843.044	337.768	
3220.000	270674.640	4642839.005	335.975	
3229.524	270665.312	4642837.082	335.121	*
3240.000	270655.052	4642834.967	334.808	
3260.000	270635.464	4642830.928	334.210	
3260.187	270635.281	4642830.891	334.204	*
3280.000	270616.417	4642836.950	333.612	
3300.000	270597.375	4642843.067	333.014	
3320.000	270578.334	4642849.184	332.416	
3340.000	270559.292	4642855.301	331.818	
3360.000	270540.250	4642861.418	331.220	
3368.438	270532.217	4642863.998	330.968	*
3380.000	270520.948	4642866.587	331.003	
3400.000	270501.456	4642871.065	331.063	
3420.000	270481.964	4642875.543	331.123	
3438.386	270464.044	4642879.659	331.178	*
3440.000	270462.473	4642880.026	331.183	
3441.982	270460.546	4642880.492	331.189	*
3456.018	270447.029	4642884.264	331.512	*
3460.000	270443.228	4642885.452	331.604	
3480.000	270424.138	4642891.416	332.065	
3500.000	270405.048	4642897.380	332.526	
3514.258	270391.439	4642901.631	332.855	*
3520.000	270385.937	4642903.275	332.987	
3537.429	270369.010	4642907.411	333.389	*
3540.000	270366.491	4642907.926	333.448	
3560.000	270346.896	4642911.931	333.909	
3580.000	270327.301	4642915.936	334.370	
3600.000	270307.707	4642919.942	334.831	
3620.000	270288.112	4642923.947	335.292	
3640.000	270268.517	4642927.952	335.753	
3660.000	270248.922	4642931.957	336.214	
3672.373	270236.799	4642934.435	336.499	*

3.33. T.7.1

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	272329.661	4641174.397	350.047	*
20.000	272349.028	4641169.404	348.820	
25.302	272354.162	4641168.080	348.495	*
40.000	272368.395	4641164.411	348.560	
60.000	272387.761	4641159.418	348.649	
80.000	272407.128	4641154.425	348.737	

80.352	272407.469	4641154.337	348.739	*
100.000	272426.682	4641150.253	348.826	
120.000	272446.525	4641147.803	348.915	
134.816	272461.322	4641147.110	348.980	*
140.000	272466.505	4641147.035	349.003	
160.000	272486.503	4641146.745	349.092	
180.000	272506.501	4641146.455	349.180	
193.229	272519.729	4641146.263	349.239	*

3.34. T.7.2

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	272356.820	4642353.048	352.223	*
20.000	272360.573	4642372.693	352.607	
40.000	272364.325	4642392.338	352.990	
60.000	272368.078	4642411.982	353.374	
80.000	272371.831	4642431.627	353.758	
100.000	272375.584	4642451.272	354.141	
120.000	272379.336	4642470.917	354.525	
126.041	272380.470	4642476.850	354.641	*
140.000	272383.089	4642490.561	355.400	
160.000	272386.842	4642510.206	356.487	
180.000	272390.594	4642529.851	357.574	
200.000	272394.347	4642549.496	358.662	
220.000	272398.100	4642569.141	359.749	
240.000	272401.852	4642588.785	360.836	
260.000	272405.605	4642608.430	361.923	
273.344	272408.109	4642621.537	362.649	*
280.000	272409.453	4642628.056	363.010	
291.158	272412.128	4642638.887	363.617	*
299.633	272414.511	4642647.019	364.310	*
300.000	272414.621	4642647.370	364.340	
320.000	272420.599	4642666.455	365.975	
340.000	272426.578	4642685.541	367.610	
360.000	272432.556	4642704.627	369.245	
380.000	272438.534	4642723.712	370.880	
398.000	272443.915	4642740.889	372.352	*
400.000	272444.513	4642742.798	372.376	
420.000	272450.491	4642761.883	372.617	
440.000	272456.469	4642780.969	372.858	
460.000	272462.447	4642800.055	373.099	
476.091	272467.257	4642815.410	373.293	*
480.000	272468.426	4642819.140	373.521	
500.000	272474.404	4642838.226	374.688	
519.397	272480.202	4642856.736	375.819	*
520.000	272479.690	4642857.055	375.798	
540.000	272462.723	4642867.643	375.100	
560.000	272445.755	4642878.230	374.402	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
580.000	272428.787	4642888.818	373.704	
600.000	272411.819	4642899.405	373.006	
620.000	272394.851	4642909.993	372.308	
640.000	272377.884	4642920.580	371.610	
660.000	272360.916	4642931.167	370.911	
677.896	272345.733	4642940.641	370.287	*
680.000	272343.943	4642941.747	370.213	
700.000	272326.445	4642951.420	369.515	
702.649	272324.066	4642952.585	369.423	*
706.428	272320.663	4642954.228	369.291	*
720.000	272308.441	4642960.129	369.223	
728.787	272300.528	4642963.949	369.179	*
736.958	272300.976	4642972.108	369.138	*
740.000	272298.110	4642973.129	369.123	
760.000	272279.270	4642979.839	369.023	
780.000	272260.429	4642986.549	368.923	
800.000	272241.588	4642993.259	368.823	
820.000	272222.747	4642999.969	368.723	
840.000	272203.906	4643006.679	368.623	
860.000	272185.066	4643013.389	368.523	
880.000	272166.225	4643020.099	368.423	
900.000	272147.384	4643026.809	368.323	
901.315	272146.145	4643027.250	368.317	*
910.196	272137.723	4643030.067	368.272	*
920.000	272128.367	4643032.996	368.223	
940.000	272109.280	4643038.970	368.123	
960.000	272090.194	4643044.945	368.023	
980.000	272071.107	4643050.919	367.923	
992.054	272059.603	4643054.520	367.863	*

3.35. T.7.3

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	272500.675	4642068.037	358.550	*
20.000	272480.796	4642065.836	357.696	
40.000	272460.918	4642063.635	356.841	
60.000	272441.039	4642061.434	355.987	
71.927	272429.184	4642060.121	355.477	*
80.000	272421.304	4642061.872	355.194	
100.000	272401.780	4642066.209	354.494	
120.000	272382.256	4642070.547	353.794	
140.000	272362.732	4642074.884	353.094	
148.256	272354.672	4642076.675	352.805	*
156.242	272347.437	4642073.295	352.525	*

3.36. T.7.5

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	272196.597	4642387.566	352.651	*
17.583	272210.329	4642398.547	351.199	*
20.000	272211.958	4642400.333	350.999	
32.104	272220.116	4642409.275	350.000	*
40.000	272225.438	4642415.108	349.733	
49.687	272231.966	4642422.264	349.405	*

3.37. T.7.7

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270532.217	4642863.998	330.968	*
20.000	270527.404	4642844.586	330.435	
40.000	270522.591	4642825.174	329.901	
60.000	270517.779	4642805.761	329.368	
74.201	270514.361	4642791.978	328.989	*
74.201	270514.361	4642791.978	328.989	*
80.000	270510.425	4642787.719	328.768	
100.000	270496.851	4642773.031	328.006	
107.916	270491.477	4642767.218	327.705	*
107.916	270491.477	4642767.218	0.000	*

3.38. T.H10

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	269485.266	4642989.787	317.665	*
20.000	269486.244	4643009.763	316.600	
20.699	269486.278	4643010.462	316.563	*

3.39. T.H22

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270272.371	4642227.770	310.916	*
17.610	270264.254	4642212.142	311.676	*

3.40. T.H24

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270358.961	4642188.464	313.925	*
8.497	270360.015	4642196.895	313.342	*
20.000	270361.443	4642208.309	313.284	
21.298	270361.604	4642209.597	313.278	*

3.41. T.H43

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270521.863	4641728.803	318.509	*
5.384	270520.090	4641723.719	318.088	*
11.663	270518.023	4641717.791	318.057	*

3.42. T.H51

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271568.588	4641482.871	344.331	*
13.260	271564.563	4641470.236	344.963	*

3.43. T.H53

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271743.218	4641479.554	349.503	*
12.506	271738.483	4641467.979	351.049	*

3.44. T.H59

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271490.994	4640495.411	342.195	*
11.044	271495.320	4640505.572	342.709	*
20.000	271504.020	4640503.447	343.126	
25.243	271509.113	4640502.203	343.370	*

3.45. T.H60

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271655.751	4640333.505	350.214	*
11.583	271656.191	4640321.931	349.250	*
20.000	271656.511	4640313.520	349.149	
21.575	271656.571	4640311.946	349.130	*

3.46. T.H64

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271399.029	4640292.759	337.813	*
15.832	271403.631	4640307.907	338.802	*

3.47. T.H65

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	271296.378	4640376.265	344.691	*
9.347	271288.087	4640371.950	343.151	*

3.48. T.H74

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270538.158	4640452.771	325.504	*
12.772	270536.519	4640440.104	325.800	*

3.49. T.H75

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	270280.269	4640467.187	318.650	*
19.492	270281.278	4640447.721	317.900	*

3.50. T.H95

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	272546.184	4641916.465	351.769	*
20.000	272526.462	4641919.786	353.592	
21.571	272524.913	4641920.047	353.735	*
27.978	272518.595	4641921.111	0.000	*

3.51. TUBERÍA IMPULSION

P.K.	Coord. X	Coord. Y	Coord. Z	Código
0.000	272501.956	4641000.148	347.452	*
20.000	272481.956	4641000.148	347.120	
40.000	272461.956	4641000.148	346.789	
60.000	272441.956	4641000.148	346.457	
80.000	272421.956	4641000.148	346.126	
81.747	272420.209	4641000.148	346.097	*
100.000	272404.454	4640990.931	345.794	
120.000	272387.191	4640980.831	345.463	
140.000	272369.929	4640970.732	345.131	
160.000	272352.666	4640960.633	344.800	
180.000	272335.403	4640950.533	344.468	
198.934	272319.060	4640940.972	344.154	*
200.000	272318.055	4640940.617	344.158	
220.000	272299.197	4640933.958	344.228	
240.000	272280.338	4640927.298	344.298	
260.000	272261.479	4640920.638	344.368	
280.000	272242.621	4640913.978	344.439	
300.000	272223.762	4640907.319	344.509	
320.000	272204.903	4640900.659	344.579	
340.000	272186.045	4640893.999	344.649	
360.000	272167.186	4640887.340	344.719	
371.297	272156.534	4640883.578	344.759	*
378.040	272149.978	4640881.999	344.783	*
380.000	272148.074	4640881.535	344.790	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
400.000	272128.807	4640876.180	344.860	
420.000	272109.884	4640869.715	344.930	
440.000	272091.368	4640862.161	345.000	
460.000	272073.323	4640853.544	345.071	
480.000	272055.809	4640843.893	345.141	
484.998	272051.522	4640841.324	345.158	*
500.000	272038.711	4640833.517	345.211	
520.000	272021.632	4640823.111	345.281	
540.000	272004.552	4640812.704	345.352	
560.000	271987.473	4640802.298	345.422	
565.696	271982.609	4640799.334	345.442	*
580.000	271981.864	4640785.049	345.789	
600.000	271980.824	4640765.076	346.275	
620.000	271979.783	4640745.103	346.761	
633.270	271979.093	4640731.851	347.083	*
640.000	271976.039	4640725.854	346.719	
660.000	271966.962	4640708.032	345.636	
680.000	271957.886	4640690.211	344.553	
700.000	271948.810	4640672.389	343.471	
717.097	271941.051	4640657.153	342.545	*
720.000	271939.744	4640654.561	342.388	
740.000	271931.344	4640636.414	341.305	
760.000	271924.012	4640617.810	340.222	
780.000	271917.773	4640598.810	339.140	
788.095	271915.564	4640591.023	338.701	*
800.000	271912.450	4640579.532	338.057	
820.000	271907.218	4640560.229	336.974	
830.939	271904.357	4640549.670	336.382	*
840.000	271900.005	4640541.723	336.427	
860.000	271890.398	4640524.182	336.528	
868.887	271886.129	4640516.387	336.572	*
880.000	271882.995	4640505.725	336.846	
900.000	271877.356	4640486.537	337.338	
920.000	271871.717	4640467.348	337.830	
929.201	271869.122	4640458.521	338.057	*
940.000	271866.077	4640448.160	338.564	
946.754	271864.173	4640441.679	338.881	*
960.000	271860.194	4640429.046	339.503	
980.000	271853.273	4640410.285	340.442	
1000.000	271845.273	4640391.958	341.381	
1000.734	271844.960	4640391.294	341.416	*
1020.000	271836.705	4640373.886	342.321	
1040.000	271828.137	4640355.814	343.260	
1052.424	271822.814	4640344.589	343.843	*
1060.000	271824.936	4640337.316	344.199	
1080.000	271830.538	4640318.116	345.138	
1100.000	271836.140	4640298.917	346.077	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
1120.000	271841.742	4640279.718	347.016	
1140.000	271847.344	4640260.518	347.955	
1145.924	271849.004	4640254.831	348.233	*
1160.000	271860.634	4640246.903	348.537	
1180.000	271877.160	4640235.637	348.969	
1200.000	271893.686	4640224.372	349.401	
1211.575	271903.250	4640217.852	349.651	*
1220.000	271910.152	4640213.022	349.834	
1240.000	271926.049	4640200.890	350.266	
1260.000	271941.214	4640187.855	350.698	
1280.000	271955.595	4640173.960	351.130	
1290.843	271963.048	4640166.085	351.364	*
1300.000	271969.236	4640159.335	351.562	
1303.793	271971.799	4640156.540	351.644	*
1320.000	271967.939	4640140.799	351.994	
1340.000	271963.175	4640121.375	352.426	
1348.497	271961.151	4640113.122	352.610	*
1360.000	271964.394	4640102.086	352.066	
1380.000	271970.034	4640082.898	351.121	
1384.368	271971.266	4640078.706	350.914	*
1400.000	271966.223	4640063.911	350.175	
1420.000	271959.770	4640044.980	349.229	
1440.000	271953.317	4640026.050	348.283	
1460.000	271946.865	4640007.119	347.338	
1463.653	271945.686	4640003.662	347.165	*
1480.000	271956.786	4639991.661	347.214	
1500.000	271970.366	4639976.978	347.274	
1520.000	271983.946	4639962.296	347.334	
1540.000	271997.526	4639947.613	347.394	
1560.000	272011.107	4639932.930	347.454	
1580.000	272024.687	4639918.248	347.514	
1600.000	272038.267	4639903.565	347.574	
1620.000	272051.847	4639888.882	347.634	
1631.201	272059.452	4639880.660	347.668	*
1640.000	272065.509	4639874.277	347.694	
1660.000	272079.869	4639860.360	347.754	
1680.000	272095.013	4639847.301	347.814	
1700.000	272110.891	4639835.144	347.874	
1720.000	272127.448	4639823.930	347.934	
1740.000	272144.628	4639813.697	347.994	
1748.505	272152.109	4639809.651	348.020	*
1760.000	272162.287	4639804.309	348.054	
1780.000	272179.996	4639795.013	348.114	
1800.000	272197.704	4639785.718	348.174	
1815.899	272211.782	4639778.328	348.222	*
1820.000	272210.818	4639774.342	348.063	
1836.655	272206.905	4639758.153	347.418	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
1840.000	272206.119	4639754.902	347.289	
1860.000	272201.419	4639735.462	346.515	
1880.000	272196.720	4639716.022	345.741	
1895.115	272193.168	4639701.330	345.156	*
1900.000	272192.020	4639696.582	345.179	
1920.000	272187.320	4639677.142	345.271	
1940.000	272182.621	4639657.702	345.363	
1960.000	272177.921	4639638.262	345.456	
1980.000	272173.221	4639618.822	345.548	
2000.000	272168.522	4639599.382	345.640	
2007.544	272166.749	4639592.049	345.675	*
2020.000	272163.822	4639579.942	346.129	
2040.000	272159.122	4639560.502	346.859	
2060.000	272154.423	4639541.062	347.589	
2080.000	272149.723	4639521.622	348.318	
2100.000	272145.023	4639502.182	349.048	
2115.533	272141.373	4639487.084	349.615	*
2120.000	272140.352	4639482.735	349.778	
2140.000	272136.474	4639463.118	350.507	
2160.000	272133.743	4639443.308	351.237	
2180.000	272132.168	4639423.373	351.967	
2200.000	272131.753	4639403.380	352.696	
2211.339	272132.035	4639392.045	353.110	*
2220.000	272132.392	4639383.391	353.426	
2240.000	272133.218	4639363.409	354.156	
2258.460	272133.981	4639344.964	354.829	*
2260.000	272134.044	4639343.426	354.766	
2280.000	272134.870	4639323.443	353.943	
2300.000	272135.696	4639303.460	353.120	
2320.000	272136.522	4639283.477	352.298	
2340.000	272137.348	4639263.494	351.475	
2360.000	272138.174	4639243.511	350.653	
2365.537	272138.402	4639237.978	350.425	*
2365.537	272138.402	4639237.978	350.425	*
2380.000	272130.104	4639226.133	350.131	
2400.000	272118.629	4639209.753	349.724	
2420.000	272107.153	4639193.372	349.317	
2440.000	272095.678	4639176.992	348.910	
2460.000	272084.203	4639160.612	348.504	
2480.000	272072.727	4639144.231	348.097	
2500.000	272061.252	4639127.851	347.690	
2520.000	272049.777	4639111.470	347.283	
2540.000	272038.301	4639095.090	346.876	
2550.000	272032.564	4639086.900	346.673	*
2560.000	272026.826	4639078.710	347.556	
2578.571	272016.171	4639063.500	349.195	*
2580.000	272016.507	4639062.111	349.199	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
2600.000	272021.209	4639042.671	349.259	
2620.000	272025.912	4639023.232	349.319	
2628.255	272027.853	4639015.209	349.344	*
2640.000	272033.970	4639005.182	349.379	
2660.000	272044.385	4638988.108	349.439	
2680.000	272054.801	4638971.035	349.499	
2693.702	272061.937	4638959.337	349.540	*
2700.000	272065.240	4638953.975	349.559	
2720.000	272075.071	4638936.561	349.619	
2740.000	272083.873	4638918.605	349.679	
2740.663	272084.147	4638918.002	349.681	*
2760.000	272092.415	4638900.522	349.739	
2780.000	272100.967	4638882.442	349.799	
2800.000	272109.518	4638864.363	349.859	
2820.000	272118.070	4638846.283	349.919	
2836.912	272125.302	4638830.995	349.970	*
2840.000	272127.733	4638829.091	349.979	
2860.000	272143.481	4638816.762	350.039	
2880.000	272159.228	4638804.433	350.099	
2900.000	272174.976	4638792.103	350.159	
2920.000	272190.723	4638779.774	350.219	
2932.557	272200.610	4638772.033	350.257	*
2940.000	272197.337	4638765.348	350.697	
2960.000	272188.544	4638747.385	351.879	
2980.000	272179.750	4638729.422	353.061	
3000.000	272170.956	4638711.459	354.243	
3020.000	272162.162	4638693.496	355.425	
3040.000	272153.369	4638675.533	356.607	
3060.000	272144.575	4638657.570	357.789	
3075.244	272137.872	4638643.878	358.689	*
3080.000	272135.811	4638639.592	358.971	
3100.000	272127.796	4638621.271	360.152	
3120.000	272120.860	4638602.516	361.334	
3140.000	272115.026	4638583.389	362.516	
3149.469	272112.653	4638574.222	363.076	*
3160.000	272110.312	4638563.955	363.902	
3180.000	272106.736	4638544.280	365.471	
3183.388	272106.244	4638540.928	365.736	*
3200.000	272103.912	4638524.481	367.039	
3214.414	272101.888	4638510.209	368.170	*
3220.000	272101.103	4638504.679	368.686	
3240.000	272098.295	4638484.877	370.533	
3260.000	272095.487	4638465.075	372.380	
3280.000	272092.679	4638445.273	374.227	
3281.761	272092.431	4638443.530	374.390	*
3300.000	272102.801	4638428.525	376.902	
3319.440	272113.854	4638412.533	379.579	*

P.K.	Coord. X	Coord. Y	Coord. Z	Código
3320.000	272113.774	4638411.980	379.597	
3340.000	272110.822	4638392.199	380.226	
3360.000	272107.870	4638372.418	380.856	
3380.000	272104.918	4638352.637	381.485	
3397.532	272102.331	4638335.297	382.037	*
3400.000	272100.667	4638333.474	382.115	
3420.000	272087.187	4638318.699	382.744	
3427.177	272082.349	4638313.397	382.970	*
3440.000	272070.983	4638307.462	384.454	
3460.000	272053.254	4638298.206	386.769	
3461.987	272051.492	4638297.286	386.999	*
3480.000	272036.377	4638287.489	389.084	
3500.000	272019.594	4638276.611	391.399	
3520.000	272002.811	4638265.732	393.713	
3540.000	271986.028	4638254.854	396.028	
3541.225	271985.000	4638254.188	396.170	*
3560.000	271967.317	4638247.878	399.188	
3580.000	271948.481	4638241.157	402.403	
3589.799	271939.251	4638237.864	403.978	*
3600.000	271934.066	4638229.080	404.466	
3620.000	271923.899	4638211.857	405.421	
3639.110	271914.185	4638195.400	406.335	*
3640.000	271913.734	4638194.633	406.377	
3660.000	271904.119	4638177.099	407.333	
3669.492	271899.916	4638168.588	407.787	*
3680.000	271895.394	4638159.103	408.289	
3700.000	271886.786	4638141.050	409.244	
3707.460	271883.575	4638134.317	409.601	*
3720.000	271878.178	4638122.998	409.639	
3740.000	271869.570	4638104.945	409.699	
3760.000	271860.962	4638086.892	409.759	
3780.000	271852.354	4638068.839	409.819	
3783.498	271850.849	4638065.682	409.829	*
3800.000	271853.947	4638049.473	409.879	
3820.000	271857.703	4638029.829	409.939	
3840.000	271861.458	4638010.185	409.999	
3860.000	271865.213	4637990.540	410.059	
3880.000	271868.968	4637970.896	410.119	
3900.000	271872.724	4637951.252	410.179	
3920.000	271876.479	4637931.607	410.239	
3940.000	271880.234	4637911.963	410.299	
3950.645	271882.233	4637901.507	410.331	*
3960.000	271884.114	4637892.344	410.359	
3977.531	271888.302	4637875.323	410.411	*
3980.000	271888.952	4637872.941	410.419	
4000.000	271894.219	4637853.647	410.479	
4020.000	271899.485	4637834.353	410.539	

P.K.	Coord. X	Coord. Y	Coord. Z	Código
4040.000	271904.752	4637815.058	410.599	
4060.000	271910.018	4637795.764	410.659	
4080.000	271915.285	4637776.470	410.719	
4100.000	271920.552	4637757.176	410.779	
4120.000	271925.818	4637737.882	410.839	
4140.000	271931.085	4637718.588	410.899	
4160.000	271936.351	4637699.294	410.959	
4180.000	271941.618	4637680.000	411.019	
4200.000	271946.884	4637660.705	411.079	
4214.280	271950.645	4637646.929	411.122	*
4220.000	271946.496	4637642.991	411.139	
4220.336	271946.253	4637642.760	411.140	*

4. LEVANTAMIENTO TOPOGRÁFICO DE LA BALSA DE CAPTACIÓN, ESTACION DE BOMBEO Y PARQUE SOLAR

Número	Coord. X	Coord. Y	Coord. Z	Código
7600	272398.847	4640985.708	348.244	
7601	272407.777	4640991.400	348.385	
7602	272417.430	4640996.903	348.480	
7603	272420.295	4640989.259	349.580	
7604	272428.781	4640999.503	349.358	
7605	272438.038	4640999.097	349.337	
7606	272448.703	4640998.709	349.363	
7607	272458.180	4641001.910	349.292	
7608	272468.019	4641006.561	349.303	
7609	272477.611	4641011.236	349.299	
7610	272490.185	4641017.864	349.465	
7611	272489.140	4641015.071	349.557	
7612	272490.719	4641015.038	350.473	
7613	272498.404	4641019.175	350.326	
7614	272505.257	4641023.556	350.387	
7615	272511.703	4641027.055	350.502	
7616	272512.332	4641027.476	350.807	
7617	272516.451	4641029.594	350.774	
7618	272523.714	4641032.619	350.793	
7619	272524.643	4641033.158	351.296	
7620	272523.728	4641033.303	350.788	TC
7621	272522.597	4641036.756	350.696	TC
7622	272518.543	4641047.573	350.761	TC
7623	272514.700	4641057.372	350.749	TC
7624	272510.884	4641066.624	350.671	TC
7625	272507.463	4641074.639	350.828	TC
7626	272504.291	4641076.604	350.914	TC
7627	272502.142	4641076.848	350.876	TC
7628	272501.359	4641069.193	350.775	TC
7629	272500.896	4641062.460	350.723	TC
7630	272500.178	4641054.159	350.717	TC
7631	272498.694	4641043.851	350.425	TC
7632	272496.712	4641032.591	350.440	TC
7633	272493.401	4641022.308	350.463	TC
7634	272490.117	4641013.104	350.419	TC
7635	272486.262	4641002.785	350.673	TC
7636	272481.907	4640991.940	350.439	TC
7637	272477.796	4640981.643	350.397	TC
7638	272473.807	4640971.159	350.437	TC
7639	272469.894	4640961.078	350.425	TC
7640	272466.045	4640951.058	350.402	TC
7641	272462.076	4640940.961	350.392	TC
7642	272458.358	4640930.976	350.444	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
7643	272454.758	4640921.007	350.511	TC
7644	272451.931	4640913.820	350.494	TC
7645	272449.937	4640908.117	350.522	TC
7646	272452.198	4640906.270	350.657	TC
7647	272458.268	4640905.870	350.491	TC
7648	272468.689	4640904.679	350.538	TC
7649	272477.200	4640912.610	350.566	TC
7650	272480.518	4640922.494	350.398	TC
7651	272483.682	4640932.073	350.456	TC
7652	272487.219	4640942.434	350.383	TC
7653	272490.998	4640953.154	350.423	TC
7654	272494.269	4640962.604	350.419	TC
7655	272497.932	4640973.071	350.449	TC
7656	272501.447	4640983.369	350.413	TC
7657	272505.170	4640993.792	350.378	TC
7658	272508.689	4641004.191	350.330	TC
7659	272511.427	4641014.759	350.407	TC
7660	272511.897	4641025.686	350.429	TC
7661	272509.341	4641036.375	350.447	TC
7662	272505.854	4641045.783	350.507	TC
7663	272506.037	4641047.123	350.820	TC
7664	272507.810	4641043.639	350.763	TC
7665	272510.693	4641035.526	350.806	TC
7666	272512.717	4641024.710	350.745	TC
7667	272512.064	4641013.641	350.819	TC
7668	272508.940	4641001.738	350.831	TC
7669	272504.855	4640990.008	350.779	TC
7670	272501.539	4640980.881	350.752	TC
7671	272497.967	4640970.676	350.727	TC
7672	272494.502	4640960.551	350.741	TC
7673	272490.508	4640949.082	350.748	TC
7674	272487.082	4640938.933	350.798	TC
7675	272483.752	4640928.893	350.812	TC
7676	272480.324	4640919.003	350.894	TC
7677	272477.874	4640911.689	350.979	TC
7678	272475.742	4640904.392	351.056	TC
7679	272494.420	4640901.026	351.372	TC
7680	272497.426	4640909.299	350.976	TC
7681	272500.289	4640920.083	350.809	TC
7682	272503.233	4640930.855	350.817	TC
7683	272505.912	4640940.240	350.826	TC
7684	272508.874	4640951.023	350.765	TC
7685	272511.690	4640961.743	350.771	TC
7686	272514.302	4640972.031	350.821	TC
7687	272517.652	4640984.755	350.750	TC
7688	272520.335	4640995.617	350.689	TC
7689	272522.957	4641006.061	350.767	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
7690	272524.078	4641012.809	350.692	TC
7691	272524.875	4641019.466	350.783	TC
7692	272524.918	4641025.627	350.771	TC
8744	272508.215	4641228.223	353.523	
8745	272506.207	4641215.296	353.470	
8746	272504.378	4641204.558	353.471	
8747	272503.276	4641191.302	353.680	
8748	272504.056	4641189.045	352.092	
8749	272503.772	4641180.348	352.006	
8750	272502.967	4641169.637	352.216	
8751	272503.047	4641167.336	351.235	
8752	272502.222	4641160.799	351.190	
8753	272500.943	4641150.219	351.167	
8754	272500.219	4641145.682	350.401	
8755	272499.058	4641136.310	350.225	
8756	272498.880	4641129.533	350.219	
8757	272498.605	4641123.338	350.209	
8758	272492.802	4641125.040	350.199	
8759	272480.952	4641130.336	350.057	
8760	272470.505	4641134.260	350.083	
8761	272459.363	4641137.844	350.054	
8762	272449.833	4641140.736	350.012	
8763	272437.756	4641144.891	350.174	
8764	272435.936	4641145.514	350.808	
8765	272424.351	4641149.786	350.682	
8766	272415.561	4641152.391	350.539	
8767	272404.911	4641154.758	350.625	
8781	272505.162	4641140.926	350.612	PT
8782	272505.183	4641136.386	350.457	PT
8783	272505.076	4641130.230	350.376	PT
8784	272503.994	4641121.619	350.266	PT
8785	272502.447	4641112.112	350.064	PT
8786	272501.260	4641101.537	349.462	PT
8787	272499.976	4641088.473	349.466	PT
8788	272499.472	4641076.776	349.457	PT
8789	272498.893	4641067.869	349.472	PT
8790	272498.449	4641057.165	349.402	PT
8791	272497.340	4641046.203	349.393	PT
8792	272496.041	4641037.301	349.417	PT
8793	272494.173	4641029.866	349.411	PT
8794	272491.803	4641022.102	349.484	PT
8795	272489.076	4641014.252	349.481	PT
8796	272485.583	4641005.613	349.443	PT
8797	272482.585	4640998.779	349.440	PT
8798	272479.201	4640989.589	349.442	PT
8799	272476.125	4640981.130	349.465	PT
8800	272473.098	4640973.202	349.449	PT

Número	Coord. X	Coord. Y	Coord. Z	Código
8801	272470.019	4640965.033	349.469	PT
8802	272466.710	4640956.628	349.475	PT
8803	272463.657	4640948.756	349.433	PT
8804	272460.654	4640940.911	349.474	PT
8805	272457.750	4640933.257	349.430	PT
8806	272454.742	4640925.321	349.382	PT
8807	272451.866	4640917.690	349.543	PT
8808	272450.213	4640912.707	350.054	PT
8809	272447.226	4640906.586	350.442	PT
8810	272444.657	4640907.191	350.078	PT
8811	272418.037	4640950.991	349.406	
8812	272418.403	4640958.950	349.350	
8813	272419.219	4640965.691	349.387	
8814	272420.334	4640974.138	349.439	
8815	272421.556	4640985.021	349.387	
8816	272422.772	4640999.225	349.418	
8817	272423.135	4641006.027	349.452	
8818	272424.487	4641018.406	349.447	
8819	272426.137	4641033.470	349.414	
8820	272428.188	4641047.844	349.348	
8821	272429.290	4641057.054	349.377	
8822	272430.399	4641067.657	349.371	
8823	272431.454	4641078.131	349.397	
8824	272432.622	4641090.710	349.400	
8825	272434.317	4641104.497	349.430	
8826	272435.509	4641117.043	349.467	
8827	272436.063	4641127.363	349.801	
8828	272437.147	4641134.617	350.334	
8829	272437.734	4641146.009	350.295	
8830	272438.497	4641156.082	350.431	
8831	272438.628	4641163.080	351.135	
8832	272439.019	4641171.723	351.274	
8833	272439.384	4641178.484	351.354	
8834	272438.866	4641182.732	351.883	
8835	272436.812	4641191.936	351.961	
8836	272436.419	4641203.294	352.186	
8837	272435.839	4641207.230	353.722	
8838	272435.276	4641214.899	353.784	
8839	272434.355	4641226.440	353.705	
9000	272720.784	4640990.508	356.145	CAMI
9001	272725.642	4640993.344	356.195	CAMI
9038	272726.952	4641002.088	356.433	CAMI
9039	272720.437	4641002.839	356.453	CAMI
9040	272714.415	4641003.744	355.350	FONDO
9041	272714.317	4640982.717	354.956	TC
9042	272714.743	4640979.916	354.521	TC
9043	272716.696	4640973.157	354.559	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
9044	272717.901	4640964.038	354.647	TC
9045	272718.762	4640955.147	354.575	TC
9046	272719.005	4640946.056	354.685	TC
9047	272717.414	4640939.979	354.611	TC
9048	272711.756	4640932.557	354.599	TC
9049	272707.332	4640926.695	354.786	TC
9050	272701.374	4640920.899	354.836	TC
9051	272693.207	4640913.046	354.732	TC
9052	272685.142	4640906.495	354.500	TC
9053	272677.369	4640899.423	354.635	TC
9054	272667.665	4640891.833	354.685	TC
9055	272657.155	4640883.858	354.511	TC
9056	272648.947	4640881.119	354.931	TC
9057	272642.310	4640877.477	354.880	TC
9058	272642.570	4640876.579	354.831	CAMI
9059	272640.327	4640876.048	354.829	CAMI
9060	272640.126	4640873.580	354.567	CAMI
9061	272643.523	4640873.823	354.306	CAMI
9062	272639.750	4640876.441	354.753	TC
9063	272639.505	4640879.201	354.778	TC
9064	272636.861	4640878.997	353.258	TC
9065	272636.362	4640878.025	353.298	TC
9066	272634.429	4640878.016	353.310	TC
9067	272625.590	4640877.591	353.304	TC
9068	272618.426	4640878.094	354.159	TC
9069	272608.643	4640879.529	353.338	TC
9070	272595.974	4640882.304	353.226	TC
9071	272586.737	4640884.735	353.243	TC
9072	272579.638	4640886.170	352.523	TC
9073	272571.482	4640888.386	352.196	TC
9074	272554.547	4640891.576	352.535	TC
9075	272544.611	4640893.109	352.077	TC
9076	272532.836	4640895.141	351.840	TC
9077	272514.811	4640898.365	351.962	TC
9078	272513.420	4640902.381	351.936	TC
9079	272514.243	4640908.882	351.891	TC
9080	272517.976	4640919.200	351.938	TC
9081	272520.812	4640922.696	351.873	TC
9082	272525.963	4640928.505	351.885	TC
9083	272531.608	4640934.610	351.867	TC
9084	272536.337	4640940.013	351.840	TC
9085	272541.530	4640946.624	351.830	TC
9086	272544.753	4640952.646	351.842	TC
9087	272546.361	4640959.294	351.815	TC
9088	272546.437	4640968.938	351.820	TC
9089	272546.209	4640977.253	351.806	TC
9090	272545.761	4640987.176	351.760	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
9091	272544.908	4640998.625	351.783	TC
9092	272544.400	4641008.492	351.757	TC
9093	272543.781	4641018.325	351.821	TC
9094	272543.179	4641026.484	351.723	TC
9095	272541.630	4641036.196	351.804	TC
9096	272539.809	4641043.599	351.760	TC
9097	272536.277	4641052.212	351.812	TC
9098	272532.068	4641061.965	351.785	TC
9099	272526.355	4641074.811	351.804	TC
9100	272523.031	4641082.341	351.826	TC
9101	272519.970	4641089.168	351.820	TC
9102	272516.655	4641096.638	351.851	TC
9103	272514.166	4641102.392	351.894	TC
9104	272511.406	4641108.692	351.800	TC
9105	272508.976	4641114.192	351.803	TC
9106	272506.888	4641118.267	351.925	TC
9107	272506.798	4641123.543	351.866	TC
9108	272507.273	4641129.612	351.805	TC
9109	272507.802	4641134.602	351.816	TC
9110	272508.225	4641140.040	352.007	TC
9111	272511.036	4641143.109	352.533	TC
9112	272512.179	4641146.921	352.743	TC
9113	272511.869	4641151.197	352.601	TC
9114	272511.306	4641158.987	352.638	TC
9115	272511.670	4641169.031	352.651	TC
9116	272512.291	4641177.147	352.723	TC
9117	272513.430	4641181.861	353.092	TC
9118	272513.526	4641186.224	353.430	TC
9119	272514.300	4641191.286	353.288	TC
9120	272514.797	4641200.281	353.300	TC
9121	272515.969	4641206.357	353.622	CABLE
9122	272520.497	4641214.923	353.919	CABLE
9123	272524.049	4641200.654	353.854	CABLE
9124	272529.844	4641196.627	353.840	CABLE
9125	272539.457	4641190.001	353.877	CABLE
9126	272548.623	4641183.233	353.997	CABLE
9127	272556.208	4641178.200	353.901	CABLE
9128	272560.400	4641175.025	353.856	CABLE
9129	272562.828	4641173.778	354.613	CABLE
9130	272567.445	4641170.694	354.512	CABLE
9131	272578.028	4641163.433	354.441	CABLE
9132	272586.102	4641158.035	354.456	CABLE
9133	272592.637	4641153.783	354.519	CABLE
9134	272602.896	4641147.157	354.544	CABLE
9135	272607.132	4641143.217	355.357	CABLE
9136	272615.061	4641137.879	355.372	CABLE
9137	272623.194	4641132.510	355.482	CABLE

Número	Coord. X	Coord. Y	Coord. Z	Código
9138	272632.210	4641126.242	355.607	CABLE
9139	272641.501	4641119.752	355.564	CABLE
9140	272650.472	4641113.586	355.589	CABLE
9141	272655.476	4641111.025	355.667	CABLE
9142	272659.595	4641110.823	356.434	TORRE
9143	272662.737	4641115.146	356.259	TORRE
9144	272667.111	4641112.197	356.521	TORRE
9145	272664.203	4641107.865	356.418	TORRE
9146	272653.285	4641119.396	355.659	TC
9147	272657.893	4641107.305	355.659	TC
9148	272665.702	4641090.753	355.743	TC
9149	272671.436	4641078.206	355.723	TC
9150	272676.661	4641066.868	355.731	TC
9151	272681.777	4641055.206	355.643	TC
9152	272679.790	4641052.025	355.706	TC
9153	272678.825	4641046.341	356.061	TC
9154	272679.346	4641043.316	356.183	TC
9155	272677.588	4641041.161	356.243	TC
9156	272673.293	4641039.280	356.307	TC
9157	272668.701	4641038.566	356.109	TC
9158	272664.231	4641040.035	356.126	TC
9159	272660.136	4641039.944	356.066	TC
9160	272655.183	4641037.286	356.046	TC
9161	272654.671	4641038.006	355.984	TC
9162	272655.675	4641033.933	356.007	CT
9163	272660.915	4641036.561	356.084	CT
9164	272661.388	4641032.031	355.983	CT
9165	272656.987	4641029.716	356.082	CT
9166	272659.075	4641020.026	355.933	CT
9167	272663.247	4641019.427	355.861	CT
9168	272664.617	4641010.554	355.809	CT
9169	272661.040	4641007.968	355.920	CT
9170	272663.297	4641000.240	355.863	CT
9171	272667.197	4641000.878	355.826	CT
9172	272668.362	4640998.385	355.934	CT
9173	272664.805	4640994.991	355.925	CT
9174	272665.889	4640993.402	355.761	CT
9175	272668.943	4640992.668	355.899	CT
9176	272671.594	4640995.880	355.961	CT
9177	272676.360	4640994.153	355.993	CT
9178	272677.612	4640990.553	355.872	CT
9179	272684.785	4640988.637	355.914	CT
9180	272686.635	4640990.819	355.830	CT
9181	272694.521	4640988.588	355.943	CT
9182	272694.784	4640986.034	355.893	CT
9183	272700.401	4640984.801	355.840	CT
9184	272702.178	4640987.057	355.897	CT

Número	Coord. X	Coord. Y	Coord. Z	Código
9185	272707.798	4640986.553	355.805	CT
9186	272708.965	4640984.115	355.667	CT
9187	272712.815	4640984.878	355.768	CT
9188	272715.118	4640984.848	355.827	CT
9189	272712.992	4640987.782	355.825	CT
9190	272717.960	4640999.788	356.281	
9191	272724.113	4641001.778	356.453	
9247	272712.021	4640980.874	354.813	TC
9248	272707.063	4640980.908	354.793	TC
9249	272698.265	4640983.486	354.702	TC
9250	272686.366	4640985.894	354.581	TC
9251	272676.633	4640988.325	354.650	TC
9252	272669.035	4640989.173	354.607	TC
9253	272665.356	4640989.393	354.765	TC
9254	272663.201	4640990.735	354.749	TC
9255	272661.678	4640994.476	354.632	TC
9256	272661.019	4640997.318	354.703	TC
9257	272659.285	4641003.916	354.573	TC
9258	272657.665	4641015.725	354.591	TC
9259	272654.931	4641027.190	354.562	TC
9260	272651.773	4641037.980	354.532	TC
9261	272647.323	4641051.461	354.539	TC
9262	272642.058	4641065.328	354.523	TC
9263	272636.830	4641078.509	354.532	TC
9264	272630.749	4641092.071	354.540	TC
9265	272624.593	4641104.588	354.527	TC
9266	272618.431	4641117.255	354.525	TC
9267	272612.539	4641129.336	354.574	TC
9268	272606.004	4641141.384	354.519	TC
9269	272600.217	4641152.419	354.562	TC
9270	272594.216	4641162.701	354.528	TC
9271	272590.286	4641169.302	354.614	TC
9272	272591.627	4641170.080	355.227	TC
9273	272596.894	4641161.951	355.291	TC
9274	272601.207	4641154.372	355.285	TC
9275	272606.912	4641143.861	355.336	TC
9276	272610.926	4641136.568	355.342	TC
9277	272616.049	4641126.877	355.491	TC
9278	272621.132	4641117.010	355.518	TC
9279	272627.108	4641104.989	355.520	TC
9280	272631.712	4641095.705	355.524	TC
9281	272637.426	4641083.799	355.654	TC
9282	272641.762	4641072.727	355.466	TC
9283	272645.338	4641063.797	355.455	TC
9284	272648.741	4641054.837	355.473	TC
9285	272652.074	4641044.870	355.697	TC
9286	272667.408	4641032.755	354.474	F-BALSA

Número	Coord. X	Coord. Y	Coord. Z	Código
9287	272666.328	4641032.140	354.394	F-BALSA
9288	272665.631	4641031.100	354.326	F-BALSA
9289	272664.864	4641030.065	354.171	F-BALSA
9290	272633.868	4641032.607	353.872	TC
9291	272630.010	4641044.104	353.901	TC
9292	272625.895	4641056.853	353.925	TC
9293	272620.533	4641069.792	353.893	TC
9294	272614.935	4641081.942	353.858	TC
9295	272607.691	4641096.527	353.853	TC
9296	272602.822	4641107.330	353.867	TC
9297	272596.203	4641120.650	353.904	TC
9298	272589.067	4641132.608	353.834	TC
9299	272582.141	4641143.970	353.860	TC
9300	272575.302	4641154.496	353.884	TC
9301	272567.871	4641165.357	353.862	TC
9302	272560.557	4641174.749	353.875	TC
9303	272551.155	4641185.315	353.875	TC
9304	272542.385	4641194.571	353.860	TC
9305	272535.116	4641202.781	353.885	TC
9306	272529.983	4641208.718	353.814	TC
9307	272531.309	4641209.341	354.582	TC
9308	272538.544	4641201.283	354.691	TC
9309	272546.793	4641192.140	354.675	TC
9310	272554.928	4641183.317	354.599	TC
9311	272563.332	4641173.627	354.524	TC
9312	272570.318	4641164.298	354.588	TC
9313	272577.581	4641153.756	354.564	TC
9314	272583.893	4641143.875	354.581	TC
9315	272590.274	4641133.414	354.599	TC
9316	272596.744	4641122.113	354.553	TC
9317	272602.483	4641111.173	354.534	TC
9318	272607.114	4641101.465	354.548	TC
9319	272612.447	4641090.096	354.491	TC
9320	272617.942	4641078.647	354.556	TC
9321	272622.757	4641067.724	354.544	TC
9322	272627.369	4641056.429	354.575	TC
9323	272630.825	4641046.004	354.559	TC
9324	272634.131	4641035.131	354.534	TC
9325	272636.926	4641025.127	354.544	TC
9326	272636.112	4641024.819	353.864	TC
9327	272639.328	4641015.859	354.468	TC
9328	272638.926	4641014.970	354.082	TC
9329	272641.439	4641006.295	354.508	TC
9330	272640.542	4641005.815	353.961	TC
9331	272642.542	4640999.190	354.602	TC
9332	272642.792	4640986.062	354.708	TC
9333	272643.115	4640972.116	354.703	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
9334	272642.873	4640959.327	354.672	TC
9335	272642.571	4640946.954	354.622	TC
9336	272642.056	4640937.073	354.604	TC
9337	272641.431	4640923.659	354.648	TC
9338	272640.841	4640911.595	354.685	TC
9339	272639.755	4640898.135	354.692	TC
9340	272639.365	4640887.085	354.729	TC
9341	272639.371	4640881.506	354.811	TC
9342	272636.434	4640881.117	353.186	TC
9343	272637.129	4640892.973	353.210	TC
9344	272637.756	4640906.979	353.311	TC
9345	272638.578	4640920.720	353.246	TC
9346	272639.451	4640934.073	353.245	TC
9347	272640.146	4640947.055	353.231	TC
9348	272640.569	4640962.553	353.249	TC
9349	272640.796	4640973.609	353.233	TC
9350	272640.262	4640984.754	353.243	TC
9351	272639.376	4640992.446	353.290	TC
9352	272637.828	4640994.638	353.271	TC
9353	272634.570	4640996.889	353.297	TC
9354	272639.695	4641001.248	353.926	TC
9355	272638.006	4640999.627	354.102	TC
9356	272635.703	4640999.164	353.988	TC
9357	272630.268	4640999.853	353.988	TC
9358	272629.958	4640999.053	353.426	TC
9359	272624.750	4641000.718	354.038	TC
9360	272624.326	4640999.840	353.370	TC
9361	272622.191	4641000.978	354.048	TC
9362	272620.578	4641000.194	353.382	TC
9363	272619.871	4641000.797	353.441	TC
9364	272620.834	4641001.452	354.077	TC
9365	272619.709	4641003.268	353.929	TC
9366	272618.509	4641003.312	353.287	TC
9367	272618.630	4641006.145	353.932	TC
9368	272617.530	4641006.588	353.196	TC
9369	272615.420	4641016.485	353.234	TC
9370	272616.049	4641016.584	354.032	TC
9371	272612.658	4641029.021	353.209	TC
9372	272613.155	4641029.403	353.951	TC
9373	272609.694	4641039.606	353.257	TC
9374	272610.233	4641039.807	353.999	TC
9375	272605.981	4641050.220	353.276	TC
9376	272606.486	4641050.663	353.960	TC
9377	272601.008	4641061.292	353.267	TC
9378	272601.497	4641061.614	353.930	TC
9379	272595.948	4641071.349	353.216	TC
9380	272596.377	4641071.790	353.925	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
9381	272590.330	4641081.686	353.231	TC
9382	272590.891	4641081.989	353.940	TC
9383	272584.693	4641091.933	353.228	TC
9384	272584.648	4641092.926	353.887	TC
9385	272577.978	4641103.186	353.245	TC
9386	272578.335	4641103.557	353.900	TC
9387	272571.995	4641113.494	353.219	TC
9388	272572.444	4641113.870	353.875	TC
9389	272565.779	4641123.889	353.242	TC
9390	272566.266	4641124.394	353.977	TC
9391	272559.520	4641134.318	353.219	TC
9392	272560.144	4641134.594	353.908	TC
9393	272554.043	4641143.440	353.157	TC
9394	272554.483	4641143.653	353.866	TC
9395	272548.676	4641153.015	353.192	TC
9396	272549.408	4641153.071	353.959	TC
9397	272541.834	4641165.368	353.225	TC
9398	272542.295	4641165.884	353.991	TC
9399	272535.779	4641175.438	353.208	TC
9400	272536.515	4641175.768	353.854	TC
9401	272530.170	4641185.063	353.250	TC
9402	272530.725	4641185.390	353.952	TC
9403	272525.079	4641193.432	353.339	TC
9404	272525.750	4641193.742	353.907	TC
9405	272513.961	4641190.800	353.329	TC
9406	272513.690	4641187.107	353.324	TC
9407	272516.344	4641181.279	353.237	TC
9408	272520.528	4641172.007	353.306	TC
9409	272526.016	4641161.584	353.314	TC
9410	272531.277	4641152.154	353.334	TC
9411	272536.771	4641141.852	353.317	TC
9412	272541.845	4641131.843	353.295	TC
9413	272547.415	4641120.857	353.307	TC
9414	272553.263	4641109.232	353.257	TC
9415	272557.153	4641102.177	353.194	TC
9416	272562.089	4641093.072	353.222	TC
9417	272567.340	4641083.727	353.207	TC
9418	272571.828	4641075.158	353.220	TC
9419	272576.424	4641066.328	353.199	TC
9420	272580.833	4641057.453	353.168	TC
9421	272583.811	4641047.624	353.180	TC
9422	272585.935	4641037.255	353.182	TC
9423	272587.258	4641026.547	353.188	TC
9424	272588.228	4641016.194	353.152	TC
9425	272588.977	4641005.143	353.070	TC
9426	272589.599	4640996.848	353.217	TC
9427	272589.113	4640983.437	353.316	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
9428	272589.520	4640973.719	353.194	TC
9429	272589.600	4640962.097	353.115	TC
9430	272589.791	4640953.040	353.151	TC
9431	272589.960	4640942.285	353.166	TC
9432	272589.868	4640931.839	353.148	TC
9433	272589.213	4640921.493	353.062	TC
9434	272587.761	4640910.592	353.155	TC
9435	272586.012	4640900.823	353.155	TC
9436	272584.606	4640892.858	353.252	TC
9437	272584.961	4640889.116	353.185	TC
9438	272582.502	4640888.707	352.452	TC
9439	272583.063	4640894.652	352.057	TC
9440	272584.971	4640904.486	352.099	TC
9441	272587.093	4640916.594	352.211	TC
9442	272588.051	4640927.573	352.293	TC
9443	272588.045	4640937.089	352.239	TC
9444	272588.196	4640946.612	352.249	TC
9445	272587.934	4640957.280	352.277	TC
9446	272587.715	4640965.633	352.202	TC
9447	272587.596	4640973.588	352.255	TC
9448	272587.364	4640982.655	352.390	TC
9449	272586.511	4640986.267	352.308	TC
9450	272586.436	4640996.908	352.479	TC
9451	272586.608	4641003.108	352.642	TC
9452	272586.903	4641011.161	352.558	TC
9453	272586.259	4641020.129	352.481	TC
9454	272585.447	4641030.047	352.498	TC
9455	272583.515	4641040.913	352.456	TC
9456	272581.237	4641050.836	352.392	TC
9457	272577.155	4641061.474	352.471	TC
9458	272573.108	4641069.102	352.444	TC
9459	272568.334	4641077.972	352.406	TC
9460	272563.254	4641087.696	352.417	TC
9461	272558.475	4641096.392	352.457	TC
9462	272553.732	4641105.258	352.402	TC
9463	272548.493	4641114.879	352.429	TC
9464	272544.141	4641123.865	352.385	TC
9465	272539.719	4641132.490	352.416	TC
9466	272534.349	4641142.904	352.349	TC
9467	272529.559	4641151.652	352.376	TC
9468	272524.181	4641161.010	352.391	TC
9469	272519.486	4641169.991	352.485	TC
9470	272516.142	4641176.616	352.630	TC
9471	272513.909	4641180.212	352.791	TC
9472	272513.046	4641143.560	352.615	TC
9473	272517.557	4641132.979	352.485	TC
9474	272521.929	4641122.637	352.586	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
9475	272525.637	4641113.905	352.520	TC
9476	272529.522	4641104.865	352.464	TC
9477	272533.350	4641095.861	352.454	TC
9478	272537.385	4641086.981	352.487	TC
9479	272541.468	4641077.728	352.421	TC
9480	272545.626	4641068.543	352.535	TC
9481	272549.710	4641058.978	352.417	TC
9482	272554.225	4641049.044	352.467	TC
9483	272558.167	4641039.822	352.401	TC
9484	272561.660	4641030.512	352.424	TC
9485	272564.528	4641019.978	352.402	TC
9486	272566.426	4641010.493	352.387	TC
9487	272567.888	4641000.925	352.325	TC
9488	272568.755	4640990.044	352.244	TC
9489	272569.096	4640980.372	352.274	TC
9490	272568.584	4640970.595	352.215	TC
9491	272567.615	4640959.714	352.333	TC
9492	272566.433	4640950.307	352.219	TC
9493	272565.042	4640940.759	352.248	TC
9494	272563.744	4640930.918	352.219	TC
9495	272562.202	4640920.763	352.265	TC
9496	272561.362	4640912.727	352.251	TC
9497	272560.694	4640908.201	352.337	TC
9498	272558.326	4640899.029	352.413	TC
9499	272554.247	4640898.311	352.201	TC
9500	272550.344	4640899.461	352.025	TC
9501	272550.366	4640900.114	352.099	ALI-EDI
9502	272556.200	4640898.982	352.319	ALI-EDI
9503	272558.303	4640899.775	352.406	ALI-EDI
9504	272549.694	4640901.362	352.101	ALI-EDI
9505	272549.079	4640902.984	351.897	TC
9506	272550.001	4640909.311	351.726	TC
9507	272551.119	4640912.807	351.736	TC
9508	272554.219	4640915.039	351.698	TC
9509	272557.403	4640916.369	351.758	TC
9510	272551.188	4640913.435	351.718	ALI-EDI
9511	272552.901	4640914.145	351.758	ALI-EDI
9512	272558.707	4640913.085	352.176	ALI-EDI
9513	272559.007	4640911.972	352.172	ALI-EDI
9514	272559.466	4640919.458	351.757	TC
9515	272561.083	4640926.844	351.760	TC
9516	272562.929	4640936.703	351.738	TC
9517	272564.621	4640948.260	351.727	TC
9518	272565.740	4640957.030	351.730	TC
9519	272566.906	4640967.099	351.719	TC
9520	272567.601	4640977.507	351.696	TC
9521	272567.305	4640988.825	351.696	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
9522	272566.116	4640998.818	351.641	TC
9523	272564.945	4641008.535	351.735	TC
9524	272562.934	4641017.966	351.657	TC
9525	272560.287	4641028.000	351.665	TC
9526	272557.289	4641036.849	351.731	TC
9527	272553.908	4641045.343	351.719	TC
9528	272549.117	4641055.887	351.760	TC
9529	272544.089	4641066.975	351.794	TC
9530	272539.364	4641077.813	351.751	TC
9531	272534.568	4641088.636	351.738	TC
9532	272529.301	4641100.489	351.758	TC
9533	272524.514	4641110.707	351.690	TC
9534	272519.985	4641121.480	351.733	TC
9535	272516.389	4641130.591	351.716	TC
9536	272513.583	4641136.258	351.794	TC
9537	272512.161	4641138.289	351.969	TC
9538	272510.024	4641139.862	352.009	TC
9539	272505.318	4641109.823	351.475	TC
9540	272504.425	4641103.478	351.378	TC
9541	272504.193	4641095.790	351.311	TC
9542	272503.194	4641087.863	351.432	TC
9543	272503.554	4641083.934	351.441	TC
9544	272505.227	4641081.405	351.173	TC
9545	272507.824	4641076.844	351.287	TC
9546	272511.538	4641068.990	351.272	TC
9547	272514.967	4641061.037	351.265	TC
9548	272518.544	4641051.730	351.279	TC
9549	272522.571	4641041.371	351.247	TC
9550	272525.185	4641031.708	351.293	TC
9551	272526.115	4641021.771	351.213	TC
9552	272525.342	4641012.517	351.238	TC
9553	272523.134	4641001.794	351.296	TC
9554	272520.812	4640992.010	351.207	TC
9555	272518.047	4640981.303	351.265	TC
9556	272515.557	4640972.089	351.259	TC
9557	272513.017	4640962.654	351.234	TC
9558	272510.634	4640953.128	351.222	TC
9559	272508.072	4640943.822	351.174	TC
9560	272505.032	4640932.897	351.301	TC
9561	272502.476	4640923.588	351.220	TC
9562	272500.096	4640914.452	351.336	TC
9563	272498.254	4640907.797	351.285	TC
9564	272497.519	4640903.362	351.354	TC
9565	272499.995	4640899.513	351.465	TC
9566	272509.921	4640898.492	351.356	TC
9567	272510.676	4640900.721	351.461	TC
9568	272511.939	4640905.123	351.315	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
9569	272513.624	4640912.502	351.174	TC
9570	272515.750	4640918.301	351.195	TC
9571	272519.210	4640923.508	351.185	TC
9572	272524.446	4640929.088	351.226	TC
9573	272530.869	4640935.867	351.223	TC
9574	272537.672	4640943.652	351.156	TC
9575	272541.246	4640948.966	351.146	TC
9576	272543.722	4640954.438	351.129	TC
9577	272545.110	4640961.961	351.162	TC
9578	272545.134	4640968.393	351.182	TC
9579	272544.503	4640980.052	351.189	TC
9580	272544.060	4640990.504	351.214	TC
9581	272543.418	4641000.755	351.191	TC
9582	272542.801	4641011.277	351.162	TC
9583	272542.147	4641021.929	351.151	TC
9584	272540.992	4641032.310	351.122	TC
9585	272538.436	4641042.547	351.099	TC
9586	272534.636	4641052.191	351.018	TC
9587	272530.237	4641062.617	351.163	TC
9588	272525.981	4641071.969	351.116	TC
9589	272521.670	4641081.412	351.028	TC
9590	272517.554	4641090.781	351.085	TC
9591	272513.516	4641099.951	351.114	TC
9592	272510.667	4641105.969	351.169	TC
9593	272507.737	4641108.352	351.342	TC
9594	272615.088	4640990.117	353.036	Z
9595	272615.639	4640971.668	353.008	Z
9596	272615.437	4640953.256	353.008	Z
9597	272614.865	4640934.896	353.022	Z
9598	272613.561	4640916.490	353.066	Z
9599	272612.517	4640898.613	353.010	Z
9600	272612.230	4640889.418	353.036	Z
9601	272655.112	4640898.467	354.480	Z
9602	272659.346	4640911.212	354.466	Z
9603	272665.136	4640929.168	354.508	Z
9604	272670.557	4640945.874	354.534	Z
9605	272675.129	4640962.411	354.519	Z
9606	272681.892	4640973.624	354.477	Z
9607	272702.763	4640980.387	354.798	OLIVOS
9608	272702.726	4640974.607	354.746	OLIVOS
9609	272703.067	4640964.718	354.659	OLIVOS
9610	272704.193	4640952.954	354.616	OLIVOS
9611	272705.078	4640941.755	354.534	OLIVOS
9612	272705.852	4640933.886	354.672	OLIVOS
9613	272707.561	4640929.214	354.738	OLIVOS
9614	272722.084	4640940.311	356.431	CT
9615	272723.163	4640940.751	356.277	CT

Número	Coord. X	Coord. Y	Coord. Z	Código
9616	272722.065	4640941.883	356.072	CT
9617	272727.560	4640942.886	355.282	CT
9638	272726.994	4640948.971	355.777	PT
9639	272721.462	4640951.130	355.707	CT
9640	272719.982	4640971.355	355.889	CT
9641	272727.091	4640972.859	355.886	Z
9643	272715.244	4640985.102	355.832	CT
9644	272708.343	4640988.956	354.441	F-BALSA
9645	272709.838	4640989.635	354.426	F-BALSA
9646	272711.092	4640991.811	354.469	F-BALSA
9647	272711.305	4640993.501	354.439	F-BALSA
9648	272714.072	4640993.078	355.755	CT
9649	272713.837	4640996.551	356.149	CT
9650	272711.389	4641003.163	355.963	CT
9651	272710.606	4641004.254	356.289	CT
9652	272686.493	4641043.269	355.611	CT
9653	272678.240	4641040.905	356.296	CT
9654	272670.470	4641046.248	356.553	Z
9655	272667.384	4641053.546	356.395	Z
9656	272663.849	4641062.072	355.728	Z
9657	272722.288	4641001.554	356.363	Z
9658	272727.210	4641009.489	356.553	CARRASCA
9675	272723.281	4640931.852	353.470	CAMI
9676	272723.311	4640927.190	353.437	CAMI
9677	272727.277	4640931.175	353.463	CAMI
11197	272501.956	4641000.148	350.670	Insertado
11287	272436.685	4640908.117	350.100	Insertado
11288	272431.048	4640909.393	350.000	Insertado
11289	272423.656	4640911.891	350.000	Insertado
11290	272418.630	4640914.957	350.000	Insertado
11291	272417.914	4640943.642	349.510	Insertado
11292	272416.259	4640935.696	349.610	Insertado
11293	272416.174	4640929.093	349.710	Insertado
11294	272416.852	4640919.528	349.850	Insertado
11295	272715.717	4641003.553	356.450	Insertado
11296	272716.861	4641004.019	356.450	Insertado

5. LEVANTAMIENTO TOPOGRÁFICO DE LA BALSA ELEVADA

Número	Coord. X	Coord. Y	Coord. Z	Código
485	271958.255	4637626.853	416.992	CAMI
486	271958.473	4637617.934	416.985	CAMI
487	271958.913	4637608.077	417.037	CAMI
488	271959.817	4637595.355	416.927	CAMI
489	271961.020	4637585.308	416.813	CAMI
490	271963.141	4637571.825	416.709	CAMI
491	271965.587	4637560.389	416.638	CAMI
492	271969.432	4637544.061	416.492	CAMI
493	271973.354	4637527.546	416.477	CAMI
494	271976.798	4637514.323	416.363	CAMI
495	271981.726	4637497.516	416.189	CAMI
496	271985.932	4637482.275	415.954	CAMI
497	271989.914	4637465.504	415.673	CAMI
498	271993.640	4637449.170	415.385	CAMI
499	272000.237	4637441.383	415.111	CAMI
500	271998.125	4637452.992	415.272	CAMI
501	271995.007	4637467.937	415.443	CAMI
502	271991.253	4637483.348	415.810	CAMI
503	271988.267	4637495.093	415.962	CAMI
504	271984.442	4637508.134	416.073	CAMI
505	271980.206	4637522.365	416.272	CAMI
506	271975.956	4637537.134	416.374	CAMI
507	271971.333	4637553.523	416.469	CAMI
508	271967.827	4637569.422	416.559	CAMI
509	271965.674	4637584.507	416.612	CAMI
510	271964.106	4637603.330	416.828	CAMI
511	271963.295	4637619.211	416.917	CAMI
512	271962.713	4637633.473	417.044	CAMI
513	271961.337	4637646.364	417.159	CAMI
514	271959.767	4637655.473	417.218	CAMI
515	271953.142	4637662.906	417.282	CAMI
516	271954.551	4637657.364	417.248	CAMI
517	271955.787	4637653.834	417.097	CAMI
518	271957.051	4637645.036	416.997	CAMI
519	271957.744	4637632.954	417.017	CAMI
520	271958.246	4637621.053	417.021	CAMI
521	271959.072	4637607.119	417.036	CAMI
522	271960.514	4637588.877	416.856	CAMI
526	272000.983	4637408.675	414.855	TC
527	271998.268	4637421.153	415.299	FITA
528	271997.494	4637419.937	415.045	TC
529	271996.934	4637422.873	415.150	TC
530	271994.193	4637437.293	415.355	TC
531	271991.580	4637452.262	415.478	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
532	271988.696	4637466.464	415.713	TC
533	271984.509	4637483.410	415.867	TC
534	271980.526	4637497.473	416.085	TC
535	271975.973	4637513.316	416.264	TC
536	271972.010	4637528.053	416.360	TC
537	271968.930	4637539.997	416.498	TC
538	271964.970	4637555.283	416.570	TC
539	271963.081	4637564.975	416.716	TC
540	271961.290	4637573.996	416.679	TC
541	271959.513	4637580.700	416.796	TC
542	271958.487	4637588.186	416.863	TC
543	271958.309	4637595.949	416.980	TC
544	271958.142	4637605.708	417.108	TC
545	271957.202	4637621.529	417.148	TC
546	271956.882	4637628.624	417.146	TC
547	271956.162	4637637.669	417.218	TC
548	271955.688	4637644.939	417.246	TC
549	271953.301	4637650.147	417.255	TC
550	271944.781	4637651.306	417.286	TC
551	271930.016	4637651.736	417.163	TC
552	271917.891	4637652.401	417.026	TC
553	271905.365	4637653.213	417.046	TC
554	271889.154	4637654.346	416.855	TC
555	271875.898	4637655.141	416.890	TC
556	271860.665	4637656.351	416.654	TC
557	271844.340	4637657.315	416.684	TC
558	271832.375	4637658.222	416.620	TC
559	271820.510	4637659.160	416.798	TC
560	271809.521	4637659.830	416.754	TC
561	271794.597	4637660.709	416.918	TC
562	271777.710	4637661.717	416.836	TC
563	271764.973	4637662.642	416.805	TC
564	271755.017	4637662.871	416.794	TC
565	271747.244	4637663.074	416.722	TC
566	271744.529	4637662.127	416.638	TC
567	271746.574	4637657.804	416.611	TC
568	271750.580	4637653.009	416.670	TC
569	271757.175	4637645.709	416.627	TC
570	271761.299	4637640.776	416.597	TC
571	271765.261	4637633.290	416.548	TC
572	271768.628	4637625.333	416.442	TC
573	271772.198	4637616.007	416.395	TC
574	271774.576	4637605.354	416.190	TC
575	271774.635	4637600.023	416.092	TC
576	271774.158	4637595.504	416.123	FITA
577	271773.862	4637590.535	416.054	TC
578	271774.584	4637582.436	415.864	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
579	271775.223	4637569.671	415.495	TC
580	271774.840	4637558.796	415.293	TC
581	271773.037	4637547.946	415.021	TC
582	271766.904	4637533.832	414.703	TC
583	271763.801	4637529.488	414.487	TC
584	271761.251	4637527.084	414.359	FITA
585	271759.335	4637524.855	414.291	TC
586	271756.839	4637522.954	414.259	TC
587	271753.217	4637521.486	414.202	TC
588	271748.888	4637521.974	414.133	TC
589	271743.165	4637527.829	414.102	TC
590	271736.911	4637534.180	414.201	TC
591	271739.535	4637522.391	414.256	Z
592	271752.358	4637516.106	414.177	Z
593	271775.317	4637504.689	414.313	Z
594	271788.578	4637497.811	414.351	Z
595	271806.028	4637488.931	414.323	Z
596	271826.902	4637479.962	414.305	Z
597	271843.519	4637473.524	414.183	Z
598	271864.425	4637467.768	414.584	Z
599	271882.745	4637464.130	414.936	Z
600	271896.809	4637461.668	415.251	Z
601	271910.815	4637459.786	415.466	Z
602	271925.432	4637457.865	415.580	Z
603	271946.803	4637454.347	415.620	Z
604	271970.912	4637451.305	415.716	Z
605	271984.371	4637457.777	415.718	Z
606	271981.384	4637469.800	415.861	Z
607	271967.170	4637473.769	415.846	Z
608	271950.144	4637476.153	415.922	Z
609	271932.843	4637478.375	415.857	Z
610	271915.331	4637480.173	415.670	Z
611	271903.093	4637481.483	415.519	Z
612	271888.284	4637484.305	415.234	Z
613	271871.193	4637486.790	415.020	TC
614	271862.211	4637483.176	414.545	TC
615	271859.700	4637491.506	414.622	TC
616	271864.500	4637495.123	414.952	TC
617	271872.427	4637493.076	415.057	TC
618	271875.956	4637480.415	415.026	Z
619	271864.239	4637478.841	414.667	Z
620	271851.525	4637483.929	414.507	Z
621	271819.782	4637496.689	414.570	Z
622	271802.550	4637503.605	414.570	Z
623	271781.881	4637511.562	414.592	Z
624	271773.057	4637515.619	414.430	Z
625	271774.080	4637527.181	414.545	Z

Número	Coord. X	Coord. Y	Coord. Z	Código
626	271785.766	4637527.960	414.897	Z
627	271802.124	4637524.804	415.057	Z
628	271823.844	4637519.433	414.942	Z
629	271845.912	4637512.440	414.794	Z
630	271866.971	4637504.550	415.130	Z
631	271892.224	4637493.174	415.411	Z
632	271907.786	4637485.541	415.694	Z
633	271926.981	4637479.442	415.814	Z
634	271949.406	4637478.211	415.909	Z
635	271964.366	4637478.105	415.947	Z
636	271976.127	4637485.955	416.108	Z
637	271960.559	4637497.611	416.137	Z
638	271941.931	4637502.653	416.144	Z
639	271926.830	4637507.436	416.105	Z
640	271904.896	4637514.696	415.844	Z
641	271883.767	4637520.985	415.573	Z
642	271867.488	4637526.350	415.323	Z
643	271845.735	4637529.955	415.140	Z
644	271827.748	4637538.851	415.250	Z
645	271805.568	4637543.789	415.326	Z
646	271789.584	4637546.862	415.276	Z
647	271780.523	4637554.703	415.313	Z
648	271780.963	4637564.217	415.508	Z
649	271794.488	4637565.316	415.641	Z
650	271815.997	4637562.813	415.586	Z
651	271838.509	4637558.886	415.452	Z
652	271861.425	4637555.070	415.551	Z
653	271881.254	4637550.665	415.820	Z
654	271906.581	4637544.707	416.108	Z
655	271924.263	4637541.309	416.259	Z
656	271943.502	4637539.932	416.374	Z
657	271959.712	4637547.429	416.636	Z
658	271952.073	4637557.811	416.745	Z
659	271931.004	4637560.643	416.474	Z
660	271910.264	4637562.660	416.312	Z
661	271891.404	4637565.043	416.089	Z
662	271872.637	4637566.792	415.911	Z
663	271858.832	4637567.804	415.702	Z
664	271840.518	4637569.238	415.583	Z
665	271822.047	4637570.683	415.629	Z
666	271802.965	4637571.908	415.719	Z
667	271787.953	4637574.139	415.767	Z
668	271781.385	4637581.478	415.909	Z
669	271788.230	4637588.990	416.011	Z
670	271804.766	4637592.498	416.065	Z
671	271821.051	4637592.346	415.954	Z
672	271847.638	4637591.803	416.008	Z

Número	Coord. X	Coord. Y	Coord. Z	Código
673	271868.354	4637589.046	416.087	Z
674	271887.968	4637586.849	416.301	Z
675	271908.279	4637584.584	416.487	Z
676	271927.659	4637581.149	416.646	Z
677	271945.168	4637578.929	416.693	Z
678	271954.217	4637585.707	416.971	Z
679	271939.338	4637598.775	416.824	Z
680	271925.958	4637598.832	416.770	Z
681	271906.946	4637598.203	416.536	Z
682	271892.061	4637597.808	416.398	Z
683	271872.428	4637598.096	416.189	Z
684	271853.042	4637597.754	416.084	Z
685	271837.950	4637597.866	415.993	Z
686	271817.677	4637598.278	416.030	Z
687	271780.915	4637604.141	416.258	Z
688	271783.726	4637609.328	416.310	Z
689	271799.462	4637610.413	416.204	Z
690	271818.582	4637609.212	416.122	Z
691	271837.744	4637608.174	416.051	Z
692	271858.296	4637605.995	416.138	Z
693	271873.735	4637604.583	416.256	Z
694	271888.930	4637603.245	416.362	Z
695	271908.294	4637601.309	416.585	Z
696	271927.407	4637598.544	416.739	Z
697	271944.365	4637597.908	416.803	Z
698	271953.276	4637604.890	416.904	Z
699	271946.871	4637616.296	417.021	Z
700	271930.532	4637618.505	416.880	Z
701	271909.896	4637619.231	416.721	Z
702	271890.140	4637620.274	416.554	Z
703	271865.710	4637621.920	416.381	Z
704	271846.236	4637622.849	416.282	Z
705	271836.800	4637623.246	416.245	Z
706	271817.490	4637623.376	416.209	Z
707	271803.864	4637623.181	416.366	Z
708	271786.092	4637622.802	416.421	Z
709	271775.616	4637626.514	416.563	Z
710	271770.748	4637637.636	416.579	Z
711	271775.193	4637642.141	416.602	Z
712	271785.945	4637642.388	416.630	Z
713	271805.238	4637641.233	416.511	Z
714	271825.573	4637640.295	416.461	Z
715	271839.644	4637638.996	416.415	Z
716	271856.352	4637638.184	416.522	Z
717	271878.654	4637636.873	416.607	Z
718	271895.132	4637635.433	416.753	Z
719	271916.284	4637634.188	416.939	Z

Número	Coord. X	Coord. Y	Coord. Z	Código
720	271930.608	4637633.185	416.960	Z
721	271942.912	4637631.635	417.028	Z
722	271949.663	4637642.478	417.266	Z
723	271933.372	4637646.547	417.074	Z
724	271914.150	4637647.875	417.028	Z
725	271895.421	4637649.283	416.882	Z
726	271877.333	4637650.688	416.798	Z
727	271859.654	4637651.912	416.679	Z
728	271841.923	4637653.054	416.650	Z
729	271826.866	4637654.537	416.650	Z
730	271810.454	4637655.762	416.660	Z
731	271793.690	4637656.235	416.789	Z
732	271773.866	4637656.171	416.774	Z
733	271757.427	4637657.574	416.711	Z
734	271739.771	4637665.695	416.555	FITA
735	271959.889	4637585.434	417.076	FITA
1049	271956.255	4637650.719	417.136	CAMI
1050	271955.143	4637651.716	417.461	FITA
1051	271954.540	4637658.208	417.176	CAMI
1052	271953.145	4637658.568	417.584	Z
1053	271949.561	4637657.708	417.391	Z
1054	271944.414	4637658.018	417.286	Z
1055	271941.970	4637668.843	417.284	Z
1056	271946.676	4637668.717	417.421	Z
1057	271949.828	4637670.188	417.604	Z
2001	271959.767	4637655.473	417.218	CAMI
2003	271953.142	4637662.906	417.282	CAMI
2005	271954.551	4637657.364	417.248	CAMI
2007	271955.787	4637653.834	417.097	CAMI
2009	271953.301	4637650.147	417.255	TC
2011	271944.781	4637651.306	417.286	TC
2012	271930.016	4637651.736	417.163	TC
2014	271917.891	4637652.401	417.026	TC
2016	271905.365	4637653.213	417.046	TC
2019	271889.154	4637654.346	416.855	TC
2021	271875.898	4637655.141	416.890	TC
2022	271860.665	4637656.351	416.654	TC
2025	271844.340	4637657.315	416.684	TC
2027	271832.375	4637658.222	416.620	TC
2029	271820.510	4637659.160	416.798	TC
2030	271809.521	4637659.830	416.754	TC
2033	271794.597	4637660.709	416.918	TC
2034	271777.710	4637661.717	416.836	TC
2036	271764.973	4637662.642	416.805	TC
2039	271755.017	4637662.871	416.794	TC
2040	271747.244	4637663.074	416.722	TC
2043	271744.529	4637662.127	416.638	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
2046	271956.255	4637650.719	417.136	CAMI
2049	271954.540	4637658.208	417.176	CAMI
2050	271953.145	4637658.568	417.584	Z
2052	271949.828	4637670.188	417.604	Z
2055	271800.151	4637670.496	416.747	Z
2057	271817.011	4637669.594	416.671	Z
2058	271834.315	4637668.388	416.664	Z
2061	271854.620	4637667.123	416.680	Z
2063	271870.436	4637666.117	416.775	Z
2064	271891.972	4637664.666	416.849	Z
2066	271910.044	4637663.647	416.999	Z
2068	271926.128	4637662.800	417.058	Z
2071	271939.591	4637661.628	417.157	Z
2172	271738.804	4637669.286	416.618	TC
2173	271739.540	4637665.232	416.518	TC
2174	271739.675	4637665.721	416.538	FITA
2175	271739.956	4637663.504	416.227	CT
2176	271738.353	4637665.887	416.227	CT
2177	271738.017	4637668.717	416.328	CT
2178	271739.267	4637667.790	416.642	FILA
2237	271948.036	4637669.930	417.497	FILA
2238	271950.433	4637668.370	417.581	TC
2239	271952.151	4637663.144	417.601	TC
2240	271953.424	4637657.773	417.579	TC
2241	271954.390	4637653.513	417.534	TC
2242	271954.702	4637651.643	417.603	TC
2243	271954.946	4637651.785	417.627	FITA
2244	271949.640	4637664.668	417.544	FILA
2245	271951.871	4637658.473	417.518	FILA
2246	271952.383	4637653.821	417.501	FILA
2247	271951.648	4637650.785	417.277	TC
2248	271947.894	4637650.695	417.303	TC
2249	271939.311	4637651.310	417.226	TC
2250	271930.450	4637651.625	417.162	TC
2251	271920.404	4637651.958	417.104	TC
2252	271912.185	4637652.430	417.069	TC
2253	271902.742	4637653.356	417.134	TC
2254	271892.960	4637654.313	417.104	TC
2255	271888.626	4637657.922	416.923	FILA
2256	271890.265	4637663.179	416.898	FILA
2257	271890.289	4637668.510	416.943	FILA
2289	271839.939	4637666.010	416.714	FILA
2290	271838.412	4637661.255	416.706	FILA
2291	271864.891	4637655.871	416.732	TC
2292	271855.556	4637656.488	416.731	TC
2293	271844.016	4637657.513	416.714	TC
2294	271830.150	4637658.501	416.718	TC

Número	Coord. X	Coord. Y	Coord. Z	Código
2295	271819.924	4637659.134	416.740	TC
2296	271808.149	4637659.791	416.777	TC
2297	271797.070	4637660.557	416.847	TC
2298	271787.545	4637661.215	416.945	TC
2299	271775.276	4637662.175	416.917	TC
2300	271765.423	4637662.714	416.789	TC
2301	271757.048	4637662.843	416.799	TC
2302	271750.225	4637663.536	416.787	TC
2303	271744.767	4637664.268	416.716	TC
2304	271741.610	4637664.637	416.629	TC
2331	271787.031	4637669.776	416.855	FILA
2332	271787.785	4637664.534	416.875	FILA
2333	271807.490	4637663.228	416.771	FILA
2334	271807.532	4637668.202	416.745	FILA
3793	271976.527	4637485.924	416.140	
3794	271967.322	4637484.051	416.137	
3795	271949.303	4637482.356	416.053	
3796	271925.379	4637480.788	415.924	
3797	271909.484	4637479.602	415.698	
3798	271891.473	4637477.774	415.304	
3799	271865.232	4637474.907	414.739	
3800	271842.502	4637473.113	414.342	
3801	271820.408	4637471.761	414.263	
3802	271797.832	4637470.850	414.094	
3803	271774.549	4637469.629	413.965	
3804	271752.076	4637467.339	413.925	
3805	271735.781	4637465.594	414.096	
3806	271715.601	4637463.448	414.362	
3847	271999.141	4637414.002	415.028	TC
3848	271997.176	4637422.566	415.206	TC
3849	271995.063	4637433.840	415.419	TC
3850	271993.340	4637443.663	415.491	TC
3851	271990.039	4637459.751	415.729	TC
3852	271987.291	4637471.816	415.858	TC
3853	271983.532	4637487.592	416.063	TC
3854	271979.617	4637501.412	416.231	TC
3855	271961.544	4637504.445	416.249	
3856	271944.736	4637496.444	416.141	
3857	271925.768	4637489.128	415.977	
3858	271907.309	4637483.143	415.683	
3859	271888.469	4637478.444	415.204	
3860	271867.730	4637474.763	414.758	
3861	271847.885	4637469.423	414.263	
3862	271828.753	4637464.518	414.112	
3863	271809.949	4637459.887	414.018	
3864	271791.045	4637455.158	413.773	
3865	271765.117	4637448.792	413.660	

Número	Coord. X	Coord. Y	Coord. Z	Código
3866	271745.750	4637444.657	413.681	
3867	271720.948	4637439.565	414.150	
3870	271714.787	4637422.413	413.992	
3871	271736.463	4637427.101	413.615	
3872	271752.713	4637429.675	413.437	
3873	271775.404	4637434.922	413.530	TC
3874	271780.403	4637436.138	413.596	TC
3875	271783.300	4637433.423	413.525	TC
3876	271782.355	4637429.742	413.439	TC
3877	271778.140	4637428.825	413.350	TC
3878	271792.211	4637434.172	413.568	
3879	271815.962	4637431.598	413.616	
3880	271845.502	4637428.045	413.732	
3881	271865.973	4637426.549	414.358	
3882	271894.161	4637423.915	414.909	
3883	271918.608	4637422.121	415.303	
3884	271943.360	4637421.093	415.369	
3885	271960.691	4637420.364	415.288	
3886	271981.012	4637419.448	415.217	
3887	271991.337	4637416.840	415.244	
3888	271995.889	4637408.412	415.121	
3951	271728.397	4637419.813	413.687	
3952	271755.539	4637420.445	413.266	
3953	271783.798	4637419.521	413.266	
3954	271805.088	4637418.160	413.235	
3955	271833.668	4637414.995	413.360	
3956	271863.043	4637411.353	413.879	
3957	271899.879	4637408.099	414.824	
3959	271987.367	4637429.966	415.507	
3960	271966.371	4637432.862	415.491	
3961	271936.061	4637434.030	415.548	
3962	271909.390	4637436.746	415.328	
3963	271876.121	4637440.010	414.716	
3964	271847.647	4637441.970	413.959	
3965	271819.960	4637443.138	413.739	
3966	271776.941	4637448.387	413.675	
3967	271790.431	4637451.353	413.791	
3968	271815.537	4637452.253	413.882	
3969	271848.866	4637451.687	414.073	
3970	271883.543	4637452.068	414.926	
3971	271911.280	4637452.685	415.494	
3972	271937.547	4637453.448	415.684	
3973	271958.837	4637452.634	415.734	
3974	271980.538	4637452.514	415.724	
3975	271977.483	4637511.745	416.451	CAMI
3976	271981.896	4637496.463	416.283	CAMI
3977	271987.852	4637474.120	415.906	CAMI

Número	Coord. X	Coord. Y	Coord. Z	Código
3978	271992.964	4637451.718	415.531	CAMI
3979	271997.773	4637429.709	415.206	CAMI
3986	272007.053	4637409.001	414.703	CAMI
3987	272002.103	4637431.554	415.084	CAMI
3988	271998.509	4637450.127	415.347	CAMI
3989	271994.530	4637470.001	415.614	CAMI
3990	271988.580	4637493.447	416.035	CAMI
3991	271982.623	4637513.944	416.254	CAMI
3992	271998.312	4637421.440	415.425	FITA
3993	271729.693	4637541.124	414.252	TC
3994	271724.591	4637544.532	414.302	TC
3995	271718.434	4637543.738	414.284	TC
3996	271714.067	4637539.322	414.352	TC
3997	271711.911	4637531.519	414.415	TC
3998	271712.635	4637522.710	414.402	TC
3999	271713.176	4637515.034	414.377	TC
4004	271725.302	4637528.410	414.100	
4005	271724.166	4637506.691	414.120	
4006	271744.163	4637490.955	414.082	
4007	271754.710	4637500.386	414.201	
4008	271723.855	4637482.996	414.092	
4009	271740.773	4637507.201	414.177	
4010	271777.991	4637485.859	414.030	