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AN1 TOPOGRAFIA I REPLANTEIG

**NOVES DEPENDÈNCIES
DE LA POLICIA LOCAL,
L'ESCOLA BRESSOL 'EL
CAVALLET', I LA
CONNEXIÓ DEL CARRER
ANOIA AMB EL PARC
CENTRAL, A SANT
ANDREU DE LA BARCA**

Exp: 902523/20

DATA:
DESEMBRE
2020

**MEMÒRIA DESCRIPTIVA DE L'AIXECAMENT
TOPOGRÀFIC**

Fitxa d'aixecament topogràfic

Dades generals

Codi: 902523/20

Nom de l'aixecament: Aixecament topogràfic *NOVES DEPENDÈNCIES DE LA POLICIA LOCAL, L'ESCOLA BRESSOL 'EL CAVALLET', I LA CONNEXIÓ DEL CARRER ANOIA AMB EL PARC CENTRAL, A SANT ANDREU DE LA BARCA*

Municipi: Sant Andreu de la Barca

Superfície: 38473 m²

Nom de l'empresa: ESTUDIS TOPOGRÀFICS D'OBRES I PROJECTES SL (eTOP SL)

Dades de camp i de referència

Data de camp: 24 de novembre de 2020 i 17 de novembre de 2020 (FGC)

Sistema de referència geodèsic: ETRS89

Projecció cartogràfica: UTM FUS 31

Sistema de referència altimètric: GEOIDE CAT80000

Vèrtexs geodèsics emprats: -----

Instruments i mètodes emprats

Mètodes de topografia clàssica: Aixecament de punts per radiació

Mètodes GNSS: Lectures RTK de les Bases de replanteig

Instruments emprats:

- Estació Total LEICA TCRM1101 plus – Darrera Calibració 11/02/2020
- GPS. LEICA Viva GS12

Nom dels operaris:

- Xavier López Font
- Javier García Fernández
- Joan Carles Parra Gil

Mètodes de càlcul i ajust

Software de descàrrega i procés de les dades: Leica Geo Office 8.3

Software d'ajust: Topack 3.9

Software de dibuix: Autocad 2021

Software de càlcul de l'MDT: MDT 8

0. ÍNDEX

- 1. Presentació i objecte del projecte.
- 2. Ubicació del projecte.
- 3. Metodologia de treball.
- 4. Treballs de gabinet.
- 5. Documentació entregada.
- 6. Llistat de Bases.
- 7 Llistat de Punts.
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- 9. Reportatge Fotogràfic.
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1. PRESENTACIÓ I OBJECTIU DEL PROJECTE

L'objectiu del present treball és el d'obtenir un plànol topogràfic de detall a escala 1:200 de la zona especificada per la Direcció del Projecte. Donat el tipus i condicionants de l'aixecament s'han emprat mètodes de GPS en mode RTK i topografia clàssica.

Així mateix, també s'ha realitzat un model 3D de tota la zona topografiada i un reportatge fotogràfic que abasta tot l'àmbit del projecte.

2. UBICACIÓ DEL PROJECTE

- Parc Central
 - Sant Andreu de la Barca – Barcelona



3. MÈTODE DE TREBALL

Per dur a terme l'obtenció de les dades per a la realització del projecte, s'han materialitzat de forma permanent, una sèrie de bases de replanteig sobre el terreny, mitjançant claus d'acer tipus Spit o Geopunt, retolats amb el seu codi. Les ressenyes de cadascuna d'aquestes bases s'adjunten al Capítol 8 de la present memòria.

Per definir les coordenades de les bases de replanteig s'han realitzat lectures amb GPS en mode RTK.

Aparells emprats:

- Estació Total LEICA TCRM 1101 plus
 - **Precisions:**
 - Angular: 3" (1 mgon).
 - Distància: 2mm + 2 ppm.
- GPS. LEICA Viva GS12.
 - **Precisions:**
 - Horizontal: 5 mm + 0.5 ppm.
 - Vertical: 10 mm + 0.5 ppm.
- Sabata magnètica per Via Fèrria, per l'obtenció de la cara activa del carril.

La precisió en les coordenades dels punts que s'obté amb els aparells emprats i amb la metodologia de treball, és de ± 1 cm tant en relatiu com en absolut.

A continuació s'adjunta certificat de calibració de l'Estació Total:

INSTOP**CERTIFICADO DE VERIFICACIÓN Y CONTROL**

Nº de certificado: 025933

Instrumento: ESTACIÓN TOTAL

Modelo: TCRM1101

Nº Serie: 622159

Expedido a: ESTUDIS TOPOGRÀFICS D'OBRES I PROJECTES SL

Fecha revisión: 11-02-2020

Próxima revisión: 10-02-2021

Técnico: 5000

Proceso de Verificación y Control:

El instrumento ha sido verificado y controlado conforme a los procedimientos establecidos por el fabricante en el manual del instrumento en cuestión

Resultados:

Temperatura durante la verificación (°C): 21

	Registro Entrada	Tolerancia	Registro de Salida	Incertidumbre (K=2)
Desviación Hz (Gon)	0.0007	0.0005	0.0003	0.00015
Desviación Vt (Gon)	0.0044	0.0005	0.0003	0.00015
Eje de muñones	SI	SINO	SI	0.5
Desviación distancia (mm) (Distanciómetro infrarrojo)	1.0	2mm + 2ppm	1.0	0.3

Patrones empleados:

El colimador utilizado ha sido calibrado por el CEM (CENTRO ESPAÑOL DE METROLOGÍA)

Con el Certificado de Calibración Nº CEM 190606001

Colimador de Ejes: LEICA /381546 N/S 9696

(Incertidumbre asociada con el patrón: 0.0005 gon)

WILD TM5100A

(Resolución del instrumento 0,01 mg)

Instrumento utilizado para la calibración del colimador.

Comentarios:

Incertidumbres calculadas con un nivel de confianza del 95% (k=2)

Los resultados se refieren al momento y condiciones en que se efectuaron las mediciones y poseen trazabilidad a patrones nacionales o a patrones nacionales extranjeros

No se permite la reproducción parcial de este certificado sin la aprobación por escrito de Instop SLU

Leica
Geosystems

C/ Narcís Monturiol, 14
Pol. Ind. Plans d'Asu
08757 La Pobla de Claramunt (BCN)
Tel.: 93 803 95 70
Fax: 93 805 55 98
e-mail: instop@instop.es



Josep Colén Orrego - Ingeniero Técnico Industrial
(Técnico acreditado por Leica Geosystems AG)

4. TREBALLS DE GABINET

El procés de càlcul consisteix en primer lloc, en enllaçar les nostres bases amb el sistema oficial de coordenades **ETRS89 – Projecció UTM Fus 31**. Per poder fer aquest enllaç s'apliquen els paràmetres que facilita l'ICC a partir de la seva xarxa GPS de bases referència (RTK).

En segon lloc, es realitza un ajust de les coordenades obtingudes amb GPS, a partir de les observacions efectuades amb l'Estació Total amb **Regla de Bessel**. Un cop queden definides les coordenades de les bases, es calculen els punts que conformen l'aixecament. Aquest procés es realitza mitjançant aplicacions informàtiques apropiades per a aquesta tasca, essent en aquest cas:

- Leica Geo Office 8.3
- Topack 3.9

Un cop obtingut el núvol de punts que defineix l'aixecament, s'ha procedit al seu dibuix en CAD i a l'elaboració del model digital en 3D, amb el següent software:

- Autocad 2021
- MDT 8

5. DOCUMENTACIÓ ENTREGADA

- **Dossier en paper que inclou:**
 - Memòria descriptiva
 - Reportatge Fotogràfic
 - Plànols
- **CD amb la següent informació:**
 - Memòria descriptiva (pdf)
 - Arxius de CAD en 2D (dwg)
 - Arxius de CAD en 3D (dwg/dxf)
 - Arxiu de superfície LandXML
 - Fitxer ASCII de les Bases
 - Fitxer ASCII dels Punts

Signat:

Xavier López Font
Barcelona, desembre de 2020

Topack 3.9

eTOP Estudis Topogràfics d'Obres i Projectes SL

17/12/2020

PARC CENTRAL - ST. ANDREU DE LA BARCA**Relación de Puntos**

Identificador	X	Y	Z	Anamorfosis
BR-1	413.582,144	4.589.246,844	63,123	0,999691894
BR-2	413.650,319	4.589.206,151	61,583	0,999691749
BR-3	413.712,249	4.589.166,216	59,375	0,999691618
BR-4	413.706,996	4.589.327,533	53,682	0,999691629
BR-5	413.781,202	4.589.363,499	49,889	0,999691471
BR-6	413.804,778	4.589.359,297	47,270	0,999691421
BR-7	413.873,619	4.589.391,056	46,903	0,999691275
BR-14	413.828,820	4.589.309,829	49,117	0,999691370



Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1	413.643,803	4.589.212,827	61,750	35	413.693,451	4.589.182,754	60,176
2	413.643,770	4.589.212,799	61,885	36	413.693,125	4.589.182,123	60,130
3	413.643,497	4.589.212,172	61,876	37	413.693,899	4.589.183,776	60,047
4	413.644,208	4.589.212,547	61,746	38	413.693,895	4.589.185,057	60,065
5	413.645,364	4.589.212,610	61,693	39	413.693,945	4.589.182,464	60,031
6	413.646,754	4.589.210,966	61,679	40	413.697,364	4.589.180,378	59,859
7	413.647,270	4.589.210,735	61,642	41	413.697,806	4.589.180,151	59,821
8	413.647,260	4.589.210,696	61,773	42	413.697,809	4.589.180,114	59,954
9	413.646,896	4.589.210,137	61,777	43	413.697,418	4.589.179,501	59,971
10	413.648,891	4.589.210,466	61,592	44	413.698,009	4.589.180,011	59,827
11	413.648,070	4.589.209,772	61,752	45	413.690,631	4.589.187,893	60,183
12	413.649,702	4.589.209,802	61,601	46	413.689,350	4.589.181,788	60,227
13	413.649,868	4.589.209,162	61,564	47	413.689,065	4.589.179,299	60,146
14	413.649,847	4.589.209,146	61,705	48	413.680,435	4.589.184,485	60,415
15	413.649,546	4.589.208,529	61,663	49	413.681,669	4.589.186,499	60,458
16	413.650,303	4.589.208,865	61,574	50	413.684,456	4.589.191,650	60,393
17	413.652,247	4.589.208,557	61,502	51	413.676,704	4.589.196,380	60,640
18	413.652,850	4.589.207,352	61,474	52	413.673,727	4.589.191,279	60,724
19	413.653,296	4.589.207,136	61,480	53	413.674,499	4.589.188,084	60,626
20	413.653,269	4.589.207,088	61,596	54	413.671,932	4.589.189,591	60,714
21	413.652,894	4.589.206,475	61,586	55	413.661,860	4.589.195,713	61,111
22	413.659,441	4.589.203,357	61,260	56	413.663,079	4.589.197,755	61,108
23	413.659,465	4.589.203,328	61,358	57	413.666,187	4.589.202,722	61,009
24	413.666,887	4.589.199,716	61,020	58	413.655,404	4.589.210,354	61,378
25	413.666,523	4.589.199,048	61,006	59	413.651,590	4.589.212,219	61,513
26	413.666,525	4.589.199,010	61,087	60	413.648,352	4.589.206,673	61,633
27	413.675,931	4.589.193,333	60,686	61	413.651,778	4.589.204,521	61,534
28	413.675,909	4.589.193,334	60,785	62	413.648,839	4.589.203,540	61,538
29	413.685,035	4.589.187,860	60,366	63	413.646,303	4.589.205,087	61,622
30	413.685,034	4.589.187,825	60,460	64	413.638,684	4.589.209,713	61,886
31	413.686,589	4.589.186,459	60,435	65	413.639,754	4.589.211,871	61,923
32	413.690,895	4.589.184,298	60,205	66	413.642,287	4.589.217,798	61,862
33	413.690,888	4.589.184,273	60,314	67	413.636,514	4.589.221,312	62,046
34	413.693,513	4.589.182,753	60,054	68	413.635,242	4.589.217,981	62,036

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
69	413.635,156	4.589.218,019	62,178	103	413.620,929	4.589.240,580	62,481
70	413.634,158	4.589.215,234	62,110	104	413.628,958	4.589.235,690	62,255
71	413.632,622	4.589.213,401	62,069	105	413.628,997	4.589.235,699	62,112
72	413.623,223	4.589.219,061	62,347	106	413.636,890	4.589.230,934	61,894
73	413.620,612	4.589.220,635	62,424	107	413.636,911	4.589.230,888	62,021
74	413.623,682	4.589.221,565	62,426	108	413.645,032	4.589.225,979	61,743
75	413.626,018	4.589.223,580	62,307	109	413.645,091	4.589.225,990	61,594
76	413.625,986	4.589.223,574	62,459	110	413.650,766	4.589.221,595	61,535
77	413.626,760	4.589.223,687	62,293	111	413.652,859	4.589.221,245	61,359
78	413.626,633	4.589.227,291	62,356	112	413.652,816	4.589.221,256	61,487
79	413.619,322	4.589.231,727	62,542	113	413.652,286	4.589.220,439	61,506
80	413.617,632	4.589.229,157	62,548	114	413.650,999	4.589.218,211	61,531
81	413.617,533	4.589.228,718	62,552	115	413.653,302	4.589.220,947	61,335
82	413.617,487	4.589.228,729	62,699	116	413.654,671	4.589.224,338	61,305
83	413.615,957	4.589.226,217	62,648	117	413.658,143	4.589.222,151	61,195
84	413.614,779	4.589.224,171	62,589	118	413.655,873	4.589.219,401	61,250
85	413.605,534	4.589.229,805	62,848	119	413.656,303	4.589.219,182	61,233
86	413.606,820	4.589.231,785	62,903	120	413.656,261	4.589.219,167	61,371
87	413.608,269	4.589.234,332	62,796	121	413.655,726	4.589.218,278	61,393
88	413.608,237	4.589.234,330	62,952	122	413.654,533	4.589.216,094	61,428
89	413.609,859	4.589.237,433	62,759	123	413.657,675	4.589.217,415	61,320
90	413.604,857	4.589.236,057	63,084	124	413.659,381	4.589.217,341	61,123
91	413.603,881	4.589.237,971	62,891	125	413.659,379	4.589.217,290	61,284
92	413.603,801	4.589.241,126	62,804	126	413.667,748	4.589.212,178	61,022
93	413.601,720	4.589.238,332	62,906	127	413.667,867	4.589.212,193	60,859
94	413.601,683	4.589.238,274	63,080	128	413.676,315	4.589.207,071	60,565
95	413.599,357	4.589.236,335	63,059	129	413.676,305	4.589.207,022	60,726
96	413.597,312	4.589.234,739	63,039	130	413.684,175	4.589.202,259	60,435
97	413.612,610	4.589.241,449	62,682	131	413.684,199	4.589.202,294	60,284
98	413.614,308	4.589.244,597	62,465	132	413.691,016	4.589.198,178	60,079
99	413.614,872	4.589.244,297	62,467	133	413.690,965	4.589.198,136	60,195
100	413.614,890	4.589.244,223	62,614	134	413.691,786	4.589.197,700	60,082
101	413.617,185	4.589.246,922	62,478	135	413.690,340	4.589.194,442	60,243
102	413.620,945	4.589.240,579	62,332	136	413.692,944	4.589.201,087	59,996

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
137	413.692,142	4.589.207,224	60,011	171	413.631,531	4.589.248,111	61,909
138	413.694,070	4.589.210,276	59,899	172	413.631,474	4.589.248,091	62,063
139	413.693,108	4.589.210,820	59,956	173	413.627,249	4.589.250,645	62,191
140	413.693,148	4.589.210,780	60,094	174	413.627,223	4.589.250,717	62,025
141	413.694,923	4.589.213,867	59,886	175	413.626,541	4.589.251,087	62,057
142	413.685,149	4.589.215,646	60,214	176	413.623,692	4.589.248,643	62,254
143	413.685,155	4.589.215,605	60,331	177	413.629,050	4.589.253,608	61,976
144	413.676,619	4.589.220,775	60,620	178	413.634,498	4.589.254,046	61,863
145	413.676,556	4.589.220,840	60,485	179	413.633,845	4.589.253,010	61,842
146	413.668,715	4.589.225,591	60,772	180	413.637,131	4.589.251,607	61,760
147	413.668,658	4.589.225,579	60,921	181	413.625,069	4.589.244,980	62,203
148	413.663,672	4.589.227,686	61,063	182	413.621,780	4.589.246,285	62,292
149	413.663,039	4.589.229,653	60,971	183	413.622,364	4.589.247,344	62,275
150	413.664,190	4.589.232,447	60,920	184	413.635,803	4.589.255,322	61,798
151	413.662,387	4.589.229,431	60,964	185	413.638,269	4.589.257,962	61,575
152	413.662,419	4.589.229,410	61,102	186	413.638,962	4.589.257,585	61,573
153	413.661,930	4.589.229,706	60,969	187	413.638,958	4.589.257,546	61,737
154	413.661,855	4.589.228,618	61,111	188	413.641,077	4.589.260,321	61,523
155	413.660,592	4.589.226,341	61,159	189	413.645,617	4.589.253,568	61,379
156	413.657,105	4.589.228,435	61,295	190	413.645,636	4.589.253,518	61,555
157	413.658,544	4.589.230,756	61,262	191	413.653,551	4.589.248,718	61,335
158	413.659,354	4.589.231,238	61,123	192	413.653,527	4.589.248,770	61,168
159	413.658,891	4.589.231,559	61,121	193	413.659,865	4.589.244,965	60,985
160	413.658,852	4.589.231,519	61,276	194	413.659,805	4.589.244,923	61,156
161	413.660,660	4.589.234,534	61,067	195	413.663,134	4.589.242,461	61,018
162	413.656,908	4.589.231,918	61,319	196	413.665,120	4.589.242,269	60,822
163	413.655,740	4.589.233,993	61,223	197	413.666,724	4.589.244,827	60,747
164	413.652,255	4.589.235,564	61,332	198	413.664,982	4.589.241,852	60,829
165	413.652,069	4.589.235,601	61,495	199	413.664,936	4.589.241,803	60,971
166	413.647,708	4.589.238,934	61,460	200	413.664,462	4.589.240,861	60,974
167	413.644,993	4.589.239,975	61,542	201	413.663,149	4.589.238,778	60,997
168	413.645,014	4.589.239,904	61,679	202	413.666,606	4.589.236,654	60,890
169	413.637,305	4.589.244,564	61,885	203	413.667,866	4.589.238,954	60,874
170	413.637,349	4.589.244,577	61,736	204	413.668,366	4.589.239,741	60,854

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
205	413.668,449	4.589.239,742	60,704	239	413.670,441	4.589.251,204	60,661
206	413.668,007	4.589.239,991	60,725	240	413.671,436	4.589.251,814	60,498
207	413.665,415	4.589.241,631	60,808	241	413.670,968	4.589.252,149	60,519
208	413.668,786	4.589.240,043	60,710	242	413.670,931	4.589.252,120	60,659
209	413.670,128	4.589.242,735	60,652	243	413.672,431	4.589.254,672	60,497
210	413.669,861	4.589.238,044	60,814	244	413.669,166	4.589.252,532	60,706
211	413.673,132	4.589.236,913	60,560	245	413.663,482	4.589.256,695	60,649
212	413.673,156	4.589.236,868	60,723	246	413.663,359	4.589.256,700	60,814
213	413.681,193	4.589.231,954	60,454	247	413.656,427	4.589.260,892	61,019
214	413.681,223	4.589.231,999	60,299	248	413.656,476	4.589.260,934	60,864
215	413.689,896	4.589.226,737	59,990	249	413.651,095	4.589.264,162	61,090
216	413.689,863	4.589.226,702	60,141	250	413.651,080	4.589.264,149	61,243
217	413.695,526	4.589.223,315	59,826	251	413.650,446	4.589.264,577	61,137
218	413.695,501	4.589.223,288	59,963	252	413.650,130	4.589.264,619	61,165
219	413.696,274	4.589.222,817	59,769	253	413.647,626	4.589.265,751	61,309
220	413.694,852	4.589.219,608	59,891	254	413.647,914	4.589.261,949	61,347
221	413.697,220	4.589.225,671	59,828	255	413.652,784	4.589.266,510	61,123
222	413.697,433	4.589.232,018	59,769	256	413.660,241	4.589.269,385	60,897
223	413.698,501	4.589.235,486	59,688	257	413.662,644	4.589.271,345	60,750
224	413.697,924	4.589.235,851	59,628	258	413.663,277	4.589.270,968	60,699
225	413.697,879	4.589.235,821	59,826	259	413.663,290	4.589.270,928	60,851
226	413.699,797	4.589.238,030	59,611	260	413.664,899	4.589.273,401	60,630
227	413.690,350	4.589.240,396	59,899	261	413.670,127	4.589.266,819	60,459
228	413.690,325	4.589.240,402	60,034	262	413.670,104	4.589.266,800	60,620
229	413.682,053	4.589.245,375	60,304	263	413.675,248	4.589.263,023	60,429
230	413.682,016	4.589.245,424	60,169	264	413.675,632	4.589.260,037	60,426
231	413.676,037	4.589.248,476	60,501	265	413.676,669	4.589.261,759	60,395
232	413.674,441	4.589.250,043	60,403	266	413.677,079	4.589.262,609	60,259
233	413.674,410	4.589.250,002	60,553	267	413.677,058	4.589.262,588	60,394
234	413.674,015	4.589.250,262	60,406	268	413.677,545	4.589.262,290	60,234
235	413.675,957	4.589.252,556	60,384	269	413.678,564	4.589.265,088	60,234
236	413.673,932	4.589.249,087	60,547	270	413.680,972	4.589.266,654	60,127
237	413.672,615	4.589.246,921	60,594	271	413.682,023	4.589.263,037	60,126
238	413.669,232	4.589.249,027	60,704	272	413.680,137	4.589.260,739	60,153

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
273	413.680,594	4.589.260,456	60,148	307	413.675,385	4.589.277,614	60,347
274	413.680,600	4.589.260,440	60,281	308	413.674,905	4.589.277,948	60,216
275	413.679,994	4.589.259,563	60,290	309	413.672,319	4.589.276,074	60,427
276	413.679,075	4.589.257,949	60,321	310	413.676,910	4.589.280,150	60,186
277	413.682,006	4.589.258,624	60,220	311	413.684,568	4.589.275,501	59,913
278	413.686,233	4.589.257,043	59,959	312	413.650,504	4.589.198,387	61,374
279	413.686,255	4.589.257,005	60,122	313	413.649,178	4.589.199,147	61,423
280	413.693,541	4.589.252,597	59,887	314	413.650,349	4.589.198,887	61,392
281	413.693,540	4.589.252,642	59,716	315	413.648,075	4.589.200,483	61,465
282	413.700,199	4.589.248,628	59,521	316	413.647,200	4.589.198,600	61,320
283	413.700,150	4.589.248,619	59,686	317	413.647,230	4.589.198,654	61,453
284	413.700,971	4.589.248,147	59,510	318	413.647,770	4.589.201,796	61,485
285	413.699,581	4.589.245,572	59,646	319	413.645,209	4.589.203,329	61,569
286	413.700,500	4.589.259,065	59,562	320	413.644,229	4.589.202,800	61,594
287	413.701,880	4.589.261,601	59,441	321	413.641,423	4.589.202,140	61,511
288	413.701,210	4.589.262,041	59,453	322	413.641,455	4.589.202,176	61,640
289	413.701,189	4.589.262,026	59,593	323	413.639,612	4.589.205,607	61,763
290	413.693,686	4.589.266,566	59,653	324	413.637,487	4.589.208,004	61,861
291	413.693,637	4.589.266,565	59,807	325	413.635,714	4.589.205,972	61,837
292	413.688,126	4.589.268,867	59,919	326	413.635,586	4.589.205,684	61,693
293	413.685,121	4.589.268,332	60,029	327	413.632,969	4.589.207,873	61,932
294	413.686,100	4.589.270,055	60,013	328	413.633,520	4.589.208,621	61,941
295	413.686,568	4.589.270,881	59,872	329	413.633,350	4.589.209,075	61,953
296	413.686,583	4.589.270,849	60,033	330	413.632,264	4.589.209,417	61,968
297	413.686,119	4.589.271,114	59,893	331	413.630,434	4.589.208,755	61,865
298	413.683,567	4.589.272,669	59,965	332	413.630,498	4.589.208,816	61,998
299	413.683,125	4.589.272,980	59,984	333	413.631,154	4.589.210,728	62,016
300	413.683,095	4.589.272,961	60,101	334	413.627,305	4.589.213,108	62,166
301	413.682,671	4.589.272,097	60,099	335	413.628,339	4.589.213,540	62,143
302	413.681,640	4.589.270,490	60,137	336	413.626,878	4.589.210,912	61,978
303	413.681,301	4.589.272,932	60,162	337	413.626,931	4.589.210,956	62,109
304	413.679,777	4.589.275,006	60,076	338	413.622,664	4.589.215,853	62,280
305	413.679,762	4.589.274,990	60,234	339	413.622,125	4.589.217,285	62,323
306	413.675,385	4.589.277,669	60,188	340	413.619,609	4.589.218,861	62,372

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
341	413.618,846	4.589.218,210	62,383	375	413.597,254	4.589.229,727	62,923
342	413.620,738	4.589.214,642	62,163	376	413.599,260	4.589.228,512	62,872
343	413.620,733	4.589.214,713	62,301	377	413.598,757	4.589.227,882	62,734
344	413.619,851	4.589.214,856	62,336	378	413.601,673	4.589.226,688	62,805
345	413.618,626	4.589.211,186	62,292	379	413.602,946	4.589.223,080	62,660
346	413.618,613	4.589.211,307	62,412	380	413.606,930	4.589.245,293	62,797
347	413.618,357	4.589.212,009	62,421	381	413.606,900	4.589.245,403	62,921
348	413.617,762	4.589.212,178	62,438	382	413.613,792	4.589.249,127	62,553
349	413.617,566	4.589.211,849	62,442	383	413.613,812	4.589.249,289	62,684
350	413.613,935	4.589.213,980	62,539	384	413.623,825	4.589.254,721	62,179
351	413.612,779	4.589.214,643	62,438	385	413.623,843	4.589.254,935	62,307
352	413.613,033	4.589.214,701	62,552	386	413.632,056	4.589.259,305	61,878
353	413.614,920	4.589.218,148	62,319	387	413.632,115	4.589.259,606	62,010
354	413.614,960	4.589.218,144	62,449	388	413.641,104	4.589.264,349	61,555
355	413.616,350	4.589.219,044	62,437	389	413.641,371	4.589.264,692	61,670
356	413.616,184	4.589.219,490	62,444	390	413.646,362	4.589.267,815	61,494
357	413.615,019	4.589.219,807	62,471	391	413.650,443	4.589.269,551	61,207
358	413.613,919	4.589.221,160	62,505	392	413.650,123	4.589.269,587	61,345
359	413.612,674	4.589.223,102	62,565	393	413.661,422	4.589.273,087	60,781
360	413.612,407	4.589.220,759	62,533	394	413.659,527	4.589.274,617	60,809
361	413.612,255	4.589.220,216	62,532	395	413.659,427	4.589.274,758	60,955
362	413.612,010	4.589.220,139	62,533	396	413.669,047	4.589.279,873	60,470
363	413.611,422	4.589.220,250	62,403	397	413.669,390	4.589.280,249	60,569
364	413.610,344	4.589.223,306	62,615	398	413.680,084	4.589.286,042	60,012
365	413.607,629	4.589.226,092	62,686	399	413.680,035	4.589.286,173	60,131
366	413.606,354	4.589.224,016	62,679	400	413.682,500	4.589.285,945	59,923
367	413.606,240	4.589.223,409	62,534	401	413.682,750	4.589.286,018	60,051
368	413.605,468	4.589.226,291	62,761	402	413.682,694	4.589.286,756	59,995
369	413.603,674	4.589.228,484	62,822	403	413.684,657	4.589.284,608	59,840
370	413.601,847	4.589.228,428	62,842	404	413.684,793	4.589.284,716	59,961
371	413.599,417	4.589.229,328	62,894	405	413.685,728	4.589.282,349	59,812
372	413.599,082	4.589.229,847	62,906	406	413.687,676	4.589.280,262	59,770
373	413.597,894	4.589.230,259	62,925	407	413.689,457	4.589.279,816	59,731
374	413.596,775	4.589.231,561	62,976	408	413.689,543	4.589.279,952	59,865

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
409	413.690,837	4.589.280,531	59,874	443	413.644,213	4.589.266,714	61,416
410	413.692,966	4.589.278,403	59,819	444	413.639,122	4.589.264,657	61,544
411	413.691,962	4.589.277,434	59,635	445	413.635,341	4.589.261,820	61,816
412	413.692,096	4.589.277,496	59,802	446	413.630,217	4.589.258,815	61,984
413	413.691,710	4.589.276,743	59,634	447	413.627,854	4.589.257,753	62,027
414	413.698,455	4.589.271,128	59,401	448	413.616,125	4.589.250,964	62,431
415	413.698,638	4.589.271,144	59,522	449	413.610,391	4.589.247,742	62,630
416	413.703,461	4.589.266,143	59,245	450	413.608,471	4.589.246,269	62,640
417	413.703,399	4.589.266,417	59,381	451	413.708,025	4.589.254,998	59,310
418	413.704,998	4.589.264,374	59,371	452	413.708,111	4.589.251,704	59,273
419	413.705,052	4.589.264,206	59,238	453	413.707,436	4.589.249,717	59,249
420	413.705,308	4.589.263,739	59,213	454	413.707,295	4.589.249,262	59,119
421	413.705,397	4.589.263,505	59,209	455	413.707,256	4.589.248,816	59,290
422	413.706,072	4.589.265,612	59,282	456	413.707,627	4.589.247,663	59,402
423	413.704,614	4.589.268,113	59,120	457	413.707,132	4.589.244,939	59,477
424	413.702,470	4.589.270,078	59,337	458	413.706,423	4.589.242,414	59,473
425	413.697,943	4.589.274,284	59,449	459	413.706,077	4.589.238,567	59,557
426	413.695,018	4.589.277,090	59,706	460	413.705,138	4.589.235,493	59,614
427	413.695,191	4.589.276,534	59,654	461	413.703,695	4.589.234,119	59,635
428	413.694,790	4.589.276,265	59,611	462	413.702,840	4.589.228,194	59,846
429	413.693,500	4.589.278,930	59,714	463	413.703,784	4.589.227,854	59,845
430	413.690,331	4.589.281,758	59,840	464	413.702,908	4.589.222,621	59,847
431	413.688,332	4.589.283,367	59,832	465	413.701,687	4.589.216,515	59,757
432	413.687,612	4.589.284,202	59,943	466	413.701,348	4.589.212,583	59,842
433	413.685,061	4.589.286,546	59,839	467	413.700,141	4.589.204,943	59,932
434	413.681,171	4.589.287,440	59,600	468	413.699,019	4.589.201,994	59,988
435	413.678,287	4.589.286,829	59,977	469	413.698,513	4.589.195,542	60,014
436	413.672,365	4.589.282,560	60,465	470	413.698,402	4.589.190,000	60,012
437	413.667,703	4.589.280,648	60,575	471	413.700,585	4.589.187,458	59,928
438	413.665,108	4.589.279,090	60,628	472	413.704,027	4.589.184,897	59,698
439	413.659,116	4.589.275,705	60,772	473	413.706,856	4.589.183,027	59,474
440	413.656,961	4.589.274,354	60,981	474	413.704,751	4.589.175,829	59,655
441	413.651,938	4.589.271,459	61,099	475	413.706,521	4.589.177,868	59,606
442	413.648,028	4.589.269,444	61,173	476	413.705,771	4.589.178,326	59,604

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
477	413.705,650	4.589.179,132	59,599	511	413.706,149	4.589.259,521	59,217
478	413.703,435	4.589.179,278	59,676	512	413.623,116	4.589.216,079	62,277
479	413.706,132	4.589.179,962	59,572	513	413.616,687	4.589.220,420	62,442
480	413.706,862	4.589.179,557	59,566	514	413.615,372	4.589.220,752	62,479
481	413.706,418	4.589.178,867	59,569	515	413.612,515	4.589.214,354	62,441
482	413.706,987	4.589.180,263	59,565	516	413.610,026	4.589.215,832	62,555
483	413.707,722	4.589.179,868	59,558	517	413.609,145	4.589.216,448	62,577
484	413.708,369	4.589.180,749	59,419	518	413.606,457	4.589.218,052	62,644
485	413.700,649	4.589.183,932	59,815	519	413.603,995	4.589.219,536	62,698
486	413.701,062	4.589.185,227	59,768	520	413.601,603	4.589.221,000	62,766
487	413.701,089	4.589.185,311	59,842	521	413.599,113	4.589.218,099	62,899
488	413.697,587	4.589.187,321	59,933	522	413.606,098	4.589.213,896	62,711
489	413.697,665	4.589.187,350	60,063	523	413.610,698	4.589.211,133	62,569
490	413.695,297	4.589.192,093	59,943	524	413.611,904	4.589.210,617	62,634
491	413.695,378	4.589.192,066	60,078	525	413.615,408	4.589.208,325	62,539
492	413.696,748	4.589.199,777	59,872	526	413.616,472	4.589.207,655	62,396
493	413.696,856	4.589.199,808	59,993	527	413.622,523	4.589.204,028	62,250
494	413.698,596	4.589.209,799	59,773	528	413.624,108	4.589.202,488	62,167
495	413.698,861	4.589.209,874	59,899	529	413.629,562	4.589.199,797	62,038
496	413.700,466	4.589.219,929	59,707	530	413.635,454	4.589.196,113	61,843
497	413.700,699	4.589.220,254	59,830	531	413.635,596	4.589.196,267	61,837
498	413.701,916	4.589.227,884	59,599	532	413.641,546	4.589.192,141	61,614
499	413.702,078	4.589.228,025	59,731	533	413.641,726	4.589.192,568	61,610
500	413.703,834	4.589.238,076	59,486	534	413.646,715	4.589.188,529	61,398
501	413.703,957	4.589.238,319	59,620	535	413.647,194	4.589.189,237	61,396
502	413.705,079	4.589.244,684	59,436	536	413.653,584	4.589.183,535	61,137
503	413.705,207	4.589.244,365	59,551	537	413.654,562	4.589.184,803	61,137
504	413.705,639	4.589.248,697	59,373	538	413.659,627	4.589.179,131	60,917
505	413.705,725	4.589.249,361	59,350	539	413.660,730	4.589.181,161	60,911
506	413.705,838	4.589.249,025	59,355	540	413.663,057	4.589.176,823	60,801
507	413.706,179	4.589.253,603	59,275	541	413.665,028	4.589.177,353	60,751
508	413.706,297	4.589.258,262	59,351	542	413.664,996	4.589.178,518	60,763
509	413.706,128	4.589.258,488	59,222	543	413.667,929	4.589.176,741	60,648
510	413.706,132	4.589.258,871	59,218	544	413.666,219	4.589.174,834	60,678

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
545	413.669,747	4.589.174,991	60,583	579	413.627,183	4.589.205,481	62,082
546	413.670,829	4.589.175,059	60,549	580	413.624,346	4.589.207,208	62,162
547	413.670,945	4.589.171,928	60,515	581	413.621,436	4.589.208,953	62,256
548	413.674,573	4.589.169,712	60,382	582	413.652,161	4.589.197,987	61,344
549	413.674,987	4.589.170,491	60,392	583	413.655,113	4.589.197,332	61,259
550	413.676,857	4.589.168,246	60,244	584	413.656,071	4.589.195,667	61,214
551	413.677,552	4.589.167,896	60,231	585	413.652,972	4.589.195,113	61,132
552	413.678,114	4.589.167,512	60,212	586	413.653,069	4.589.195,136	61,265
553	413.678,198	4.589.167,681	60,324	587	413.660,414	4.589.192,990	61,058
554	413.678,663	4.589.168,772	60,332	588	413.662,676	4.589.192,707	61,015
555	413.679,470	4.589.169,806	60,213	589	413.661,649	4.589.189,873	60,840
556	413.679,372	4.589.169,676	60,329	590	413.662,206	4.589.190,087	60,978
557	413.678,908	4.589.170,141	60,233	591	413.663,566	4.589.190,492	60,960
558	413.678,565	4.589.170,451	60,236	592	413.664,544	4.589.190,494	60,939
559	413.677,164	4.589.169,552	60,227	593	413.666,166	4.589.188,916	60,839
560	413.676,076	4.589.170,508	60,346	594	413.667,356	4.589.188,528	60,802
561	413.679,418	4.589.173,863	60,242	595	413.667,737	4.589.187,950	60,779
562	413.676,453	4.589.175,632	60,341	596	413.666,448	4.589.187,552	60,803
563	413.673,598	4.589.177,345	60,432	597	413.669,162	4.589.187,726	60,755
564	413.670,645	4.589.179,118	60,537	598	413.670,897	4.589.187,814	60,711
565	413.667,738	4.589.180,918	60,645	599	413.670,339	4.589.184,592	60,521
566	413.664,865	4.589.182,662	60,751	600	413.670,380	4.589.184,657	60,645
567	413.661,982	4.589.184,408	60,868	601	413.672,985	4.589.185,363	60,593
568	413.659,045	4.589.186,170	60,989	602	413.673,408	4.589.186,250	60,602
569	413.656,166	4.589.187,935	61,103	603	413.675,418	4.589.185,194	60,518
570	413.653,277	4.589.189,667	61,204	604	413.677,807	4.589.182,422	60,430
571	413.650,322	4.589.191,448	61,306	605	413.676,139	4.589.181,081	60,308
572	413.647,466	4.589.193,224	61,404	606	413.676,160	4.589.181,147	60,442
573	413.644,588	4.589.194,941	61,503	607	413.681,948	4.589.181,131	60,327
574	413.641,675	4.589.196,684	61,614	608	413.681,459	4.589.180,225	60,321
575	413.638,770	4.589.198,471	61,721	609	413.680,386	4.589.178,850	60,298
576	413.635,882	4.589.200,230	61,818	610	413.681,967	4.589.177,563	60,106
577	413.632,965	4.589.201,991	61,904	611	413.681,930	4.589.177,604	60,226
578	413.630,099	4.589.203,683	61,994	612	413.683,360	4.589.178,465	60,236

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
613	413.684,412	4.589.178,162	60,211	647	413.696,667	4.589.165,359	59,801
614	413.684,698	4.589.177,687	60,186	648	413.697,467	4.589.165,581	59,780
615	413.699,667	4.589.148,229	57,077	649	413.697,728	4.589.165,430	59,748
616	413.705,409	4.589.152,218	59,322	650	413.699,382	4.589.164,420	59,753
617	413.703,354	4.589.153,777	59,352	651	413.699,660	4.589.164,257	59,693
618	413.701,530	4.589.153,335	59,366	652	413.696,449	4.589.163,894	59,792
619	413.701,024	4.589.153,689	59,391	654	413.696,718	4.589.163,766	59,743
620	413.701,202	4.589.153,750	59,488	655	413.697,510	4.589.163,989	59,752
621	413.701,545	4.589.154,101	59,499	656	413.697,633	4.589.162,944	59,616
622	413.702,385	4.589.155,712	59,539	657	413.698,372	4.589.162,706	59,752
623	413.702,849	4.589.155,051	59,510	658	413.698,629	4.589.162,543	59,698
624	413.702,938	4.589.155,584	59,413	659	413.699,430	4.589.162,781	59,696
625	413.702,440	4.589.155,871	59,430	660	413.700,321	4.589.161,601	59,690
626	413.700,371	4.589.155,528	59,662	661	413.700,601	4.589.161,198	59,513
627	413.696,916	4.589.159,247	59,603	662	413.701,310	4.589.163,236	59,689
628	413.696,744	4.589.159,166	59,731	663	413.702,270	4.589.163,858	59,426
629	413.695,426	4.589.157,249	59,688	664	413.700,468	4.589.164,446	59,695
630	413.695,208	4.589.157,176	59,594	665	413.703,389	4.589.163,295	59,379
631	413.693,522	4.589.159,815	59,849	666	413.704,946	4.589.158,462	59,365
632	413.686,776	4.589.163,950	60,094	667	413.708,057	4.589.156,555	59,259
633	413.688,206	4.589.164,510	59,917	668	413.708,974	4.589.157,686	59,220
634	413.688,166	4.589.164,364	60,032	669	413.713,191	4.589.155,145	59,077
635	413.686,510	4.589.162,647	60,042	670	413.714,569	4.589.157,781	58,975
636	413.686,121	4.589.162,683	59,938	671	413.714,697	4.589.157,740	59,113
637	413.679,767	4.589.168,085	60,296	672	413.713,471	4.589.158,417	59,014
638	413.682,285	4.589.172,091	60,155	673	413.714,593	4.589.160,160	59,186
639	413.685,204	4.589.170,356	60,053	674	413.715,123	4.589.160,975	59,188
640	413.688,092	4.589.168,564	59,954	675	413.713,256	4.589.161,424	59,231
641	413.691,108	4.589.166,771	59,852	676	413.712,447	4.589.162,402	59,265
642	413.694,203	4.589.164,877	59,747	677	413.711,778	4.589.161,870	59,265
643	413.694,546	4.589.164,851	59,732	678	413.712,780	4.589.159,764	59,201
644	413.694,802	4.589.164,922	59,800	679	413.711,385	4.589.160,769	59,246
645	413.696,462	4.589.163,921	59,791	680	413.710,084	4.589.160,500	59,128
646	413.695,565	4.589.165,130	59,801	681	413.710,052	4.589.161,245	59,280

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
682	413.709,842	4.589.161,658	59,298	716	413.695,736	4.589.168,785	59,609
683	413.708,820	4.589.162,249	59,334	717	413.697,705	4.589.171,601	59,753
684	413.708,358	4.589.162,254	59,333	718	413.695,616	4.589.171,634	59,824
685	413.707,690	4.589.161,947	59,209	719	413.690,960	4.589.174,485	59,995
686	413.707,104	4.589.162,293	59,232	720	413.691,127	4.589.172,000	59,774
687	413.707,077	4.589.163,015	59,372	721	413.689,150	4.589.176,685	60,063
688	413.708,704	4.589.164,841	59,382	722	413.687,084	4.589.176,800	60,154
689	413.706,688	4.589.163,668	59,393	723	413.687,738	4.589.174,034	59,904
690	413.705,452	4.589.164,360	59,444	724	413.687,750	4.589.174,107	60,018
691	413.704,375	4.589.164,692	59,473	725	413.709,244	4.589.173,065	59,516
692	413.703,965	4.589.164,293	59,339	726	413.709,737	4.589.175,889	59,685
693	413.703,972	4.589.164,868	59,502	727	413.710,961	4.589.177,906	59,323
694	413.704,368	4.589.166,365	59,522	728	413.708,805	4.589.179,507	59,509
695	413.705,120	4.589.167,038	59,519	729	413.710,606	4.589.181,113	59,204
696	413.703,708	4.589.167,219	59,560	730	413.713,185	4.589.179,486	59,160
697	413.702,910	4.589.164,890	59,507	731	413.711,410	4.589.178,663	59,233
698	413.702,334	4.589.164,902	59,689	732	413.712,188	4.589.177,292	59,265
699	413.700,680	4.589.165,897	59,686	733	413.713,666	4.589.177,282	59,147
700	413.700,280	4.589.166,358	59,600	734	413.714,292	4.589.177,643	59,050
701	413.700,925	4.589.166,735	59,588	735	413.714,362	4.589.178,608	59,115
702	413.701,901	4.589.167,221	59,577	736	413.716,025	4.589.181,692	58,438
703	413.701,706	4.589.167,688	59,604	737	413.719,315	4.589.184,751	57,845
704	413.700,601	4.589.167,992	59,626	738	413.717,820	4.589.180,637	58,312
705	413.699,501	4.589.169,313	59,672	739	413.717,998	4.589.180,953	58,519
706	413.698,819	4.589.167,241	59,657	740	413.717,716	4.589.181,377	58,386
707	413.698,774	4.589.167,087	59,746	741	413.721,648	4.589.183,373	57,562
708	413.698,550	4.589.165,622	59,751	742	413.722,386	4.589.184,796	57,315
709	413.695,787	4.589.166,577	59,793	743	413.722,013	4.589.184,744	57,500
710	413.695,538	4.589.166,469	59,682	744	413.720,593	4.589.186,694	57,264
711	413.695,246	4.589.166,728	59,678	745	413.718,182	4.589.189,242	57,298
712	413.695,296	4.589.167,706	59,661	746	413.717,389	4.589.189,249	57,330
713	413.696,233	4.589.168,059	59,613	747	413.717,975	4.589.188,268	57,571
714	413.696,784	4.589.168,500	59,605	748	413.715,489	4.589.189,582	57,367
715	413.696,856	4.589.168,595	59,718	749	413.715,140	4.589.187,626	57,379

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
750	413.715,163	4.589.187,431	57,747	784	413.714,892	4.589.208,620	56,950
751	413.715,527	4.589.187,067	57,673	785	413.709,756	4.589.209,771	56,883
752	413.713,811	4.589.188,037	57,355	786	413.709,424	4.589.209,260	56,803
753	413.712,185	4.589.188,123	57,347	787	413.709,438	4.589.210,889	56,746
754	413.710,045	4.589.187,392	57,354	788	413.709,394	4.589.211,275	57,135
755	413.710,115	4.589.187,195	57,711	789	413.709,055	4.589.211,811	56,981
756	413.710,300	4.589.186,610	57,657	790	413.709,390	4.589.206,293	57,091
757	413.709,550	4.589.192,292	57,338	791	413.708,050	4.589.206,365	57,076
758	413.710,123	4.589.192,597	57,430	792	413.708,002	4.589.206,824	57,408
759	413.709,214	4.589.194,336	57,326	793	413.707,874	4.589.207,782	57,289
760	413.709,800	4.589.194,234	57,436	794	413.721,738	4.589.188,427	57,219
761	413.710,344	4.589.196,000	57,289	795	413.725,847	4.589.183,248	56,914
762	413.710,658	4.589.195,402	57,413	796	413.725,746	4.589.183,320	57,038
763	413.712,446	4.589.196,351	57,293	797	413.727,017	4.589.181,792	56,947
764	413.712,411	4.589.195,679	57,380	798	413.728,281	4.589.180,147	56,929
765	413.713,562	4.589.194,895	57,419	799	413.728,299	4.589.180,069	57,053
766	413.713,933	4.589.195,269	57,322	800	413.729,317	4.589.179,127	57,062
767	413.714,395	4.589.193,073	57,322	801	413.723,112	4.589.173,616	58,323
768	413.713,912	4.589.193,238	57,400	802	413.722,064	4.589.174,630	58,197
769	413.713,351	4.589.191,456	57,337	803	413.722,092	4.589.174,541	58,319
770	413.713,024	4.589.191,978	57,425	804	413.720,563	4.589.176,101	58,263
771	413.711,229	4.589.191,093	57,336	805	413.719,400	4.589.177,563	58,236
772	413.711,289	4.589.191,694	57,419	806	413.719,122	4.589.177,881	58,384
773	413.720,700	4.589.190,399	57,256	807	413.714,341	4.589.173,085	59,232
774	413.720,186	4.589.190,652	57,306	808	413.714,280	4.589.173,116	59,340
775	413.718,796	4.589.194,368	57,259	809	413.715,532	4.589.171,256	59,242
776	413.717,418	4.589.195,591	57,266	810	413.716,988	4.589.170,153	59,215
777	413.717,927	4.589.197,240	57,265	811	413.717,031	4.589.170,048	59,297
778	413.717,568	4.589.199,834	57,280	812	413.718,138	4.589.169,201	59,311
779	413.718,367	4.589.200,387	57,196	813	413.717,298	4.589.168,447	59,343
780	413.717,387	4.589.201,358	57,181	814	413.717,601	4.589.168,094	59,333
781	413.716,463	4.589.202,859	57,174	815	413.718,147	4.589.167,360	59,303
782	413.716,549	4.589.204,168	57,192	816	413.720,102	4.589.166,164	59,243
783	413.717,340	4.589.206,057	57,047	817	413.715,662	4.589.168,891	59,382

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
818	413.713,969	4.589.169,888	59,413	852	413.727,334	4.589.200,769	54,640
819	413.711,988	4.589.171,075	59,459	853	413.726,987	4.589.200,979	55,066
820	413.723,829	4.589.186,178	57,017	854	413.726,472	4.589.200,727	54,995
821	413.724,546	4.589.187,373	57,001	855	413.723,864	4.589.207,601	54,506
822	413.709,726	4.589.190,731	57,342	856	413.723,664	4.589.207,466	55,039
823	413.704,801	4.589.192,705	57,384	857	413.723,161	4.589.207,283	54,959
824	413.704,498	4.589.193,025	57,799	858	413.723,231	4.589.213,247	54,472
825	413.704,469	4.589.193,037	57,801	859	413.722,704	4.589.213,006	54,491
826	413.703,883	4.589.193,344	57,765	860	413.722,293	4.589.214,022	54,665
827	413.706,636	4.589.196,206	57,485	861	413.722,338	4.589.213,419	54,989
828	413.706,798	4.589.198,107	57,312	862	413.721,833	4.589.213,794	54,959
829	413.708,775	4.589.195,871	57,345	863	413.724,945	4.589.213,689	54,461
830	413.710,839	4.589.197,476	57,250	864	413.725,000	4.589.214,413	54,590
831	413.711,421	4.589.197,554	57,141	865	413.727,420	4.589.214,094	54,484
832	413.714,055	4.589.196,924	57,295	866	413.727,601	4.589.214,867	54,550
833	413.714,896	4.589.191,637	57,325	867	413.727,342	4.589.209,567	54,467
834	413.707,732	4.589.199,436	57,250	868	413.727,868	4.589.205,917	54,539
835	413.706,434	4.589.200,728	57,257	869	413.731,589	4.589.200,887	54,651
836	413.706,318	4.589.201,186	57,656	870	413.732,945	4.589.194,359	55,028
837	413.706,080	4.589.201,597	57,567	871	413.734,899	4.589.196,075	54,688
838	413.727,139	4.589.191,385	56,216	872	413.735,632	4.589.197,729	54,700
839	413.727,641	4.589.189,345	56,208	873	413.736,051	4.589.197,162	54,666
840	413.727,674	4.589.189,506	56,481	874	413.738,154	4.589.198,888	54,638
841	413.727,357	4.589.189,922	56,405	875	413.740,317	4.589.196,436	54,654
842	413.729,050	4.589.190,777	55,904	876	413.739,812	4.589.196,323	54,649
843	413.729,486	4.589.192,334	55,617	877	413.740,260	4.589.196,095	54,534
844	413.729,015	4.589.191,804	55,929	878	413.739,667	4.589.195,590	54,531
845	413.731,453	4.589.195,513	55,011	879	413.739,625	4.589.195,086	54,539
846	413.733,047	4.589.196,921	54,788	880	413.741,587	4.589.194,142	54,530
847	413.731,896	4.589.198,038	54,779	881	413.741,061	4.589.193,552	54,537
848	413.730,540	4.589.197,079	54,896	882	413.739,692	4.589.193,581	54,538
849	413.729,197	4.589.195,490	55,118	883	413.738,628	4.589.191,994	54,576
850	413.729,072	4.589.195,213	55,457	884	413.737,255	4.589.193,406	54,519
851	413.728,675	4.589.194,521	55,566	885	413.737,195	4.589.193,470	54,645

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
886	413.733,829	4.589.187,603	55,547	920	413.720,943	4.589.201,089	56,531
887	413.732,521	4.589.189,213	55,514	921	413.718,645	4.589.208,313	56,535
888	413.732,516	4.589.189,313	55,626	922	413.717,088	4.589.215,254	56,203
889	413.729,483	4.589.187,052	56,225	923	413.718,455	4.589.222,179	55,205
890	413.731,847	4.589.183,274	56,200	924	413.719,328	4.589.225,246	54,971
891	413.731,829	4.589.183,240	56,326	925	413.720,828	4.589.218,455	54,545
892	413.732,715	4.589.182,177	56,357	926	413.720,466	4.589.218,691	54,978
893	413.732,618	4.589.183,955	56,050	927	413.720,015	4.589.218,874	54,882
894	413.734,135	4.589.183,382	55,774	928	413.719,943	4.589.225,507	54,534
895	413.734,989	4.589.183,566	55,759	929	413.719,694	4.589.225,812	55,054
896	413.736,785	4.589.185,203	55,772	930	413.720,075	4.589.230,236	54,540
897	413.737,136	4.589.186,089	55,643	931	413.719,640	4.589.230,597	54,846
898	413.735,439	4.589.186,479	55,454	932	413.719,621	4.589.231,869	54,717
899	413.736,211	4.589.187,190	55,296	933	413.719,000	4.589.231,211	54,927
900	413.736,260	4.589.187,111	55,413	934	413.717,552	4.589.226,513	55,381
901	413.738,248	4.589.187,132	55,233	935	413.715,806	4.589.219,583	56,150
902	413.738,242	4.589.186,995	55,547	936	413.714,989	4.589.212,371	56,815
903	413.738,234	4.589.186,358	55,554	937	413.714,631	4.589.211,649	56,845
904	413.739,781	4.589.186,704	55,372	938	413.715,221	4.589.211,623	56,865
905	413.740,055	4.589.187,563	55,263	939	413.716,860	4.589.210,508	56,845
906	413.738,926	4.589.187,676	55,085	940	413.710,704	4.589.213,442	56,741
907	413.740,241	4.589.188,923	54,797	941	413.710,341	4.589.213,735	56,546
908	413.741,817	4.589.190,262	54,650	942	413.710,189	4.589.213,853	56,911
909	413.741,909	4.589.190,222	54,848	943	413.709,683	4.589.214,036	56,844
910	413.743,570	4.589.191,803	54,669	944	413.713,615	4.589.223,090	55,812
911	413.742,998	4.589.192,950	54,657	945	413.713,553	4.589.224,221	55,642
912	413.742,831	4.589.193,102	54,535	946	413.713,487	4.589.224,651	55,922
913	413.742,324	4.589.192,631	54,517	947	413.713,244	4.589.225,231	55,870
914	413.741,084	4.589.192,011	54,529	948	413.716,476	4.589.231,966	54,979
915	413.739,907	4.589.190,455	54,518	949	413.716,606	4.589.232,557	54,917
916	413.739,901	4.589.190,382	54,637	950	413.716,075	4.589.233,034	54,964
917	413.743,834	4.589.192,033	54,668	951	413.716,147	4.589.233,356	55,180
918	413.724,577	4.589.187,799	57,026	952	413.715,862	4.589.233,638	55,173
919	413.721,569	4.589.192,299	56,929	953	413.725,782	4.589.230,081	54,373

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
954	413.724,893	4.589.221,435	54,444	988	413.746,991	4.589.223,129	52,101
955	413.728,857	4.589.217,705	54,440	989	413.747,353	4.589.223,271	52,020
956	413.729,355	4.589.217,526	54,541	990	413.747,527	4.589.223,359	52,093
957	413.729,998	4.589.216,846	54,467	991	413.746,198	4.589.225,814	52,070
958	413.728,842	4.589.213,942	54,402	992	413.745,407	4.589.228,743	52,039
959	413.730,156	4.589.213,362	53,826	993	413.745,693	4.589.228,882	51,972
960	413.730,978	4.589.208,284	53,123	994	413.746,002	4.589.228,927	52,033
961	413.733,867	4.589.203,756	53,312	995	413.744,783	4.589.233,355	52,017
962	413.735,541	4.589.202,363	53,366	996	413.744,376	4.589.233,734	51,938
963	413.733,788	4.589.213,897	52,730	997	413.744,084	4.589.233,826	52,112
964	413.733,287	4.589.220,788	54,341	998	413.744,844	4.589.234,629	52,016
965	413.732,976	4.589.223,330	54,332	999	413.745,643	4.589.235,332	52,000
966	413.735,685	4.589.226,095	54,258	1000	413.745,014	4.589.235,156	52,565
967	413.738,157	4.589.227,944	54,237	1001	413.751,626	4.589.239,375	51,942
968	413.738,506	4.589.230,951	54,211	1002	413.751,691	4.589.240,161	51,856
969	413.740,787	4.589.235,067	54,102	1003	413.751,385	4.589.240,467	51,981
970	413.734,553	4.589.223,450	53,928	1004	413.758,677	4.589.245,646	51,891
971	413.734,942	4.589.221,028	53,987	1005	413.758,350	4.589.245,989	51,817
972	413.736,482	4.589.221,316	53,770	1006	413.757,590	4.589.245,871	51,920
973	413.736,155	4.589.223,780	53,730	1007	413.765,643	4.589.251,934	51,884
974	413.737,637	4.589.223,994	53,398	1008	413.765,405	4.589.252,281	51,760
975	413.738,001	4.589.221,442	53,416	1009	413.764,944	4.589.252,390	51,899
976	413.739,587	4.589.221,667	53,146	1010	413.767,404	4.589.254,295	51,816
977	413.739,140	4.589.224,224	53,094	1011	413.768,098	4.589.254,950	51,813
978	413.740,583	4.589.224,344	52,823	1012	413.767,492	4.589.254,896	52,694
979	413.741,037	4.589.221,997	52,868	1013	413.772,042	4.589.257,691	51,871
980	413.742,522	4.589.222,255	52,571	1014	413.772,049	4.589.258,020	51,708
981	413.741,989	4.589.224,757	52,682	1015	413.771,689	4.589.258,300	51,837
982	413.743,625	4.589.225,147	52,443	1016	413.780,094	4.589.264,736	51,900
983	413.744,196	4.589.222,655	52,362	1017	413.780,187	4.589.265,305	51,648
984	413.745,697	4.589.223,011	52,162	1018	413.779,970	4.589.265,638	51,736
985	413.745,095	4.589.225,485	52,210	1019	413.787,409	4.589.271,318	51,801
986	413.743,233	4.589.228,803	52,146	1020	413.787,566	4.589.271,879	51,531
987	413.742,784	4.589.232,300	52,292	1021	413.787,006	4.589.271,972	51,712

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1022	413.789,482	4.589.274,198	51,563	1056	413.743,268	4.589.237,448	54,058
1023	413.790,249	4.589.274,885	51,543	1057	413.739,520	4.589.237,086	54,186
1024	413.789,608	4.589.274,775	52,205	1058	413.734,278	4.589.237,496	54,209
1025	413.792,778	4.589.277,551	51,586	1059	413.732,622	4.589.239,459	54,193
1026	413.793,408	4.589.277,883	51,514	1060	413.730,202	4.589.248,276	54,125
1027	413.793,873	4.589.277,586	51,294	1061	413.727,627	4.589.257,586	54,143
1028	413.793,982	4.589.277,075	51,547	1062	413.725,972	4.589.263,833	54,321
1029	413.796,901	4.589.280,325	51,068	1063	413.724,156	4.589.261,579	54,387
1030	413.797,020	4.589.282,295	51,255	1064	413.723,631	4.589.261,272	54,348
1031	413.798,630	4.589.282,458	51,100	1065	413.723,589	4.589.261,533	54,061
1032	413.798,962	4.589.282,073	50,925	1066	413.723,571	4.589.261,737	54,327
1033	413.799,257	4.589.281,785	51,001	1067	413.722,186	4.589.260,900	54,169
1034	413.801,700	4.589.281,506	50,770	1068	413.722,772	4.589.260,840	54,340
1035	413.801,647	4.589.281,619	50,875	1069	413.722,800	4.589.261,527	54,311
1036	413.801,899	4.589.281,756	50,720	1070	413.722,745	4.589.262,732	54,433
1037	413.802,346	4.589.281,255	50,704	1071	413.722,064	4.589.262,640	54,545
1038	413.804,594	4.589.278,779	50,698	1072	413.721,833	4.589.262,477	54,173
1039	413.804,501	4.589.278,755	50,763	1073	413.721,469	4.589.262,527	54,563
1040	413.802,475	4.589.282,264	50,694	1074	413.721,673	4.589.257,249	54,269
1041	413.802,417	4.589.282,349	50,822	1075	413.722,368	4.589.257,151	54,412
1042	413.801,842	4.589.285,701	50,806	1076	413.721,258	4.589.252,461	54,344
1043	413.791,760	4.589.280,091	52,168	1077	413.721,838	4.589.252,351	54,498
1044	413.785,338	4.589.277,327	52,712	1078	413.725,116	4.589.251,860	54,244
1045	413.787,084	4.589.274,757	52,733	1079	413.726,675	4.589.242,700	54,217
1046	413.780,191	4.589.268,867	53,040	1080	413.720,157	4.589.243,988	54,502
1047	413.778,823	4.589.270,840	53,025	1081	413.717,700	4.589.235,872	54,731
1048	413.771,715	4.589.263,818	53,554	1082	413.717,079	4.589.236,048	54,783
1049	413.772,887	4.589.262,078	53,449	1083	413.717,103	4.589.236,297	55,023
1050	413.764,665	4.589.256,913	53,771	1084	413.716,825	4.589.236,793	54,993
1051	413.765,234	4.589.255,734	53,699	1085	413.719,678	4.589.245,037	54,543
1052	413.757,152	4.589.250,942	53,904	1086	413.719,570	4.589.245,229	54,781
1053	413.757,819	4.589.249,521	53,868	1087	413.719,286	4.589.245,549	54,774
1054	413.750,415	4.589.243,376	53,935	1088	413.720,501	4.589.249,225	54,435
1055	413.749,158	4.589.244,132	54,015	1089	413.720,191	4.589.248,714	54,782

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1090	413.719,494	4.589.248,860	54,768	1124	413.722,213	4.589.275,425	54,446
1091	413.719,429	4.589.249,304	54,634	1125	413.716,835	4.589.275,716	54,517
1092	413.719,509	4.589.249,715	54,792	1126	413.716,515	4.589.275,464	54,984
1093	413.720,145	4.589.249,910	54,696	1127	413.715,989	4.589.275,705	54,968
1094	413.720,702	4.589.255,240	54,399	1128	413.708,165	4.589.264,058	59,051
1095	413.720,455	4.589.255,449	54,761	1129	413.708,371	4.589.262,036	59,065
1096	413.720,071	4.589.255,485	54,711	1130	413.708,895	4.589.260,106	59,088
1097	413.720,436	4.589.260,671	54,505	1131	413.706,870	4.589.258,236	59,359
1098	413.720,287	4.589.261,290	54,421	1132	413.708,239	4.589.258,600	59,012
1099	413.719,852	4.589.262,150	54,692	1133	413.708,333	4.589.259,113	58,828
1100	413.719,552	4.589.260,606	54,774	1134	413.708,285	4.589.259,871	59,097
1101	413.720,039	4.589.260,338	54,800	1135	413.705,580	4.589.264,576	59,420
1102	413.719,479	4.589.261,115	54,618	1136	413.706,369	4.589.264,949	59,262
1103	413.719,420	4.589.261,932	54,973	1137	413.706,933	4.589.264,437	58,919
1104	413.719,641	4.589.264,120	54,697	1138	413.707,550	4.589.264,013	59,090
1105	413.718,974	4.589.266,043	54,705	1139	413.712,031	4.589.266,444	57,179
1106	413.720,444	4.589.266,258	54,633	1140	413.712,402	4.589.265,938	56,945
1107	413.720,837	4.589.266,424	54,258	1141	413.712,613	4.589.264,995	57,273
1108	413.721,284	4.589.266,440	54,581	1142	413.714,049	4.589.260,915	57,072
1109	413.721,801	4.589.266,545	54,506	1143	413.713,980	4.589.260,230	56,771
1110	413.720,854	4.589.268,577	54,455	1144	413.714,060	4.589.259,597	56,909
1111	413.720,190	4.589.268,857	54,275	1145	413.714,341	4.589.254,718	56,940
1112	413.719,715	4.589.268,795	54,512	1146	413.713,723	4.589.249,808	57,182
1113	413.718,602	4.589.268,851	54,522	1147	413.713,694	4.589.249,385	57,023
1114	413.717,871	4.589.267,972	54,945	1148	413.713,552	4.589.248,874	57,225
1115	413.717,920	4.589.267,299	54,814	1149	413.711,793	4.589.240,157	57,306
1116	413.718,868	4.589.267,515	54,587	1150	413.709,838	4.589.230,698	57,682
1117	413.718,128	4.589.265,998	55,065	1151	413.707,916	4.589.222,439	58,085
1118	413.718,750	4.589.272,591	54,438	1152	413.705,662	4.589.213,793	58,280
1119	413.717,671	4.589.273,384	54,465	1153	413.593,060	4.589.231,335	62,881
1120	413.718,227	4.589.274,606	54,419	1154	413.593,183	4.589.231,419	63,017
1121	413.719,206	4.589.273,873	54,439	1155	413.592,824	4.589.231,061	62,894
1122	413.718,505	4.589.273,597	54,579	1156	413.593,989	4.589.230,802	62,865
1123	413.723,905	4.589.273,882	54,405	1157	413.594,078	4.589.231,070	63,003

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1158	413.593,760	4.589.229,178	62,901	1192	413.593,045	4.589.233,662	62,983
1159	413.595,034	4.589.226,876	62,891	1193	413.594,652	4.589.232,745	63,017
1160	413.595,491	4.589.227,609	62,860	1194	413.595,366	4.589.233,847	63,024
1161	413.598,247	4.589.223,134	62,830	1195	413.595,166	4.589.233,591	63,031
1162	413.601,250	4.589.222,213	62,738	1196	413.595,858	4.589.235,615	62,997
1163	413.599,915	4.589.223,109	62,774	1197	413.592,698	4.589.236,893	62,825
1164	413.598,567	4.589.224,071	62,800	1198	413.592,743	4.589.236,912	62,947
1165	413.597,464	4.589.225,170	62,821	1199	413.592,613	4.589.238,387	62,936
1166	413.596,448	4.589.226,467	62,846	1200	413.592,536	4.589.238,453	62,802
1167	413.592,046	4.589.223,688	63,033	1201	413.593,466	4.589.238,513	62,951
1168	413.591,425	4.589.222,737	63,054	1202	413.593,316	4.589.240,603	62,907
1169	413.584,200	4.589.226,752	63,219	1203	413.592,387	4.589.240,471	62,802
1170	413.584,749	4.589.226,781	63,204	1204	413.592,471	4.589.240,535	62,935
1171	413.585,431	4.589.228,227	63,187	1205	413.592,426	4.589.241,478	62,920
1172	413.586,773	4.589.230,390	63,165	1206	413.592,285	4.589.241,530	62,794
1173	413.588,918	4.589.230,561	63,079	1207	413.592,214	4.589.242,374	62,766
1174	413.591,449	4.589.227,945	62,988	1208	413.591,291	4.589.239,899	62,851
1175	413.590,199	4.589.230,707	63,014	1209	413.590,887	4.589.239,455	62,878
1176	413.589,890	4.589.231,274	63,031	1210	413.591,872	4.589.238,643	62,846
1177	413.589,049	4.589.234,605	63,027	1211	413.584,488	4.589.241,933	63,135
1178	413.579,233	4.589.234,688	63,344	1212	413.587,697	4.589.244,742	62,881
1179	413.578,648	4.589.234,753	63,448	1213	413.588,428	4.589.244,901	62,831
1180	413.575,639	4.589.238,443	63,454	1214	413.586,337	4.589.246,079	62,873
1181	413.575,692	4.589.237,842	63,543	1215	413.588,533	4.589.247,496	62,693
1182	413.572,753	4.589.234,382	63,506	1216	413.589,195	4.589.246,511	62,721
1183	413.573,292	4.589.234,487	63,581	1217	413.591,781	4.589.248,980	62,464
1184	413.577,313	4.589.232,105	63,372	1218	413.593,355	4.589.248,164	62,450
1185	413.577,014	4.589.232,628	63,466	1219	413.593,929	4.589.246,869	62,495
1186	413.575,952	4.589.235,143	63,811	1220	413.595,782	4.589.248,133	62,319
1187	413.581,375	4.589.241,025	63,277	1221	413.598,477	4.589.251,651	61,940
1188	413.583,109	4.589.242,252	63,188	1222	413.599,537	4.589.251,744	61,874
1189	413.588,456	4.589.239,247	63,000	1223	413.600,628	4.589.250,076	61,873
1190	413.587,444	4.589.237,194	63,080	1224	413.603,259	4.589.253,017	61,573
1191	413.592,939	4.589.233,793	62,856	1225	413.604,081	4.589.255,374	61,415

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1226	413.608,207	4.589.258,145	61,023	1260	413.606,181	4.589.247,472	62,495
1227	413.609,328	4.589.258,936	61,005	1261	413.606,827	4.589.247,433	62,481
1228	413.609,827	4.589.255,667	61,006	1262	413.599,935	4.589.246,654	62,088
1229	413.610,973	4.589.256,436	61,033	1263	413.600,093	4.589.246,683	62,177
1230	413.614,356	4.589.258,653	60,730	1264	413.600,015	4.589.247,139	62,053
1231	413.615,469	4.589.259,446	60,487	1265	413.603,254	4.589.251,204	61,650
1232	413.612,720	4.589.261,117	60,727	1266	413.604,523	4.589.249,724	61,627
1233	413.613,849	4.589.261,883	60,518	1267	413.604,529	4.589.249,652	61,758
1234	413.595,743	4.589.244,378	62,479	1268	413.608,524	4.589.251,862	61,439
1235	413.595,452	4.589.243,641	62,510	1269	413.610,552	4.589.252,905	61,267
1236	413.595,610	4.589.242,988	62,599	1270	413.610,936	4.589.254,061	60,980
1237	413.594,262	4.589.242,883	62,611	1271	413.610,984	4.589.253,963	61,146
1238	413.594,310	4.589.242,836	62,741	1272	413.611,161	4.589.254,394	61,012
1239	413.594,440	4.589.242,772	62,660	1273	413.612,073	4.589.254,767	61,039
1240	413.595,313	4.589.242,236	62,680	1274	413.612,329	4.589.254,180	61,071
1241	413.595,208	4.589.242,210	62,791	1275	413.613,318	4.589.252,487	61,096
1242	413.594,766	4.589.241,452	62,837	1276	413.613,368	4.589.252,240	61,634
1243	413.596,329	4.589.238,180	62,966	1277	413.614,062	4.589.252,248	61,539
1244	413.597,177	4.589.239,930	62,911	1278	413.615,433	4.589.256,976	60,719
1245	413.597,751	4.589.240,756	62,776	1279	413.616,120	4.589.257,691	60,538
1246	413.599,807	4.589.242,688	62,645	1280	413.616,567	4.589.257,790	60,491
1247	413.597,713	4.589.240,718	62,904	1281	413.616,617	4.589.257,715	60,623
1248	413.597,634	4.589.243,338	62,534	1282	413.622,329	4.589.261,591	59,960
1249	413.597,619	4.589.243,467	62,523	1283	413.622,387	4.589.261,560	60,075
1250	413.601,064	4.589.240,473	62,846	1284	413.623,640	4.589.259,380	60,128
1251	413.601,749	4.589.241,762	62,743	1285	413.623,752	4.589.259,165	60,638
1252	413.602,502	4.589.243,105	62,650	1286	413.624,301	4.589.259,145	60,566
1253	413.603,153	4.589.244,434	62,538	1287	413.625,594	4.589.263,839	59,647
1254	413.604,331	4.589.245,786	62,555	1288	413.630,975	4.589.267,415	59,145
1255	413.605,579	4.589.246,293	62,629	1289	413.630,988	4.589.267,340	59,282
1256	413.603,132	4.589.245,720	62,449	1290	413.632,286	4.589.265,198	59,329
1257	413.604,101	4.589.246,460	62,315	1291	413.632,561	4.589.265,033	59,774
1258	413.604,506	4.589.246,946	62,217	1292	413.633,051	4.589.264,877	59,764
1259	413.606,014	4.589.247,587	62,024	1293	413.633,198	4.589.268,170	59,065

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1294	413.639,372	4.589.273,005	58,390	1328	413.654,842	4.589.292,250	56,960
1295	413.639,409	4.589.272,945	58,530	1329	413.655,942	4.589.290,540	56,965
1296	413.640,827	4.589.270,923	58,578	1330	413.652,224	4.589.289,230	57,198
1297	413.640,745	4.589.270,534	59,063	1331	413.651,395	4.589.290,543	57,172
1298	413.641,216	4.589.270,365	59,082	1332	413.652,908	4.589.287,956	57,221
1299	413.641,714	4.589.274,120	58,363	1333	413.648,704	4.589.285,155	57,534
1300	413.642,412	4.589.274,424	58,315	1334	413.647,864	4.589.284,481	57,584
1301	413.645,016	4.589.275,927	58,093	1335	413.650,329	4.589.282,675	57,489
1302	413.645,216	4.589.276,873	57,919	1336	413.645,548	4.589.283,037	57,767
1303	413.645,259	4.589.276,807	58,050	1337	413.643,942	4.589.285,496	57,728
1304	413.648,028	4.589.275,730	58,013	1338	413.640,935	4.589.283,471	57,950
1305	413.648,108	4.589.275,481	58,474	1339	413.642,555	4.589.281,056	58,005
1306	413.648,845	4.589.275,478	58,407	1340	413.644,162	4.589.278,576	57,955
1307	413.648,079	4.589.279,204	57,692	1341	413.645,924	4.589.279,085	57,833
1308	413.648,776	4.589.279,310	57,645	1342	413.637,012	4.589.273,833	58,543
1309	413.649,088	4.589.279,528	57,620	1343	413.635,373	4.589.276,275	58,598
1310	413.649,137	4.589.279,424	57,769	1344	413.627,156	4.589.270,778	59,319
1311	413.650,087	4.589.278,759	57,800	1345	413.628,730	4.589.268,272	59,294
1312	413.651,063	4.589.279,419	57,695	1346	413.624,270	4.589.268,668	59,613
1313	413.650,755	4.589.280,575	57,504	1347	413.619,778	4.589.265,854	60,015
1314	413.650,818	4.589.280,550	57,636	1348	413.621,156	4.589.263,202	59,992
1315	413.653,435	4.589.282,372	57,304	1349	413.658,630	4.589.300,820	56,610
1316	413.653,829	4.589.281,867	57,466	1350	413.652,966	4.589.297,049	56,973
1317	413.655,296	4.589.280,617	57,472	1351	413.651,977	4.589.296,401	57,116
1318	413.655,392	4.589.280,403	57,927	1352	413.651,079	4.589.295,782	57,090
1319	413.656,075	4.589.280,139	57,958	1353	413.649,344	4.589.293,865	57,291
1320	413.661,446	4.589.287,716	56,726	1354	413.648,247	4.589.293,875	57,359
1321	413.661,457	4.589.287,605	56,860	1355	413.647,840	4.589.293,643	57,389
1322	413.662,758	4.589.285,526	56,921	1356	413.646,926	4.589.292,274	57,466
1323	413.662,917	4.589.285,357	57,388	1357	413.644,623	4.589.291,491	57,597
1324	413.663,290	4.589.285,013	57,384	1358	413.639,403	4.589.287,988	57,981
1325	413.660,063	4.589.289,197	56,776	1359	413.638,974	4.589.284,622	57,960
1326	413.658,333	4.589.291,618	56,827	1360	413.638,955	4.589.284,675	58,083
1327	413.656,655	4.589.294,078	56,793	1361	413.642,296	4.589.287,606	57,830

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1362	413.642,927	4.589.287,254	57,654	1396	413.644,762	4.589.323,157	55,548
1363	413.643,644	4.589.287,731	57,598	1397	413.640,919	4.589.324,760	57,127
1364	413.643,612	4.589.287,784	57,738	1398	413.641,095	4.589.324,469	56,747
1365	413.643,295	4.589.288,935	57,737	1399	413.641,780	4.589.322,493	56,757
1366	413.644,345	4.589.289,628	57,661	1400	413.642,330	4.589.321,121	57,129
1367	413.645,314	4.589.288,838	57,483	1401	413.642,941	4.589.319,732	56,780
1368	413.645,325	4.589.288,921	57,618	1402	413.643,837	4.589.317,854	56,806
1369	413.645,960	4.589.289,243	57,436	1403	413.644,546	4.589.316,547	57,127
1370	413.645,928	4.589.289,319	57,566	1404	413.645,251	4.589.315,200	56,852
1371	413.645,984	4.589.289,952	57,552	1405	413.646,478	4.589.313,189	56,798
1372	413.649,374	4.589.292,197	57,310	1406	413.647,384	4.589.312,010	57,111
1373	413.650,033	4.589.291,970	57,135	1407	413.648,328	4.589.310,725	56,693
1374	413.650,008	4.589.292,055	57,289	1408	413.649,693	4.589.309,146	56,654
1375	413.650,227	4.589.293,130	57,247	1409	413.650,737	4.589.308,045	57,118
1376	413.650,916	4.589.293,499	57,206	1410	413.651,787	4.589.306,906	56,674
1377	413.652,780	4.589.293,800	56,955	1411	413.653,240	4.589.305,473	56,707
1378	413.652,757	4.589.293,865	57,081	1412	413.654,758	4.589.304,182	57,113
1379	413.661,022	4.589.299,311	56,396	1413	413.655,351	4.589.304,857	56,495
1380	413.660,977	4.589.299,386	56,537	1414	413.656,184	4.589.304,128	56,556
1381	413.662,172	4.589.297,662	56,429	1415	413.655,593	4.589.303,443	56,698
1382	413.664,262	4.589.295,535	56,427	1416	413.658,526	4.589.300,912	56,610
1383	413.666,509	4.589.293,477	56,343	1417	413.660,303	4.589.301,933	56,516
1384	413.667,760	4.589.291,936	56,293	1418	413.658,230	4.589.303,633	56,399
1385	413.667,769	4.589.291,836	56,430	1419	413.660,889	4.589.303,076	56,431
1386	413.669,280	4.589.289,899	56,469	1420	413.653,844	4.589.307,209	56,208
1387	413.669,358	4.589.289,645	56,980	1421	413.649,619	4.589.312,385	55,979
1388	413.669,875	4.589.289,281	56,948	1422	413.648,975	4.589.315,211	55,939
1389	413.661,282	4.589.295,320	56,560	1423	413.646,223	4.589.319,375	55,700
1390	413.659,523	4.589.294,185	56,673	1424	413.651,677	4.589.320,032	55,653
1391	413.644,747	4.589.332,289	55,209	1425	413.654,889	4.589.313,890	55,924
1392	413.642,495	4.589.329,499	55,452	1426	413.658,310	4.589.307,742	56,162
1393	413.642,711	4.589.331,201	55,266	1427	413.660,743	4.589.305,070	56,252
1394	413.643,972	4.589.326,390	55,436	1428	413.662,174	4.589.310,519	56,051
1395	413.648,236	4.589.326,192	55,449	1429	413.663,501	4.589.307,246	56,120

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1430	413.665,385	4.589.307,865	56,159	1464	413.670,069	4.589.333,580	55,540
1431	413.670,969	4.589.311,035	55,775	1465	413.665,698	4.589.331,415	55,555
1432	413.671,310	4.589.312,862	55,796	1466	413.663,722	4.589.332,889	55,510
1433	413.678,133	4.589.317,025	55,532	1467	413.659,903	4.589.329,320	55,585
1434	413.677,707	4.589.315,036	55,528	1468	413.663,690	4.589.336,232	55,466
1435	413.679,470	4.589.316,050	55,358	1469	413.658,386	4.589.337,804	55,480
1436	413.679,135	4.589.315,036	55,555	1470	413.658,763	4.589.339,776	55,453
1437	413.678,284	4.589.314,227	55,492	1471	413.657,647	4.589.340,721	55,447
1438	413.678,916	4.589.314,368	55,413	1472	413.652,719	4.589.344,267	55,395
1439	413.680,340	4.589.315,311	55,317	1473	413.654,096	4.589.346,201	55,298
1440	413.681,441	4.589.313,883	55,268	1474	413.654,395	4.589.348,351	55,628
1441	413.684,243	4.589.314,824	54,990	1475	413.652,000	4.589.346,392	55,323
1442	413.684,225	4.589.314,907	55,119	1476	413.647,435	4.589.348,582	55,280
1443	413.684,092	4.589.312,337	55,098	1477	413.647,162	4.589.349,918	55,163
1444	413.676,392	4.589.307,195	55,555	1478	413.646,981	4.589.352,815	55,208
1445	413.674,652	4.589.308,428	55,567	1479	413.643,364	4.589.355,195	55,014
1446	413.674,602	4.589.308,481	55,691	1480	413.637,380	4.589.351,846	54,536
1447	413.673,169	4.589.310,566	55,734	1481	413.642,052	4.589.343,134	54,869
1448	413.665,530	4.589.305,480	56,198	1482	413.645,174	4.589.343,076	54,939
1449	413.667,992	4.589.303,982	55,964	1483	413.651,302	4.589.339,065	55,425
1450	413.667,953	4.589.304,026	56,095	1484	413.654,587	4.589.330,426	55,523
1451	413.669,463	4.589.302,585	55,979	1485	413.654,508	4.589.328,787	55,506
1452	413.668,315	4.589.312,027	55,895	1486	413.653,379	4.589.329,297	55,515
1453	413.666,879	4.589.314,050	55,851	1487	413.654,158	4.589.329,660	55,727
1454	413.661,332	4.589.320,516	55,719	1488	413.654,024	4.589.329,150	55,509
1455	413.672,616	4.589.318,010	55,645	1489	413.653,696	4.589.329,784	55,501
1456	413.673,589	4.589.318,765	55,636	1490	413.642,304	4.589.331,879	55,253
1457	413.679,348	4.589.322,779	55,429	1491	413.642,309	4.589.331,890	55,237
1458	413.682,318	4.589.326,403	55,321	1492	413.640,841	4.589.331,045	55,329
1459	413.679,074	4.589.326,639	55,455	1493	413.640,802	4.589.331,013	55,485
1460	413.670,848	4.589.326,411	55,587	1494	413.639,729	4.589.330,400	55,545
1461	413.669,529	4.589.324,465	55,616	1495	413.639,166	4.589.330,075	55,979
1462	413.668,853	4.589.327,661	55,572	1496	413.639,500	4.589.330,046	56,452
1463	413.668,776	4.589.329,796	55,540	1497	413.640,278	4.589.327,369	56,710

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1498	413.639,095	4.589.332,043	55,546	1532	413.621,397	4.589.327,385	57,035
1499	413.638,616	4.589.331,818	55,565	1533	413.621,460	4.589.325,703	57,078
1500	413.638,579	4.589.331,807	55,980	1534	413.621,905	4.589.327,603	57,032
1501	413.637,502	4.589.331,123	56,029	1535	413.623,124	4.589.327,233	57,041
1502	413.636,999	4.589.330,948	56,065	1536	413.622,691	4.589.327,989	57,026
1503	413.636,949	4.589.330,922	56,480	1537	413.623,073	4.589.329,177	57,022
1504	413.638,050	4.589.329,426	56,029	1538	413.623,260	4.589.330,080	57,022
1505	413.637,502	4.589.329,094	56,475	1539	413.623,387	4.589.330,742	56,996
1506	413.636,472	4.589.328,494	56,520	1540	413.626,077	4.589.332,127	57,000
1507	413.635,964	4.589.330,156	56,523	1541	413.629,934	4.589.333,439	56,965
1508	413.635,424	4.589.329,986	56,550	1542	413.630,983	4.589.332,880	56,962
1509	413.635,325	4.589.329,979	56,962	1543	413.630,815	4.589.334,213	56,951
1510	413.635,865	4.589.328,108	56,968	1544	413.631,371	4.589.334,847	56,928
1511	413.635,981	4.589.327,976	56,973	1545	413.631,501	4.589.334,995	56,894
1512	413.635,098	4.589.329,901	56,977	1546	413.631,659	4.589.335,078	56,926
1513	413.634,426	4.589.330,205	56,983	1547	413.630,936	4.589.336,424	56,903
1514	413.633,724	4.589.326,643	56,986	1548	413.629,981	4.589.336,388	56,951
1515	413.633,542	4.589.326,584	56,964	1549	413.629,855	4.589.336,729	56,928
1516	413.633,405	4.589.326,563	56,996	1550	413.630,799	4.589.337,553	56,919
1517	413.632,981	4.589.330,156	56,953	1551	413.631,132	4.589.337,232	56,901
1518	413.632,798	4.589.330,208	56,931	1552	413.630,443	4.589.339,215	56,792
1519	413.632,591	4.589.330,351	56,958	1553	413.632,127	4.589.341,035	56,789
1520	413.630,098	4.589.324,472	57,126	1554	413.632,876	4.589.339,188	56,937
1521	413.626,434	4.589.322,314	57,045	1555	413.632,634	4.589.339,003	56,948
1522	413.626,525	4.589.322,801	57,044	1556	413.633,772	4.589.334,820	56,967
1523	413.626,242	4.589.323,510	57,043	1557	413.634,075	4.589.334,896	56,951
1524	413.625,508	4.589.323,855	57,043	1558	413.634,107	4.589.334,990	56,532
1525	413.626,270	4.589.322,216	57,047	1559	413.635,667	4.589.335,128	56,483
1526	413.623,546	4.589.320,615	57,087	1560	413.635,701	4.589.335,325	56,048
1527	413.623,053	4.589.320,827	57,005	1561	413.632,986	4.589.338,955	56,527
1528	413.619,000	4.589.325,184	57,080	1562	413.634,200	4.589.340,111	56,442
1529	413.618,308	4.589.325,930	57,042	1563	413.634,249	4.589.340,147	56,028
1530	413.618,874	4.589.325,883	57,060	1564	413.635,144	4.589.341,159	55,986
1531	413.619,324	4.589.326,541	57,050	1565	413.635,365	4.589.341,192	55,965

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1566	413.635,423	4.589.341,217	55,556	1600	413.650,867	4.589.357,588	53,475
1567	413.636,839	4.589.336,879	55,980	1601	413.651,097	4.589.358,093	53,407
1568	413.636,963	4.589.336,803	55,567	1602	413.652,285	4.589.360,398	53,200
1569	413.638,423	4.589.337,436	55,499	1603	413.652,290	4.589.360,251	53,338
1570	413.638,473	4.589.337,472	55,215	1604	413.655,649	4.589.364,042	53,111
1571	413.636,563	4.589.342,279	55,465	1605	413.663,740	4.589.358,059	53,153
1572	413.636,617	4.589.342,353	55,105	1606	413.661,045	4.589.353,921	53,251
1573	413.636,592	4.589.342,513	55,345	1607	413.661,071	4.589.353,819	53,384
1574	413.641,168	4.589.336,925	55,116	1608	413.659,559	4.589.351,786	53,466
1575	413.638,852	4.589.342,656	54,863	1609	413.659,032	4.589.351,166	53,536
1576	413.638,118	4.589.343,733	54,810	1610	413.666,803	4.589.345,642	53,560
1577	413.635,251	4.589.349,642	54,642	1611	413.667,185	4.589.346,238	53,511
1578	413.634,793	4.589.347,656	55,113	1612	413.668,492	4.589.348,370	53,313
1579	413.690,474	4.589.316,541	54,752	1613	413.668,459	4.589.348,315	53,435
1580	413.689,346	4.589.318,224	54,683	1614	413.671,386	4.589.352,412	53,172
1581	413.689,378	4.589.318,287	54,809	1615	413.679,175	4.589.346,427	53,207
1582	413.687,891	4.589.320,304	54,827	1616	413.676,139	4.589.342,751	53,354
1583	413.686,179	4.589.321,721	55,106	1617	413.676,104	4.589.342,665	53,487
1584	413.683,963	4.589.321,163	55,240	1618	413.674,865	4.589.340,534	53,573
1585	413.687,504	4.589.324,707	55,135	1619	413.674,365	4.589.339,393	53,759
1586	413.689,306	4.589.325,232	55,005	1620	413.682,497	4.589.335,498	53,788
1587	413.689,057	4.589.328,007	54,842	1621	413.682,908	4.589.336,019	53,715
1588	413.682,673	4.589.331,922	54,948	1622	413.683,747	4.589.337,537	53,651
1589	413.680,723	4.589.329,680	55,231	1623	413.684,057	4.589.338,251	53,503
1590	413.674,042	4.589.336,608	54,942	1624	413.681,323	4.589.339,767	53,455
1591	413.673,039	4.589.335,266	55,137	1625	413.682,264	4.589.341,531	53,409
1592	413.672,197	4.589.334,582	55,042	1626	413.684,203	4.589.343,953	53,281
1593	413.665,374	4.589.342,634	55,005	1627	413.689,316	4.589.341,060	53,381
1594	413.664,053	4.589.341,834	55,165	1628	413.692,769	4.589.339,027	53,426
1595	413.662,536	4.589.342,689	55,178	1629	413.694,681	4.589.337,987	53,458
1596	413.655,494	4.589.350,049	54,957	1630	413.691,267	4.589.336,122	53,576
1597	413.654,638	4.589.348,864	55,138	1631	413.687,762	4.589.338,448	53,502
1598	413.646,932	4.589.354,689	55,132	1632	413.687,186	4.589.336,475	53,556
1599	413.647,744	4.589.356,023	54,960	1633	413.687,161	4.589.336,400	53,695

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1634	413.686,979	4.589.335,266	53,732	1668	413.697,575	4.589.335,425	53,555
1635	413.688,418	4.589.331,720	53,972	1669	413.698,266	4.589.335,934	53,518
1636	413.688,800	4.589.332,715	53,848	1670	413.701,808	4.589.333,893	53,537
1637	413.689,087	4.589.334,055	53,783	1671	413.700,956	4.589.333,041	53,601
1638	413.690,051	4.589.334,919	53,606	1672	413.700,242	4.589.332,086	53,676
1639	413.690,021	4.589.334,813	53,736	1673	413.705,179	4.589.330,238	53,624
1640	413.690,487	4.589.334,910	53,617	1674	413.704,437	4.589.326,112	53,852
1641	413.692,508	4.589.333,528	53,682	1675	413.708,862	4.589.325,302	53,706
1642	413.692,445	4.589.333,465	53,807	1676	413.709,807	4.589.329,262	53,487
1643	413.693,261	4.589.333,269	53,712	1677	413.708,907	4.589.328,816	53,543
1644	413.693,897	4.589.333,562	53,709	1678	413.705,807	4.589.329,441	53,631
1645	413.691,516	4.589.331,105	53,913	1679	413.705,361	4.589.326,475	53,808
1646	413.691,105	4.589.329,695	54,006	1680	413.708,287	4.589.326,028	53,704
1647	413.693,685	4.589.326,649	54,230	1681	413.702,468	4.589.321,124	54,158
1648	413.691,883	4.589.326,377	54,272	1682	413.701,840	4.589.321,566	54,163
1649	413.691,520	4.589.322,726	54,591	1683	413.701,292	4.589.322,139	54,165
1650	413.689,538	4.589.322,864	54,659	1684	413.699,455	4.589.319,601	54,335
1651	413.690,827	4.589.321,930	54,635	1685	413.699,993	4.589.319,332	54,323
1652	413.692,526	4.589.320,324	54,472	1686	413.702,023	4.589.319,324	54,213
1653	413.692,539	4.589.320,424	54,608	1687	413.702,665	4.589.318,329	54,188
1654	413.693,559	4.589.319,008	54,534	1688	413.699,264	4.589.316,964	54,395
1655	413.696,705	4.589.322,617	54,273	1689	413.695,362	4.589.316,288	54,597
1656	413.695,368	4.589.323,543	54,246	1690	413.692,154	4.589.314,106	54,788
1657	413.695,326	4.589.323,592	54,383	1691	413.688,998	4.589.311,931	54,937
1658	413.698,469	4.589.327,680	53,993	1692	413.685,659	4.589.309,816	55,141
1659	413.697,878	4.589.327,132	54,033	1693	413.676,003	4.589.303,415	55,690
1660	413.696,199	4.589.327,145	54,052	1694	413.677,693	4.589.300,993	55,670
1661	413.696,160	4.589.327,144	54,180	1695	413.681,103	4.589.300,801	55,491
1662	413.694,713	4.589.330,391	54,004	1696	413.680,632	4.589.300,536	55,532
1663	413.695,166	4.589.330,761	53,856	1697	413.680,702	4.589.300,412	55,660
1664	413.697,091	4.589.329,567	53,909	1698	413.682,420	4.589.298,683	55,615
1665	413.697,802	4.589.330,869	53,826	1699	413.682,031	4.589.298,377	55,708
1666	413.698,738	4.589.331,626	53,736	1700	413.681,296	4.589.296,830	55,769
1667	413.695,999	4.589.334,057	53,649	1701	413.680,457	4.589.296,935	55,932

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1702	413.677,411	4.589.295,459	55,983	1736	413.705,455	4.589.280,988	56,934
1703	413.674,780	4.589.295,888	56,053	1737	413.704,413	4.589.272,642	58,715
1704	413.671,974	4.589.297,130	56,009	1738	413.698,511	4.589.279,100	59,108
1705	413.672,791	4.589.295,285	55,987	1739	413.693,847	4.589.281,085	59,362
1706	413.672,833	4.589.295,214	56,132	1740	413.694,119	4.589.281,467	59,175
1707	413.673,984	4.589.292,970	56,196	1741	413.695,608	4.589.282,532	59,115
1708	413.674,223	4.589.292,853	56,647	1742	413.695,237	4.589.282,846	58,988
1709	413.675,126	4.589.292,668	56,639	1743	413.694,878	4.589.283,196	59,133
1710	413.680,302	4.589.295,124	55,848	1744	413.692,304	4.589.285,209	59,232
1711	413.680,275	4.589.294,773	56,251	1745	413.687,117	4.589.287,754	59,296
1712	413.680,469	4.589.294,124	56,290	1746	413.690,229	4.589.290,558	57,576
1713	413.683,197	4.589.295,388	55,531	1747	413.697,050	4.589.288,572	57,155
1714	413.684,661	4.589.295,534	55,406	1748	413.698,308	4.589.287,352	57,068
1715	413.684,109	4.589.295,129	55,899	1749	413.698,767	4.589.287,192	56,909
1716	413.683,828	4.589.294,724	55,927	1750	413.698,965	4.589.286,901	57,031
1717	413.693,096	4.589.299,104	54,918	1751	413.704,628	4.589.296,658	54,654
1718	413.692,769	4.589.295,039	54,925	1752	413.705,636	4.589.302,074	54,615
1719	413.692,889	4.589.294,801	55,437	1753	413.712,474	4.589.302,885	54,515
1720	413.692,866	4.589.294,161	55,424	1754	413.722,959	4.589.309,709	54,129
1721	413.701,686	4.589.292,925	54,709	1755	413.731,777	4.589.315,356	53,558
1722	413.702,521	4.589.292,366	54,726	1756	413.740,013	4.589.320,890	52,879
1723	413.702,113	4.589.292,210	55,079	1757	413.749,782	4.589.327,161	52,149
1724	413.702,815	4.589.291,734	55,098	1758	413.757,525	4.589.332,417	51,743
1725	413.702,243	4.589.291,144	55,090	1759	413.750,167	4.589.341,538	51,894
1726	413.701,793	4.589.291,375	54,979	1760	413.744,788	4.589.338,928	52,224
1727	413.701,441	4.589.291,607	55,106	1761	413.731,156	4.589.328,580	53,095
1728	413.709,954	4.589.285,645	55,046	1762	413.713,403	4.589.317,229	54,409
1729	413.710,536	4.589.285,676	55,007	1763	413.698,910	4.589.303,615	54,801
1730	413.710,848	4.589.285,729	54,575	1764	413.692,710	4.589.304,018	55,356
1731	413.715,445	4.589.281,961	54,600	1765	413.686,245	4.589.301,207	55,381
1732	413.714,264	4.589.281,221	54,533	1766	413.684,586	4.589.303,142	55,283
1733	413.713,666	4.589.281,382	55,064	1767	413.687,774	4.589.305,274	55,080
1734	413.713,112	4.589.281,330	55,054	1768	413.688,205	4.589.305,596	55,069
1735	413.710,646	4.589.273,495	56,843	1769	413.688,229	4.589.305,520	55,193

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1770	413.689,200	4.589.303,165	55,209	1804	413.716,094	4.589.323,506	53,447
1771	413.689,667	4.589.303,566	55,236	1805	413.717,129	4.589.321,884	53,479
1772	413.690,994	4.589.304,292	55,167	1806	413.717,507	4.589.321,881	53,913
1773	413.691,284	4.589.304,349	55,565	1807	413.717,775	4.589.321,429	53,911
1774	413.691,863	4.589.304,105	55,381	1808	413.720,004	4.589.328,629	53,001
1775	413.688,587	4.589.306,175	55,048	1809	413.721,006	4.589.327,575	52,950
1776	413.690,195	4.589.306,895	54,959	1810	413.721,110	4.589.327,519	53,082
1777	413.690,258	4.589.306,855	55,087	1811	413.723,241	4.589.326,011	53,058
1778	413.690,888	4.589.309,318	54,897	1812	413.723,511	4.589.325,905	53,554
1779	413.693,829	4.589.311,708	54,737	1813	413.724,393	4.589.325,896	53,497
1780	413.694,909	4.589.310,091	54,683	1814	413.724,423	4.589.329,840	52,736
1781	413.695,244	4.589.309,506	54,839	1815	413.724,477	4.589.329,770	52,867
1782	413.697,591	4.589.308,752	54,791	1816	413.723,429	4.589.331,399	52,790
1783	413.698,024	4.589.308,888	55,236	1817	413.726,585	4.589.333,655	52,570
1784	413.698,124	4.589.308,217	55,135	1818	413.727,670	4.589.332,034	52,525
1785	413.698,136	4.589.312,217	54,517	1819	413.727,719	4.589.331,962	52,653
1786	413.698,179	4.589.312,190	54,649	1820	413.729,453	4.589.330,098	52,733
1787	413.697,093	4.589.313,821	54,555	1821	413.729,437	4.589.329,834	53,210
1788	413.703,399	4.589.317,319	54,146	1822	413.730,007	4.589.329,719	53,172
1789	413.703,882	4.589.316,068	54,127	1823	413.732,450	4.589.337,602	52,153
1790	413.703,890	4.589.315,971	54,262	1824	413.732,903	4.589.335,531	52,165
1791	413.705,271	4.589.313,901	54,308	1825	413.733,013	4.589.335,497	52,293
1792	413.705,701	4.589.313,939	54,776	1826	413.736,204	4.589.334,757	52,203
1793	413.706,228	4.589.313,715	54,721	1827	413.736,412	4.589.334,561	52,677
1794	413.706,837	4.589.319,741	53,910	1828	413.737,078	4.589.334,314	52,568
1795	413.708,518	4.589.319,913	53,806	1829	413.736,712	4.589.337,309	52,074
1796	413.708,813	4.589.319,363	53,795	1830	413.741,031	4.589.343,359	51,601
1797	413.708,856	4.589.319,272	53,923	1831	413.742,005	4.589.341,599	51,570
1798	413.710,056	4.589.317,100	53,992	1832	413.742,061	4.589.341,584	51,701
1799	413.710,163	4.589.316,897	54,425	1833	413.744,842	4.589.340,444	51,654
1800	413.710,350	4.589.316,435	54,391	1834	413.745,466	4.589.340,589	52,055
1801	413.712,093	4.589.322,127	53,551	1835	413.746,381	4.589.340,571	52,001
1802	413.715,328	4.589.324,431	53,324	1836	413.754,629	4.589.344,663	51,527
1803	413.715,688	4.589.323,987	53,304	1837	413.754,128	4.589.345,913	51,528

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1838	413.753,842	4.589.346,305	51,532	1872	413.759,535	4.589.348,055	51,390
1839	413.753,897	4.589.346,488	51,052	1873	413.764,426	4.589.351,470	50,954
1840	413.751,818	4.589.348,219	50,925	1874	413.766,214	4.589.354,751	50,291
1841	413.751,887	4.589.348,117	51,057	1875	413.766,368	4.589.354,471	50,784
1842	413.750,529	4.589.349,741	50,990	1876	413.766,560	4.589.354,049	50,752
1843	413.750,414	4.589.353,173	50,917	1877	413.767,072	4.589.355,127	50,194
1844	413.742,842	4.589.348,076	51,442	1878	413.764,241	4.589.355,798	50,297
1845	413.735,405	4.589.343,089	51,908	1879	413.763,881	4.589.356,289	50,161
1846	413.731,912	4.589.340,629	52,126	1880	413.763,892	4.589.356,223	50,292
1847	413.729,552	4.589.339,180	52,301	1881	413.765,628	4.589.357,367	50,194
1848	413.724,917	4.589.336,074	52,621	1882	413.765,564	4.589.357,417	50,074
1849	413.721,770	4.589.333,940	52,866	1883	413.765,915	4.589.356,894	50,207
1850	413.718,165	4.589.331,578	53,084	1884	413.766,399	4.589.357,258	50,188
1851	413.717,631	4.589.332,198	53,081	1885	413.766,418	4.589.357,988	50,008
1852	413.714,347	4.589.331,297	53,229	1886	413.766,483	4.589.357,876	50,161
1853	413.714,680	4.589.330,410	53,254	1887	413.769,276	4.589.357,642	49,917
1854	413.714,991	4.589.329,413	53,282	1888	413.769,277	4.589.357,526	50,047
1855	413.712,664	4.589.328,096	53,423	1889	413.769,527	4.589.354,955	50,075
1856	413.769,148	4.589.362,172	49,972	1890	413.769,342	4.589.354,726	50,602
1857	413.767,544	4.589.364,650	50,025	1891	413.769,263	4.589.354,333	50,614
1858	413.765,998	4.589.360,963	50,070	1892	413.772,331	4.589.354,534	49,945
1859	413.764,827	4.589.359,286	50,114	1893	413.773,535	4.589.353,645	49,919
1860	413.763,182	4.589.361,719	50,179	1894	413.773,009	4.589.353,588	50,462
1861	413.760,251	4.589.359,721	50,330	1895	413.772,847	4.589.353,260	50,461
1862	413.761,879	4.589.357,287	50,273	1896	413.774,320	4.589.356,077	49,902
1863	413.759,077	4.589.357,808	50,419	1897	413.773,754	4.589.357,448	49,794
1864	413.755,279	4.589.354,556	50,660	1898	413.774,169	4.589.357,021	49,759
1865	413.757,601	4.589.351,511	50,715	1899	413.774,157	4.589.356,922	49,890
1866	413.756,885	4.589.350,784	50,770	1900	413.774,771	4.589.356,217	49,881
1867	413.758,591	4.589.352,762	50,485	1901	413.774,852	4.589.356,264	49,745
1868	413.758,686	4.589.352,658	50,620	1902	413.774,667	4.589.355,577	49,881
1869	413.760,122	4.589.350,625	50,687	1903	413.775,786	4.589.354,289	49,857
1870	413.759,976	4.589.350,300	51,216	1904	413.776,468	4.589.354,368	49,720
1871	413.759,727	4.589.349,606	51,272	1905	413.776,411	4.589.354,393	49,844

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1906	413.777,869	4.589.358,777	49,784	1940	413.799,026	4.589.318,613	51,107
1907	413.780,392	4.589.355,747	49,739	1941	413.791,968	4.589.327,486	51,078
1908	413.782,162	4.589.354,575	49,712	1942	413.790,915	4.589.327,662	51,151
1909	413.778,477	4.589.351,399	49,809	1943	413.788,188	4.589.332,378	51,106
1910	413.782,061	4.589.347,940	49,612	1944	413.781,391	4.589.340,315	51,073
1911	413.782,010	4.589.347,862	49,735	1945	413.777,648	4.589.343,660	51,025
1912	413.780,310	4.589.346,161	49,808	1946	413.773,846	4.589.347,639	51,049
1913	413.780,187	4.589.345,705	50,361	1947	413.770,104	4.589.352,127	51,033
1914	413.779,842	4.589.345,221	50,360	1948	413.767,807	4.589.352,793	50,969
1915	413.786,541	4.589.337,607	50,202	1949	413.760,267	4.589.329,024	51,808
1916	413.787,026	4.589.337,834	50,221	1950	413.768,022	4.589.319,588	51,917
1917	413.787,185	4.589.338,226	49,643	1951	413.776,081	4.589.310,627	51,906
1918	413.789,276	4.589.339,631	49,456	1952	413.779,152	4.589.318,841	51,759
1919	413.789,218	4.589.339,588	49,586	1953	413.771,493	4.589.327,704	51,560
1920	413.791,056	4.589.343,813	49,561	1954	413.764,374	4.589.338,050	51,464
1921	413.791,584	4.589.343,172	49,548	1955	413.769,677	4.589.368,091	49,972
1922	413.794,831	4.589.339,399	49,493	1956	413.771,796	4.589.367,355	49,931
1923	413.799,568	4.589.334,444	49,410	1957	413.772,925	4.589.370,607	49,888
1924	413.796,541	4.589.331,283	49,348	1958	413.773,043	4.589.370,732	49,990
1925	413.796,190	4.589.331,038	49,516	1959	413.773,845	4.589.370,394	49,988
1926	413.794,560	4.589.329,661	49,571	1960	413.773,984	4.589.371,820	50,017
1927	413.794,328	4.589.329,379	50,194	1961	413.774,825	4.589.372,846	50,015
1928	413.793,913	4.589.329,039	50,149	1962	413.779,916	4.589.367,018	49,934
1929	413.801,213	4.589.320,733	49,918	1963	413.779,398	4.589.365,594	49,906
1930	413.801,742	4.589.320,849	49,944	1964	413.779,087	4.589.365,533	49,911
1931	413.801,966	4.589.321,194	49,383	1965	413.777,462	4.589.365,640	49,900
1932	413.803,717	4.589.323,086	49,216	1966	413.778,944	4.589.363,949	49,883
1933	413.803,640	4.589.323,046	49,346	1967	413.778,845	4.589.363,847	49,784
1934	413.805,622	4.589.327,649	49,306	1968	413.774,105	4.589.363,083	49,891
1935	413.809,213	4.589.327,960	49,279	1969	413.780,934	4.589.361,439	49,740
1936	413.809,794	4.589.328,374	49,265	1970	413.780,948	4.589.361,476	49,847
1937	413.809,890	4.589.328,381	49,404	1971	413.781,613	4.589.361,499	49,861
1938	413.811,139	4.589.329,260	49,428	1972	413.783,235	4.589.359,647	49,864
1939	413.812,273	4.589.330,042	49,427	1973	413.783,094	4.589.359,001	49,731

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
1974	413.783,117	4.589.359,045	49,853	2008	413.807,872	4.589.313,851	49,763
1975	413.784,675	4.589.357,125	49,700	2009	413.807,673	4.589.312,961	49,702
1976	413.784,865	4.589.357,157	49,829	2010	413.806,735	4.589.310,135	51,015
1977	413.784,784	4.589.359,389	49,871	2011	413.809,789	4.589.306,061	50,759
1978	413.785,739	4.589.360,348	49,893	2012	413.811,925	4.589.303,782	50,735
1979	413.788,156	4.589.357,592	49,796	2013	413.811,264	4.589.300,741	50,533
1980	413.787,087	4.589.356,701	49,831	2014	413.810,522	4.589.297,655	50,938
1981	413.786,015	4.589.355,572	49,666	2015	413.805,592	4.589.303,195	51,210
1982	413.786,077	4.589.355,651	49,793	2016	413.801,014	4.589.297,370	51,569
1983	413.790,310	4.589.355,118	49,604	2017	413.805,041	4.589.293,931	51,060
1984	413.789,107	4.589.352,010	49,636	2018	413.799,618	4.589.289,470	51,321
1985	413.795,283	4.589.344,986	49,527	2019	413.793,176	4.589.292,115	52,125
1986	413.795,380	4.589.344,983	49,691	2020	413.787,430	4.589.298,326	52,110
1987	413.796,262	4.589.346,263	49,721	2021	413.790,754	4.589.301,785	51,941
1988	413.798,004	4.589.346,322	49,739	2022	413.793,431	4.589.288,301	51,883
1989	413.798,555	4.589.341,301	49,462	2023	413.794,290	4.589.284,842	51,555
1990	413.798,647	4.589.341,301	49,603	2024	413.801,425	4.589.285,887	50,666
1991	413.799,647	4.589.342,381	49,645	2025	413.801,266	4.589.286,274	50,743
1992	413.800,760	4.589.343,187	49,648	2026	413.801,478	4.589.288,659	50,711
1993	413.802,605	4.589.336,813	49,561	2027	413.804,295	4.589.290,888	50,289
1994	413.804,750	4.589.334,254	49,351	2028	413.805,010	4.589.289,892	50,222
1995	413.804,775	4.589.334,331	49,488	2029	413.805,507	4.589.289,407	50,417
1996	413.805,843	4.589.335,331	49,521	2030	413.805,784	4.589.289,141	50,506
1997	413.806,299	4.589.336,857	49,543	2031	413.807,711	4.589.286,923	50,475
1998	413.808,668	4.589.331,643	49,482	2032	413.807,694	4.589.287,000	50,626
1999	413.812,947	4.589.328,562	49,414	2033	413.811,971	4.589.290,686	49,673
2000	413.816,571	4.589.325,160	49,356	2034	413.811,931	4.589.290,749	49,798
2001	413.816,022	4.589.323,649	49,355	2035	413.810,187	4.589.293,103	49,799
2002	413.814,491	4.589.323,272	49,352	2036	413.810,276	4.589.293,411	49,756
2003	413.814,193	4.589.323,356	49,203	2037	413.809,946	4.589.294,424	49,452
2004	413.811,430	4.589.319,620	49,174	2038	413.809,648	4.589.294,776	49,551
2005	413.810,016	4.589.315,907	49,066	2039	413.813,493	4.589.297,066	49,248
2006	413.810,043	4.589.315,752	49,201	2040	413.815,240	4.589.298,934	49,363
2007	413.808,141	4.589.314,095	49,287	2041	413.816,910	4.589.300,483	49,969

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2042	413.815,918	4.589.301,902	49,690	2076	413.819,246	4.589.293,078	48,900
2043	413.816,506	4.589.302,379	49,661	2077	413.821,502	4.589.295,042	48,852
2044	413.816,525	4.589.303,848	49,646	2078	413.825,380	4.589.298,346	48,842
2045	413.812,913	4.589.307,670	49,617	2079	413.828,499	4.589.299,738	48,860
2046	413.812,907	4.589.308,132	49,674	2080	413.825,499	4.589.303,906	48,911
2047	413.813,281	4.589.308,245	49,182	2081	413.822,880	4.589.306,946	48,948
2048	413.813,960	4.589.310,737	49,139	2082	413.823,816	4.589.309,469	48,972
2049	413.814,625	4.589.310,613	48,977	2083	413.817,095	4.589.312,632	49,035
2050	413.819,124	4.589.305,465	48,893	2084	413.816,612	4.589.316,408	49,060
2051	413.819,215	4.589.305,269	49,030	2085	413.816,178	4.589.318,145	49,089
2052	413.817,459	4.589.303,516	49,069	2086	413.816,387	4.589.320,793	49,101
2053	413.817,688	4.589.301,894	49,096	2087	413.816,510	4.589.320,863	49,275
2054	413.816,852	4.589.301,994	49,088	2088	413.820,501	4.589.318,120	49,253
2055	413.817,956	4.589.300,447	49,078	2089	413.821,021	4.589.317,978	49,255
2056	413.821,361	4.589.302,973	48,850	2090	413.822,130	4.589.318,754	49,258
2057	413.821,282	4.589.302,885	48,988	2091	413.820,567	4.589.316,060	49,062
2058	413.822,130	4.589.300,993	48,834	2092	413.826,170	4.589.309,616	48,934
2059	413.821,131	4.589.298,733	48,837	2093	413.826,279	4.589.309,747	49,089
2060	413.821,027	4.589.298,733	48,981	2094	413.827,074	4.589.310,988	49,133
2061	413.820,321	4.589.298,605	48,976	2095	413.828,073	4.589.311,955	49,153
2062	413.819,113	4.589.296,905	48,856	2096	413.828,737	4.589.306,686	48,914
2063	413.819,030	4.589.297,012	48,992	2097	413.828,788	4.589.306,743	49,054
2064	413.818,545	4.589.297,467	48,998	2098	413.832,112	4.589.302,824	48,899
2065	413.816,415	4.589.298,539	49,080	2099	413.832,226	4.589.302,896	49,048
2066	413.815,780	4.589.298,572	49,097	2100	413.832,437	4.589.302,852	49,056
2067	413.817,040	4.589.296,155	49,033	2101	413.834,214	4.589.300,448	48,812
2068	413.817,521	4.589.295,615	48,867	2102	413.834,278	4.589.300,496	48,964
2069	413.817,415	4.589.295,602	49,009	2103	413.835,362	4.589.301,491	49,023
2070	413.816,081	4.589.294,259	48,896	2104	413.836,439	4.589.302,393	49,016
2071	413.815,951	4.589.294,301	49,018	2105	413.832,488	4.589.295,278	48,804
2072	413.814,191	4.589.296,658	49,228	2106	413.829,967	4.589.293,108	48,773
2073	413.812,814	4.589.287,393	49,922	2107	413.829,649	4.589.292,759	48,895
2074	413.817,031	4.589.289,189	49,273	2108	413.829,263	4.589.293,869	48,759
2075	413.817,926	4.589.291,897	49,006	2109	413.829,218	4.589.293,812	48,893

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2110	413.824,993	4.589.294,140	48,798	2144	413.858,740	4.589.371,520	46,007
2111	413.824,229	4.589.293,878	48,805	2145	413.862,517	4.589.373,029	46,001
2112	413.824,106	4.589.294,772	48,798	2146	413.863,593	4.589.373,387	45,900
2113	413.825,029	4.589.293,501	48,947	2147	413.863,169	4.589.374,293	45,911
2114	413.824,512	4.589.292,951	48,942	2148	413.870,526	4.589.376,053	45,560
2115	413.823,114	4.589.292,525	48,824	2149	413.874,931	4.589.377,815	45,839
2116	413.823,197	4.589.292,470	48,953	2150	413.878,765	4.589.379,271	44,907
2117	413.823,673	4.589.291,854	48,956	2151	413.882,852	4.589.378,974	44,676
2118	413.822,146	4.589.290,548	48,985	2152	413.878,357	4.589.381,331	45,197
2119	413.821,572	4.589.291,199	48,850	2153	413.874,325	4.589.382,322	46,150
2120	413.821,600	4.589.291,120	48,988	2154	413.868,216	4.589.382,649	46,111
2121	413.820,130	4.589.289,788	49,010	2155	413.861,783	4.589.385,760	46,401
2122	413.820,066	4.589.289,868	48,872	2156	413.863,966	4.589.372,290	45,722
2123	413.815,601	4.589.285,907	49,714	2157	413.859,090	4.589.370,520	45,954
2124	413.815,647	4.589.285,872	49,854	2158	413.871,362	4.589.362,458	45,398
2125	413.811,610	4.589.282,221	50,622	2159	413.872,007	4.589.360,494	45,326
2126	413.811,503	4.589.282,269	50,492	2160	413.870,058	4.589.359,827	45,516
2127	413.811,606	4.589.280,369	50,505	2161	413.869,388	4.589.361,780	45,572
2128	413.808,754	4.589.284,471	50,508	2162	413.870,175	4.589.361,380	45,615
2129	413.805,877	4.589.277,342	50,695	2163	413.870,976	4.589.361,640	45,527
2130	413.805,845	4.589.277,281	50,834	2164	413.877,436	4.589.364,711	45,095
2131	413.881,520	4.589.385,075	46,377	2165	413.879,488	4.589.362,415	45,084
2132	413.875,466	4.589.388,163	46,779	2166	413.881,892	4.589.364,985	44,996
2133	413.874,270	4.589.388,468	46,753	2167	413.879,663	4.589.365,333	45,329
2134	413.873,378	4.589.389,218	46,885	2168	413.875,045	4.589.371,925	45,246
2135	413.868,231	4.589.391,894	46,969	2169	413.876,568	4.589.372,541	45,435
2136	413.862,239	4.589.395,128	47,018	2170	413.879,839	4.589.373,546	44,865
2137	413.860,798	4.589.394,135	46,953	2171	413.880,414	4.589.374,377	44,860
2138	413.860,467	4.589.395,917	46,984	2172	413.882,957	4.589.365,757	44,900
2139	413.859,588	4.589.396,001	46,986	2173	413.885,520	4.589.357,895	44,810
2140	413.859,099	4.589.396,623	46,979	2174	413.879,983	4.589.354,800	44,927
2141	413.858,153	4.589.391,130	46,654	2175	413.883,585	4.589.344,683	45,084
2142	413.857,863	4.589.384,058	46,474	2176	413.889,079	4.589.347,380	44,870
2143	413.857,934	4.589.377,335	46,175	2177	413.892,136	4.589.338,228	44,937

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2178	413.887,218	4.589.336,639	45,078	2212	413.901,910	4.589.285,094	45,894
2179	413.889,792	4.589.328,230	45,257	2213	413.897,772	4.589.282,963	46,051
2180	413.893,345	4.589.329,172	45,122	2214	413.896,680	4.589.286,444	46,196
2181	413.894,830	4.589.330,019	45,005	2215	413.894,867	4.589.285,892	46,094
2182	413.897,909	4.589.320,482	45,229	2216	413.896,252	4.589.294,220	45,908
2183	413.893,285	4.589.318,661	45,342	2217	413.891,441	4.589.293,334	46,258
2184	413.896,778	4.589.308,021	45,462	2218	413.890,289	4.589.288,419	46,297
2185	413.901,323	4.589.310,479	45,372	2219	413.880,414	4.589.279,767	46,782
2186	413.904,407	4.589.301,084	45,561	2220	413.874,442	4.589.287,383	47,428
2187	413.904,663	4.589.300,221	45,570	2221	413.878,841	4.589.290,717	47,230
2188	413.897,813	4.589.298,068	45,701	2222	413.881,120	4.589.293,432	47,492
2189	413.901,958	4.589.289,040	45,810	2223	413.886,542	4.589.294,452	47,516
2190	413.907,637	4.589.291,204	45,657	2224	413.886,053	4.589.296,502	47,472
2191	413.910,790	4.589.281,865	45,804	2225	413.881,397	4.589.299,927	47,429
2192	413.905,263	4.589.279,764	45,815	2226	413.875,831	4.589.295,101	47,496
2193	413.908,377	4.589.272,197	46,072	2227	413.871,447	4.589.290,713	47,649
2194	413.915,013	4.589.268,780	46,138	2228	413.871,838	4.589.299,651	47,721
2195	413.910,218	4.589.266,972	46,169	2229	413.876,115	4.589.303,918	47,675
2196	413.904,400	4.589.262,284	46,097	2230	413.871,722	4.589.307,663	47,662
2197	413.902,472	4.589.260,631	46,003	2231	413.864,825	4.589.305,535	47,487
2198	413.898,396	4.589.257,994	45,937	2232	413.861,012	4.589.302,545	47,653
2199	413.896,880	4.589.256,938	46,131	2233	413.856,803	4.589.307,357	47,619
2200	413.899,487	4.589.268,926	46,532	2234	413.862,649	4.589.313,329	47,403
2201	413.892,538	4.589.263,866	46,079	2235	413.868,272	4.589.315,796	47,489
2202	413.890,168	4.589.267,081	46,308	2236	413.860,843	4.589.324,470	47,377
2203	413.893,382	4.589.266,985	46,555	2237	413.857,284	4.589.322,490	47,372
2204	413.885,848	4.589.272,880	46,745	2238	413.855,144	4.589.321,325	47,237
2205	413.890,189	4.589.279,396	46,631	2239	413.848,073	4.589.317,356	47,462
2206	413.890,026	4.589.282,663	46,496	2240	413.843,696	4.589.322,136	47,165
2207	413.893,276	4.589.282,651	46,223	2241	413.847,464	4.589.326,864	46,760
2208	413.893,448	4.589.279,618	46,640	2242	413.841,004	4.589.334,357	46,232
2209	413.891,343	4.589.281,495	46,860	2243	413.834,988	4.589.331,890	46,950
2210	413.891,404	4.589.280,747	46,863	2244	413.829,226	4.589.338,289	46,918
2211	413.904,550	4.589.280,925	45,837	2245	413.835,733	4.589.341,483	46,816

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2246	413.832,595	4.589.348,413	46,988	2280	413.837,491	4.589.355,451	47,202
2247	413.826,107	4.589.341,768	46,951	2281	413.844,918	4.589.361,350	46,665
2248	413.819,670	4.589.348,705	46,881	2282	413.843,621	4.589.365,663	46,666
2249	413.817,153	4.589.355,420	47,042	2283	413.849,338	4.589.367,828	46,506
2250	413.825,748	4.589.358,803	46,965	2284	413.855,814	4.589.370,310	46,207
2251	413.830,268	4.589.357,915	47,462	2285	413.848,780	4.589.356,881	46,587
2252	413.830,638	4.589.359,848	46,988	2286	413.853,841	4.589.353,292	46,067
2253	413.828,794	4.589.358,983	46,887	2287	413.857,529	4.589.347,489	45,670
2254	413.829,251	4.589.356,411	46,903	2288	413.857,894	4.589.339,841	45,806
2255	413.833,234	4.589.355,755	46,750	2289	413.858,952	4.589.334,462	46,024
2256	413.832,970	4.589.353,158	46,758	2290	413.861,403	4.589.335,236	45,936
2257	413.832,815	4.589.351,456	47,399	2291	413.862,318	4.589.327,706	46,163
2258	413.832,986	4.589.349,451	47,008	2292	413.868,043	4.589.323,410	46,145
2259	413.828,661	4.589.353,638	47,344	2293	413.870,194	4.589.327,035	45,898
2260	413.828,598	4.589.352,099	46,909	2294	413.870,752	4.589.325,375	45,935
2261	413.827,168	4.589.354,291	46,958	2295	413.870,787	4.589.324,908	45,948
2262	413.828,533	4.589.355,509	46,921	2296	413.871,569	4.589.323,280	45,980
2263	413.835,783	4.589.362,655	46,901	2297	413.870,557	4.589.320,040	46,148
2264	413.834,791	4.589.358,181	47,535	2298	413.871,825	4.589.316,185	46,233
2265	413.842,784	4.589.360,168	47,066	2299	413.870,917	4.589.314,347	46,334
2266	413.847,715	4.589.355,151	47,159	2300	413.873,155	4.589.309,735	46,401
2267	413.851,669	4.589.350,340	47,097	2301	413.877,206	4.589.305,592	46,744
2268	413.854,321	4.589.345,155	46,921	2302	413.881,443	4.589.305,136	46,453
2269	413.855,161	4.589.338,750	46,778	2303	413.886,895	4.589.300,877	46,318
2270	413.858,191	4.589.330,612	46,907	2304	413.893,166	4.589.305,999	45,882
2271	413.856,175	4.589.328,255	47,145	2305	413.889,231	4.589.314,693	45,766
2272	413.852,851	4.589.333,133	46,660	2306	413.881,794	4.589.310,370	46,185
2273	413.851,124	4.589.335,904	46,823	2307	413.877,948	4.589.318,970	45,949
2274	413.846,527	4.589.335,090	46,783	2308	413.886,797	4.589.323,883	45,646
2275	413.843,758	4.589.339,322	47,123	2309	413.883,599	4.589.328,800	45,677
2276	413.843,910	4.589.342,865	47,563	2310	413.882,963	4.589.330,422	45,670
2277	413.840,510	4.589.343,625	47,480	2311	413.881,689	4.589.333,163	45,611
2278	413.837,252	4.589.348,385	47,628	2312	413.880,960	4.589.334,801	45,575
2279	413.836,820	4.589.351,480	47,590	2313	413.880,069	4.589.336,012	45,534

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2314	413.879,772	4.589.337,618	45,531	2348	413.875,800	4.589.333,677	45,578
2315	413.879,002	4.589.339,220	45,522	2349	413.874,521	4.589.332,940	45,616
2316	413.887,228	4.589.329,926	45,366	2350	413.873,497	4.589.332,632	45,639
2317	413.884,057	4.589.337,665	45,432	2351	413.873,103	4.589.333,464	45,627
2318	413.879,062	4.589.345,535	45,407	2352	413.878,513	4.589.324,187	45,781
2319	413.877,957	4.589.349,437	45,340	2353	413.861,146	4.589.352,082	45,505
2320	413.877,412	4.589.348,613	45,352	2354	413.860,355	4.589.360,746	45,849
2321	413.877,075	4.589.349,546	45,335	2355	413.865,657	4.589.366,075	45,641
2322	413.875,978	4.589.349,134	45,342	2356	413.860,486	4.589.367,646	45,875
2323	413.876,365	4.589.348,208	45,353	2357	413.853,788	4.589.371,258	46,017
2324	413.876,938	4.589.348,901	45,411	2358	413.851,119	4.589.370,435	46,753
2325	413.875,341	4.589.355,102	45,251	2359	413.850,141	4.589.378,725	46,579
2326	413.865,579	4.589.352,681	45,421	2360	413.842,094	4.589.374,410	46,586
2327	413.865,796	4.589.352,191	45,395	2361	413.833,931	4.589.370,016	46,554
2328	413.866,006	4.589.351,713	45,390	2362	413.826,311	4.589.364,839	46,844
2329	413.866,224	4.589.351,197	45,389	2363	413.826,681	4.589.373,655	46,835
2330	413.866,482	4.589.350,694	45,385	2364	413.833,401	4.589.377,805	46,700
2331	413.866,707	4.589.350,199	45,380	2365	413.840,936	4.589.381,281	46,595
2332	413.866,939	4.589.349,738	45,358	2366	413.848,258	4.589.384,156	46,648
2333	413.867,603	4.589.346,873	45,430	2367	413.853,504	4.589.386,404	46,631
2334	413.865,754	4.589.346,027	45,452	2368	413.852,897	4.589.393,336	46,835
2335	413.868,259	4.589.345,455	45,444	2369	413.845,910	4.589.389,118	46,793
2336	413.869,259	4.589.345,882	45,425	2370	413.839,168	4.589.384,996	46,736
2337	413.870,561	4.589.342,356	45,504	2371	413.831,958	4.589.380,714	46,693
2338	413.870,070	4.589.342,144	45,526	2372	413.824,296	4.589.376,614	46,851
2339	413.872,080	4.589.339,106	45,525	2373	413.821,099	4.589.384,938	46,871
2340	413.871,466	4.589.338,811	45,553	2374	413.828,132	4.589.389,568	46,790
2341	413.870,737	4.589.338,498	45,579	2375	413.836,546	4.589.393,433	46,748
2342	413.870,083	4.589.338,212	45,602	2376	413.844,999	4.589.397,122	46,809
2343	413.872,160	4.589.337,417	45,597	2377	413.837,691	4.589.402,548	46,791
2344	413.872,775	4.589.337,668	45,581	2378	413.829,548	4.589.397,842	46,765
2345	413.867,490	4.589.333,400	45,929	2379	413.820,883	4.589.393,590	46,781
2346	413.873,528	4.589.335,178	45,559	2380	413.812,792	4.589.389,196	47,005
2347	413.875,371	4.589.334,514	45,548	2381	413.805,019	4.589.383,707	47,243

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2382	413.798,849	4.589.379,169	47,464	2416	413.822,684	4.589.412,343	47,216
2383	413.804,184	4.589.374,855	47,478	2417	413.825,747	4.589.411,183	46,696
2384	413.808,838	4.589.370,932	47,352	2418	413.829,133	4.589.408,283	46,579
2385	413.814,886	4.589.372,089	47,139	2419	413.831,271	4.589.407,610	47,337
2386	413.794,302	4.589.382,920	47,611	2420	413.830,995	4.589.406,010	46,748
2387	413.796,748	4.589.387,405	47,488	2421	413.832,391	4.589.408,807	46,868
2388	413.804,032	4.589.393,830	47,190	2422	413.839,348	4.589.405,596	46,717
2389	413.810,232	4.589.400,922	46,910	2423	413.839,143	4.589.404,352	47,169
2390	413.816,681	4.589.406,038	46,719	2424	413.839,189	4.589.403,661	47,030
2391	413.824,151	4.589.409,685	46,813	2425	413.844,016	4.589.402,387	46,851
2392	413.814,322	4.589.414,469	46,721	2426	413.849,452	4.589.400,437	46,834
2393	413.809,092	4.589.408,176	46,761	2427	413.812,798	4.589.383,150	46,938
2394	413.802,213	4.589.402,825	47,041	2428	413.784,245	4.589.387,974	47,758
2395	413.796,899	4.589.398,166	47,344	2429	413.792,514	4.589.379,173	47,617
2396	413.790,999	4.589.393,064	47,554	2430	413.799,566	4.589.370,897	47,409
2397	413.787,164	4.589.389,745	47,723	2431	413.803,620	4.589.366,161	47,282
2398	413.784,080	4.589.392,199	48,234	2432	413.806,802	4.589.360,973	47,173
2399	413.779,113	4.589.393,352	46,894	2433	413.807,186	4.589.361,012	47,142
2400	413.786,754	4.589.394,289	48,534	2434	413.806,513	4.589.364,224	47,091
2401	413.787,938	4.589.397,758	47,738	2435	413.809,609	4.589.367,107	47,302
2402	413.786,431	4.589.399,954	46,219	2436	413.811,601	4.589.365,199	47,178
2403	413.792,385	4.589.402,078	47,278	2437	413.816,581	4.589.369,411	47,064
2404	413.790,052	4.589.403,611	46,113	2438	413.822,248	4.589.374,187	46,811
2405	413.796,791	4.589.407,834	46,845	2439	413.824,896	4.589.371,598	46,776
2406	413.794,966	4.589.408,627	46,084	2440	413.820,084	4.589.367,115	46,959
2407	413.801,189	4.589.412,451	46,826	2441	413.814,248	4.589.363,091	47,143
2408	413.800,032	4.589.413,446	46,159	2442	413.816,351	4.589.362,072	47,110
2409	413.805,164	4.589.416,479	46,960	2443	413.821,585	4.589.365,123	46,950
2410	413.804,108	4.589.417,647	46,301	2444	413.822,500	4.589.363,435	46,947
2411	413.806,435	4.589.419,824	46,208	2445	413.817,723	4.589.358,733	46,948
2412	413.813,254	4.589.418,887	46,712	2446	413.813,135	4.589.355,164	47,103
2413	413.813,545	4.589.415,950	47,142	2447	413.814,220	4.589.354,322	47,053
2414	413.813,992	4.589.414,578	46,719	2448	413.811,855	4.589.355,681	47,187
2415	413.822,123	4.589.411,439	46,849	2449	413.811,706	4.589.355,379	47,171

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2450	413.870,040	4.589.343,321	45,535	2484	413.849,021	4.589.401,758	47,054
2451	413.870,552	4.589.341,174	45,516	2485	413.849,530	4.589.402,433	47,049
2452	413.885,129	4.589.385,351	46,100	2486	413.849,004	4.589.404,047	46,914
2453	413.884,464	4.589.383,488	46,186	2487	413.846,657	4.589.404,982	46,907
2454	413.883,512	4.589.385,611	46,216	2488	413.845,093	4.589.406,083	46,859
2455	413.882,674	4.589.386,377	46,274	2489	413.844,948	4.589.405,890	46,889
2456	413.880,912	4.589.387,294	46,399	2490	413.843,034	4.589.404,904	46,923
2457	413.879,136	4.589.388,202	46,541	2491	413.841,450	4.589.407,319	46,855
2458	413.879,042	4.589.388,528	46,535	2492	413.842,495	4.589.407,126	46,854
2459	413.877,356	4.589.389,131	46,668	2493	413.840,582	4.589.408,137	46,846
2460	413.875,578	4.589.390,044	46,792	2494	413.839,201	4.589.409,129	46,826
2461	413.875,094	4.589.389,510	46,814	2495	413.839,077	4.589.408,957	46,842
2462	413.874,488	4.589.388,670	46,826	2496	413.838,266	4.589.407,387	46,921
2463	413.874,547	4.589.390,745	46,855	2497	413.836,664	4.589.410,177	46,806
2464	413.869,339	4.589.393,507	46,904	2498	413.834,747	4.589.411,194	46,780
2465	413.869,158	4.589.393,331	46,922	2499	413.833,288	4.589.412,274	46,786
2466	413.867,858	4.589.393,448	46,930	2500	413.833,164	4.589.412,029	46,747
2467	413.867,015	4.589.394,445	46,925	2501	413.832,346	4.589.410,418	46,817
2468	413.865,835	4.589.394,917	46,944	2502	413.827,311	4.589.415,316	46,724
2469	413.864,998	4.589.393,897	46,955	2503	413.827,208	4.589.415,079	46,744
2470	413.864,260	4.589.396,134	46,938	2504	413.826,265	4.589.413,549	46,773
2471	413.864,889	4.589.395,540	46,944	2505	413.824,533	4.589.412,983	46,763
2472	413.862,784	4.589.396,612	46,950	2506	413.823,891	4.589.416,424	46,703
2473	413.860,678	4.589.397,720	46,963	2507	413.824,941	4.589.416,252	46,708
2474	413.859,737	4.589.397,917	46,966	2508	413.822,980	4.589.417,250	46,678
2475	413.861,182	4.589.397,543	46,953	2509	413.821,870	4.589.417,486	46,707
2476	413.860,472	4.589.398,127	46,953	2510	413.821,305	4.589.418,517	46,681
2477	413.858,706	4.589.398,740	46,960	2511	413.821,175	4.589.418,299	46,700
2478	413.856,489	4.589.397,910	47,016	2512	413.820,204	4.589.416,759	46,730
2479	413.856,840	4.589.399,736	46,981	2513	413.817,238	4.589.417,027	46,748
2480	413.856,942	4.589.399,940	46,958	2514	413.818,625	4.589.419,704	46,676
2481	413.854,226	4.589.401,071	46,971	2515	413.816,744	4.589.420,866	46,657
2482	413.852,444	4.589.401,990	46,955	2516	413.815,257	4.589.422,142	46,652
2483	413.849,200	4.589.401,086	46,856	2517	413.815,126	4.589.421,936	46,693

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2518	413.814,160	4.589.420,440	46,721	2553	413.766,440	4.589.292,111	53,006
2519	413.812,873	4.589.423,401	46,677	2554	413.757,699	4.589.286,631	53,574
2520	413.811,409	4.589.424,424	46,667	2555	413.749,093	4.589.281,131	53,905
2521	413.809,811	4.589.423,437	46,664	2556	413.748,555	4.589.282,232	53,901
2522	413.809,995	4.589.423,740	46,661	2557	413.740,425	4.589.275,197	54,111
2523	413.810,127	4.589.425,419	46,656	2558	413.731,924	4.589.270,345	54,274
2524	413.810,250	4.589.425,609	46,616	2559	413.733,098	4.589.259,883	54,141
2525	413.807,824	4.589.427,007	46,638	2560	413.741,070	4.589.265,821	54,062
2526	413.807,251	4.589.427,840	46,587	2561	413.749,596	4.589.271,581	53,941
2527	413.806,901	4.589.427,410	46,629	2562	413.758,377	4.589.276,697	53,805
2528	413.806,240	4.589.426,597	46,632	2563	413.766,483	4.589.282,516	53,407
2530	413.708,955	4.589.293,789	54,635	2564	413.774,492	4.589.288,485	52,823
2531	413.717,431	4.589.299,810	54,562	2565	413.782,041	4.589.292,770	52,472
2532	413.725,924	4.589.304,724	54,234	2566	413.789,255	4.589.296,067	52,172
2533	413.733,871	4.589.309,956	53,784	2567	413.794,268	4.589.290,204	52,049
2534	413.741,908	4.589.315,103	53,123	2568	413.786,880	4.589.282,506	52,647
2535	413.750,175	4.589.320,910	52,411	2569	413.778,889	4.589.276,953	53,066
2536	413.759,179	4.589.328,545	51,873	2570	413.770,736	4.589.270,398	53,540
2537	413.765,877	4.589.321,163	51,985	2571	413.762,333	4.589.264,054	53,765
2538	413.757,122	4.589.315,646	52,378	2572	413.754,326	4.589.257,796	53,920
2539	413.748,787	4.589.309,822	52,975	2573	413.745,885	4.589.251,237	53,994
2540	413.740,195	4.589.303,301	53,721	2574	413.735,201	4.589.244,505	54,167
2541	413.731,658	4.589.297,311	54,185	2575	413.769,622	4.589.393,220	48,622
2542	413.722,994	4.589.291,375	54,438	2576	413.768,804	4.589.392,635	48,622
2543	413.717,376	4.589.287,118	54,526	2577	413.765,155	4.589.389,534	48,627
2544	413.722,475	4.589.278,716	54,461	2578	413.764,429	4.589.388,833	48,626
2545	413.729,741	4.589.284,763	54,309	2579	413.770,660	4.589.381,706	48,518
2546	413.737,497	4.589.290,048	54,049	2580	413.771,239	4.589.382,578	48,522
2547	413.746,100	4.589.294,882	53,662	2581	413.774,706	4.589.385,886	48,522
2548	413.754,931	4.589.299,101	53,053	2582	413.775,416	4.589.386,595	48,523
2549	413.763,342	4.589.303,103	52,493	2583	413.780,778	4.589.380,467	48,432
2550	413.774,585	4.589.308,997	51,888	2584	413.780,019	4.589.379,813	48,431
2551	413.782,100	4.589.302,622	51,994	2585	413.776,437	4.589.376,631	48,431
2552	413.773,370	4.589.296,840	52,449	2586	413.775,688	4.589.375,960	48,430

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2587	413.777,801	4.589.373,542	48,394	2621	413.831,182	4.589.312,503	47,471
2588	413.781,012	4.589.369,868	48,340	2622	413.831,859	4.589.313,253	47,472
2589	413.781,690	4.589.370,620	48,341	2623	413.835,417	4.589.316,495	47,445
2590	413.785,975	4.589.372,999	48,334	2624	413.836,201	4.589.317,118	47,441
2591	413.786,534	4.589.373,888	48,334	2625	413.842,108	4.589.310,369	47,336
2592	413.792,635	4.589.366,911	48,236	2626	413.841,443	4.589.309,605	47,338
2593	413.791,881	4.589.366,252	48,238	2627	413.837,822	4.589.306,434	47,368
2594	413.788,420	4.589.362,917	48,223	2628	413.837,049	4.589.305,786	47,369
2595	413.787,640	4.589.362,286	48,226	2629	413.834,247	4.589.305,592	49,028
2596	413.789,650	4.589.359,983	48,191	2630	413.833,160	4.589.306,490	49,039
2597	413.793,039	4.589.356,107	48,131	2631	413.833,581	4.589.306,942	47,931
2598	413.793,636	4.589.356,944	48,136	2632	413.834,432	4.589.307,271	47,116
2599	413.798,220	4.589.360,527	48,142	2633	413.828,737	4.589.313,798	47,233
2600	413.797,825	4.589.359,450	48,137	2634	413.827,973	4.589.313,354	48,037
2601	413.804,480	4.589.353,367	48,031	2635	413.827,532	4.589.312,923	49,123
2602	413.803,783	4.589.352,642	48,029	2636	413.821,595	4.589.319,704	49,234
2603	413.802,157	4.589.347,204	47,987	2637	413.822,165	4.589.320,013	48,127
2604	413.801,503	4.589.346,432	47,983	2638	413.822,884	4.589.320,477	47,324
2605	413.807,929	4.589.339,083	47,875	2639	413.817,849	4.589.326,230	47,396
2606	413.808,734	4.589.339,692	47,874	2640	413.817,389	4.589.326,617	48,212
2607	413.812,124	4.589.343,113	47,877	2641	413.817,670	4.589.325,144	48,207
2608	413.812,839	4.589.343,816	47,878	2642	413.817,043	4.589.324,882	49,319
2609	413.818,173	4.589.337,720	47,776	2643	413.810,681	4.589.332,187	49,441
2610	413.817,359	4.589.337,129	47,779	2644	413.811,167	4.589.332,561	48,330
2611	413.814,084	4.589.333,580	47,782	2645	413.811,749	4.589.333,231	47,476
2612	413.813,348	4.589.332,887	47,780	2646	413.805,658	4.589.337,909	49,537
2613	413.819,281	4.589.326,109	47,679	2647	413.805,629	4.589.338,895	48,416
2614	413.820,005	4.589.326,816	47,682	2648	413.806,097	4.589.339,695	47,618
2615	413.823,482	4.589.330,128	47,660	2649	413.804,673	4.589.339,420	49,613
2616	413.824,509	4.589.330,476	47,654	2650	413.802,900	4.589.341,044	49,590
2617	413.830,165	4.589.324,012	47,545	2651	413.798,458	4.589.346,122	49,658
2618	413.829,523	4.589.323,228	47,544	2652	413.798,931	4.589.346,548	48,515
2619	413.825,877	4.589.320,095	47,574	2653	413.799,634	4.589.347,081	47,731
2620	413.825,199	4.589.319,339	47,572	2654	413.790,927	4.589.354,750	49,806

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2655	413.791,421	4.589.355,135	48,661	2689	413.788,520	4.589.365,585	47,512
2656	413.791,178	4.589.356,646	48,687	2690	413.788,522	4.589.365,187	48,002
2657	413.791,680	4.589.356,174	47,861	2691	413.796,704	4.589.359,371	47,982
2658	413.784,303	4.589.362,315	49,898	2692	413.796,063	4.589.358,480	47,675
2659	413.784,825	4.589.362,687	48,776	2693	413.795,665	4.589.357,768	47,878
2660	413.785,192	4.589.363,594	47,980	2694	413.795,393	4.589.357,726	47,404
2661	413.777,737	4.589.369,846	49,970	2695	413.795,306	4.589.357,444	47,886
2662	413.778,293	4.589.370,151	48,882	2696	413.803,009	4.589.352,181	47,836
2663	413.778,801	4.589.370,899	48,080	2697	413.802,388	4.589.351,238	47,540
2664	413.775,217	4.589.373,165	49,938	2698	413.801,863	4.589.350,672	47,764
2665	413.771,739	4.589.376,694	50,024	2699	413.801,765	4.589.350,471	47,271
2666	413.772,250	4.589.377,060	48,992	2700	413.801,551	4.589.350,291	47,763
2667	413.772,690	4.589.377,918	48,235	2701	413.808,625	4.589.342,246	47,647
2668	413.764,877	4.589.384,530	50,099	2702	413.808,960	4.589.342,233	47,117
2669	413.765,058	4.589.385,256	49,120	2703	413.808,942	4.589.342,583	47,646
2670	413.765,694	4.589.385,890	48,351	2704	413.809,469	4.589.343,129	47,515
2671	413.768,408	4.589.388,168	48,352	2705	413.809,987	4.589.344,168	47,731
2672	413.768,588	4.589.388,307	47,855	2706	413.817,050	4.589.336,161	47,595
2673	413.768,769	4.589.388,499	48,344	2707	413.816,287	4.589.335,343	47,400
2674	413.769,317	4.589.389,031	48,204	2708	413.815,602	4.589.334,977	47,535
2675	413.770,049	4.589.389,602	48,394	2709	413.815,503	4.589.334,741	47,064
2676	413.776,470	4.589.382,489	48,340	2710	413.815,331	4.589.334,553	47,541
2677	413.775,658	4.589.381,756	48,050	2711	413.822,371	4.589.326,478	47,415
2678	413.775,186	4.589.381,157	48,228	2712	413.822,571	4.589.326,653	46,968
2679	413.775,061	4.589.380,915	47,742	2713	413.822,666	4.589.326,878	47,422
2680	413.775,010	4.589.380,644	48,226	2714	413.823,205	4.589.327,408	47,191
2681	413.781,709	4.589.372,978	48,124	2715	413.823,967	4.589.328,218	47,415
2682	413.781,788	4.589.373,289	47,606	2716	413.833,802	4.589.317,065	47,309
2683	413.781,991	4.589.373,361	48,119	2717	413.830,150	4.589.319,466	47,055
2684	413.782,425	4.589.374,012	47,938	2718	413.829,574	4.589.318,953	47,310
2685	413.783,213	4.589.374,679	48,196	2719	413.829,391	4.589.318,869	46,872
2686	413.789,926	4.589.367,058	48,118	2720	413.829,218	4.589.318,635	47,301
2687	413.789,164	4.589.366,337	47,865	2721	413.836,806	4.589.309,980	47,169
2688	413.788,607	4.589.365,839	48,008	2722	413.837,085	4.589.310,069	46,805

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2723	413.835,577	4.589.312,103	47,208	2757	413.811,406	4.589.354,119	47,267
2724	413.838,740	4.589.309,615	46,945	2758	413.810,634	4.589.353,682	47,106
2725	413.839,688	4.589.310,301	47,168	2759	413.810,040	4.589.353,084	47,193
2726	413.841,075	4.589.312,791	47,139	2760	413.811,010	4.589.354,851	47,200
2727	413.841,684	4.589.313,873	46,657	2761	413.810,811	4.589.354,698	47,271
2728	413.842,920	4.589.313,245	46,758	2762	413.809,749	4.589.353,570	47,161
2729	413.842,528	4.589.312,947	46,748	2763	413.808,893	4.589.352,825	47,168
2730	413.842,710	4.589.312,883	47,044	2764	413.807,548	4.589.351,527	47,780
2731	413.843,313	4.589.315,065	46,550	2765	413.806,337	4.589.360,124	47,212
2732	413.843,431	4.589.316,195	46,416	2766	413.806,160	4.589.359,921	47,240
2733	413.844,110	4.589.316,811	46,619	2767	413.805,077	4.589.358,879	47,154
2734	413.837,249	4.589.324,614	46,765	2768	413.804,428	4.589.358,203	47,200
2735	413.836,582	4.589.324,208	46,529	2769	413.802,938	4.589.356,995	47,874
2736	413.835,904	4.589.323,633	46,689	2770	413.803,791	4.589.360,476	47,296
2737	413.834,337	4.589.322,090	46,854	2771	413.804,438	4.589.361,036	47,157
2738	413.833,523	4.589.321,303	47,288	2772	413.805,009	4.589.361,628	47,264
2739	413.826,494	4.589.329,696	47,377	2773	413.799,188	4.589.362,192	47,679
2740	413.826,897	4.589.330,515	47,014	2774	413.794,388	4.589.366,451	48,035
2741	413.828,017	4.589.332,271	46,814	2775	413.795,351	4.589.367,448	47,483
2742	413.828,755	4.589.332,973	46,682	2776	413.796,478	4.589.368,378	47,422
2743	413.829,983	4.589.333,913	46,826	2777	413.796,903	4.589.369,099	47,207
2744	413.822,811	4.589.342,226	46,983	2778	413.797,510	4.589.369,804	47,418
2745	413.821,553	4.589.341,258	46,818	2779	413.790,764	4.589.377,736	47,520
2746	413.820,947	4.589.340,526	46,983	2780	413.790,035	4.589.377,056	47,306
2747	413.819,742	4.589.338,703	47,082	2781	413.789,287	4.589.376,651	47,504
2748	413.818,265	4.589.338,568	47,566	2782	413.788,096	4.589.375,353	47,563
2749	413.811,981	4.589.345,956	47,683	2783	413.787,308	4.589.374,384	48,116
2750	413.813,098	4.589.346,464	47,207	2784	413.783,767	4.589.380,756	47,716
2751	413.812,901	4.589.347,581	47,287	2785	413.783,410	4.589.380,433	47,731
2752	413.812,535	4.589.347,224	47,319	2786	413.783,397	4.589.380,594	48,034
2753	413.812,714	4.589.347,196	47,504	2787	413.780,203	4.589.384,548	47,771
2754	413.814,614	4.589.347,886	47,078	2788	413.785,738	4.589.383,841	47,632
2755	413.815,184	4.589.348,557	46,984	2789	413.785,035	4.589.383,030	47,344
2756	413.815,793	4.589.349,344	47,188	2790	413.784,110	4.589.382,564	47,600

Id. de Punt	X	Y	Z	Id. de Punt	X	Y	Z
2791	413.782,345	4.589.381,529	47,652				
2792	413.781,560	4.589.380,875	48,236				
2793	413.779,688	4.589.390,493	47,764				
2794	413.778,074	4.589.390,451	47,825				
2795	413.778,213	4.589.389,170	47,835				
2796	413.778,831	4.589.389,928	47,513				
2797	413.776,472	4.589.388,365	47,858				
2798	413.775,707	4.589.387,677	48,292				
2799	413.776,795	4.589.392,095	47,965				
2800	413.773,477	4.589.395,887	47,985				
2801	413.771,816	4.589.393,772	47,980				
2802	413.771,025	4.589.392,973	48,427				
2803	413.783,755	4.589.380,600	55,253				
2804	413.781,333	4.589.378,931	53,557				
2805	413.777,065	4.589.374,854	53,610				
2806	413.775,135	4.589.373,170	55,975				
2807	413.788,299	4.589.362,232	53,402				
2808	413.792,499	4.589.366,283	53,389				
2809	413.800,081	4.589.357,728	53,245				
2810	413.796,322	4.589.353,227	53,224				
2811	413.812,971	4.589.347,041	54,749				
2812	413.811,162	4.589.345,198	53,038				
2813	413.807,196	4.589.340,928	52,935				
2814	413.804,716	4.589.339,364	55,581				
2815	413.815,011	4.589.332,052	52,828				
2816	413.820,530	4.589.334,557	52,860				
2817	413.830,206	4.589.323,544	52,652				
2818	413.826,086	4.589.319,371	52,644				
2819	413.834,250	4.589.305,425	54,993				
2820	413.836,829	4.589.307,069	52,369				
2821	413.841,337	4.589.310,902	52,412				
2822	413.842,956	4.589.312,671	54,277				



BR-1

Data:

DES. 2020

Coordenades UTM

X = 413582.144

Y = 4589246.844

Z = 63.123

Anamorf: 0.999691894

Georeferenciació

Projecció
UTM FUS 31Sistema de Coordenades
ETRS89El·lipsoide
GRS 1980

Coordenades Geogràfiques WGS84

 $\phi = 41^{\circ}27'0.55237''$ N $\lambda = 1^{\circ}57'55.41832''$ E

h = 112.479

Situació

Prov: **Barcelona**
Comarca: **Baix Llobregat**
Població: **Sant Andre de la Barca**

Descripció

Situada a la vorera del Carrer Garraf, davant la rotonda amb la intersecció amb l'Av. Constitució.

Clau d'acer senyalitzat amb pintura.



BR-2

Data:

DES. 2020

Coordenades UTM

X = 413650.319

Y = 4589206.151

Z = 61.583

Anamorf: 0.999691749

Georeferenciació

Projecció
UTM FUS 31Sistema de Coordenades
ETRS89El·lipsoide
GRS 1980

Coordenades Geogràfiques WGS84

 $\phi = 41^{\circ}26'59.25944''$ N $\lambda = 1^{\circ}57'58.37713''$ E

h = 110.939

Situació

Prov: **Barcelona**
Comarca: **Baix Llobregat**
Població: **Sant Andre de la Barca**

Descripció

Situada a la vorera de l'Av. Constitució dintre de l'espai reservat al Mercat.

Clau d'acer senyalitzat amb pintura.



BR-3

Data:

DES. 2020

Coordenades UTM

X = 413712.249

Y = 4589166.216

Z = 59.375

Anamorf: 0.999691618

Georeferenciació

Projecció
UTM FUS 31Sistema de Coordenades
ETRS89El·lipsoide
GRS 1980

Coordenades Geogràfiques WGS84

 $\phi = 41^{\circ}26'57.98865''$ N $\lambda = 1^{\circ}58'1.0664''$ E

h = 108.732

Situació

Prov: **Barcelona**
Comarca: **Baix Llobregat**
Població: **Sant Andre de la Barca**

Descripció

Situada a la vorera de l'Av. Constitució al costat de la Biblioteca Aigüestoses.

Clau d'acer senyalitzat amb pintura.



BR-4

Data:

DES. 2020

Coordenades UTM

X = 413706.996

Y = 4589327.533

Z = 53.682

Anamorf: 0.999691629

Georeferenciació

Projecció
UTM FUS 31Sistema de Coordenades
ETRS89El·lipsoide
GRS 1980

Coordenades Geogràfiques WGS84

 $\phi = 41^{\circ}27'3.21681''$ N $\lambda = 1^{\circ}58'0.75706''$ E

h = 103.037

Situació

Prov: **Barcelona**
Comarca: **Baix Llobregat**
Població: **Sant Andre de la Barca**

Descripció

Situada a la rotonda entre el Carrer Garraf i el Carrer Penedès.

Clau d'acer senyalitzat amb pintura.



BR-5

Data:

DES. 2020

Coordenades UTM

X = 413781.202

Y = 4589363.499

Z = 49.889

Anamorf: 0.999691471

Georeferenciació

Projecció
UTM FUS 31Sistema de Coordenades
ETRS89El·lipsoide
GRS 1980

Coordenades Geogràfiques WGS84

 $\phi = 41^{\circ}27'4.4116'' \text{ N}$ $\lambda = 1^{\circ}58'3.93636'' \text{ E}$

h = 99.244

Situació

Prov: **Barcelona**
Comarca: **Baix Llobregat**
Població: **Sant Andre de la Barca**

Descripció

Situada a la vorera del Carrer de l'Anoia, a aproximadament 8m. de l'eix del Carrer Garraf.

Clau d'acer senyalitzat amb pintura.



BR-6

Data: DES. 2020

Coordenades UTM

X = 413804.778

Y = 4589359.297

Z = 47.27

Anamorf: 0.999691421

Georeferenciació

Projecció
UTM FUS 31Sistema de Coordenades
ETRS89El·lipsoide
GRS 1980

Coordenades Geogràfiques WGS84

 $\phi = 41^{\circ}27'4.28448''$ N $\lambda = 1^{\circ}58'4.9545''$ E

h = 96.625

Situació

Prov: **Barcelona**
Comarca: **Baix Llobregat**
Població: **Sant Andre de la Barca**

Descripció

Situada al peu del balast de la Línia Llobregat Anoia dels Ferrocarrils de la Generalitat de Catalunya.

Clau d'acer senyalitzat amb pintura.



BR-7

Data:

DES. 2020

Coordenades UTM

X = 413873.619

Y = 4589391.056

Z = 46.903

Anamorf: 0.999691275

Georeferenciació

Projecció
UTM FUS 31Sistema de Coordenades
ETRS89El·lipsoide
GRS 1980

Coordenades Geogràfiques WGS84

 $\phi = 41^{\circ}27'5.34077''$ N $\lambda = 1^{\circ}58'7.9048''$ E

h = 96.257

Situació

Prov: **Barcelona**
Comarca: **Baix Llobregat**
Població: **Sant Andre de la Barca**

Descripció

Situada a la vorera del Carrer Camp Llarg a l'entrada al descampat.

Clau d'acer senyalitzat amb pintura.



BR-14

Data:

DES. 2020

Coordenades UTM

X = 413828.82

Y = 4589309.829

Z = 49.117

Anamorf: 0.99969137

Georeferenciació

Projecció
UTM FUS 31Sistema de Coordenades
ETRS89El·lipsoide
GRS 1980

Coordenades Geogràfiques WGS84

 $\phi = 41^{\circ}27'2.68993''$ N $\lambda = 1^{\circ}58'6.01597''$ E

h = 98.472

Situació

Prov: **Barcelona**
Comarca: **Baix Llobregat**
Població: **Sant Andre de la Barca**

Descripció

Situada al Carrer de l'Anoia, a l'alçada de la Plaça Baix Llobregat.

Clau d'acer senyalitzat amb pintura.

FOTO 01



FOTO 02



FOTO 03



FOTO 04



FOTO 05



FOTO 06



FOTO 07



FOTO 08



FOTO 09



FOTO 10



FOTO 11



FOTO 12



FOTO 13



FOTO 14



FOTO 15



FOTO 16



FOTO 17



FOTO 18



FOTO 19



FOTO 20



FOTO 21



FOTO 22



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FOTO 104



FOTO 105



FOTO 106



FOTO 107



FOTO 108



FOTO 109



FOTO 110



FOTO 111



FOTO 112



FOTO 113



FOTO 114



FOTO 115



FOTO 116



FOTO 117



FOTO 118



FOTO 119



FOTO 120



FOTO 121



FOTO 122

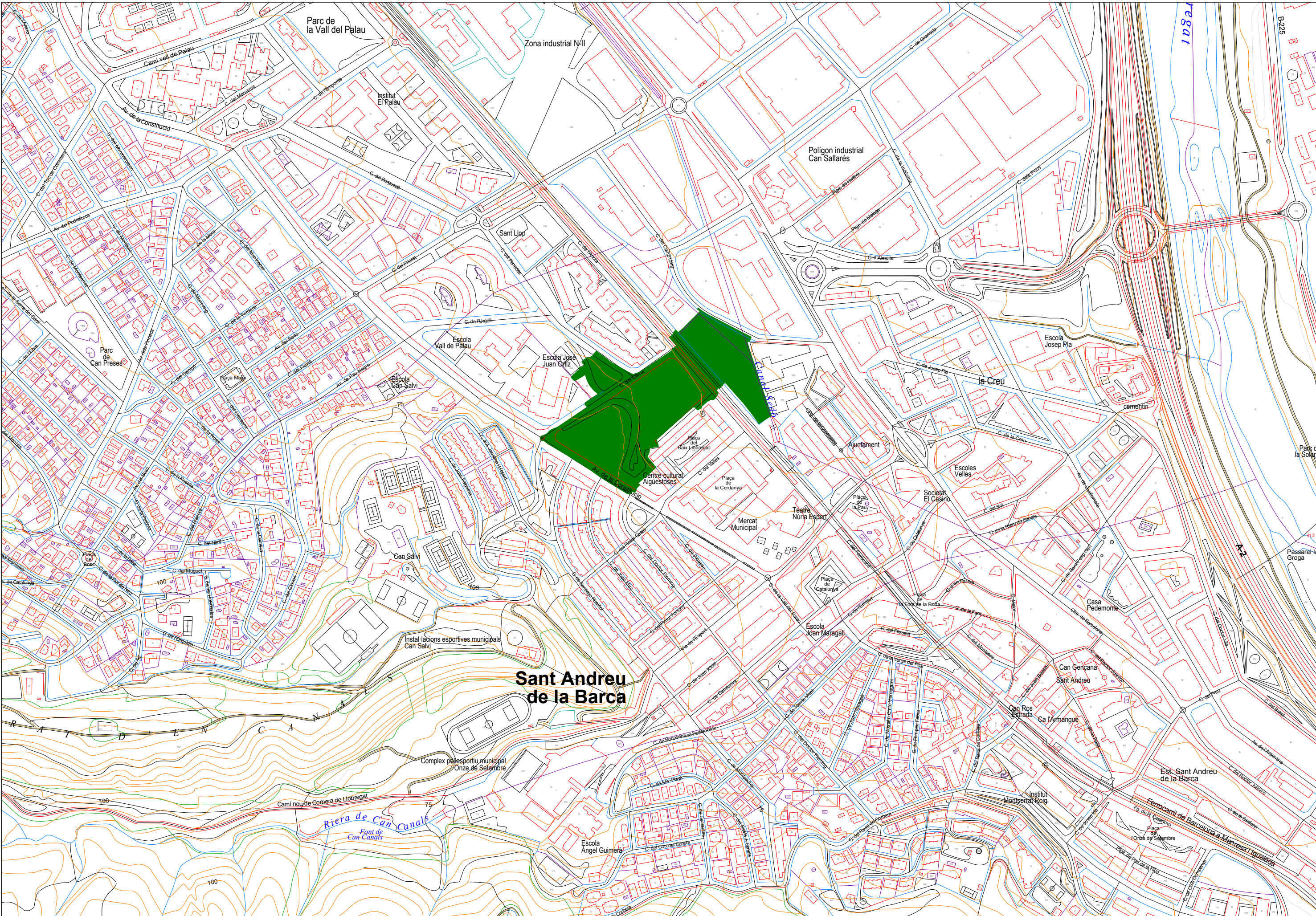


FOTO 123



FOTO 124





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+ Y=4589475

+ X=414100
+ Y=4589475

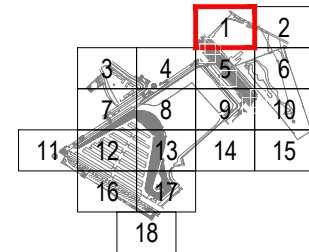


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+ Y=4589000

+ X=414100
+ Y=4589000



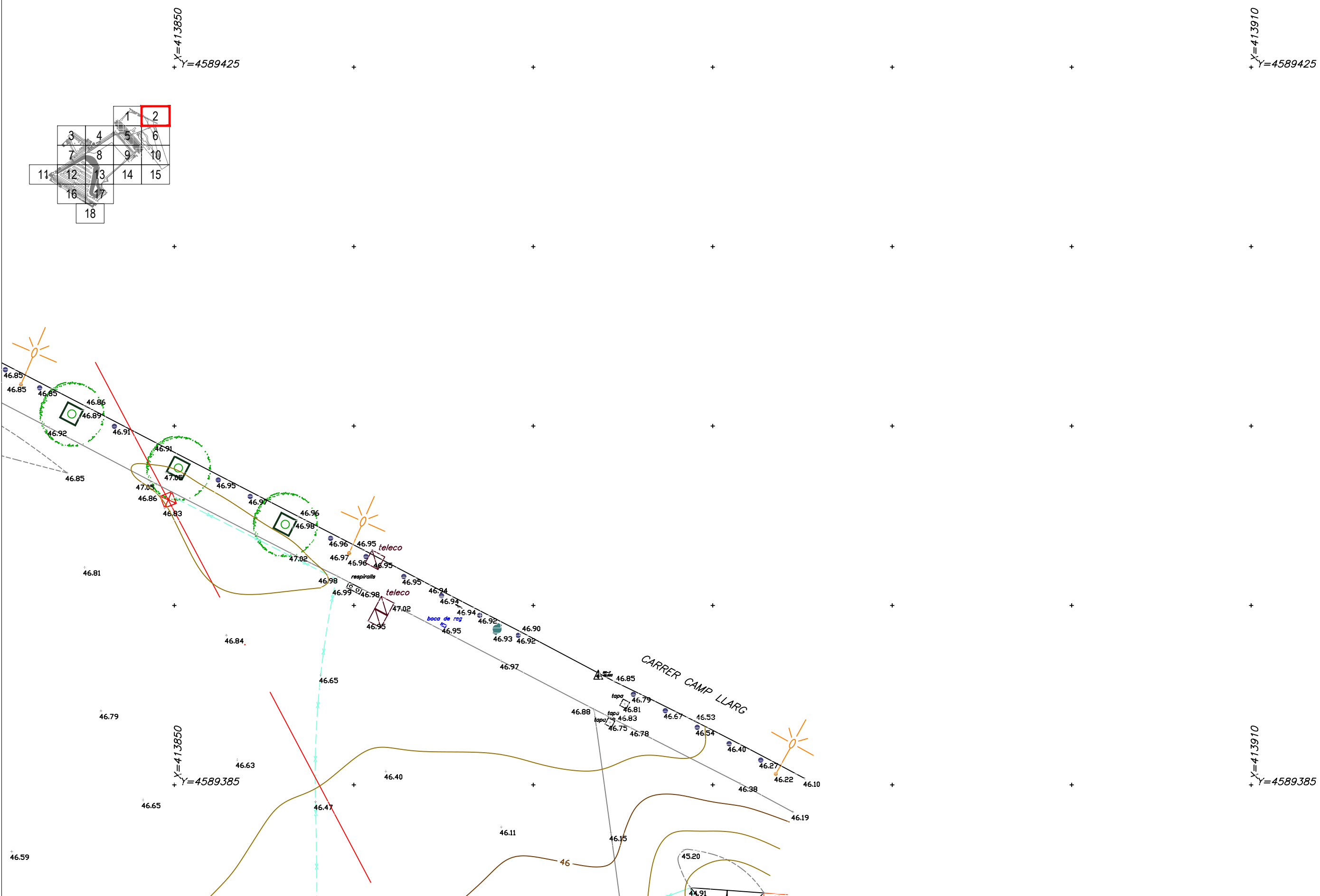
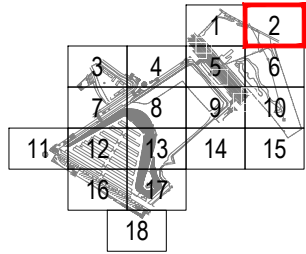
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+ Y=4589425



+ Y=413830
+ Y=4589425

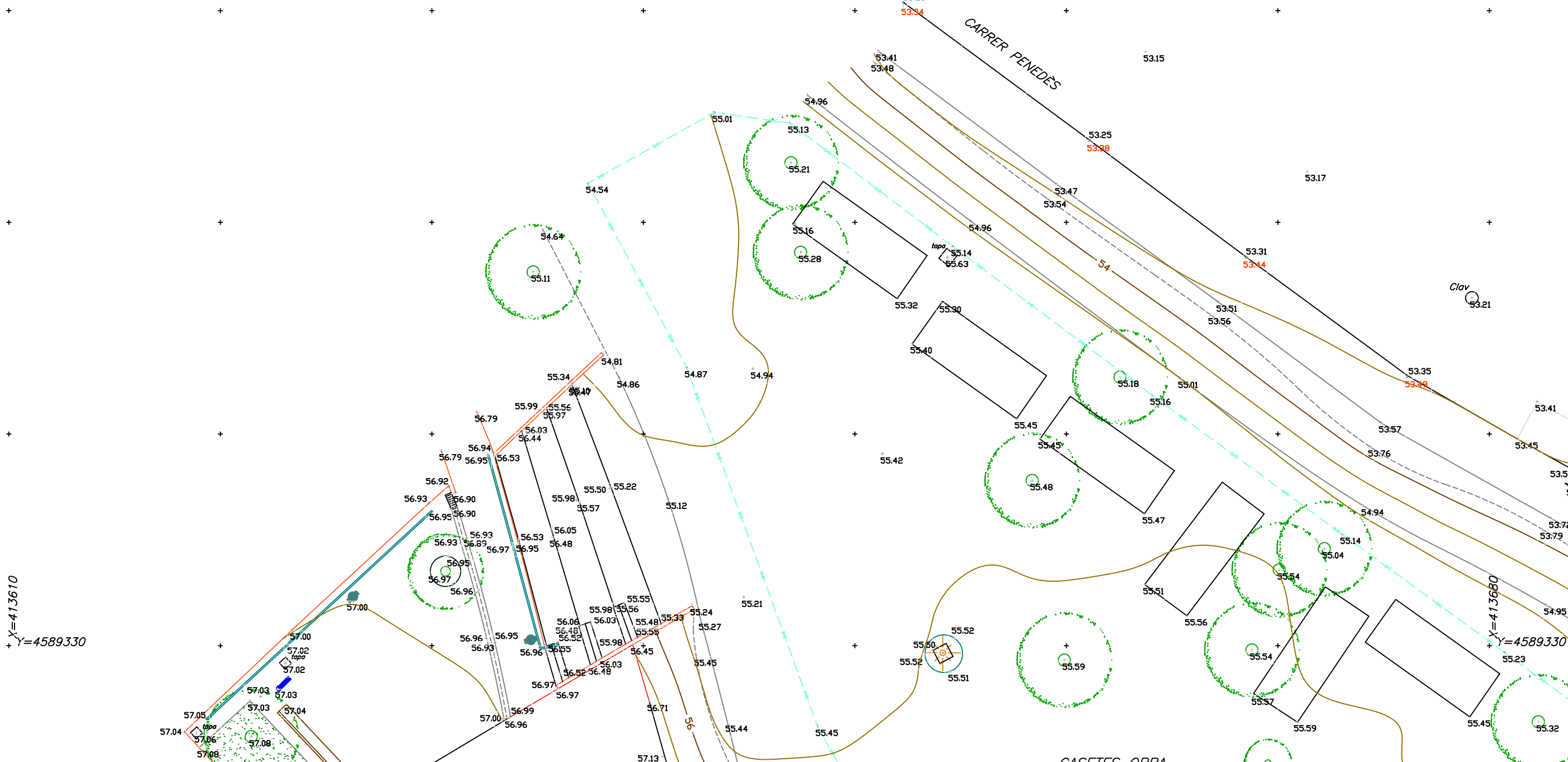
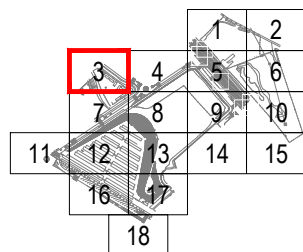
LÍNEA LLOBREGAT-ANOIA
DELS FCC

+ Y=413830
+ Y=4589385



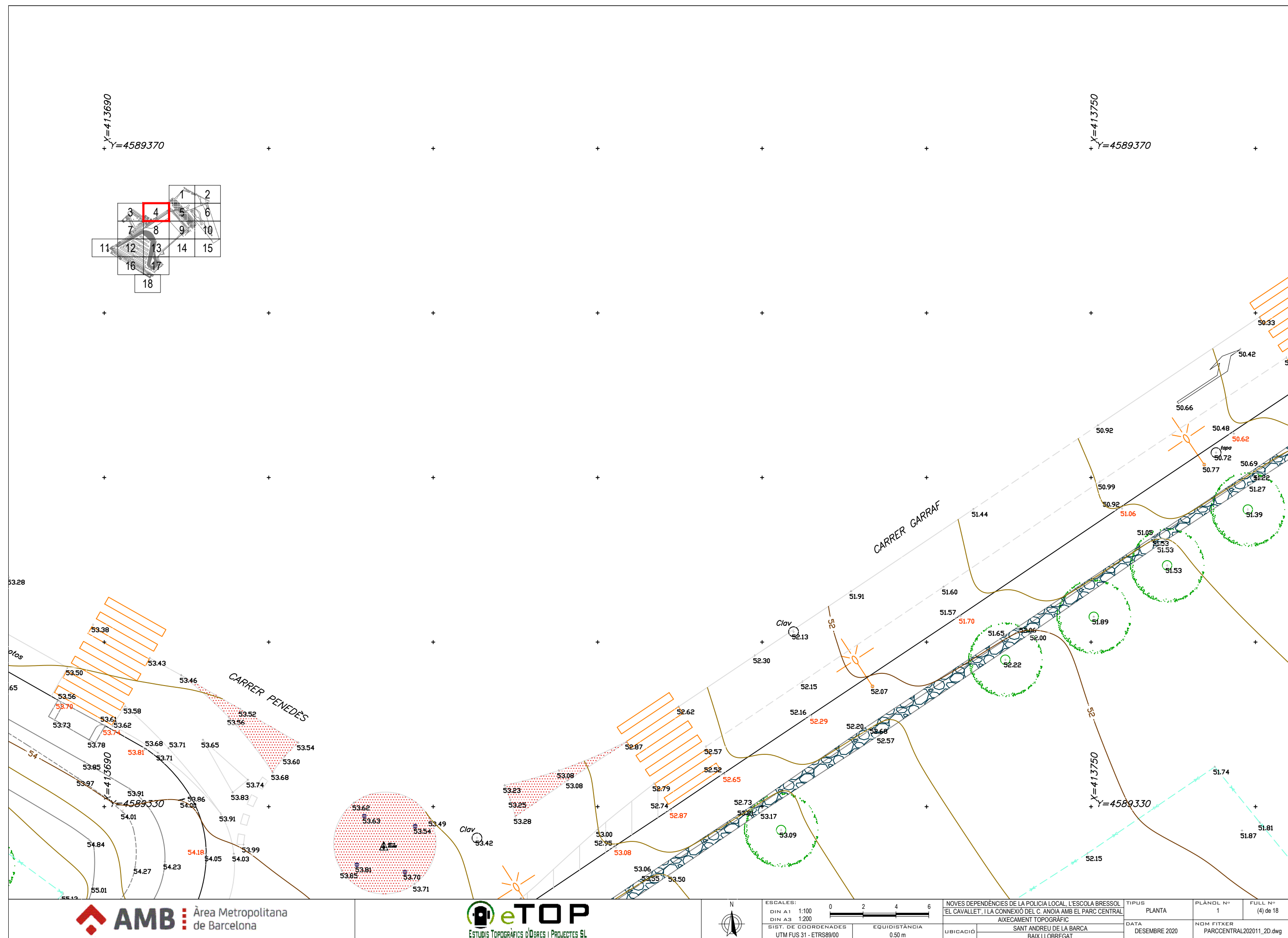
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Y=4589370

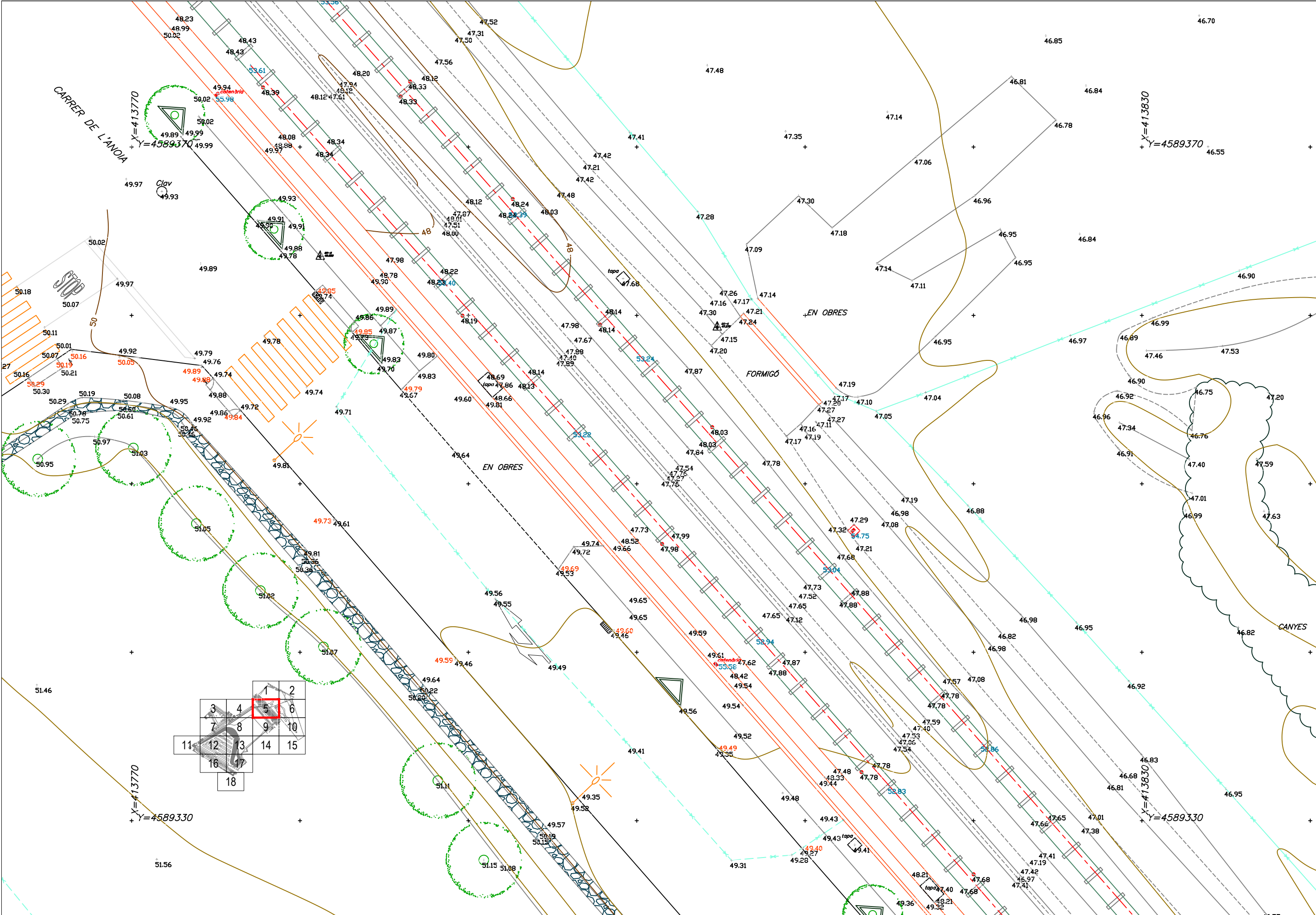
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Y=4589370

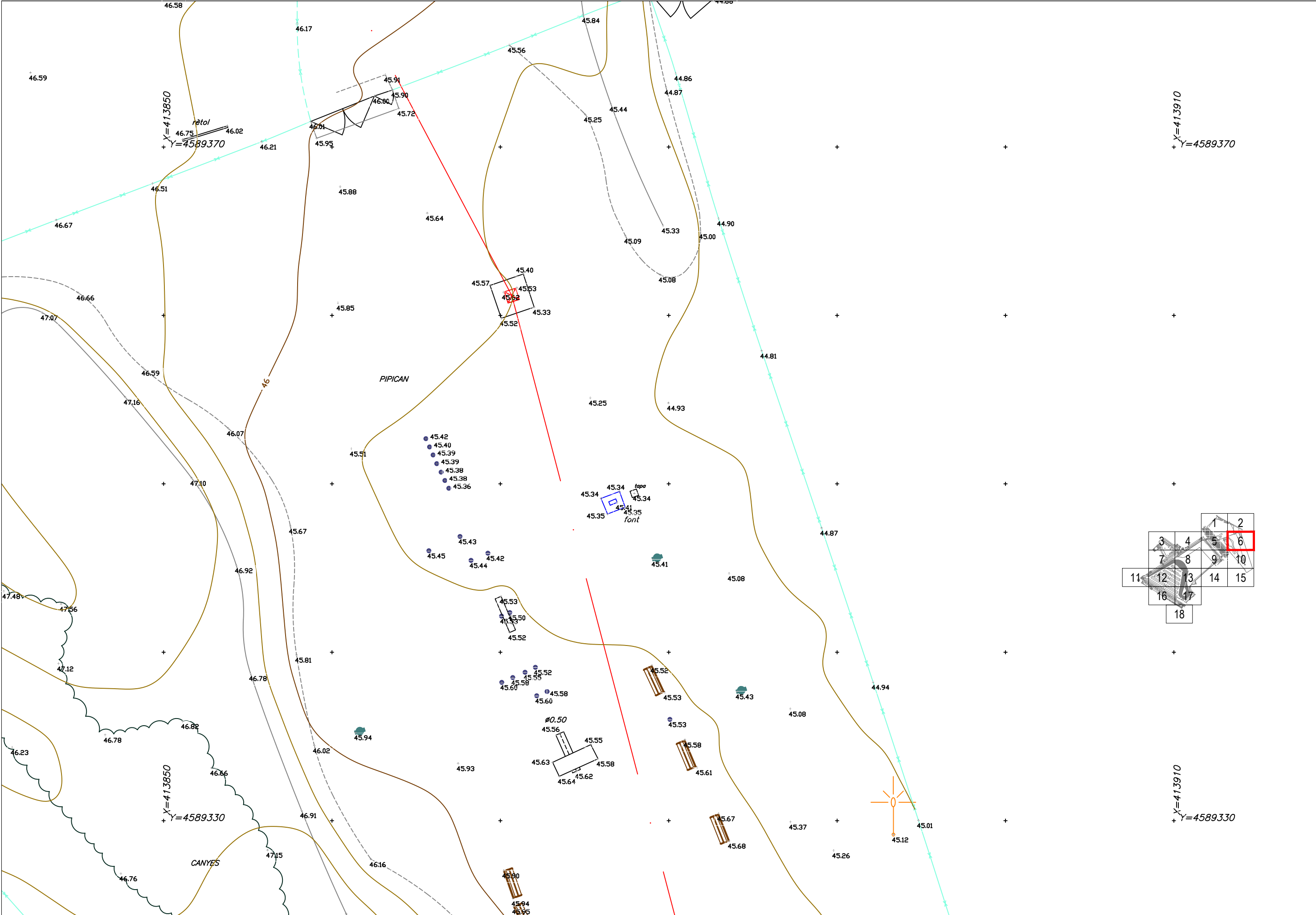


+ X=413610
Y=4589330

+ X=413680
Y=4589330





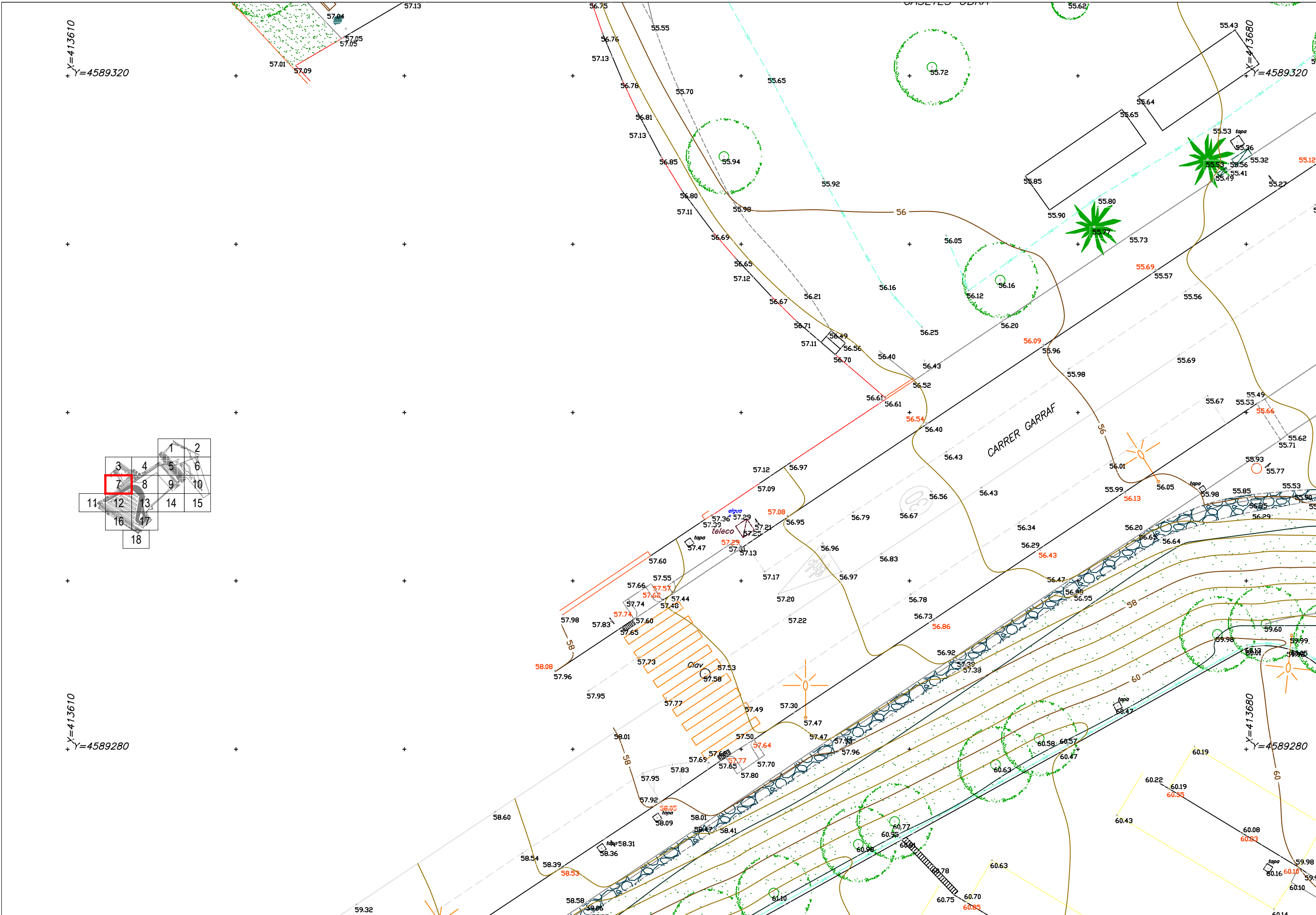


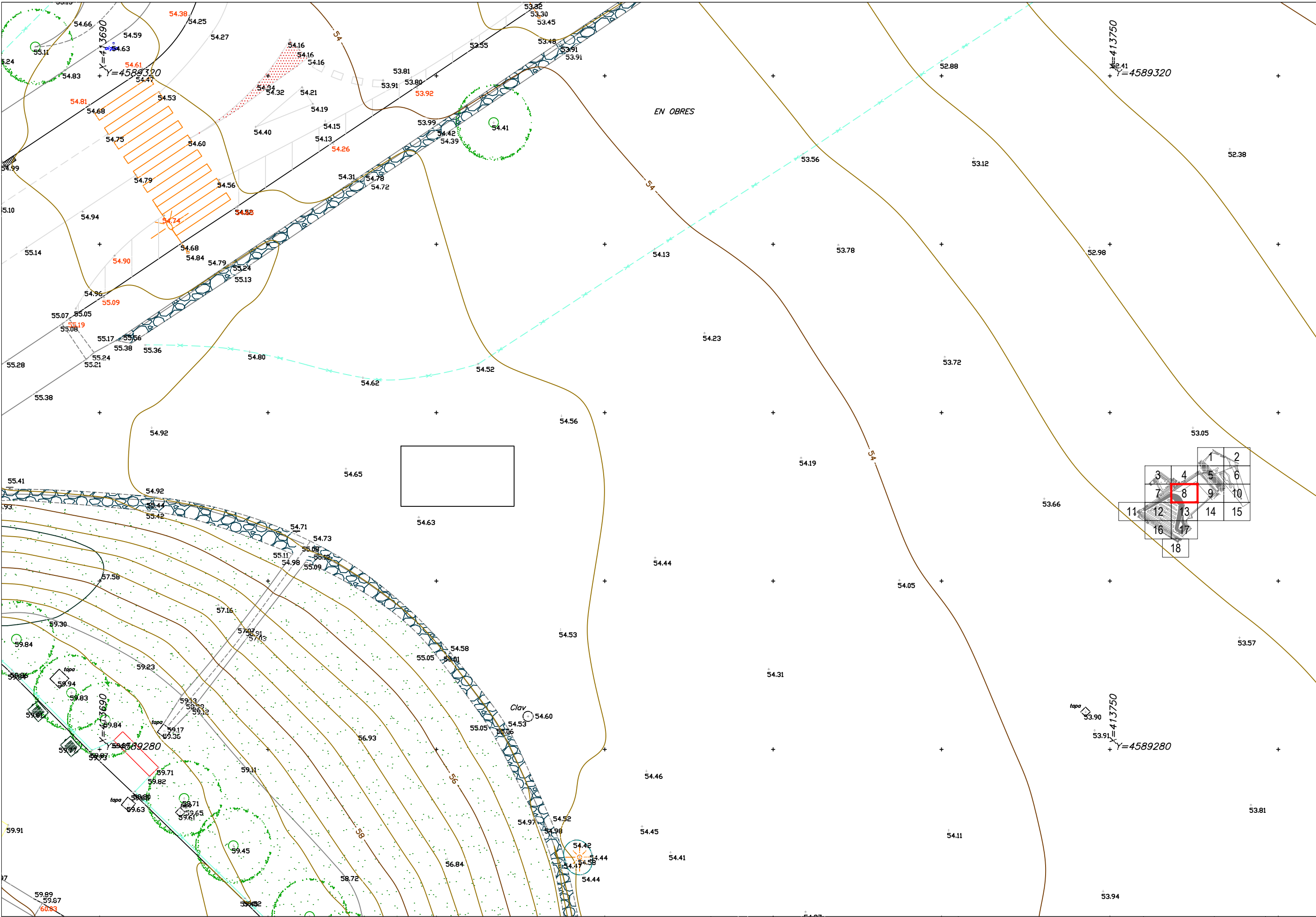
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+ Y=4589370

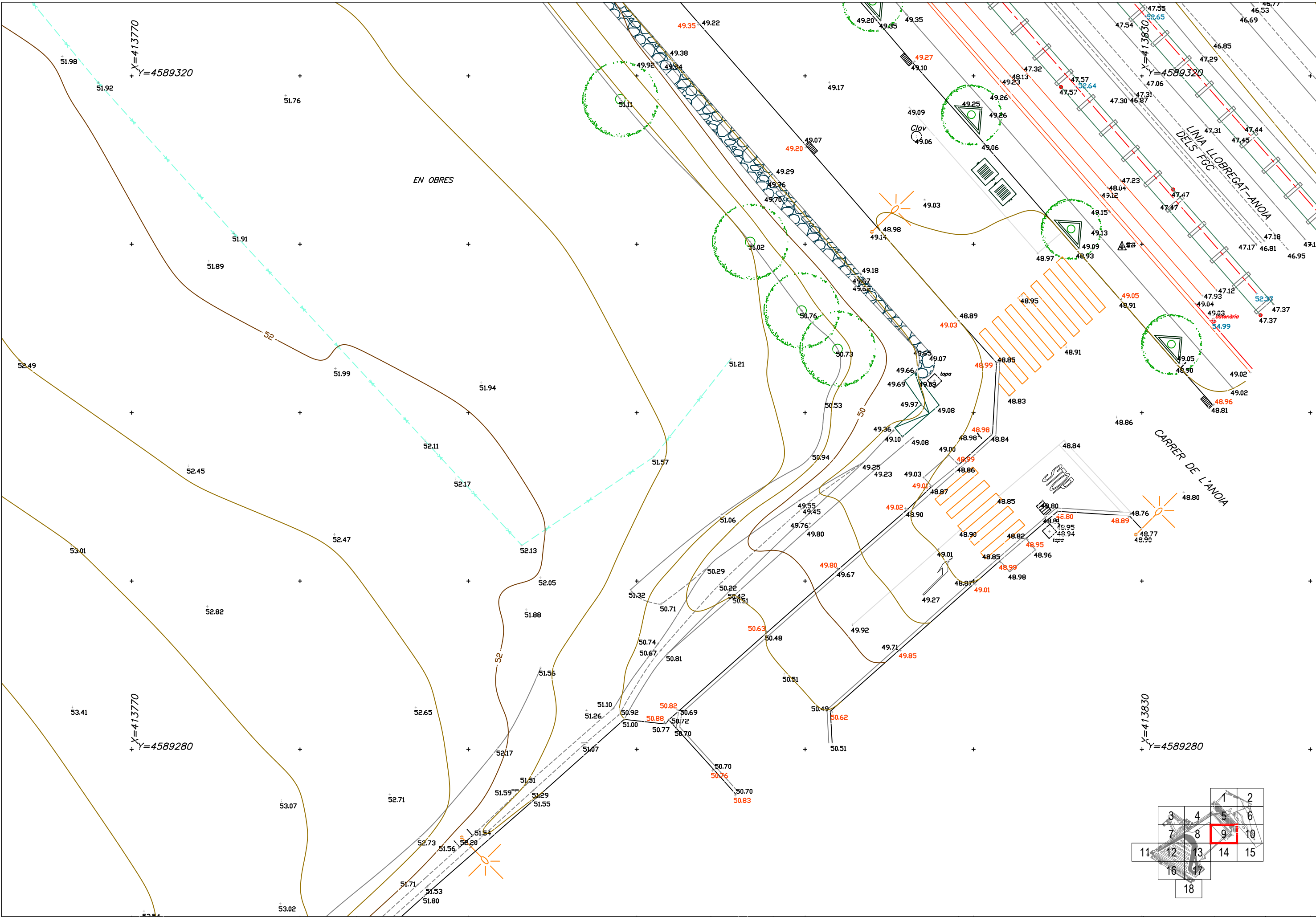
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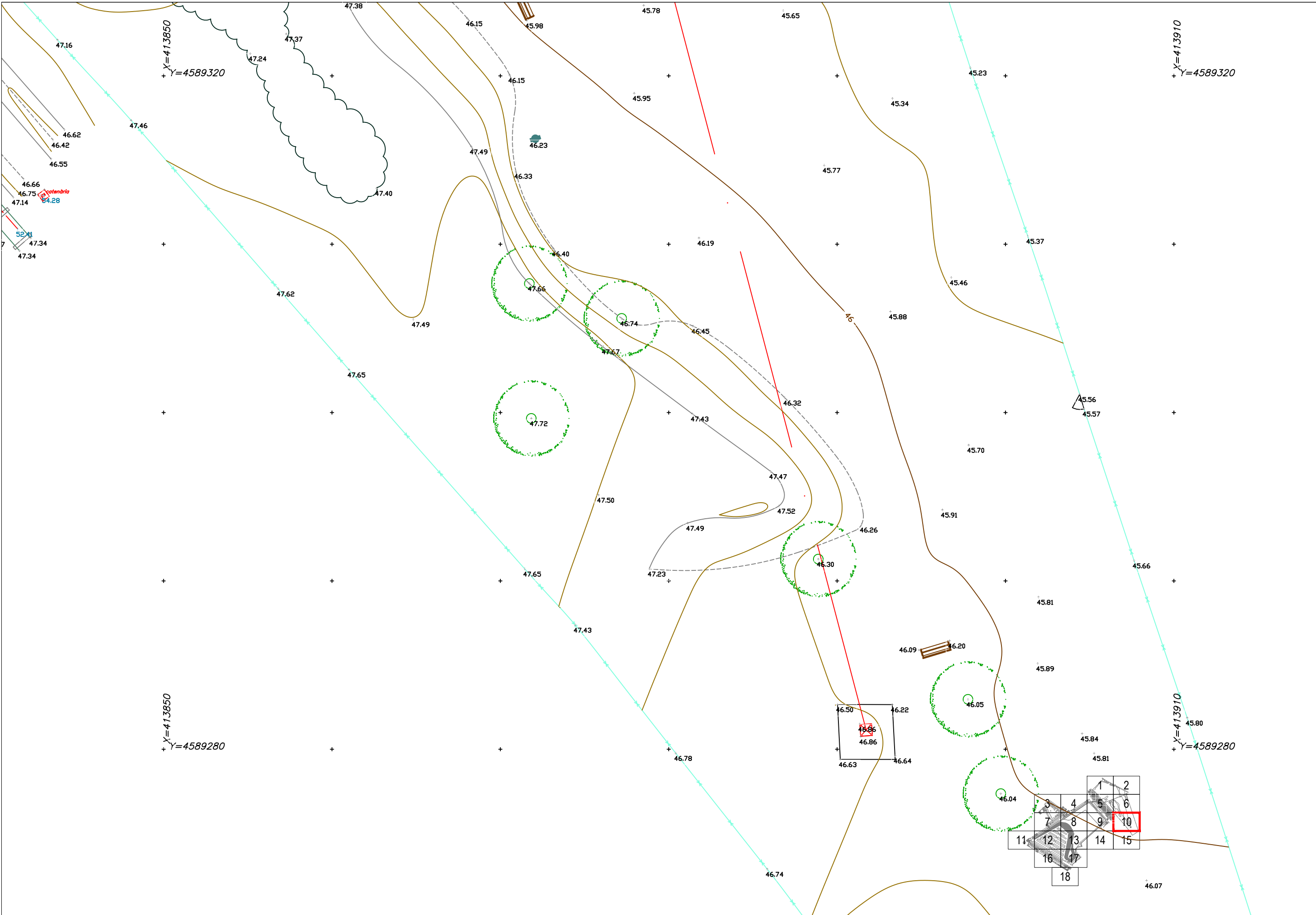
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+ Y=4589330



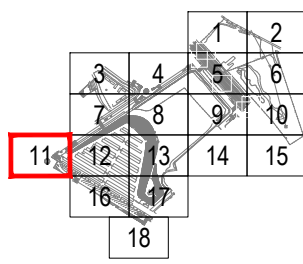






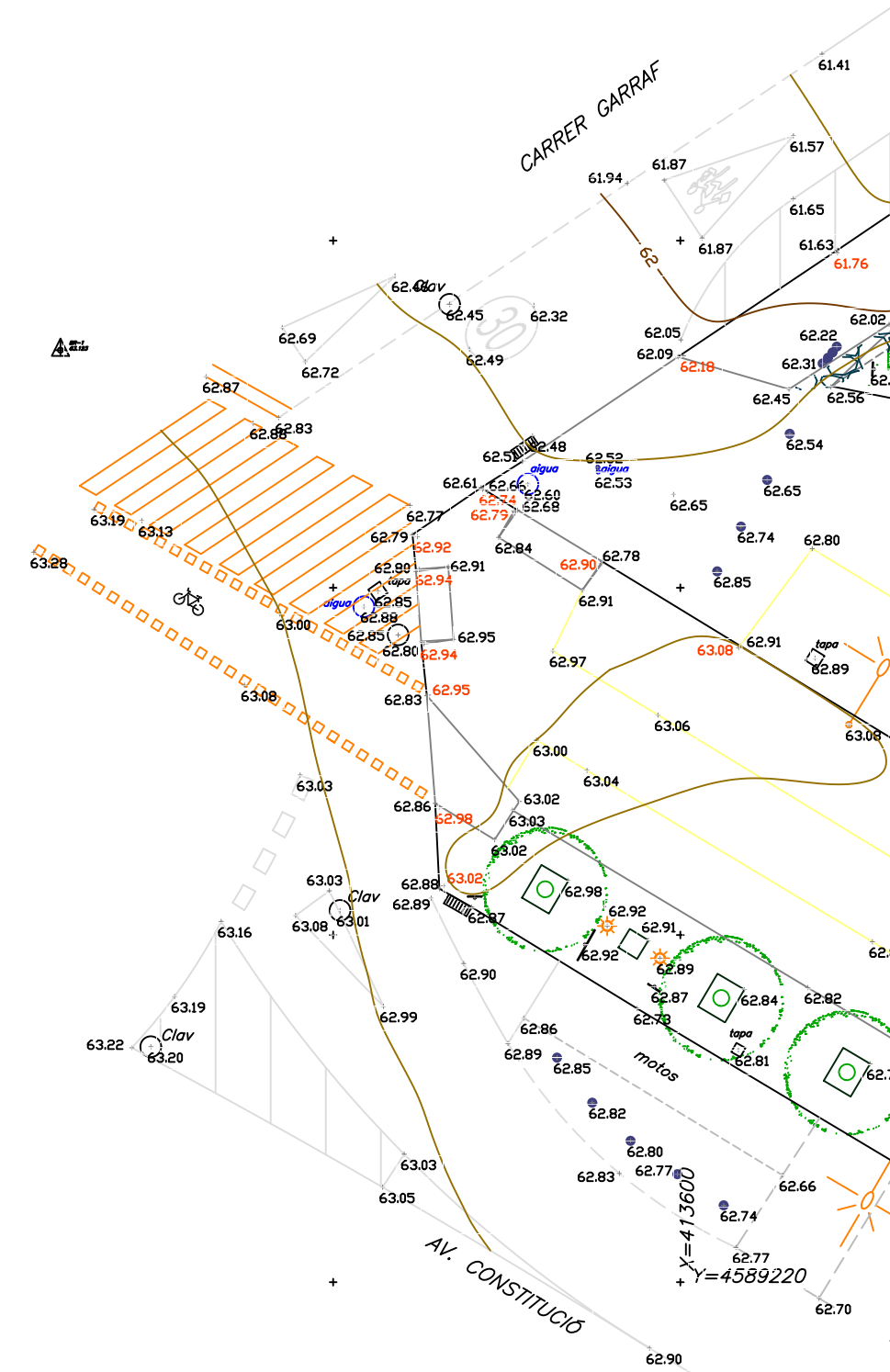
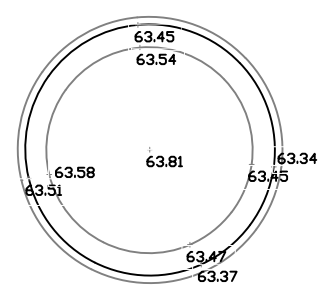
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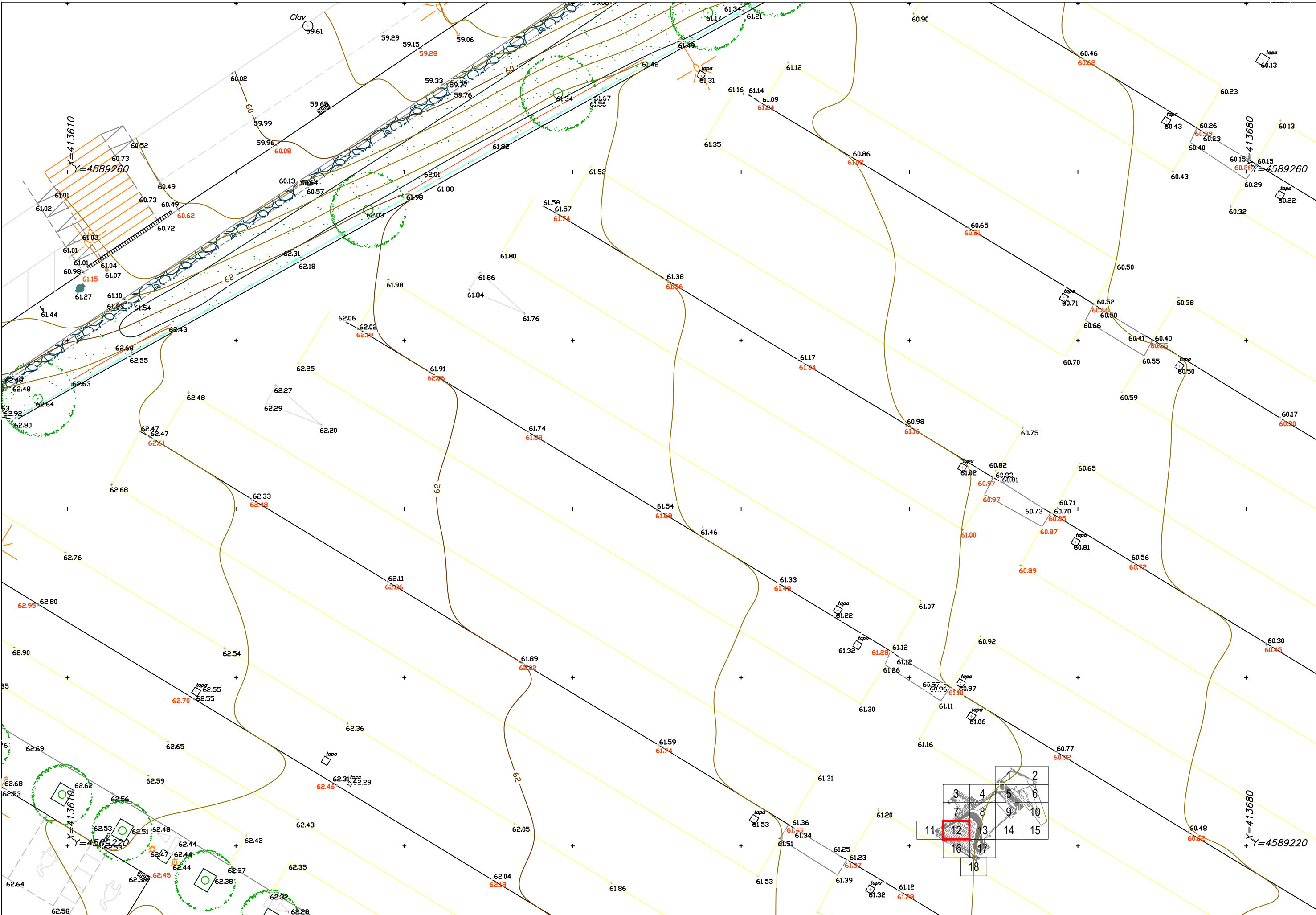
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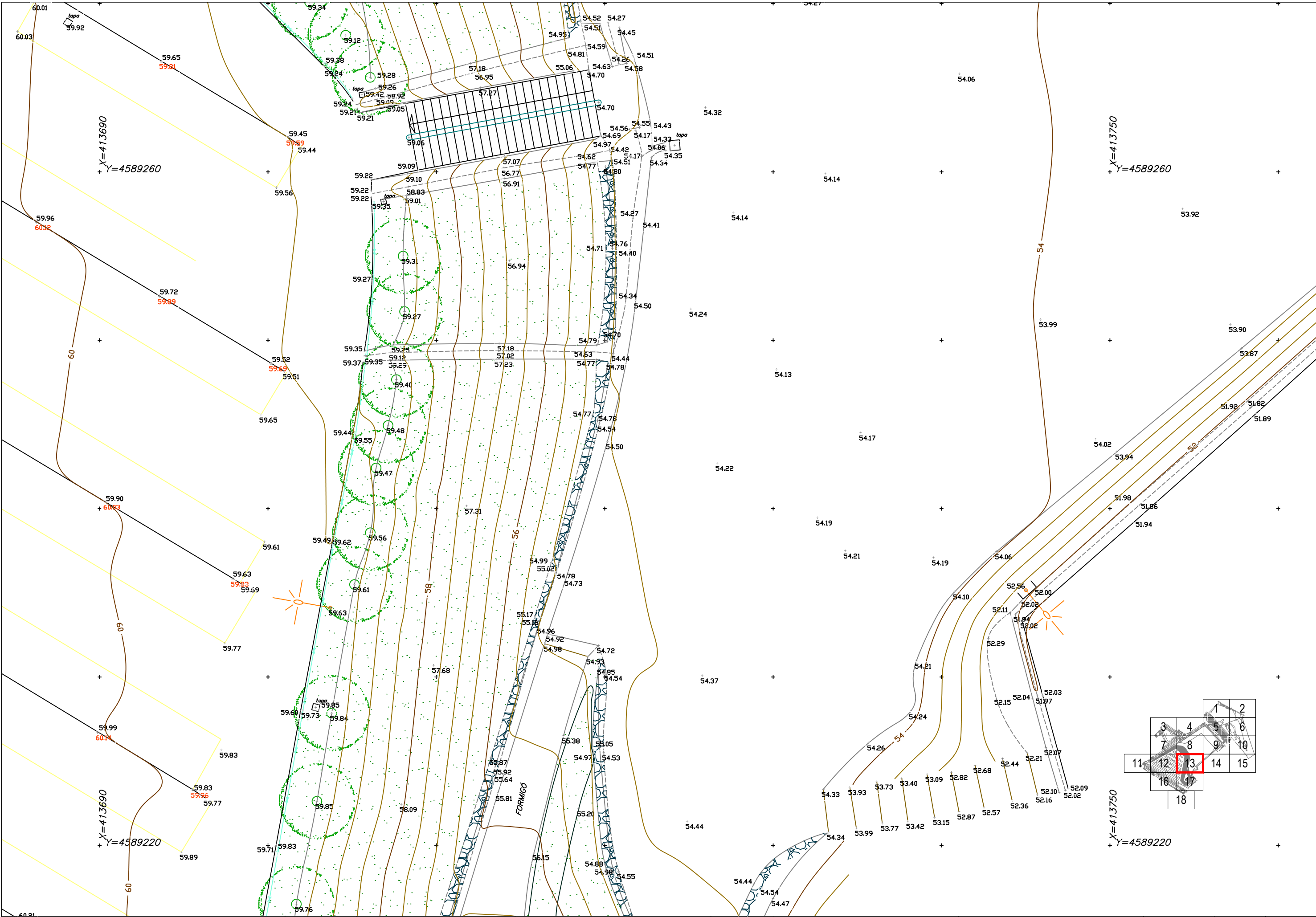


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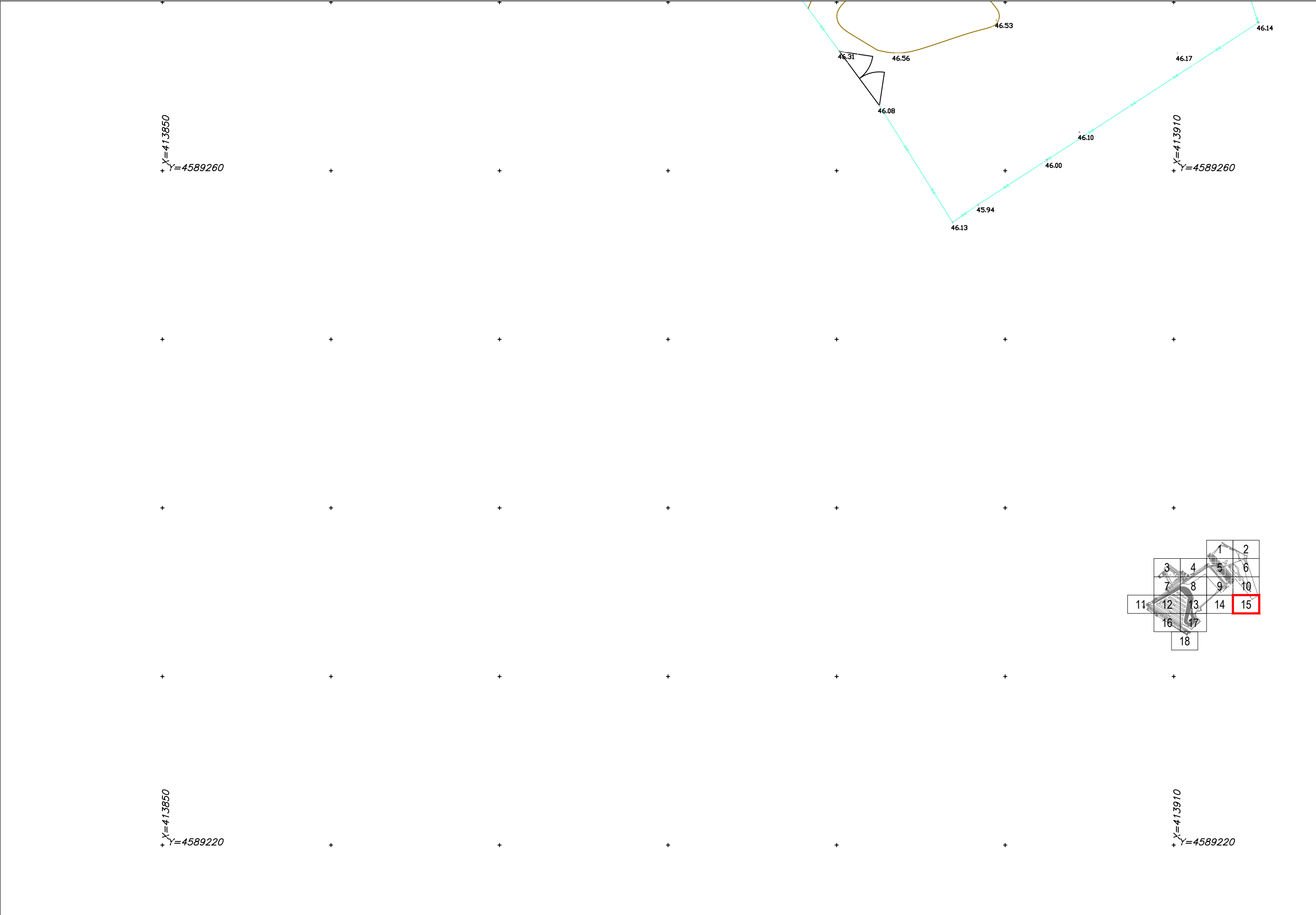
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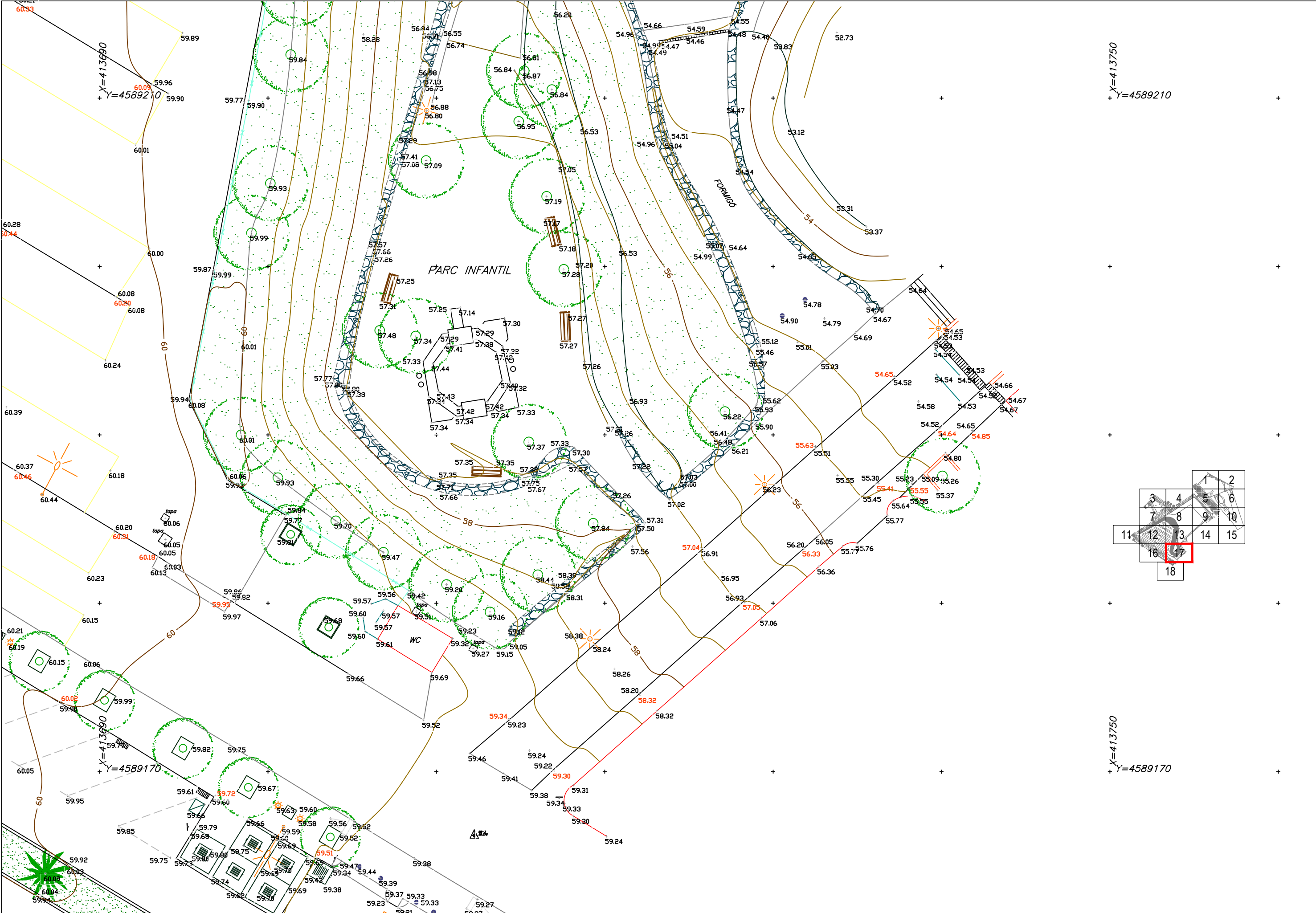


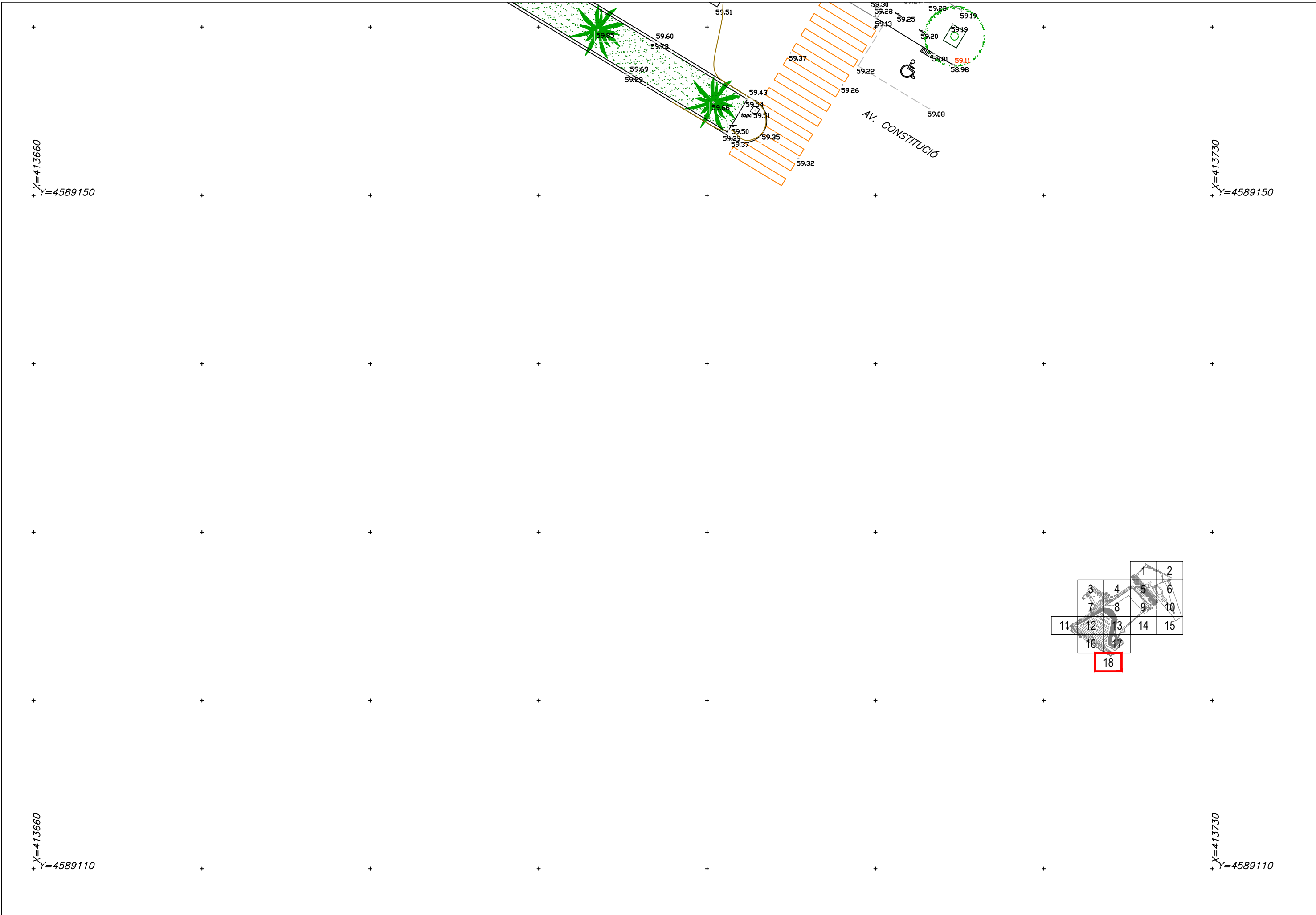


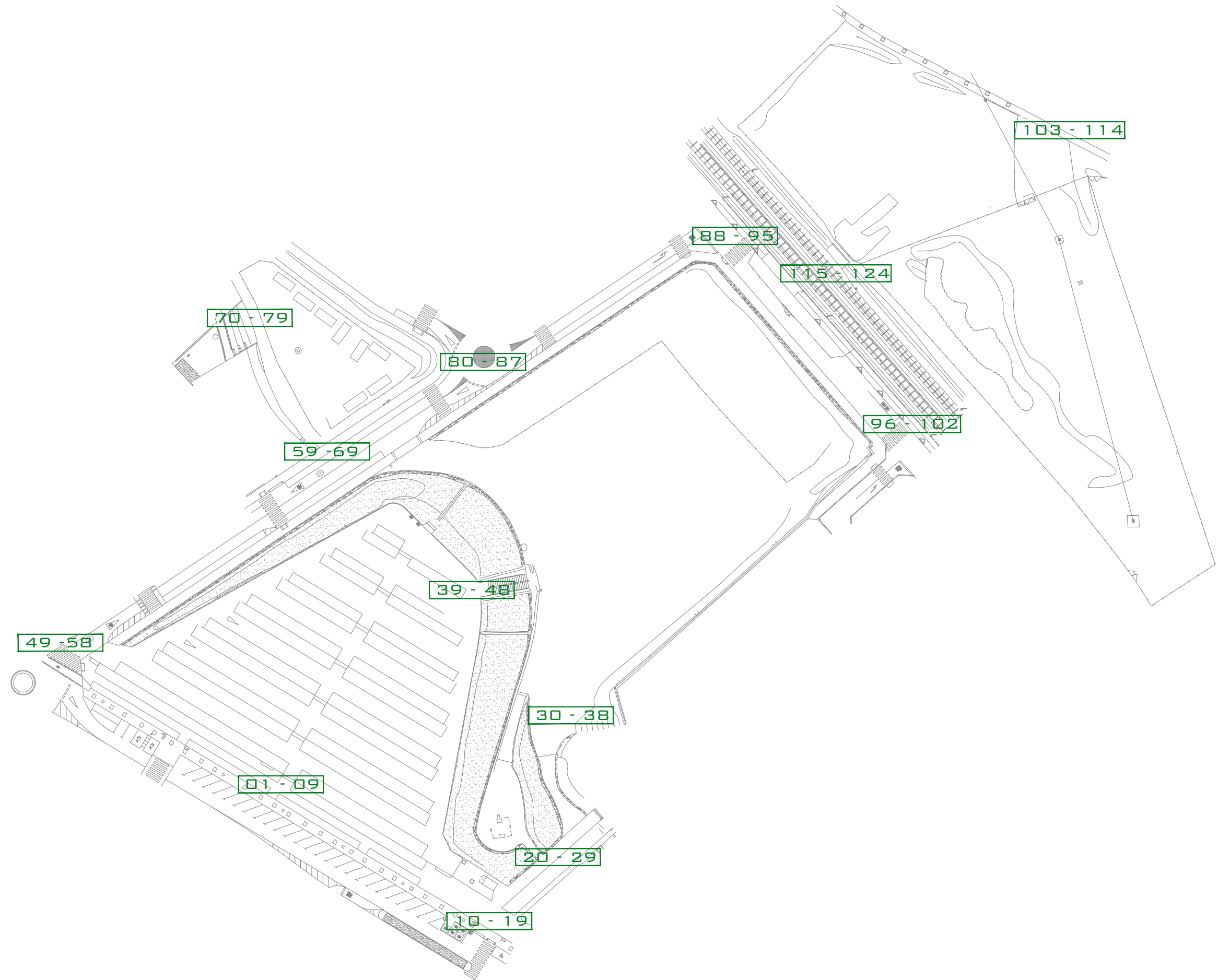












AN2 SERVEIS AFECTATS

SUMARI

1	SERVEIS EXISTENTS I AFECTATS
1.1	OBJECTE
1.2	SERVEIS EXISTENTS
1.2.1	XARXA ELÈCTRICA
1.2.2	XARXA D'AIGUA POTABLE
1.2.3	XARXA DE SANEJAMENT
1.2.4	XARXA GAS NATURAL
1.2.5	XARXA ENLLUMENAT PÚBLIC
1.2.6	XARXA DE COMUNICACIONS

1 SERVEIS EXISTENTS I AFECTATS

1.1 OBJECTE

L'objecte del present annex comprèn la descripció dels treballs a realitzar així com les característiques tècniques i els càlculs de les instal·lacions de serveis existents, els serveis afectats, la previsió de canalitzacions per a instal·lacions futures i els nous subministraments de la Llar d'Infants ubicada dins el terme municipal de Sant Andreu de la Barca.

1.2 SERVEIS EXISTENTS

Els treballs que s'han dut a terme per a la identificació dels serveis existents a la zona del Projecte, han estat els següents:

- Recopilació d'informació i/o entrevistes amb companyies i entitats municipals per a la localització, la identificació i la caracterització dels serveis existents que poden quedar afectats.

Amb les dades obtingudes s'han elaborat els plànols del present document, situant els serveis existents, identificant la tipologia i a quina companyia pertanyen.

Abans del començament de les obres, el contractista, d'acord amb el Plec de Condicions, està obligat a la localització dels serveis existents en la zona, i a la realització de cates si és necessari, atès que la informació facilitada per les companyies té un caràcter aproximat.

1.2.1 XARXA ELÈCTRICA

e-distribución

Ref: 551103

Señores,

En relación a su solicitud con fecha 27/01/2021, Ref: 551103, les adjuntamos el grafiado de los planos solicitados correspondientes a las instalaciones subterráneas de EDISTRIBUCIÓN Redes Digitales S.L.U.

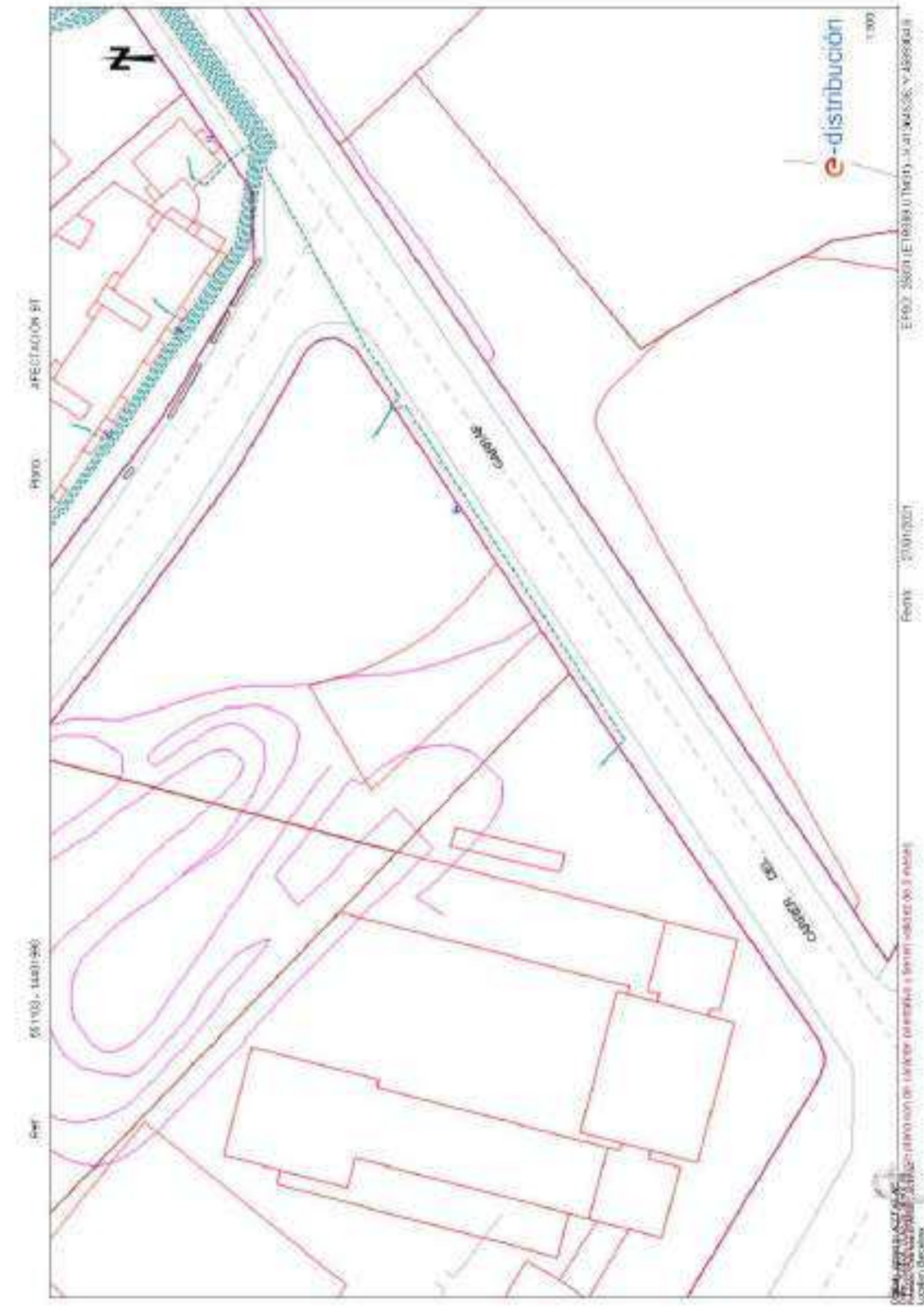
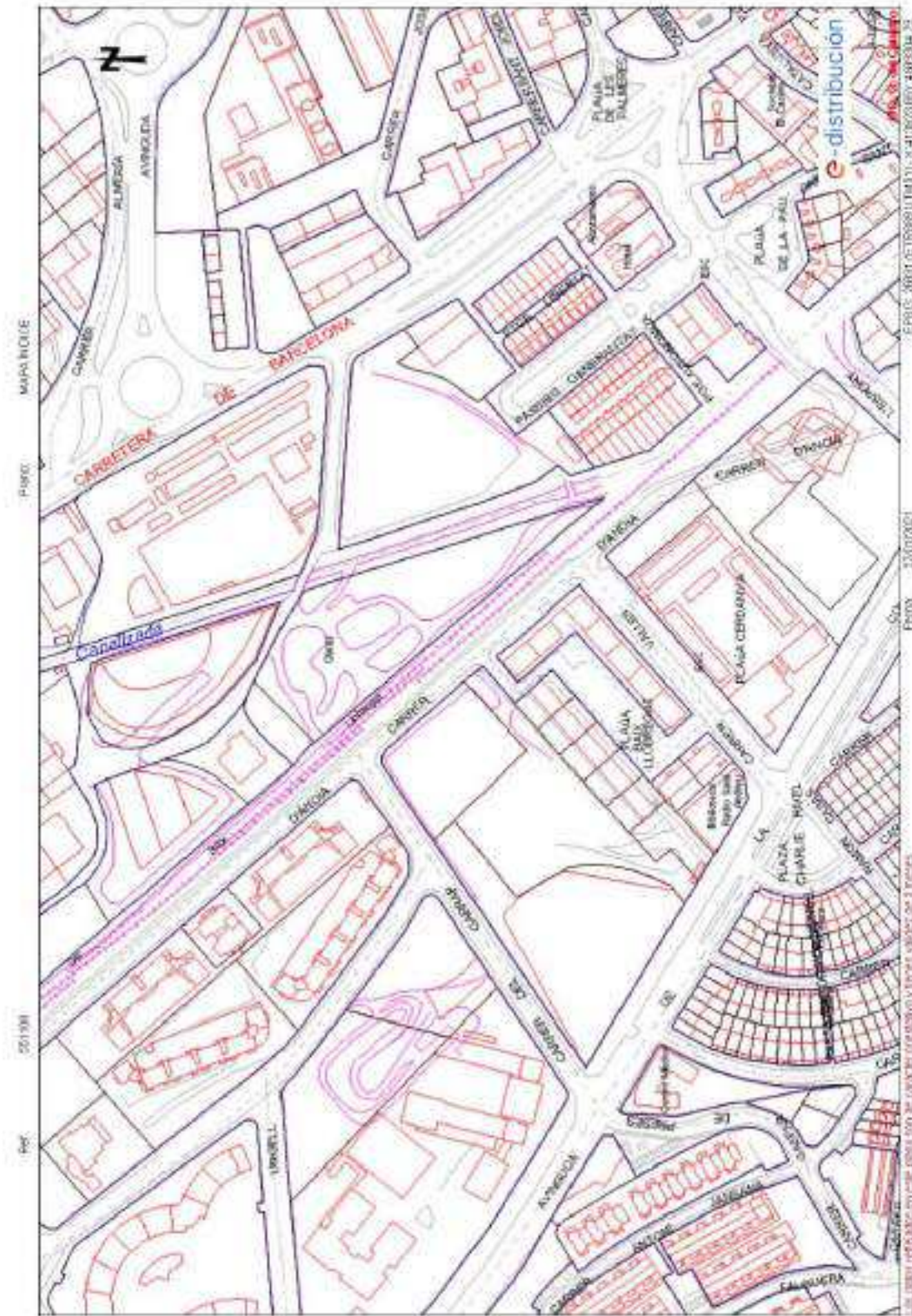
Por otro lado, les indicamos que los datos facilitados son a título orientativo, ya que pueden haber resultado afectados por la topografía del terreno y/o otros trabajos, y tienen validez para el proyecto.

Les recordamos que de acuerdo con la Orden TIC 341 de 22 de julio a la hora de la ejecución de este proyecto, deberán volver a solicitar servicios y, dependiendo de la zona de afectación, realizar el reconocimiento y firma de la Acta de Control.

Quedamos a su disposición para cualquier duda y aprovechamos la ocasión para saludarles.

Anexos:

Planos numerados 551103 - 14402133 - BT, 551103 - 14402172 - BT, 551103 - 14402152 - BT, 551103 - 14402164 - BT, 551103 - 14402109 - BT, 551103 - 14401989 - AT-MT, 551103 - 14401990 - AT-MT, 551103 - 14401991 - AT-MT, 551103 - 14401992 - AT-MT, 551103 - 14401993 - AT-MT, 551103 - 14401994 - AT-MT, 551103 - 14401995 - AT-MT, 551103 - 14402141 - BT, 551103 - 14402104 - BT



e-distribución

RECOMENDACIONES BÁSICAS EN LA REALIZACIÓN DE OBRAS CON EXISTENCIA DE RED ELÉCTRICA

RECOMENDACIONES DE SEGURIDAD

1. Como cumplimiento del artículo 24 apartado 2 de la Ley 31 de 1995 de Prevención de Riesgos Laborales, les informamos de los riesgos inherentes a la propia instalación eléctrica: riesgo de paso de corriente y riesgo de cortocircuito.

2. El personal que efectúe la apertura, en el momento de realización de catas para la localización de cables eléctricos, añada a su equipo de protección individual (EPI), elementos que aumenten la seguridad personal ante posibles contactos eléctricos, directos e indirectos, y cortocircuitos, tales como:

- a) Guantes aislantes que se puedan colocar debajo de los de protección mecánica.
- b) Botas aislantes
- c) Gafas de protección

3. Señalizar la zona de existencia de cables.

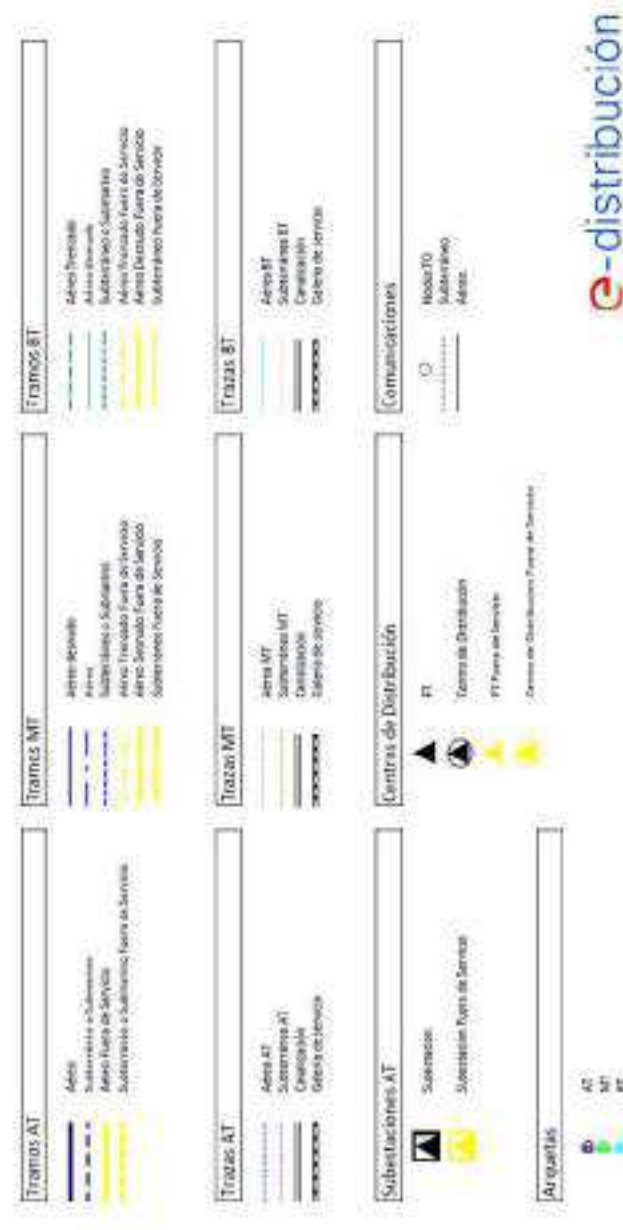
4. No descubrir los cables hasta que no sea necesario.

5. Mantener descubiertos los cables el menor tiempo posible.

6. Si se ha de trabajar en proximidad de cables descubiertos, taparlos con placas de neopreno y si están en el paso de personas disponer de elementos que eviten pisar los cables.

7. Sujetar los cables mediante placas de neopreno y cuerdas aislantes, si por motivos de ejecución de la obra hubiera cables descolgados, de forma que no queden forzados ni con ángulos cerrados, de forma que mantengan su posición inicial.

8. Realizar las operaciones 5 y 6 bajo supervisión de personal cualificado.





RECOMENDACIONES BÁSICAS EN LA REALIZACIÓN DE OBRAS CON EXISTENCIA DE RED ELÉCTRICA

RECOMENDACIONES PARA LA REALIZACIÓN DE CATAS

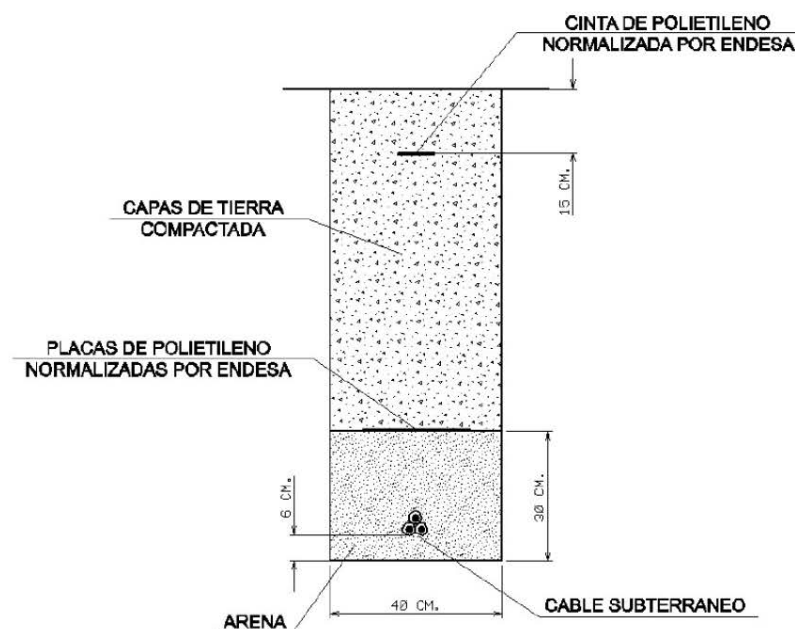
Realizar las catas manualmente, ayudándose de la paleta para hacer micro catas de 20 cm. de profundidad.

Se recomienda que la anchura de la cata sea de 60 cm. en el sentido de la canalización y de 50 cm. como mínimo en sentido transversal a cada lado de:

- La futura traza de la canalización.
- La cota del eje de la canalización.

RESTITUCIÓN DE LAS PROTECCIONES DE LOS CABLES

Las líneas eléctricas deben quedar protegidas de posibles agresiones externas, y por ello se han de señalizar y proteger. Una vez se haya descubierto un cable o cables eléctricos se debe restituir las protecciones tal como indica la figura siguiente y atendiendo a los procedimientos de EDISTRIBUCIÓN Redes Digitales S.L.U. DMH001 (MT) y CML003 (BT).



RECOMENDACIONES BÁSICAS EN LA REALIZACIÓN DE OBRAS CON EXISTENCIA DE RED ELÉCTRICA

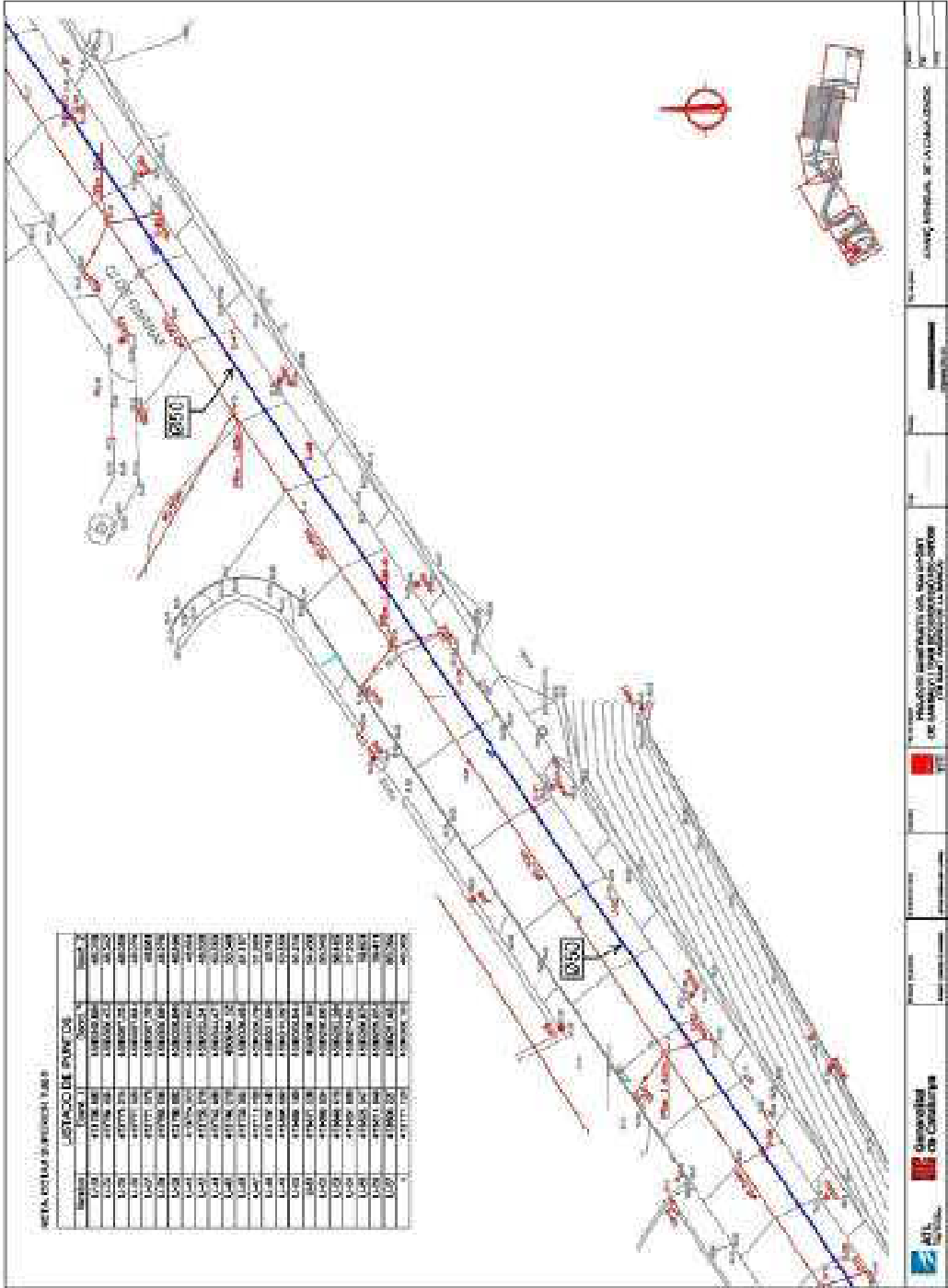
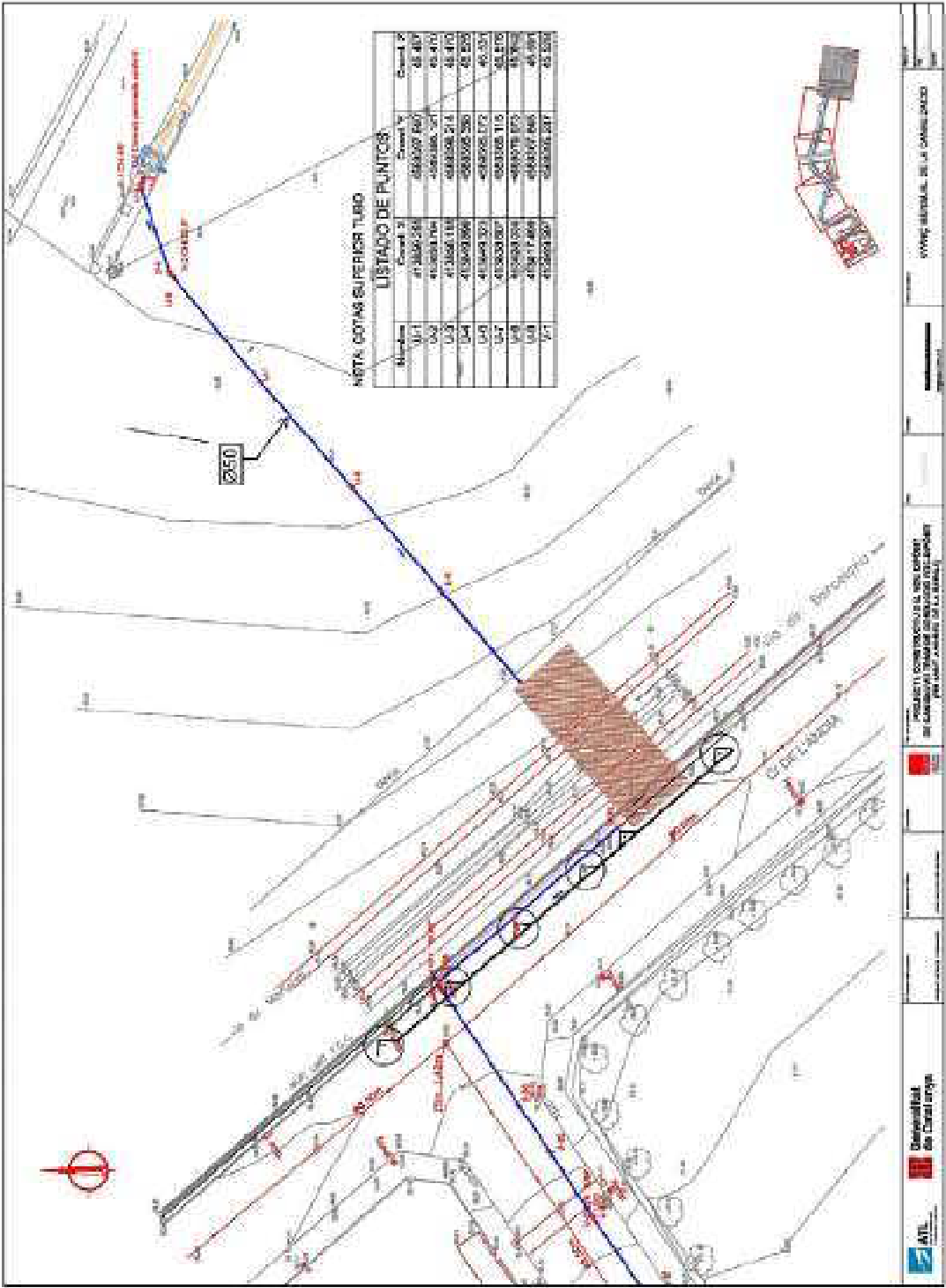
En caso de dudas o configuraciones complejas, consultar con la Zona de Distribución correspondiente de EDISTRIBUCIÓN Redes Digitales S.L.U.

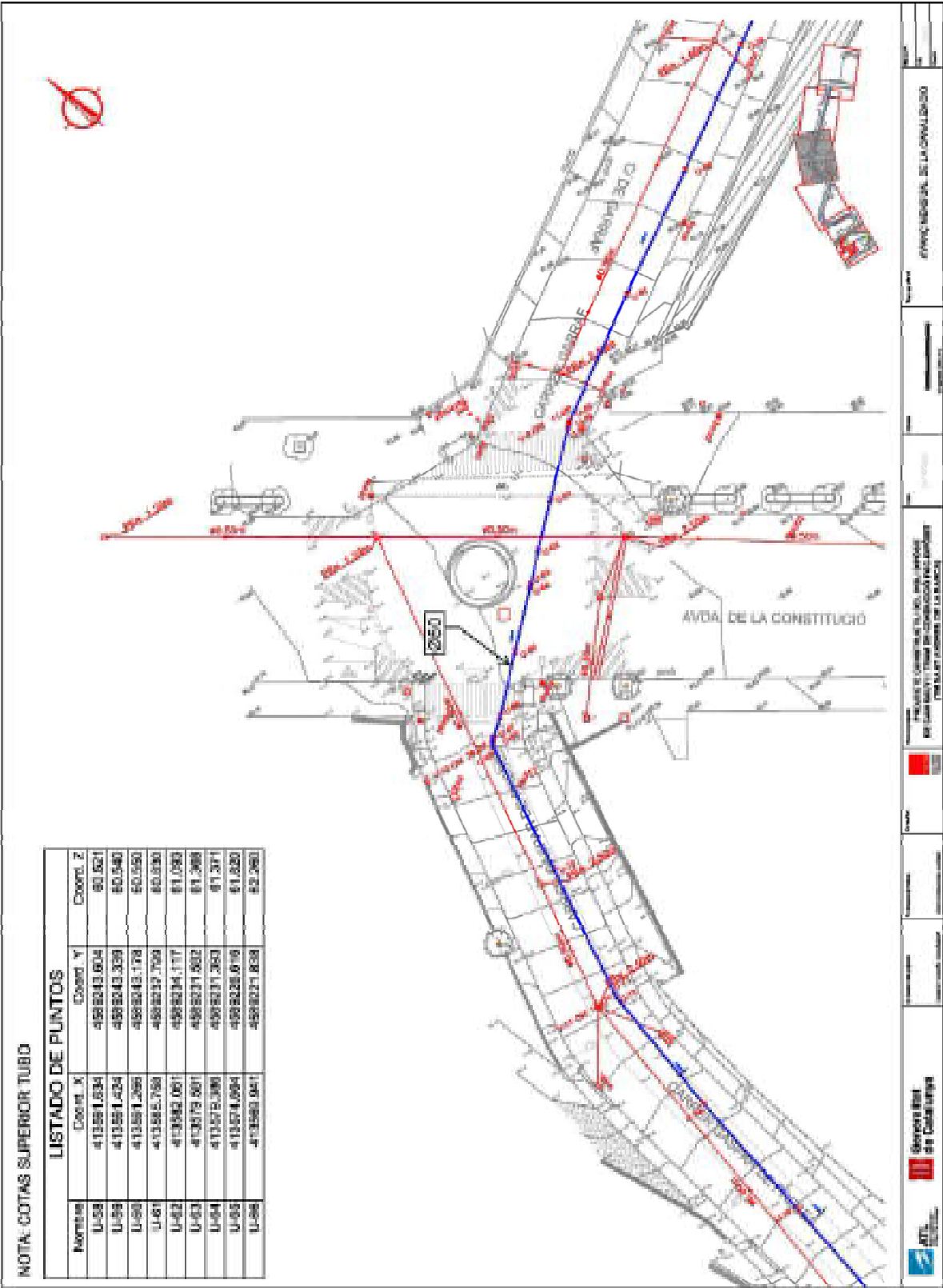
Todas estas indicaciones quedan supeditadas a las instrucciones puntuales del personal técnico de EDISTRIBUCIÓN Redes Digitales S.L.U.

SEPARACIÓN DE SERVICIOS

Se debe seguir lo ordenado en el Decreto 120/1992 de 28 de Abril, modificado parcialmente por el Decreto 186/1992, así como lo indicado en la Orden del 5 de julio de 1993 (DOG 1782 11-8-93).

1.2.2 XARXA D'AIGUA POTABLE





1.2.3 XARXA DE SANEJAMENT



Señores/es,

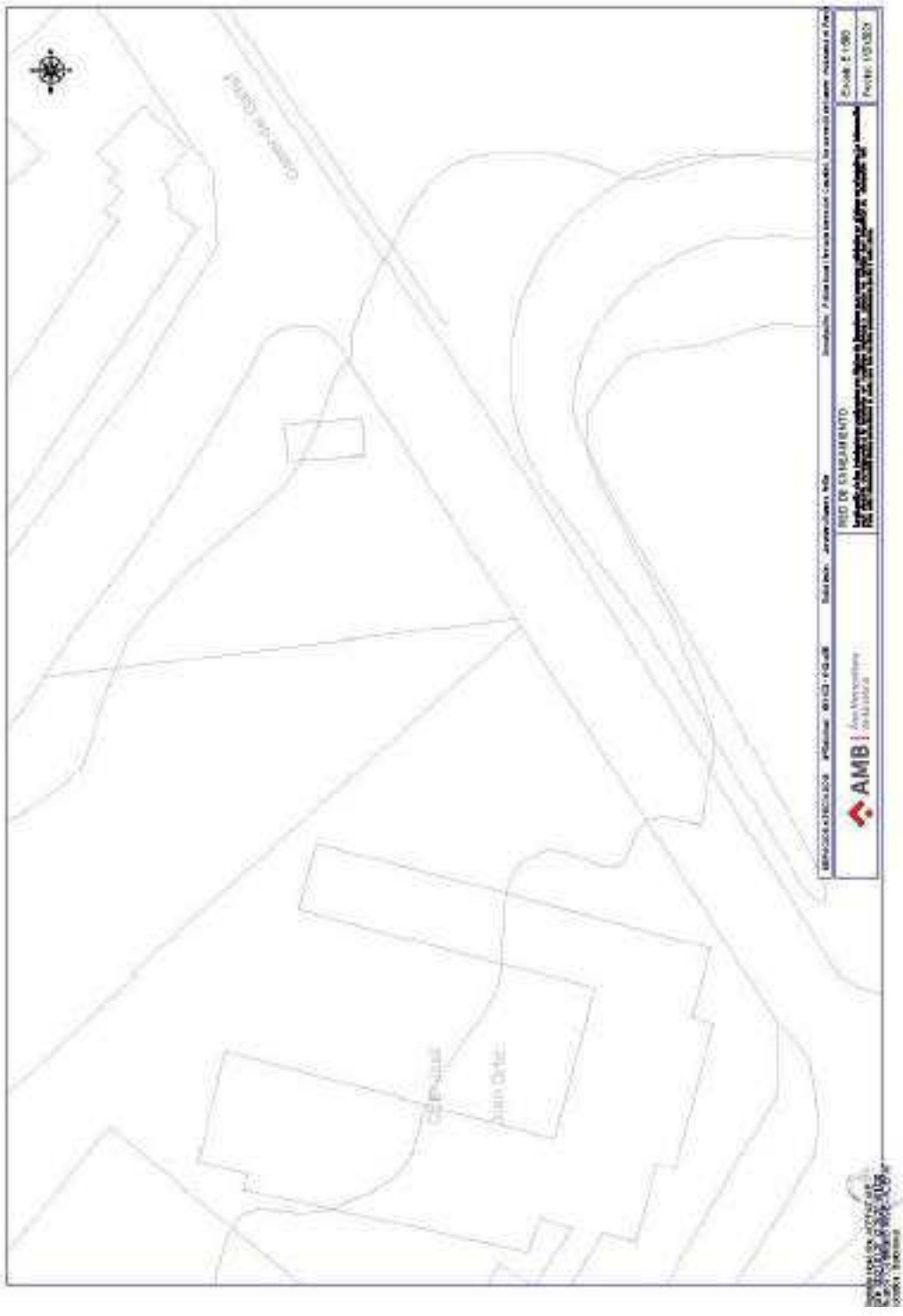
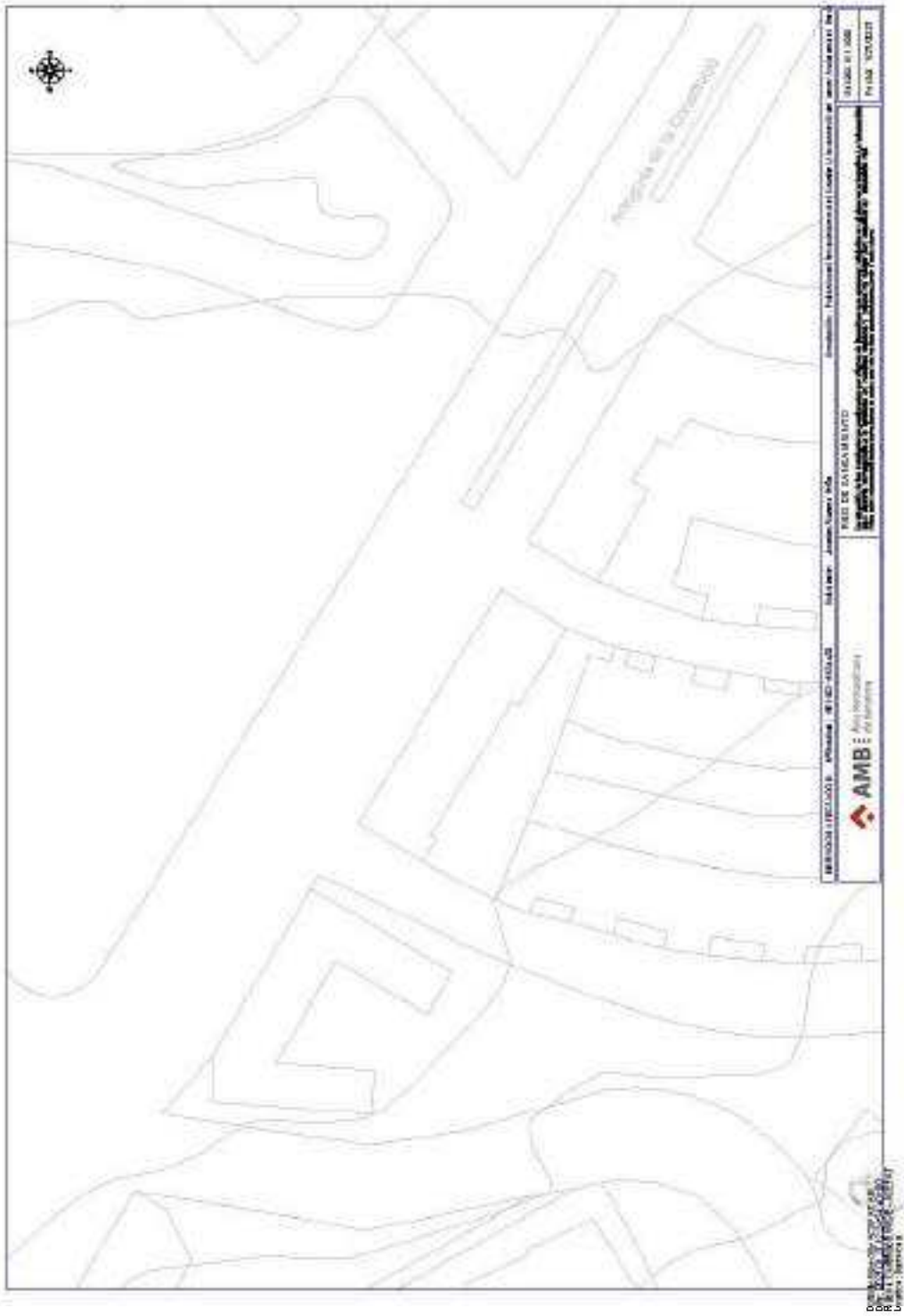
La información aportada es confidencial y de uso exclusivo para el que se solicita, siendo responsabilidad del solicitante el uso indebido de la misma.

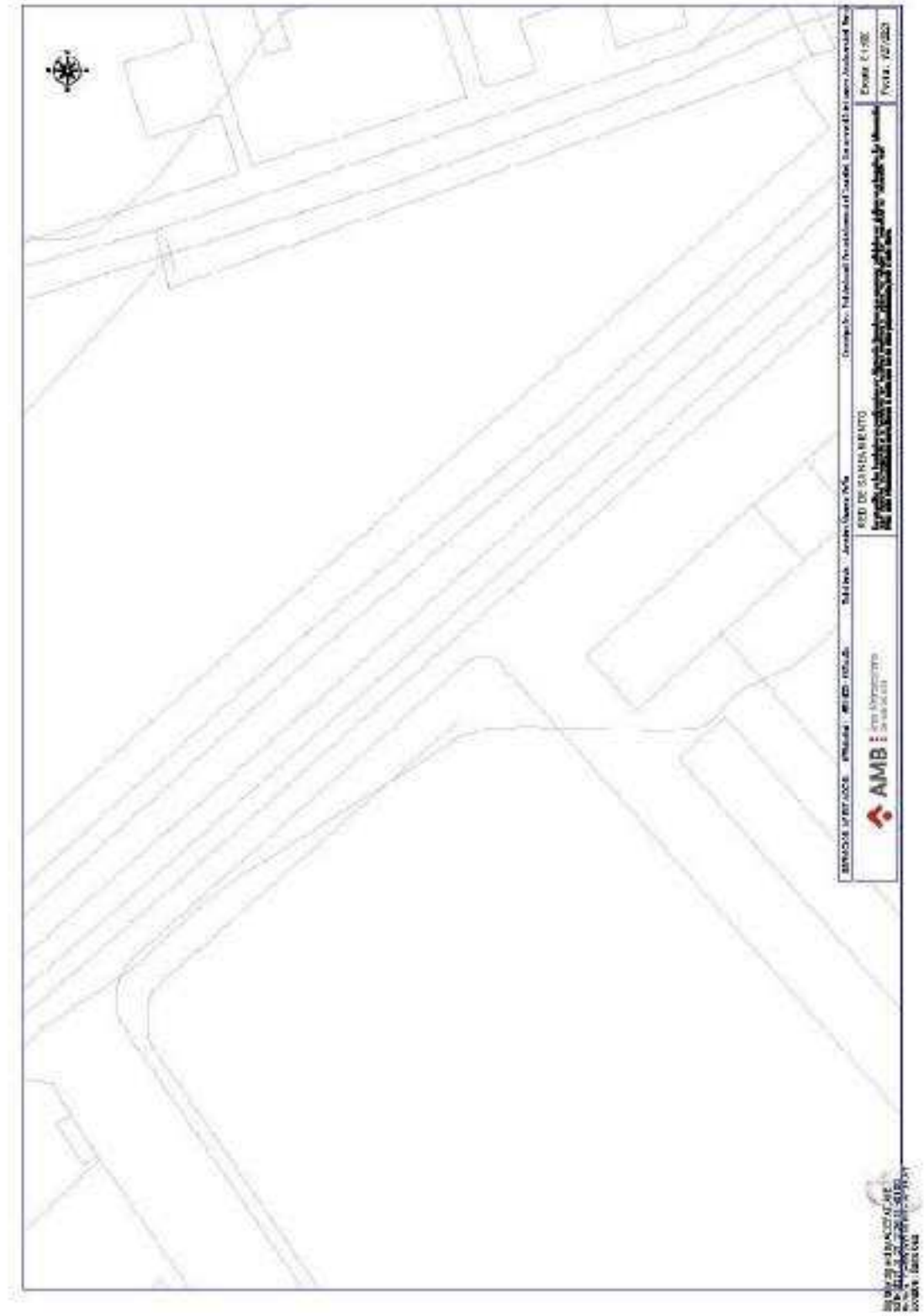
Los planos que se les envía reflejan la situación aproximada de las instalaciones de saneamiento propiedad del Área Metropolitana de Barcelona y gestionadas por Aguas de Barcelona. Los datos contenidos en este escrito y en los planos tienen carácter informativo y orientativo: corresponden a lo registrado en los archivos de Aguas de Barcelona hasta el día de la fecha, lo cual no puede ser interpretado como garantía absoluta de responder fielmente a la realidad de la ubicación de las instalaciones grafadas.

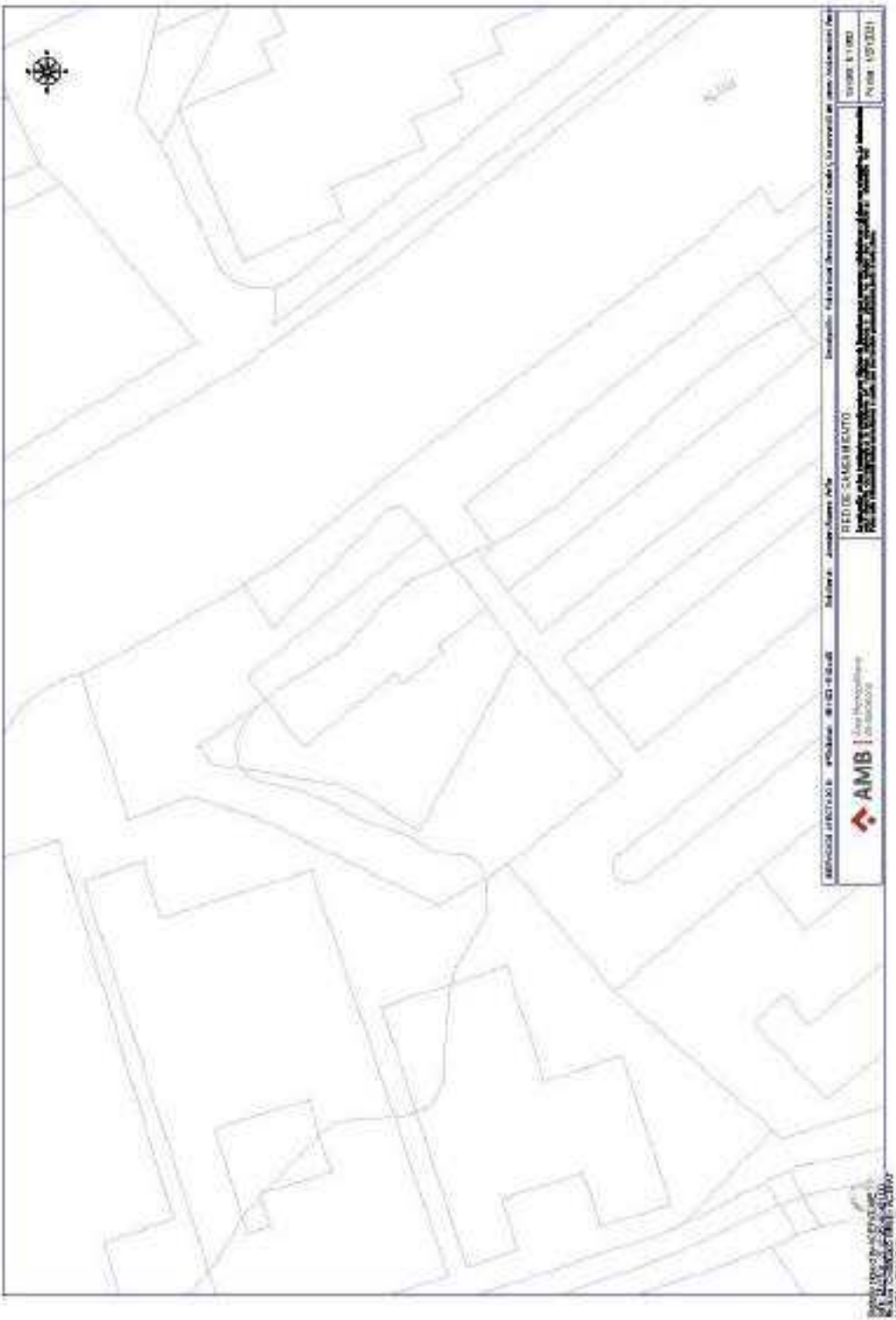
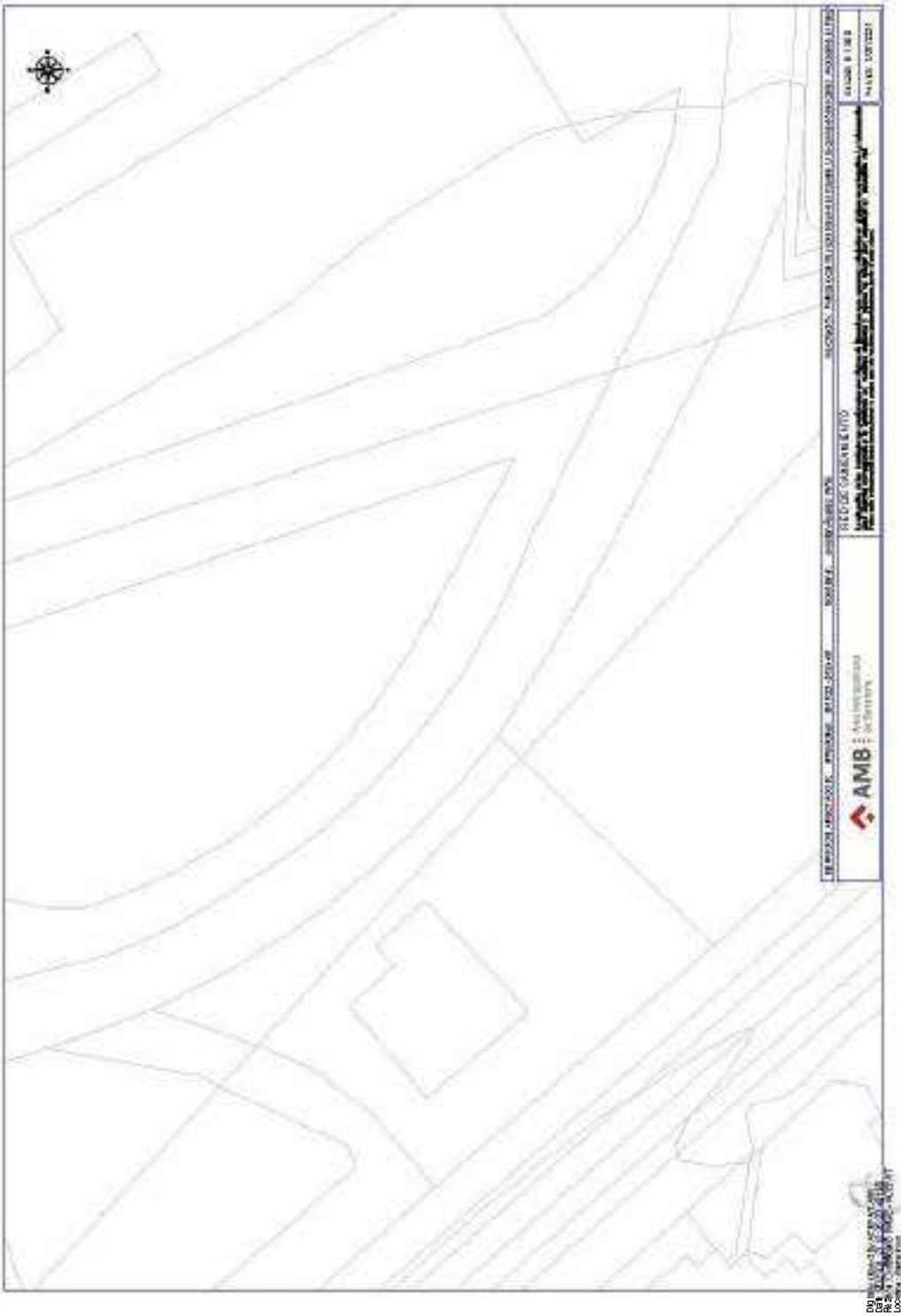
El envío de esta información no supone la autorización, ni conformidad con el proyecto de las obras, ni exonera a quienes lo ejecutaran de las responsabilidades en que incurran por daños y perjuicios a nuestras instalaciones.

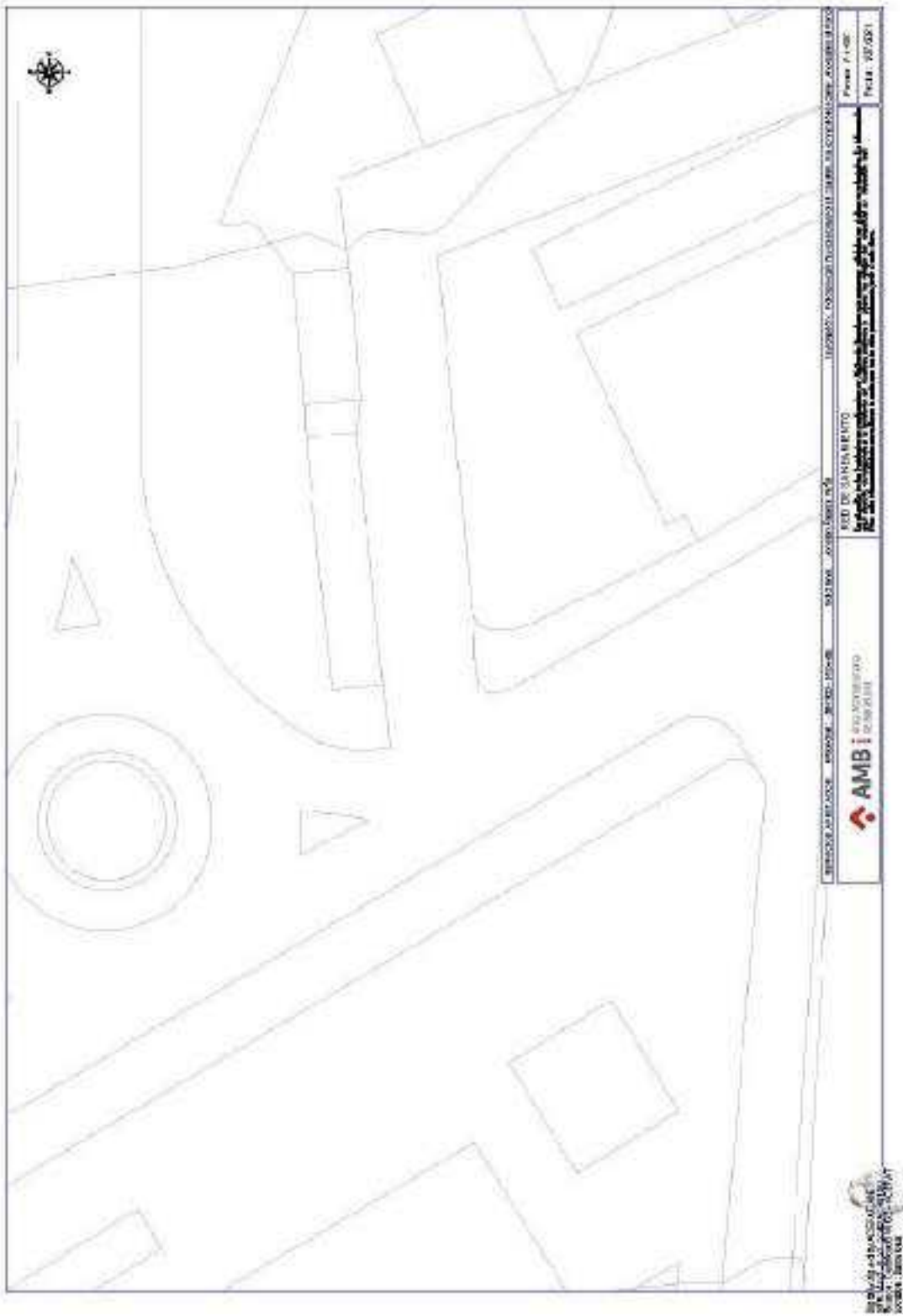
Si según lo que especifica el Reglamento Metropolitano de vertido de aguas residuales se produce afectación, habrán de solicitar la correspondiente autorización al Área Metropolitana de Barcelona, Calle 62, num. 16-18, Edificio A - Zona Franca (08040, Barcelona). El procedimiento administrativo para obtener la correspondiente autorización está descrito en la web <http://www.amb.cat>. Para cualquier duda o información, puede dirigirse al mail autoritatambiental@amb.cat o al teléfono 93 223 51 51.

Àrea Metropolitana de Barcelona









LEYENDA					
	Estación depuradora		Cámara sifón		Pozo de colector de pluviales
	Balsa deiego		Cámara seca de ofite		Red de agua regenerada
	Red de Saneamiento		Cámara sifón con aliviadero		Arqueta
	Pozo de registro		Cámara de inspección		Arqueta de desagüe
	Pozo de registro con conexión		Areneros		Arqueta de ventosa
	Pozo de registro con aliviadero		Areneros con aliviadero		Arqueta con sonda/metro
	Inicio de colector		Estación de bombeo		Arqueta de derivación
	Conexión		Estación de bombeo con aliviadero		Arqueta secciónadora
	Conexión con aliviadero		Arqueta de inspección		Tubería de fangos
	Cámara		Vértice		Arqueta de fangos
	Cámara de conexión		Vértice con aliviadero		Arqueta de giro de fangos
	Cámara con aliviadero		Emisario subterráneo		Cable de desmontaje
	Aliviadero		Estación de bombeo de emisario		Estación de bombeo de fangos

1.2.4 XARXA GAS NATURAL



Condicionantes Particulares Nedgia Catalunya, S.A.

Es de nuestro interés poner en su conocimiento los condicionantes que habrá de observar en los trabajos en proximidad de instalaciones propiedad de Nedgia Catalunya, S.A. y/o Gas Natural Redes GLP, S.A. (en adelante NEDGIA):

- La información aportada es confidencial y de uso exclusivo para el que se solicita, siendo responsabilidad del solicitante el uso indebido de la misma.
- El plano que se les envía refleja la situación aproximada de las instalaciones propiedad de NEDGIA.
- Los datos contenidos en los planos tienen carácter orientativo; corresponden a lo registrado en nuestros archivos hasta el día de la fecha, lo cual no puede ser interpretado como garantía absoluta de responder fielmente a la realidad de la ubicación de las instalaciones grafadas.
- La información refleja la situación de las redes en el momento de su instalación. Esta información puede haber variado desde entonces por actuaciones de terceros en la zona, de forma que tanto la posición de la red, como las referencias fijas pueden haber sido alteradas respecto a lo reflejado en los planos. En consecuencia, por razones de seguridad se recomienda realizar los trabajos de excavación a mano en las inmediaciones de las redes de NEDGIA.
- Si el inicio de la ejecución material de los trabajos objeto de esta solicitud es posterior a tres meses de la fecha actual, deberá solicitar de nuevo los servicios existentes para garantizar el grado de actualización de la información.
- El envío de esta información no supone la autorización ni conformidad por parte de NEDGIA al proyecto de obra en curso, ni exonera a quienes lo ejecutaran de las responsabilidades en que incurran por daños y perjuicios a nuestras instalaciones.
- En la zona solicitada pueden existir instalaciones de gas propiedad de clientes, cuyos trazados no se han incluido en los planos anexados.
- La entidad solicitante comunicará el inicio de sus actividades a NEDGIA al menos con 72 horas de antelación, dirigiéndose a Servicios Técnicos de la provincia correspondiente, enviando al efecto el escrito que se anexa al final de estos condicionantes. **Es imprescindible citar en la misma la referencia indicada en la solicitud de la información a través de la plataforma de Internet.** La dirección de envío de esta documentación es unic@nedgia.es.
- Si fuera necesario realizar obras de investigación deberán realizarse en presencia de personal de NEDGIA.
- **El Grupo Naturgy ha tomado la decisión de introducir paulatinamente la tubería de polietileno PE 100 de color negro para la distribución de gas.**
 - El tubo de PE 100 negro se identifica con franjas longitudinales amarillas distribuidas uniformemente por toda la superficie del tubo. De esta forma se diferencia de otros tubos negros utilizados en otros servicios como por ejemplo la distribución de agua que utiliza PE 100 negro con franjas azules.
 - Las franjas longitudinales serán (4) para todos los diámetros hasta 200 mm y seis a ocho (6-8) para DN 250 y 315 mm, para que, al menos una franja, sea visible desde cualquier ángulo una vez colocado el tubo en la zanja.



= El tubo de PE 100 negro con bandas amarillas tiene la misma instalación que el tubo de PE 100 naranja:

- La banda de señalización se seguirá colocando como siempre a una distancia de 20-30 cm por encima de la generatriz superior de la conducción de gas.
- Con el tubo PE 100 negro con bandas amarillas se instalarán las mismas protecciones que las utilizadas con el tubo de PE 100 naranja en instalaciones junto a otros servicios (agua, luz...etc.)
- Las tuberías e instalaciones de gas no están diseñadas para soportar sobrecarga de maquinaria pesada, por lo que si han de situarse grúas o circular vehículos sobre las mismas que pudieran originar daños, deberá ponerse esta circunstancia en conocimiento de NEDGIA con objeto de establecer los pasos necesarios debidamente señalizados y protegidos con losas de hormigón, chapas de acero o similar.
- Queda prohibido el acopio de materiales o equipos sobre las canalizaciones de gas y sus instalaciones como arquetas, tomas de potencial, respiraderos, etc., garantizándose en todo momento el acceso a la canalización de gas a fin de efectuar los trabajos de mantenimiento y conservación adecuados.
- Si se producen desmontes en las proximidades de la tubería, pudiendo en su situación final provocar deslizamientos o movimientos del terreno soporte de la conducción, deberán ser objeto de un estudio particular, determinando en cada caso, si no las hubiera, las protecciones adecuadas, al objeto de evitar los mismos.
- En el caso de uso de explosivos a menos de 300 m. de las canalizaciones de gas, su uso estará limitado, de acuerdo al condicionado específico que se fije al efecto. En todo caso, se ha de contar con una autorización especial del Órgano Territorial Competente, basada en un estudio previo de vibraciones que garantice que la velocidad de las partículas en el emplazamiento de la tubería no supere en ningún momento los 30 mm/s.
- Siempre que por la ejecución de los trabajos las instalaciones de gas afectadas queden al descubierto, se comunicará al responsable indicado de NEDGIA, procediendo el contratista a proteger y soportar la tubería de gas de acuerdo a las indicaciones de éste. Esta circunstancia se mantendrá el tiempo mínimo imprescindible y las canalizaciones se taparán en presencia de técnicos de NEDGIA.
- Los tramos al descubierto de tuberías de acero, se protegerán con manta antirroca para evitar desperfectos en el recubrimiento y, si por cualquier circunstancia, se produjera algún daño en el mismo, será reparado antes de enterrar la canalización. En caso contrario se puede originar un punto de corrosión acelerado que desembocaría en una perforación de la tubería.
- Las tuberías de acero al carbono están protegidas contra la corrosión mediante un revestimiento aislante y un sistema eléctrico de protección catódica. Para el correcto funcionamiento de esta protección es de vital importancia la integridad de dicho revestimiento. Se comunicará a NEDGIA cualquier daño que se advierta en el mismo.
- En el caso de tuberías de acero se instalarán una o varias cajas de toma de potencial (a facilitar por NEDGIA) de acuerdo a las indicaciones de los técnicos de NEDGIA, con objeto de medir y calibrar la posible influencia de la Protección Catódica a los gasoductos y viceversa.



- En el caso de que se efectúen compactaciones, siempre se contactará con el personal de Servicio Técnico designado por NEDGIA de dicha zona para que les proporcione la normativa adecuada para llevar a cabo dicha actuación, asegurando que esta se realizará de forma que la transmisión de vibraciones a la tubería de gas no supere los 30 mm por segundo.
- La Empresa que ejecute trabajos en las proximidades de instalaciones de NEDGIA deberá estar en posesión de los planos de las instalaciones existentes en la zona.
- Deberá comunicarse a NEDGIA la aparición de cualquier registro o accesorio complementario de la instalación de gas, identificado como tal, o que presumiblemente se crea pueda formar parte de ella, siempre que no esté definido en los planos de servicios suministrados.
En este sentido se indica que en las proximidades de las tuberías de gas pueden existir otras canalizaciones complementarias destinadas a la transmisión de datos, por lo que deberán extremarse las precauciones cuando se realicen trabajos en sus inmediaciones.
- Si los trabajos a realizar afectan a tapas de registros, válvulas, respiraderos o tapas de acceso a instalaciones será necesario restituirlas a la nueva cota de rasante, dejando las instalaciones afectadas libres de materiales de obra.
- En el supuesto de sufrir daños en sus instalaciones, NEDGIA se reserva el derecho a emprender las acciones legales que considere oportunas, así como reclamar las indemnizaciones a que haya lugar.
- Todos los daños a personas e instalaciones que pudieran producirse como consecuencia de las obras, serán por cuenta y riesgo del promotor o ejecutor de las mismas, incluso los derivados de un eventual corte de suministro de gas.
- Con objeto de garantizar la seguridad de las personas y de las instalaciones, cuando las obras a realizar sean canalizaciones (eléctricas, agua, comunicaciones, etc.), se tendrá en cuenta la exigencia de distancias mínimas de separación en paralelismos y cruzamientos entre servicios de acuerdo a la reglamentación vigente y se debe comprobar, mediante el código de colores, la presión de la red próxima a su actuación. Se adjunta tabla resumen:

DISTANCIA	RANGO	CRUCE	PARALELISMO
MÍNIMA	MOP < 5 bar	0,2 m	0,2 m
	MOP >= 5 bar ⁽¹⁾	0,2 m	0,4 m
Recomendada	MOP < 5 bar	0,6 m	0,4 m
	MOP >= 5 bar ⁽¹⁾	0,8 m	0,6 ⁽¹⁾ m

(1) 2,5 m en zona semiurbana y 5 m en zona rural
(*) Para P> 16 bar y distancia <10 metros es necesario consultar condiciones a Distribuidora.



- En el caso de que no puedan mantenerse las distancias mínimas indicadas debe informarse a NEDGIA, para adoptar las medidas de protección que se consideren convenientes de acuerdo a la siguiente puntualización:
- Contigua a la zona de servidumbre permanente existe una zona de seguridad, definida en la Norma UNE 60.305.63, que se extiende hasta 2,5, 5 o 10 metros a cada lado del eje de la canalización, en la cual la ejecución de la excavaciones u obras puede representar un cambio en las condiciones de seguridad de la misma y en la que no se dan las limitaciones ni se prohíben las obras incluidas como prohibidas en la zona de servidumbre de paso, siempre que se informe previamente al titular de la instalación, para la adopción de las acciones oportunas que eviten los riesgos potenciales para la canalización.
 - Los trabajos en proximidad se efectuarán con medios manuales quedando prohibido por razones de seguridad la utilización de medios mecánicos, las precauciones se intensificarán a 0,40 m sobre la cota estimada de la tubería o ante la aparición de la malla o banda amarilla de señalización, permitiéndose exclusivamente el uso de martillo mecánico de mano para la rotura del pavimento.
 - Las obras de túneles, vaciado de terrenos, perforación dirigida, etc., que pueden afectar a la tubería por debajo o lateralmente requerirán especial atención.
 - Para dar cumplimiento a la legislación vigente en materia de prevención de riesgos laborales, le informamos de los riesgos de las instalaciones:
 - Al objeto de dar cumplimiento a lo establecido en el R.D. 171/2004 sobre coordinación de actividades empresariales, y para garantizar la seguridad de sus trabajadores, NEDGIA informa a la empresa solicitante que las instalaciones representadas en los planos adjuntos se encuentran en régimen normal de explotación, es decir, CON gas a presión.
 - Se prohíbe hacer fuego o emplear elementos que produzcan chispas en las inmediaciones de las instalaciones de gas.
 - En el caso de que se detecte una fuga o se perciba olor a gas, deben de suspenderse inmediatamente todo tipo de trabajos en el entorno de la instalación y avisar de inmediato al Centro de Control de Atención de Urgencias de NEDGIA, comunicando esta circunstancia.
 - El solicitante queda obligado a adoptar las medidas preventivas que sean necesarias de acuerdo a los condicionantes de instalación mencionados anteriormente y aquellas otras que pudieran ser necesarias en función de los riesgos de la actividad a desarrollar. Así mismo queda obligado a transmitir las medidas preventivas derivadas del párrafo anterior a sus trabajadores o terceros que pudiera contratar.
 - En la ejecución de los trabajos que realice deberá respetar lo dispuesto en el RD 1627/1997 Disposiciones Mínimas de Seguridad y Salud en Obras de Construcción.
 - En esta información de riesgos no se contemplan los riesgos derivados del trabajo a realizar por los trabajadores de la empresa solicitante o sus empresas de contrata, siendo responsabilidad de ésta o de sus empresas de contrata la evaluación de los mismos y la adopción de las medidas preventivas que sean necesarias.
 - Si para ello fuese necesario disponer de más información acerca de las instalaciones, rogamos nos lo soliciten por escrito y con anterioridad al inicio de los trabajos.



- ◊ Ponemos a su disposición el teléfono del CCAU (Centro de Control de Atención de Urgencias) de NEDGIA para que comuniquen de inmediato cualquier incidencia que pueda suponer riesgo: 900.755.750 (24 horas durante todos los días del año)

ESTAS INSTRUCCIONES ESTARÁN DISPONIBLES PERMANENTEMENTE EN EL LUGAR DE TRABAJO



MODIFICACIÓN DE INSTALACIONES Y CONDICIONANTES TÉCNICOS

Si fuera necesario modificar el emplazamiento de nuestras instalaciones es preciso que, previamente al inicio de las obras, se realice por escrito la correspondiente solicitud de desvío indicando como referencia el nº de solicitud de información, al objeto de proceder a la firma del acuerdo correspondiente y efectuar el pago de la cantidad establecida. Las solicitudes deben dirigirse a la siguiente dirección:

OFICINA TÉCNICA

Plaça del Gas, 1. Edificio C Planta 1.
08003, BARCELONA.

O bien a la dirección de correo electrónico: sdesplazamien@nedgia.es

Asimismo, nos ponemos a su disposición para estudiar los Condicionantes Técnicos, específicos a su tipología de obra, o las soluciones posibles para minimizar las interferencias entre las obras a ejecutar y las instalaciones de gas existentes en la zona.

Para ello, es necesario que se ponga en contacto con esta Unidad y que nos faciliten su documentación (planos, detalles, memorias, etc.) de la obra a realizar en las proximidades de la red de NEDGIA.

Nedgia Catalunya, S.A.
Gas Natural Redes GLP, S.A.



1.2.6 XARXA DE COMUNICACIONS



CONDICIONANTES TÉCNICOS PARTICULARES DE LA INFRAESTRUCTURA DE TELEFÓNICA DE ESPAÑA

La información aportada es confidencial y de uso exclusivo para el que se solicita, siendo responsabilidad del solicitante el uso indebido de la misma.

El envío de esta información no supone la autorización ni conformidad por parte de Telefónica de España al proyecto de obra relacionado ni exonera a quienes lo ejecutaran de las responsabilidades en que incurran por daños y perjuicios a nuestras instalaciones.

INFORMACIÓN SOBRE PLANOS

La situación de la infraestructura reflejada en planos tiene carácter **orientativo**, por lo que la localización real de nuestras instalaciones puede diferir ya que los distintos elementos de la red están sometidos a constates modificaciones que pueden no estar recogidas en la información gráfica suministrada.

Por este motivo, las infraestructuras subterráneas se reflejan sin coordenadas geográficas ni acotaciones de distancia a elementos del dominio público y cualquier interpretación basada exclusivamente en distancias escalables puede resultar errónea.

Los planos contienen únicamente información de infraestructura canalizada. No se aporta información sobre los cables telefónicos.

Si el inicio de ejecución material de los trabajos objeto de esta solicitud es posterior a tres meses de la fecha de obtención a través de la plataforma digital, deberá solicitar de nuevo los servicios existentes para garantizar la actualización de la información.

Si en alguna zona se tuviera constancia de que pudieran existir redes telefónicas por la presencia de elementos

visibles de estas redes (por ejemplo: tapas de arquetas, tapas de Cámaras de Registro, salidas de cable a fachada, etc.) incluso si dicha infraestructura no se encuentre reflejada en planos, el procedimiento adecuado para determinar su ubicación exacta sería la realización de catas.

Adicionalmente, si fuese necesario descubrir o cruzar en algún punto la infraestructura telefónica existente, los trabajos deberán realizarse siempre con medios exclusivamente manuales, quedando expresamente prohibido el uso de medios mecánicos tales como retroexcavadoras o similares.

Cuando sea necesaria la señalización de los cables sobre el terreno, pueden solicitarlo a Telefónica de España siempre con una antelación mínima de 48 horas llamando al 900 111 002 y cuando la locución solicite el número de teléfono en avería volver a marcar 900 111 002 para que la llamada sea atendida por un agente. En esta llamada se debe indicar explícitamente que solicitan generar un boletín de señalización.

En caso de realizarse labores de refuerzo del firme o pavimentación que afectase a los registros existentes (tapas de arquetas) las citadas tapas deberán ser colocadas a la misma rasante final de la nueva pavimentación, y los marcos de dichas tapas se cimentarán mediante hormigón de alta resistencia en toda su superficie de apoyo, evitando en todo momento huecos que permitan el hundimiento o flexión de dicho marco. Por motivos de seguridad, los citados registros deben quedar libres de cualquier obstáculo que impida su apertura por personal autorizado.

Los elementos exteriores de la instalación telefónica que resulten afectados por las obras serán reinstalados por el contratista adjudicatario de la obra y a sus expensas.

En todo caso se respetará la normativa vigente en lo que se refiere a cruces y paralelismos con otras instalaciones respetando las distancias reglamentarias en relación con el prisma de hormigón, así como las protecciones a colocar en caso de necesidad.

En el caso de paralelismo, se evitará mediante una capa separadora el contacto directo entre el hormigón de la nueva canalización con el hormigón de la existente y en el caso de cruce, la nueva canalización deberá discurrir por debajo de la existente.

DESCUBIERTOS DE CANALIZACIONES

Siempre que por la ejecución de los trabajos las instalaciones de Telefónica queden al descubierto, se asegurarán las paredes de la zanja mediante entibación, y se tomarán las medidas oportunas que garanticen la indeformabilidad y defensa contra golpes del prisma de hormigón. Si por alguna circunstancia se produjeran daños en el mismo, será reparado antes de enterrar la canalización.

Al hacer el trazado de la zanja se pondrá especial cuidado en evitar en lo posible el encuentro con canalizaciones de Telefónica

La reposición de la canalización descubierta deberá contemplar la instalación de una banda señalizadora en todo el ancho/largo de la canalización, situada sobre el material granular todo uno, convenientemente compactado, y cubierto con una placa de hormigón de al menos 30cm de espesor, previo al enlosado o pavimentado. Los tubos y estructuras que queden al descubierto se soportarán según normativa técnica.

En caso de Averías y Emergencias relacionadas con la red de Telefónica de España, se debe llamar al 900 111 002 y cuando la locución solicite el número de teléfono en avería volver a marcar 900 111 002 para que la llamada sea atendida por un agente.

COMUNICACIÓN DE PROYECTOS DE SERVICIOS AFECTADOS

Cuando sea necesario comunicar proyectos de Servicios Afectados a Telefónica, deberá remitir correo electrónico a proyectos.servicios@telefonica.com adjuntando la documentación relevante en formato PDF o facilitando en el propio correo electrónico el enlace desde el que descargar el referido proyecto, evitando el envío de documentación en papel y CD/DVDs.

SOLICITUD DE MODIFICACIÓN DEL TRAZADO DE INSTALACIONES TELEFÓNICAS

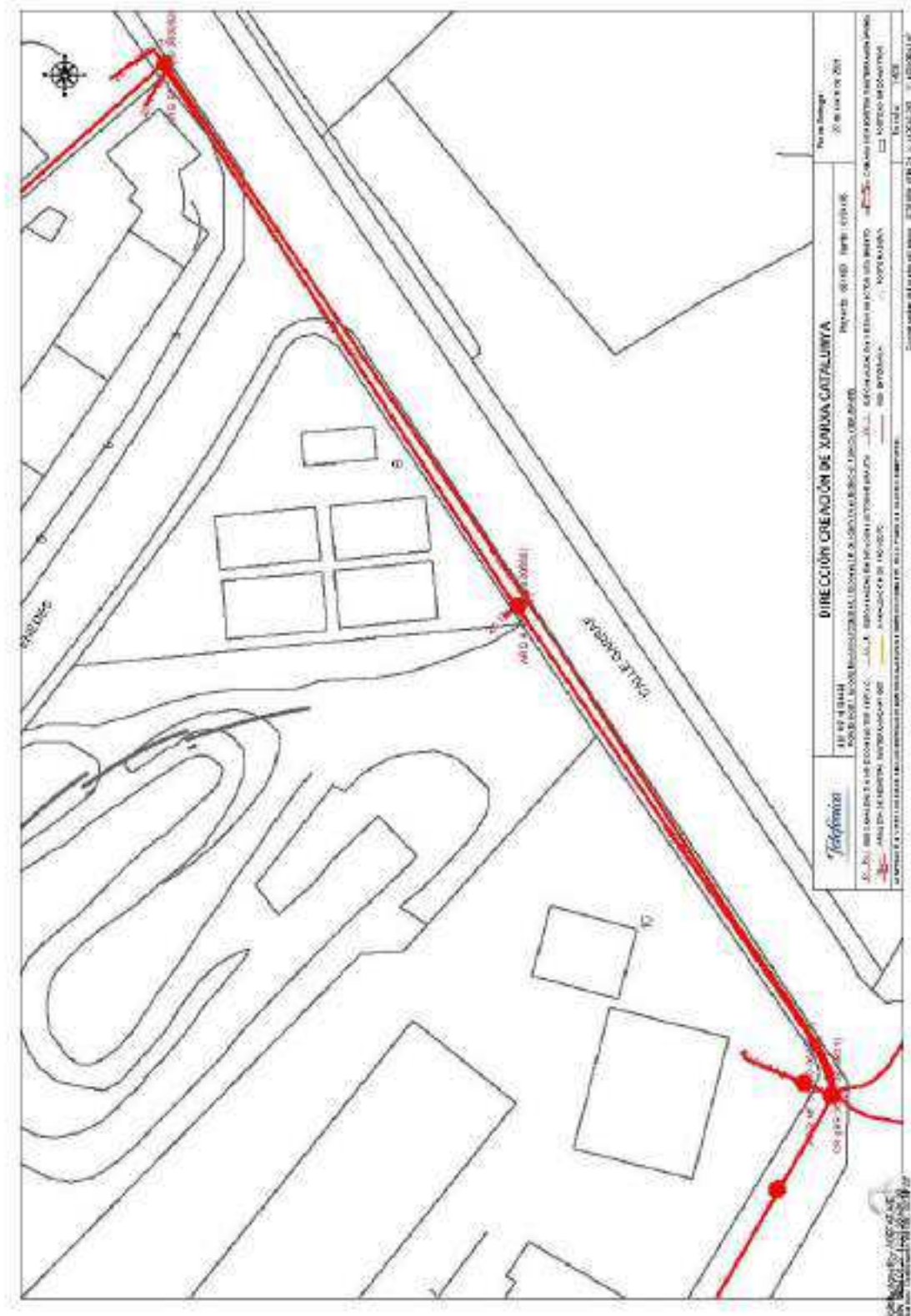
Es imprescindible que el solicitante de la modificación del trazado de instalaciones telefónicas sea el promotor de las obras o en su defecto, la empresa adjudicataria de las obras, en cuyo caso deberá aportar el contrato firmado con el promotor que justifique la adjudicación del proyecto que requiere modificar el trazado de las instalaciones telefónicas. Telefónica de España no gestionará ninguna petición que provenga de otro solicitante.

Si para la correcta ejecución de las obras fuera necesario modificar el trazado de las instalaciones telefónicas, se deberá realizar con carácter previo al inicio de las obras y preferiblemente en la fase de redacción del proyecto, la correspondiente solicitud de modificación del trazado de instalaciones telefónicas enviando correo electrónico a variaciones_y_modificaciones@telefonica.com adjuntando la siguiente documentación:

- Solicitud por escrito debidamente cumplimentada y firmada por el promotor de la obra
- Planos del proyecto en los que se refleje la solución propuesta para modificar el trazado de las instalaciones telefónicas propiedad de Telefónica de España
- Número de solicitud proporcionado por la plataforma que facilita la información y cartografía digital de los servicios afectados.

Las obras necesarias para modificar el trazado de las instalaciones telefónicas deberán consensuarse con Telefónica de España realizando la interlocución a través del mencionado correo electrónico y se tomará como punto de partida la solución propuesta por el promotor o empresa contratista adjudicataria.

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Servicios Afectados VODAFONE-ONO
Av. Diagonal 123
08005 Barcelona
servicios.affecteds.catalunya@vodafone.com

Código de servicio afectado:
551103-14402007

Barcelona, a 27/01/2021

Estimados Señores,

Por la presente, les adjuntamos el plano donde están representados gráficamente nuestros servicios en respuesta a su escrito, donde se nos solicitaba la posible existencia de los mismos en el ámbito del asunto de este mensaje.

También les indicamos que los datos facilitados son a título orientativo y no se podrá eludir ninguna responsabilidad alegando que la información aportada sea defectuosa ya que puede resultar afectada por la topografía del terreno, por modificaciones pendientes de nuestro entorno gráfico o por obras que pudieran realizarse desde el transcurso de esta petición hasta la ejecución de su proyecto.

En caso de afección de nuestros servicios o para cualquier consulta, pueden dirigirse a la dirección de correo electrónico servicios.affecteds.catalunya@vodafone.com utilizando el código de servicio afectado aportado en la cabecera.

Conservación de Red
 Servicios Afectados Catalunya

