

PROYECTO CONSTRUCCIÓN DE ITINERARIO CICLISTA EN LA AVENIDA MARÍA AZCÁRATE EN BURLADA (NAVARRA).

ANEJO Nº1 TOPOGRAFÍA



Ayuntamiento de **Burlada**
Burlatako Udala



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MEMORIA TOPOGRÁFICA DE LOS TRABAJOS REALIZADOS
PARA LA REDACCIÓN DEL PROYECTO DEL CARRIL BICI EN LA
CALLE MARIA AZCARATE DE BURLADA.

1. OBJETO

El objeto del trabajo es la elaboración de la cartografía de detalle para la Redacción del proyecto de Carril Bici en la calle María Azcarate de Burlada. Todo el trabajo topográfico se ha apoyado y enlazado en la Red de Geodesia Activa de Navarra (RGAN) para planimetría y en el modelo de geoide EGM08-REDNAP para altimetría. Se ha utilizado para el cálculo de las coordenadas el sistema de referencia European Terrestrial Reference System 1989 (ETRS89).

2. MÉTODO DE OBSERVACIÓN Y CÁLCULO

Para obtener las coordenadas de los puntos, hemos utilizado técnicas GPS EN TIEMPO REAL con un receptor GPS SETTOP AL-102 con conexión a Internet a partir de la RED DE GEODESIA ACTIVA de Navarra, utilizando la solución de RED. Este servicio permite conseguir un posicionamiento preciso en el mismo instante en que se realiza la medición con precisión centimétrica en tiempo real. En las zonas donde no se ha podido utilizar el GPS, se han tomado los puntos con una Estación Total AGA de la serie Geodimeter 620 con un error en lectura angular de ± 2 seg. cent. y un error en distanciometría de $3 \text{ mm.} \pm 5 \text{ PPM}$. Después de tomar los datos y calcular sus coordenadas se ha digitalizado el dibujo con AutoCad, obteniendo la topografía del terreno existente y el modelo digital del terreno en 3D.

COORDENADAS DEL LEVANTAMIENTO TOPOGRÁFICO

Nombre	Coord. X (m)	Coord. Y (m)	Coord. Z (m)
2	613578.63	4742369.10	423.52
4	613575.62	4742366.46	423.39
5	613576.27	4742365.44	423.44
6	613576.37	4742364.62	423.38
7	613576.34	4742364.53	423.22
8	613579.27	4742360.56	423.35
9	613579.30	4742360.47	423.21
10	613580.11	4742360.47	423.35
12	613580.53	4742360.74	423.32
13	613580.34	4742360.08	423.33
14	613581.28	4742360.82	423.33
15	613582.04	4742359.84	423.34
16	613580.81	4742365.94	423.52
17	613583.96	4742361.78	423.38
18	613587.75	4742357.38	423.39
19	613586.40	4742354.84	423.28
20	613585.51	4742354.04	423.23
21	613586.32	4742353.15	423.27
22	613586.44	4742352.38	423.17
23	613586.55	4742352.17	423.05
24	613589.03	4742349.77	423.34
25	613589.02	4742349.67	423.11
26	613590.00	4742352.65	423.32
27	613587.71	4742354.02	423.29
28	613589.42	4742354.40	423.34
29	613590.66	4742354.32	423.37
30	613592.23	4742352.82	423.41
31	613591.86	4742352.41	423.38
32	613593.00	4742351.40	423.34
33	613593.37	4742351.77	423.35
34	613594.22	4742351.24	423.38
35	613592.92	4742348.90	423.37
36	613592.18	4742347.90	423.27
37	613591.94	4742349.62	423.29
38	613594.00	4742346.48	423.25
39	613593.98	4742346.41	423.12
40	613596.49	4742346.61	423.31

42	613597.16	4742346.51	423.24
43	613598.32	4742345.56	423.22
44	613598.38	4742345.48	423.03
45	613598.44	4742347.19	423.30
46	613599.65	4742347.20	423.33
47	613602.24	4742345.80	423.26
48	613602.19	4742345.69	423.14
49	613603.60	4742347.28	423.23
50	613605.22	4742348.70	423.27
51	613606.26	4742349.32	423.23
52	613605.80	4742351.43	423.28
53	613596.05	4742350.41	423.36
54	613597.70	4742350.13	423.38
55	613599.05	4742350.48	423.36
56	613599.80	4742350.99	423.37
57	613602.75	4742354.77	423.40
58	613605.81	4742358.66	423.48
59	613604.34	4742359.45	423.64
60	613602.06	4742356.88	423.72
61	613599.53	4742354.15	423.72
62	613595.33	4742353.37	423.62
63	613597.00	4742357.11	423.87
64	613599.74	4742357.52	423.92
65	613599.67	4742358.26	423.92
66	613597.98	4742360.05	423.90
67	613597.20	4742358.59	423.91
68	613598.37	4742358.56	423.90
69	613599.40	4742362.32	423.93
70	613592.07	4742364.48	423.87
71	613592.83	4742370.67	423.93
72	613587.92	4742369.21	423.90
73	613592.56	4742357.32	423.65
74	613588.36	4742361.67	423.70
75	613583.92	4742367.24	423.80
76	613585.88	4742378.55	423.98
77	613581.64	4742375.76	423.86
78	613577.72	4742373.22	423.73
79	613576.14	4742373.00	423.62
80	613573.39	4742372.31	423.50
81	613576.06	4742368.10	423.42
82	613574.72	4742367.18	423.36

83	613574.61	4742367.15	423.23
84	613574.38	4742367.00	423.24
85	613574.15	4742367.92	423.27
86	613572.38	4742370.63	423.24
87	613571.86	4742371.38	423.26
88	613571.94	4742371.44	423.41
89	613571.70	4742371.19	423.28
90	613571.45	4742371.20	423.29
91	613571.99	4742372.19	423.38
92	613571.34	4742373.21	423.43
93	613572.35	4742373.85	423.48
94	613569.72	4742374.33	423.40
95	613571.56	4742375.82	423.54
96	613573.12	4742377.64	423.63
97	613574.61	4742378.80	423.78
98	613577.76	4742379.87	423.89
99	613582.08	4742382.22	424.05
100	613578.45	4742388.16	424.05
101	613574.04	4742385.33	423.94
102	613570.83	4742382.95	423.90
103	613569.95	4742382.55	423.78
104	613570.18	4742380.49	423.64
105	613568.62	4742379.65	423.60
106	613567.97	4742380.67	423.64
107	613567.61	4742379.01	423.58
108	613565.77	4742380.92	423.57
109	613565.66	4742380.94	423.45
110	613565.29	4742380.72	423.46
111	613563.33	4742385.53	423.69
112	613562.68	4742386.55	423.67
113	613561.91	4742386.79	423.71
114	613561.90	4742386.67	423.55
115	613561.47	4742386.62	423.57
116	613565.96	4742388.73	423.88
117	613567.02	4742388.73	423.98
118	613571.90	4742391.87	424.09
119	613564.58	4742366.64	423.30
120	613567.30	4742362.43	423.22
121	613567.11	4742362.24	423.25
122	613567.03	4742362.22	423.39
123	613566.60	4742362.98	423.29

124	613564.80	4742365.72	423.29
125	613564.36	4742366.49	423.28
126	613564.30	4742366.42	423.42
127	613563.60	4742366.65	423.44
128	613562.61	4742365.97	423.49
129	613561.92	4742366.97	423.48
130	613564.66	4742358.66	423.45
131	613562.32	4742362.31	423.50
132	613560.70	4742364.78	423.53
133	613562.88	4742365.52	423.48
134	613565.62	4742361.32	423.42
135	613571.35	4742363.85	423.34
136	613567.64	4742369.49	423.45
137	613563.40	4742376.08	423.54
138	613555.76	4742372.35	423.64
139	613555.63	4742372.55	423.65
140	613556.23	4742372.85	423.61
141	613558.26	4742368.55	423.56
142	613562.91	4742368.69	423.32
143	613562.86	4742368.64	423.44
144	613562.73	4742368.96	423.34
146	613560.54	4742372.36	423.38
147	613560.37	4742372.62	423.38
148	613560.28	4742372.58	423.52
150	613557.72	4742375.51	423.60
151	613557.25	4742375.23	423.62
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154	613554.90	4742380.04	423.55
155	613554.26	4742381.07	423.68
156	613554.85	4742380.94	423.63
157	613555.04	4742380.86	423.48
158	613558.86	4742383.02	423.68
159	613554.35	4742389.99	423.82
160	613552.57	4742384.63	423.56
161	613552.56	4742384.52	423.75
162	613550.64	4742386.50	423.75
163	613550.02	4742387.54	423.76
164	613550.14	4742380.85	423.81
165	613550.78	4742379.96	423.83
166	613549.43	4742378.99	423.85

167	613546.60	4742383.31	423.91
168	613547.98	4742384.22	423.89
169	613545.25	4742388.41	424.00
172	613548.20	4742391.30	423.93
173	613548.20	4742391.42	423.78
174	613552.05	4742393.43	423.86
175	613546.35	4742402.23	424.08
176	613544.78	4742396.60	423.90
177	613544.69	4742396.66	424.08
178	613546.39	4742393.18	423.95
179	613545.73	4742394.19	423.97
180	613542.00	4742393.56	424.16
181	613540.63	4742392.60	424.15
182	613537.89	4742396.85	424.27
183	613539.17	4742397.71	424.23
184	613542.04	4742399.85	424.08
185	613541.38	4742400.87	424.12
186	613539.04	4742402.88	424.37
187	613540.04	4742403.78	424.23
188	613540.09	4742403.86	424.04
189	613544.01	4742405.81	424.14
190	613533.25	4742406.97	424.48
191	613531.86	4742406.09	424.50
192	613529.07	4742410.24	424.65
193	613530.50	4742411.18	424.65
194	613532.56	4742409.45	424.45
195	613533.65	4742412.79	424.53
196	613532.98	4742413.81	424.51
197	613534.96	4742411.58	424.47
198	613535.07	4742411.54	424.30
199	613538.90	4742413.71	424.41
200	613534.01	4742421.20	424.57
201	613531.38	4742417.20	424.42
202	613531.39	4742416.99	424.54
204	613530.42	4742417.44	424.63
205	613529.94	4742417.21	424.57
206	613528.91	4742415.01	424.63
207	613527.51	4742415.73	424.65
208	613529.30	4742419.43	424.68
209	613528.63	4742420.45	424.62
210	613524.43	4742420.48	424.78

211	613523.05	4742419.58	424.80
212	613520.30	4742423.82	424.95
213	613521.66	4742424.69	424.92
214	613525.06	4742425.89	424.79
215	613524.41	4742426.92	424.77
216	613526.95	4742423.90	424.74
217	613527.08	4742423.82	424.55
218	613531.48	4742425.08	424.68
219	613527.11	4742431.78	424.80
220	613523.14	4742429.91	424.81
221	613522.93	4742430.02	424.87
222	613516.87	4742432.11	425.08
223	613520.74	4742432.52	424.93
224	613520.09	4742433.54	425.06
225	613517.24	4742436.06	425.07
226	613518.56	4742436.83	425.06
227	613518.60	4742436.89	424.88
228	613522.73	4742438.63	425.04
229	613516.52	4742439.01	425.05
230	613515.87	4742440.04	425.06
231	613511.40	4742440.54	425.33
232	613512.30	4742445.57	425.29
233	613511.65	4742446.60	425.41
234	613510.53	4742449.16	425.38
235	613510.56	4742449.25	425.26
236	613514.09	4742451.78	425.32
237	613507.74	4742449.18	425.44
238	613505.97	4742448.94	425.50
239	613508.07	4742452.08	425.50
240	613507.38	4742453.08	425.45
241	613505.84	4742456.35	425.53
242	613505.81	4742456.55	425.39
243	613508.30	4742460.68	425.57
244	613503.74	4742458.65	425.60
245	613503.13	4742459.67	425.62
246	613501.04	4742461.57	425.73
247	613501.57	4742461.81	425.67
249	613504.34	4742466.75	425.76
250	613500.49	4742464.74	425.63
251	613500.29	4742464.80	425.73
252	613499.48	4742465.21	425.71

253	613498.80	4742466.21	425.66
254	613496.44	4742463.59	425.91
255	613495.66	4742469.16	425.86
256	613496.92	4742470.06	425.86
257	613496.97	4742470.13	425.66
258	613495.20	4742471.74	425.82
259	613494.52	4742472.74	425.97
260	613498.27	4742476.13	425.89
261	613493.28	4742475.80	425.87
262	613493.13	4742475.89	426.04
263	613488.47	4742475.82	426.18
264	613490.95	4742478.33	426.12
265	613490.27	4742479.33	426.12
266	613484.55	4742481.84	426.32
267	613486.69	4742484.89	426.25
268	613486.01	4742485.89	426.29
269	613488.11	4742483.62	426.21
270	613488.07	4742483.80	426.10
271	613491.86	4742486.05	426.19
272	613486.59	4742494.10	426.40
273	613483.84	4742490.34	426.27
274	613483.69	4742490.40	426.47
275	613482.44	4742491.42	426.45
276	613481.76	4742492.42	426.38
277	613479.25	4742489.97	426.56
278	613475.16	4742496.98	426.64
279	613474.31	4742497.58	426.65
280	613472.88	4742496.87	426.72
281	613478.17	4742497.98	426.54
282	613477.49	4742498.99	426.63
283	613479.13	4742497.51	426.62
284	613479.06	4742497.71	426.41
285	613482.49	4742500.38	426.53
286	613478.48	4742506.56	426.70
287	613475.43	4742501.99	426.78
289	613475.02	4742501.73	426.70
290	613474.51	4742504.61	426.63
291	613474.34	4742504.75	426.77
292	613473.93	4742504.53	426.79
293	613473.25	4742505.53	426.80
294	613473.34	4742503.38	426.77

295	613469.74	4742502.66	426.87
296	613463.82	4742513.77	427.16
297	613460.71	4742513.03	427.33
298	613465.40	4742517.54	427.12
299	613469.19	4742511.00	426.90
300	613468.98	4742513.17	426.83
301	613468.94	4742513.11	426.96
302	613468.88	4742513.20	426.94
303	613469.41	4742513.42	426.90
304	613466.53	4742517.55	427.06
305	613466.17	4742517.34	427.05
306	613466.13	4742517.39	427.06
307	613466.17	4742517.42	426.95
308	613466.80	4742517.87	427.08
309	613469.83	4742513.15	426.83
311	613470.10	4742512.30	426.81
312	613466.01	4742518.50	427.07
313	613473.46	4742514.38	426.92
314	613472.87	4742515.27	427.01
315	613469.69	4742519.91	427.16
316	613468.95	4742520.84	427.08
317	613463.72	4742519.25	427.08
318	613463.65	4742519.19	427.25
319	613461.69	4742519.36	427.18
320	613461.72	4742519.29	427.34
321	613462.14	4742519.24	427.32
322	613461.23	4742520.04	427.21
323	613460.16	4742518.77	427.31
324	613460.18	4742518.68	427.43
325	613460.57	4742518.02	427.39
326	613461.04	4742517.03	427.39
328	613460.90	4742516.69	427.35
329	613458.91	4742517.52	427.42
330	613458.86	4742517.55	427.39
331	613456.77	4742519.76	427.36
332	613461.19	4742524.43	427.27
333	613463.80	4742528.72	427.28
334	613453.63	4742522.77	427.36
335	613453.54	4742522.83	427.53
336	613453.02	4742523.08	427.53
337	613450.84	4742523.45	427.55

338	613452.03	4742526.17	427.63
339	613452.45	4742527.64	427.57
340	613454.49	4742527.10	427.51
341	613455.28	4742525.10	427.45
342	613455.34	4742525.04	427.34
343	613456.42	4742527.04	427.23
344	613456.35	4742527.04	427.44
345	613456.80	4742530.13	427.49
346	613456.89	4742530.10	427.37
347	613455.14	4742530.23	427.61
348	613456.25	4742528.49	427.50
349	613456.02	4742527.30	427.55
350	613455.68	4742533.57	427.60
351	613455.72	4742533.66	427.45
352	613454.58	4742534.37	427.52
353	613453.88	4742535.37	427.53
354	613452.65	4742529.67	427.65
355	613452.18	4742531.47	427.72
356	613451.55	4742534.58	427.58
357	613452.02	4742536.25	427.62
358	613447.60	4742538.48	427.81
359	613448.65	4742541.22	427.74
360	613451.37	4742537.05	427.65
361	613453.63	4742536.89	427.21
362	613452.88	4742538.01	427.41
363	613452.78	4742537.93	427.56
364	613452.34	4742538.71	427.47
365	613453.08	4742538.11	427.44
366	613450.35	4742542.30	427.56
367	613450.57	4742541.45	427.55
368	613450.14	4742542.18	427.54
369	613450.05	4742542.15	427.70
370	613456.78	4742539.54	427.51
371	613453.42	4742545.20	427.65
372	613449.28	4742542.20	427.73
373	613448.23	4742542.92	427.83
375	613448.70	4742543.19	427.74
376	613444.88	4742542.60	427.88
377	613446.04	4742547.58	427.82
379	613445.41	4742549.30	427.75
380	613445.57	4742549.25	427.68

381	613449.24	4742551.57	427.77
382	613445.07	4742557.95	427.99
383	613442.08	4742554.57	427.82
384	613441.94	4742554.62	428.00
385	613441.45	4742554.50	428.02
386	613440.78	4742555.51	428.09
387	613438.07	4742553.08	428.15
388	613432.58	4742561.46	428.40
389	613437.15	4742561.18	428.15
390	613436.48	4742562.19	428.13
391	613436.55	4742562.90	428.17
392	613436.58	4742563.05	427.97
393	613439.65	4742566.38	428.20
394	613434.58	4742574.09	428.36
395	613431.04	4742571.53	428.28
396	613430.95	4742571.50	428.41
397	613429.57	4742570.91	428.40
398	613432.12	4742568.86	428.28
399	613432.79	4742567.85	428.28
400	613429.38	4742566.42	428.42
401	613423.92	4742574.83	428.55
402	613424.21	4742575.75	428.54
403	613427.68	4742575.64	428.43
404	613428.35	4742574.63	428.49
405	613432.89	4742576.69	428.41
406	613427.36	4742585.28	428.49
407	613423.38	4742583.30	428.35
408	613423.25	4742583.33	428.46
409	613423.48	4742582.21	428.56
410	613420.95	4742584.74	428.60
412	613421.47	4742585.05	428.60
413	613421.66	4742585.81	428.53
414	613421.81	4742585.75	428.39
415	613419.70	4742587.93	428.60
416	613419.03	4742588.94	428.69
417	613423.64	4742590.98	428.55
418	613419.28	4742597.72	428.65
419	613416.65	4742593.66	428.55
420	613416.53	4742593.68	428.71
421	613415.37	4742594.61	428.74
422	613414.70	4742595.63	428.69

423	613412.55	4742592.35	428.76
424	613406.67	4742601.38	428.93
425	613408.09	4742604.00	428.86
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430	613415.06	4742604.16	428.75
431	613410.30	4742611.48	428.81
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433	613405.74	4742610.29	428.84
434	613405.97	4742609.02	428.81
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436	613403.85	4742605.68	428.91
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438	613401.57	4742615.77	428.89
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441	613403.10	4742614.49	428.71
442	613406.95	4742616.60	428.82
443	613401.36	4742625.19	428.89
444	613397.70	4742622.82	428.76
445	613397.87	4742621.57	428.92
446	613397.20	4742622.58	428.92
447	613396.20	4742621.92	428.88
449	613396.58	4742623.30	428.91
450	613396.20	4742623.14	428.92
451	613395.36	4742619.89	429.05
452	613394.47	4742620.16	429.12
453	613390.38	4742618.65	429.02
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455	613391.78	4742625.27	429.11
456	613392.52	4742627.34	429.08
458	613392.83	4742629.14	428.85
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461	613387.80	4742628.59	429.24
462	613384.00	4742626.43	429.12
463	613382.28	4742621.15	429.17
464	613387.59	4742622.54	429.27
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467	613387.72	4742634.95	429.14
468	613391.92	4742631.55	429.03
469	613391.98	4742631.64	428.92
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471	613392.17	4742631.82	428.93
472	613389.41	4742636.01	428.95
473	613389.68	4742635.08	428.96
474	613389.22	4742635.86	428.92
475	613389.15	4742635.84	429.08
476	613392.73	4742638.58	429.09
477	613395.95	4742633.63	428.98
478	613399.42	4742636.25	428.86
479	613396.71	4742640.37	428.98
480	613397.18	4742640.82	428.89
481	613397.25	4742640.85	429.06
482	613397.59	4742640.04	428.92
483	613398.76	4742641.51	429.09
484	613401.05	4742637.34	429.15
485	613399.16	4742637.18	428.94
486	613399.58	4742636.40	428.83
487	613399.68	4742636.41	428.99
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489	613389.85	4742642.76	429.15
490	613385.48	4742646.76	429.18
491	613383.52	4742648.02	429.21
492	613386.18	4742649.62	429.23
493	613388.15	4742651.15	429.22
494	613388.96	4742647.80	429.14
495	613383.12	4742656.61	429.30
496	613383.00	4742656.75	429.32
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553	613366.09	4742640.63	429.05
554	613365.85	4742640.40	429.05
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557	613363.76	4742638.37	429.09
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624	613359.33	4742654.23	429.21
625	613360.64	4742654.71	429.02
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660	613425.37	4742596.73	428.48
661	613426.15	4742595.60	428.50
662	613430.40	4742589.10	428.40
663	613431.16	4742587.81	428.40
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666	613442.08	4742578.63	428.48
667	613438.74	4742576.33	428.36
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671	613450.61	4742565.53	428.30
672	613459.33	4742552.12	427.88
673	613454.73	4742551.55	427.64
674	613454.86	4742551.52	427.79
675	613457.70	4742547.14	427.71
676	613457.66	4742547.09	427.55
677	613457.38	4742546.87	427.57

678	613458.19	4742546.34	427.56
681	613460.08	4742542.67	427.49
682	613459.94	4742543.59	427.45
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686	613462.40	4742541.08	427.37
687	613462.44	4742541.18	427.49
688	613465.39	4742540.76	427.56
689	613465.46	4742540.69	427.37
690	613468.57	4742542.67	427.38
691	613468.61	4742542.67	427.49
692	613463.45	4742545.82	427.65
693	613465.29	4742545.00	427.55
694	613466.95	4742545.22	427.61
695	613467.82	4742545.87	427.60
696	613469.18	4742543.37	427.42
697	613471.52	4742540.12	427.36
698	613466.98	4742536.21	427.32
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703	613477.22	4742536.54	427.47
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705	613474.49	4742531.36	427.37
706	613475.22	4742528.30	427.21
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725	613476.51	4742518.15	426.98
726	613476.44	4742518.10	426.87
727	613476.72	4742516.45	426.86
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732	613482.64	4742508.52	426.54
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747	613511.30	4742478.54	425.91
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753	613523.01	4742454.72	425.43
754	613529.30	4742445.01	425.21
755	613525.78	4742442.41	425.04
756	613525.74	4742442.35	424.87
757	613533.79	4742429.96	424.60
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759	613537.72	4742432.09	424.87
760	613547.35	4742417.23	424.50
761	613548.07	4742416.54	424.50

762	613549.63	4742416.38	424.44
763	613551.29	4742416.87	424.41
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765	613542.68	4742416.27	424.30
766	613543.04	4742415.86	424.27
767	613545.22	4742414.60	424.23
768	613545.25	4742414.63	424.39
769	613548.11	4742414.32	424.43
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772	613550.87	4742414.68	424.35
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774	613548.43	4742411.22	424.20
775	613546.57	4742411.13	424.18
776	613546.25	4742410.85	424.16
777	613546.35	4742410.56	424.15
778	613547.75	4742408.15	424.08
779	613550.73	4742404.06	423.97
780	613550.49	4742404.21	423.96
781	613551.14	4742404.29	423.97
782	613553.24	4742407.56	424.10
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785	613554.49	4742404.49	424.15
786	613553.85	4742402.70	424.13
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788	613554.07	4742400.40	423.95
789	613554.13	4742400.37	424.08
790	613554.96	4742397.39	423.85
791	613555.03	4742397.46	424.01
792	613557.57	4742405.15	424.22
793	613556.70	4742403.99	424.19
794	613556.64	4742403.40	424.20
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798	613560.12	4742389.47	423.64
799	613517.98	4742454.38	425.39
800	613482.72	4742508.56	426.69

Zizur Mayor 12 de junio de 2024.

A handwritten signature in black ink, consisting of a large, stylized 'G' followed by 'muerza' and a horizontal line underneath.

Fdo.: Guillermo Muerza Esparza
Ingeniero en Geomática y Topografía
Nº de colegiado: 1914