
ANEJO Nº 19. REPLANTEO

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ÍNDICE

19.1. METODOLOGÍA DE REPLANTEO.....	1
19.2. LISTADOS DE REPLANTEO.....	2
19.2.1. ACTUACIÓN 1	2
19.2.2. ACTUACIÓN 2	7

ANEJO Nº 19. REPLANTEO**19.1. METODOLOGÍA DE REPLANTEO**

El replanteo de las obras contenidas en el “*PROYECTO DE CONSTRUCCIÓN: M-40. CALZADAS DE SERVICIO Y OTRAS ACTUACIONES. NUEVOS RAMALES DE CONEXIÓN DE LA M-14 Y M-21 CON VIA DE SERVICIO INTERIOR DE LA M-40. TRAMO: ENLACE M-40/M-14/M-21. MADRID*” se realizará principalmente mediante técnicas GPS, aunque también se utilizarán métodos de topografía clásica.

Se implantarán una serie de bases en coordenadas UTM que se utilizarán para las diferentes comprobaciones de las obras. Las bases que se utilicen para el replanteo de estructuras estarán en coordenadas UTM planas. El replanteo de los elementos de las estructuras se realizará por métodos clásicos, mientras que el replanteo del resto de la obra puede realizarse tanto por técnicas GPS como por topografía clásica.

A continuación se presentan los listados de replanteo cada 20 metros de cada uno de los 5 ejes que componen la actuación 1 y los dos que corresponden a la actuación 2.

19.2. LISTADOS DE REPLANTEO

19.2.1. ACTUACIÓN 1

PROYECTO : PROYECTO ORDENACIÓN Y MEJORA DE ACCESOS VIALES AL ESTADIO WANDA METROPOLITANO
 EJE : 3: EJE 3. ENLACE 2. RAMAL 1

 * * * PUNTOS DEL EJE EN PLANTA * * *

TIPO	P.K.	X	Y	RADIO	COTA	AZIMUT	DIST. EJE	Pend (%)	PERAL_I	PERAL_D	Z PROJ.	ZT (eje)	Z TERR.
CIRC. Rampa	0.000	449904.372	4476750.645	239.848	648.229	282.079466	0.000	0.304	2.51	2.51	648.229	648.933	648.933
CLOT. Rampa	0.000	449904.372	4476750.645	239.848	648.229	282.079466	0.000	0.304	2.51	2.51	648.229	648.933	648.933
CLOT. Rampa	20.000	449884.926	4476746.003	171.756	648.290	288.440260	0.000	0.304	2.51	2.51	648.289	648.761	648.761
CIRC. Rampa	30.218	449874.825	4476744.473	150.000	648.321	292.502260	0.000	0.304	2.51	2.51	648.321	648.646	648.646
CIRC. Rampa	40.000	449865.081	4476743.641	150.000	648.350	296.653862	0.000	0.304	2.51	2.51	648.350	648.569	648.569
CLOT. Rampa	57.945	449847.147	4476743.771	150.000	648.405	304.270035	0.000	0.304	2.51	2.51	648.405	648.692	648.692
CLOT. Rampa	60.000	449845.097	4476743.922	155.934	648.411	305.125533	0.000	0.304	2.51	2.51	648.411	646.330	646.330
CLOT. KV 1200	80.000	449825.292	4476746.641	253.559	648.472	311.718899	0.000	0.307	2.09	2.09	648.472	647.196	647.196
CLOT. KV 1200	100.000	449805.756	4476750.913	678.097	648.700	315.168464	0.000	1.973	0.78	0.78	648.700	649.500	649.500
CLOT. KV 1200	111.945	449794.165	4476753.800	-1000000.000	648.995	315.729190	0.000	2.969	-0.00	-0.00	648.995	650.500	650.500
CLOT. KV 1200	120.000	449786.352	4476755.759	-896.979	649.261	315.443350	0.000	3.640	-0.86	-0.86	649.261	650.207	650.207
CLOT. KV 1200	140.000	449766.846	4476760.166	-257.532	650.156	312.261606	0.000	5.307	-2.99	-2.99	650.156	647.161	647.161
CLOT. KV 1200	160.000	449747.064	4476763.045	-150.349	651.384	305.555323	0.000	6.973	-5.12	-5.12	651.384	643.564	643.564
CIRC. Rampa	177.627	449729.455	4476763.424	-110.000	652.618	296.722670	0.000	7.000	-7.00	-7.00	652.618	642.707	642.707
CIRC. Rampa	180.000	449727.087	4476763.276	-110.000	652.784	295.349310	0.000	7.000	-7.00	-7.00	652.784	643.061	643.061
CIRC. Rampa	200.000	449707.382	4476760.016	-110.000	654.184	283.774405	0.000	7.000	-7.00	-7.00	654.184	643.000	643.000
CIRC. KV -1200	220.000	449688.592	4476753.247	-110.000	655.496	272.199500	0.000	5.790	-7.00	-7.00	655.496	645.093	645.093
CIRC. KV -1200	240.000	449671.335	4476743.191	-110.000	656.487	260.624595	0.000	4.123	-7.00	-7.00	656.487	648.795	648.795
CIRC. KV -1200	260.000	449656.181	4476730.181	-110.000	657.145	249.049690	0.000	2.456	-7.00	-7.00	657.145	639.649	639.649
CIRC. KV -1200	280.000	449643.629	4476714.646	-110.000	657.470	237.474785	0.000	0.790	-7.00	-7.00	657.470	650.345	650.345
CIRC. Pendiente	300.000	449634.094	4476697.097	-110.000	657.469	225.899880	0.000	-0.500	-7.00	-7.00	657.469	651.327	651.327
CLOT. Pendiente	303.090	449632.911	4476694.243	-110.000	657.454	224.111758	0.000	-0.500	-7.00	-7.00	657.454	651.408	651.408
CLOT. Pendiente	320.000	449627.781	4476678.143	-148.140	657.369	215.584821	0.000	-0.500	-5.71	-5.71	657.369	651.671	651.671
CLOT. Pendiente	340.000	449624.074	4476658.499	-251.117	657.269	208.752243	0.000	-0.500	-4.19	-4.19	657.269	651.836	651.836
CLOT. Pendiente	360.000	449621.940	4476638.615	-823.693	657.169	205.444204	0.000	-0.500	-2.67	-2.67	657.169	651.822	651.822
CIRC. Pendiente	368.771	449621.222	4476629.873	2500.000	657.125	205.105237	0.000	-0.500	-2.00	-2.00	657.125	651.500	651.500
CIRC. Pendiente	380.000	449620.298	4476618.683	2500.000	657.069	205.391170	0.000	-0.500	-2.00	-2.00	657.069	650.912	650.912
CIRC. Pendiente	400.000	449618.526	4476598.762	2500.000	656.969	205.900465	0.000	-0.500	-2.00	-2.00	656.969	650.673	650.673
CIRC. KV 1200	420.000	449616.596	4476578.855	2500.000	656.891	206.409761	0.000	0.104	-2.00	-2.00	656.891	651.273	651.273
RECTA KV 1200	424.832	449616.105	4476574.048	0.000	656.906	206.532818	0.000	0.506	-2.00	-2.00	656.906	651.419	651.419
RECTA KV 1200	440.000	449614.551	4476558.960	0.000	657.079	206.532818	0.000	1.770	-2.00	-2.00	657.079	651.919	651.919
RECTA KV 1200	460.000	449612.503	4476539.065	0.000	657.599	206.532818	0.000	3.437	-2.00	-2.00	657.599	651.699	651.699
RECTA Rampa	480.000	449610.454	4476519.170	0.000	658.292	206.532818	0.000	3.461	-2.00	-2.00	658.292	652.292	652.292
RECTA Rampa	500.000	449608.405	4476499.275	0.000	658.984	206.532818	0.000	3.461	-2.00	-2.00	658.984	652.906	652.906
RECTA Rampa	520.000	449606.356	4476479.381	0.000	659.676	206.532818	0.000	3.461	-2.00	-2.00	659.676	653.459	653.459
RECTA Rampa	540.000	449604.308	4476459.486	0.000	660.368	206.532818	0.000	3.461	-2.00	-2.00	660.368	653.996	653.996
RECTA Rampa	560.000	449602.259	4476439.591	0.000	661.060	206.532818	0.000	3.461	-2.00	-2.00	661.060	655.021	655.021
RECTA Rampa	565.299	449601.716	4476434.320	0.000	661.244	206.532818	0.000	3.461	-2.00	-2.00	661.244	655.171	655.171

PROYECTO : PROYECTO ORDENACIÓN Y MEJORA DE ACCESOS VIALES AL ESTADIO WANDA METROPOLITANO
 EJE : 18: EJE 18. ENLACE 2. RAMAL 2

 * * * PUNTOS DEL EJE EN PLANTA * * *

TIPO	P.K.	X	Y	RADIO	COTA	AZIMUT	DIST. EJE	Pend (%)	PERAL_I	PERAL_D	Z PROJ.	ZT (eje)	Z TERR.
CIRC. Pendiente	0.000	449932.396	4476752.812	247.088	649.883	274.973417	0.000	-1.720	5.00	5.00	649.883	649.883	649.883
CIRC. KV 6013	20.000	449913.632	4476745.907	247.088	649.541	280.126401	0.000	-1.634	5.00	5.00	649.541	649.539	649.539
CIRC. KV 6013	40.000	449894.371	4476740.541	247.088	649.248	285.279384	0.000	-1.301	5.00	5.00	649.248	649.288	649.288
CIRC. KV 6013	60.000	449874.739	4476736.750	247.088	649.021	290.432367	0.000	-0.969	5.00	5.00	649.021	649.074	649.074
CLOT. KV 6013	75.093	449859.757	4476734.947	247.088	648.894	294.320958	0.000	-0.718	5.00	5.00	648.894	648.906	648.906
CLOT. KV 6013	80.000	449854.865	4476734.557	269.807	648.860	295.532115	0.000	-0.636	4.58	4.58	648.860	648.874	648.874
CLOT. KV 6013	100.000	449834.882	4476733.802	431.507	648.766	299.366993	0.000	-0.304	2.86	2.86	648.766	648.781	648.781
CLOT. KV 6013	120.000	449814.884	4476733.974	1076.921	648.739	301.433483	0.000	0.029	1.15	1.15	648.739	648.675	648.675
CLOT. KV 6013	133.371	449801.517	4476734.331	-1000000.000	648.758	301.828708	0.000	0.251	0.00	0.00	648.758	648.699	648.699
CLOT. KV 6013	140.000	449794.891	4476734.514	-1089.982	648.778	301.635133	0.000	0.362	-0.83	-0.83	648.778	648.738	648.738
CLOT. KV 6013	160.000	449774.893	4476734.660	-271.325	648.884	298.704734	0.000	0.694	-3.35	-3.35	648.884	648.859	648.859
CLOT. KV 6013	180.000	449754.946	4476733.333	-154.948	649.056	292.249797	0.000	1.027	-5.87	-5.87	649.056	648.957	648.957
CIRC. Rampa	188.948	449746.103	4476731.974	-130.000	649.154	288.220490	0.000	1.136	-7.00	-7.00	649.154	649.110	649.110
CIRC. Rampa	200.000	449735.339	4476729.482	-130.000	649.279	282.808424	0.000	1.136	-7.00	-7.00	649.279	649.283	649.283
CIRC. Rampa	220.000	449716.550	4476722.688	-130.000	649.507	273.014274	0.000	1.136	-7.00	-7.00	649.507	649.531	649.531
CIRC. Rampa	240.000	449699.023	4476713.094	-130.000	649.734	263.220123	0.000	1.136	-7.00	-7.00	649.734	649.757	649.757
CIRC. Rampa	260.000	449683.174	4476700.929	-130.000	649.961	253.425973	0.000	1.136	-7.00	-7.00	649.961	649.976	649.976
CIRC. Rampa	280.000	449669.376	4476686.478	-130.000	650.188	243.631823	0.000	1.136	-7.00	-7.00	650.188	650.205	650.205
CIRC. KV 7636	300.000	449657.955	4476670.083	-130.000	650.428	233.837672	0.000	1.321	-7.00	-7.00	650.428	650.418	650.418
CIRC. KV 7636	320.000	449649.182	4476652.132	-130.000	650.719	224.043522	0.000	1.582	-7.00	-7.00	650.719	650.585	650.585
CLOT. KV 7636	329.120	449646.119	4476643.544	-130.000	650.868	219.577248	0.000	1.702	-7.00	-7.00	650.868	650.724	650.724
CLOT. Rampa	340.000	449643.234	4476633.056	-161.643	651.060	214.770863	0.000	1.791	-5.63	-5.63	651.060	650.944	650.944
CLOT. Rampa	360.000	449639.667	4476613.384	-292.543	651.418	208.656280	0.000	1.791	-3.11	-3.11	651.418	651.313	651.313
CLOT. Rampa	380.000	449637.452	4476593.509	-1538.147	651.777	206.066235	0.000	1.791	-0.59	-0.59	651.777	651.598	651.598
RECTA Rampa	384.697	449637.009	4476588.833	0.000	651.861	205.969030	0.000	1.791	-0.00	-0.00	651.861	651.688	651.688
RECTA Rampa	400.000	449635.577	4476573.597	0.000	652.135	205.969030	0.000	1.791	1.93	1.93	652.135	651.982	651.982
RECTA Rampa	420.000	449633.704	4476553.685	0.000	652.493	205.969030	0.000	1.791	2.00	2.00	652.493	652.363	652.363
RECTA Rampa	440.000	449631.832	4476533.773	0.000	652.851	205.969030	0.000	1.791	2.00	2.00	652.851	652.742	652.742
RECTA Rampa	460.000	449629.959	4476513.861	0.000	653.209	205.969030	0.000	1.791	2.00	2.00	653.209	653.115	653.115
RECTA Rampa	480.000	449628.087	4476493.948	0.000	653.567	205.969030	0.000	1.791	2.00	2.00	653.567	653.489	653.489
RECTA KV 5000	500.000	449626.214	4476474.036	0.000	653.951	205.969030	0.000	2.108	2.00	2.00	653.951	653.955	653.955
RECTA KV 5000	520.000	449624.342	4476454.124	0.000	654.412	205.969030	0.000	2.508	2.00	2.00	654.412	654.325	654.325
RECTA KV 5000	540.000	449622.469	4476434.212	0.000	654.954	205.969030	0.000	2.908	2.00	2.00	654.954	654.806	654.806
RECTA KV 5000	560.000	449620.597	4476414.300	0.000	655.576	205.969030	0.000	3.308	2.00	2.00	655.576	655.360	655.360
RECTA KV 5000	580.000	449618.724	4476394.388	0.000	656.277	205.969030	0.000	3.708	2.00	2.00	656.277	656.023	656.023
RECTA KV 5000	600.000	449616.852	4476374.475	0.000	657.059	205.969030	0.000	4.108	2.00	2.00	657.059	656.791	656.791
CLOT. KV 5000	600.963	449616.762	4476373.516	1000000.000	657.099	205.969030	0.000	4.127	2.00	2.00	657.099	656.830	656.830
CLOT. KV 5000	620.000	449614.962	4476354.565	3415.782	657.920	206.146428	0.000	4.508	2.00	2.00	657.920	657.668	657.668
CLOT. Rampa	640.000	449612.955	4476334.666	1665.743	658.840	206.714988	0.000	4.612	2.00	2.00	658.840	658.555	658.555
CLOT. Rampa	660.000	449610.710	4476314.793	1101.435	659.763	207.675163	0.000	4.612	2.00	2.00	659.763	659.519	659.519
CLOT. Rampa	680.000	449608.104	4476294.963	822.720	660.685	209.026953	0.000	4.612	2.00	2.00	660.685	660.495	660.495
CIRC. KV -7607	693.856	449606.024	4476281.264	700.000	661.313	210.193132	0.000	4.439	2.00	2.00	661.313	661.147	661.147
CIRC. KV -7607	700.000	449605.018	4476275.204	700.000	661.583	210.751882	0.000	4.358	2.00	2.00	661.583	661.434	661.434
CIRC. KV -7607	720.000	449601.375	4476255.539	700.000	662.428	212.570795	0.000	4.095	2.00	2.00	662.428	662.321	662.321
CIRC. KV -7607	740.000	449597.171	4476235.986	700.000	663.221	214.389709	0.000	3.832	2.00	2.00	663.221	663.126	663.126
CIRC. KV -7607	760.000	449592.411	4476216.562	700.000	663.961	216.208623	0.000	3.569	2.00	2.00	663.961	663.867	663.867
CIRC. KV -7607	780.000	449587.098	4476197.281	700.000	664.648	218.027536	0.000	3.306	2.00	2.00	664.648	664.567	664.567
CIRC. KV -7607	800.000	449581.237	4476178.160	700.000	665.283	219.846450	0.000	3.043	2.00	2.00	665.283	665.163	665.163
CIRC. KV -7607	820.000	449574.831	4476159.214	700.000	665.866	221.665364	0.000	2.780	2.00	2.00	665.866	665.802	665.802
CLOT. KV -7607	824.494	449573.317	4476154.983	700.000	665.989	222.074051	0.000	2.721	2.00	2.00	665.989	665.934	665.934
CLOT. KV -7607	840.000	449567.896	4476140.456	840.262	666.395	223.366575	0.000	2.517	2.00	2.00	666.395	666.360	666.360
CLOT. KV -7607	860.000	449560.516	4476121.867	1133.104	666.873	224.686057	0.000	2.254	2.00	2.00	666.873	666.833	666.833
CLOT. KV -7607	880.000	449552.810	4476103.412	1739.259	667.297	225.613924	0.000	1.991	2.00	2.00	667.297	667.273	667.273
CLOT. KV -7607	900.000	449544.891	4476085.046	3739.946	667.669	226.150175	0.000	1.729	2.00	2.00	667.669	667.637	667.637
RECTA Rampa	917.387	449537.924	4476069.117	0.000	667.968	226.298154	0.000	1.720	2.00	2.00	667.968	667.915	667.915
RECTA Rampa	920.000	449536.875	4476066.723	0.000	668.013	226.298154	0.000	1.720	2.00	2.00	668.013	667.954	667.954
RECTA Rampa	927.139	449534.009	4476060.185	0.000	668.136	226.298154	0.000	1.720	2.00	2.00	668.136	668.042	668.042

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PROYECTO : PROYECTO ORDENACIÓN Y MEJORA DE ACCESOS VIALES AL ESTADIO WANDA METROPOLITANO
 EJE : 19: EJE 19. ENLACE 2. RAMAL 3

 * * * PUNTOS DEL EJE EN PLANTA * * *

TIPO	P.K.	X	Y	RADIO	COTA	AZIMUT	DIST. EJE	Pend (%)	PERAL_I	PERAL_D	Z PROJ.	ZT (eje)	Z TERR.
CIRC. Rampa	0.000	449801.926	4477028.930	-2500.000	641.370	222.158154	0.000	0.730	2.00	2.00	641.370	641.341	641.341
CIRC. Rampa	20.000	449795.179	4477010.102	-2500.000	641.516	221.648858	0.000	0.730	2.00	2.00	641.516	641.477	641.477
CIRC. Rampa	40.000	449788.584	4476991.221	-2500.000	641.662	221.139562	0.000	0.730	2.00	2.00	641.662	641.630	641.630
CIRC. Rampa	60.000	449782.140	4476972.288	-2500.000	641.808	220.630266	0.000	0.730	2.00	2.00	641.808	641.800	641.800
CIRC. KV -7125	80.000	449775.848	4476953.303	-2500.000	641.935	220.120970	0.000	0.502	2.00	2.00	641.935	641.825	641.825
CIRC. Rampa	100.000	449769.707	4476934.269	-2500.000	642.010	219.611675	0.000	0.300	2.00	2.00	642.010	641.874	641.874
CLOT. Rampa	114.216	449765.435	4476920.711	1000000.000	642.053	219.249679	0.000	0.300	2.00	2.00	642.053	641.873	641.873
CLOT. Rampa	120.000	449763.712	4476915.189	4996.148	642.070	219.286532	0.000	0.300	2.16	2.16	642.070	641.873	641.873
CLOT. KV 2288	140.000	449757.663	4476896.126	1120.830	642.132	219.981944	0.000	0.436	2.71	2.71	642.132	642.056	642.056
CLOT. KV 2288	160.000	449751.275	4476877.174	631.219	642.307	221.558490	0.000	1.310	3.27	3.27	642.307	642.252	642.252
CLOT. KV 2288	180.000	449744.290	4476858.435	439.314	642.656	224.016171	0.000	2.184	3.82	3.82	642.656	642.599	642.599
CIRC. KV 2288	186.466	449741.863	4476852.442	400.000	642.806	224.999151	0.000	2.466	4.00	4.00	642.806	642.730	642.730
CIRC. KV 2288	200.000	449736.473	4476840.028	400.000	643.180	227.153227	0.000	3.058	4.00	4.00	643.180	643.106	643.106
CIRC. KV 2288	220.000	449727.747	4476822.034	400.000	643.879	230.336326	0.000	3.932	4.00	4.00	643.879	643.790	643.790
CLOT. KV 2288	223.822	449725.978	4476818.646	400.000	644.032	230.944597	0.000	4.099	4.00	4.00	644.032	643.959	643.959
CLOT. KV 2288	240.000	449718.154	4476804.487	515.410	644.753	233.231149	0.000	4.805	3.37	3.37	644.753	644.716	644.716
CLOT. Rampa	260.000	449707.888	4476787.324	801.178	645.797	235.260925	0.000	5.492	2.58	2.58	645.797	645.796	645.796
CLOT. KV -3200	280.000	449697.195	4476770.422	1798.172	646.895	236.409567	0.000	5.420	1.52	1.52	646.895	646.750	646.750
CLOT. KV -3200	296.072	449688.456	4476756.934	-1000000.000	647.725	236.694069	0.000	4.918	0.00	0.00	647.725	647.651	647.651
CLOT. KV -3200	300.000	449686.316	4476753.640	-3193.386	647.916	236.654914	0.000	4.795	-0.36	-0.36	647.916	647.859	647.859
CLOT. KV -3200	320.000	449675.569	4476736.774	-524.237	648.813	235.241184	0.000	4.170	-2.19	-2.19	648.813	648.824	648.824
CLOT. KV -3200	340.000	449665.474	4476719.511	-285.557	649.584	231.797417	0.000	3.545	-4.03	-4.03	649.584	649.473	649.473
CIRC. KV -3200	350.611	449660.580	4476710.097	-230.000	649.943	229.146093	0.000	3.214	-5.00	-5.00	649.943	649.804	649.804
CIRC. KV -3200	360.000	449656.603	4476701.593	-230.000	650.231	226.547304	0.000	2.920	-5.00	-5.00	650.231	650.117	650.117
CIRC. KV -3200	380.000	449649.307	4476682.978	-230.000	650.753	221.011480	0.000	2.295	-5.60	-5.60	650.753	650.609	650.609
CIRC. KV -3200	400.000	449643.656	4476663.799	-230.000	651.149	215.475656	0.000	1.670	-6.59	-6.59	651.149	650.930	650.930
CLOT. Rampa	407.076	449642.058	4476656.906	-230.000	651.262	213.517005	0.000	1.580	-6.94	-6.94	651.262	650.965	650.965
CLOT. Rampa	420.000	449639.663	4476644.208	-301.427	651.466	210.363660	0.000	1.580	-7.00	-7.00	651.466	650.935	650.935
CLOT. Rampa	440.000	449636.973	4476624.392	-580.327	651.782	207.154637	0.000	1.580	-7.00	-7.00	651.782	651.001	651.001
CLOT. Rampa	460.000	449634.967	4476604.493	-7765.240	652.098	205.975651	0.000	1.580	-7.00	-7.00	652.098	651.305	651.305
RECTA Rampa	461.615	449634.815	4476602.884	0.000	652.124	205.969030	0.000	1.580	-7.00	-7.00	652.124	651.341	651.341
RECTA Rampa	475.400	449633.525	4476589.160	0.000	652.342	205.969030	0.000	1.580	-7.00	-7.00	652.342	651.628	651.628

PROYECTO : PROYECTO ORDENACIÓN Y MEJORA DE ACCESOS VIALES AL ESTADIO WANDA METROPOLITANO
 EJE : 20: EJE 20. ENLACE 2. RAMAL 4

 * * * PUNTOS DEL EJE EN PLANTA * * *

TIPO	P.K.	X	Y	RADIO	COTA	AZIMUT	DIST. EJE	Pend (%)	PERAL_I	PERAL_D	Z PROJ.	ZT (eje)	Z TERR.
CIRC. Rampa	0.000	449747.569	4476899.039	1095.341	640.251	220.001930	0.000	3.859	4.00	4.00	640.251	641.694	641.694
CLOT. Rampa	0.000	449747.569	4476899.039	1095.341	640.251	220.001930	0.000	3.859	4.00	4.00	640.251	641.694	641.694
CLOT. Rampa	20.000	449741.089	4476880.119	343.294	641.023	222.437583	0.000	3.859	4.00	4.00	641.023	641.811	641.811
CLOT. Rampa	40.000	449733.519	4476861.612	203.543	641.794	227.419715	0.000	3.859	4.00	4.00	641.794	641.995	641.995
CLOT. Rampa	60.000	449724.174	4476843.943	144.656	642.566	234.948327	0.000	3.859	4.00	4.00	642.566	642.385	642.385
CIRC. Rampa	67.793	449719.924	4476837.412	130.000	642.867	238.571525	0.000	3.859	4.00	4.00	642.867	641.273	641.273
CLOT. Rampa	73.849	449716.360	4476832.516	130.000	643.101	241.537071	0.000	3.859	4.00	4.00	643.101	641.950	641.950
CLOT. KV 6000	80.000	449712.516	4476827.715	146.178	643.338	244.382466	0.000	3.866	4.00	4.00	643.338	641.771	641.771
CLOT. KV 6000	100.000	449698.797	4476813.176	245.530	644.145	251.330419	0.000	4.199	2.70	2.70	644.145	640.008	640.008
CLOT. KV 6000	120.000	449683.936	4476799.795	766.483	645.018	254.753834	0.000	4.533	0.86	0.86	645.018	638.494	638.494
CLOT. KV 6000	129.426	449676.767	4476793.675	-1000000.000	645.453	255.145290	0.000	4.690	-0.00	-0.00	645.453	637.935	637.935
CLOT. KV 6000	140.000	449668.728	4476786.806	-683.291	645.958	254.652710	0.000	4.866	-1.33	-1.33	645.958	637.660	637.660
CLOT. Rampa	160.000	449653.910	4476773.378	-236.313	646.937	251.027047	0.000	4.900	-3.85	-3.85	646.937	637.398	637.398
CLOT. KV -15000	180.000	449640.284	4476758.752	-142.860	647.914	243.876846	0.000	4.836	-6.37	-6.37	647.914	641.836	641.836
CIRC. KV -15000	185.003	449637.173	4476754.834	-130.000	648.155	241.537071	0.000	4.803	-7.00	-7.00	648.156	642.671	642.671
CIRC. KV -15000	200.000	449628.775	4476742.420	-130.000	648.868	234.192974	0.000	4.703	-7.00	-7.00	648.868	651.795	651.795
CIRC. KV -15000	220.000	449619.901	4476724.518	-130.000	649.796	224.398824	0.000	4.570	-4.02	-4.02	649.796	650.317	650.317
CIRC. Rampa	240.000	449613.876	4476705.468	-130.000	650.699	214.604673	0.000	4.500	1.94	1.94	650.699	646.051	646.051
CLOT. Rampa	240.160	449613.840	4476705.312	-130.000	650.706	214.526536	0.000	4.500	1.98	1.98	650.706	646.018	646.018
CLOT. Rampa	260.000	449610.662	4476685.741	-202.174	651.599	206.544786	0.000	4.500	2.03	2.03	651.599	646.755	646.755
CLOT. Rampa	280.000	449609.412	4476665.785	-459.124	652.499	202.009325	0.000	4.500	2.03	2.03	652.499	647.543	647.543
CIRC. Rampa	295.736	449609.095	4476650.051	3000.000	653.207	200.918318	0.000	4.500	2.03	2.03	653.207	648.080	648.080
CLOT. Rampa	295.736	449609.095	4476650.052	-1000000.000	653.207	200.918318	0.000	4.500	2.03	2.03	653.207	648.080	648.080

ANEJO Nº 19. REPLANTEO

PROYECTO : PROYECTO ORDENACIÓN Y MEJORA DE ACCESOS VIALES AL ESTADIO WANDA METROPOLITANO
 EJE : 21: EJE 21. ENLACE 2. RAMAL 5

 * * * PUNTOS DEL EJE EN PLANTA * * *

TIPO	P.K.	X	Y	RADIO	COTA	AZIMUT	DIST. EJE	Pend (%)	PERAL_I	PERAL_D	Z PROY.	ZT (eje)	Z TERR.
RECTA Rampa	0.000	449760.747	4476940.730	0.000	641.698	219.698907	0.000	0.300	2.62	2.62	641.698	641.600	641.600
CLOT. Rampa	13.562	449756.617	4476927.812	1000000.000	641.739	219.698907	0.000	0.300	2.62	2.62	641.739	641.686	641.686
CLOT. Rampa	20.000	449754.639	4476921.686	388.338	641.758	220.226587	0.000	0.300	2.62	2.62	641.758	641.703	641.703
CLOT. KV -1686	40.000	449747.410	4476903.054	94.562	641.818	228.598236	0.000	0.240	2.62	2.62	641.818	641.629	641.629
CIRC. KV -1686	55.935	449739.092	4476889.499	59.000	641.781	242.559427	0.000	-0.705	7.00	7.00	641.781	641.390	641.390
CIRC. KV -1686	60.000	449736.465	4476886.399	59.000	641.747	246.945428	0.000	-0.946	7.00	7.00	641.747	641.309	641.309
CIRC. KV -1686	80.000	449720.788	4476874.134	59.000	641.439	268.525759	0.000	-2.132	7.00	7.00	641.439	641.006	641.006
CIRC. KV -1686	100.000	449701.925	4476867.780	59.000	640.894	290.106091	0.000	-3.319	7.00	7.00	640.894	640.560	640.560
CIRC. Pendiente	120.000	449682.023	4476868.060	59.000	640.215	311.686422	0.000	-3.400	7.00	7.00	640.215	640.088	640.088
CIRC. Pendiente	140.000	449663.346	4476874.943	59.000	639.535	333.266753	0.000	-3.400	7.00	7.00	639.535	639.469	639.469
CIRC. Pendiente	160.000	449648.021	4476887.644	59.000	638.855	354.847084	0.000	-3.400	7.00	7.00	638.855	638.795	638.795
CIRC. Pendiente	180.000	449637.791	4476904.719	59.000	638.175	376.427416	0.000	-3.400	7.00	7.00	638.175	638.129	638.129
CIRC. Pendiente	191.565	449634.686	4476915.840	59.000	637.781	388.906242	0.000	-3.400	7.00	7.00	637.781	637.722	637.722

19.2.2. ACTUACIÓN 2

Istram 11.24.12.24
 PROYECTO : PROYECTO ORDENACIÓN Y MEJORA DE ACCESOS VIALES AL ESTADIO WANDA METROPOLITANO
 EJE : 8: AMPLIACIÓN DE LA M-21

 * * * PUNTOS DEL EJE EN PLANTA * * *

TIPO	P.K.	X	Y	RADIO	COTA	AZIMUT	DIST. EJE	Pend (%)	PERAL_I	PERAL_D	Z PROJ.	ZT (eje)	Z TERR.
CIRC. Pendiente	0.000	449664.625	4476975.863	60.000	635.263	71.615527	0.000	-2.000	6.00	6.00	635.263	635.265	635.265
CLOT. Pendiente	9.718	449673.694	4476979.327	60.000	635.069	81.926467	0.000	-2.000	6.00	6.00	635.069	634.994	634.994
CLOT. Pendiente	20.000	449683.753	4476981.403	73.660	634.863	91.824573	0.000	-2.000	5.24	5.24	634.863	634.730	634.730
CLOT. Pendiente	40.000	449703.714	4476981.656	132.210	634.463	105.282419	0.000	-2.000	3.76	3.76	634.463	634.359	634.359
CLOT. Pendiente	60.000	449723.516	4476978.894	644.476	634.063	111.085448	0.000	-2.000	2.28	2.28	634.063	634.005	634.005
RECTA Pendiente	65.162	449728.597	4476977.987	0.000	633.960	111.340390	0.000	-2.000	2.00	2.00	633.960	633.912	633.912
CLOT. Pendiente	65.162	449728.597	4476977.987	1000000.000	633.960	111.340390	0.000	-2.000	2.00	2.00	633.960	633.912	633.912
CLOT. KV 1160	80.000	449743.195	4476975.327	1192.898	633.673	111.736319	0.000	-1.598	2.73	2.73	633.673	633.704	633.704
CLOT. KV 1160	100.000	449762.809	4476971.422	508.069	633.526	113.523013	0.000	0.126	4.62	4.62	633.526	633.498	633.498
CLOT. KV 1160	120.000	449782.253	4476966.749	322.770	633.723	116.748396	0.000	1.851	6.51	6.51	633.723	633.463	633.463
CIRC. KV 1160	125.162	449787.227	4476965.366	295.000	633.830	117.814489	0.000	2.296	7.00	7.00	633.830	633.452	633.452
CIRC. KV 1160	140.000	449801.378	4476960.911	295.000	634.266	121.016539	0.000	3.575	7.00	7.00	634.266	633.329	633.329
CLOT. KV 1160	158.602	449818.774	4476954.330	295.000	635.080	125.030967	0.000	5.178	7.00	7.00	635.080	633.250	633.250
CLOT. KV 1160	160.000	449820.064	4476953.791	302.036	635.153	125.329092	0.000	5.299	6.84	6.84	635.153	633.243	633.243
CLOT. KV 1160	180.000	449838.264	4476945.506	458.522	636.385	128.825268	0.000	7.023	4.50	4.50	636.385	633.079	633.079
CLOT. Rampa	200.000	449856.087	4476936.434	951.498	637.930	130.882755	0.000	8.000	2.17	2.17	637.930	633.527	633.527
RECTA Rampa	218.602	449872.487	4476927.652	0.000	639.418	131.505066	0.000	8.000	2.00	2.00	639.418	633.797	633.797
RECTA Rampa	220.000	449873.717	4476926.988	0.000	639.530	131.505066	0.000	8.000	2.00	2.00	639.530	633.817	633.817
RECTA Rampa	240.000	449891.317	4476917.490	0.000	641.130	131.505066	0.000	8.000	2.00	2.00	641.130	634.340	634.340
RECTA Rampa	260.000	449908.918	4476907.991	0.000	642.730	131.505066	0.000	8.000	2.00	2.00	642.730	635.770	635.770
RECTA KV -450	280.000	449926.518	4476898.493	0.000	644.234	131.505066	0.000	5.933	2.00	2.00	644.234	637.160	637.160
RECTA KV -450	300.000	449944.119	4476888.994	0.000	644.976	131.505066	0.000	1.488	2.00	2.00	644.976	639.579	639.579
RECTA KV -450	320.000	449961.719	4476879.496	0.000	644.829	131.505066	0.000	-2.956	2.00	2.00	644.829	643.403	643.403
RECTA Pendiente	340.000	449979.320	4476869.997	0.000	643.797	131.505066	0.000	-7.000	2.00	2.00	643.797	643.102	643.102
RECTA Pendiente	360.000	449996.920	4476860.499	0.000	642.397	131.505066	0.000	-7.000	2.00	2.00	642.397	641.926	641.926
RECTA KV 1160	380.000	450014.521	4476851.000	0.000	641.084	131.505066	0.000	-5.775	2.00	2.00	641.084	641.496	641.496
RECTA KV 1160	400.000	450032.121	4476841.502	0.000	640.102	131.505066	0.000	-4.051	1.41	1.41	640.102	641.024	641.024
RECTA KV 1160	420.000	450049.722	4476832.003	0.000	639.464	131.505066	0.000	-2.327	0.22	0.22	639.464	640.874	640.874
CLOT. KV 1160	423.771	450053.040	4476830.212	-1000000.000	639.382	131.505066	0.000	-2.002	-0.00	-0.00	639.382	640.777	640.777
CLOT. KV 1160	440.000	450067.328	4476822.515	-3851.067	639.171	131.370923	0.000	-0.603	-0.97	-0.97	639.171	640.137	640.137
CLOT. Rampa	460.000	450084.983	4476813.118	-1725.125	639.215	130.836585	0.000	0.750	-2.16	-2.16	639.215	638.953	638.953
CLOT. Rampa	480.000	450102.745	4476803.927	-1111.521	639.365	129.894810	0.000	0.750	-3.35	-3.35	639.365	640.300	640.300
CLOT. Rampa	500.000	450120.670	4476795.056	-819.895	639.515	128.545599	0.000	0.750	-4.54	-4.54	639.515	640.840	640.840
CIRC. Rampa	515.682	450134.871	4476788.403	-680.000	639.632	127.202651	0.000	0.750	-5.47	-5.47	639.632	640.869	640.869
CIRC. Rampa	520.000	450138.806	4476786.626	-680.000	639.665	126.798444	0.000	0.750	-5.47	-5.47	639.665	640.877	640.877
CIRC. Rampa	540.000	450157.177	4476778.723	-680.000	639.815	124.926033	0.000	0.750	-5.47	-5.47	639.815	639.871	639.871
CIRC. KV -2954	560.000	450175.773	4476771.364	-680.000	639.907	123.053622	0.000	0.124	-5.47	-5.47	639.907	640.204	640.204
CIRC. KV -2954	580.000	450194.578	4476764.554	-680.000	639.864	121.181211	0.000	-0.553	-5.47	-5.47	639.864	640.000	640.000
CIRC. KV -2954	600.000	450213.574	4476758.301	-680.000	639.686	119.308800	0.000	-1.230	-5.47	-5.47	639.686	639.661	639.661
CIRC. KV -2954	620.000	450232.747	4476752.609	-680.000	639.372	117.436389	0.000	-1.907	-5.47	-5.47	639.372	639.165	639.165
CIRC. Pendiente	640.000	450252.078	4476747.484	-680.000	638.945	115.563978	0.000	-2.200	-5.47	-5.47	638.945	638.890	638.890
CIRC. Pendiente	660.000	450271.551	4476742.929	-680.000	638.524	113.691567	0.000	-2.003	-5.47	-5.47	638.524	638.524	638.524
CIRC. Tg. Entrada	680.000	450291.151	4476738.948	-680.000	638.124	111.819155	0.000	-2.003	-5.47	-5.47	638.124	638.124	638.124
CIRC. Tg. Entrada	700.000	450310.858	4476735.546	-680.000	637.634	109.946744	0.000	-2.449	-5.47	-5.47	637.634	637.634	637.634
CIRC. Pendiente	720.000	450330.658	4476732.725	-680.000	637.126	108.074333	0.000	-2.503	-5.47	-5.47	637.126	637.126	637.126
CIRC. Pendiente	740.000	450350.531	4476730.487	-680.000	636.625	106.201922	0.000	-2.503	-5.47	-5.47	636.625	636.625	636.625
CIRC. Tg. Entrada	760.000	450370.462	4476728.835	-680.000	636.126	104.329511	0.000	-2.494	-5.47	-5.47	636.126	636.126	636.126
CIRC. Tg. Entrada	780.000	450390.433	4476727.769	-680.000	635.586	102.457100	0.000	-2.704	-5.47	-5.47	635.586	635.586	635.586
CIRC. Tg. Entrada	800.000	450410.427	4476727.292	-680.000	635.244	100.584689	0.000	-1.709	-5.47	-5.47	635.244	635.244	635.244
CIRC. Tg. Entrada	820.000	450430.426	4476727.402	-680.000	634.997	98.712278	0.000	-1.233	-5.47	-5.47	634.997	634.997	634.997

ANEJO Nº 19. REPLANTEO

Istram 11.24.12.24
 PROYECTO : PROYECTO ORDENACIÓN Y MEJORA DE ACCESOS VIALES AL ESTADIO WANDA METROPOLITANO
 EJE : 8: AMPLIACIÓN DE LA M-21

 * * * PUNTOS DEL EJE EN PLANTA * * *

TIPO	P.K.	X	Y	RADIO	COTA	AZIMUT	DIST. EJE	Pend (%)	PERAL_I	PERAL_D	Z PROJ.	ZT (eje)	Z TERR.
CIRC. Tg. Entrada	840.000	450450.413	4476728.100	-680.000	634.946	96.839867	0.000	-0.254	-5.47	-5.47	634.946	634.946	634.946
CIRC. Tg. Entrada	860.000	450470.371	4476729.386	-680.000	634.977	94.967456	0.000	0.151	-5.47	-5.47	634.977	634.977	634.977
CIRC. Tg. Entrada	880.000	450490.282	4476731.259	-680.000	635.050	93.095045	0.000	0.370	-5.47	-5.47	635.050	635.050	635.050
CIRC. Tg. Entrada	900.000	450510.130	4476733.716	-680.000	635.312	91.222633	0.000	1.307	-5.47	-5.47	635.312	635.312	635.312
CIRC. Tg. Entrada	920.000	450529.897	4476736.755	-680.000	635.652	89.350222	0.000	1.702	-5.47	-5.47	635.652	635.652	635.652
CIRC. Tg. Entrada	940.000	450549.566	4476740.375	-680.000	636.137	87.477811	0.000	2.424	-5.47	-5.47	636.137	636.137	636.137
CIRC. Tg. Entrada	960.000	450569.120	4476744.572	-680.000	636.592	85.605400	0.000	2.273	-5.47	-5.47	636.592	636.592	636.592
CIRC. Tg. Entrada	980.000	450588.542	4476749.341	-680.000	637.021	83.732989	0.000	2.148	-5.47	-5.47	637.021	637.021	637.021
CLOT. Rampa	984.616	450593.004	4476750.523	-680.000	637.113	83.300810	0.000	1.980	-5.47	-5.47	637.113	637.113	637.113
CLOT. Tg. Entrada	1000.000	450607.819	4476754.669	-843.556	637.417	82.000201	0.000	1.980	-4.41	-4.41	637.417	637.417	637.417
CLOT. Tg. Entrada	1020.000	450626.964	4476760.453	-1227.347	637.786	80.726819	0.000	1.845	-3.03	-3.03	637.786	637.786	637.786
CLOT. Tg. Entrada	1040.000	450646.013	4476766.547	-2251.881	638.215	79.925418	0.000	2.143	-1.65	-1.65	638.215	638.215	638.215
CLOT. Tg. Entrada	1060.000	450665.006	4476772.811	-13627.454	638.565	79.595996	0.000	1.751	-0.27	-0.27	638.565	638.565	638.565
CLOT. Rampa	1063.959	450668.764	4476774.058	1000000.000	638.630	79.586748	0.000	1.642	0.00	0.00	638.630	638.630	638.630
CLOT. Tg. Entrada	1080.000	450683.991	4476779.101	3099.787	638.893	79.751468	0.000	1.642	1.17	1.17	638.893	638.893	638.893
CLOT. Tg. Entrada	1100.000	450703.017	4476785.269	1379.635	639.304	80.418284	0.000	2.055	2.64	2.64	639.304	639.304	639.304
CLOT. Tg. Entrada	1120.000	450722.129	4476791.160	887.267	639.676	81.597231	0.000	1.857	4.10	4.10	639.676	639.676	639.676
CLOT. Tg. Entrada	1140.000	450741.369	4476796.619	653.901	640.036	83.288308	0.000	1.801	5.57	5.57	640.036	640.036	640.036
CIRC. Rampa	1142.337	450743.627	4476797.221	634.403	640.089	83.519342	0.000	2.268	5.74	5.74	640.089	640.089	640.089
CIRC. Tg. Entrada	1160.000	450760.762	4476801.505	634.403	640.490	85.291800	0.000	2.268	5.74	5.74	640.490	640.490	640.490
CIRC. Tg. Entrada	1180.000	450780.300	4476805.777	634.403	640.958	87.298789	0.000	2.341	5.74	5.74	640.958	640.958	640.958
CIRC. Tg. Entrada	1200.000	450799.962	4476809.431	634.403	641.421	89.305778	0.000	2.314	5.74	5.74	641.421	641.421	641.421
CIRC. Rampa	1215.917	450815.687	4476811.895	634.403	641.765	90.903040	0.000	2.160	5.74	5.74	641.765	641.765	641.765

Istram 11.24.12.24 15/02/19
 PROYECTO : PROYECTO ORDENACIÓN Y MEJORA DE ACCESOS VIALES AL ESTADIO WANDA METROPOLITANO
 EJE : 10: RAMAL INCORPORACIÓN M-21

 * * * PUNTOS DEL EJE EN PLANTA * * *

TIPO	P.K.	X	Y	RADIO	COTA	AZIMUT	DIST. EJE	Pend (%)	PERAL_I	PERAL_D	Z PROJ.	ZT (eje)	Z TERR.
RECTA Rampa	0.000	450003.328	4476744.383	0.000	641.700	83.191097	0.000	0.300	2.00	2.00	641.700	641.700	641.700
RECTA Rampa	20.000	450022.635	4476749.602	0.000	641.760	83.191097	0.000	0.300	2.00	2.00	641.760	641.605	641.605
CLOT. Rampa	33.528	450035.695	4476753.133	1000000.000	641.801	83.191097	0.000	0.300	2.00	2.00	641.801	641.593	641.593
CLOT. Rampa	40.000	450041.943	4476754.818	2043.427	641.820	83.291913	0.000	0.300	2.54	2.54	641.820	641.588	641.588
CLOT. R -4546	60.000	450061.308	4476759.815	499.585	641.860	84.877755	0.000	0.002	4.20	4.20	641.860	641.561	641.561
CLOT. R -4546	80.000	450080.856	4476764.032	284.580	641.816	88.389102	0.000	-0.438	5.87	5.87	641.816	641.587	641.587
CIRC. R -4546	93.642	450094.330	4476766.152	220.000	641.736	91.888718	0.000	-0.738	7.00	7.00	641.736	641.625	641.625
CIRC. R -4546	100.000	450100.648	4476766.869	220.000	641.685	93.728646	0.000	-0.878	7.00	7.00	641.685	641.643	641.643
CIRC. R -4546	120.000	450120.613	4476767.929	220.000	641.465	99.516098	0.000	-1.318	7.00	7.00	641.465	641.473	641.473
CIRC. R -4546	140.000	450140.592	4476767.173	220.000	641.158	105.303550	0.000	-1.758	7.00	7.00	641.158	641.163	641.163
CLOT. R -4546	145.866	450146.430	4476766.607	220.000	641.051	107.000996	0.000	-1.887	7.00	7.00	641.051	641.034	641.034
CLOT. Pendiente	160.000	450160.425	4476764.641	287.628	640.782	110.610177	0.000	-1.900	2.37	2.37	640.782	640.725	640.725
CLOT. Pendiente	180.000	450180.038	4476760.739	509.054	640.402	114.074119	0.000	-1.900	-4.18	-4.18	640.402	640.276	640.276
CLOT. Pendiente	200.000	450199.484	4476756.069	2211.691	640.022	115.612557	0.000	-1.900	-5.47	-5.47	640.022	639.831	639.831
CLOT. Pendiente	205.980	450205.284	4476754.612	-1000000.000	639.909	115.698616	0.000	-1.900	-5.47	-5.47	639.909	639.764	639.764
CLOT. Pendiente	220.000	450218.882	4476751.196	-4457.786	639.642	115.598503	0.000	-1.900	-5.47	-5.47	639.642	639.609	639.609
CLOT. Pendiente	240.000	450238.300	4476746.409	-1837.132	639.262	115.109163	0.000	-1.900	-5.47	-5.47	639.262	639.324	639.324
CLOT. Pendiente	260.000	450257.770	4476741.834	-1156.970	638.882	114.212387	0.000	-1.900	-5.47	-5.47	638.882	638.950	638.950
CLOT. Pendiente	280.000	450277.315	4476737.595	-844.362	638.502	112.908173	0.000	-1.900	-5.47	-5.47	638.502	638.451	638.451
CIRC. Pendiente	297.354	450294.351	4476734.289	-684.000	638.172	111.446374	0.000	-1.900	-5.47	-5.47	638.172	638.144	638.144
CIRC. Pendiente	297.354	450294.351	4476734.289	-684.000	638.172	111.446374	0.000	-1.900	-5.47	-5.47	638.172	638.144	638.144