Nº MICRO	COORDENADAS (m)		COTAS (m)			LONGITUDES (m)	
	COORD.X	COORD.Y	PLATAFORMA	CABEZA MICRO	FONDO MICRO	PERFORACIÓN	MICRO
m1	513500.09	4786354.80	52.31	52.28	48.20	4.11	4.08
m2	513499.68	4786354.36	52.38	52.33	48.20	4.18	4.13
m3	513499.27	4786353.93	52.45	52.39	48.20	4.25	4.19
m4	513498.85	4786353.49	52.53	52.44	48.20	4.33	4.24
m5	513498.44	4786353.06	52.60	52.49	48.20	4.40	4.29
m6	513498.03	4786352.62	52.66	52.54	48.20	4.46	4.34
m7	513497.61	4786352.19	52.74	52.59	48.20	4.54	4.39
m8	513497.20	4786351.75	52.80	52.64	48.20	4.60	4.44
m9	513496.79	4786351.32	52.88	52.70	48.20	4.68	4.50
m10	513496.37	4786350.88	52.95	52.75	48.20	4.75	4.55
m11	513495.96	4786350.45	53.03	52.80	48.20	4.83	4.60
m12	513495.55	4786350.01	53.10	52.85	48.20	4.90	4.65
m13	513495.13	4786349.58	53.17	52.90	48.20	4.97	4.70
m14	513494.72	4786349.14	53.24	52.96	48.20	5.04	4.76
m15	513494.31	4786348.71	53.31	53.01	48.20	5.11	4.81
m16	513493.89	4786348.27	53.38	53.06	48.20	5.18	4.86
m17	513493.48	4786347.84	53.46	53.13	48.20	5.26	4.93
m18	513493.07	4786347.40	53.53	53.19	48.20	5.33	4.99
m19	513492.65	4786346.97	53.60	53.26	48.20	5.40	5.06
m20	513492.24	4786346.53	53.67	53.32	48.20	5.47	5.12
m21	513491.83	4786346.10	53.74	53.39	48.20	5.54	5.19
m22	513491.41	4786345.66	53.82	53.46	48.20	5.62	5.26
m23	513491.00	4786345.23	53.88	53.52	48.20	5.68	5.32
m24	513490.59	4786344.79	53.96	53.59	48.20	5.76	5.39
m25	513490.10	4786344.47	54.03	53.65	48.20	5.83	5.45
m26	513489.52	4786344.33	54.11	53.72	48.20	5.91	5.52
m27	513488.94	4786344.18	54.20	53.78	48.20	6.00	5.58
m28	513488.36	4786344.03	54.27	53.85	48.20	6.07	5.65
m29	513487.78	4786343.88	54.35	53.91	48.20	6.15	5.71
m30	513487.20	4786343.73	54.43	53.98	48.20	6.23	5.78
m31	513486.62	4786343.58	54.52	54.04	48.20	6.32	5.84
m32	513486.04	4786343.43	54.59	54.11	48.20	6.39	5.91
m33	513485.45	4786343.28	54.67	54.17	48.20	6.47	5.97
m34	513484.87	4786343.13	54.75	54.24	48.20	6.55	6.04
m35	513484.29	4786342.98	54.83	54.30	48.20	6.63	6.10
m36	513483.71	4786342.83	54.89	54.37	48.20	6.69	6.17
m37	513483.13	4786342.68	54.99	54.43	48.20	6.79	6.23
m38	513482.55	4786342.53	55.06	54.50	48.20	6.86	6.30
m39	513481.97	4786342.39	55.16	54.57	48.20	6.96	6.37
m40	513481.39	4786342.24	55.22	54.63	48.20	7.02	6.43
m41	513480.81	4786342.09	55.30	54.70	48.20	7.10	6.50
m42	513480.22	4786341.94	55.38	54.76	48.20	7.18	6.56
m43	513479.64	4786341.79	55.46	54.83	48.20	7.26	6.63
m44	513479.06	4786341.64	55.56	54.89	48.20	7.36	6.69
m45	513478.48	4786341.49	55.62	54.96	48.20	7.42	6.76
m46	513477.90	4786341.34	55.71	55.02	48.20	7.51	6.82
m47	513477.32	4786341.19	55.77	55.09	48.20	7.57	6.89
m48	513476.74	4786341.04	55.85	55.15	48.20	7.65	6.95
m49	513476.16	4786340.89	55.93	55.22	48.20	7.73	7.02
m50	513475.57	4786340.74	56.00	55.28	48.20	7.80	7.08
m51	513474.99	4786340.60	56.08	55.35	48.20	7.88	7.15
m52	513474.41	4786340.52	56.17	55.44	48.20	7.97	7.24
m53	513473.81	4786340.55	56.26	55.56	48.20	8.06	7.36
m54	513473.21	4786340.58	56.36	55.69	48.20	8.16	7.49
m55	513472.61	4786340.60	56.43	55.81	48.20	8.23	7.61
m56	513472.01	4786340.63	56.52	55.93	48.20	8.32	7.73
m57	513471.41	4786340.66	56.61	56.06	48.20	8.41	7.86
m58	513470.81	4786340.69	56.71	56.18	48.20	8.51	7.98
m59	513470.21	4786340.72	56.80	56.31	48.20	8.60	8.11

Nº MICRO	COORDENADAS (m)		COTAS (m)			LONGITUDES (m)	
	COORD.X	COORD.Y	PLATAFORMA	CABEZA MICRO	FONDO MICRO	PERFORACIÓN	MICRO
m60	513469.61	4786340.75	56.89	56.43	48.20	8.69	8.23
m61	513469.01	4786340.77	56.96	56.55	48.20	8.76	8.35
m62	513468.41	4786340.80	57.06	56.68	48.20	8.86	8.48
m63	513467.81	4786340.83	57.15	56.80	48.20	8.95	8.60
m64	513467.32	4786341.05	57.27	56.92	48.20	9.07	8.72
m65	513466.97	4786341.54	57.38	57.05	48.20	9.18	8.85
m66	513466.62	4786342.03	57.53	57.17	48.20	9.33	8.97
m67	513466.27	4786342.51	57.55	57.29	48.20	9.35	9.09
m68	513465.92	4786343.00	57.79	57.42	48.20	9.59	9.22
m69	513465.57	4786343.49	57.92	57.54	48.20	9.72	9.34
m70	513465.22	4786343.98	58.06	57.67	48.20	9.86	9.47
m71	513464.88	4786344.47	58.19	57.79	48.20	9.99	9.59
m72	513464.53	4786344.96	58.32	57.91	48.20	10.12	9.71
m73	513464.18	4786345.44	58.46	58.04	48.20	10.26	9.84
m74	513463.83	4786345.93	58.59	58.16	48.20	10.39	9.96
m75	513463.82	4786346.37	58.70	58.28	48.20	10.50	10.08
m76	513464.30	4786346.73	58.81	58.41	48.20	10.61	10.21
m77	513464.78	4786347.10	58.83	58.53	48.20	10.63	10.33
m78	513465.25	4786347.46	58.84	58.66	48.20	10.64	10.46
m79	513465.73	4786347.83	58.85	58.78	48.20	10.65	10.58
m80	513466.20	4786348.19	58.89	58.90	48.20	10.69	10.70
m81	513466.68	4786348.56	58.91	59.03	48.20	10.71	10.83
m82	513467.16	4786348.92	58.92	59.15	48.20	10.72	10.95
m83	513467.63	4786349.29	58.94	59.23	48.20	10.74	11.03
m84	513468.11	4786349.65	58.98	59.26	48.20	10.78	11.06
m85	513468.59	4786350.02	59.00	59.30	48.20	10.80	11.10
m86	513469.06	4786350.38	59.02	59.33	48.20	10.82	11.13
m87	513469.54	4786350.75	59.14	59.36	48.20	10.94	11.16
m88	513470.01	4786351.11	59.40	59.40	48.20	11.20	11.20
m89	513470.49	4786351.48	59.48	59.43	48.20	11.28	11.23
m90	513470.97	4786351.84	59.48	59.47	48.20	11.28	11.27
m91	513471.44	4786352.21	59.47	59.50	48.20	11.27	11.30
m92	513471.92	4786352.57	59.47	59.53	48.20	11.27	11.33
m93	513472.40	4786352.94	59.47	59.57	48.20	11.27	11.37
m94	513472.87	4786353.30	59.46	59.60	48.20	11.26	11.40
m95	513473.35	4786353.67	59.43	59.63	48.20	11.23	11.43
m96	513473.82	4786354.03	59.34	59.67	48.20	11.14	11.47
m97	513474.30	4786354.40	59.33	59.70	48.20	11.13	11.50
m98	513474.78	4786354.76	59.31	59.74	48.20	11.11	11.54
m99	513475.25	4786355.13	59.27	59.77	48.20	11.07	11.57
m100	513475.73	4786355.49	59.22	59.80	48.20	11.02	11.60
m101	513476.21	4786355.86	59.14	59.84	48.20	10.94	11.64
m102	513476.68	4786356.22	59.06	59.87	48.20	10.86	11.67
m103	513477.16	4786356.59	58.98	59.91	48.20	10.78	11.71
m104	513477.63	4786356.95	58.90	59.94	48.20	10.70	11.74
m105	513478.11	4786357.32	58.83	59.97	48.20	10.63	11.77
m106	513478.50	4786357.75	58.86	60.01	48.20	10.66	11.81
m107	513478.77	4786358.29	59.07	60.04	48.20	10.87	11.84
m108	513479.03	4786358.83	59.27	60.07	48.20	11.07	11.87
m109	513479.30	4786359.37	59.39	60.11	48.20	11.19	11.91
m110	513479.57	4786359.90	59.43	60.14	48.20	11.23	11.94
m111	513479.83	4786360.44	59.46	60.18	48.20	11.26	11.98
m112	513480.10	4786360.98	59.49	60.21	48.20	11.29	12.01
m113	513480.37	4786361.52	59.52	60.24	48.20	11.32	12.04
m114	513480.64	4786362.05	59.57	60.28	48.20	11.37	12.08
m115	513480.90	4786362.59	59.64	60.31	48.20	11.44	12.11
m116	513481.17	4786363.13	59.71	60.34	48.20	11.51	12.14
m117	513481.44	4786363.66	59.78	60.38	48.20	11.58	12.18
m118	513481.70	4786364.20	59.83	60.41	48.20	11.63	12.21
m119	513481.97	4786364.74	59.85	60.45	48.20	11.65	12.25

Nº MICRO	COORDENADAS (m)		COTAS (m)			LONGITUDES (m)	
	COORD.X	COORD.Y	PLATAFORMA	CABEZA MICRO	FONDO MICRO	PERFORACIÓN	MICRO
m120	513482.24	4786365.28	59.91	60.48	48.20	11.71	12.28
m121	513482.51	4786365.81	59.97	60.51	48.20	11.77	12.31
m122	513482.77	4786366.35	60.05	60.55	48.20	11.85	12.35
m123	513483.04	4786366.89	60.12	60.58	48.20	11.92	12.38
m124	513483.31	4786367.43	60.19	60.61	48.20	11.99	12.41
m125	513483.57	4786367.96	60.26	60.65	48.20	12.06	12.45
m126	513483.84	4786368.50	60.33	60.68	48.20	12.13	12.48
m127	513484.11	4786369.04	60.39	60.72	48.20	12.19	12.52
m128	513484.37	4786369.57	60.46	60.75	48.20	12.26	12.55
m129	513484.64	4786370.11	60.53	60.78	48.20	12.33	12.58
m130	513484.91	4786370.65	60.58	60.82	48.20	12.38	12.62
m131	513485.18	4786371.19	60.62	60.85	48.20	12.42	12.65
m132	513485.44	4786371.72	60.67	60.89	48.20	12.47	12.69
m133	513485.71	4786372.26	60.71	60.93	51.45	9.26	9.48
m134	513485.98	4786372.80	60.76	60.97	56.46	4.30	4.51
m135	513486.24	4786373.34	60.81	61.01	57.03	3.78	3.98
m136	513486.51	4786373.87	60.85	61.05	57.45	3.40	3.60
m137	513486.78	4786374.41	60.90	61.09	57.77	3.13	3.32
m138	513487.05	4786374.95	60.94	61.12	58.00	2.94	3.12
m139	513487.31	4786375.48	60.98	61.16	58.15	2.83	3.01
m140	513487.58	4786376.02	61.02	61.20	58.24	2.78	2.96
m141	513487.85	4786376.56	61.06	61.24	58.28	2.78	2.96
m142	513488.12	4786377.10	61.09	61.28	58.24	2.85	3.04
m143	513488.38	4786377.63	61.13	61.32	58.15	2.98	3.17
m144	513488.65	4786378.17	61.16	61.36	58.00	3.16	3.36
m145	513488.92	4786378.71	61.20	61.40	57.77	3.43	3.63
m146	513489.18	4786379.24	61.23	61.44	57.45	3.78	3.99
m147	513489.45	4786379.78	61.27	61.48	57.03	4.24	4.45
m148	513489.72	4786380.32	61.30	61.52	56.46	4.84	5.06
m149	513489.99	4786380.86	61.34	61.56	51.45	9.89	10.11
m150	513490.25	4786381.39	61.38	61.60	48.20	13.18	13.40
m151	513490.52	4786381.93	61.42	61.64	48.20	13.22	13.44
m152	513490.79	4786382.47	61.45	61.68	48.20	13.25	13.48
m153	513491.06	4786383.00	61.50	61.72	48.20	13.30	13.52
m154	513491.32	4786383.54	61.51	61.75	48.20	13.31	13.55
m155	513491.59	4786384.08	61.53	61.79	48.20	13.33	13.59
m156	513491.86	4786384.62	61.55	61.80	48.20	13.35	13.60
m157	513492.13	4786385.15	61.58	61.80	48.20	13.38	13.60
m158	513492.39	4786385.69	61.60	61.80	48.20	13.40	13.60
m159	513492.66	4786386.23	61.62	61.80	48.20	13.42	13.60
m160	513492.93	4786386.76	61.62	61.80	48.20	13.42	13.60
m161	513493.33	4786387.06	61.50	61.80	48.20	13.30	13.60
m162	513493.93	4786387.01	61.19	61.80	48.20	12.99	13.60
m163	513494.53	4786386.96	60.87	61.52	48.20	12.67	13.32
m164	513495.13	4786386.91	60.56	61.15	48.20	12.36	12.95
m165	513495.72	4786386.86	60.24	60.78	48.20	12.04	12.58
m166	513496.32	4786386.81	59.93	60.40	48.20	11.73	12.20
m167	513496.92	4786386.76	59.61	60.03	48.20	11.41	11.83
m168	513497.52	4786386.71	59.26	59.66	48.20	11.06	11.46
m169	513498.12	4786386.66	58.96	59.29	48.20	10.76	11.09
m170	513498.71	4786386.61	58.66	58.92	48.20	10.46	10.72
m171	513499.31	4786386.56	58.36	58.55	48.20	10.16	10.35
m172	513499.91	4786386.52	58.06	58.18	48.20	9.86	9.98
m173	513500.51	4786386.47	57.75	57.81	48.20	9.55	9.61
m174	513501.11	4786386.42	57.46	57.44	48.20	9.26	9.24
m175	513501.70	4786386.37	56.77	57.07	48.20	8.57	8.87
m176	513502.30	4786386.32	56.16	56.70	48.20	7.96	8.50
m177	513502.90	4786386.27	55.89	56.33	48.20	7.69	8.13
m178	513503.50	4786386.22	55.62	55.96	48.20	7.42	7.76
m179	513504.10	4786386.17	55.35	55.59	48.20	7.15	7.39

OHARRAK :
NOTAS :

REV.	CLASE DE MODIFICACION	FECHA	NOMBRE	COMP.	OBRA
A	MODIFICADO Nº1	FEB.25	UTE	ETS	

BIRAZTERTZEAK
REVISIONES

KONTRATISTA ADOS
CONFORME EL CONTRATISTA

acciona · ALTUNA Y URIA · BYCAM · sacyr

AHOLKULARIA
CONSULTOR

sener

REFERENCIA CONSULTOR	REFERENCIA
10-02-09h03-MICROS	L5-AG-25-227-A

EUSKO JAURLARITZA GOBIERNO VASCO
LURRALDE PLANGINTZA, ETXEBIZITZA ETA GARRAIO SAILA
DEPARTAMENTO DE PLANIFICACIÓN TERRITORIAL, VIVIENDA Y TRANSPORTES

euskal trenbide sarea
PROIEKTUAREN IKUSKAPENA ETA ZUZENDARITZA
INSPECCION Y DIRECCION DEL PROYECTO

ESKALA ORIGINALA: ESCALA ORIGINAL
EN DIN A1

ESKALA GRAFIKOA ESCALA GRAFICA

PROJEKTUAREN IZENBURUA TITULO DEL PROYECTO
BILBOKO METROPOLI-TRENBIDEAREN 5. LINEAKO ERAIKUNTZA PROIEKTUA. APERRIBAI - GALDAKAO TARTEA
PROYECTO CONSTRUCTIVO DE LA LÍNEA 5 DEL FERROCARRIL METROPOLITANO DE BILBAO. TRAMO APERRIBAI - GALDAKAO

PLANOAREN IZENBURUA TITULO DEL PLANO
OBRAS SINGULARES
OS-10. SALIDA DE EMERGENCIA ABUSU
MICROS. DETALLES

PLANO ZK / N. PLANO
10.2.9
ORRIA / HOJA
3 SIGUE FIN

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