

ANEJO N°15

Trazado

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Página i

PROYECTO DE CONSTRUCCIÓN DE LA REPOSICION DE LA REGATA DE MORLANS



1. INTRODUCCIÓN

El objetivo del presente proyecto es la definición a nivel de proyecto de construcción de la reposición de la regata en el tramo comprendido entre las calles Morlans Ibilbidea y Pedro Manuel Collado, la sección proyectada es un cajón de 2,6x2,75 m y una tubería de fecales de Ø 500mm en paralelo en todo el trazado, a excepción de su paso bajo el topo que es necesario modificar la sección a 4,20x1,70 m.

La definición geométrica de la regata es la que se adjunta a continuación:

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Página 1

PROYECTO DE CONSTRUCCIÓN DE LA REPOSICION DE LA REGATA DE MORLANS



1.1 DEFINICION GEOMETRICA REGATA MORLANS

GRUPO : 10 : REPOSICIONES REGATA Y SANEAMIENTO

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PROYECTO :
GRUPO : 10 : Reposiciones regata y saneamiento
EJE : 86 : reposici3 de Morlans (AMARA-86-2023 (solo cajon).vol)

***** LISTADO DE LAS ALINEACIONES *****

| DATO | TIPO | LONGITUD | P.K. | X TANGENCIA | Y TANGENCIA | RADIO | PARAMETRO | AZIMUT | Cos/Xc/Xinf | Sen/Yc/Yinf | Latitud (N) | Longitud (E) |
|------|-------|----------|------|-------------|-------------|-------------|--------------|--------|-------------|-------------|-------------|--------------|
| 1 | RECTA | 17.734 | | 0.000 | 582531.210 | 4795542.808 | | | 310.3979 | -0.9866914 | 0.1626043 | |
| 2 | RECTA | 32.521 | | 17.734 | 582513.712 | 4795545.692 | a= 96-58'04" | | 202.6558 | -0.0417044 | -0.9991300 | |
| 3 | RECTA | 124.461 | | 50.255 | 582512.356 | 4795513.199 | a= 11-44'24" | | 189.6112 | 0.1624632 | -0.9867146 | |
| 4 | RECTA | 56.056 | | 174.716 | 582532.576 | 4795390.392 | a= 27-30'28" | | 220.1756 | -0.3116389 | -0.9502006 | |
| 5 | RECTA | 60.241 | | 230.772 | 582515.107 | 4795337.127 | a= 1-33'27" | | 221.9062 | -0.3373511 | -0.9413789 | |
| 6 | RECTA | 30.319 | | 291.013 | 582494.785 | 4795280.418 | a= 2-49'46" | | 218.7621 | -0.2904670 | -0.9568850 | |
| 7 | RECTA | 15.737 | | 321.331 | 582485.978 | 4795251.406 | a= 3-45'36" | | 214.5841 | -0.2270882 | -0.9738742 | |
| 8 | RECTA | 15.845 | | 337.068 | 582482.404 | 4795236.080 | a= 91-37'37" | | 112.7762 | 0.9799297 | -0.1993432 | |
| 9 | RECTA | 15.164 | | 352.913 | 582497.931 | 4795232.922 | a= 88-54'17" | | 13.9931 | 0.2180380 | 0.9759403 | |
| 10 | RECTA | 140.007 | | 368.077 | 582501.237 | 4795247.721 | a= 6-03'50" | | 20.7310 | 0.3199169 | 0.9474456 | |
| 11 | RECTA | 39.381 | | 508.084 | 582546.028 | 4795380.369 | a= 6-36'31" | | 28.0741 | 0.4268327 | 0.9043306 | |
| | | | | 547.465 | 582562.837 | 4795415.983 | | | 28.0741 | | | |

EJES EN PLANTA

```

#-----
#   Num Eje  P.K. inicial  N.Palabras Titulo del Eje
#-----
EJE      86          0.000000          3 reposici3 de Morlans
REV 2210
ALIAS4 N-634
GRUPO 10
TIPO L 401
CM      2
CAR     1
VD     80.000
MD      0
RV     23.02 143 (2023/02/01)
VU      0 80.000
NCE     1.000
ACE     3.500
    
```

#Anchos derecha derecha izquierda izquierda

```

#-----
# ANCHOS  1.300  1.700  1.300  1.700
#-----
    
```

| # | Tipo | clave | X (L ant) | Y (dL ant) | R | A1 | A2 | A | L | D | Az | Etiq | Peralte |
|---------------|------|---------------|----------------|------------|----------|----------|----------|----------|----------|----------|----------|------|-------------------------|
| ALI FIJA-2P+R | 0 | 582531.210000 | 4795542.808000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582513.712043 | 4795545.691620 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582512.355789 | 4795513.199257 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582526.108620 | 4795370.671880 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582521.527892 | 4795348.523533 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 2.200000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582493.428273 | 4795267.342739 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 2.500000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582487.333316 | 4795246.209536 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 2.500000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582485.470900 | 4795235.456500 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582495.996100 | 4795233.315400 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582496.151660 | 4795224.957097 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582501.237400 | 4795247.720900 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582544.100052 | 4795374.660204 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582540.621747 | 4795368.915530 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| | | 582562.837000 | 4795415.983000 | | | | | | | | | | |

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FIN

EJE : 86 : REPOSICIÓN DE MORLANS (AMARA-86-2023 (SOLO CAJON).VOL)

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Página 2

PROYECTO DE CONSTRUCCIÓN DE LA REPOSICION DE LA REGATA DE MORLANS



PROYECTO :
 GRUPO : 10 : Reposiciones regata y saneamiento
 EJE : 86 : reposición de Morlans (AMARA-86-2023 (solo cajon).vol)

***** ESTADO DE RASANTES *****

| PENDIENTE | LONGITUD | PARAMETRO | VÉRTICE | | ENTRADA AL ACUERDO | | SALIDA DEL ACUERDO | | BISECT. | DIF. PEN |
|-----------|----------|-----------|---------|-------|--------------------|-------|--------------------|-------|---------|----------|
| | | | PK | Z | PK | Z | PK | Z | | |
| | | | | | 0.000 | 2.740 | | | | |
| -0.115000 | 0.000 | 0.000 | 291.013 | 2.405 | 291.013 | 2.405 | 291.013 | 2.405 | 0.000 | |
| Vertical | 0.000 | 0.000 | 291.013 | 2.085 | 291.013 | 2.085 | 291.013 | 2.085 | 0.000 | |
| -0.115000 | | | | | | | 547.465 | 1.790 | | |

PROYECTO :
 GRUPO : 10 : Reposiciones regata y saneamiento
 EJE : 86 : reposición de Morlans (AMARA-86-2023 (solo cajon).vol)

***** PUNTOS DEL EJE EN ALZADO *****

| P.K. | TIPO | COTA | PENDIENTE |
|---------|-------------|-------|-----------|
| 0.000 | Pendiente | 2.740 | -0.1150 % |
| 20.000 | Pendiente | 2.717 | -0.1150 % |
| 40.000 | Pendiente | 2.694 | -0.1150 % |
| 60.000 | Pendiente | 2.671 | -0.1150 % |
| 80.000 | Pendiente | 2.648 | -0.1150 % |
| 100.000 | Pendiente | 2.625 | -0.1150 % |
| 120.000 | Pendiente | 2.602 | -0.1150 % |
| 140.000 | Pendiente | 2.579 | -0.1150 % |
| 160.000 | Pendiente | 2.556 | -0.1150 % |
| 180.000 | Pendiente | 2.533 | -0.1150 % |
| 200.000 | Pendiente | 2.510 | -0.1150 % |
| 220.000 | Pendiente | 2.487 | -0.1150 % |
| 240.000 | Pendiente | 2.464 | -0.1150 % |
| 260.000 | Pendiente | 2.441 | -0.1150 % |
| 280.000 | Pendiente | 2.418 | -0.1150 % |
| 291.013 | tg. entrada | 2.085 | -0.1150 % |
| 291.013 | tg. salida | 2.085 | Vertical |
| 291.013 | tg. entrada | 2.085 | Vertical |
| 291.013 | tg. salida | 2.085 | -0.1150 % |
| 300.000 | Pendiente | 2.075 | -0.1150 % |
| 320.000 | Pendiente | 2.052 | -0.1150 % |
| 340.000 | Pendiente | 2.029 | -0.1150 % |
| 360.000 | Pendiente | 2.006 | -0.1150 % |
| 380.000 | Pendiente | 1.983 | -0.1150 % |
| 400.000 | Pendiente | 1.960 | -0.1150 % |
| 420.000 | Pendiente | 1.937 | -0.1150 % |
| 440.000 | Pendiente | 1.914 | -0.1150 % |
| 460.000 | Pendiente | 1.891 | -0.1150 % |
| 480.000 | Pendiente | 1.868 | -0.1150 % |
| 500.000 | Pendiente | 1.845 | -0.1150 % |
| 520.000 | Pendiente | 1.822 | -0.1150 % |
| 540.000 | Pendiente | 1.799 | -0.1150 % |
| 547.465 | Pendiente | 1.790 | -0.1150 % |

EJE : 86 : REPOSICIÓN DE MORLANS

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PROYECTO :
EJE : 86 : reposición de Morlans

***** PUNTOS DEL EJE EN PLANTA *****

| TIPO | P.K. | X | Y | RADIO | Z RAS IZ. | Z RAS DR. | AZIMUT | DIST. EJE | Pend (%) | PERAL_I | PERAL_D | Z PROJ. | ZT (eje) | Z TERR. | Latitud (N) | Longitud (E) |
|-----------------|---------|------------|-------------|-------|-----------|-----------|------------|-----------|----------|---------|---------|---------|----------|---------|-------------|--------------|
| RECTA Pendiente | 0.000 | 582531.210 | 4795542.808 | 0.000 | 2.740 | 2.740 | 310.397880 | 0.000 | -0.115 | -0.00 | -0.00 | 2.740 | 6.515 | 6.515 | | |
| RECTA Pendiente | 10.000 | 582521.343 | 4795544.434 | 0.000 | 2.728 | 2.728 | 310.397880 | 0.000 | -0.115 | -0.00 | -0.00 | 2.728 | 6.451 | 6.451 | | |
| RECTA Pendiente | 17.734 | 582513.712 | 4795545.692 | 0.000 | 2.720 | 2.720 | 202.655754 | 0.000 | -0.115 | -0.00 | -0.00 | 2.720 | 6.569 | 6.569 | | |
| RECTA Pendiente | 20.000 | 582513.618 | 4795543.428 | 0.000 | 2.717 | 2.717 | 202.655754 | 0.000 | -0.115 | -0.00 | -0.00 | 2.717 | 6.525 | 6.525 | | |
| RECTA Pendiente | 30.000 | 582513.200 | 4795533.436 | 0.000 | 2.705 | 2.705 | 202.655754 | 0.000 | -0.115 | -0.00 | -0.00 | 2.705 | 6.636 | 6.636 | | |
| RECTA Pendiente | 40.000 | 582512.783 | 4795523.445 | 0.000 | 2.694 | 2.694 | 202.655754 | 0.000 | -0.115 | -0.00 | -0.00 | 2.694 | 6.601 | 6.601 | | |
| RECTA Pendiente | 50.000 | 582512.366 | 4795513.454 | 0.000 | 2.682 | 2.682 | 202.655754 | 0.000 | -0.115 | -0.00 | -0.00 | 2.682 | 6.463 | 6.463 | | |
| RECTA Pendiente | 50.255 | 582512.356 | 4795513.199 | 0.000 | 2.682 | 2.682 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.682 | 6.459 | 6.459 | | |
| RECTA Pendiente | 60.000 | 582513.939 | 4795503.583 | 0.000 | 2.671 | 2.671 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.671 | 6.320 | 6.320 | | |
| RECTA Pendiente | 70.000 | 582515.564 | 4795493.716 | 0.000 | 2.659 | 2.659 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.659 | 6.251 | 6.251 | | |
| RECTA Pendiente | 80.000 | 582517.188 | 4795483.849 | 0.000 | 2.648 | 2.648 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.648 | 6.242 | 6.242 | | |
| RECTA Pendiente | 90.000 | 582518.813 | 4795473.982 | 0.000 | 2.636 | 2.636 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.636 | 6.221 | 6.221 | | |
| RECTA Pendiente | 100.000 | 582520.438 | 4795464.115 | 0.000 | 2.625 | 2.625 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.625 | 6.376 | 6.376 | | |
| RECTA Pendiente | 110.000 | 582522.062 | 4795454.248 | 0.000 | 2.613 | 2.613 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.613 | 6.522 | 6.522 | | |
| RECTA Pendiente | 120.000 | 582523.687 | 4795444.380 | 0.000 | 2.602 | 2.602 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.602 | 6.535 | 6.535 | | |
| RECTA Pendiente | 130.000 | 582525.311 | 4795434.513 | 0.000 | 2.590 | 2.590 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.590 | 7.023 | 7.023 | | |
| RECTA Pendiente | 140.000 | 582526.936 | 4795424.646 | 0.000 | 2.579 | 2.579 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.579 | 7.454 | 7.454 | | |
| RECTA Pendiente | 150.000 | 582528.561 | 4795414.779 | 0.000 | 2.567 | 2.567 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.567 | 7.174 | 7.174 | | |
| RECTA Pendiente | 160.000 | 582530.185 | 4795404.912 | 0.000 | 2.556 | 2.556 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.556 | 6.923 | 6.923 | | |
| RECTA Pendiente | 170.000 | 582531.810 | 4795395.045 | 0.000 | 2.544 | 2.544 | 189.611225 | 0.000 | -0.115 | -0.00 | -0.00 | 2.544 | 6.849 | 6.849 | | |
| RECTA Pendiente | 174.716 | 582532.576 | 4795390.392 | 0.000 | 2.539 | 2.539 | 220.175586 | 0.000 | -0.115 | -0.00 | -0.00 | 2.539 | 6.945 | 6.945 | | |
| RECTA Pendiente | 180.000 | 582530.929 | 4795385.371 | 0.000 | 2.533 | 2.533 | 220.175586 | 0.000 | -0.115 | -0.00 | -0.00 | 2.533 | 7.642 | 7.642 | | |
| RECTA Pendiente | 190.000 | 582527.813 | 4795375.869 | 0.000 | 2.521 | 2.521 | 220.175586 | 0.000 | -0.115 | -0.00 | -0.00 | 2.521 | 6.716 | 6.716 | | |
| RECTA Pendiente | 200.000 | 582524.697 | 4795366.367 | 0.000 | 2.510 | 2.510 | 220.175586 | 0.000 | -0.115 | -0.00 | -0.00 | 2.510 | 6.529 | 6.529 | | |
| RECTA Pendiente | 210.000 | 582521.580 | 4795356.865 | 0.000 | 2.498 | 2.498 | 220.175586 | 0.000 | -0.115 | -0.00 | -0.00 | 2.498 | 6.589 | 6.589 | | |
| RECTA Pendiente | 220.000 | 582518.464 | 4795347.363 | 0.000 | 2.487 | 2.487 | 220.175586 | 0.000 | -0.115 | -0.00 | -0.00 | 2.487 | 6.770 | 6.770 | | |
| RECTA Pendiente | 230.000 | 582515.347 | 4795337.861 | 0.000 | 2.475 | 2.475 | 220.175586 | 0.000 | -0.115 | -0.00 | -0.00 | 2.475 | 6.816 | 6.816 | | |
| RECTA Pendiente | 230.772 | 582515.107 | 4795337.127 | 0.000 | 2.475 | 2.475 | 221.906192 | 0.000 | -0.115 | -0.00 | -0.00 | 2.475 | 6.880 | 6.880 | | |
| RECTA Pendiente | 240.000 | 582511.994 | 4795328.440 | 0.000 | 2.464 | 2.464 | 221.906192 | 0.000 | -0.115 | -0.00 | -0.00 | 2.464 | 6.435 | 6.435 | | |
| RECTA Pendiente | 250.000 | 582508.820 | 4795319.026 | 0.000 | 2.452 | 2.452 | 221.906192 | 0.000 | -0.115 | -0.00 | -0.00 | 2.452 | 6.111 | 6.111 | | |
| RECTA Pendiente | 260.000 | 582505.247 | 4795309.612 | 0.000 | 2.441 | 2.441 | 221.906192 | 0.000 | -0.115 | -0.00 | -0.00 | 2.441 | 6.315 | 6.315 | | |
| RECTA Pendiente | 270.000 | 582501.873 | 4795300.199 | 0.000 | 2.429 | 2.429 | 221.906192 | 0.000 | -0.115 | -0.00 | -0.00 | 2.429 | 6.566 | 6.566 | | |
| RECTA Pendiente | 280.000 | 582498.500 | 4795290.785 | 0.000 | 2.418 | 2.418 | 221.906192 | 0.000 | -0.115 | -0.00 | -0.00 | 2.418 | 6.861 | 6.861 | | |
| RECTA Pendiente | 290.000 | 582495.126 | 4795281.371 | 0.000 | 2.406 | 2.406 | 221.906192 | 0.000 | -0.115 | -0.00 | -0.00 | 2.406 | 7.201 | 7.201 | | |
| RECTA Pendiente | 291.013 | 582494.785 | 4795280.418 | 0.000 | 2.405 | 2.405 | 218.762131 | 0.000 | -0.115 | -0.00 | -0.00 | 2.405 | 7.229 | 7.229 | | |
| RECTA Pendiente | 300.000 | 582492.174 | 4795271.818 | 0.000 | 2.075 | 2.075 | 218.762131 | 0.000 | -0.115 | -0.00 | -0.00 | 2.075 | 7.582 | 7.582 | | |
| RECTA Pendiente | 310.000 | 582489.269 | 4795262.249 | 0.000 | 2.063 | 2.063 | 218.762131 | 0.000 | -0.115 | -0.00 | -0.00 | 2.063 | 7.998 | 7.998 | | |
| RECTA Pendiente | 320.000 | 582486.365 | 4795252.680 | 0.000 | 2.052 | 2.052 | 218.762131 | 0.000 | -0.115 | -0.00 | -0.00 | 2.052 | 8.422 | 8.422 | | |
| RECTA Pendiente | 321.331 | 582485.978 | 4795251.406 | 0.000 | 2.050 | 2.050 | 214.584112 | 0.000 | -0.115 | -0.00 | -0.00 | 2.050 | 8.474 | 8.474 | | |
| RECTA Pendiente | 330.000 | 582482.009 | 4795242.964 | 0.000 | 2.040 | 2.040 | 214.584112 | 0.000 | -0.115 | -0.00 | -0.00 | 2.040 | 8.890 | 8.890 | | |
| RECTA Pendiente | 337.068 | 582482.404 | 4795236.080 | 0.000 | 2.032 | 2.032 | 112.776174 | 0.000 | -0.115 | -0.00 | -0.00 | 2.032 | 9.297 | 9.297 | | |
| RECTA Pendiente | 340.000 | 582485.277 | 4795235.496 | 0.000 | 2.029 | 2.029 | 112.776174 | 0.000 | -0.115 | -0.00 | -0.00 | 2.029 | 9.469 | 9.469 | | |
| RECTA Pendiente | 350.000 | 582495.076 | 4795233.502 | 0.000 | 2.017 | 2.017 | 112.776174 | 0.000 | -0.115 | -0.00 | -0.00 | 2.017 | 9.074 | 9.074 | | |
| RECTA Pendiente | 352.913 | 582497.931 | 4795232.922 | 0.000 | 2.014 | 2.014 | 13.993137 | 0.000 | -0.115 | -0.00 | -0.00 | 2.014 | 8.960 | 8.960 | | |
| RECTA Pendiente | 360.000 | 582499.476 | 4795239.838 | 0.000 | 2.006 | 2.006 | 13.993137 | 0.000 | -0.115 | -0.00 | -0.00 | 2.006 | 8.579 | 8.579 | | |
| RECTA Pendiente | 368.077 | 582501.237 | 4795247.721 | 0.000 | 1.996 | 1.996 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.996 | 8.281 | 8.281 | | |
| RECTA Pendiente | 370.000 | 582501.853 | 4795249.543 | 0.000 | 1.994 | 1.994 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.994 | 8.206 | 8.206 | | |
| RECTA Pendiente | 380.000 | 582505.052 | 4795259.017 | 0.000 | 1.983 | 1.983 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.983 | 7.901 | 7.901 | | |
| RECTA Pendiente | 390.000 | 582508.251 | 4795268.492 | 0.000 | 1.971 | 1.971 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.971 | 7.779 | 7.779 | | |
| RECTA Pendiente | 400.000 | 582511.450 | 4795277.966 | 0.000 | 1.960 | 1.960 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.960 | 7.548 | 7.548 | | |

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PROYECTO :
EJE : 86 : reposición de Morlans

***** PUNTOS DEL EJE EN PLANTA *****

| TIPO | P.K. | X | Y | RADIO | Z RAS IZ. | Z RAS DR. | AZIMUT | DIST. EJE | Pend (%) | PERAL_I | PERAL_D | Z PROJ. | ZT (eje) | Z TERR. | Latitud (N) | Longitud (E) |
|-----------------|---------|------------|-------------|-------|-----------|-----------|-----------|-----------|----------|---------|---------|---------|----------|---------|-------------|--------------|
| RECTA Pendiente | 410.000 | 582514.649 | 4795287.441 | 0.000 | 1.948 | 1.948 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.948 | 7.558 | 7.558 | | |
| RECTA Pendiente | 420.000 | 582517.848 | 4795296.915 | 0.000 | 1.937 | 1.937 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.937 | 7.380 | 7.380 | | |
| RECTA Pendiente | 430.000 | 582521.048 | 4795306.389 | 0.000 | 1.925 | 1.925 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.925 | 7.223 | 7.223 | | |
| RECTA Pendiente | 440.000 | 582524.247 | 4795315.864 | 0.000 | 1.914 | 1.914 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.914 | 7.079 | 7.079 | | |
| RECTA Pendiente | 450.000 | 582527.446 | 4795325.338 | 0.000 | 1.902 | 1.902 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.902 | 6.914 | 6.914 | | |
| RECTA Pendiente | 460.000 | 582530.645 | 4795334.813 | 0.000 | 1.891 | 1.891 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.891 | 6.760 | 6.760 | | |
| RECTA Pendiente | 470.000 | 582533.844 | 4795344.287 | 0.000 | 1.879 | 1.879 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.879 | 6.653 | 6.653 | | |
| RECTA Pendiente | 480.000 | 582537.043 | 4795353.762 | 0.000 | 1.868 | 1.868 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.868 | 6.532 | 6.532 | | |
| RECTA Pendiente | 490.000 | 582540.243 | 4795363.236 | 0.000 | 1.856 | 1.856 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.856 | 6.467 | 6.467 | | |
| RECTA Pendiente | 500.000 | 582543.442 | 4795372.711 | 0.000 | 1.845 | 1.845 | 20.731001 | 0.000 | -0.115 | -0.00 | -0.00 | 1.845 | 6.791 | 6.791 | | |
| RECTA Pendiente | 508.084 | 582546.028 | 4795380.369 | 0.000 | 1.835 | 1.835 | 28.074134 | 0.000 | -0.115 | -0.00 | -0.00 | 1.835 | 6.689 | 6.689 | | |
| RECTA Pendiente | 510.000 | 582546.846 | 4795382.103 | 0.000 | 1.833 | 1.833 | 28.074134 | 0.000 | -0.115 | -0.00 | -0.00 | 1.833 | 6.629 | 6.629 | | |
| RECTA Pendiente | 520.000 | 582551.114 | 4795391.146 | 0.000 | 1.822 | 1.822 | 28.074134 | 0.000 | -0.115 | -0.00 | -0.00 | 1.822 | 6.680 | 6.680 | | |
| RECTA Pendiente | 530.000 | 582555.382 | 4795400.189 | 0.000 | 1.810 | 1.810 | 28.074134 | 0.000 | -0.115 | -0.00 | -0.00 | 1.810 | 6.630 | 6.630 | | |
| RECTA Pendiente | 540.000 | 582559.651 | 4795409.232 | 0.000 | 1.799 | 1.799 | 28.074134 | 0.000 | -0.115 | -0.00 | -0.00 | 1.799 | | | | |

1.2 DEFINICION GEOMETRICA COLECTOR DE FECALES

GRUPO : 27 : COLECTOR FECALES

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pagina 1

PROYECTO :
GRUPO : 27 : colector fecales
EJE : 133 : Colector Fecales (AMARA-133g.vol)

***** LISTADO DE LAS ALINEACIONES *****

| DATO | TIPO | LONGITUD | P.K. | X TANGENCIA | Y TANGENCIA | RADIO | PARAMETRO | AZIMUT | Cos/Xc/Xinf | Sen/Yc/Yinf | Latitud (N) | Longitud (E) |
|------|-------|----------|------|-------------|-------------|-------------|--------------|--------|-------------|-------------|-------------|--------------|
| 1 | RECTA | 33.255 | | 0.000 | 582477.890 | 4795539.310 | | | 102.6558 | 0.9991300 | -0.0417044 | |
| 2 | RECTA | 24.180 | | 33.255 | 582511.116 | 4795537.923 | a= 89-59'59" | | 202.6558 | -0.0417044 | -0.9991300 | |
| 3 | RECTA | 1.422 | | 57.435 | 582510.107 | 4795513.764 | a= 4-18'24" | | 207.4412 | -0.1166195 | -0.9931767 | |
| 4 | RECTA | 123.400 | | 58.857 | 582509.942 | 4795512.351 | a= 16-02'48" | | 189.6112 | 0.1624632 | -0.9867146 | |
| 5 | RECTA | 55.405 | | 182.257 | 582529.989 | 4795390.591 | a= 27-30'28" | | 220.1756 | -0.3116389 | -0.9502006 | |
| 6 | RECTA | 29.429 | | 237.662 | 582512.723 | 4795337.945 | a= 1-33'27" | | 221.9062 | -0.3373511 | -0.9413789 | |
| 7 | RECTA | 1.422 | | 267.092 | 582502.795 | 4795310.241 | a= 10-07'28" | | 210.6565 | -0.1666116 | -0.9860226 | |
| 8 | RECTA | 29.433 | | 268.514 | 582502.558 | 4795308.838 | a= 10-07'28" | | 221.9062 | -0.3373511 | -0.9413789 | |
| 9 | RECTA | 30.449 | | 297.947 | 582492.629 | 4795281.131 | a= 2-49'46" | | 218.7621 | -0.2904670 | -0.9568850 | |
| 10 | RECTA | 19.047 | | 328.396 | 582483.784 | 4795251.994 | a= 3-45'36" | | 214.5841 | -0.2270882 | -0.9738742 | |
| 11 | RECTA | 20.805 | | 347.443 | 582479.459 | 4795233.445 | a= 91-37'37" | | 112.7762 | 0.9799297 | -0.1993433 | |
| 12 | RECTA | 52.555 | | 368.249 | 582499.847 | 4795229.297 | a= 59-58'14" | | 46.1420 | 0.6629828 | 0.7486346 | |
| 13 | RECTA | 34.783 | | 420.804 | 582534.690 | 4795268.642 | a= 40-54'33" | | 91.5967 | 0.9913007 | 0.1316163 | |
| | | | | 455.587 | 582569.170 | 4795273.220 | | | 91.5967 | | | |

EJES EN PLANTA

```

#-----
#      Num Eje  P.K. inicial  N.Palabras Titulo del Eje
#-----
EJE      133          0.000000          2 Colector Fecales
REV      2210
ALIAS4  N-634
GRUPO    27
TIPO     401
CM        2
CAR        1
VD       80.000
MD         0
RV       23.02 143 (2023/02/01)
VU        0 80.000
NCE       1.000
ACE        3.500
    
```

Anchos derecha derecha izquierda izquierda

```

#-----
# ANCHOS      0.000      0.000      0.000      0.000
#-----
    
```

| # | Tipo | clave | X (L ant) | Y (dL ant) | R | A1 | A2 | A | L | D | Az | Etiq | Peralte |
|---------------|------|---------------|----------------|------------|----------|----------|----------|----------|----------|----------|-----------|------|-------------------------|
| ALI FIJA-2P+R | 0 | 582477.890000 | 4795539.310000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582511.115804 | 4795537.923132 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582510.107378 | 4795513.763825 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582509.941501 | 4795512.351152 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582529.989411 | 4795390.590861 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582512.722999 | 4795337.944821 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582512.722999 | 4795337.944821 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582502.794938 | 4795310.240552 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582502.557992 | 4795308.838284 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582492.628785 | 4795281.130816 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582483.784210 | 4795251.994149 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582479.458820 | 4795233.444588 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582499.846566 | 4795229.297189 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582534.689939 | 4795268.642036 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582534.689939 | 4795268.642036 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0 | 0.000 0 0 0.000 0.000 0 |
| ALI FIJA-2P+R | 0 | 582569.170000 | 4795273.220000 | | | | | | | | | | |

#---
FIN

Anejo nº15: Trazado

X0000265-PC-AN-TRZ-0

Página 5

PROYECTO DE CONSTRUCCIÓN DE LA REPOSICION DE LA REGATA DE MORLANS



EJE : 133 : COLECTOR FECALES (AMARA-133G.VOL)

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pagina 1

PROYECTO :
GRUPO : 27 : colector fecales
EJE : 133 : Colector Fecales (AMARA-133g.vol)

***** ESTADO DE RASANTES *****

| PENDIENTE | LONGITUD | PARAMETRO | VÉRTICE | | ENTRADA AL ACUERDO | | SALIDA DEL ACUERDO | | BISECT. | DIF.PEN |
|-----------|----------|-----------|---------|---|--------------------|-------|--------------------|---|---------|---------|
| | | | PK | Z | PK | Z | PK | Z | | |
| (%) | (m.) | (kv) | | | | | | | (m.) | (%) |
| -0.515599 | | | | | 0.000 | 4.315 | | | 455.587 | 1.966 |

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pagina 2

PROYECTO :
GRUPO : 27 : colector fecales
EJE : 133 : Colector Fecales (AMARA-133g.vol)

***** PUNTOS DEL EJE EN ALZADO *****

| P.K. | TIPO | COTA | PENDIENTE |
|---------|-----------|-------|-----------|
| 0.000 | Pendiente | 4.315 | -0.5156 % |
| 20.000 | Pendiente | 4.212 | -0.5156 % |
| 40.000 | Pendiente | 4.109 | -0.5156 % |
| 60.000 | Pendiente | 4.006 | -0.5156 % |
| 80.000 | Pendiente | 3.903 | -0.5156 % |
| 100.000 | Pendiente | 3.799 | -0.5156 % |
| 120.000 | Pendiente | 3.696 | -0.5156 % |
| 140.000 | Pendiente | 3.593 | -0.5156 % |
| 160.000 | Pendiente | 3.490 | -0.5156 % |
| 180.000 | Pendiente | 3.387 | -0.5156 % |
| 200.000 | Pendiente | 3.284 | -0.5156 % |
| 220.000 | Pendiente | 3.181 | -0.5156 % |
| 240.000 | Pendiente | 3.078 | -0.5156 % |
| 260.000 | Pendiente | 2.974 | -0.5156 % |
| 280.000 | Pendiente | 2.871 | -0.5156 % |
| 300.000 | Pendiente | 2.768 | -0.5156 % |
| 320.000 | Pendiente | 2.665 | -0.5156 % |
| 340.000 | Pendiente | 2.562 | -0.5156 % |
| 360.000 | Pendiente | 2.459 | -0.5156 % |
| 380.000 | Pendiente | 2.356 | -0.5156 % |
| 400.000 | Pendiente | 2.253 | -0.5156 % |
| 420.000 | Pendiente | 2.149 | -0.5156 % |
| 440.000 | Pendiente | 2.046 | -0.5156 % |
| 455.587 | Pendiente | 1.966 | -0.5156 % |

Anejo nº15: Trazado

X0000265-PC-AN-TRZ-0

Página 6

PROYECTO DE CONSTRUCCIÓN DE LA REPOSICION DE LA REGATA DE MORLANS



EJE : 133 : COLECTOR FECALES

Istram 23.02.02.01 03/03/23 10:08:04 143

pagina 1

PROYECTO :
EJE : 133 : Colector Fecales

***** PUNTOS DEL EJE EN PLANTA *****

| TIPO | P.K. | X | Y | RADIO | Z RAS IZ. | Z RAS DR. | AZIMUT | DIST. EJE Pend (%) | PERAL_I | PERAL_D | Z PROJ. | ZT (eje) | Z TERR. | Latitud (N) | Longitud (E) |
|-----------------|---------|------------|-------------|-------|-----------|-----------|------------|--------------------|---------|---------|---------|----------|---------|-------------|--------------|
| RECTA Pendiente | 0.000 | 582477.890 | 4795539.310 | 0.000 | 4.315 | 4.315 | 102.655753 | 0.000 | -0.516 | 0.00 | 0.00 | 4.315 | 7.570 | 7.570 | |
| RECTA Pendiente | 10.000 | 582487.881 | 4795538.893 | 0.000 | 4.263 | 4.263 | 102.655753 | 0.000 | -0.516 | 0.00 | 0.00 | 4.263 | 7.378 | 7.378 | |
| RECTA Pendiente | 20.000 | 582497.873 | 4795538.476 | 0.000 | 4.212 | 4.212 | 102.655753 | 0.000 | -0.516 | 0.00 | 0.00 | 4.212 | 7.115 | 7.115 | |
| RECTA Pendiente | 30.000 | 582507.864 | 4795538.059 | 0.000 | 4.160 | 4.160 | 102.655753 | 0.000 | -0.516 | 0.00 | 0.00 | 4.160 | 6.834 | 6.834 | |
| RECTA Pendiente | 33.255 | 582511.116 | 4795537.923 | 0.000 | 4.144 | 4.144 | 202.655753 | 0.000 | -0.516 | 0.00 | 0.00 | 4.144 | 6.704 | 6.704 | |
| RECTA Pendiente | 40.000 | 582510.834 | 4795531.184 | 0.000 | 4.109 | 4.109 | 202.655753 | 0.000 | -0.516 | 0.00 | 0.00 | 4.109 | 6.781 | 6.781 | |
| RECTA Pendiente | 50.000 | 582510.417 | 4795521.192 | 0.000 | 4.057 | 4.057 | 202.655753 | 0.000 | -0.516 | 0.00 | 0.00 | 4.057 | 6.630 | 6.630 | |
| RECTA Pendiente | 57.435 | 582510.107 | 4795513.764 | 0.000 | 4.019 | 4.019 | 207.441125 | 0.000 | -0.516 | 0.00 | 0.00 | 4.019 | 6.499 | 6.499 | |
| RECTA Pendiente | 58.857 | 582509.942 | 4795512.351 | 0.000 | 4.012 | 4.012 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 4.012 | 6.475 | 6.475 | |
| RECTA Pendiente | 60.000 | 582510.127 | 4795511.224 | 0.000 | 4.006 | 4.006 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 4.006 | 6.456 | 6.456 | |
| RECTA Pendiente | 70.000 | 582511.752 | 4795501.357 | 0.000 | 3.954 | 3.954 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.954 | 6.354 | 6.354 | |
| RECTA Pendiente | 80.000 | 582513.376 | 4795491.489 | 0.000 | 3.903 | 3.903 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.903 | 6.276 | 6.276 | |
| RECTA Pendiente | 90.000 | 582515.001 | 4795481.622 | 0.000 | 3.851 | 3.851 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.851 | 6.273 | 6.273 | |
| RECTA Pendiente | 100.000 | 582516.626 | 4795471.755 | 0.000 | 3.799 | 3.799 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.799 | 6.306 | 6.306 | |
| RECTA Pendiente | 110.000 | 582518.250 | 4795461.888 | 0.000 | 3.748 | 3.748 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.748 | 6.474 | 6.474 | |
| RECTA Pendiente | 120.000 | 582519.875 | 4795452.021 | 0.000 | 3.696 | 3.696 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.696 | 6.624 | 6.624 | |
| RECTA Pendiente | 130.000 | 582521.500 | 4795442.154 | 0.000 | 3.645 | 3.645 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.645 | 6.708 | 6.708 | |
| RECTA Pendiente | 140.000 | 582523.124 | 4795432.287 | 0.000 | 3.593 | 3.593 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.593 | 7.295 | 7.295 | |
| RECTA Pendiente | 150.000 | 582524.749 | 4795422.419 | 0.000 | 3.542 | 3.542 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.542 | 7.561 | 7.561 | |
| RECTA Pendiente | 160.000 | 582526.373 | 4795412.552 | 0.000 | 3.490 | 3.490 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.490 | 7.219 | 7.219 | |
| RECTA Pendiente | 170.000 | 582527.998 | 4795402.685 | 0.000 | 3.438 | 3.438 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.438 | 7.182 | 7.182 | |
| RECTA Pendiente | 180.000 | 582529.623 | 4795392.818 | 0.000 | 3.387 | 3.387 | 189.611225 | 0.000 | -0.516 | 0.00 | 0.00 | 3.387 | 7.071 | 7.071 | |
| RECTA Pendiente | 182.257 | 582529.989 | 4795390.591 | 0.000 | 3.375 | 3.375 | 220.175586 | 0.000 | -0.516 | 0.00 | 0.00 | 3.375 | 7.297 | 7.297 | |
| RECTA Pendiente | 190.000 | 582527.576 | 4795383.234 | 0.000 | 3.335 | 3.335 | 220.175586 | 0.000 | -0.516 | 0.00 | 0.00 | 3.335 | 7.953 | 7.953 | |
| RECTA Pendiente | 200.000 | 582524.460 | 4795373.732 | 0.000 | 3.284 | 3.284 | 220.175586 | 0.000 | -0.516 | 0.00 | 0.00 | 3.284 | 7.535 | 7.535 | |
| RECTA Pendiente | 210.000 | 582521.344 | 4795364.230 | 0.000 | 3.232 | 3.232 | 220.175586 | 0.000 | -0.516 | 0.00 | 0.00 | 3.232 | 7.541 | 7.541 | |
| RECTA Pendiente | 220.000 | 582518.227 | 4795354.728 | 0.000 | 3.181 | 3.181 | 220.175586 | 0.000 | -0.516 | 0.00 | 0.00 | 3.181 | 7.847 | 7.847 | |
| RECTA Pendiente | 230.000 | 582515.111 | 4795345.226 | 0.000 | 3.129 | 3.129 | 220.175586 | 0.000 | -0.516 | 0.00 | 0.00 | 3.129 | 7.573 | 7.573 | |
| RECTA Pendiente | 237.662 | 582512.723 | 4795337.945 | 0.000 | 3.090 | 3.090 | 221.906193 | 0.000 | -0.516 | 0.00 | 0.00 | 3.090 | 6.954 | 6.954 | |
| RECTA Pendiente | 240.000 | 582511.934 | 4795335.744 | 0.000 | 3.078 | 3.078 | 221.906193 | 0.000 | -0.516 | 0.00 | 0.00 | 3.078 | 6.798 | 6.798 | |
| RECTA Pendiente | 250.000 | 582508.561 | 4795326.330 | 0.000 | 3.026 | 3.026 | 221.906193 | 0.000 | -0.516 | 0.00 | 0.00 | 3.026 | 6.228 | 6.228 | |
| RECTA Pendiente | 260.000 | 582505.187 | 4795316.917 | 0.000 | 2.974 | 2.974 | 221.906193 | 0.000 | -0.516 | 0.00 | 0.00 | 2.974 | 6.124 | 6.124 | |
| RECTA Pendiente | 267.092 | 582502.795 | 4795310.241 | 0.000 | 2.938 | 2.938 | 210.656520 | 0.000 | -0.516 | 0.00 | 0.00 | 2.938 | 6.280 | 6.280 | |
| RECTA Pendiente | 268.514 | 582502.558 | 4795308.838 | 0.000 | 2.931 | 2.931 | 221.906192 | 0.000 | -0.516 | 0.00 | 0.00 | 2.931 | 6.320 | 6.320 | |
| RECTA Pendiente | 270.000 | 582502.057 | 4795307.439 | 0.000 | 2.923 | 2.923 | 221.906192 | 0.000 | -0.516 | 0.00 | 0.00 | 2.923 | 6.359 | 6.359 | |
| RECTA Pendiente | 280.000 | 582498.683 | 4795298.026 | 0.000 | 2.871 | 2.871 | 221.906192 | 0.000 | -0.516 | 0.00 | 0.00 | 2.871 | 6.619 | 6.619 | |
| RECTA Pendiente | 290.000 | 582495.310 | 4795288.612 | 0.000 | 2.820 | 2.820 | 221.906192 | 0.000 | -0.516 | 0.00 | 0.00 | 2.820 | 6.944 | 6.944 | |
| RECTA Pendiente | 297.947 | 582492.629 | 4795281.131 | 0.000 | 2.779 | 2.779 | 218.762132 | 0.000 | -0.516 | 0.00 | 0.00 | 2.779 | 7.209 | 7.209 | |
| RECTA Pendiente | 300.000 | 582492.032 | 4795279.166 | 0.000 | 2.768 | 2.768 | 218.762132 | 0.000 | -0.516 | 0.00 | 0.00 | 2.768 | 7.283 | 7.283 | |
| RECTA Pendiente | 310.000 | 582489.128 | 4795269.597 | 0.000 | 2.717 | 2.717 | 218.762132 | 0.000 | -0.516 | 0.00 | 0.00 | 2.717 | 7.689 | 7.689 | |
| RECTA Pendiente | 320.000 | 582486.223 | 4795260.028 | 0.000 | 2.665 | 2.665 | 218.762132 | 0.000 | -0.516 | 0.00 | 0.00 | 2.665 | 8.104 | 8.104 | |
| RECTA Pendiente | 328.396 | 582483.784 | 4795251.994 | 0.000 | 2.622 | 2.622 | 214.584111 | 0.000 | -0.516 | 0.00 | 0.00 | 2.622 | 8.448 | 8.448 | |
| RECTA Pendiente | 330.000 | 582483.420 | 4795250.432 | 0.000 | 2.614 | 2.614 | 214.584111 | 0.000 | -0.516 | 0.00 | 0.00 | 2.614 | 8.517 | 8.517 | |
| RECTA Pendiente | 340.000 | 582481.149 | 4795240.694 | 0.000 | 2.562 | 2.562 | 214.584111 | 0.000 | -0.516 | 0.00 | 0.00 | 2.562 | 9.014 | 9.014 | |
| RECTA Pendiente | 347.443 | 582479.459 | 4795233.445 | 0.000 | 2.524 | 2.524 | 112.776174 | 0.000 | -0.516 | 0.00 | 0.00 | 2.524 | 9.444 | 9.444 | |
| RECTA Pendiente | 350.000 | 582481.964 | 4795232.935 | 0.000 | 2.510 | 2.510 | 112.776174 | 0.000 | -0.516 | 0.00 | 0.00 | 2.510 | 9.484 | 9.484 | |
| RECTA Pendiente | 360.000 | 582491.763 | 4795230.942 | 0.000 | 2.459 | 2.459 | 112.776174 | 0.000 | -0.516 | 0.00 | 0.00 | 2.459 | 9.334 | 9.334 | |
| RECTA Pendiente | 368.249 | 582499.847 | 4795229.297 | 0.000 | 2.416 | 2.416 | 46.141950 | 0.000 | -0.516 | 0.00 | 0.00 | 2.416 | 8.983 | 8.983 | |
| RECTA Pendiente | 370.000 | 582501.008 | 4795230.608 | 0.000 | 2.407 | 2.407 | 46.141950 | 0.000 | -0.516 | 0.00 | 0.00 | 2.407 | 8.894 | 8.894 | |
| RECTA Pendiente | 380.000 | 582507.637 | 4795238.095 | 0.000 | 2.356 | 2.356 | 46.141950 | 0.000 | -0.516 | 0.00 | 0.00 | 2.356 | 8.413 | 8.413 | |

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PROYECTO :
EJE : 133 : Colector Fecales

***** PUNTOS DEL EJE EN PLANTA *****

| TIPO | P.K. | X | Y | RADIO | Z RAS IZ. | Z RAS DR. | AZIMUT | DIST. EJE Pend (%) | PERAL_I | PERAL_D | Z PROJ. | ZT (eje) | Z TERR. | Latitud (N) | Longitud (E) |
|-----------------|---------|------------|-------------|-------|-----------|-----------|-----------|--------------------|---------|---------|---------|----------|---------|-------------|--------------|
| RECTA Pendiente | 390.000 | 582514.267 | 4795245.581 | 0.000 | 2.304 | 2.304 | 46.141950 | 0.000 | -0.516 | 0.00 | 0.00 | 2.304 | 7.996 | 7.996 | |
| RECTA Pendiente | 400.000 | 582520.897 | 4795253.067 | 0.000 | 2.253 | 2.253 | 46.141950 | 0.000 | -0.516 | 0.00 | 0.00 | 2.253 | 7.725 | 7.725 | |
| RECTA Pendiente | 410.000 | 582527.527 | 4795260.554 | 0.000 | 2.201 | 2.201 | 46.141950 | 0.000 | -0.516 | 0.00 | 0.00 | 2.201 | 7.571 | 7.571 | |
| RECTA Pendiente | 420.000 | 582534.157 | 4795268.040 | 0.000 | 2.149 | 2.149 | 46.141950 | 0.000 | -0.516 | 0.00 | 0.00 | 2.149 | 7.383 | 7.383 | |
| RECTA Pendiente | 420.804 | 582534.690 | 4795268.642 | 0.000 | 2.145 | 2.145 | 91.596662 | 0.000 | -0.516 | 0.00 | 0.00 | 2.145 | 7.361 | 7.361 | |
| RECTA Pendiente | 430.000 | 582543.806 | 4795269.852 | 0.000 | 2.098 | 2.098 | 91.596662 | 0.000 | -0.516 | 0.00 | 0.00 | 2.098 | 7.088 | 7.088 | |
| RECTA Pendiente | 440.000 | 582553.719 | 4795271.169 | 0.000 | 2.046 | 2.046 | 91.596662 | 0.000 | -0.516 | 0.00 | 0.00 | 2.046 | 6.718 | 6.718 | |
| RECTA Pendiente | 450.000 | 582563.632 | 4795272.485 | 0.000 | 1.995 | 1.995 | 91.596662 | 0.000 | -0.516 | 0.00 | 0.00 | 1.995 | 6.567 | 6.567 | |
| RECTA Pendiente | 455.587 | 582569.170 | 4795273.220 | 0.000 | 1.966 | 1.966 | 91.596662 | 0.000 | -0.516 | 0.00 | 0.00 | 1.966 | 6.516 | 6.516 | |

Anejo nº15: Trazado

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PROYECTO DE CONSTRUCCIÓN DE LA REPOSICION DE LA REGATA DE MORLANS

