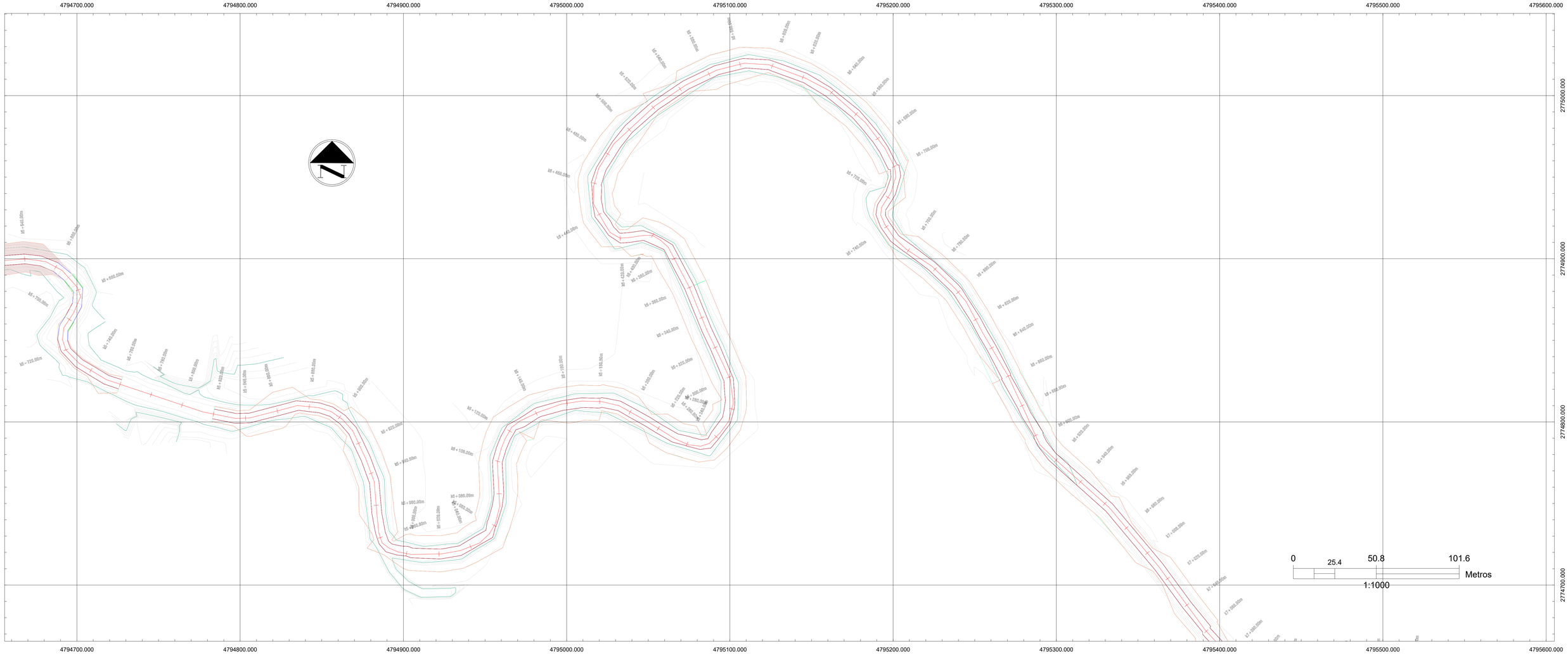
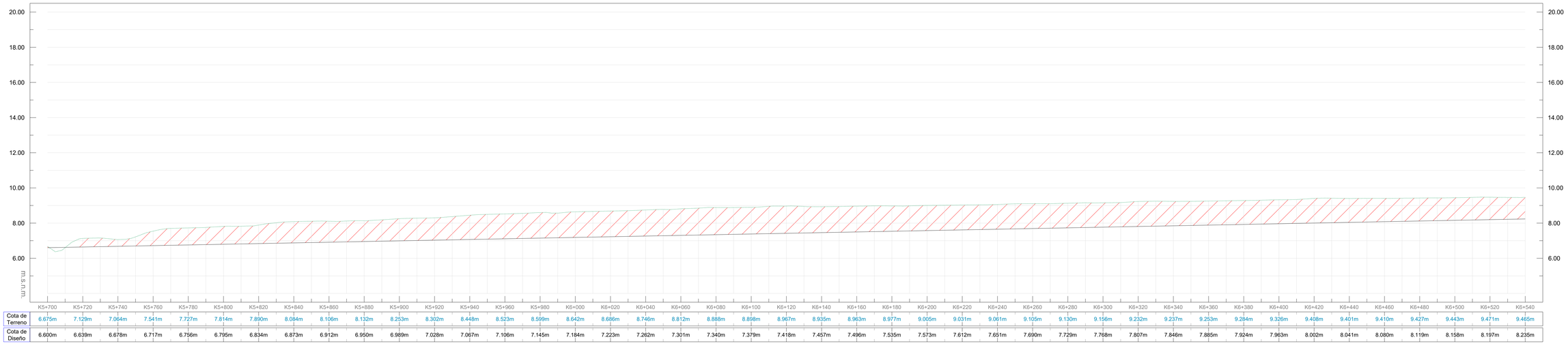



| | K5+700 | K5+720 | K5+740 | K5+760 | K5+780 | K5+800 | K5+820 | K5+840 | K5+860 | K5+880 | K5+900 | K5+920 | K5+940 | K5+960 | K5+980 | K6+000 | K6+020 | K6+040 | K6+060 | K6+080 | K6+100 | K6+120 | K6+140 | K6+160 | K6+180 | K6+200 | K6+220 | K6+240 | K6+260 | K6+280 | K6+300 | K6+320 | K6+340 | K6+360 | K6+380 | K6+400 | K6+420 | K6+440 | K6+460 | K6+480 | K6+500 | K6+520 | K6+540 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cota de Terreno | 6.675m | 7.129m | 7.064m | 7.541m | 7.727m | 7.814m | 7.890m | 8.084m | 8.106m | 8.132m | 8.253m | 8.302m | 8.448m | 8.523m | 8.599m | 8.642m | 8.686m | 8.746m | 8.812m | 8.888m | 8.898m | 8.967m | 8.935m | 8.963m | 8.977m | 9.005m | 9.031m | 9.061m | 9.105m | 9.130m | 9.156m | 9.232m | 9.237m | 9.253m | 9.284m | 9.326m | 9.408m | 9.401m | 9.410m | 9.427m | 9.443m | 9.471m | 9.465m |
| Cota de Diseño | 6.600m | 6.639m | 6.678m | 6.717m | 6.756m | 6.795m | 6.834m | 6.873m | 6.912m | 6.950m | 6.989m | 7.028m | 7.067m | 7.106m | 7.145m | 7.184m | 7.223m | 7.262m | 7.301m | 7.340m | 7.379m | 7.418m | 7.457m | 7.496m | 7.535m | 7.573m | 7.612m | 7.651m | 7.690m | 7.729m | 7.768m | 7.807m | 7.846m | 7.885m | 7.924m | 7.963m | 8.002m | 8.041m | 8.080m | 8.119m | 8.158m | 8.197m | 8.235m |

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

Universidad del Magdalena 1962

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 01 - PLANTA Y PERFIL

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

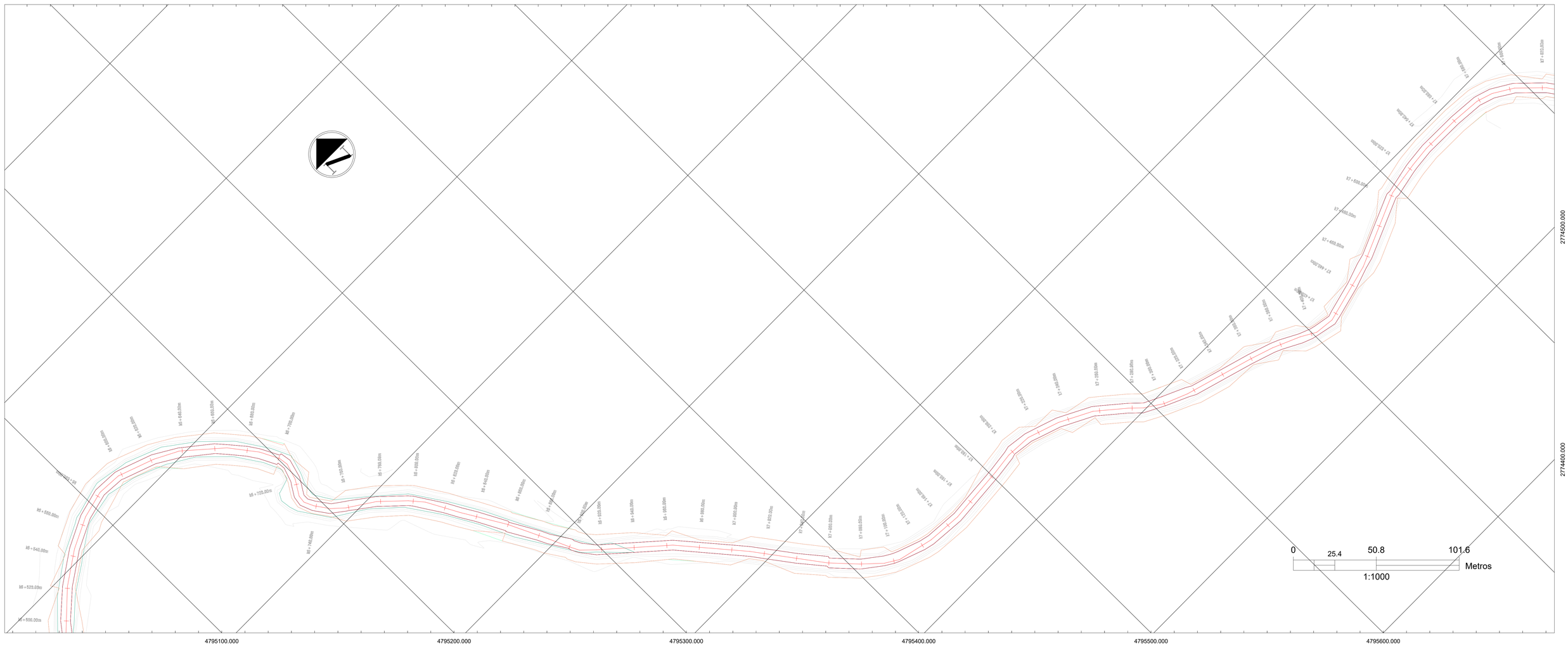
ENERO DE 2025

**ESCALA:**

PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

**01**
DE 14







| | K6+540 | K6+560 | K6+580 | K6+600 | K6+620 | K6+640 | K6+660 | K6+680 | K6+700 | K6+720 | K6+740 | K6+760 | K6+780 | K6+800 | K6+820 | K6+840 | K6+860 | K6+880 | K6+900 | K6+920 | K6+940 | K6+960 | K6+980 | K7+000 | K7+020 | K7+040 | K7+060 | K7+080 | K7+100 | K7+120 | K7+140 | K7+160 | K7+180 | K7+200 | K7+220 | K7+240 | K7+260 | K7+280 | K7+300 | K7+320 | K7+340 | K7+360 | K7+380 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cota de Terreno | 9.465m | 9.526m | 9.581m | 9.576m | 9.630m | 9.639m | 9.653m | 9.723m | 9.722m | 9.719m | 9.766m | 9.790m | 9.797m | 9.845m | 9.879m | 9.910m | 9.931m | 9.966m | 9.983m | 9.993m | 10.012m | 10.056m | 10.072m | 10.098m | 10.126m | 10.134m | 10.158m | 10.164m | 10.162m | 10.207m | 10.234m | 10.261m | 10.298m | 10.322m | 10.374m | 10.369m | 10.389m | 10.428m | 10.476m | 10.483m | 10.490m | 10.492m | 10.524m |
| Cota de Diseño | 8.235m | 8.274m | 8.313m | 8.352m | 8.391m | 8.430m | 8.469m | 8.508m | 8.547m | 8.586m | 8.625m | 8.664m | 8.703m | 8.742m | 8.781m | 8.820m | 8.858m | 8.897m | 8.936m | 8.975m | 9.014m | 9.053m | 9.092m | 9.131m | 9.170m | 9.209m | 9.248m | 9.287m | 9.326m | 9.365m | 9.404m | 9.443m | 9.482m | 9.520m | 9.559m | 9.598m | 9.637m | 9.676m | 9.715m | 9.754m | 9.793m | 9.832m | 9.871m |

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

Universidad del Magdalena 1958

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 02 - PLANTA Y PERFIL

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

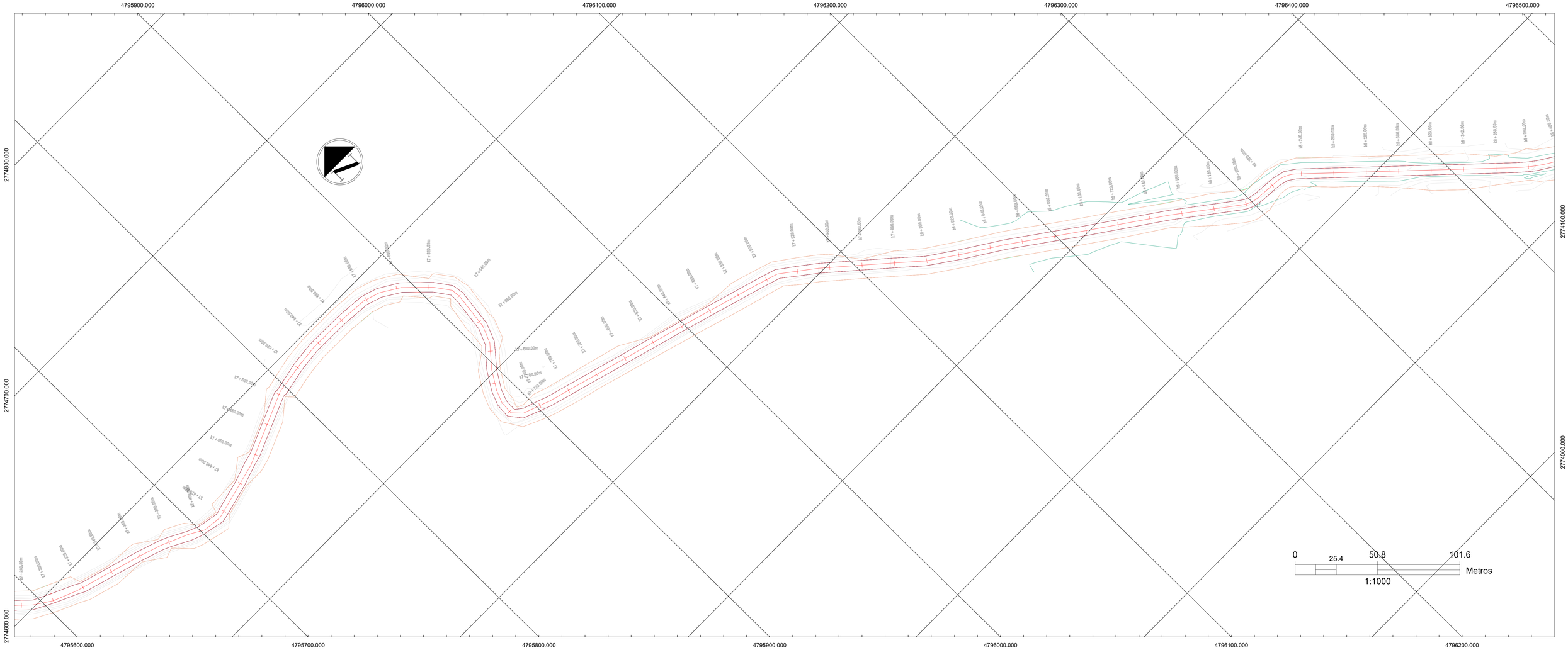
ENERO DE 2025

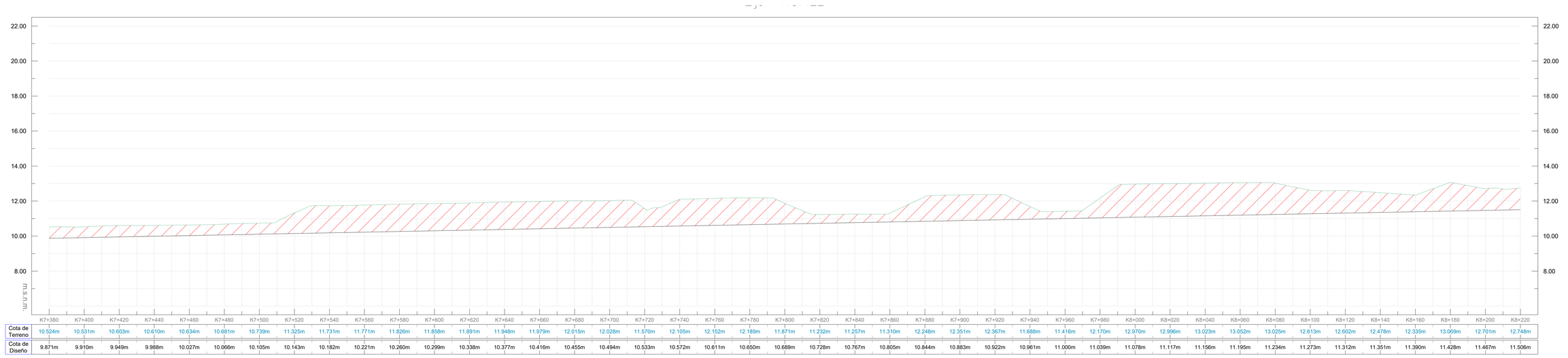
**ESCALA:**

PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

**02**
DE 14




| | K7+380 | K7+400 | K7+420 | K7+440 | K7+460 | K7+480 | K7+500 | K7+520 | K7+540 | K7+560 | K7+580 | K7+600 | K7+620 | K7+640 | K7+660 | K7+680 | K7+700 | K7+720 | K7+740 | K7+760 | K7+780 | K7+800 | K7+820 | K7+840 | K7+860 | K7+880 | K7+900 | K7+920 | K7+940 | K7+960 | K7+980 | K8+000 | K8+020 | K8+040 | K8+060 | K8+080 | K8+100 | K8+120 | K8+140 | K8+160 | K8+180 | K8+200 | K8+220 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cota de Terreno | 10.524m | 10.531m | 10.603m | 10.610m | 10.634m | 10.681m | 10.739m | 11.325m | 11.731m | 11.771m | 11.826m | 11.858m | 11.891m | 11.948m | 11.979m | 12.015m | 12.028m | 11.570m | 12.105m | 12.152m | 12.189m | 11.871m | 11.232m | 11.257m | 11.310m | 12.246m | 12.351m | 12.367m | 11.688m | 11.416m | 12.170m | 12.970m | 12.996m | 13.023m | 13.052m | 13.025m | 12.613m | 12.602m | 12.478m | 12.335m | 13.069m | 12.701m | 12.748m |
| Cota de Diseño | 9.871m | 9.910m | 9.949m | 9.988m | 10.027m | 10.066m | 10.105m | 10.143m | 10.182m | 10.221m | 10.260m | 10.299m | 10.338m | 10.377m | 10.416m | 10.455m | 10.494m | 10.533m | 10.572m | 10.611m | 10.650m | 10.689m | 10.728m | 10.767m | 10.805m | 10.844m | 10.883m | 10.922m | 10.961m | 11.000m | 11.039m | 11.078m | 11.117m | 11.156m | 11.195m | 11.234m | 11.273m | 11.312m | 11.351m | 11.390m | 11.428m | 11.467m | 11.506m |

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

UNIVERSIDAD DEL MAGDALENA
1964

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 03 - PLANTA Y PERFIL

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

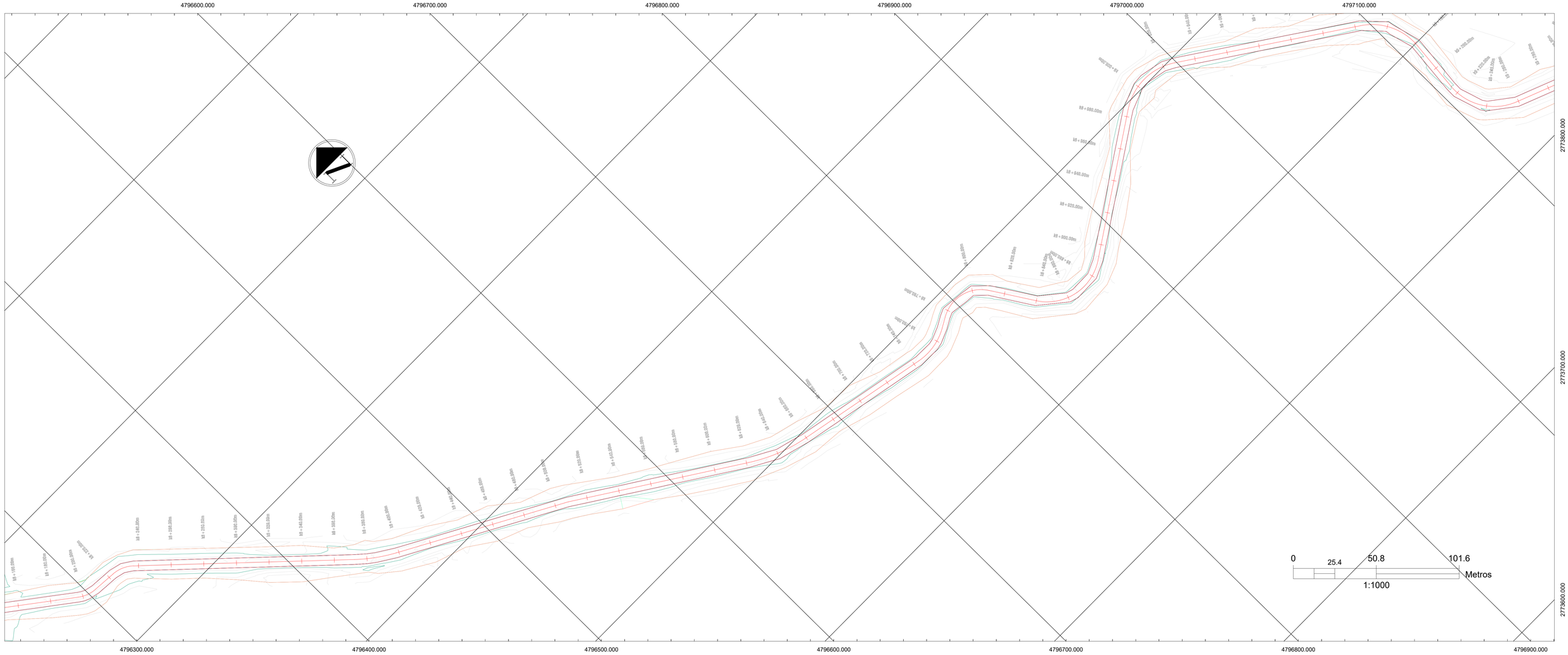
ENERO DE 2025

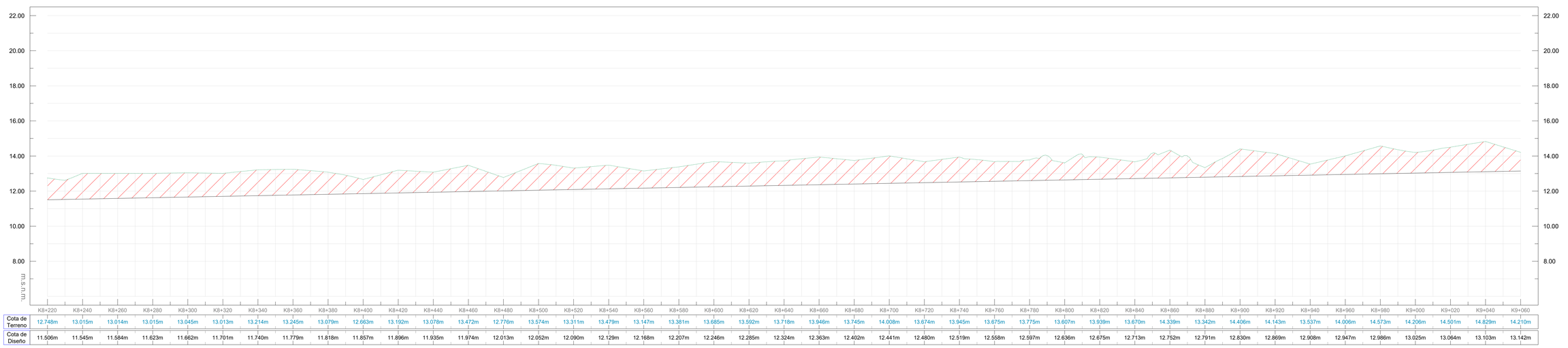
**ESCALA:**

PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

**03**
DE 14




| | K8+220 | K8+240 | K8+260 | K8+280 | K8+300 | K8+320 | K8+340 | K8+360 | K8+380 | K8+400 | K8+420 | K8+440 | K8+460 | K8+480 | K8+500 | K8+520 | K8+540 | K8+560 | K8+580 | K8+600 | K8+620 | K8+640 | K8+660 | K8+680 | K8+700 | K8+720 | K8+740 | K8+760 | K8+780 | K8+800 | K8+820 | K8+840 | K8+860 | K8+880 | K8+900 | K8+920 | K8+940 | K8+960 | K8+980 | K9+000 | K9+020 | K9+040 | K9+060 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cota de Terreno | 12.748m | 13.015m | 13.014m | 13.015m | 13.045m | 13.013m | 13.214m | 13.245m | 13.079m | 12.663m | 13.192m | 13.078m | 13.472m | 12.776m | 13.574m | 13.311m | 13.479m | 13.147m | 13.381m | 13.685m | 13.592m | 13.718m | 13.946m | 13.745m | 14.008m | 13.674m | 13.945m | 13.675m | 13.775m | 13.607m | 13.939m | 13.670m | 14.339m | 13.342m | 14.406m | 14.143m | 13.537m | 14.006m | 14.573m | 14.206m | 14.501m | 14.829m | 14.210m |
| Cota de Diseño | 11.506m | 11.545m | 11.584m | 11.623m | 11.662m | 11.701m | 11.740m | 11.779m | 11.818m | 11.857m | 11.896m | 11.935m | 11.974m | 12.013m | 12.052m | 12.090m | 12.129m | 12.168m | 12.207m | 12.246m | 12.285m | 12.324m | 12.363m | 12.402m | 12.441m | 12.480m | 12.519m | 12.558m | 12.597m | 12.636m | 12.675m | 12.713m | 12.752m | 12.791m | 12.830m | 12.869m | 12.908m | 12.947m | 12.986m | 13.025m | 13.064m | 13.103m | 13.142m |

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

Universidad del Magdalena 1962

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 04 - PLANTA Y PERFIL

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

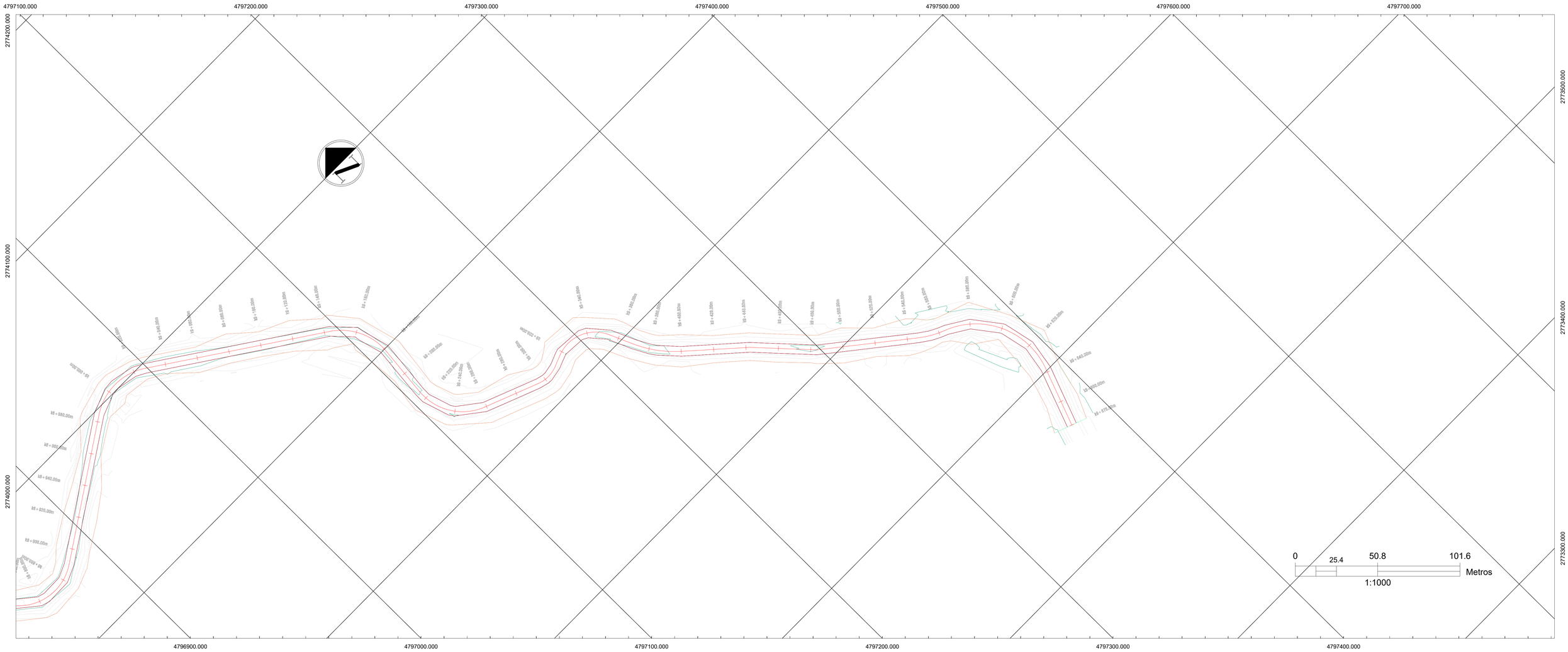
ENERO DE 2025

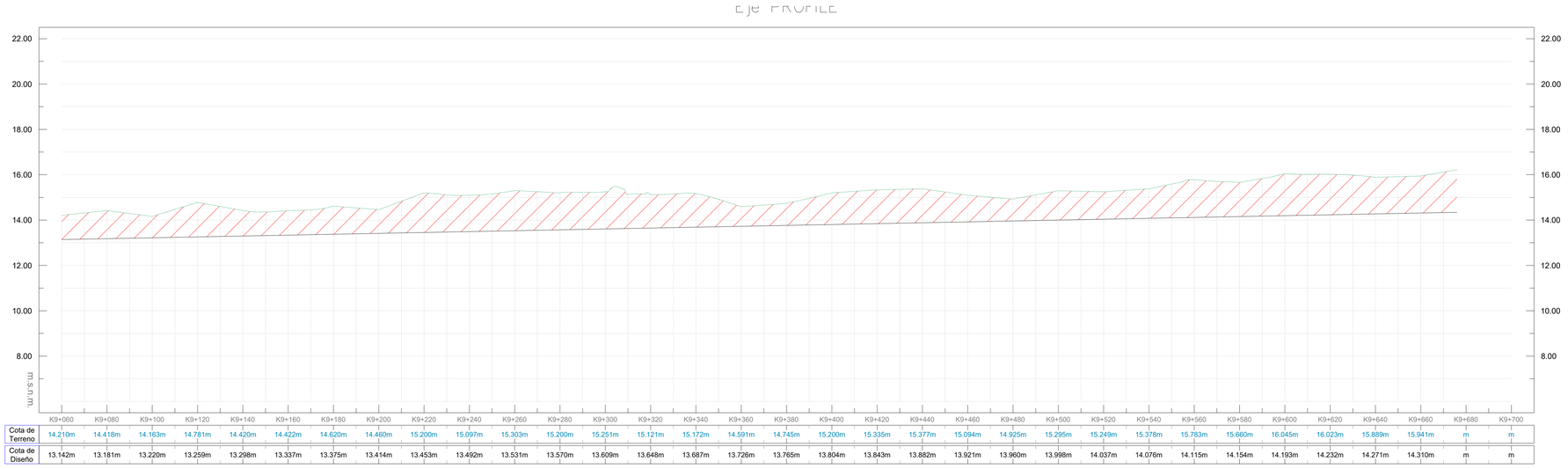
**ESCALA:**

PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

**04**
DE 14




| | K9+060 | K9+080 | K9+100 | K9+120 | K9+140 | K9+160 | K9+180 | K9+200 | K9+220 | K9+240 | K9+260 | K9+280 | K9+300 | K9+320 | K9+340 | K9+360 | K9+380 | K9+400 | K9+420 | K9+440 | K9+460 | K9+480 | K9+500 | K9+520 | K9+540 | K9+560 | K9+580 | K9+600 | K9+620 | K9+640 | K9+660 | K9+680 | K9+700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cota de Terreno | 14.210m | 14.418m | 14.163m | 14.781m | 14.420m | 14.422m | 14.620m | 14.460m | 15.200m | 15.097m | 15.303m | 15.200m | 15.251m | 15.121m | 15.172m | 14.591m | 14.745m | 15.200m | 15.335m | 15.377m | 15.094m | 14.925m | 15.295m | 15.249m | 15.378m | 15.783m | 15.660m | 16.045m | 16.023m | 15.889m | 15.941m | m | m |
| Cota de Diseño | 13.142m | 13.181m | 13.220m | 13.259m | 13.298m | 13.337m | 13.375m | 13.414m | 13.453m | 13.492m | 13.531m | 13.570m | 13.609m | 13.648m | 13.687m | 13.726m | 13.765m | 13.804m | 13.843m | 13.882m | 13.921m | 13.960m | 13.998m | 14.037m | 14.076m | 14.115m | 14.154m | 14.193m | 14.232m | 14.271m | 14.310m | m | m |

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

Universidad del Magdalena 1962

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 05 - PLANTA Y PERFIL

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

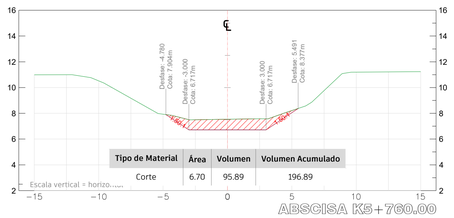
ENERO DE 2025

**ESCALA:**

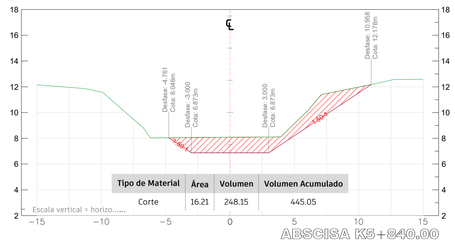
PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

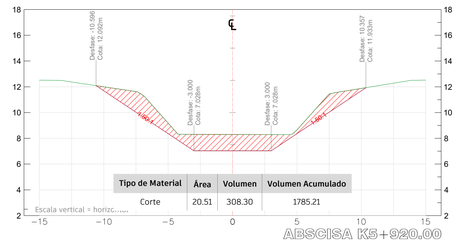
**05**
DE 14



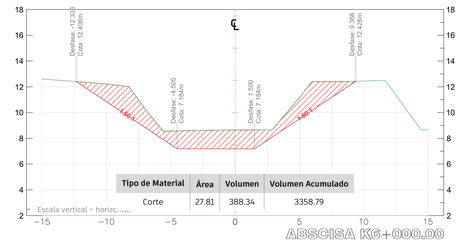

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 6.70 | 95.89 | 196.89 |



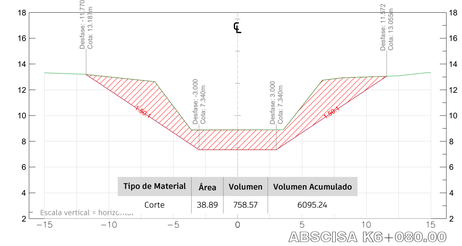

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 16.21 | 248.15 | 445.05 |



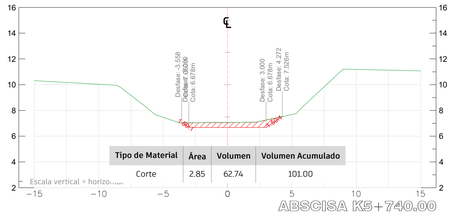

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 20.51 | 308.30 | 1785.21 |



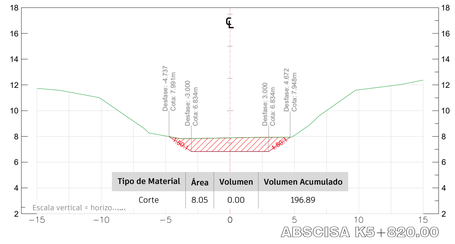

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 27.81 | 388.34 | 3358.79 |



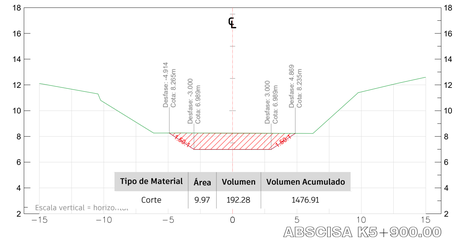

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 38.89 | 758.57 | 6095.24 |



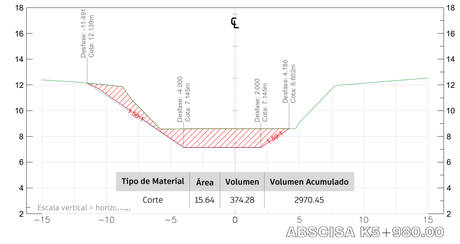

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 2.85 | 62.74 | 101.00 |



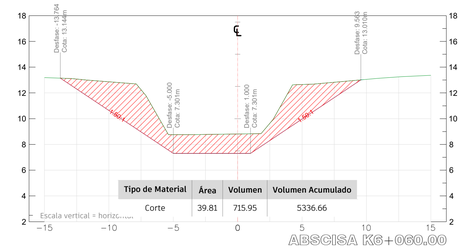

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 8.05 | 0.00 | 196.89 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 9.97 | 192.28 | 1476.91 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 15.64 | 374.28 | 2970.45 |



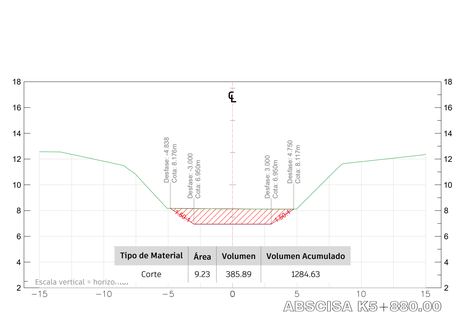

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 39.81 | 715.95 | 5336.66 |



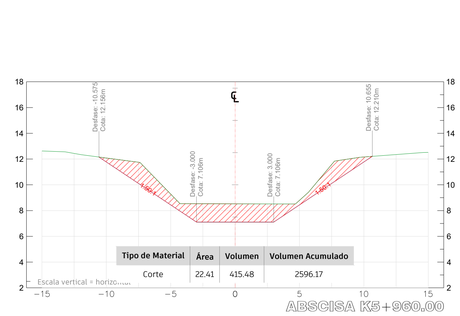

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 3.35 | 38.26 | 38.26 |



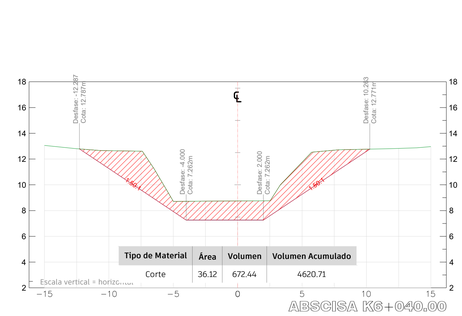

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 0.00 | 0.00 | 196.89 |



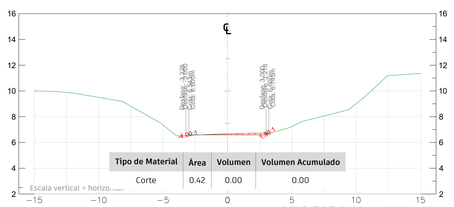

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 9.23 | 385.89 | 1284.63 |



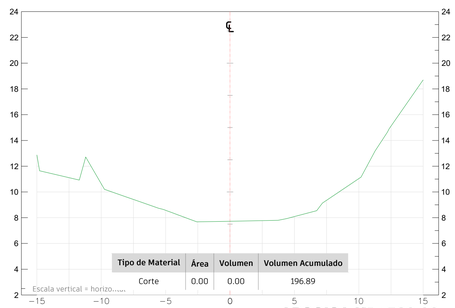

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 22.41 | 415.48 | 2596.17 |



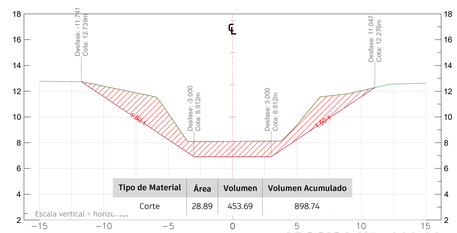

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 36.12 | 672.44 | 4620.71 |



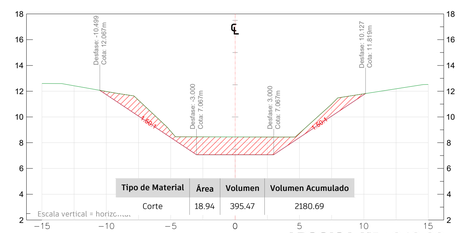

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 0.42 | 0.00 | 0.00 |



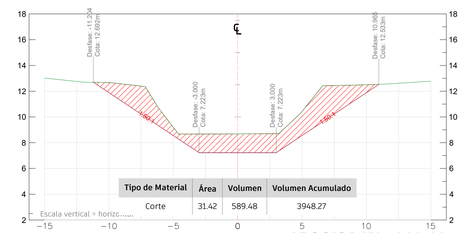

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 0.00 | 0.00 | 196.89 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 28.89 | 453.69 | 898.74 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 18.94 | 395.47 | 2180.69 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 31.42 | 589.48 | 3948.27 |

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

Universidad del Magdalena 1962

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 06 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

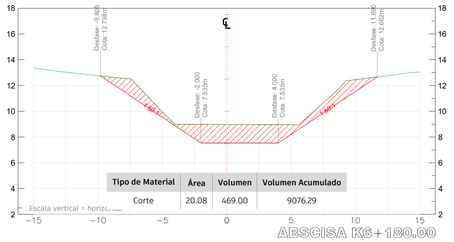
ENERO DE 2025

**ESCALA:**

PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

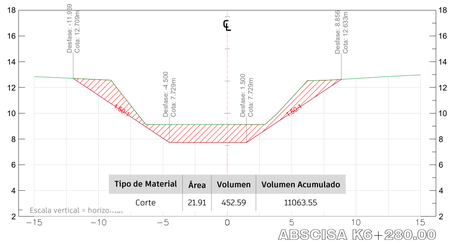
**06**
DE 14




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 20.08 | 469.00 | 9076.29 |

Escala vertical = horizo.....

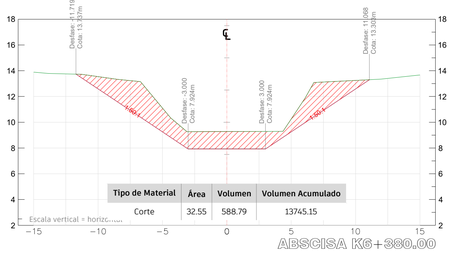
ABSCISA K6+180.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 21.91 | 452.59 | 11063.55 |

Escala vertical = horizo.....

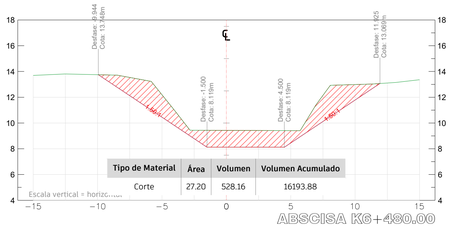
ABSCISA K6+280.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 32.55 | 588.79 | 13745.15 |

Escala vertical = horizo.....

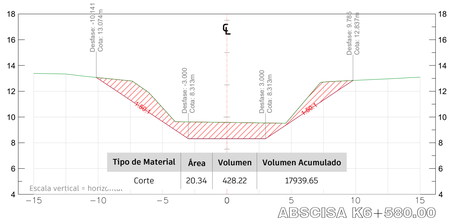
ABSCISA K6+380.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 27.20 | 528.16 | 16193.88 |

Escala vertical = horizo.....

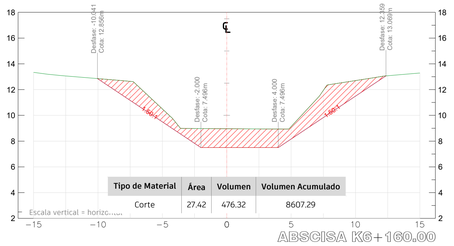
ABSCISA K6+480.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 20.34 | 428.22 | 17939.65 |

Escala vertical = horizo.....

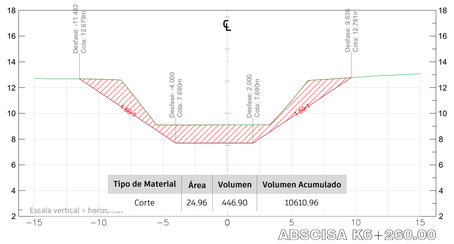
ABSCISA K6+580.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 27.42 | 476.32 | 8607.29 |

Escala vertical = horizo.....

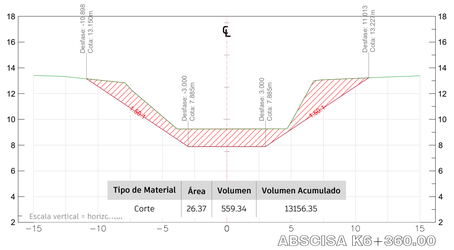
ABSCISA K6+160.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 24.96 | 446.90 | 10610.96 |

Escala vertical = horizo.....

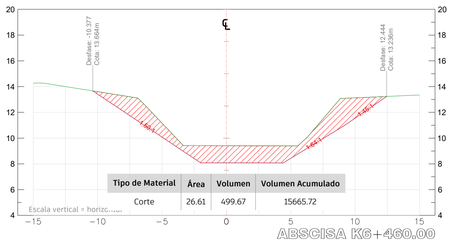
ABSCISA K6+260.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 26.37 | 559.34 | 13156.35 |

Escala vertical = horizo.....

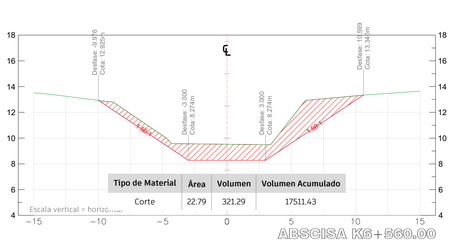
ABSCISA K6+360.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 26.61 | 499.67 | 15665.72 |

Escala vertical = horizo.....

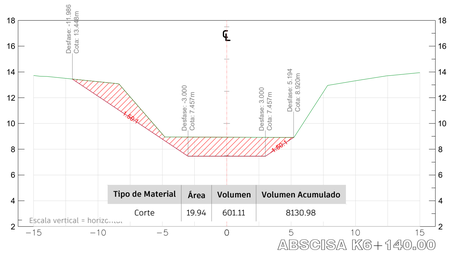
ABSCISA K6+460.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 22.79 | 321.29 | 17511.43 |

Escala vertical = horizo.....

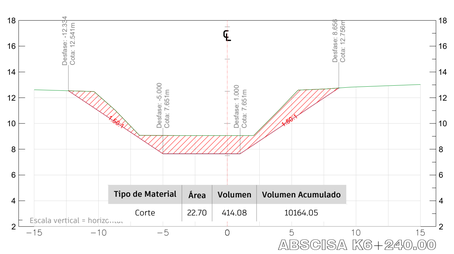
ABSCISA K6+560.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 19.94 | 601.11 | 8130.98 |

Escala vertical = horizo.....

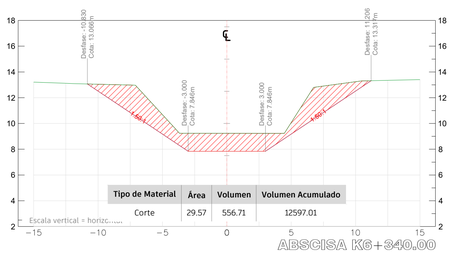
ABSCISA K6+140.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 22.70 | 414.08 | 10164.05 |

Escala vertical = horizo.....

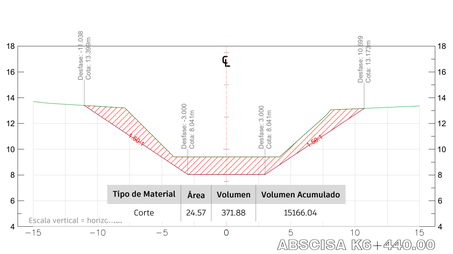
ABSCISA K6+240.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 29.57 | 556.71 | 12597.01 |

Escala vertical = horizo.....

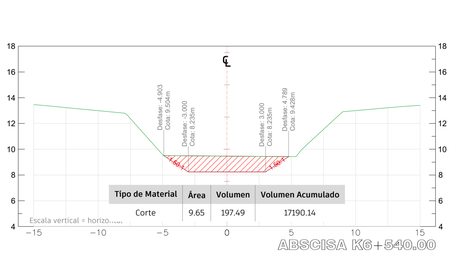
ABSCISA K6+340.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 24.57 | 371.88 | 15166.04 |

Escala vertical = horizo.....

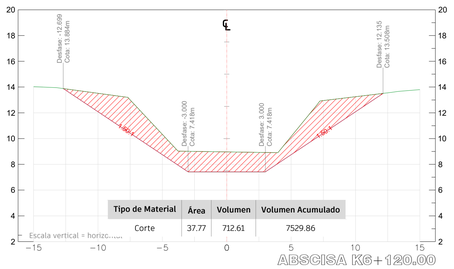
ABSCISA K6+440.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 9.65 | 197.49 | 17190.14 |

Escala vertical = horizo.....

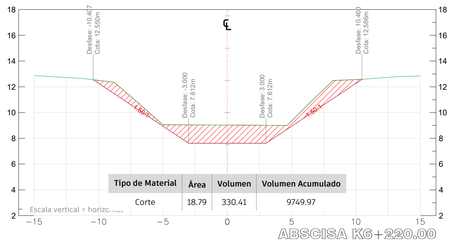
ABSCISA K6+540.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 37.77 | 712.61 | 7529.86 |

Escala vertical = horizo.....

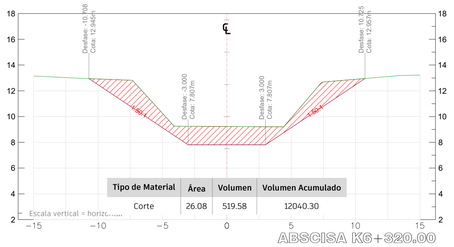
ABSCISA K6+120.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 18.79 | 330.41 | 9749.97 |

Escala vertical = horizo.....

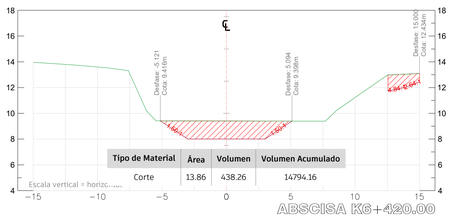
ABSCISA K6+220.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 26.08 | 519.58 | 12040.30 |

Escala vertical = horizo.....

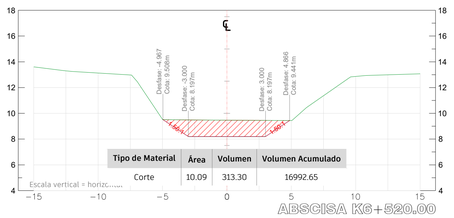
ABSCISA K6+320.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 13.86 | 438.26 | 14794.16 |

Escala vertical = horizo.....

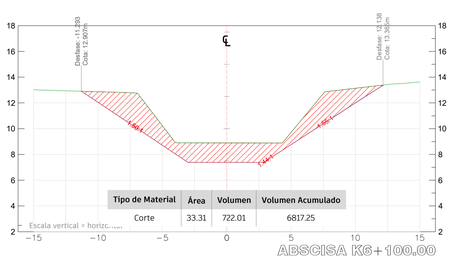
ABSCISA K6+420.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 10.09 | 313.30 | 16992.65 |

Escala vertical = horizo.....

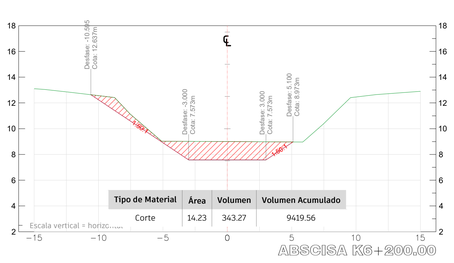
ABSCISA K6+520.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 33.31 | 722.01 | 6817.25 |

Escala vertical = horizo.....

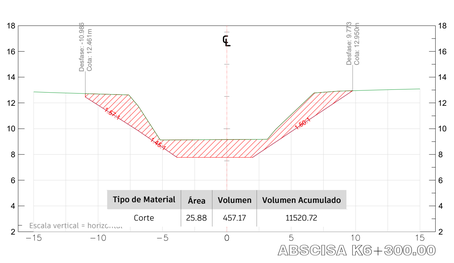
ABSCISA K6+100.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 14.23 | 343.27 | 9419.56 |

Escala vertical = horizo.....

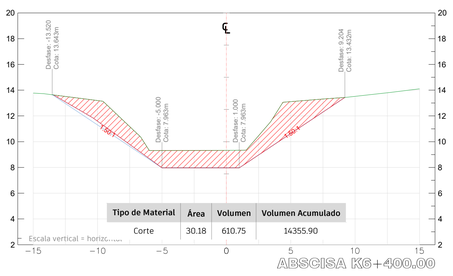
ABSCISA K6+200.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 25.88 | 457.17 | 11520.72 |

Escala vertical = horizo.....

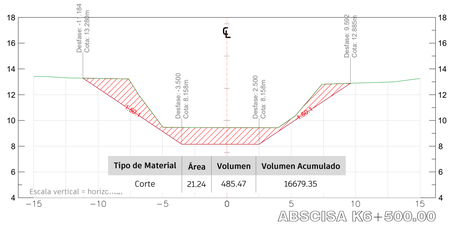
ABSCISA K6+300.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 30.18 | 610.75 | 14355.90 |

Escala vertical = horizo.....

ABSCISA K6+400.00




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 21.24 | 485.47 | 16679.35 |

Escala vertical = horizo.....

ABSCISA K6+500.00

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

Universidad del Magdalena

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 07 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

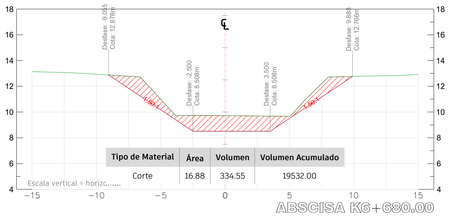
ENERO DE 2025

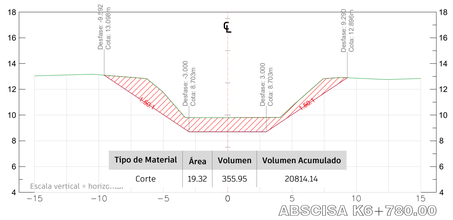
**ESCALA:**

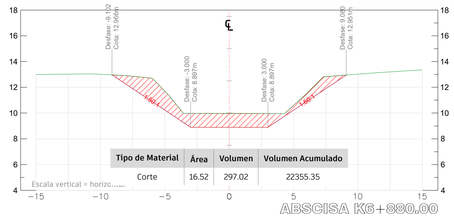
PLANTA 1 : 1000
SECCIONES 1 : 200

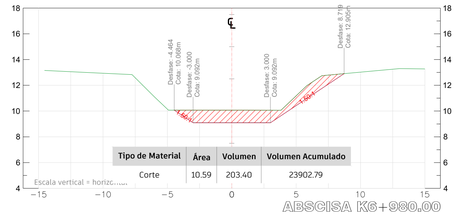
**NÚMERO DE PLANO:**

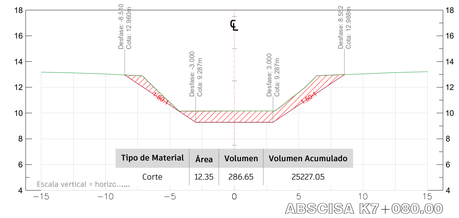
**07**
DE 14

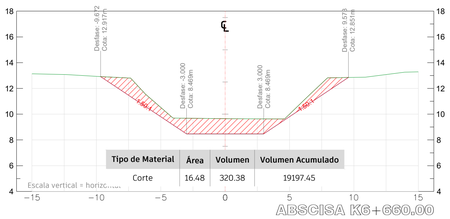


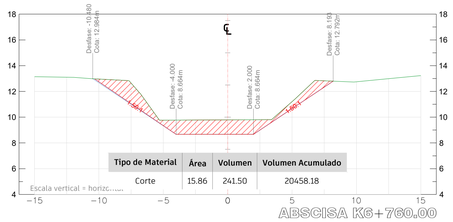



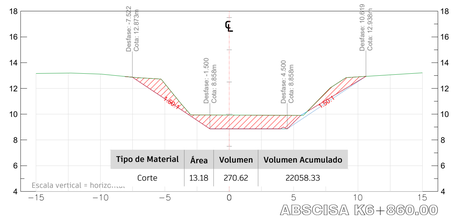



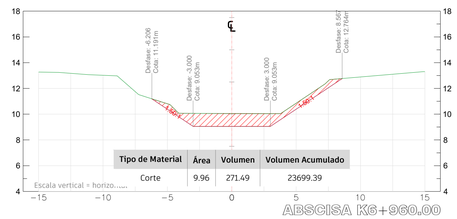



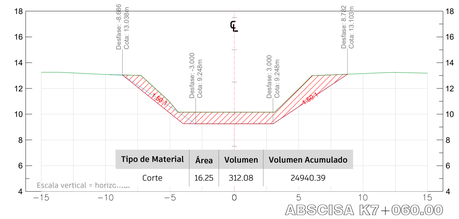



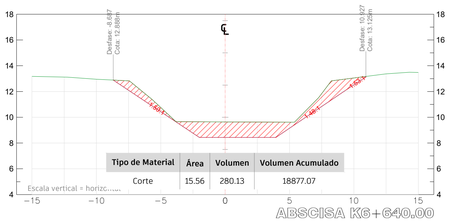



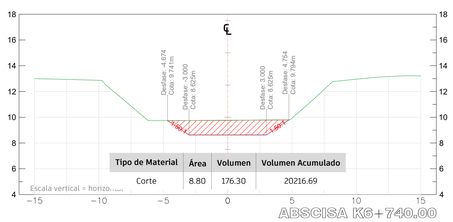



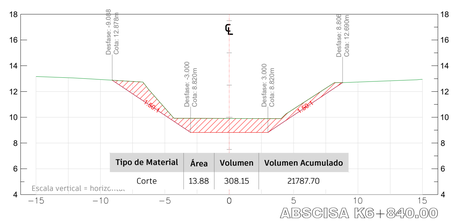



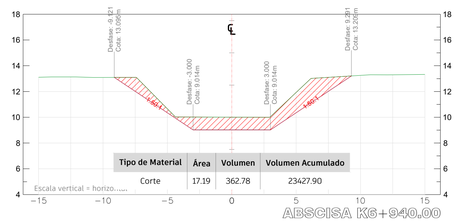



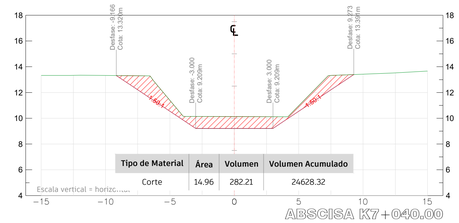



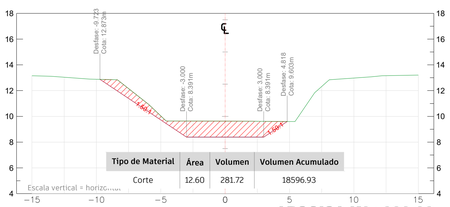



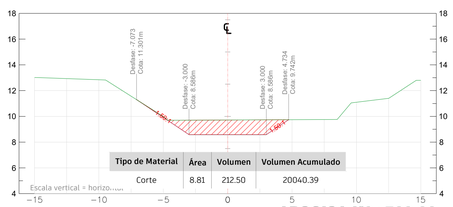



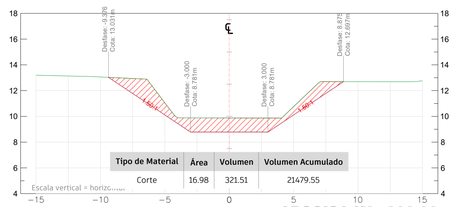



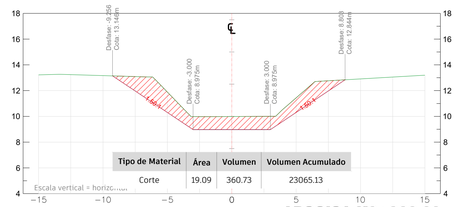



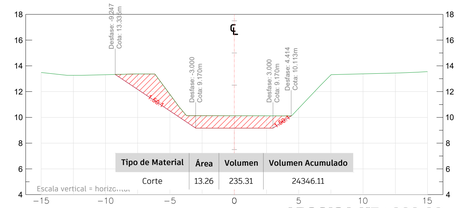



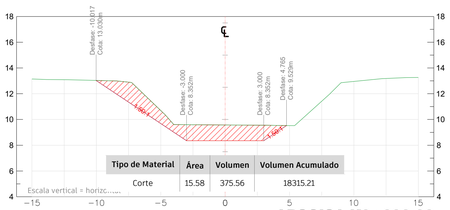



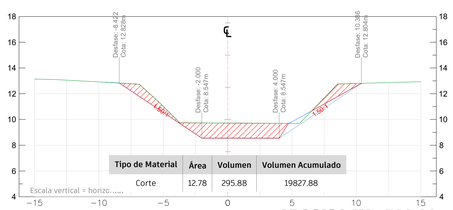



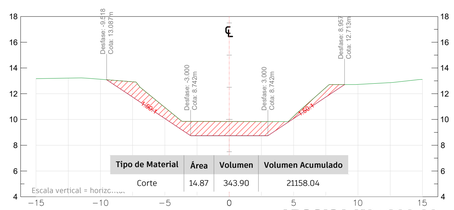



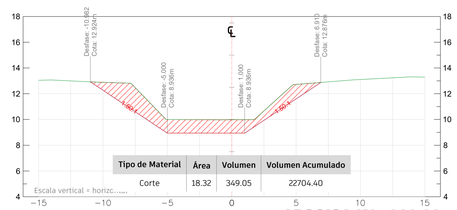



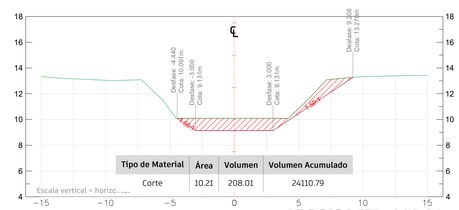




**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

UNIVERSIDAD DEL MAGDALENA 1958

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 08 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

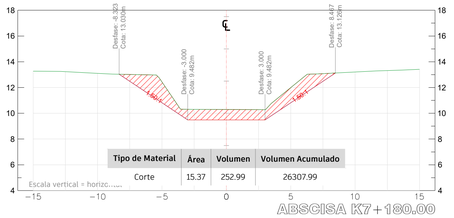
ENERO DE 2025

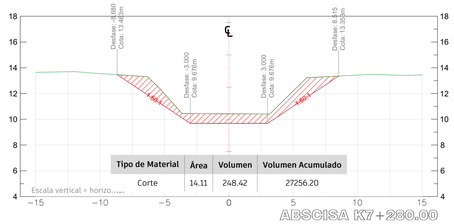
**ESCALA:**

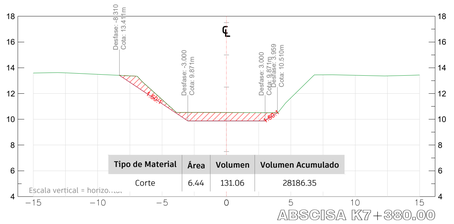
PLANTA 1 : 1000
SECCIONES 1 : 200

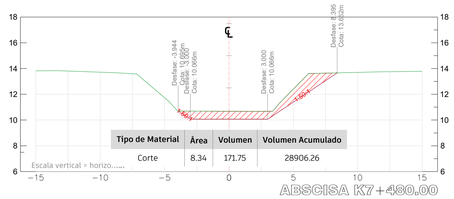
**NÚMERO DE PLANO:**

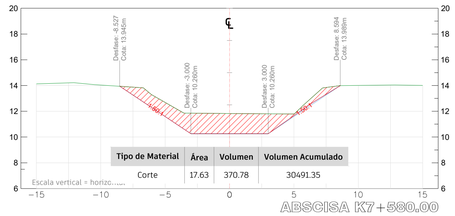
**08**
DE 14

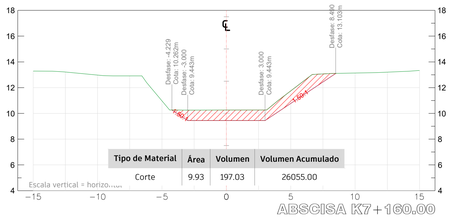


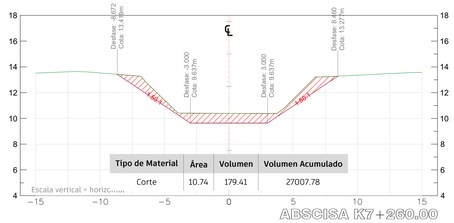



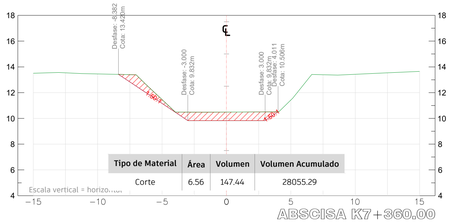



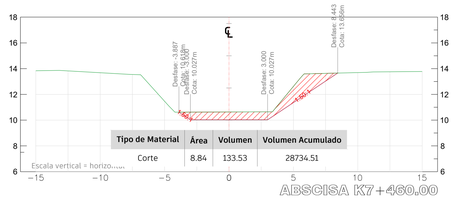



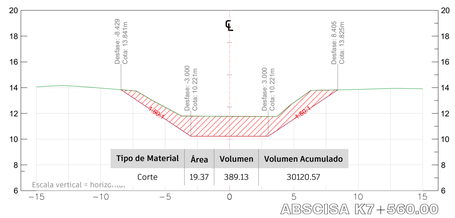



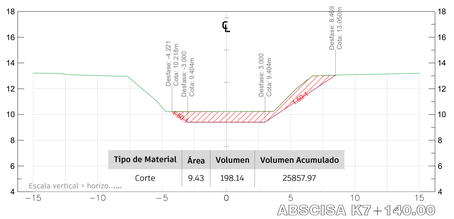



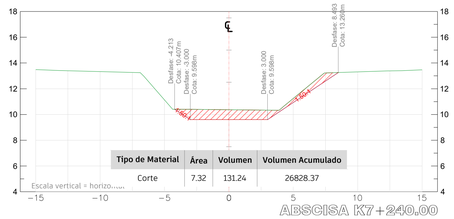



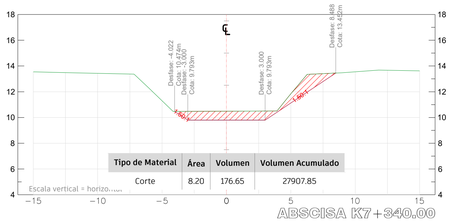



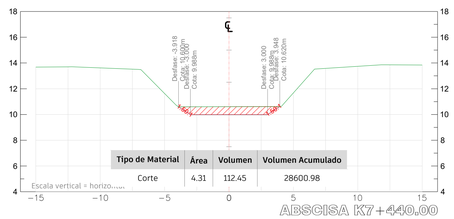



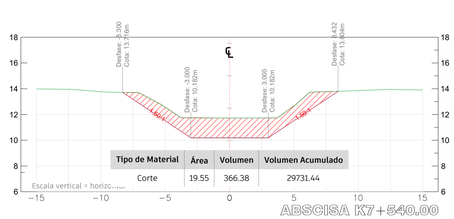



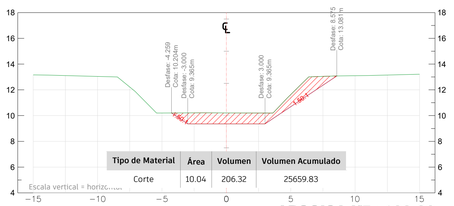



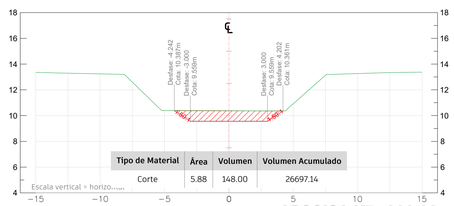



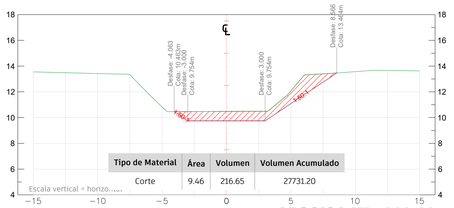



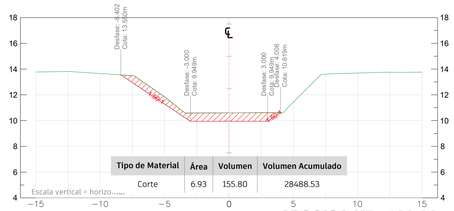



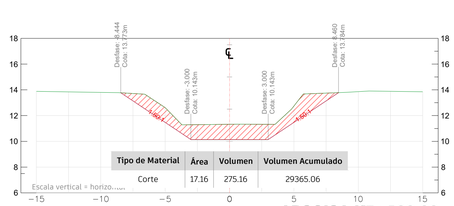



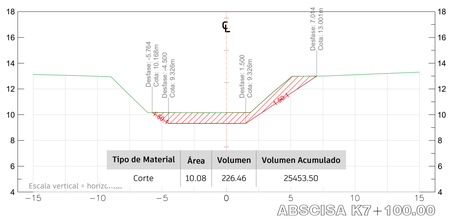



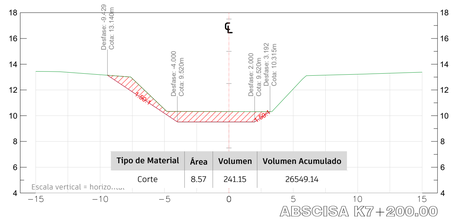



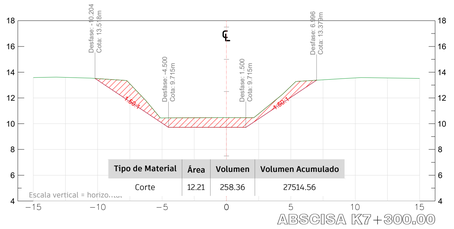



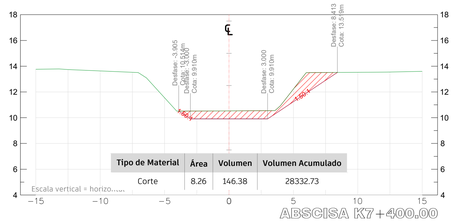



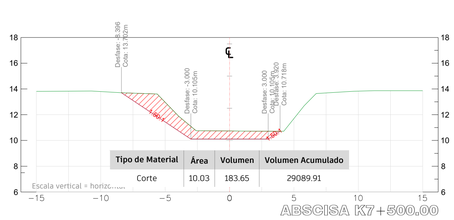




**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

UNIVERSIDAD DEL MAGDALENA

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 09 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

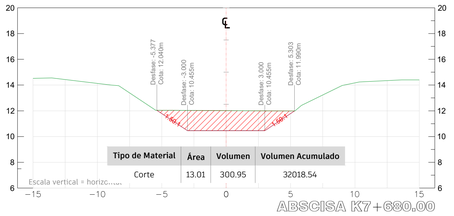
ENERO DE 2025

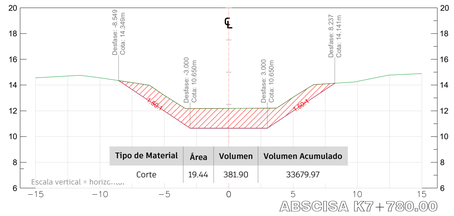
**ESCALA:**

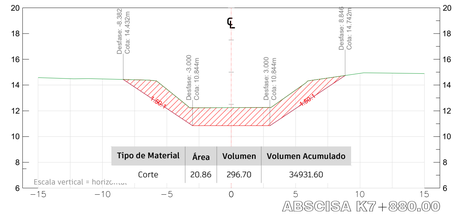
PLANTA 1 : 1000
SECCIONES 1 : 200

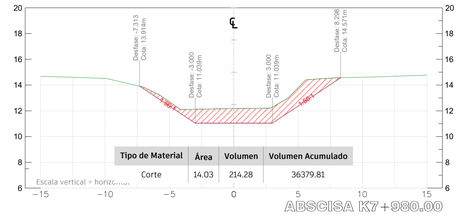
**NÚMERO DE PLANO:**

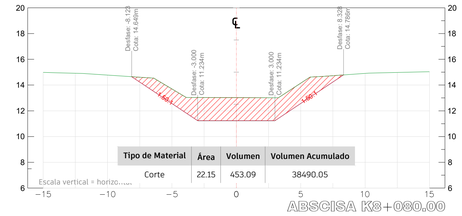
**09**
DE 14

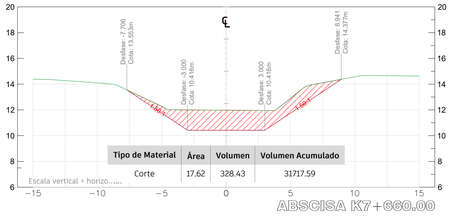


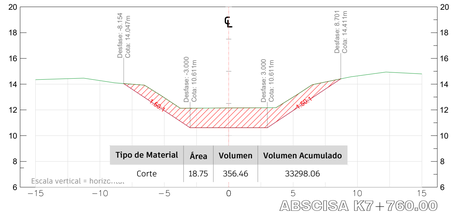



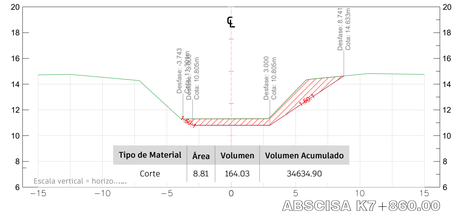



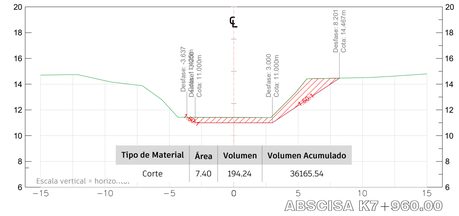



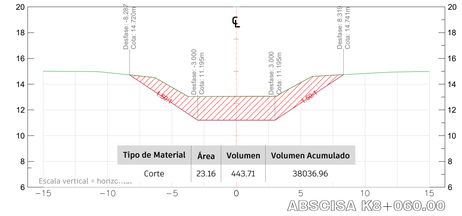



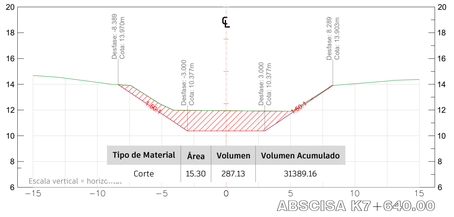



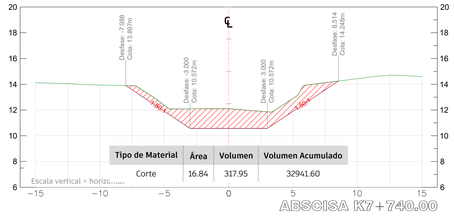



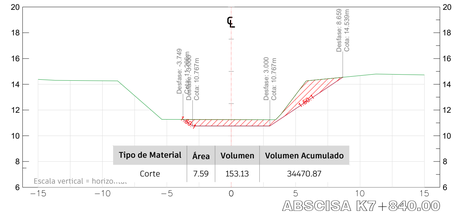



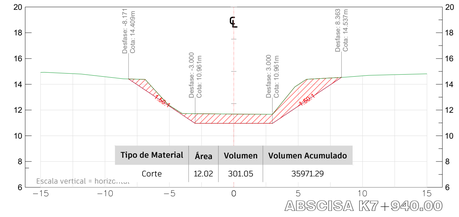



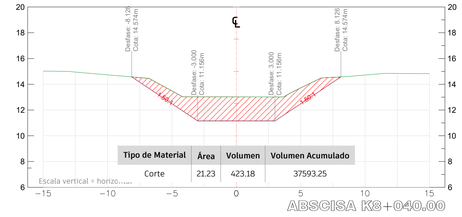



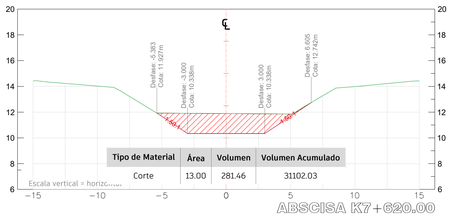



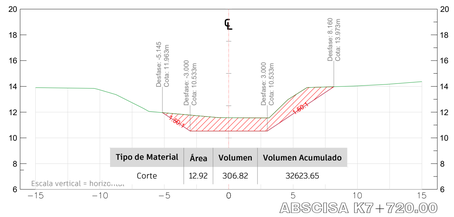



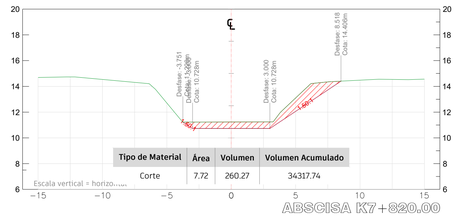



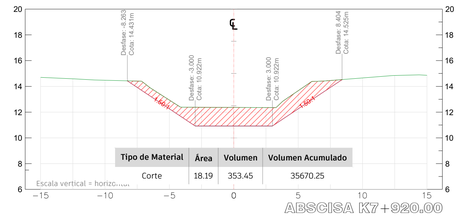



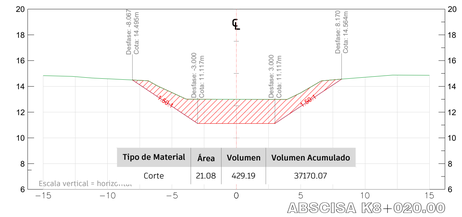



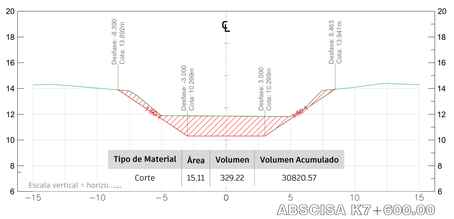



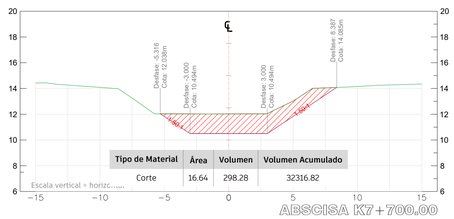



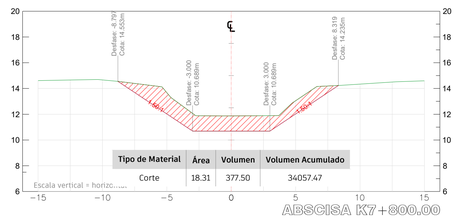



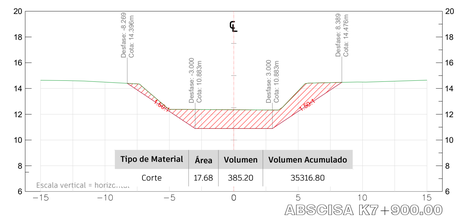



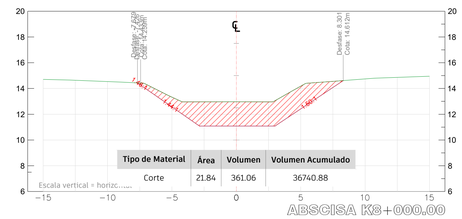




**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

UNIVERSIDAD DEL MAGDALENA
1964

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 10 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

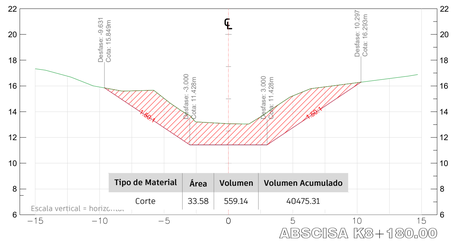
ENERO DE 2025

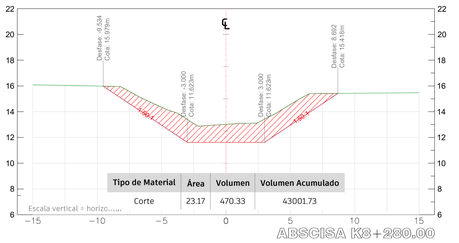
**ESCALA:**

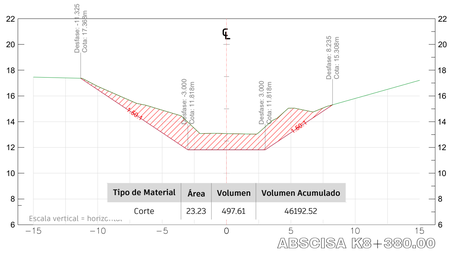
PLANTA 1 : 1000
SECCIONES 1 : 200

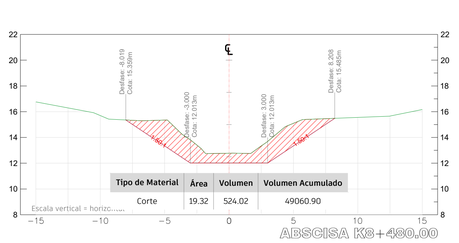
**NÚMERO DE PLANO:**

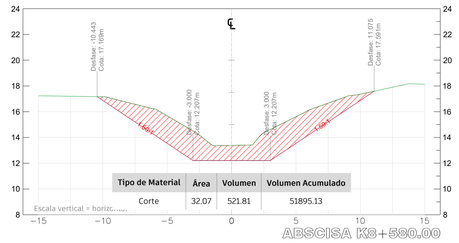
**10**
DE 14

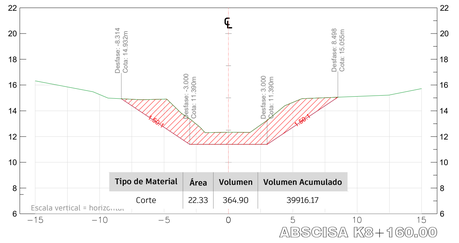


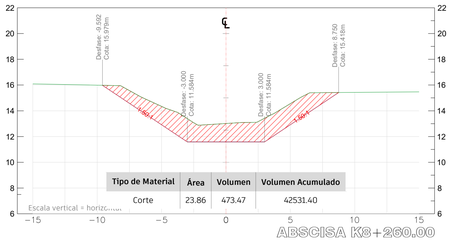



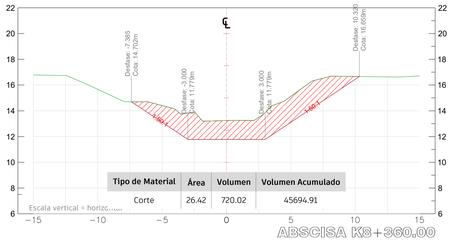



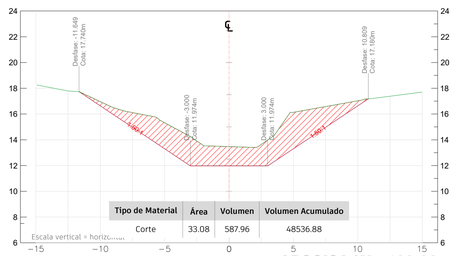



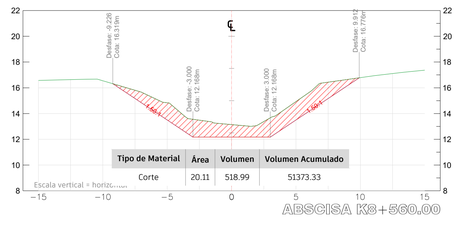



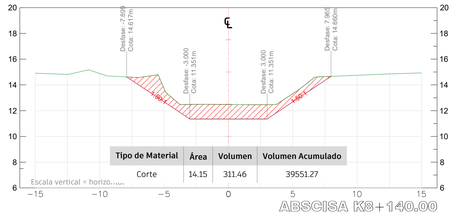



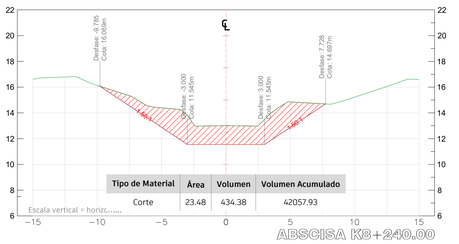



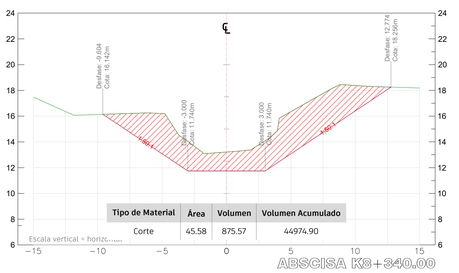



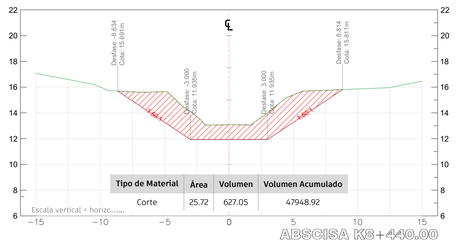



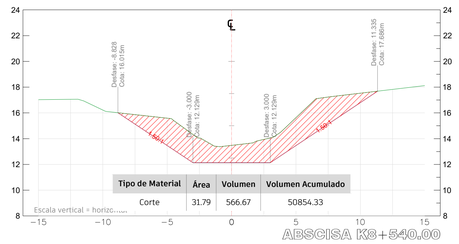



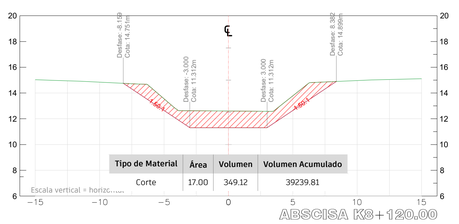



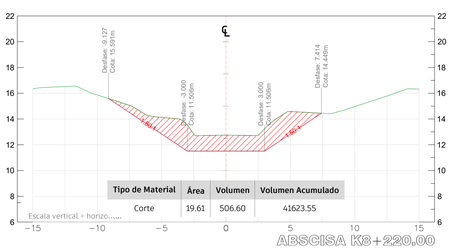



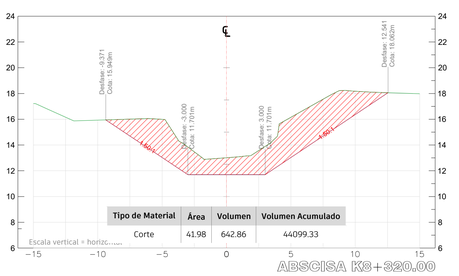



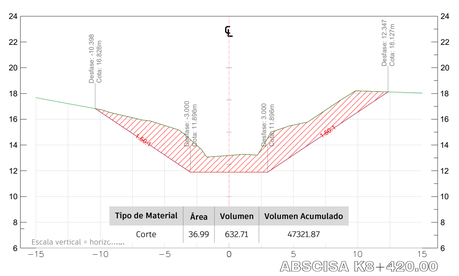



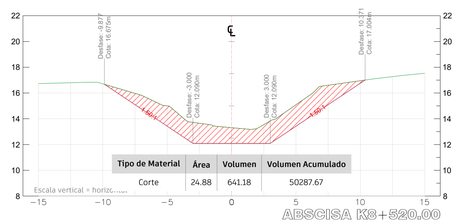



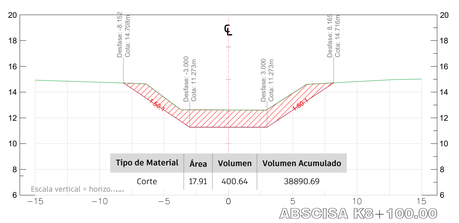



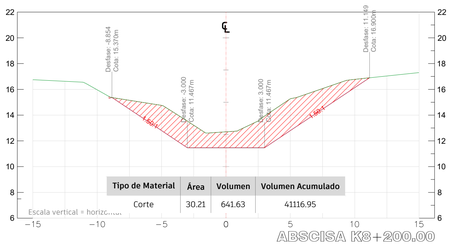



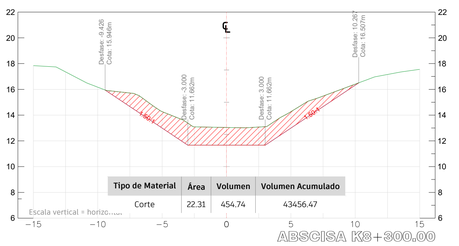



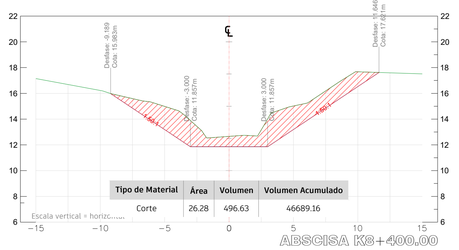



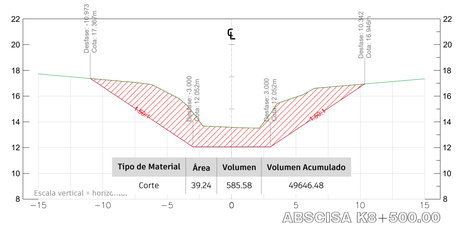




**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

UNIVERSIDAD DEL MAGDALENA

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 11 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

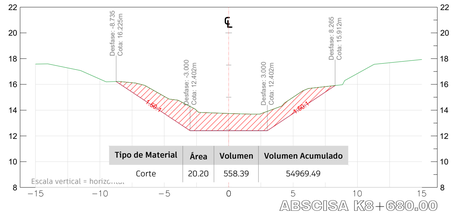
ENERO DE 2025

**ESCALA:**

PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

**11**
DE 14




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
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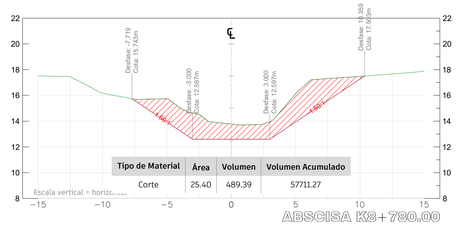
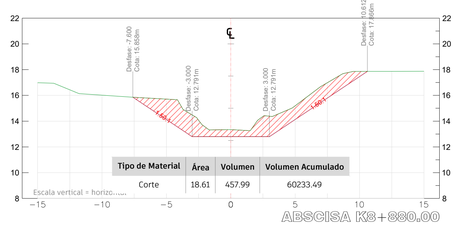
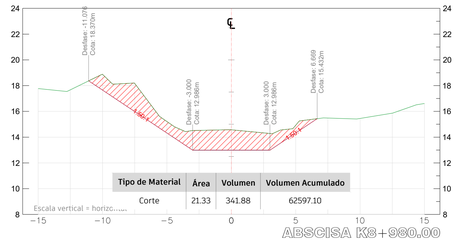


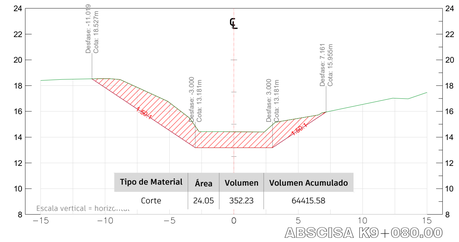

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 25.40 | 489.39 | 57711.27 |



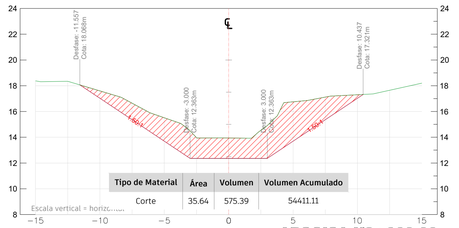

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 18.61 | 457.99 | 60233.49 |



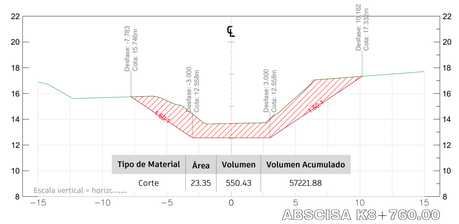

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 21.33 | 341.88 | 62597.10 |



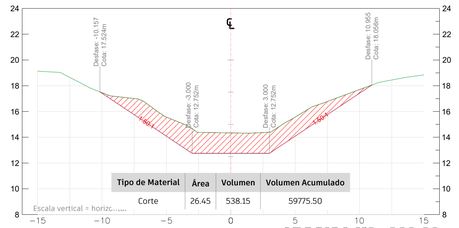

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 24.05 | 352.23 | 64415.58 |



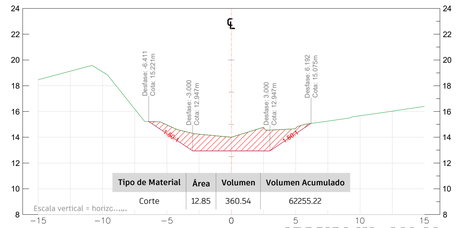

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 35.64 | 575.39 | 54411.11 |



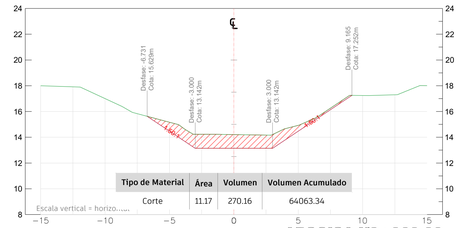

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 23.35 | 550.43 | 57221.88 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 26.45 | 538.15 | 59775.50 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 12.85 | 360.54 | 62255.22 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
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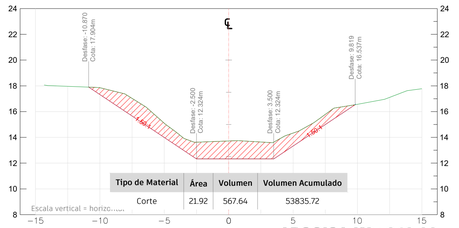


| Tipo de Material | Área | Volumen | Volumen Acumulado |
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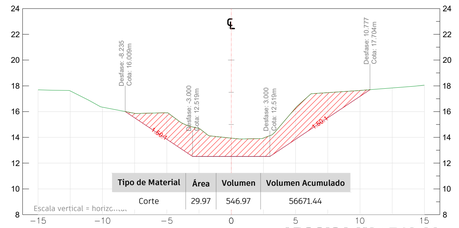
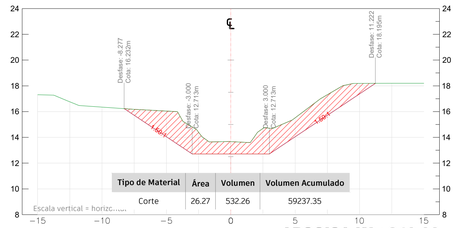
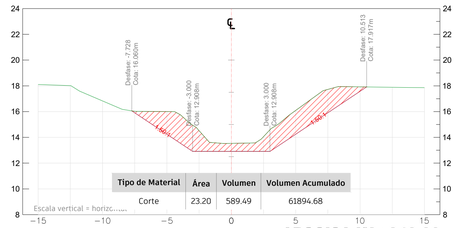
| Corte | 21.92 | 567.64 | 53835.72 |



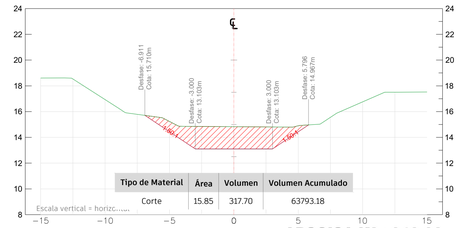

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 29.97 | 546.97 | 56671.44 |



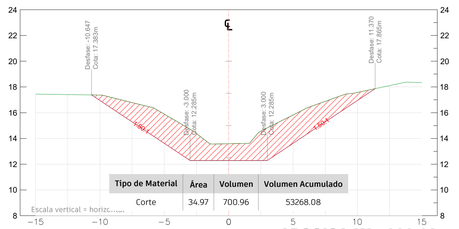

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 26.27 | 532.26 | 59237.35 |



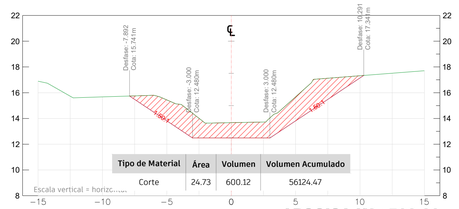

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 23.20 | 589.49 | 61894.68 |



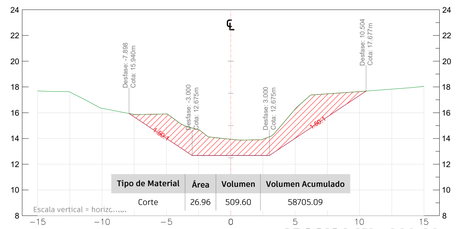

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 15.85 | 317.70 | 63793.18 |



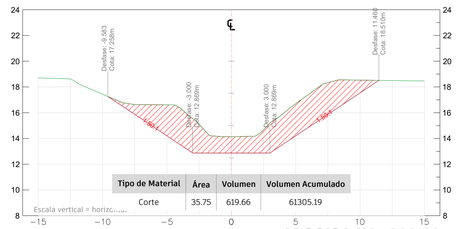

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 34.97 | 700.96 | 53268.08 |



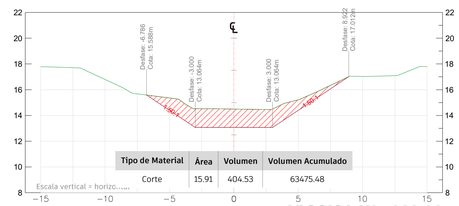

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 24.73 | 600.12 | 56124.47 |



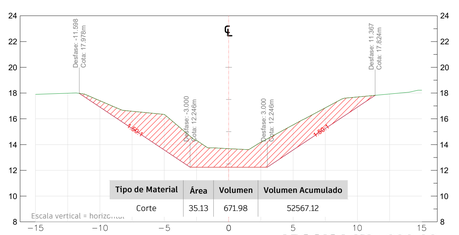

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 26.96 | 509.60 | 58705.09 |



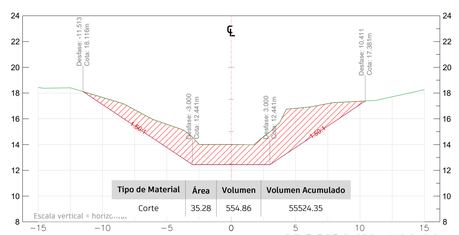

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 35.75 | 619.66 | 61305.19 |



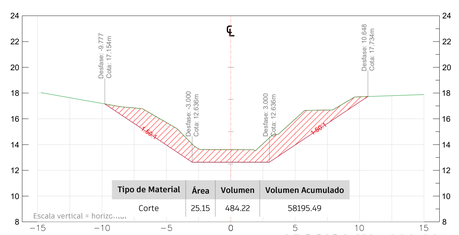

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 15.91 | 404.53 | 63475.48 |



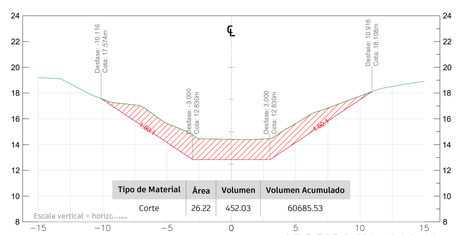

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 35.13 | 671.98 | 52567.12 |



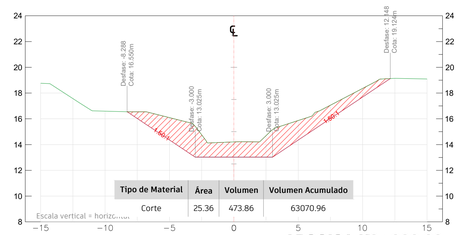

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 35.28 | 554.86 | 55524.35 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 25.15 | 484.22 | 58195.49 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 26.22 | 452.03 | 60685.53 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 25.36 | 473.86 | 63070.96 |

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

Universidad del Magdalena

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 12 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

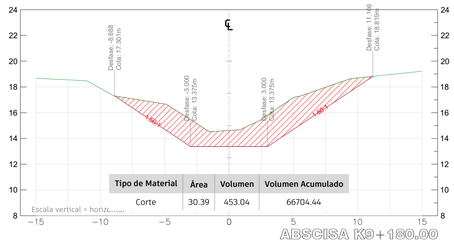
ENERO DE 2025

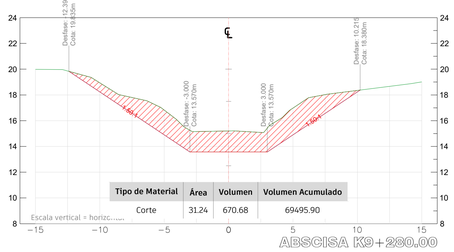
**ESCALA:**

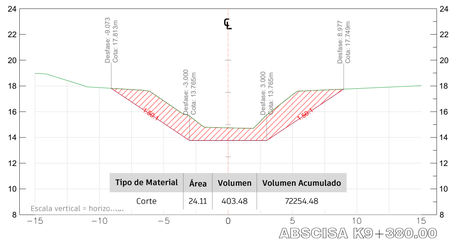
PLANTA 1 : 1000
SECCIONES 1 : 200

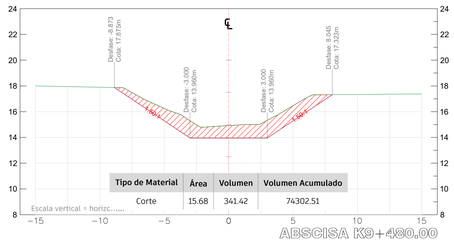
**NÚMERO DE PLANO:**

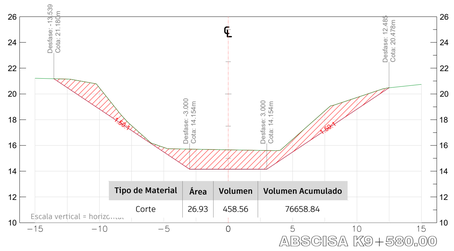
**12**
DE 14

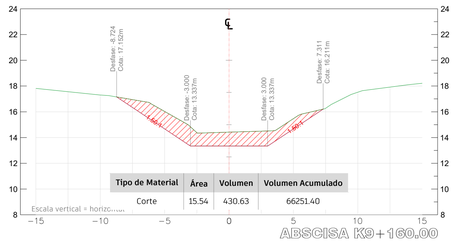


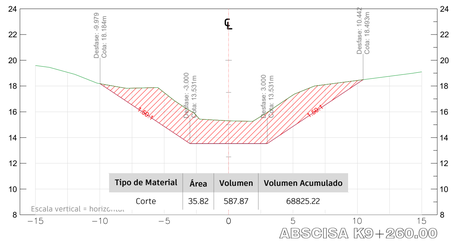



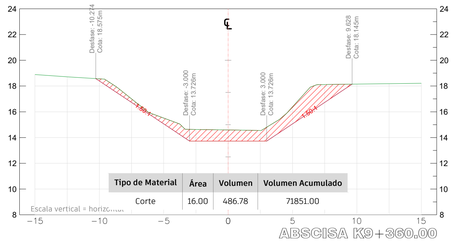



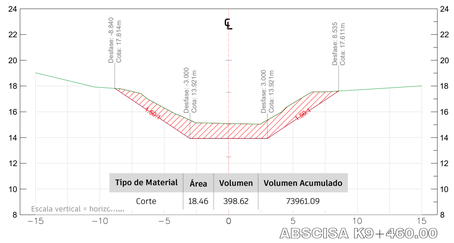



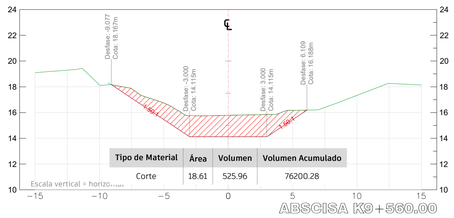



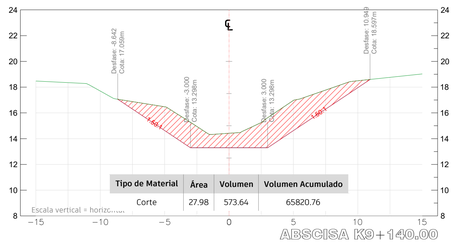



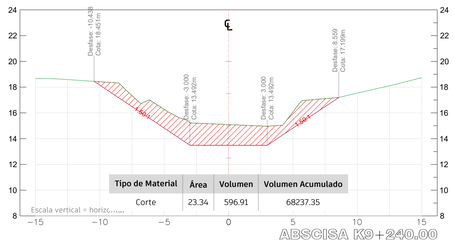



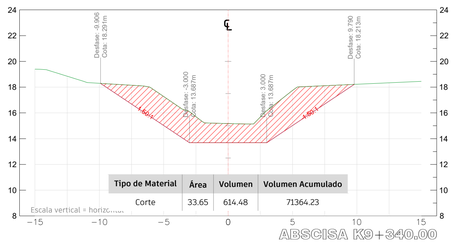



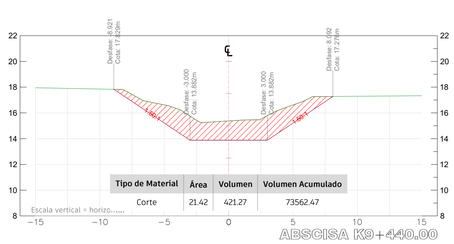



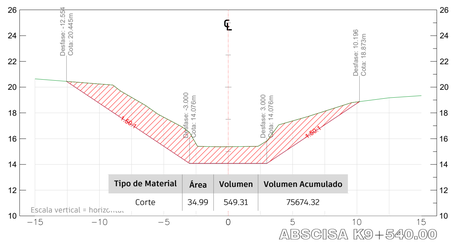



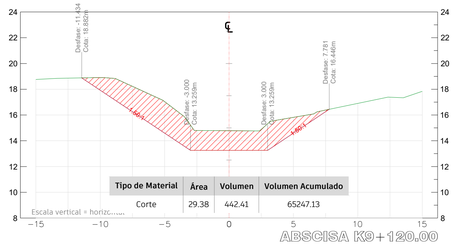



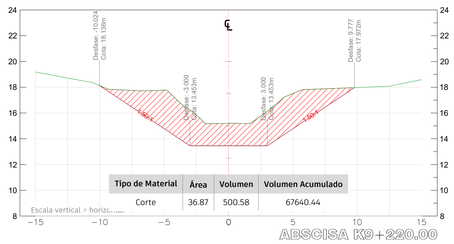



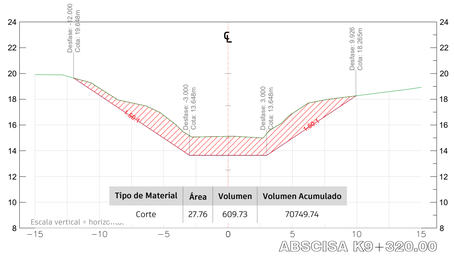



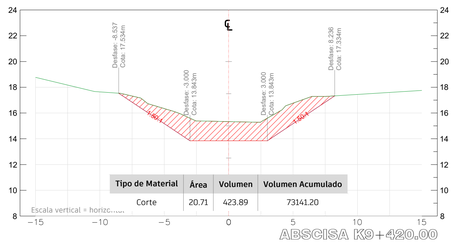



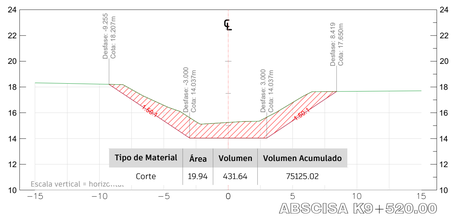



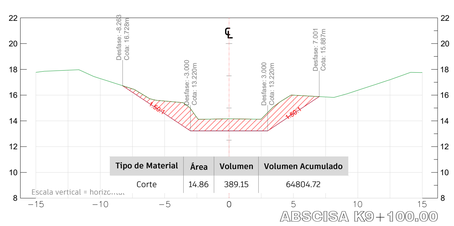



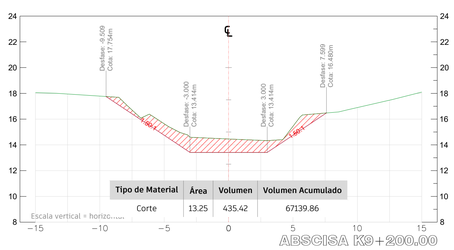



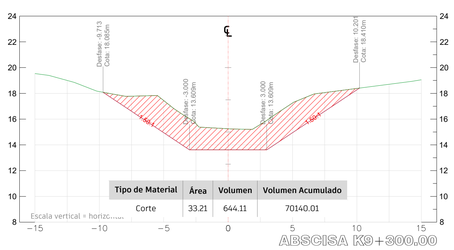



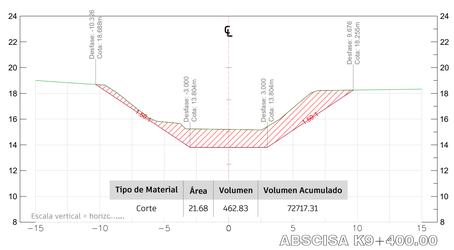



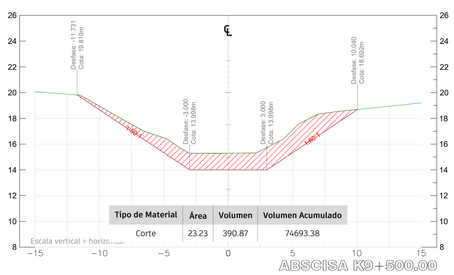




**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

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Universidad del Magdalena

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 13 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

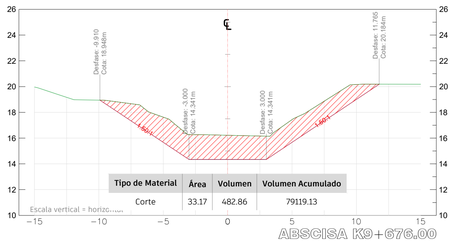
ENERO DE 2025

**ESCALA:**

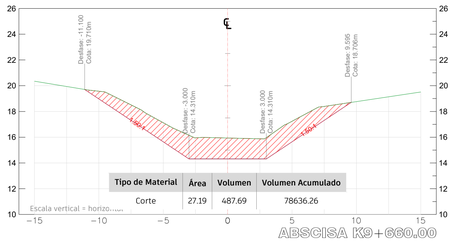
PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

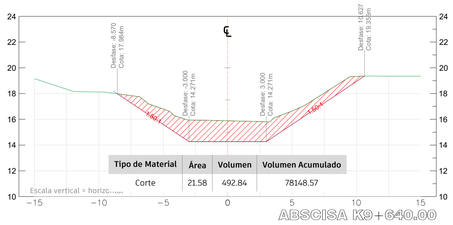
13
DE 14



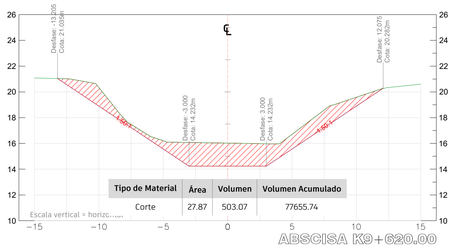

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 33.17 | 482.86 | 79119.13 |



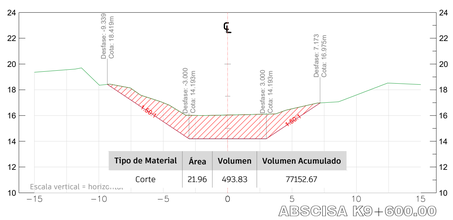

| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 27.19 | 487.69 | 78636.26 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 21.58 | 492.84 | 78148.57 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 27.87 | 503.07 | 77655.74 |




| Tipo de Material | Área | Volumen | Volumen Acumulado |
|---|---|---|---|
| Corte | 21.96 | 493.83 | 77152.67 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 5+700.00 | 0.42 | 0.00 | 0.00 |
| 5+720.00 | 3.35 | 38.26 | 38.26 |
| 5+740.00 | 2.85 | 62.74 | 101.00 |
| 5+760.00 | 6.70 | 95.89 | 196.89 |
| 5+780.00 | 0.00 | 0.00 | 196.89 |
| 5+800.00 | 0.00 | 0.00 | 196.89 |
| 5+820.00 | 8.05 | 0.00 | 196.89 |
| 5+840.00 | 16.21 | 248.15 | 445.05 |
| 5+860.00 | 28.89 | 453.69 | 898.74 |
| 5+880.00 | 9.23 | 385.89 | 1284.63 |
| 5+900.00 | 9.97 | 192.28 | 1476.91 |
| 5+920.00 | 20.51 | 308.30 | 1785.21 |
| 5+940.00 | 18.94 | 395.47 | 2180.69 |
| 5+960.00 | 22.41 | 415.48 | 2596.17 |
| 5+980.00 | 15.64 | 374.28 | 2970.45 |
| 6+000.00 | 27.81 | 388.34 | 3358.79 |
| 6+020.00 | 31.42 | 589.48 | 3948.27 |
| 6+040.00 | 36.12 | 672.44 | 4620.71 |
| 6+060.00 | 39.81 | 715.95 | 5336.66 |
| 6+080.00 | 38.89 | 758.57 | 6095.24 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 6+100.00 | 33.31 | 722.01 | 6817.25 |
| 6+120.00 | 37.77 | 712.61 | 7529.86 |
| 6+140.00 | 19.94 | 601.11 | 8130.98 |
| 6+160.00 | 27.42 | 476.32 | 8607.29 |
| 6+180.00 | 20.08 | 469.00 | 9076.29 |
| 6+200.00 | 14.23 | 343.27 | 9419.56 |
| 6+220.00 | 18.79 | 330.41 | 9749.97 |
| 6+240.00 | 22.70 | 414.08 | 10164.05 |
| 6+260.00 | 24.96 | 446.90 | 10610.96 |
| 6+280.00 | 21.91 | 452.59 | 11063.55 |
| 6+300.00 | 25.88 | 457.17 | 11520.72 |
| 6+320.00 | 26.08 | 519.58 | 12040.30 |
| 6+340.00 | 29.57 | 556.71 | 12597.01 |
| 6+360.00 | 26.37 | 559.34 | 13156.35 |
| 6+380.00 | 32.55 | 588.79 | 13745.15 |
| 6+400.00 | 30.18 | 610.75 | 14355.90 |
| 6+420.00 | 13.86 | 438.26 | 14794.16 |
| 6+440.00 | 24.57 | 371.88 | 15166.04 |
| 6+460.00 | 26.61 | 499.67 | 15665.72 |
| 6+480.00 | 27.20 | 528.16 | 16193.88 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 6+500.00 | 21.24 | 485.47 | 16679.35 |
| 6+520.00 | 10.09 | 313.30 | 16992.65 |
| 6+540.00 | 9.65 | 197.49 | 17190.14 |
| 6+560.00 | 22.79 | 321.29 | 17511.43 |
| 6+580.00 | 20.34 | 428.22 | 17939.65 |
| 6+600.00 | 15.58 | 375.56 | 18315.21 |
| 6+620.00 | 12.60 | 281.72 | 18596.93 |
| 6+640.00 | 15.56 | 280.13 | 18877.07 |
| 6+660.00 | 16.48 | 320.38 | 19197.45 |
| 6+680.00 | 16.88 | 334.55 | 19532.00 |
| 6+700.00 | 12.78 | 295.88 | 19827.88 |
| 6+720.00 | 8.81 | 212.50 | 20040.39 |
| 6+740.00 | 8.80 | 176.30 | 20216.69 |
| 6+760.00 | 15.86 | 241.50 | 20458.18 |
| 6+780.00 | 19.32 | 355.95 | 20814.14 |
| 6+800.00 | 14.87 | 343.90 | 21158.04 |
| 6+820.00 | 16.98 | 321.51 | 21479.55 |
| 6+840.00 | 13.88 | 308.15 | 21787.70 |
| 6+860.00 | 13.18 | 270.62 | 22058.33 |
| 6+880.00 | 16.52 | 297.02 | 22355.35 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 6+900.00 | 18.32 | 349.05 | 22704.40 |
| 6+920.00 | 19.09 | 360.73 | 23065.13 |
| 6+940.00 | 17.19 | 362.78 | 23427.90 |
| 6+960.00 | 9.96 | 271.49 | 23699.39 |
| 6+980.00 | 10.59 | 203.40 | 23902.79 |
| 7+000.00 | 10.21 | 208.01 | 24110.79 |
| 7+020.00 | 13.26 | 235.31 | 24346.11 |
| 7+040.00 | 14.96 | 282.21 | 24628.32 |
| 7+060.00 | 16.25 | 312.08 | 24940.39 |
| 7+080.00 | 12.35 | 286.65 | 25227.05 |
| 7+100.00 | 10.08 | 226.46 | 25453.50 |
| 7+120.00 | 10.04 | 206.32 | 25659.83 |
| 7+140.00 | 9.43 | 198.14 | 25857.97 |
| 7+160.00 | 9.93 | 197.03 | 26055.00 |
| 7+180.00 | 15.37 | 252.99 | 26307.99 |
| 7+200.00 | 8.57 | 241.15 | 26549.14 |
| 7+220.00 | 5.88 | 148.00 | 26697.14 |
| 7+240.00 | 7.32 | 131.24 | 26828.37 |
| 7+260.00 | 10.74 | 179.41 | 27007.78 |
| 7+280.00 | 14.11 | 248.42 | 27256.20 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 7+300.00 | 12.21 | 258.36 | 27514.56 |
| 7+320.00 | 9.46 | 216.65 | 27731.20 |
| 7+340.00 | 8.20 | 176.65 | 27907.85 |
| 7+360.00 | 6.56 | 147.44 | 28055.29 |
| 7+380.00 | 6.44 | 131.06 | 28186.35 |
| 7+400.00 | 8.26 | 146.38 | 28332.73 |
| 7+420.00 | 6.93 | 155.80 | 28488.53 |
| 7+440.00 | 4.31 | 112.45 | 28600.98 |
| 7+460.00 | 8.84 | 133.53 | 28734.51 |
| 7+480.00 | 8.34 | 171.75 | 28906.26 |
| 7+500.00 | 10.03 | 183.65 | 29089.91 |
| 7+520.00 | 17.16 | 275.16 | 29365.06 |
| 7+540.00 | 19.55 | 366.38 | 29731.44 |
| 7+560.00 | 19.37 | 389.13 | 30120.57 |
| 7+580.00 | 17.63 | 370.78 | 30491.35 |
| 7+600.00 | 15.11 | 329.22 | 30820.57 |
| 7+620.00 | 13.00 | 281.46 | 31102.03 |
| 7+640.00 | 15.30 | 287.13 | 31389.16 |
| 7+660.00 | 17.62 | 328.43 | 31717.59 |
| 7+680.00 | 13.01 | 300.95 | 32018.54 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 7+700.00 | 16.64 | 298.28 | 32316.82 |
| 7+720.00 | 12.92 | 306.82 | 32623.65 |
| 7+740.00 | 16.84 | 317.95 | 32941.60 |
| 7+760.00 | 18.75 | 356.46 | 33298.06 |
| 7+780.00 | 19.44 | 381.90 | 33679.97 |
| 7+800.00 | 18.31 | 377.50 | 34057.47 |
| 7+820.00 | 7.72 | 260.27 | 34317.74 |
| 7+840.00 | 7.59 | 153.13 | 34470.87 |
| 7+860.00 | 8.81 | 164.03 | 34634.90 |
| 7+880.00 | 20.86 | 296.70 | 34931.60 |
| 7+900.00 | 17.68 | 385.20 | 35316.80 |
| 7+920.00 | 18.19 | 353.45 | 35670.25 |
| 7+940.00 | 12.02 | 301.05 | 35971.29 |
| 7+960.00 | 7.40 | 194.24 | 36165.54 |
| 7+980.00 | 14.03 | 214.28 | 36379.81 |
| 8+000.00 | 21.84 | 361.06 | 36740.88 |
| 8+020.00 | 21.08 | 429.19 | 37170.07 |
| 8+040.00 | 21.23 | 423.18 | 37593.25 |
| 8+060.00 | 23.16 | 443.71 | 38036.96 |
| 8+080.00 | 22.15 | 453.09 | 38490.05 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 8+100.00 | 17.91 | 400.64 | 38890.69 |
| 8+120.00 | 17.00 | 349.12 | 39239.81 |
| 8+140.00 | 14.15 | 311.46 | 39551.27 |
| 8+160.00 | 22.33 | 364.90 | 39916.17 |
| 8+180.00 | 33.58 | 559.14 | 40475.31 |
| 8+200.00 | 30.21 | 641.63 | 41116.95 |
| 8+220.00 | 19.61 | 506.60 | 41623.55 |
| 8+240.00 | 23.48 | 434.38 | 42057.93 |
| 8+260.00 | 23.86 | 473.47 | 42531.40 |
| 8+280.00 | 23.17 | 470.33 | 43001.73 |
| 8+300.00 | 22.31 | 454.74 | 43456.47 |
| 8+320.00 | 41.98 | 642.86 | 44099.33 |
| 8+340.00 | 45.58 | 875.57 | 44974.90 |
| 8+360.00 | 26.42 | 720.02 | 45694.91 |
| 8+380.00 | 23.23 | 497.61 | 46192.52 |
| 8+400.00 | 26.28 | 496.63 | 46689.16 |
| 8+420.00 | 36.99 | 632.71 | 47321.87 |
| 8+440.00 | 25.72 | 627.05 | 47948.92 |
| 8+460.00 | 33.08 | 587.96 | 48536.88 |
| 8+480.00 | 19.32 | 524.02 | 49060.90 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 8+500.00 | 39.24 | 585.58 | 49646.48 |
| 8+520.00 | 24.88 | 641.18 | 50287.67 |
| 8+540.00 | 31.79 | 566.67 | 50854.33 |
| 8+560.00 | 20.11 | 518.99 | 51373.33 |
| 8+580.00 | 32.07 | 521.81 | 51895.13 |
| 8+600.00 | 35.13 | 671.98 | 52567.12 |
| 8+620.00 | 34.97 | 700.96 | 53268.08 |
| 8+640.00 | 21.92 | 567.64 | 53835.72 |
| 8+660.00 | 35.64 | 575.39 | 54411.11 |
| 8+680.00 | 20.20 | 558.39 | 54969.49 |
| 8+700.00 | 35.28 | 554.86 | 55524.35 |
| 8+720.00 | 24.73 | 600.12 | 56124.47 |
| 8+740.00 | 29.97 | 546.97 | 56671.44 |
| 8+760.00 | 23.35 | 550.43 | 57221.88 |
| 8+780.00 | 25.40 | 489.39 | 57711.27 |
| 8+800.00 | 25.15 | 484.22 | 58195.49 |
| 8+820.00 | 26.96 | 509.60 | 58705.09 |
| 8+840.00 | 26.27 | 532.26 | 59237.35 |
| 8+860.00 | 26.45 | 538.15 | 59775.50 |
| 8+880.00 | 18.61 | 457.99 | 60233.49 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 8+900.00 | 26.22 | 452.03 | 60685.53 |
| 8+920.00 | 35.75 | 619.66 | 61305.19 |
| 8+940.00 | 23.20 | 589.49 | 61894.68 |
| 8+960.00 | 12.85 | 360.54 | 62255.22 |
| 8+980.00 | 21.33 | 341.88 | 62597.10 |
| 9+000.00 | 25.36 | 473.86 | 63070.96 |
| 9+020.00 | 15.91 | 404.53 | 63475.48 |
| 9+040.00 | 15.85 | 317.70 | 63793.18 |
| 9+060.00 | 11.17 | 270.16 | 64063.34 |
| 9+080.00 | 24.05 | 352.23 | 64415.58 |
| 9+100.00 | 14.86 | 389.15 | 64804.72 |
| 9+120.00 | 29.38 | 442.41 | 65247.13 |
| 9+140.00 | 27.98 | 573.64 | 65820.76 |
| 9+160.00 | 15.54 | 430.63 | 66251.40 |
| 9+180.00 | 30.39 | 453.04 | 66704.44 |
| 9+200.00 | 13.25 | 435.42 | 67139.86 |
| 9+220.00 | 36.87 | 500.58 | 67640.44 |
| 9+240.00 | 23.34 | 596.91 | 68237.35 |
| 9+260.00 | 35.82 | 587.87 | 68825.22 |
| 9+280.00 | 31.24 | 670.68 | 69495.90 |

Material Table

| Station | Area | Volume | Cumulative Volume |
|---|---|---|---|
| 9+300.00 | 33.21 | 644.11 | 70140.01 |
| 9+320.00 | 27.76 | 609.73 | 70749.74 |
| 9+340.00 | 33.65 | 614.48 | 71364.23 |
| 9+360.00 | 16.00 | 486.78 | 71851.00 |
| 9+380.00 | 24.11 | 403.48 | 72254.48 |
| 9+400.00 | 21.68 | 462.83 | 72717.31 |
| 9+420.00 | 20.71 | 423.89 | 73141.20 |
| 9+440.00 | 21.42 | 421.27 | 73562.47 |
| 9+460.00 | 18.46 | 398.62 | 73961.09 |
| 9+480.00 | 15.68 | 341.42 | 74302.51 |
| 9+500.00 | 23.23 | 390.87 | 74693.38 |
| 9+520.00 | 19.94 | 431.64 | 75125.02 |
| 9+540.00 | 34.99 | 549.31 | 75674.32 |
| 9+560.00 | 18.61 | 525.96 | 76200.28 |
| 9+580.00 | 26.93 | 458.56 | 76658.84 |
| 9+600.00 | 21.96 | 493.83 | 77152.67 |
| 9+620.00 | 27.87 | 503.07 | 77655.74 |
| 9+640.00 | 21.58 | 492.84 | 78148.57 |
| 9+660.00 | 27.19 | 487.69 | 78636.26 |
| 9+676.00 | 33.17 | 482.86 | 79119.13 |

**ENTIDAD:**

C.R.A
Corporación Autónoma Regional del Atlántico

**CONTRATISTA:**

UNIVERSIDAD DEL MAGDALENA 1962

**OBJETO DEL PROYECTO:**

RETIRO MECÁNICO DE SEDIMENTO PARA LA RECUPERACIÓN DE LA CAPACIDAD HIDRÁULICA DEL ARROYO LEÓN PARA LA REDUCCIÓN DE LA AMENAZA DE INUNDACIÓN.

**LOCALIZACIÓN GENERAL:**



**PLANO DE:**

PL 14 - SECCIONES TRANSVERSALES

**CONVENCIONES:**

- Eje de Río.
- Curvas de Nivel de orden Superior.
- Curvas de Nivel de orden Inferior.
- Abscisado.
- Puntos Topográficos.
- Perfil terreno natural.
- Perfil terreno margen izquierda.
- Perfil terreno margen derecho.

Hidráulico de Obra

Ing. Gustavo Hernández

Supervisor

OBSERVACIONES

Elaboró

Revisión y Aprobación

**FECHA:**

ENERO DE 2025

**ESCALA:**

PLANTA 1 : 1000
SECCIONES 1 : 200

**NÚMERO DE PLANO:**

**14**
DE 14