

PLANILLA: No. 01

MEMORIA DE CÁLCULO

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MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO
SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 331

CAPITULO:
SUBCAPITULO:
AASS001 Replanteo y nivelación de la red

ALCANTARILLADO SANITARIO
PROVISIÓN E INSTALACIÓN DE TUBERÍAS Y ACCESORIOS
UNIDAD: Km

| ABSCISAS | | LONG. | OBSERVACIONES |
|---------------|-------|-------|---------------|
| DESDE | HASTA | (KM) | |
| | | | |
| Varias calles | | 1.35 | |
| | | | |
| | | | |

TOTAL = 1.35 Km



ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015



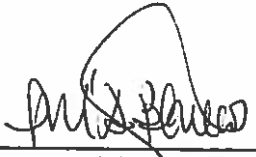
ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

AASS001 Replanteo y nivelación de la red

| ABSCISAS | | LONG (km) | OBSERVACIONES |
|----------|----------|--------------|--|
| INICIO | FIN | | |
| 0+000.00 | 0+095.83 | 0.10 | Av. Emiliano Ortega entre 24 de Mayo a Colón |
| 0+000.00 | 0+058.53 | 0.06 | Calle 24 de Mayo desde Av. Emiliano Ortega entre J.A.Eguiguren |
| 0+000.00 | 0+053.75 | 0.05 | Calle J.A.Eguiguren entre 24 de Mayo a Bustamante |
| 0+000.00 | 0+029.75 | 0.03 | Calle Rocafuerte entre Av. Emiliano Ortega y Macará |
| 0+000.00 | 0+263.41 | 0.26 | Av. Emiliano Ortega entre Rocafuerte y Azuay |
| 0+000.00 | 0+027.86 | 0.03 | Av. Emiliano Ortega y Rocafuerte hasta colector existente |
| 0+000.00 | 0+074.78 | 0.07 | Calle Miguel Riofrio entre Av. Emiliano Ortega y Macará |
| 0+000.00 | 0+121.86 | 0.12 | Calle Azuay entre Av. Emiliano Ortega y Macará |
| 0+000.00 | 0+145.60 | 0.15 | Av. Emiliano Ortega y Azuay hasta calle s/n parqueadero de estadio |
| 0+000.00 | 0+244.06 | 0.24 | Calle Macará entre Rocafuerte y Azuay |
| 0+000.00 | 0+190.61 | 0.19 | Calle Lourdes entre Av. Emiliano Ortega y Macará |
| 0+000.00 | 0+045.00 | 0.05 | Calle s/n entre Lourdes y Av. Emiliano Ortega |
| TOTAL : | | 1.35 | Km |

**MUNICIPIO DE LOJA****PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y
DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE
LOJA"****CONTRATISTA:**
FISCALIZACIÓN:**CONSORCIO LOJA 2015**
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.**PLANILLA: 1**
PERIODO: MARZO/2016
RUBRO: 332**CAPITULO:**
SUBCAPITULO:
AASS002 Excavación a mano sin clasificar**ALCANTARILLADO SANITARIO**
PROVISIÓN E INSTALACIÓN DE TUBERÍAS Y ACCESORIOS
UNIDAD: M3

| DESCRIPCIÓN | | TIPO | VOLUMEN | OBSERVACIONES |
|-------------|------|------|---------|---|
| | | | (M3) | |
| Pozo nro. | 636 | I | 0.47 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| Pozo nro. | 675 | I | 0.47 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| Pozo nro. | 637 | I | 0.47 | Av. Emiliano Ortega y 24 de Mayo |
| Pozo nro. | 643 | I | 0.47 | Av. Emiliano Ortega entre Rocafuerte y 10 de agosto |
| Pozo nro. | 644 | I | 0.47 | Av. Emiliano Ortega y Rocafuerte |
| Pozo nro. | 575 | I | 0.47 | Calle Rocafuerte y Macará |
| Pozo nro. | 645 | I | 0.47 | Av. Emiliano Ortega entre Rocafuerte y M. Riofrío |
| Pozo nro. | 574 | I | 0.47 | Macará entre Rocafuerte y Miguel Riofrío |
| Pozo nro. | 476 | I | 0.47 | Av. Emiliano Ortega y M. Riofrío |
| Pozo nro. | 476' | I | 0.47 | Av. Emiliano Ortega entre Rocafuerte y M. Riofrío |
| Pozo nro. | 475 | I | 0.47 | Calle Miguel Riofrío y Macará |
| Pozo nro. | 468 | I | 0.47 | Calle Macará entre Azuay y Miguel Riofrío |
| Pozo nro. | 674 | IE | 1.31 | Av. Emiliano Ortega entre Azuay y M. Riofrío |
| Pozo nro. | 457 | IE | 1.31 | Av. Emiliano Ortega y Azuay |
| Pozo nro. | 456 | IE | 1.31 | Azuay entre Av. Emiliano Ortega y Macará |
| Pozo nro. | 455 | I | 1.31 | Calle Macará y Azuay |
| Pozo nro. | 462 | I | 0.47 | Av. Emiliano Ortega y Estadio |
| Pozo nro. | 460 | I | 0.47 | Av. Emiliano Ortega y Estadio |
| Pozo nro. | 461 | I | 0.47 | Av. Emiliano Ortega y Estadio |
| Pozo nro. | 314 | IE | 1.31 | Calle Lourdes |
| Pozo nro. | 313 | IE | 1.31 | Calle Lourdes y Matilde Hidalgo |
| Pozo nro. | 312 | IE | 1.31 | Calle Lourdes y Matilde Hidalgo |
| Pozo nro. | 311 | IE | 0.47 | Calle Lourdes y Matilde Hidalgo |
| Pozo nro. | 328 | I | 0.47 | Calle s/n y Av. Emiliano Ortega |

TOTAL = 17.16 M3
ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015
ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

AASS002 Excavación a mano sin clasificar

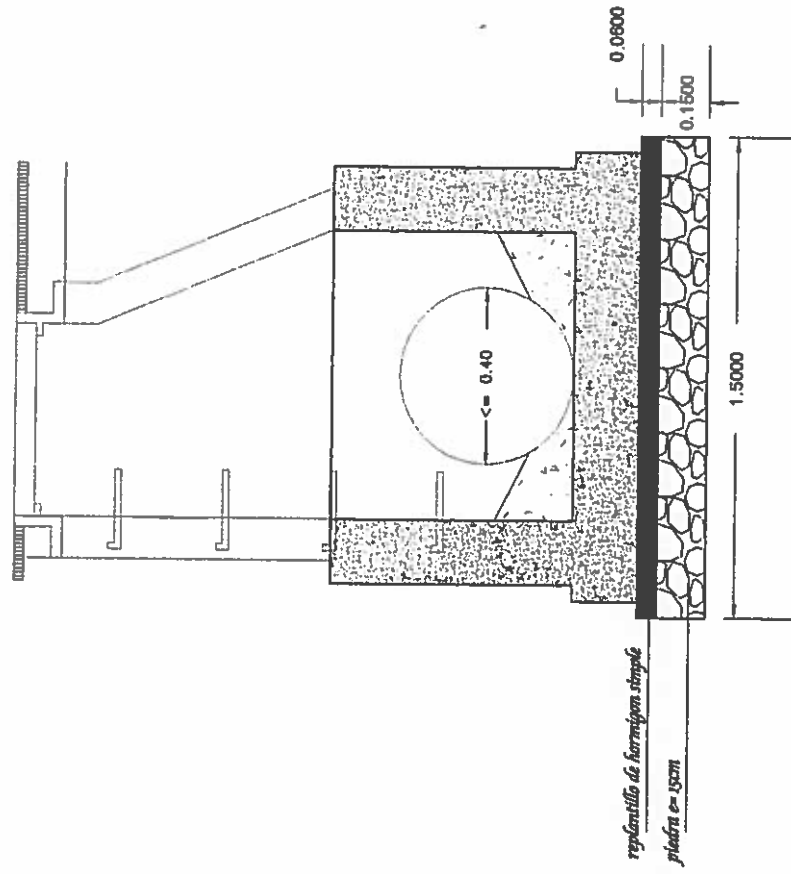
| NRO. POZO | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------------|-----------------|--------------|---------------|-----------------|----------------------|---------------|
| 636 | 1.50 | 1.50 | 0.21 | 0.47 | 0.47 | Pozo tipo I |
| 675 | 1.50 | 1.50 | 0.21 | 0.47 | 0.94 | Pozo tipo I |
| 637 | 1.50 | 1.50 | 0.21 | 0.47 | 1.41 | Pozo tipo I |
| 643 | 1.50 | 1.50 | 0.21 | 0.47 | 1.88 | Pozo tipo I |
| 644 | 1.50 | 1.50 | 0.21 | 0.47 | 2.35 | Pozo tipo I |
| 575 | 1.50 | 1.50 | 0.21 | 0.47 | 2.82 | Pozo tipo I |
| 645 | 1.50 | 1.50 | 0.21 | 0.47 | 3.29 | Pozo tipo I |
| 574 | 1.50 | 1.50 | 0.21 | 0.47 | 3.76 | Pozo tipo I |
| 476 | 1.50 | 1.50 | 0.21 | 0.47 | 4.23 | Pozo tipo I |
| 476' | 1.50 | 1.50 | 0.21 | 0.47 | 4.70 | Pozo tipo I |
| 475 | 1.50 | 1.50 | 0.21 | 0.47 | 5.17 | Pozo tipo I |
| 468 | 1.50 | 1.50 | 0.21 | 0.47 | 5.64 | Pozo tipo I |
| 674 | 2.50 | 2.50 | 0.21 | 1.31 | 6.95 | Pozo tipo IE |
| 457 | 2.50 | 2.50 | 0.21 | 1.31 | 8.26 | Pozo tipo IE |
| 456 | 2.50 | 2.50 | 0.21 | 1.31 | 9.57 | Pozo tipo IE |
| 455 | 2.50 | 2.50 | 0.21 | 1.31 | 10.88 | Pozo tipo IE |
| 462 | 1.50 | 1.50 | 0.21 | 0.47 | 11.35 | Pozo tipo I |
| 460 | 1.50 | 1.50 | 0.21 | 0.47 | 11.82 | Pozo tipo I |
| 461 | 1.50 | 1.50 | 0.21 | 0.47 | 12.29 | Pozo tipo I |
| 314 | 2.50 | 2.50 | 0.21 | 1.31 | 13.60 | Pozo tipo IE |
| 313 | 2.50 | 2.50 | 0.21 | 1.31 | 14.91 | Pozo tipo IE |
| 312 | 2.50 | 2.50 | 0.21 | 1.31 | 16.22 | Pozo tipo IE |
| 311 | 1.50 | 1.50 | 0.21 | 0.47 | 16.69 | Pozo tipo I |
| 328 | 1.50 | 1.50 | 0.21 | 0.47 | 15.38 | Pozo tipo I |
| TOTAL : | | | | 17.16 | m³. | |

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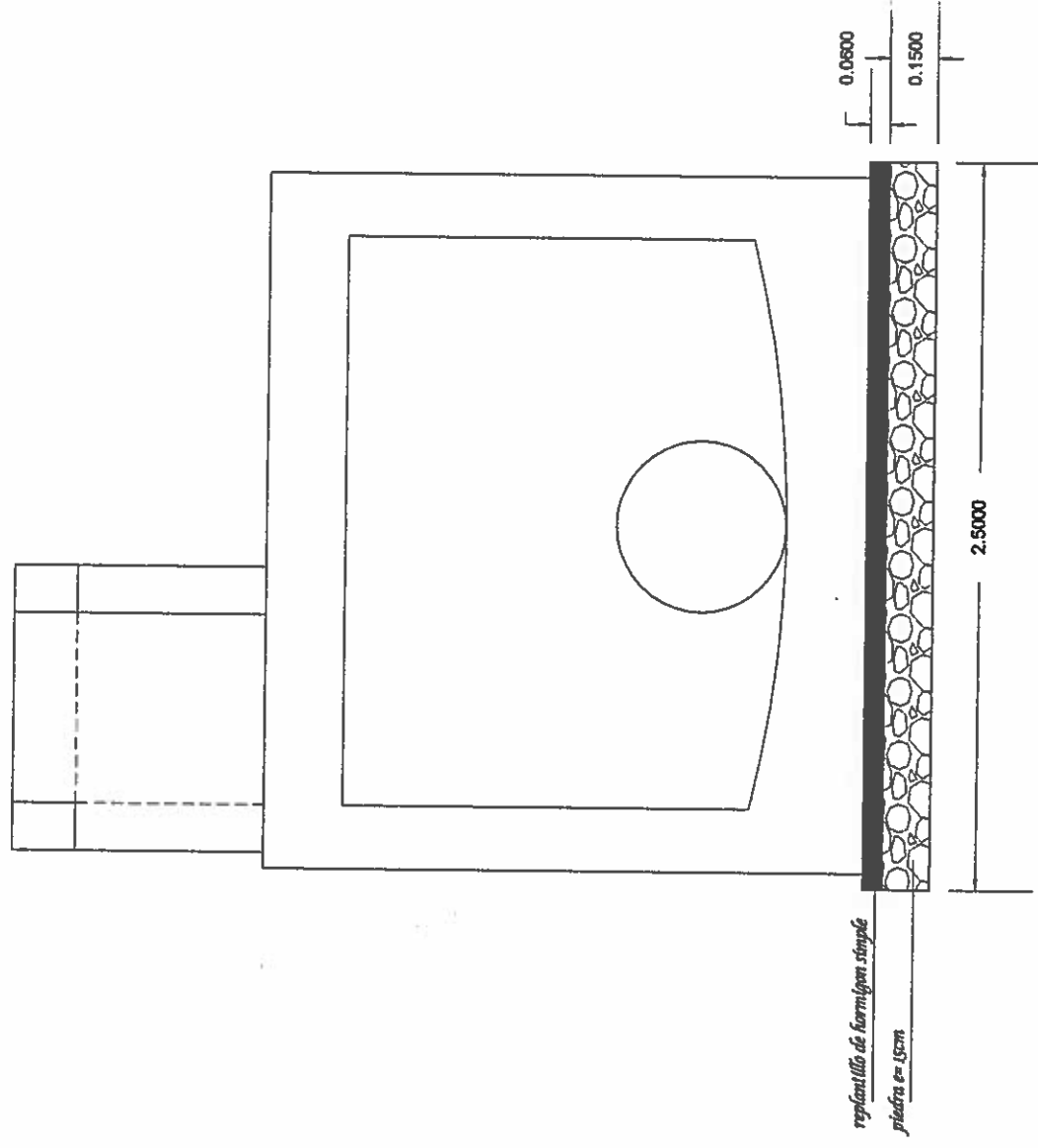
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EXCAVACIÓN MANUAL PARA REPLANTILLO DE POZOS DE REVISIÓN



POZO DE REVISION TIPO I



POZO DE REVISION TIPO IE

**MUNICIPIO DE LOJA****PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"****CONTRATISTA:**
FISCALIZACIÓN:**CONSORCIO LOJA 2015**
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.**PLANILLA: 1**
PERIODO: MARZO/2016
RUBRO: 333**CAPITULO:**
SUBCAPITULO:
AASS003 Excavación a máquina H=0-2 m**ALCANTARILLADO SANITARIO**
PROVISIÓN E INSTALACIÓN DE TUBERÍAS Y ACCESORIOS
UNIDAD: M3

| ABSCISAS | | LONG. | VOLUMEN | OBSERVACIONES |
|---|----------|--------|---------|---|
| DESDE | HASTA | (m) | (M3) | |
| EXCAVACIÓN DE ZANJAS PARA COLOCACIÓN DE TUBERÍA | | | | |
| 0+001.20 | 0+094.63 | 91.03 | 84.64 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| 0+001.20 | 0+057.33 | 56.13 | 65.82 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren |
| 0+001.20 | 0+052.55 | 51.35 | 47.78 | Calle J.A. Eguiguren entre 24 de Mayo y Bustamante |
| 0+001.20 | 0+261.76 | 240.06 | 286.30 | Av. Emiliano Ortega entre Rocafuerte y Azuay |
| 0+001.65 | 0+120.21 | 115.26 | 235.85 | Calle Azuay entre Av. Emiliano Ortega y Macará |
| 0+001.20 | 0+028.55 | 27.35 | 30.91 | Calle Rocafuerte entre Av. Emiliano Ortega y Macará |
| 0+001.20 | 0+242.41 | 231.60 | 200.79 | Calle Macará entre Rocafuerte y Azuay |
| 0+160.00 | 0+189.41 | 29.41 | 49.80 | Calle Lourdes entre Av. Emiliano Ortega y Macará |
| 0+001.50 | 0+045.00 | 43.50 | 32.16 | Calle s/n entre Lourdes y Av. Emiliano Ortega |
| 0+001.20 | 0+027.86 | 24.26 | 24.99 | Av. Emiliano Ortega desde Rocafuerte a colector existente |
| 0+001.65 | 0+144.40 | 137.95 | 113.16 | Av. Emiliano Ortega desde Azuay a estadio |
| EXCAVACIÓN PARA POZOS DE REVISIÓN | | | | |
| 0+095.83 | | | 9.22 | Pozo 636, Av. Emiliano Ortega |
| 0+045.33 | | | 6.85 | Pozo 675, Av. Emiliano Ortega |
| 0+000.00 | | | 6.91 | Pozo 637, Av. Emiliano Ortega |
| 0+058.53 | | | 11.23 | Pozo 570, Calle 24 de Mayo |
| 0+053.75 | | | 4.44 | Pozo 592, Calle J. A. Eguiguren |
| 0+000.00 | | | 6.45 | Pozo 644, Av. Emiliano Ortega |
| 0+063.00 | | | 5.47 | Pozo 645, Av. Emiliano Ortega |
| 0+128.82 | | | 7.08 | Pozo 476, Av. Emiliano Ortega |
| 0+115.82 | | | 7.08 | Pozo 476, Av. Emiliano Ortega |
| 0+177.80 | | | 18.73 | Pozo 674, Av. Emiliano Ortega |
| 0+263.41 | | | 20.69 | Pozo 457, Av. Emiliano Ortega |
| 0+000.00 | | | 7.66 | Pozo 575, Calle Macará |
| 0+061.65 | | | 7.14 | Pozo 574, Calle Macará |
| 0+120.19 | | | 7.20 | Pozo 475, Calle Macará |
| 0+188.45 | | | 7.78 | Pozo 468, Calle Macará |
| 0+244.06 | | | 14.70 | Pozo 455, Calle Macará |
| 0+054.18 | | | 24.50 | Pozo 456, Calle Azuay |
| 0+033.88 | | | 15.68 | Pozo 314, Calle Lourdes |
| 0+064.64 | | | 14.48 | Pozo 313, Calle Lourdes |
| 0+135.57 | | | 16.01 | Pozo 312, Calle Lourdes |
| 0+190.61 | | | 6.34 | Pozo 311, Calle Lourdes |
| 0+063.79 | | | 6.34 | Pozo 462, Av. Emiliano Ortega |
| 0+127.60 | | | 6.34 | Pozo 461, Av. Emiliano Ortega |
| 0+145.60 | | | 6.34 | Pozo 460, Frente a estadio |

TOTAL = 1416.86 M3
ING. CLAY ZAMBRANO
SUPERINTENDENTE
CONSORCIO LOJA 2015
ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

AASS003 Excavación a máquina H=0-2 m

| ABSCISAS | | 0+001.20 - | 0+094.63 | Av. Emiliano Ortega entre 24 de Mayo y Colón | | |
|----------------|--------------|------------|------------|--|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.20 | | | 1.09 | | | Pozo 637 - pozo 675 (Zanja para tubería Ø300mm) |
| 0+010.00 | 8.80 | 0.70 | 1.17 | 6.96 | 6.96 | |
| 0+020.00 | 10.00 | 0.70 | 1.18 | 8.23 | 15.19 | |
| 0+030.00 | 10.00 | 0.70 | 1.10 | 7.98 | 23.17 | |
| 0+040.00 | 10.00 | 0.70 | 1.18 | 7.98 | 31.15 | |
| 0+044.13 | 4.13 | 0.70 | 1.18 | 3.41 | 34.56 | |
| 0+046.53 | | | 1.18 | | 34.56 | Pozo 675 - pozo 636 (Zanja para tubería Ø300mm) |
| 0+050.00 | 3.47 | 0.70 | 1.32 | 3.04 | 37.60 | |
| 0+060.00 | 10.00 | 0.70 | 1.32 | 9.24 | 46.84 | |
| 0+070.00 | 10.00 | 0.70 | 1.38 | 9.45 | 56.29 | |
| 0+080.00 | 10.00 | 0.70 | 1.96 | 11.69 | 67.98 | |
| 0+090.00 | 10.00 | 0.70 | 1.44 | 11.90 | 79.88 | |
| 0+094.63 | 4.63 | 0.70 | 1.50 | 4.76 | 84.64 | |
| TOTAL : | 91.03 | | | 84.64 | m³. | |

| ABSCISAS | | 0+001.20 - | 0+057.33 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren | | |
|----------------|--------------|------------|------------|---|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.20 | | | 1.49 | | | Pozo 637 - pozo 570 (Zanja para tubería Ø250mm) |
| 0+010.00 | 8.80 | 0.70 | 1.49 | 9.18 | 9.18 | |
| 0+020.00 | 10.00 | 0.70 | 1.59 | 10.78 | 19.96 | |
| 0+030.00 | 10.00 | 0.70 | 1.76 | 11.73 | 31.69 | |
| 0+040.00 | 10.00 | 0.70 | 1.80 | 12.46 | 44.15 | |
| 0+050.00 | 10.00 | 0.70 | 1.73 | 12.36 | 56.51 | |
| 0+057.33 | 7.33 | 0.70 | 1.90 | 9.31 | 65.82 | |
| TOTAL : | 56.13 | | | 65.82 | m³. | |

| ABSCISAS | | 0+001.20 - | 0+052.55 | Calle J.A. Eguiguren entre 24 de Mayo y Bustamante | | |
|----------------|--------------|------------|------------|--|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.20 | | | 1.92 | | | Pozo 570 - pozo 592 (Zanja para tubería Ø250mm) |
| 0+010.00 | 8.80 | 0.70 | 1.50 | 10.53 | 10.53 | |
| 0+020.00 | 10.00 | 0.70 | 1.48 | 10.43 | 20.96 | |
| 0+030.00 | 10.00 | 0.70 | 1.29 | 9.70 | 30.66 | |
| 0+040.00 | 10.00 | 0.70 | 1.09 | 8.33 | 38.99 | |
| 0+050.00 | 10.00 | 0.70 | 0.97 | 7.21 | 46.20 | |
| 0+052.55 | 2.55 | 0.70 | 0.80 | 1.58 | 47.78 | |
| TOTAL : | 51.35 | | | 47.78 | m³. | |

| ABSCISAS | | 0+001.20 - | 0+261.76 | Av. Emiliano Ortega entre Rocafuerte y Azuay | | |
|----------|--------------|------------|------------|--|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.20 | | | 1.08 | | | Pozo 644 - pozo 645 (Zanja para tubería Ø250mm) |
| 0+010.00 | 8.80 | 0.70 | 0.99 | 6.38 | 6.38 | |
| 0+020.00 | 10.00 | 0.70 | 0.91 | 6.65 | 13.03 | |
| 0+030.00 | 10.00 | 0.70 | 0.83 | 6.09 | 19.12 | |
| 0+040.00 | 10.00 | 0.70 | 0.84 | 5.85 | 24.97 | |
| 0+050.00 | 10.00 | 0.70 | 0.88 | 6.02 | 30.99 | |
| 0+060.00 | 10.00 | 0.70 | 1.02 | 6.65 | 37.64 | |
| 0+061.80 | 1.80 | 0.70 | 0.97 | 1.25 | 38.89 | |

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|----------|--------|------|------|-----------|--------|--|
| 0+064.20 | | | 0.97 | | 38.89 | Pozo 645 - pozo 476' (Zanja para tubería Ø250mm) |
| 0+070.00 | 5.80 | 0.70 | 1.01 | 4.02 | 42.91 | |
| 0+080.00 | 10.00 | 0.70 | 0.98 | 6.97 | 49.88 | |
| 0+090.00 | 10.00 | 0.70 | 0.92 | 6.65 | 56.53 | |
| 0+100.00 | 10.00 | 0.70 | 0.96 | 6.58 | 63.11 | |
| 0+110.00 | 10.00 | 0.70 | 1.05 | 7.04 | 70.15 | |
| 0+115.22 | 5.22 | 0.70 | 1.11 | 3.95 | 74.10 | |
| 0+130.02 | | | 1.24 | | 74.10 | Pozo 476 - pozo 674 (Zanja para tubería Ø250mm) |
| 0+140.00 | 9.98 | 0.70 | 1.07 | 8.07 | 82.17 | |
| 0+150.00 | 10.00 | 0.70 | 1.13 | 7.70 | 89.87 | |
| 0+160.00 | 10.00 | 0.70 | 1.19 | 8.12 | 97.99 | |
| 0+170.00 | 10.00 | 0.70 | 1.27 | 8.61 | 106.60 | |
| 0+176.15 | 6.15 | 0.70 | 1.30 | 5.53 | 112.13 | |
| 0+179.45 | | | 1.77 | | 112.13 | |
| 0+190.00 | 10.55 | 1.20 | 1.72 | 22.09 | 134.22 | |
| 0+200.00 | 10.00 | 1.20 | 1.75 | 20.82 | 155.04 | |
| 0+210.00 | 10.00 | 1.20 | 1.78 | 21.18 | 176.22 | |
| 0+220.00 | 10.00 | 1.20 | 1.62 | 20.40 | 196.62 | |
| 0+230.00 | 10.00 | 1.20 | 1.61 | 19.38 | 216.00 | |
| 0+240.00 | 10.00 | 1.20 | 1.88 | 20.94 | 236.94 | |
| 0+250.00 | 10.00 | 1.20 | 1.87 | 22.50 | 259.44 | |
| 0+260.00 | 10.00 | 1.20 | 1.94 | 22.86 | 282.30 | |
| 0+261.76 | 1.76 | 1.20 | 1.85 | 4.00 | 286.30 | |
| | | | | | | |
| TOTAL : | 240.06 | | | 286.30 m³ | | |

| ABSCISAS | | 0+001.65 - | 0+120.21 | Calle Azuay entre Av. Emiliano Ortega y Macará | | |
|----------------|---------------|------------|------------|--|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.65 | | | 1.22 | | | Pozo 457 - pozo 456 (Zanja para tubería Ø500mm) |
| 0+010.00 | 8.35 | 1.20 | 1.26 | 12.42 | 12.42 | |
| 0+020.00 | 10.00 | 1.20 | 1.27 | 15.18 | 27.60 | |
| 0+030.00 | 10.00 | 1.20 | 1.42 | 16.14 | 43.74 | |
| 0+040.00 | 10.00 | 1.20 | 1.68 | 18.60 | 62.34 | |
| 0+050.00 | 10.00 | 1.20 | 2.49 | 25.02 | 87.36 | |
| 0+052.53 | 2.53 | 1.20 | 2.41 | 7.44 | 94.80 | |
| 0+055.83 | | | 2.45 | | 94.80 | Pozo 456 - pozo 455 (Zanja para tubería Ø500mm) |
| 0+060.00 | 4.17 | 1.20 | 1.98 | 11.08 | 105.88 | |
| 0+070.00 | 10.00 | 1.20 | 1.98 | 23.76 | 129.64 | |
| 0+080.00 | 10.00 | 1.20 | 1.88 | 23.16 | 152.80 | |
| 0+090.00 | 10.00 | 1.20 | 1.85 | 22.38 | 175.18 | |
| 0+100.00 | 10.00 | 1.20 | 1.85 | 22.20 | 197.38 | |
| 0+110.00 | 10.00 | 1.20 | 1.57 | 20.52 | 217.90 | |
| 0+120.21 | 10.21 | 1.20 | 1.36 | 17.95 | 235.85 | |
| | | | | | | |
| TOTAL : | 115.26 | | | 235.85 | m³. | |

| ABSCISAS | | 0+001.20 - | 0+028.55 | Calle Rocafuerte ente Av. Emiliano Ortega y Macará | | |
|----------------|--------------|------------|------------|--|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.20 | | | 1.65 | | | Pozo 644 - pozo 575 (Zanja para tubería Ø250mm) |
| 0+010.00 | 8.80 | 0.70 | 1.52 | 9.76 | 9.76 | |
| 0+020.00 | 10.00 | 0.70 | 1.69 | 11.24 | 21.00 | |
| 0+028.55 | 8.55 | 0.70 | 1.62 | 9.91 | 30.91 | |
| | | | | | | |
| TOTAL : | 27.35 | | | 30.91 | m³. | |

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| ABSCISAS | | 0+001.20 - 0+242.41 | | Calle Macará entre Rocafuerte y Azuay | | |
|----------------|---------------|---------------------|------------|---------------------------------------|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.20 | | | 1.16 | | | Pozo 575 - pozo 574 (Zanja para tubería Ø250mm) |
| 0+010.00 | 8.80 | 0.70 | 1.17 | 7.18 | 7.18 | |
| 0+020.00 | 10.00 | 0.70 | 1.13 | 8.05 | 15.23 | |
| 0+030.00 | 10.00 | 0.70 | 1.11 | 7.84 | 23.07 | |
| 0+040.00 | 10.00 | 0.70 | 1.01 | 7.42 | 30.49 | |
| 0+050.00 | 10.00 | 0.70 | 1.09 | 7.35 | 37.84 | |
| 0+060.45 | 10.45 | 0.70 | 1.13 | 8.12 | 45.96 | |
| 0+062.85 | | | 1.16 | | 45.96 | Pozo 574 - pozo 475 (Zanja para tubería Ø250mm) |
| 0+070.00 | 7.15 | 0.70 | 1.21 | 5.93 | 51.89 | |
| 0+080.00 | 10.00 | 0.70 | 1.20 | 8.44 | 60.33 | |
| 0+090.00 | 10.00 | 0.70 | 1.23 | 8.51 | 68.84 | |
| 0+100.00 | 10.00 | 0.70 | 1.44 | 9.35 | 78.19 | |
| 0+110.00 | 10.00 | 0.70 | 1.46 | 10.15 | 88.34 | |
| 0+118.99 | 8.99 | 0.70 | 1.46 | 9.19 | 97.53 | |
| 0+121.39 | | | 1.46 | | 97.53 | Pozo 475 - pozo 468 (Zanja para tubería Ø250mm) |
| 0+130.00 | 8.61 | 0.70 | 1.27 | 8.23 | 105.76 | |
| 0+140.00 | 10.00 | 0.70 | 1.24 | 8.79 | 114.55 | |
| 0+150.00 | 10.00 | 0.70 | 1.22 | 8.61 | 123.16 | |
| 0+160.00 | 10.00 | 0.70 | 1.18 | 8.40 | 131.56 | |
| 0+170.00 | 10.00 | 0.70 | 1.24 | 8.47 | 140.03 | |
| 0+180.00 | 10.00 | 0.70 | 1.33 | 9.00 | 149.03 | |
| 0+187.25 | 7.25 | 0.70 | 1.27 | 6.60 | 155.63 | Pozo 468 - pozo 455 (Zanja para tubería Ø250mm) |
| 0+189.65 | | | 1.25 | | 155.63 | |
| 0+200.00 | 10.35 | 0.70 | 1.28 | 9.16 | 164.79 | |
| 0+210.00 | 10.00 | 0.70 | 1.15 | 8.51 | 173.30 | |
| 0+220.00 | 10.00 | 0.70 | 1.17 | 8.12 | 181.42 | |
| 0+230.00 | 10.00 | 0.70 | 1.21 | 8.33 | 189.75 | |
| 0+240.00 | 10.00 | 0.70 | 1.31 | 8.82 | 198.57 | |
| 0+242.41 | 2.41 | 0.70 | 1.32 | 2.22 | 200.79 | |
| TOTAL : | 231.60 | | | 200.79 | m³. | |

| ABSCISAS | | 0+160.00 - 0+189.41 | | Calle Lourdes entre Av. Emiliano Ortega y Macará | | |
|----------------|--------------|---------------------|------------|--|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+160.00 | | | 1.98 | | | Pozo 312 - pozo 311 (Zanja para tubería Ø350mm) |
| 0+170.00 | 10.00 | 0.93 | 1.88 | 17.95 | 17.95 | |
| 0+180.00 | 10.00 | 0.93 | 1.76 | 16.93 | 34.88 | |
| 0+189.41 | 9.41 | 0.93 | 1.65 | 14.92 | 49.80 | |
| TOTAL : | 29.41 | | | 49.80 | m³. | |

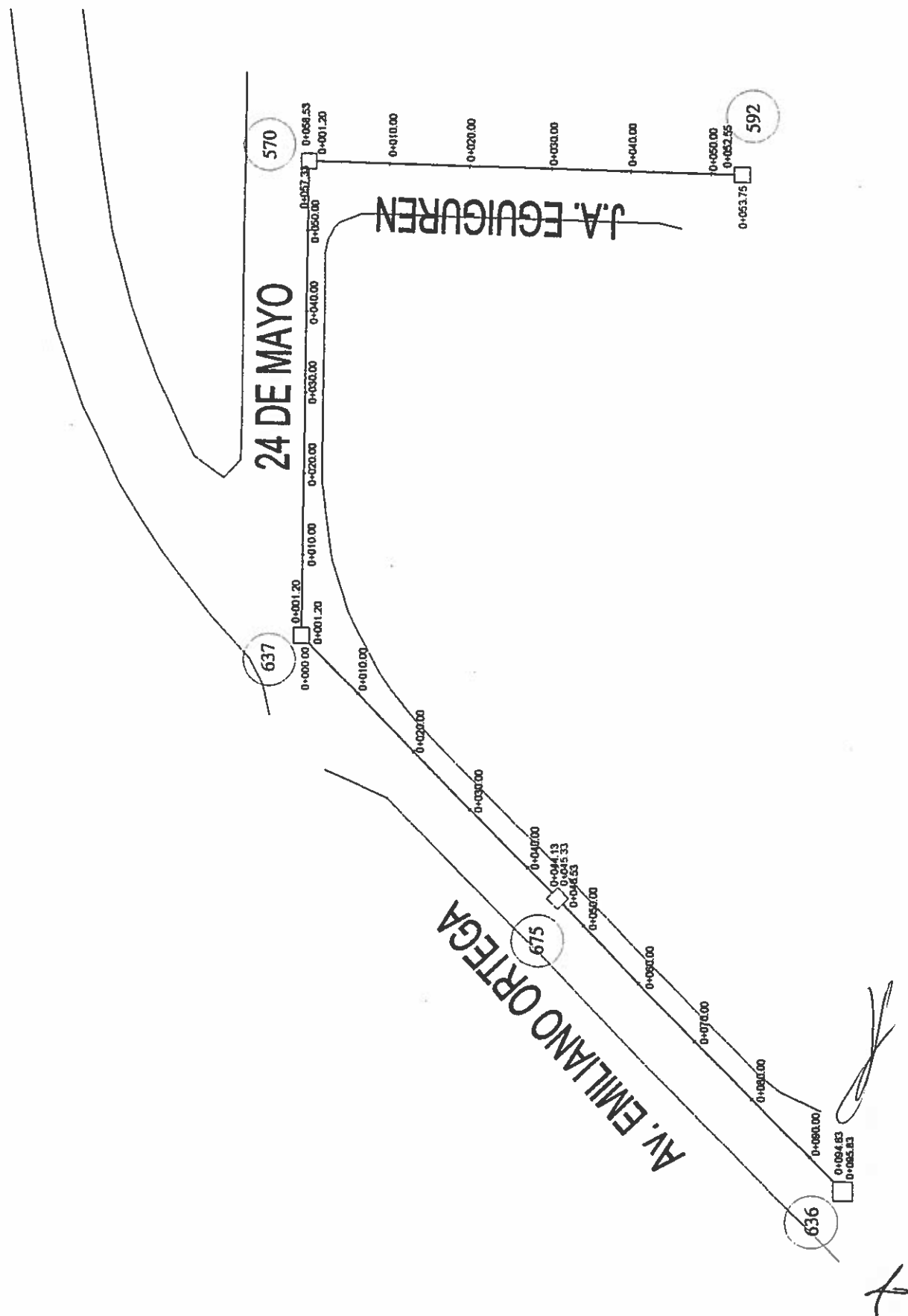
| ABSCISAS | | 0+001.50 - 0+045.00 | | Calle s/n entre Lourdes y Av. Emiliano Ortega | | |
|----------------|--------------|---------------------|------------|---|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.50 | | | 1.47 | | | Pozo 314 - pozo 328 (Zanja para tubería Ø250mm) |
| 0+010.00 | 8.50 | 0.70 | 1.23 | 8.03 | 8.03 | |
| 0+020.00 | 10.00 | 0.70 | 1.12 | 8.23 | 16.26 | |
| 0+030.00 | 10.00 | 0.70 | 0.87 | 6.97 | 23.23 | |
| 0+040.00 | 10.00 | 0.70 | 0.85 | 6.02 | 29.25 | |
| 0+045.00 | 5.00 | 0.70 | 0.81 | 2.91 | 32.16 | |
| TOTAL : | 43.50 | | | 32.16 | m³. | |

| ABSCISAS | | 0+001.20 - | 0+027.86 | Av. Emiliano Ortega desde Rocafuerte a colector existente | | |
|----------------|--------------|------------|------------|---|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.20 | | | 1.61 | | | Pozo 644 - pozo 643 (Zanja para tubería Ø250mm) |
| 0+010.00 | 8.80 | 0.70 | 1.52 | 9.64 | 9.64 | |
| 0+020.00 | 10.00 | 0.70 | 1.34 | 10.01 | 19.65 | |
| 0+022.07 | 2.07 | 0.70 | 1.35 | 1.95 | 21.60 | |
| 0+024.47 | | | 1.31 | | | Pozo 643 - colector SW244 (Zanja para tubería Ø250mm) |
| 0+027.86 | 3.39 | 0.70 | 1.55 | 3.39 | 24.99 | |
| TOTAL : | 24.26 | | | 24.99 | m³. | |

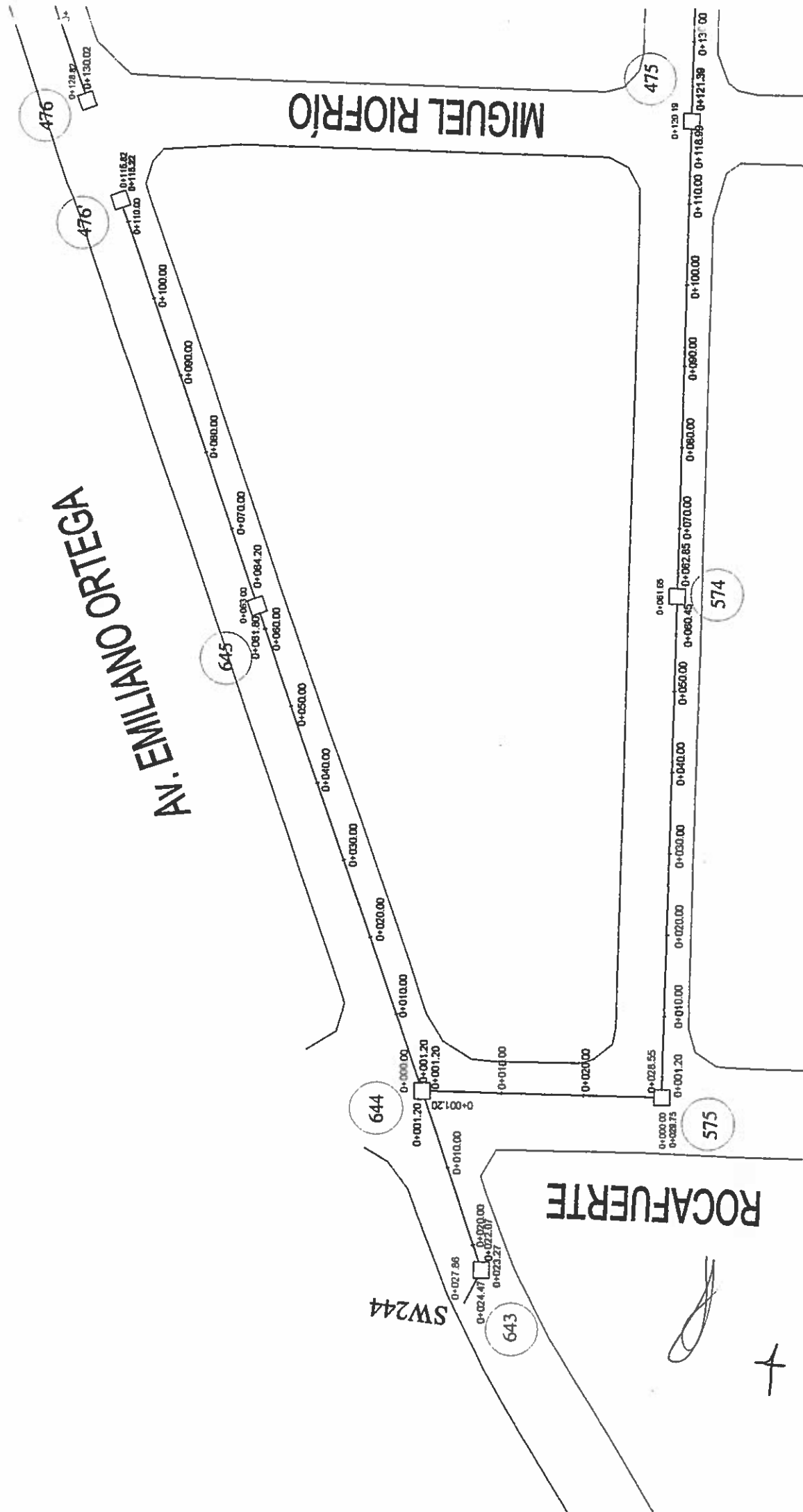
| ABSCISAS | | 0+001.65 - | 0+144.40 | Av. Emiliano Ortega desde Azuay a estadio | | |
|----------------|---------------|------------|------------|---|-------------------|---|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.65 | | | 1.31 | | | Pozo 457 - pozo 462 (Zanja para tubería Ø250mm) |
| 0+010.00 | 8.35 | 0.70 | 1.24 | 7.45 | 7.45 | |
| 0+020.00 | 10.00 | 0.70 | 1.17 | 8.44 | 15.89 | |
| 0+030.00 | 10.00 | 0.70 | 1.60 | 9.70 | 25.59 | |
| 0+040.00 | 10.00 | 0.70 | 1.06 | 9.31 | 34.90 | |
| 0+050.00 | 10.00 | 0.70 | 1.00 | 7.21 | 42.11 | |
| 0+060.00 | 10.00 | 0.70 | 0.98 | 6.93 | 49.04 | |
| 0+062.59 | 2.59 | 0.70 | 1.01 | 1.80 | 50.84 | |
| 0+064.99 | | | 1.02 | | 50.84 | Pozo 462 - pozo 461 (Zanja para tubería Ø250mm) |
| 0+070.00 | 5.01 | 0.70 | 1.27 | 4.02 | 54.86 | |
| 0+080.00 | 10.00 | 0.70 | 1.18 | 8.58 | 63.44 | |
| 0+090.00 | 10.00 | 0.70 | 1.19 | 8.30 | 71.74 | |
| 0+100.00 | 10.00 | 0.70 | 1.16 | 8.23 | 79.97 | |
| 0+110.00 | 10.00 | 0.70 | 1.05 | 7.74 | 87.71 | |
| 0+120.00 | 10.00 | 0.70 | 1.07 | 7.42 | 95.13 | |
| 0+126.40 | 6.40 | 0.70 | 1.00 | 4.64 | 99.77 | |
| 0+128.80 | | | 1.25 | | 99.77 | Pozo 461 - pozo 460 (Zanja para tubería Ø250mm) |
| 0+130.00 | 1.20 | 0.70 | 1.21 | 1.03 | 100.80 | |
| 0+140.00 | 10.00 | 0.70 | 1.23 | 8.54 | 109.34 | |
| 0+144.40 | 4.40 | 0.70 | 1.25 | 3.82 | 113.16 | |
| TOTAL : | 137.95 | | | 113.16 | m³. | |

| ABSCISAS | | Excavación para pozos de revisión | | | | |
|----------------|-----------|-----------------------------------|------------|---------------|-------------------|---------------------------------|
| ABSCISAS | LARGO (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+095.83 | 2.40 | 2.40 | 1.60 | 9.22 | 9.22 | Pozo 636, Av. Emiliano Ortega |
| 0+045.33 | 2.40 | 2.40 | 1.19 | 6.85 | 16.07 | Pozo 675, Av. Emiliano Ortega |
| 0+000.00 | 2.40 | 2.40 | 1.20 | 6.91 | 22.98 | Pozo 637, Av. Emiliano Ortega |
| 0+058.53 | 2.40 | 2.40 | 1.95 | 11.23 | 34.21 | Pozo 570, Calle 24 de Mayo |
| 0+053.75 | 2.40 | 2.40 | 0.77 | 4.44 | 38.65 | Pozo 592, Calle J. A. Eguiguren |
| 0+000.00 | 2.40 | 2.40 | 1.12 | 6.45 | 45.10 | Pozo 644, Av. Emiliano Ortega |
| 0+063.00 | 2.40 | 2.40 | 0.95 | 5.47 | 50.57 | Pozo 645, Av. Emiliano Ortega |
| 0+128.82 | 2.40 | 2.40 | 1.23 | 7.08 | 57.65 | Pozo 476, Av. Emiliano Ortega |
| 0+115.82 | 2.40 | 2.40 | 1.23 | 7.08 | 64.73 | Pozo 476', Av. Emiliano Ortega |
| 0+177.80 | 3.30 | 3.30 | 1.72 | 18.73 | 76.38 | Pozo 674, Av. Emiliano Ortega |
| 0+263.41 | 3.30 | 3.30 | 1.90 | 20.69 | 97.07 | Pozo 457, Av. Emiliano Ortega |
| 0+000.00 | 2.40 | 2.40 | 1.33 | 7.66 | 104.73 | Pozo 575, Calle Macará |
| 0+061.65 | 2.40 | 2.40 | 1.24 | 7.14 | 111.87 | Pozo 574, Calle Macará |
| 0+120.19 | 2.40 | 2.40 | 1.25 | 7.20 | 119.07 | Pozo 475, Calle Macará |
| 0+188.45 | 2.40 | 2.40 | 1.35 | 7.78 | 126.85 | Pozo 468, Calle Macará |
| 0+244.06 | 3.30 | 3.30 | 1.35 | 14.70 | 141.55 | Pozo 455, Calle Macará |
| 0+054.18 | 3.30 | 3.30 | 2.25 | 24.50 | 166.05 | Pozo 456, Calle Azuay |
| 0+033.88 | 3.30 | 3.30 | 1.44 | 15.68 | 181.73 | Pozo 314, Calle Lourdes |
| 0+064.64 | 3.30 | 3.30 | 1.33 | 14.48 | 196.21 | Pozo 313, Calle Lourdes |
| 0+135.57 | 3.30 | 3.30 | 1.47 | 16.01 | 212.22 | Pozo 312, Calle Lourdes |
| 0+190.61 | 2.40 | 2.40 | 1.10 | 6.34 | 218.56 | Pozo 311, Calle Lourdes |
| 0+063.79 | 2.40 | 2.40 | 1.10 | 6.34 | 224.90 | Pozo 462, Av. Emiliano Ortega |
| 0+127.60 | 2.40 | 2.40 | 1.10 | 6.34 | 231.24 | Pozo 461, Av. Emiliano Ortega |
| 0+145.60 | 2.40 | 2.40 | 1.10 | 6.34 | 237.58 | Pozo 460, Frente a estadio |
| TOTAL : | | | | 244.66 | m³. | |

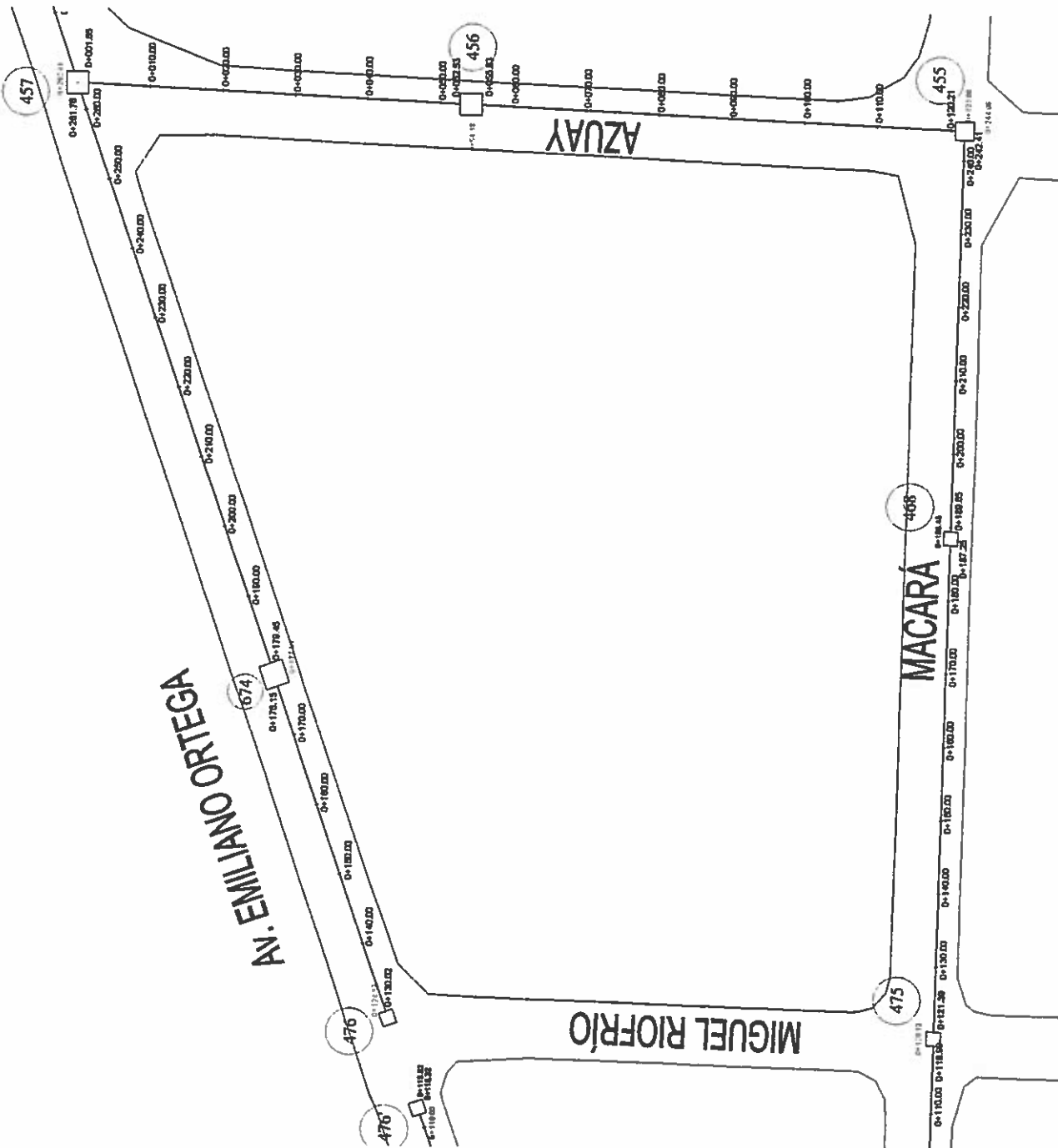
EXCAVACIÓN A MAQUINA PARA ZANJAS Y POZOS



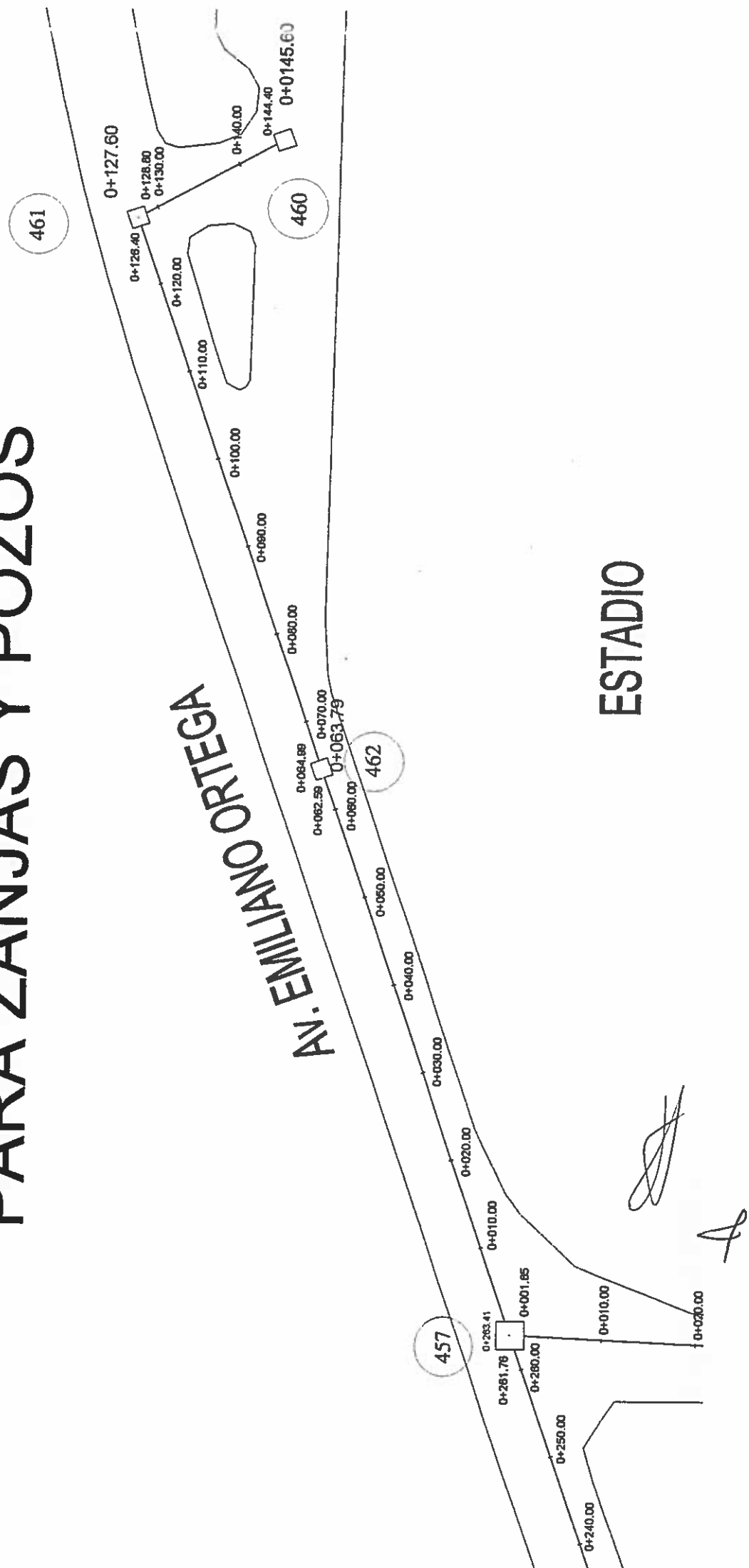
Av. ENILIANO ORTEGA



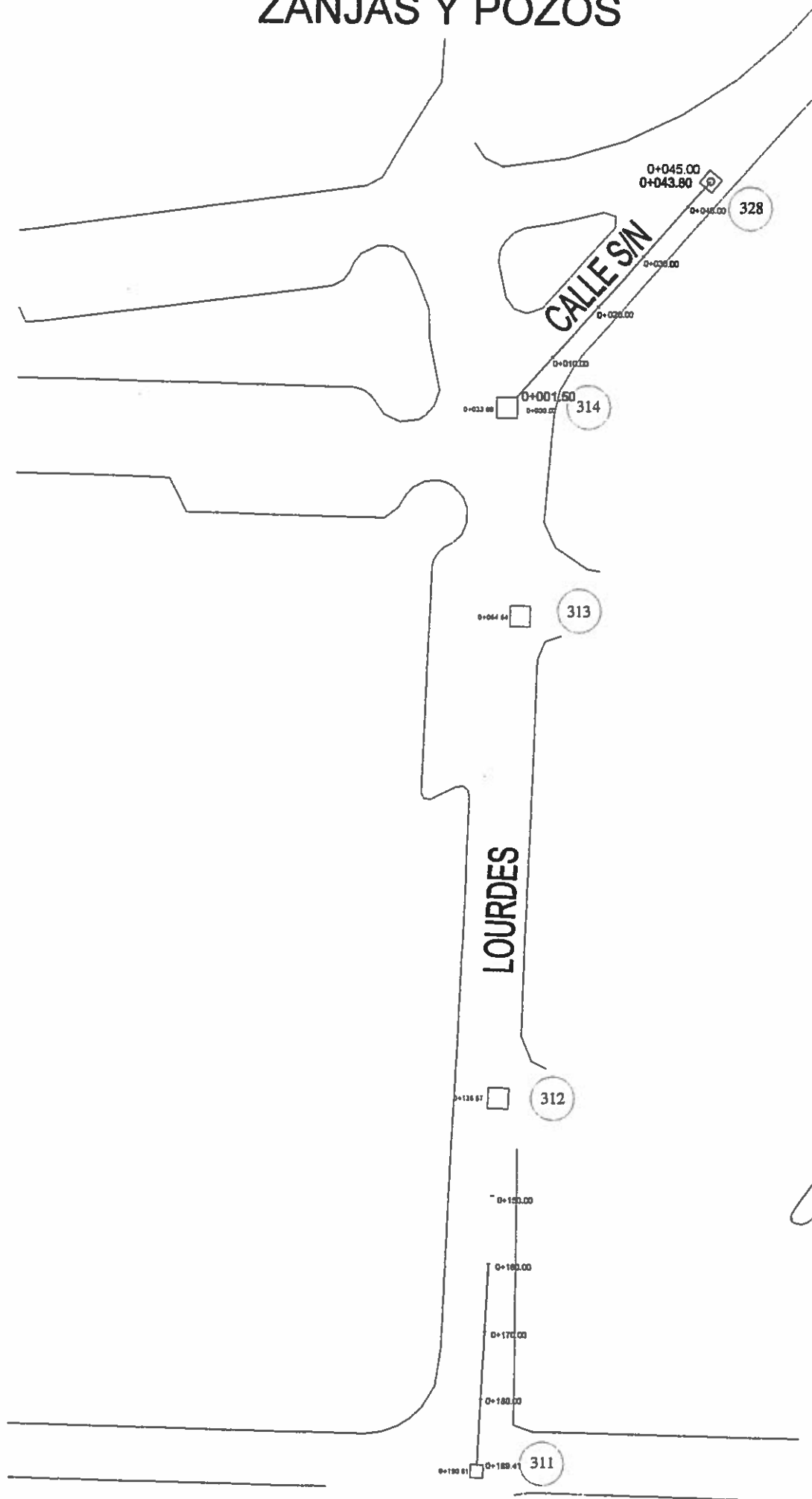
EXCAVACIÓN A MAQUINA PARA ZANJAS Y POZOS



EXCAVACIÓN A MAQUINA PARA ZANJAS Y POZOS



EXCAVACIÓN A MAQUINA PARA ZANJAS Y POZOS





MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO
SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 334

CAPITULO:

ALCANTARILLADO SANITARIO

SUBCAPITULO:

PROVISIÓN E INSTALACIÓN DE TUBERÍAS Y ACCESORIOS

AASS004 Excavación a máquina H=2.01-4 m

UNIDAD: M3

| ABSCISAS | | LONG. | VOLUMEN | OBSERVACIONES |
|---|----------|--------|---------|--|
| DESDE | HASTA | (m) | (M3) | |
| EXCAVACIÓN DE ZANJAS PARA COLOCACIÓN DE TUBERÍA | | | | |
| 0+000.00 | 0+160.00 | 150.10 | 320.37 | Calle Lourdes entre Av. Emiliano Ortega y Macará |
| | | | | |
| TOTAL = | | 320.37 | M3 | |

ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015

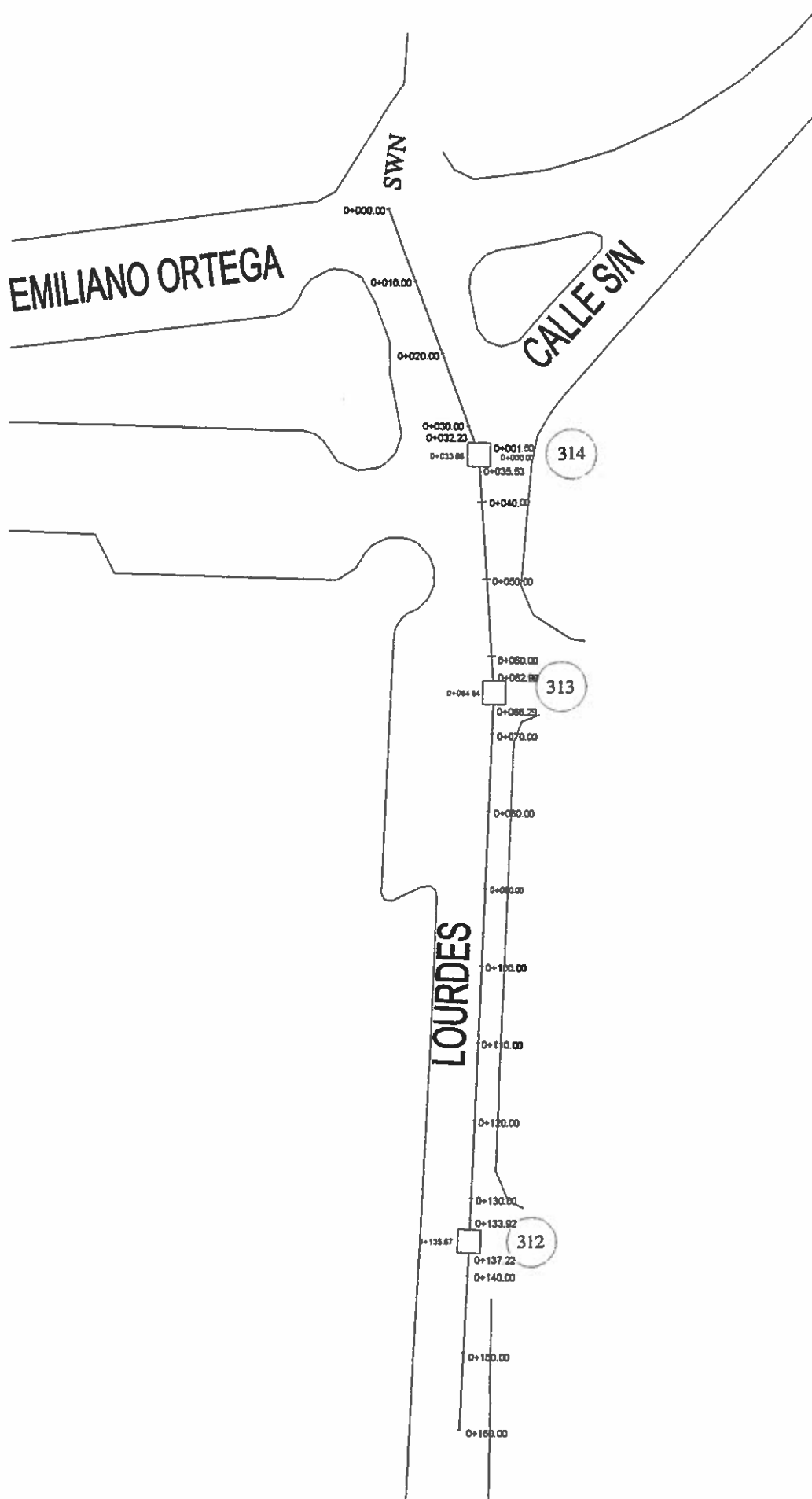
ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

f

AASS004 Excavación a máquina H=2.01-4 m

| ABSCISAS | | 0+000.00 - | 0+160.00 | Calle Lourdes entre Av. Emiliano Ortega y Macará | | |
|----------------|-----------------|--------------|---------------|--|----------------------|--|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.00 | | | 2.26 | | | Pozo colector SWN a pozo 314 (Zanja para tubería Ø400mm) |
| 0+010.00 | 10.00 | 1.00 | 2.21 | 22.35 | 22.35 | |
| 0+020.00 | 10.00 | 1.00 | 2.22 | 22.15 | 44.50 | |
| 0+030.00 | 10.00 | 1.00 | 2.20 | 22.10 | 66.60 | |
| 0+032.23 | 2.23 | 1.00 | 2.25 | 4.96 | 71.56 | |
| 0+035.53 | | | 2.27 | | 71.56 | Pozo 314 - pozo 313 (Zanja para tubería Ø400mm) |
| 0+040.00 | 4.47 | 1.00 | 2.13 | 9.83 | 81.39 | |
| 0+050.00 | 10.00 | 1.00 | 2.18 | 21.55 | 102.94 | |
| 0+060.00 | 10.00 | 1.00 | 2.18 | 21.80 | 124.74 | |
| 0+062.99 | 2.99 | 1.00 | 2.18 | 6.52 | 131.26 | |
| 0+066.29 | | | 2.09 | | 131.26 | Pozo 313 - pozo 312 (Zanja para tubería Ø400mm) |
| 0+070.00 | 3.71 | 1.00 | 2.13 | 7.83 | 139.09 | |
| 0+080.00 | 10.00 | 1.00 | 2.11 | 21.20 | 160.29 | |
| 0+090.00 | 10.00 | 1.00 | 2.15 | 21.30 | 181.59 | |
| 0+100.00 | 10.00 | 1.00 | 2.23 | 21.90 | 203.49 | |
| 0+110.00 | 10.00 | 1.00 | 2.21 | 22.20 | 225.69 | |
| 0+120.00 | 10.00 | 1.00 | 2.15 | 21.80 | 247.49 | |
| 0+130.00 | 10.00 | 1.00 | 2.22 | 21.85 | 269.34 | |
| 0+133.92 | 3.92 | 1.00 | 2.17 | 8.60 | 277.94 | |
| 0+137.22 | | | 2.20 | | 277.94 | Pozo 312 - pozo 311 (Zanja para tubería Ø350mm) |
| 0+140.00 | 2.78 | 0.93 | 2.13 | 5.60 | 283.54 | |
| 0+150.00 | 10.00 | 0.93 | 1.96 | 19.02 | 302.56 | |
| 0+160.00 | 10.00 | 0.93 | 1.87 | 17.81 | 320.37 | |
| TOTAL : | 150.10 | | | 320.37 | m³. | |

EXCAVACIÓN A MAQUINA PARA ZANJAS Y POZOS H=2.01-4m





MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 337

CAPITULO:
SUBCAPITULO:
AASS007 Rasanteo de zanja

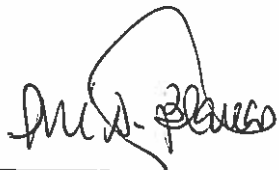
ALCANTARILLADO SANITARIO
PROVISIÓN E INSTALACIÓN DE TUBERÍAS Y ACCESORIOS
UNIDAD: ML

| ABSCISAS | | LONG. | OBSERVACIONES |
|----------|----------|--------|---|
| DESDE | HASTA | (ML) | |
| 0+000.60 | 0+095.23 | 93.43 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| 0+000.60 | 0+057.93 | 57.33 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren |
| 0+000.60 | 0+053.15 | 52.55 | Calle J.A. Eguiguren entre 24 de Mayo y Bustamante |
| 0+000.60 | 0+029.15 | 28.55 | Calle Rocafuerte entre Av. Emiliano Ortega y Macará |
| 0+000.60 | 0+262.31 | 411.67 | Av. Emiliano Ortega entre Rocafuerte y Estadio |
| 0+000.60 | 0+242.96 | 238.76 | Calle Macará desde Rocafuerte hasta Azuay |
| 0+001.10 | 0+120.76 | 117.46 | Calle Azuay entre Av. Emiliano Ortega y Macará |
| 0+000.00 | 0+190.01 | 183.41 | Calle Lourdes entre Av. Emiliano Ortega y Macará |
| 0+001.10 | 0+044.40 | 43.30 | Calle s/n desde Lourdes hasta Av. Emiliano Ortega |
| | | | |

TOTAL = 1 226.46 ML



ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015



ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

2

AASS007 Rasanteo de zanja

| ABSCISAS | | 0+000.60 - | 0+095.23 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
|----------|----------|--------------|----------------------|--|
| ABSCISAS | | LONG (ml) | OBSERVACIONES | |
| INICIO | FIN | | | |
| 0+000.60 | 0+044.73 | 44.13 | desde pozo 637 a 675 | |
| 0+045.93 | 0+095.23 | 49.30 | desde pozo 675 a 636 | |
| | | | | |
| TOTAL : | | 93.43 | ml | |

Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren

| | | | |
|----------|----------|--------------|----------------------|
| ABSCISAS | | 0+000.60 - | 0+057.93 |
| ABSCISAS | | LONG (ml) | OBSERVACIONES |
| INICIO | FIN | | |
| 0+000.60 | 0+057.93 | 57.33 | desde pozo 637 a 570 |
| TOTAL : | | 57.33 | ml |

| | | | | |
|----------|----------|--------------|----------------------|--|
| ABSCISAS | | 0+000.60 - | 0+053.15 | Calle J.A. Eguiguren entre 24 de Mayo y Bustamante |
| ABSCISAS | | LONG (ml) | OBSERVACIONES | |
| INICIO | FIN | | | |
| 0+000.60 | 0+053.15 | 52.55 | desde pozo 570 a 592 | |
| | | | | |
| TOTAL : | | 52.55 | ml | |

| ABSCISAS | | 0+000.60 - | 0+029.15 | Calle Rocafuerte entre Av. Emiliano Ortega y Macará |
|----------|----------|--------------|----------------------|---|
| ABSCISAS | | LONG (ml) | OBSERVACIONES | |
| INICIO | FIN | | | |
| 0+000.60 | 0+029.15 | 28.55 | desde pozo 644 a 575 | |
| | | | | |
| TOTAL : | | 28.55 | ml | |

| ABSCISAS | | 0+000.60 - | 0+262.31 | Av. Emiliano Ortega entre Rocafuerte y Estadio |
|----------|----------|--------------|------------------------|--|
| ABSCISAS | | LONG (ml) | OBSERVACIONES | |
| INICIO | FIN | | | |
| 0+000.60 | 0+022.67 | 22.07 | desde pozo 644 a 643 | |
| 0+023.87 | 0+027.86 | 3.99 | desde pozo 643 a SW244 | |
| 0+000.60 | 0+062.40 | 61.80 | desde pozo 644 a 645 | |
| 0+063.60 | 0+115.22 | 51.62 | desde pozo 645 a 476 | |
| 0+129.42 | 0+176.70 | 47.28 | desde pozo 476 a 674 | |
| 0+178.90 | 0+262.31 | 83.41 | desde pozo 674 a 457 | |
| 0+001.10 | 0+063.19 | 62.09 | desde pozo 457 a 462 | |
| 0+064.39 | 0+127.00 | 62.61 | desde pozo 462 a 461 | |
| 0+128.20 | 0+145.00 | 16.80 | desde pozo 461 a 460 | |
| TOTAL : | | 411.67 ml | | |

| ABSCISAS | | 0+000.60 - | 0+242.96 | Calle Macará desde Rocafuerte hasta Azuay |
|----------|----------|--------------|----------------------|---|
| ABSCISAS | | LONG (ml) | OBSERVACIONES | |
| INICIO | FIN | | | |
| 0+000.60 | 0+061.05 | 60.45 | desde pozo 575 a 574 | |
| 0+062.25 | 0+119.59 | 57.34 | desde pozo 574 a 475 | |
| 0+120.79 | 0+187.85 | 67.06 | desde pozo 475 a 468 | |
| 0+189.05 | 0+242.96 | 53.91 | desde pozo 468 a 455 | |
| | | | | |

TOTAL : 238.76 ml

ABSCISAS 0+001.10 - 0+120.76 Calle Azuay entre Av. Emiliano Ortega y Macará

| ABSCISAS | | LONG (ml) | OBSERVACIONES |
|----------------|----------|--------------|----------------------|
| INICIO | FIN | | |
| 0+001.10 | 0+053.08 | 51.98 | desde pozo 457 a 456 |
| 0+055.28 | 0+120.76 | 65.48 | desde pozo 456 a 455 |
| TOTAL : | | 117.46 | ml |

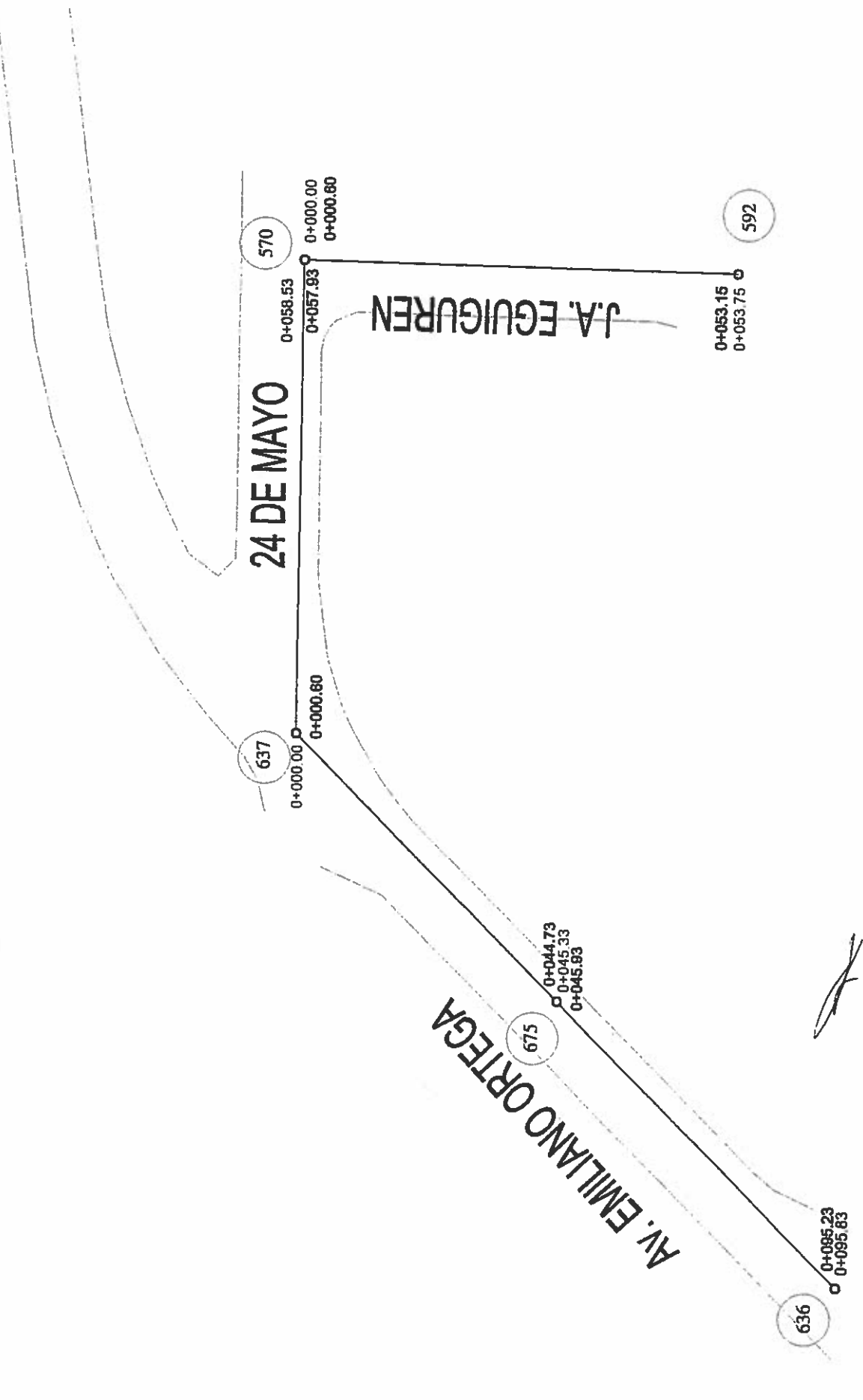
ABSCISAS 0+000.00 - 0+190.01 Calle Lourdes entre Av. Emiliano Ortega y Macará

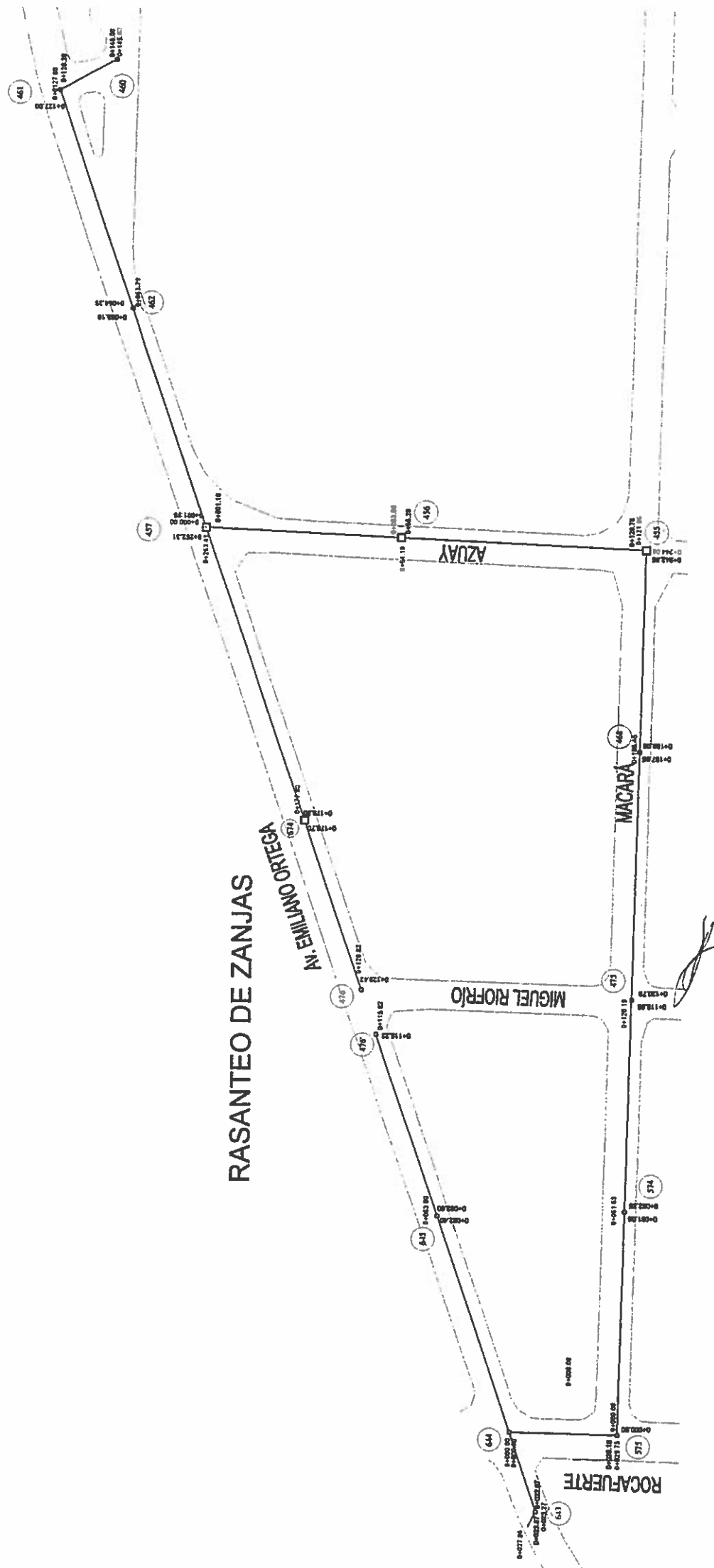
| ABSCISAS | | LONG (ml) | OBSERVACIONES |
|----------------|----------|--------------|--------------------------------|
| INICIO | FIN | | |
| 0+000.00 | 0+032.78 | 32.78 | desde pozo colector a pozo 314 |
| 0+034.98 | 0+063.54 | 28.56 | desde pozo 314 a 313 |
| 0+065.74 | 0+134.47 | 68.73 | desde pozo 313 a 312 |
| 0+136.67 | 0+190.01 | 53.34 | desde pozo 312 a 311 |
| TOTAL : | | 183.41 | ml |

ABSCISAS 0+001.10 - 0+044.40 Calle s/n desde Lourdes hasta Av. Emiliano Ortega

| ABSCISAS | | LONG (ml) | OBSERVACIONES |
|----------------|----------|--------------|----------------------|
| INICIO | FIN | | |
| 0+001.10 | 0+044.40 | 43.30 | desde pozo 314 a 328 |
| TOTAL : | | 43.30 | ml |

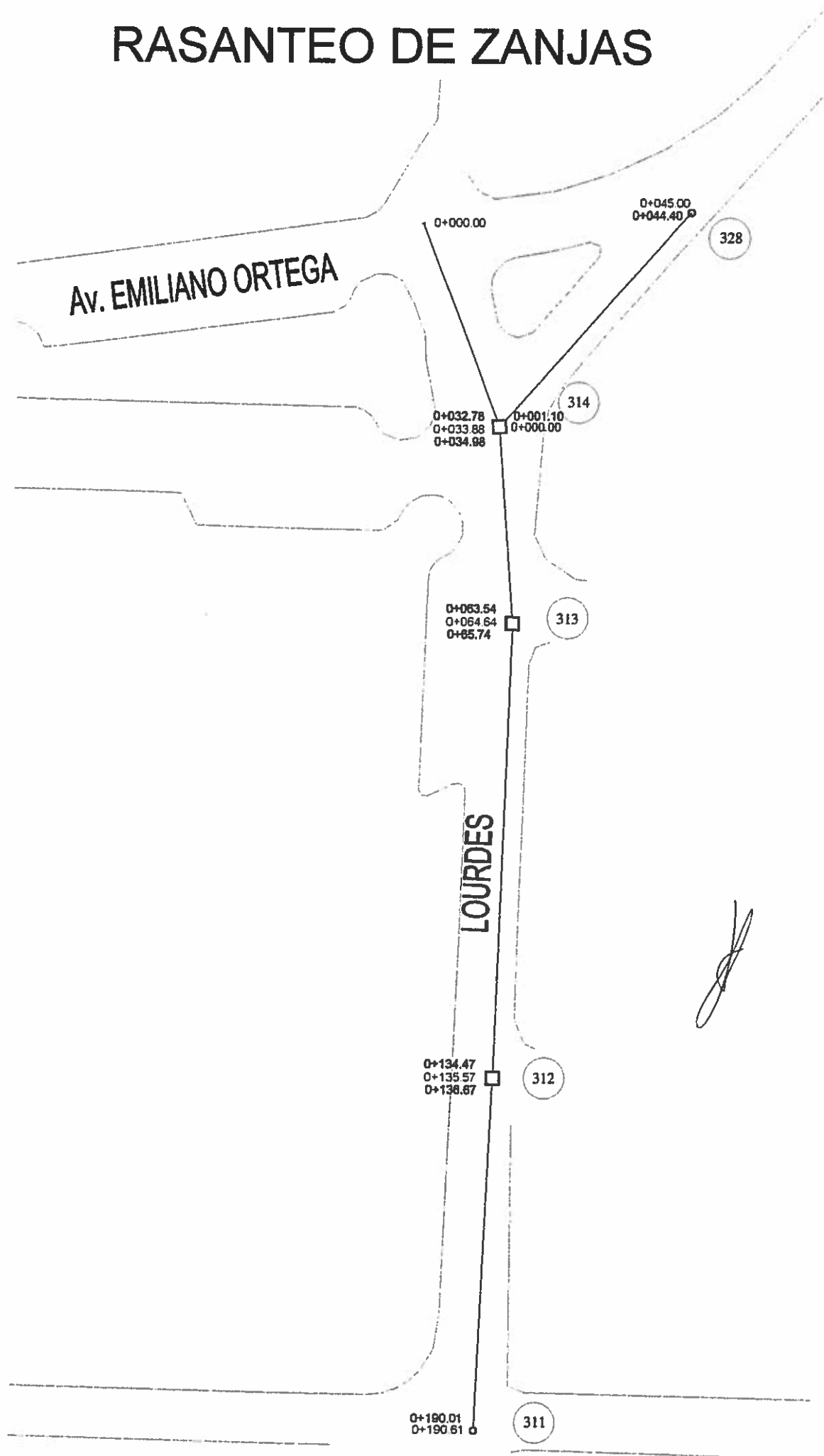
RASANTEO DE ZANJAS





4

RASANTEO DE ZANJAS



**MUNICIPIO DE LOJA****PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO
SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"****CONTRATISTA:**
FISCALIZACIÓN:**CONSORCIO LOJA 2015**
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.**PLANILLA: 1**
PERIODO: MARZO/2016
RUBRO: 338**CAPITULO:****ALCANTARILLADO SANITARIO****SUBCAPITULO:****PROVISIÓN E INSTALACIÓN DE TUBERÍAS Y ACCESORIOS****AASS008 Relleno compactado con compactador mecánico (material del sitio) UNIDAD: M3**

| ABSCISAS | | LONG. | VOLUMEN | OBSERVACIONES |
|----------------------------|----------|--------|---------|---|
| DESDE | HASTA | (m) | (M3) | |
| RELLENO EN ZANJAS | | | | |
| 0+000.60 | 0+095.23 | 93.43 | 52.09 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| 0+000.60 | 0+057.93 | 57.33 | 47.95 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren |
| 0+000.60 | 0+262.31 | 245.31 | 163.46 | Av. Emiliano Ortega entre Rocafuerte y Azuay |
| 0+000.60 | 0+029.15 | 28.55 | 22.68 | Calle Rocafuerte ente Av. Emiliano Ortega y Macará |
| 0+001.10 | 0+120.76 | 117.46 | 136.41 | Calle Azuay entre Av. Emiliano Ortega y Macará |
| 0+000.60 | 0+242.96 | 238.76 | 124.79 | Calle Macará entre Rocafuerte y Azuay |
| 0+000.60 | 0+027.86 | 24.86 | 17.42 | Av. Emiliano Ortega desde Rocafuerte a colector existente |
| 0+001.10 | 0+145.00 | 141.50 | 68.48 | Av. Emiliano Ortega desde Azuay a Estadio |
| | | | | |
| RELLENO ALREDEDOR DE POZOS | | | | |
| 7 POZOS TIPO I | | | 36.12 | |
| | | | | |
| RELLENO EN CALLE AZUAY | | | | |
| 0+010.00 | 0+103.70 | 101.50 | 183.76 | Calle Azuay entre Av. Emiliano Ortega y Macará |
| | | | | |
| TOTAL = | | 853.16 | M3 | |


ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015
ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

AASS008 Relleno compactado con compactador mecánico (material del sitio)

| ABSCISAS | | 0+000.60 - | | 0+095.23 | | Av. Emiliano Ortega entre 24 de Mayo y Colón | |
|---|-----------------|--------------|---------------|-----------------|----------------------|--|--|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES | |
| 0+000.60 | | | 0.56 | | | Pozo 637 - pozo 675 | |
| 0+010.00 | 9.40 | 0.70 | 0.64 | 3.95 | 3.95 | | |
| 0+020.00 | 10.00 | 0.70 | 0.65 | 4.52 | 8.47 | | |
| 0+030.00 | 10.00 | 0.70 | 0.57 | 4.27 | 12.74 | | |
| 0+040.00 | 10.00 | 0.70 | 0.65 | 4.27 | 17.01 | | |
| 0+044.73 | 4.73 | 0.70 | 0.65 | 2.15 | 19.16 | | |
| 0+045.93 | | | 0.65 | | 19.16 | Pozo 675 - pozo 636 | |
| 0+050.00 | 4.07 | 0.70 | 0.79 | 2.05 | 21.21 | | |
| 0+060.00 | 10.00 | 0.70 | 0.79 | 5.53 | 26.74 | | |
| 0+070.00 | 10.00 | 0.70 | 0.85 | 5.74 | 32.48 | | |
| 0+080.00 | 10.00 | 0.70 | 1.43 | 7.98 | 40.46 | | |
| 0+090.00 | 10.00 | 0.70 | 0.91 | 8.19 | 48.65 | | |
| 0+095.23 | 5.23 | 0.70 | 0.97 | 3.44 | 52.09 | | |
| NOTA: todas las alturas, son las de excavación restado las alturas de cama de arena, tubería y relleno con arena amarilla | | | | | | | |
| TOTAL : | 93.43 | | | 52.09 | m³. | | |

| ABSCISAS | | 0+000.60 - | 0+057.93 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren | | |
|---|-----------------|--------------|---------------|---|----------------------|---------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | 1.01 | | | Pozo 637 - pozo 570 |
| 0+010.00 | 9.40 | 0.70 | 1.01 | 6.65 | 6.65 | |
| 0+020.00 | 10.00 | 0.70 | 1.11 | 7.42 | 14.07 | |
| 0+030.00 | 10.00 | 0.70 | 1.28 | 8.37 | 22.44 | |
| 0+040.00 | 10.00 | 0.70 | 1.32 | 9.10 | 31.54 | |
| 0+050.00 | 10.00 | 0.70 | 1.25 | 9.00 | 40.54 | |
| 0+057.93 | 7.93 | 0.70 | 1.42 | 7.41 | 47.95 | |
| NOTA: todas las alturas, son las de excavación restado las alturas de cama de arena, tubería y relleno con arena amarilla | | | | | | |
| TOTAL : | 57.33 | | | 47.95 | m³. ✓ | |

| ABSCISAS | | 0+000.60 - | 0+262.31 | Av. Emiliano Ortega entre Rocafuerte y Azuay | | |
|----------|--------------|------------|------------|--|-------------------|----------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | 0.60 | | | Pozo 644 - pozo 645 |
| 0+010.00 | 9.40 | 0.70 | 0.51 | 3.65 | 3.65 | |
| 0+020.00 | 10.00 | 0.70 | 0.43 | 3.29 | 6.94 | |
| 0+030.00 | 10.00 | 0.70 | 0.35 | 2.73 | 9.67 | |
| 0+040.00 | 10.00 | 0.70 | 0.36 | 2.49 | 12.16 | |
| 0+050.00 | 10.00 | 0.70 | 0.40 | 2.66 | 14.82 | |
| 0+060.00 | 10.00 | 0.70 | 0.54 | 3.29 | 18.11 | |
| 0+062.40 | 2.40 | 0.70 | 0.49 | 0.87 | 18.98 | |
| 0+063.60 | | | 0.49 | | 18.98 | Pozo 645 - pozo 476' |
| 0+070.00 | 6.40 | 0.70 | 0.53 | 2.28 | 21.26 | |
| 0+080.00 | 10.00 | 0.70 | 0.50 | 3.61 | 24.87 | |
| 0+090.00 | 10.00 | 0.70 | 0.44 | 3.29 | 28.16 | |
| 0+100.00 | 10.00 | 0.70 | 0.48 | 3.22 | 31.38 | |
| 0+110.00 | 10.00 | 0.70 | 0.57 | 3.68 | 35.06 | |
| 0+115.22 | 5.22 | 0.70 | 0.63 | 2.19 | 37.25 | |
| 0+128.22 | | | 0.76 | | 37.25 | Pozo 476 - pozo 674 |
| 0+140.00 | 11.78 | 0.70 | 0.59 | 5.57 | 42.82 | |
| 0+150.00 | 10.00 | 0.70 | 0.65 | 4.34 | 47.16 | |
| 0+160.00 | 10.00 | 0.70 | 0.71 | 4.76 | 51.92 | |
| 0+170.00 | 10.00 | 0.70 | 0.79 | 5.25 | 57.17 | |
| 0+176.70 | 6.70 | 0.70 | 0.82 | 3.78 | 60.95 | |

4

| | | | | | | |
|---|--------|------|------|--------|--------|---------------------|
| 0+062.25 | | | 0.68 | | 26.60 | Pozo 574 - pozo 475 |
| 0+070.00 | 7.75 | 0.70 | 0.73 | 3.82 | 30.42 | |
| 0+080.00 | 10.00 | 0.70 | 0.72 | 5.08 | 35.50 | |
| 0+090.00 | 10.00 | 0.70 | 0.75 | 5.15 | 40.65 | |
| 0+100.00 | 10.00 | 0.70 | 0.96 | 5.99 | 46.64 | |
| 0+110.00 | 10.00 | 0.70 | 0.98 | 6.79 | 53.43 | |
| 0+119.59 | 9.59 | 0.70 | 0.98 | 6.58 | 60.01 | |
| 0+120.79 | | | 0.98 | | 60.01 | Pozo 475 - pozo 468 |
| 0+130.00 | 9.21 | 0.70 | 0.79 | 5.71 | 65.72 | |
| 0+140.00 | 10.00 | 0.70 | 0.76 | 5.43 | 71.15 | |
| 0+150.00 | 10.00 | 0.70 | 0.74 | 5.25 | 76.40 | |
| 0+160.00 | 10.00 | 0.70 | 0.70 | 5.04 | 81.44 | |
| 0+170.00 | 10.00 | 0.70 | 0.76 | 5.11 | 86.55 | |
| 0+180.00 | 10.00 | 0.70 | 0.85 | 5.64 | 92.19 | |
| 0+187.85 | 7.85 | 0.70 | 0.79 | 4.51 | 96.70 | Pozo 468 - pozo 455 |
| 0+189.05 | | | 0.77 | | 96.70 | |
| 0+200.00 | 10.95 | 0.70 | 0.80 | 6.02 | 102.72 | |
| 0+210.00 | 10.00 | 0.70 | 0.67 | 5.15 | 107.87 | |
| 0+220.00 | 10.00 | 0.70 | 0.69 | 4.76 | 112.63 | |
| 0+230.00 | 10.00 | 0.70 | 0.73 | 4.97 | 117.60 | |
| 0+240.00 | 10.00 | 0.70 | 0.83 | 5.46 | 123.06 | |
| 0+242.96 | 2.96 | 0.70 | 0.84 | 1.73 | 124.79 | |
| NOTA: todas las alturas, son las de excavación restado las alturas de cama de arena, tubería y relleno con arena amarilla | | | | | | |
| TOTAL : | 238.76 | | | 124.79 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+027.86 | Av. Emiliano Ortega desde Rocafuerte a colector existente | | |
|---|-----------------|--------------|---------------|---|----------------------|--------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | 1.13 | | | Pozo 644 - pozo 643 |
| 0+010.00 | 9.40 | 0.70 | 1.04 | 7.14 | 7.14 | |
| 0+020.00 | 10.00 | 0.70 | 0.86 | 6.65 | 13.79 | |
| 0+022.07 | 2.07 | 0.70 | 0.87 | 1.38 | 15.17 | |
| 0+024.47 | | | 0.83 | | | Pozo 643 - pozo colector SW244 |
| 0+027.86 | 3.39 | 0.70 | 1.07 | 2.25 | 17.42 | |
| NOTA: todas las alturas, son las de excavación restado las alturas de cama de arena, tubería y relleno con arena amarilla | | | | | | |
| TOTAL : | 24.86 | | | 17.42 | m³. | |

| ABSCISAS | | 0+001.10 - | 0+145.00 | Av. Emiliano Ortega desde Azuay a Estadio | | |
|---|-----------------|--------------|---------------|---|----------------------|---------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.10 | | | 0.83 | | | Pozo 457 - pozo 462 |
| 0+010.00 | 8.90 | 0.70 | 0.76 | 4.95 | 4.95 | |
| 0+020.00 | 10.00 | 0.70 | 0.69 | 5.08 | 10.03 | |
| 0+030.00 | 10.00 | 0.70 | 1.12 | 6.34 | 16.37 | |
| 0+040.00 | 10.00 | 0.70 | 0.58 | 5.95 | 22.32 | |
| 0+050.00 | 10.00 | 0.70 | 0.52 | 3.85 | 26.17 | |
| 0+060.00 | 10.00 | 0.70 | 0.50 | 3.57 | 29.74 | |
| 0+063.19 | 3.19 | 0.70 | 0.53 | 1.15 | 30.89 | |
| 0+064.39 | | | 0.54 | | 30.89 | Pozo 462 - pozo 461 |
| 0+070.00 | 5.61 | 0.70 | 0.79 | 2.61 | 33.50 | |
| 0+080.00 | 10.00 | 0.70 | 0.70 | 5.22 | 38.72 | |
| 0+090.00 | 10.00 | 0.70 | 0.71 | 4.94 | 43.66 | |
| 0+100.00 | 10.00 | 0.70 | 0.68 | 4.87 | 48.53 | |
| 0+110.00 | 10.00 | 0.70 | 0.57 | 4.38 | 52.91 | |
| 0+120.00 | 10.00 | 0.70 | 0.59 | 4.06 | 56.97 | |
| 0+127.00 | 7.00 | 0.70 | 0.52 | 2.72 | 59.69 | |
| 0+128.20 | | | 0.77 | | 59.69 | Pozo 461 - pozo 460 |
| 0+130.00 | 1.80 | 0.70 | 0.73 | 0.95 | 60.64 | |
| 0+140.00 | 10.00 | 0.70 | 0.75 | 5.18 | 65.82 | |
| 0+145.00 | 5.00 | 0.70 | 0.77 | 2.66 | 68.48 | |
| NOTA: todas las alturas, son las de excavación restado las alturas de cama de arena, tubería y relleno con arena amarilla | | | | | | |
| TOTAL : | 141.50 | | | 68.48 | m³ | |

| ABSCISAS | | Relleno en contorno de pozos de revisión | | | | |
|----------|-----------------|--|---------------|-----------------|----------------------|---|
| ABSCISAS | LARGO (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+095.83 | 2.40 | 2.40 | 1.60 | 9.22 | 9.22 | Pozo 636, Av. Emiliano Ortega |
| | Area ext. Pozo= | -1.13 | 1.60 | -1.81 | 7.41 | Volumen del pozo a restar |
| | | -0.39 | 0.54 | -0.42 | 6.99 | Volumen de arena y tubería a restar x 2 (tubería por ambos lados) |
| 0+045.33 | 2.40 | 2.40 | 1.19 | 6.85 | 13.84 | Pozo 675, Av. Emiliano Ortega |
| | Area ext. Pozo= | -1.13 | 1.60 | -1.81 | 12.03 | Volumen del pozo a restar |
| | | -0.39 | 0.54 | -0.42 | 11.61 | Volumen de arena y tubería a restar x 2 (tubería por ambos lados) |
| 0+000.00 | 2.40 | 2.40 | 1.20 | 6.91 | 18.52 | Pozo 637, Av. Emiliano Ortega |
| | Area ext. Pozo= | -1.13 | 1.60 | -1.81 | 16.71 | Volumen del pozo a restar |
| | | -0.39 | 0.54 | -0.21 | 16.50 | Volumen de arena y tubería a restar entrada de tub. 300mm |
| | | -0.39 | 0.48 | -0.19 | 16.31 | Volumen de arena y tubería a restar entrada de tub. 250mm |
| 0+000.00 | 2.40 | 2.40 | 1.12 | 6.45 | 22.76 | Pozo 644, Av. Emiliano Ortega |
| | Area ext. Pozo= | -1.13 | 1.60 | -1.81 | 20.95 | Volumen del pozo a restar |
| | | -0.39 | 0.48 | -0.37 | 20.58 | Volumen de arena y tubería a restar x 2 (tubería por ambos lados) |
| 0+063.00 | 2.40 | 2.40 | 0.95 | 5.47 | 26.05 | Pozo 645, Av. Emiliano Ortega |
| | Area ext. Pozo= | -1.13 | 1.60 | -1.81 | 24.24 | Volumen del pozo a restar |
| | | -0.39 | 0.48 | -0.37 | 23.87 | Volumen de arena y tubería a restar x 2 (tubería por ambos lados) |
| 0+000.00 | 2.40 | 2.40 | 1.33 | 7.66 | 31.53 | Pozo 575, Calle Macará |
| | Area ext. Pozo= | -1.13 | 1.60 | -1.81 | 29.72 | Volumen del pozo a restar |
| | | -0.39 | 0.48 | -0.37 | 29.35 | Volumen de arena y tubería a restar x 2 (tubería por ambos lados) |
| 0+061.65 | 2.40 | 2.40 | 1.24 | 7.14 | 36.49 | Pozo 574, Calle Macará |
| | | -0.39 | 0.48 | -0.37 | 36.12 | Volumen de arena y tubería a restar x 2 (tubería por ambos lados) |
| TOTAL : | | | | 36.12 | m³. | |

| ABSCISAS | | 0+010.00 - | 0+113.70 | Relleno en excavación Calle Azuay entre Av. Emiliano O. y Macará | | |
|----------------|---------------|--------------|---------------|--|----------------------|---------------|
| ABSCISAS | LARGO (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+010.00 | | | | | | |
| 0+113.70 | 103.70 | 3.00 | 0.60 | 186.66 | 186.66 | |
| Area pozo | -2.20 | 2.20 | 0.60 | -2.90 | 183.76 | |
| | | | | | | |
| TOTAL : | 101.50 | | | 183.76 | m³. | |




RELLENO COMPACTADO CON
COMPACTADOR MECÁNICO (MATERIAL
DEL SITIO)

24 DE MAYO

J.A. EGUIGUREN

AV. EMILIANO ORTEGA

570

637

675

636

0+058.53
0+060.00
0+057.93

0+000.00
0+000.80

0+010.00

0+020.00

0+030.00

0+040.00

0+050.00

0+060.00

0+070.00

0+080.00

0+090.00

0+095.23
0+095.83

0+095.83

0+095.83

0+095.83

0+095.83

0+095.83

0+095.83

0+095.83

0+095.83

0+095.83

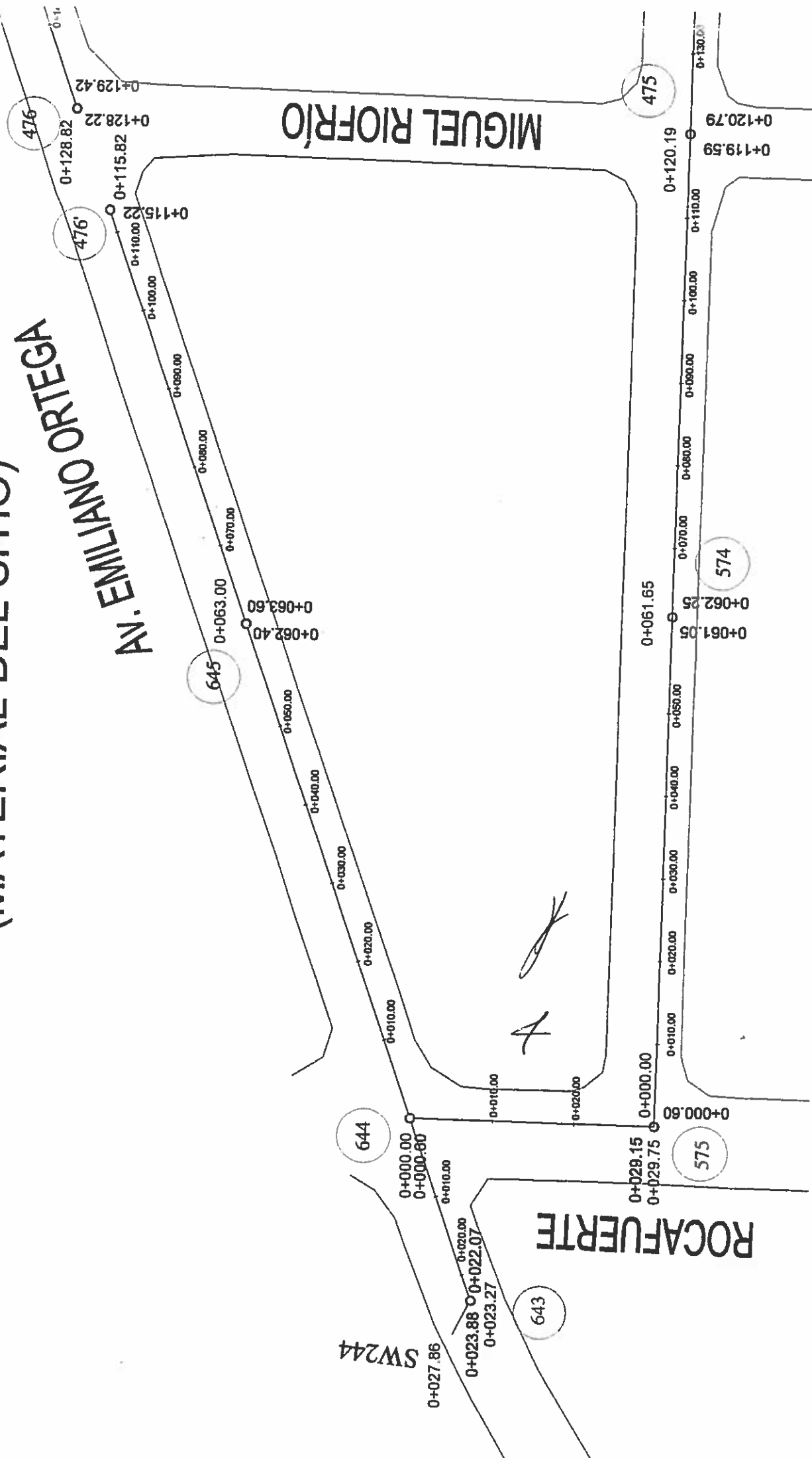
RELLENO COMPACTADO CON
COMPACTADOR MECÁNICO
(MATERIAL DEL SITIO)

AV. EMILIANO ORTEGA

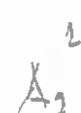
MIGUEL RÍOFRÍO

ROCAFUERTE

SW244



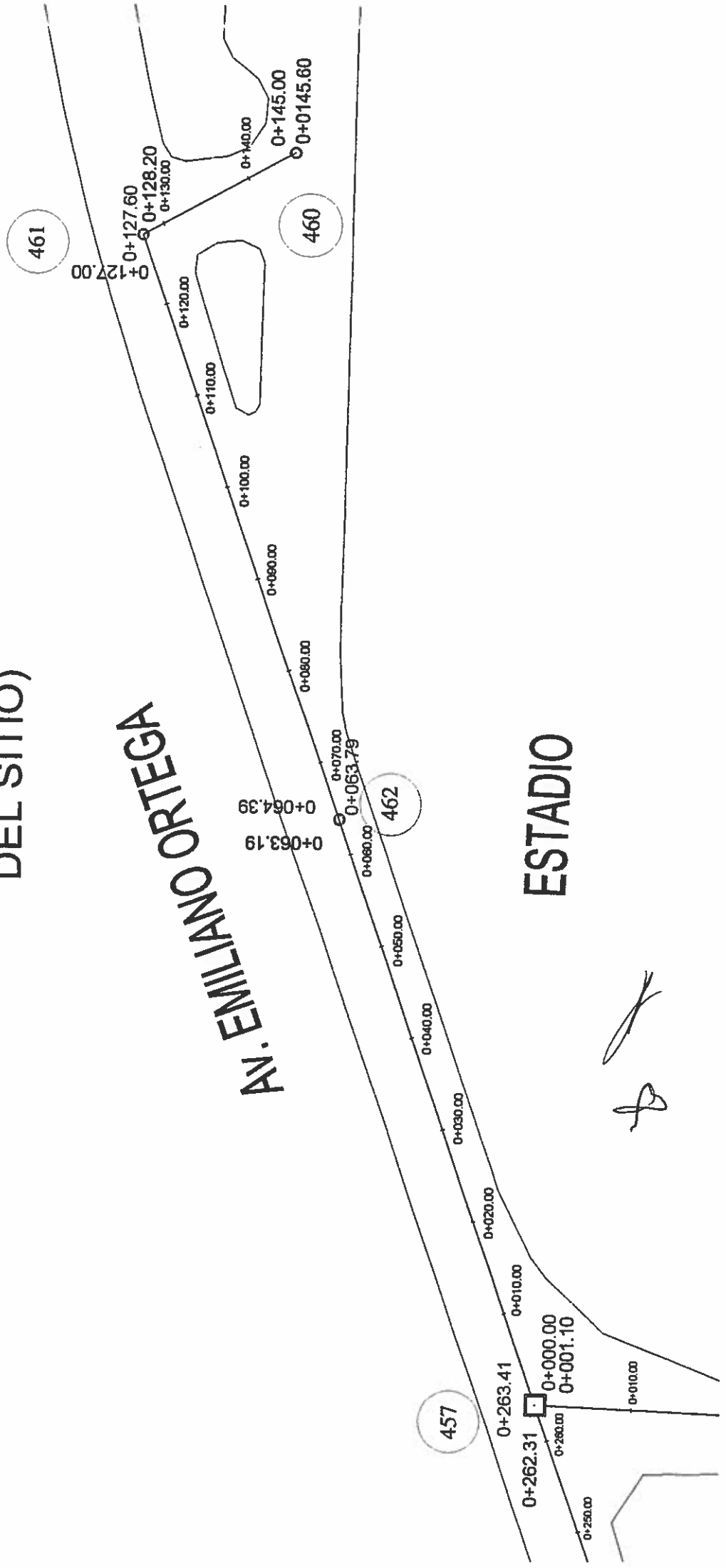
AV. EMILIANO ORTEGA

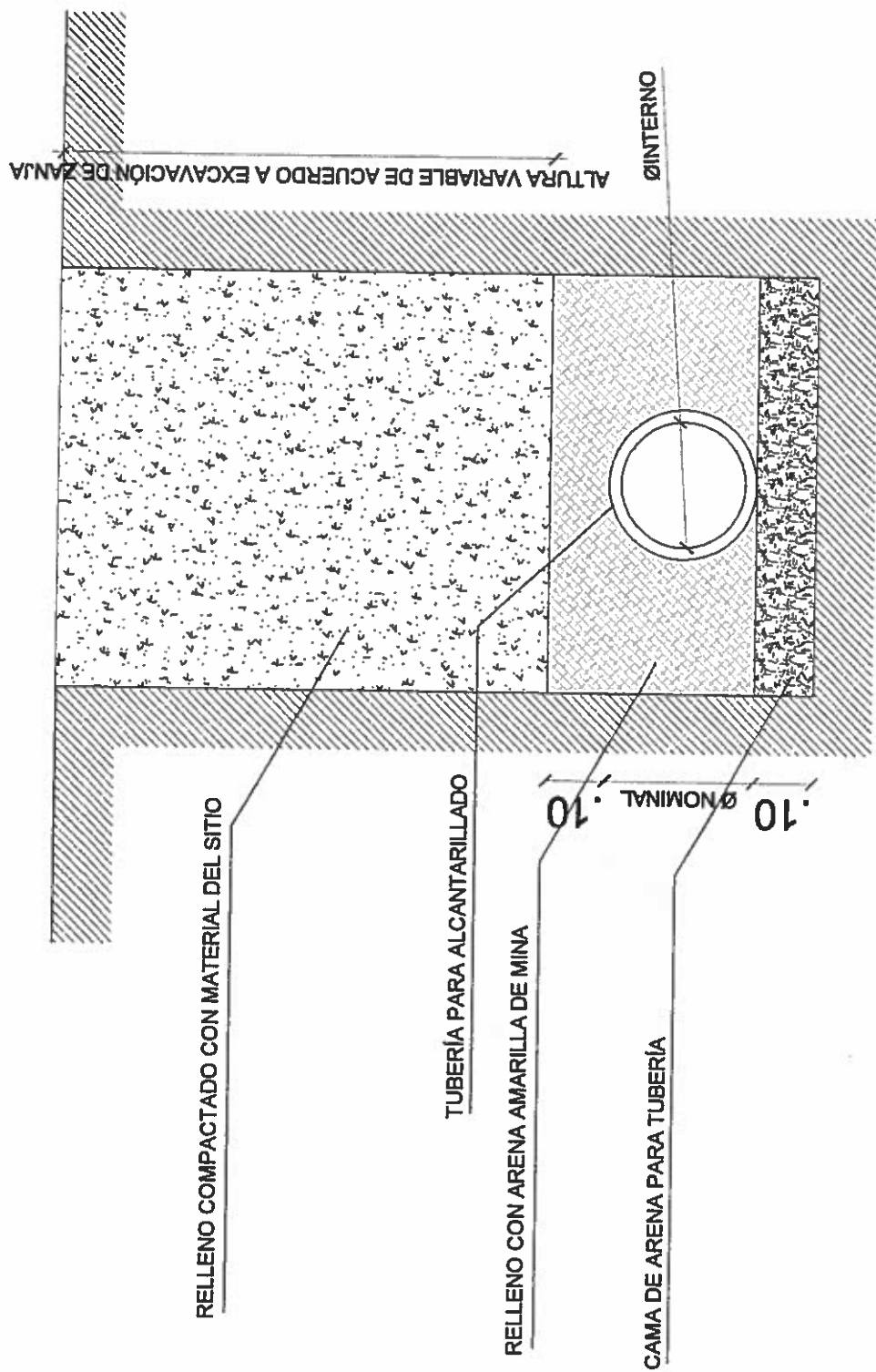


RELLENO COMPACTADO CON
COMPACTADOR MECÁNICO (MATERIAL
DEL SITIO)

AV. EMILIANO ORTEGA

ESTADIO





ANCHO VARIABLE DE ACUERDO A EXCAVACIÓN DE ZANJA

CORTE TIPO DE ZANJA

AV. EMILIANO ORTEGA

RELLENO COMPACTADO CON COMPACTADOR MECÁNICO
(MATERIAL DEL SITIO)

CALE AZULAY

0+010

0+020

0+030

0+040

0+050

0+060

0+070

0+080

0+090

0+100

0+110

0+113.7

MACARA





MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO
SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 341

CAPITULO:

ALCANTARILLADO SANITARIO

SUBCAPITULO:

PROVISIÓN E INSTALACIÓN DE TUBERÍAS Y ACCESORIOS

AASS011 Cama de arena para tubería h=10cm

UNIDAD: M3

| ABSCISAS | | LONG. | VOLUMEN | OBSERVACIONES |
|---|----------|--------|---------|---|
| DESDE | HASTA | (m) | (M3) | |
| EXCAVACIÓN DE ZANJAS PARA COLOCACIÓN DE TUBERÍA | | | | |
| 0+000.60 | 0+095.23 | 93.43 | 6.54 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| 0+000.60 | 0+057.93 | 57.33 | 4.01 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren |
| 0+000.60 | 0+262.31 | 244.11 | 21.26 | Av. Emiliano Ortega entre Rocafuerte y Azuay |
| 0+001.10 | 0+120.76 | 117.46 | 14.10 | Calle Azuay entre Av. Emiliano Ortega y Macará |
| 0+000.60 | 0+029.15 | 28.55 | 2.00 | Calle Rocafuerte ente Av. Emiliano Ortega y Macará |
| 0+000.60 | 0+242.96 | 238.76 | 16.70 | Calle Macará entre Rocafuerte y Azuay |
| 0+000.60 | 0+027.86 | 26.06 | 1.82 | Av. Emiliano Ortega desde Rocafuerte a colector existente |
| 0+001.10 | 0+145.00 | 141.50 | 9.91 | Av. Emiliano Ortega desde Azuay a Estadio |
| | | | | |
| TOTAL = | | 76.34 | M3 | |

ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015

ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

AASS011 Cama de arena para tubería h=10cm

| ABSCISAS | | 0+000.60 - | 0+095.23 | Av. Emiliano Ortega entre 24 de Mayo y Colón | | |
|----------------|--------------|------------|------------|--|-------------------|---------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | pozo 637 |
| 0+044.73 | 44.13 | 0.70 | 0.10 | 3.09 | 3.09 | pozo 675 |
| 0+045.93 | | | | | | pozo 636 |
| 0+095.23 | 49.30 | 0.70 | 0.10 | 3.45 | 6.54 | |
| TOTAL : | 93.43 | | | 6.54 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+057.93 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren | | |
|----------------|--------------|------------|------------|---|-------------------|---------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | pozo 637 |
| 0+057.93 | 57.33 | 0.70 | 0.10 | 4.01 | 4.01 | pozo 570 |
| TOTAL : | 57.33 | | | 4.01 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+262.31 | Av. Emiliano Ortega entre Rocafuerte y Azuay | | |
|----------------|---------------|------------|------------|--|-------------------|----------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | pozo 644 - pozo 645 |
| 0+062.40 | 61.80 | 0.70 | 0.10 | 4.33 | 4.33 | |
| 0+063.60 | | | | | | pozo 645 - pozo 476' |
| 0+115.22 | 51.62 | 0.70 | 0.10 | 3.61 | 7.94 | |
| 0+129.42 | | | | | | pozo 476' - pozo 674 |
| 0+176.70 | 47.28 | 0.70 | 0.10 | 3.31 | 11.25 | |
| 0+178.90 | | | | | | pozo 674 - pozo 457 |
| 0+262.31 | 83.41 | 1.20 | 0.10 | 10.01 | 21.26 | |
| TOTAL : | 244.11 | | | 21.26 | m³. | |

| ABSCISAS | | 0+001.10 - | 0+120.76 | Calle Azuay entre Av. Emiliano Ortega y Macará | | |
|----------------|---------------|------------|------------|--|-------------------|---------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.10 | | | | | | pozo 457 - pozo 456 |
| 0+053.08 | 51.98 | 1.20 | 0.10 | 6.24 | 6.24 | |
| 0+055.28 | | | | | | pozo 456 - pozo 455 |
| 0+120.76 | 65.48 | 1.20 | 0.10 | 7.86 | 14.10 | |
| TOTAL : | 117.46 | | | 14.10 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+029.15 | Calle Rocafuerte ente Av. Emiliano Ortega y Macará | | |
|----------------|--------------|------------|------------|--|-------------------|---------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | pozo 644 - pozo 575 |
| 0+029.15 | 28.55 | 0.70 | 0.10 | 2.00 | 2.00 | |
| TOTAL : | 28.55 | | | 2.00 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+242.96 | Calle Macará entre Rocafuerte y Azuay | | |
|----------------|---------------|------------|------------|---------------------------------------|-------------------|---------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | pozo 575 - 574 |
| 0+061.05 | 60.45 | 0.70 | 0.10 | 4.23 | 4.23 | |
| 0+062.25 | | | | | | pozo 574 - pozo 475 |
| 0+119.59 | 57.34 | 0.70 | 0.10 | 4.01 | 8.24 | |
| 0+120.79 | | | | | | pozo 475 - pozo 468 |
| 0+187.85 | 67.06 | 0.70 | 0.10 | 4.69 | 12.93 | |
| 0+189.05 | | | | | | pozo 468 - pozo 455 |
| 0+242.96 | 53.91 | 0.70 | 0.10 | 3.77 | 16.70 | |
| TOTAL : | 238.76 | | | 16.70 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+027.86 | Av. Emiliano Ortega desde Rocafuerte a colector existente | | |
|----------------|-----------------|--------------|---------------|---|----------------------|---------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | pozo 644 - pozo 643 |
| 0+022.67 | 22.07 | 0.70 | 0.10 | 1.54 | 1.54 | |
| 0+023.87 | | | | | | pozo 643 - SW244 |
| 0+027.86 | 3.99 | 0.70 | 0.10 | 0.28 | 1.82 | |
| TOTAL : | 26.06 | | | 1.82 | m³. | |

| ABSCISAS | | 0+001.10 - | 0+145.00 | Av. Emiliano Ortega desde Azuay a Estadio | | |
|----------------|-----------------|--------------|---------------|---|----------------------|---------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.10 | | | | | | pozo 457 - pozo 462 |
| 0+063.19 | 62.09 | 0.70 | 0.10 | 4.35 | 4.35 | |
| 0+064.39 | | | | | | pozo 462 - pozo 461 |
| 0+127.00 | 62.61 | 0.70 | 0.10 | 4.38 | 8.73 | |
| 0+128.20 | | | | | | pozo 461 - pozo 460 |
| 0+145.00 | 16.80 | 0.70 | 0.10 | 1.18 | 9.91 | |
| TOTAL : | 141.50 | | | 9.91 | m³. | |




CAMA DE ARENA

637 24 DE MAYO 570

J.A. EGUIGUREN

675 AV. EMILIANO ORTEGA

636

0+095.23
0+095.53

0+090.00

0+080.00

0+070.00

0+060.00

0+050.00

0+040.00

0+044.73
0+045.33

0+046.30

0+030.00

0+020.00

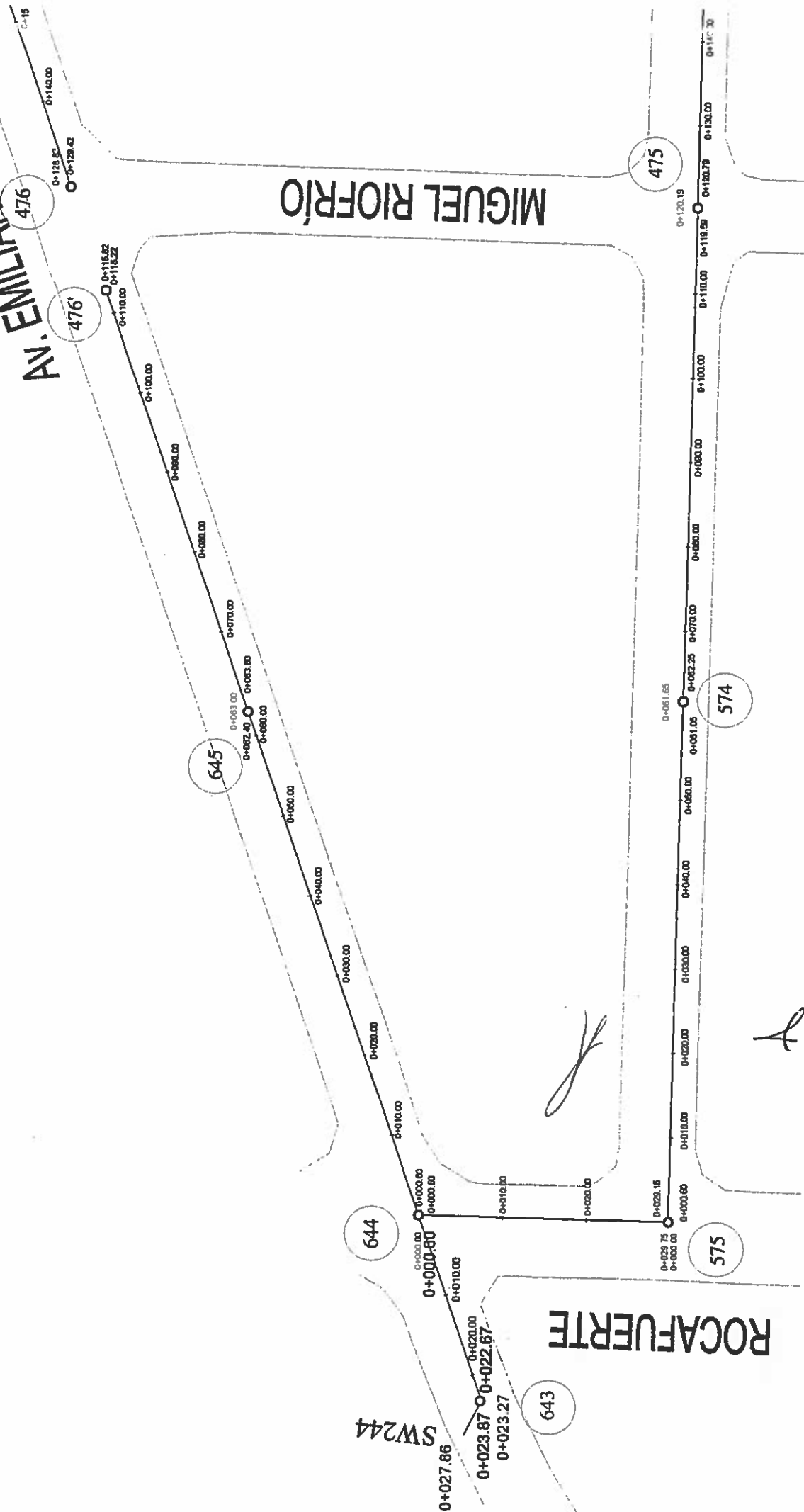
0+010.00

0+000.00

0+050.00
0+057.83
0+058.53

4

...NO ORTEGA



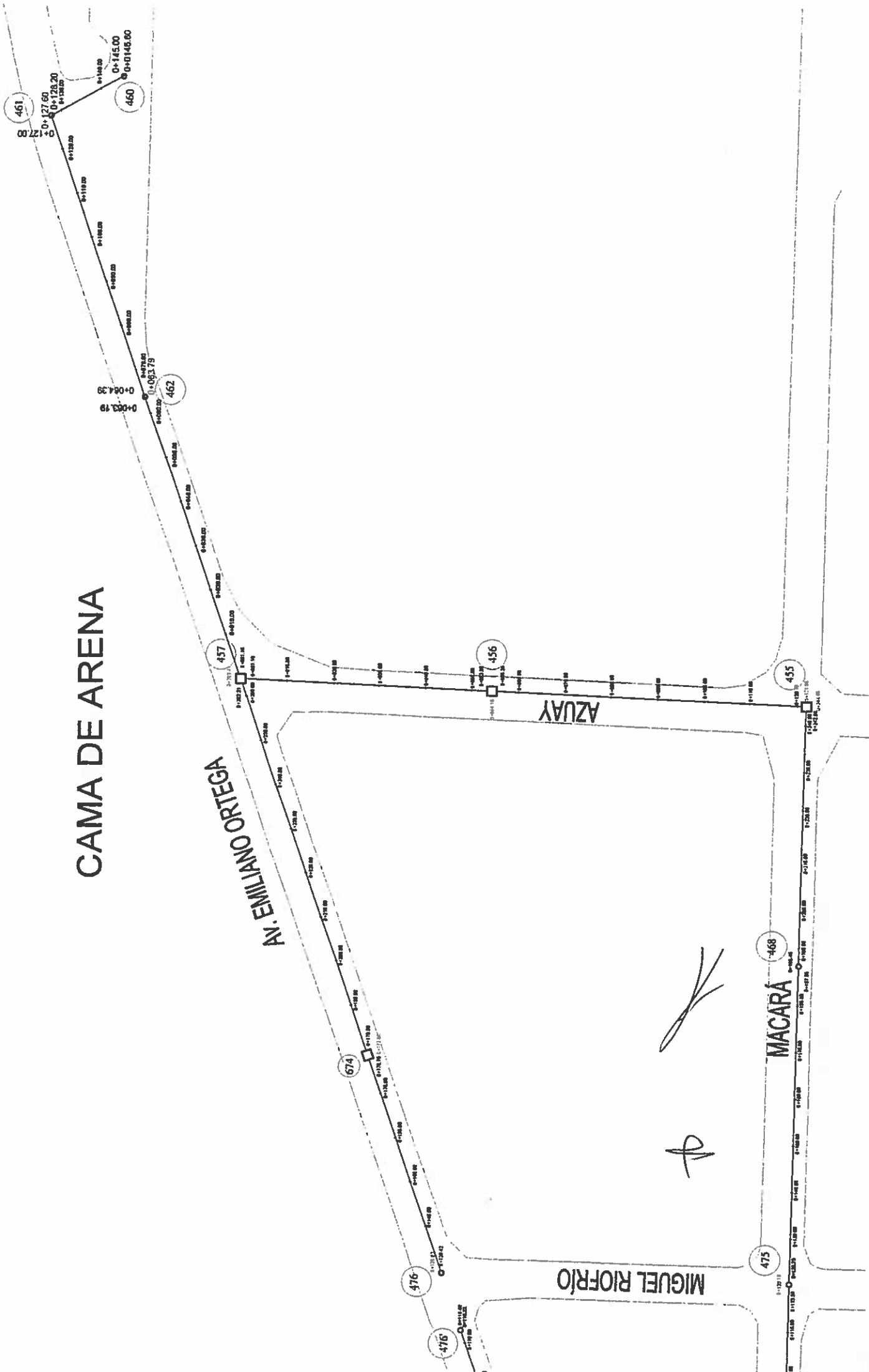
CAMA DE ARENA

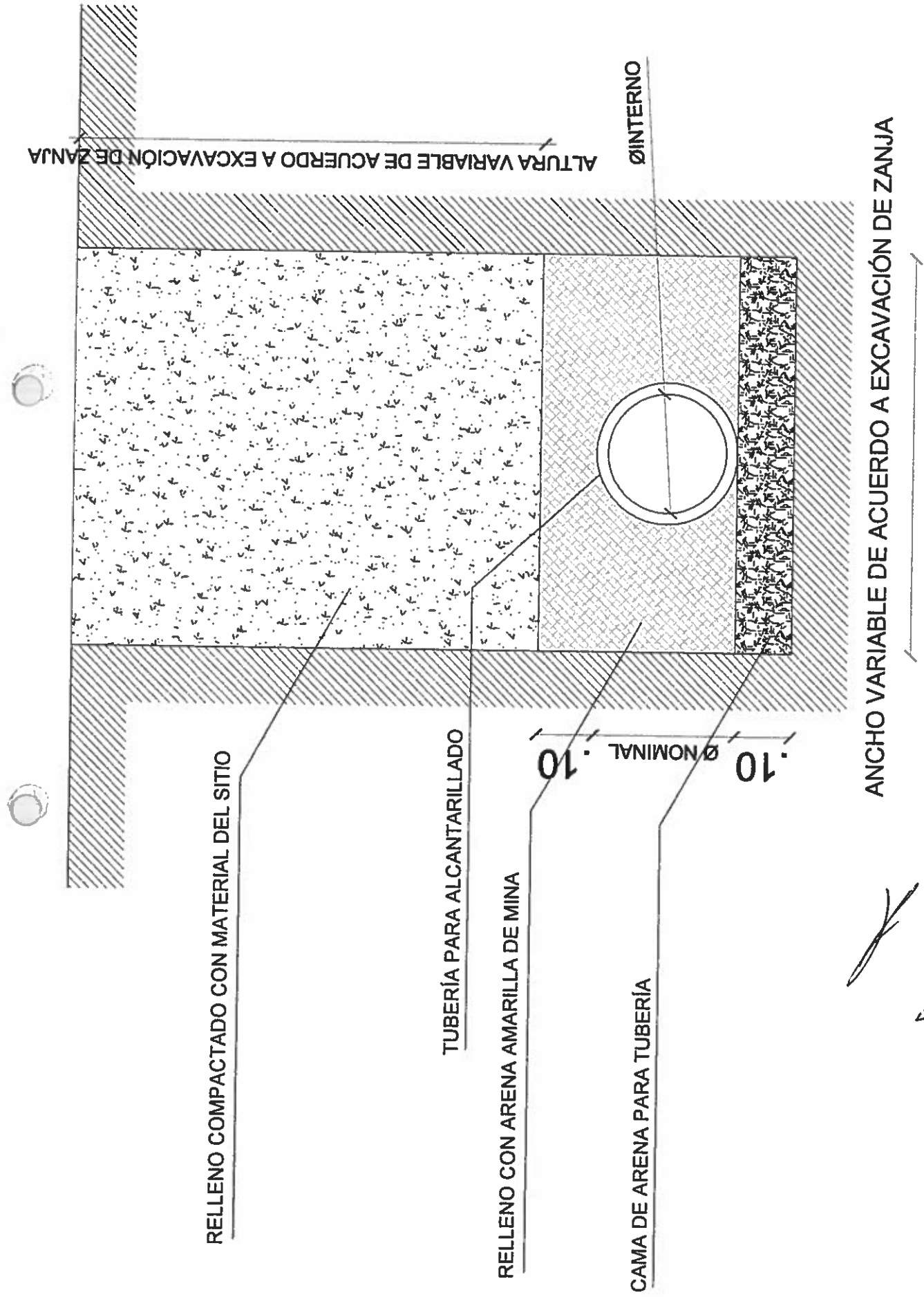
AV. EMILIANO ORTEGA

AZUAY

MIGUEL RÍOFRÍO

MACARÁ





CORTE TIPO DE ZANJA

4



MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.


PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 342

CAPITULO: ALCANTARILLADO SANITARIO
SUBCAPITULO: PROVISIÓN E INSTALACIÓN DE TUBERÍAS Y ACCESORIOS
AASS012 SUMINISTRO E INSTALACIÓN, TUBERÍA PERFILADA UNIDAD: ML
PVC PARA ALCANTARILLADO Di= 250mm

| Nro. POZO | | LONG. | OBSERVACIONES |
|-----------|-------|-------|--|
| DESDE | HASTA | (ML) | |
| 637 | 570 | 57.62 | Calle 24 de Mayo desde Av. Emiliano Ortega hasta J.A.Eguiguren |
| 644 | 643 | 22.37 | Av. Emiliano Ortega entre 10 de Agosto y Rocafuerte |
| 643 | SW244 | 4.13 | Av. Emiliano Ortega entre 10 de Agosto y Rocafuerte |
| 644 | 575 | 28.85 | Calle Rocafuerte entre Av. Emiliano Ortega y Macará |
| 644 | 645 | 62.10 | Av. Emiliano Ortega entre Rocafuerte y Miguel Riofrío |
| 645 | 476' | 51.92 | Av. Emiliano Ortega entre Rocafuerte y Miguel Riofrío |
| 476 | 674 | 47.68 | Av. Emiliano Ortega entre Miguel Riofrío y Azuay |
| 575 | 574 | 60.75 | Calle Macará entre Rocafuerte y Miguel Riofrío |
| 574 | 475 | 57.64 | Calle Macará entre Rocafuerte y Miguel Riofrío |
| 475 | 468 | 67.37 | Calle Macará entre Miguel Riofrío y Azuay |
| 468 | 455 | 54.26 | Calle Macará entre Miguel Riofrío y Azuay |
| 457 | 462 | 62.49 | Av. Emiliano Ortega entre Azuay y Estadio |
| 462 | 461 | 63.01 | Av. Emiliano Ortega entre Azuay y Estadio |
| 461 | 460 | 17.20 | Av. Emiliano Ortega entre Azuay y Estadio |

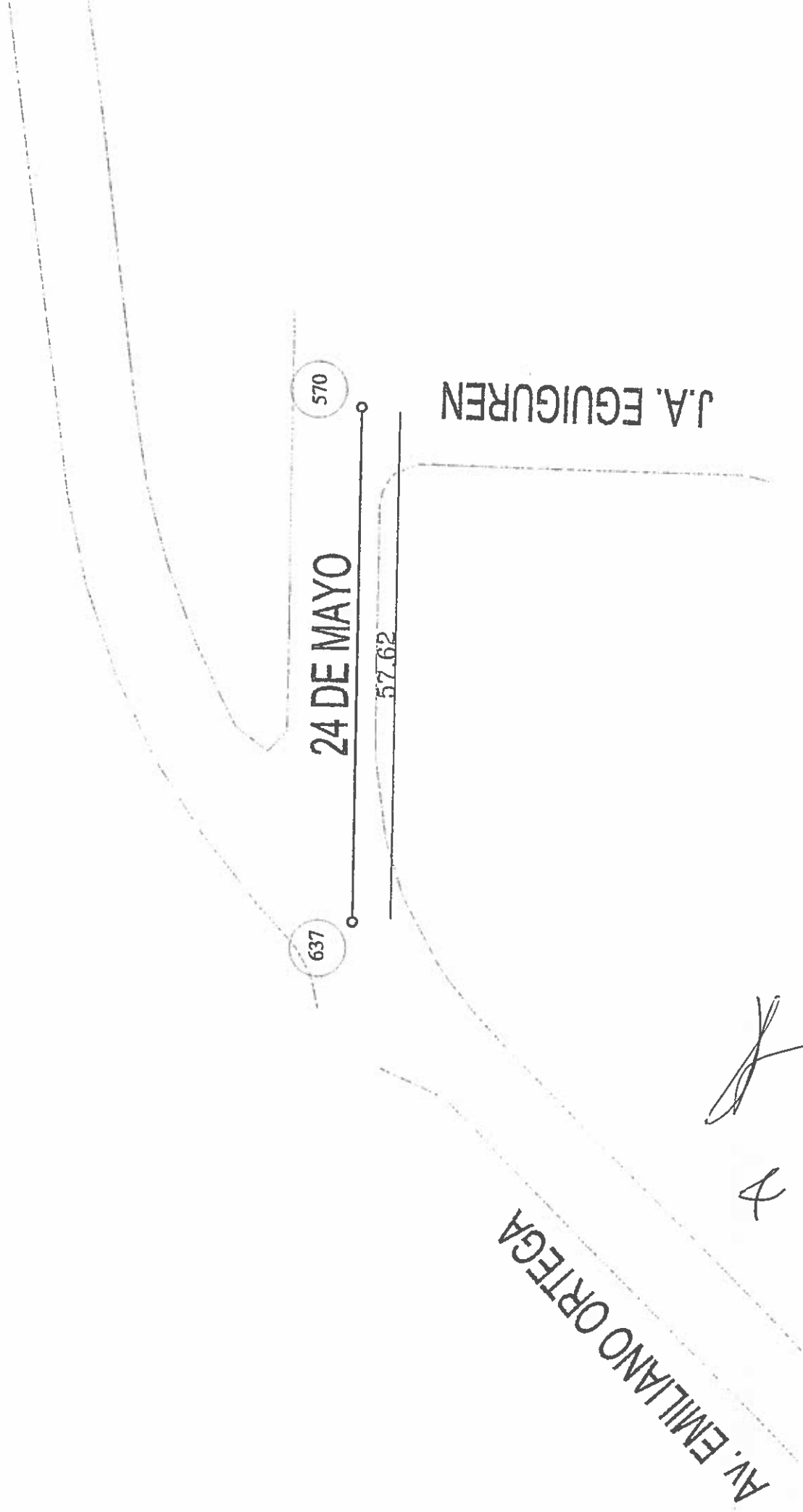
TOTAL = 657.39 MI

Nota: las longitudes de tuberías han sido consideradas desde las caras interiores de un pozo a otro

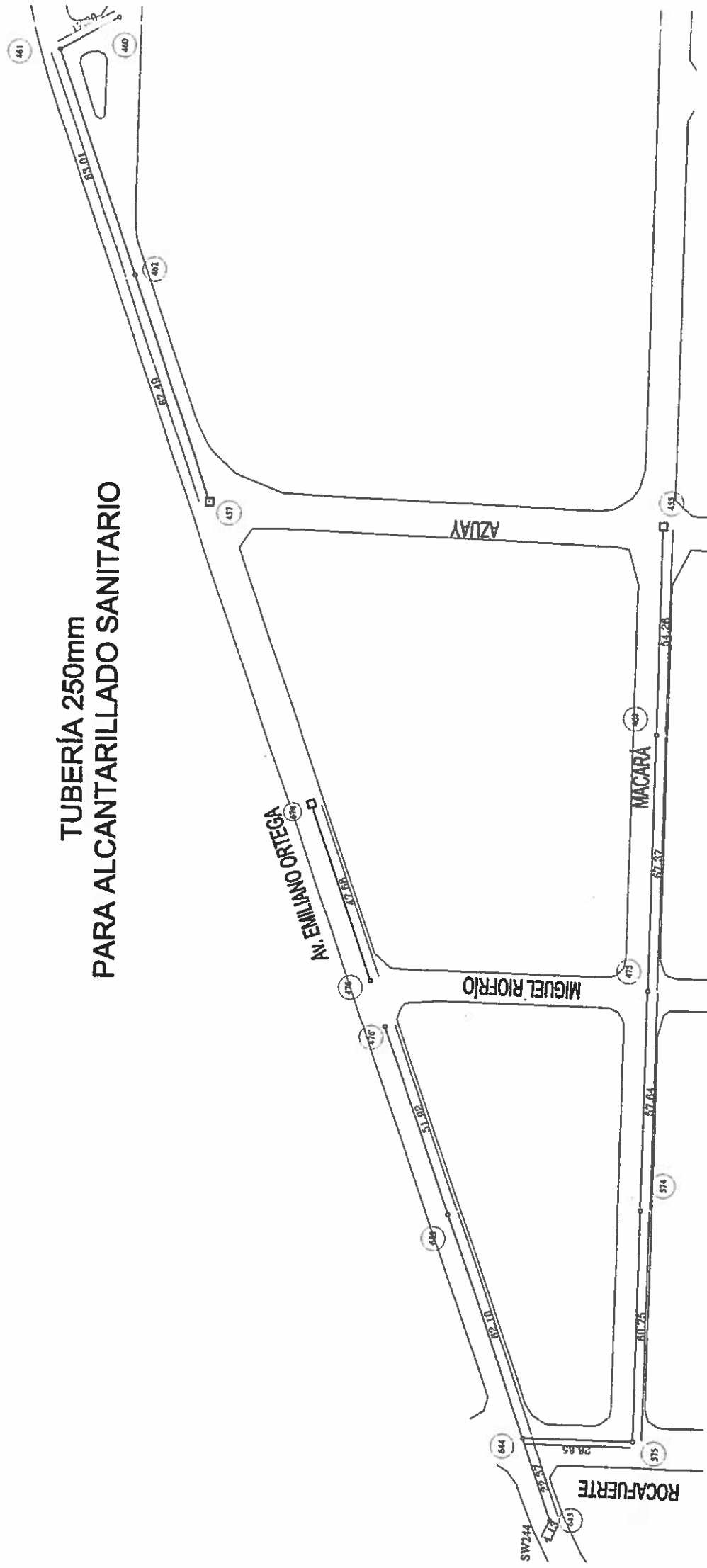

ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015


ING. JOSE ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

TUBERÍA 250mm PARA ALCANTARILLADO SANITARIO



TUBERÍA 250mm
PARA ALCANTARILLADO SANITARIO



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MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 353

CAPITULO:
SUBCAPITULO:

ALCANTARILLADO SANITARIO
POZOS DE REVISIÓN

AASS023 Replantillo de hormigon simple $f'c=180\text{kg/cm}^2$
 $e=6\text{cm}$, incluye piedra $e=15\text{cm}$, con hormigón premezclado

UNIDAD: M2

| DESCRIPCIÓN | | TIPO | AREA | OBSERVACIONES |
|-------------|-----|------|------|---|
| | | | (M2) | |
| | | | | |
| Pozo nro. | 636 | I | 2.25 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| Pozo nro. | 675 | I | 2.25 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| Pozo nro. | 637 | I | 2.25 | Av. Emiliano Ortega y 24 de Mayo |
| Pozo nro. | 644 | I | 2.25 | Av. Emiliano Ortega y Rocafuerte |
| Pozo nro. | 575 | I | 2.25 | Calle Rocafuerte y Macará |
| Pozo nro. | 645 | I | 2.25 | Av. Emiliano Ortega entre Rocafuerte y M. Riofrio |
| Pozo nro. | 574 | I | 2.25 | Macará entre Rocafuerte y Miguel Riofrio |
| Pozo nro. | 674 | IE | 6.25 | Av. Emiliano Ortega entre Azuay y M. Riofrio |
| Pozo nro. | 457 | IE | 6.25 | Av. Emiliano Ortega y Azuay |
| | | | | |

TOTAL = 28.25 M2

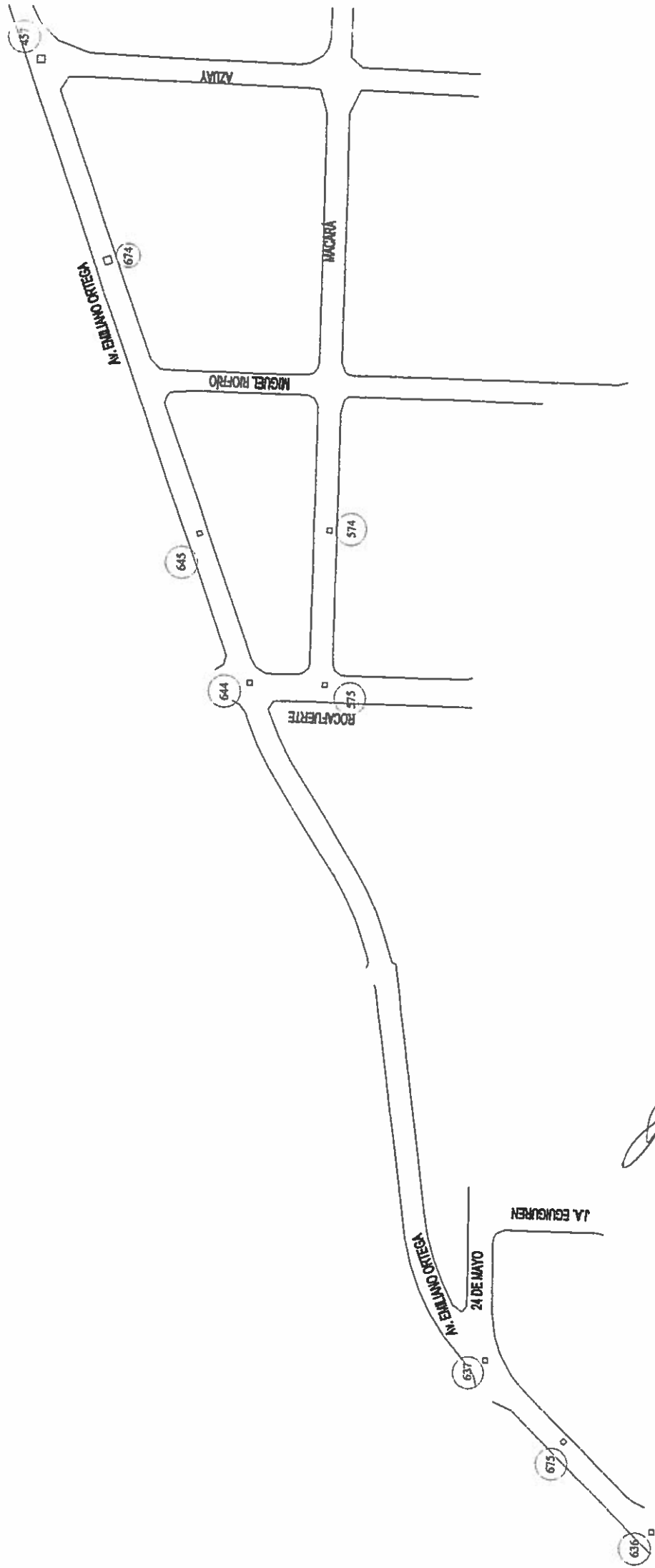
ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015

ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

3 Replanto de hormigon simple $f'c=180\text{kg/cm}^2$ $e=6\text{cm}$, incluye piedra $e=15\text{cm}$, con hormigon pre

| NRO. POZO | LONGITUD (m) | ANCHO (m) | AREA (m ²) | AREA ACUMULADA | OBSERVACIONES |
|-----------|-----------------|--------------|---------------------------|-------------------|---------------|
| 636 | 1.50 | 1.50 | 2.25 | 2.25 | Pozo tipo I |
| 675 | 1.50 | 1.50 | 2.25 | 4.50 | Pozo tipo I |
| 637 | 1.50 | 1.50 | 2.25 | 6.75 | Pozo tipo I |
| 644 | 1.50 | 1.50 | 2.25 | 9.00 | Pozo tipo I |
| 575 | 1.50 | 1.50 | 2.25 | 11.25 | Pozo tipo I |
| 645 | 1.50 | 1.50 | 2.25 | 13.50 | Pozo tipo I |
| 574 | 1.50 | 1.50 | 2.25 | 15.75 | Pozo tipo I |
| 674 | 2.50 | 2.50 | 6.25 | 22.00 | Pozo tipo IE |
| 457 | 2.50 | 2.50 | 6.25 | 28.25 | Pozo tipo IE |
| TOTAL : | | | 28.25 | m ² . | |

REPLANTILLO PARA POZOS DE REVISIÓN



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4



MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO
SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 356

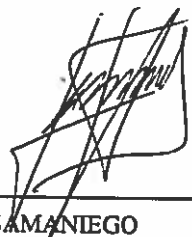
CAPITULO:
SUBCAPITULO:

ALCANTARILLADO SANITARIO
VARIOS

AASS026 Reparación de acometida domiciliaria de agua potable Ø=1/2", 3/4" y 1" UNIDAD: U

| UBICACIÓN | UNIDAD | OBSERVACIONES |
|-----------|--------|---------------|
| | (U) | |
| Varios | 13.00 | |
| | | |
| | | |

TOTAL = 13.00 U



ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015



ING. JOSE ANGEL BLANCO
FISCALIZACIÓN
INCA S.A.

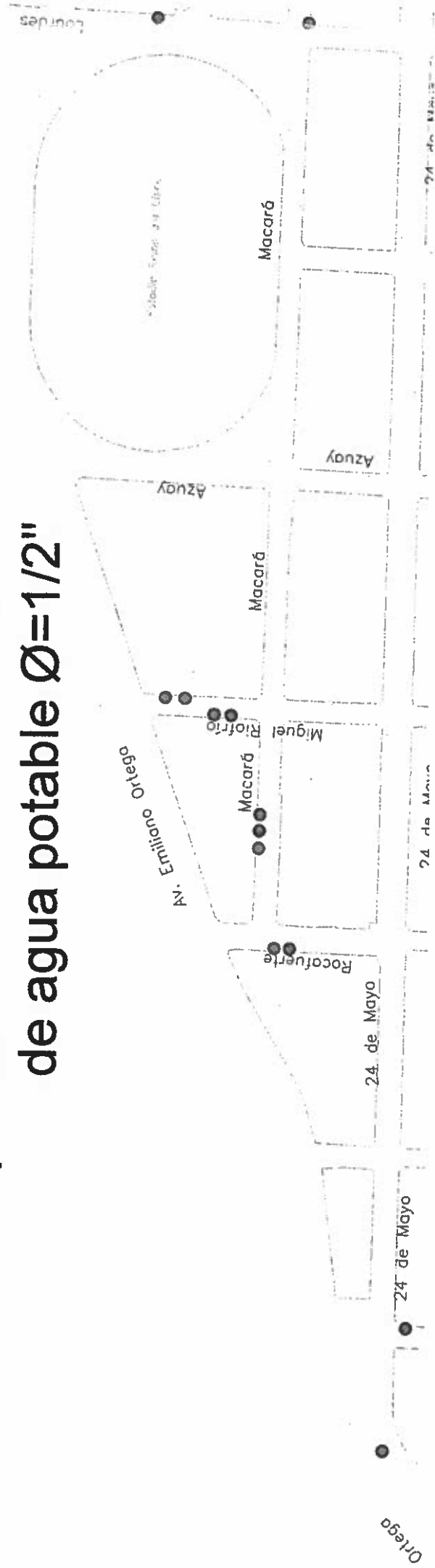
AASS026 Reparación de acometida domiciliaria de agua potable Ø=1/2", 3/4" y 1"

| DIAMETRO | CANTIDAD (U) | OBSERVACIONES |
|----------------|-----------------|--|
| 1/2" | 1.00 | Av. Emiliano Ortega y 24 de Mayo |
| 1/2" | 1.00 | Calle J. A. Eguiguren y 24 de Mayo |
| 1/2" | 2.00 | Calle Rocafuerte entre Av. Emiliano Ortega y 24 de Mayo |
| 1/2" | 3.00 | Calle Macará entre Rocafuerte y Miguel Riofrío |
| 1/2" | 4.00 | Calle Miguel Riofrío entre Av. Emiliano Ortega y Macará |
| 1/2" | 1.00 | Calle Lourdes y Macará |
| 1/2" | 1.00 | Calle Lourdes entre Sabiango y Matilde Hidalgo |
| TOTAL : | | 13.00 U |



4

Reparación de acometida domiciliaria de agua potable $\varnothing=1\frac{1}{2}$ "



4



MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 631 (1)

CAPITULO:
SUBCAPITULO:

ALCANTARILLADO SANITARIO
Varios

Relleno con arena amarilla de mina

UNIDAD: M3

| ABSCISAS | | LONG. | VOLUMEN | OBSERVACIONES |
|---|----------|--------|---------|---|
| DESDE | HASTA | (m) | (M3) | |
| EXCAVACIÓN DE ZANJAS PARA COLOCACIÓN DE TUBERÍA | | | | |
| 0+000.60 | 0+095.23 | 93.43 | 20.23 | Av. Emiliano Ortega entre 24 de Mayo y Colón |
| 0+000.60 | 0+057.93 | 57.33 | 11.70 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren |
| 0+000.60 | 0+262.31 | 244.16 | 86.75 | Av. Emiliano Ortega entre Rocafuerte y Azuay |
| 0+001.10 | 0+120.76 | 117.46 | 63.32 | Calle Azuay entre Av. Emiliano Ortega y Macará |
| 0+000.60 | 0+029.15 | 28.55 | 11.25 | Calle Rocafuerte ente Av. Emiliano Ortega y Macará |
| 0+000.60 | 0+242.96 | 238.76 | 48.70 | Calle Macará entre Rocafuerte y Azuay |
| 0+000.60 | 0+027.86 | 25.45 | 5.19 | Av. Emiliano Ortega desde Rocafuerte a colector existente |
| 0+001.10 | 0+145.00 | 141.50 | 28.87 | Av. Emiliano Ortega desde Azuay a Estadio |
| | | | | |

TOTAL = 276.01 M3

Nota: este rubro corresponde al capítulo de alcantarillado sanitario, pero por no encontrarse este rubro dentro de ese capítulo, en la presente planilla se ha añadido dicho rubro bajo consentimiento de la administración del proyecto para su cobro.


ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015


ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

Relleno con arena amarilla de mina

| ABSCISAS | | 0+000.60 - | 0+095.23 | Av. Emiliano Ortega entre 24 de Mayo y Colón | | |
|----------------|--------------|------------|------------|--|-------------------|---------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | Pozo 637 - pozo 675 |
| 0+044.73 | 44.13 | 0.70 | 0.435 | 13.44 | 13.44 | tubería Ø300mm (Ønominal=335mm) |
| | -44.13 | Area tub.= | 0.088 | -3.88 | 9.56 | - volumen de tubería |
| 0+045.93 | | | | | | Pozo 675 - 636 |
| 0+095.23 | 49.30 | 0.70 | 0.435 | 15.01 | 24.57 | tubería Ø300mm (Ønominal=335mm) |
| | -49.30 | Area tub.= | 0.088 | -4.34 | 20.23 | - volumen de tubería |
| TOTAL : | 93.43 | | | 20.23 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+057.93 | Calle 24 de Mayo entre Av. Emiliano Ortega y J.A. Eguiguren | | |
|----------------|--------------|------------|------------|---|-------------------|---------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | Pozo 637 - 570 |
| 0+057.93 | 57.33 | 0.70 | 0.380 | 15.25 | 15.25 | tubería Ø250mm (Ønominal=280mm) |
| | -57.33 | Area tub.= | 0.062 | -3.55 | 11.70 | - volumen de tubería |
| TOTAL : | 57.33 | | | 11.70 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+262.31 | Av. Emiliano Ortega entre Rocafuerte y Azuay | | |
|----------------|---------------|------------|------------|--|-------------------|---------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | Pozo 644 - pozo 645 |
| 0+062.40 | 61.80 | 0.70 | 0.380 | 16.44 | 16.44 | tubería Ø250mm (Ønominal=280mm) |
| | -61.80 | Area tub.= | 0.062 | -3.83 | 12.61 | - volumen de tubería |
| 0+063.60 | | | | | | Pozo 645 - pozo 476' |
| 0+115.22 | 51.62 | 0.70 | 0.380 | 13.73 | 26.34 | tubería Ø250mm (Ønominal=280mm) |
| | -51.62 | Area tub.= | 0.062 | -3.20 | 23.14 | - volumen de tubería |
| 0+129.42 | | | | | | Pozo 476 - pozo 674 |
| 0+176.75 | 47.33 | 1.20 | 0.380 | 21.58 | 44.72 | tubería Ø250mm (Ønominal=280mm) |
| | -47.33 | Area tub.= | 0.062 | -2.93 | 41.79 | - volumen de tubería |
| 0+178.90 | | | | | | Pozo 674 - pozo 457 |
| 0+262.31 | 83.41 | 1.20 | 0.640 | 64.06 | 105.85 | tubería Ø500mm (Ønominal=540mm) |
| | -83.41 | Area tub.= | 0.229 | -19.10 | 86.75 | - volumen de tubería |
| TOTAL : | 244.16 | | | 86.75 | m³. | |

| ABSCISAS | | 0+001.10 - | 0+120.76 | Calle Azuay entre Av. Emiliano Ortega y Macará | | |
|----------------|---------------|------------|------------|--|-------------------|---------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.10 | | | | | | Pozo 457 - pozo 456 |
| 0+053.08 | 51.98 | 1.20 | 0.640 | 39.92 | 39.92 | tubería Ø500mm (Ønominal=540mm) |
| | -51.98 | Area tub.= | 0.229 | -11.90 | 28.02 | - volumen de tubería |
| 0+055.28 | | | | | | Pozo 456 - 455 |
| 0+120.76 | 65.48 | 1.20 | 0.640 | 50.29 | 78.31 | tubería Ø250mm (Ønominal=280mm) |
| | -65.48 | Area tub.= | 0.229 | -14.99 | 63.32 | - volumen de tubería |
| TOTAL : | 117.46 | | | 63.32 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+029.15 | Calle Rocafuerte ente Av. Emiliano Ortega y Macará | | |
|----------------|--------------|------------|------------|--|-------------------|---------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | Pozo 644 - pozo 575 |
| 0+029.15 | 28.55 | 1.20 | 0.380 | 13.02 | 13.02 | tubería Ø250mm (Ønominal=280mm) |
| | -28.55 | Area tub.= | 0.062 | -1.77 | 11.25 | - volumen de tubería |
| TOTAL : | 28.55 | | | 11.25 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+242.96 | Calle Macará entre Rocafuerte y Azuay | | |
|----------------|---------------|------------|------------|---------------------------------------|-------------------|---------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | Pozo 575 - pozo 574 |
| 0+061.05 | 60.45 | 0.70 | 0.380 | 16.08 | 16.08 | tubería Ø250mm (Ønominal=280mm) |
| | -60.45 | Area tub.= | 0.062 | -3.75 | 12.33 | - volumen de tubería |
| 0+062.25 | | | | | | Pozo 574 - pozo 475 |
| 0+119.59 | 57.34 | 0.70 | 0.380 | 15.25 | 27.58 | tubería Ø250mm (Ønominal=280mm) |
| | -57.34 | Area tub.= | 0.062 | -3.56 | 24.02 | - volumen de tubería |
| 0+120.79 | | | | | | Pozo 475 - pozo 468 |
| 0+187.85 | 67.06 | 0.70 | 0.380 | 17.84 | 41.86 | tubería Ø250mm (Ønominal=280mm) |
| | -67.06 | Area tub.= | 0.062 | -4.16 | 37.70 | - volumen de tubería |
| 0+189.05 | | | | | | Pozo 468 - pozo 455 |
| 0+242.96 | 53.91 | 0.70 | 0.380 | 14.34 | 52.04 | tubería Ø250mm (Ønominal=280mm) |
| | -53.91 | Area tub.= | 0.062 | -3.34 | 48.70 | - volumen de tubería |
| TOTAL : | 238.76 | | | 48.70 | m³. | |

| ABSCISAS | | 0+000.60 - | 0+027.86 | Av. Emiliano Ortega desde Rocafuerte a colector existente | | |
|----------------|--------------|------------|------------|---|-------------------|---------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+000.60 | | | | | | Pozo 644 - pozo 643 |
| 0+022.07 | 21.47 | 0.70 | 0.380 | 5.71 | 5.71 | tubería Ø250mm (Ønominal=280mm) |
| | -21.47 | Area tub.= | 0.062 | -1.33 | 4.38 | - volumen de tubería |
| 0+023.88 | | | | | | Pozo 643 - pozo colector SW244 |
| 0+027.86 | 3.98 | 0.70 | 0.380 | 1.06 | 5.44 | tubería Ø250mm (Ønominal=280mm) |
| | -3.98 | Area tub.= | 0.062 | -0.25 | 5.19 | - volumen de tubería |
| TOTAL : | 25.45 | | | 5.19 | m³. | |

| ABSCISAS | | 0+001.10 - | 0+145.00 | Av. Emiliano Ortega desde Azuay a Estadio | | |
|----------------|---------------|------------|------------|---|-------------------|---------------------------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ALTURA (m) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+001.10 | | | | | | Pozo 457 - pozo 462 |
| 0+063.19 | 62.09 | 0.70 | 0.380 | 16.52 | 16.52 | tubería Ø250mm (Ønominal=280mm) |
| | -62.09 | Area tub.= | 0.062 | -3.85 | 12.67 | - volumen de tubería |
| 0+064.39 | | | | | | Pozo 462 - pozo 461 |
| 0+127.00 | 62.61 | 0.70 | 0.380 | 16.65 | 29.32 | tubería Ø250mm (Ønominal=280mm) |
| | -62.61 | Area tub.= | 0.062 | -3.88 | 25.44 | - volumen de tubería |
| 0+128.20 | | | | | | Pozo 461 - 460 |
| 0+145.00 | 16.80 | 0.70 | 0.380 | 4.47 | 29.91 | tubería Ø250mm (Ønominal=280mm) |
| | -16.80 | Area tub.= | 0.062 | -1.04 | 28.87 | - volumen de tubería |
| TOTAL : | 141.50 | | | 28.87 | m³. | |

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4

RELLENO CON ARENA AMARILLA DE MINA



RELLENO CON ARENA AMARILLA DE MINA

AV. EMILIANO ORTEGA

MIGUEL RIOFRÍO

ROCAFUERTE

SW244

476

476'

475

574

575

643

644

645

0+129.42

0+128.82

0+115.82

0+115.22

0+063.00

0+062.40
0+063.60

0+000.00

0+061.65

0+061.05
0+062.25

0+119.59
0+120.79

0+120.19

0+000.00

0+000.60

0+029.75
0+028.15

0+000.00
0+000.60

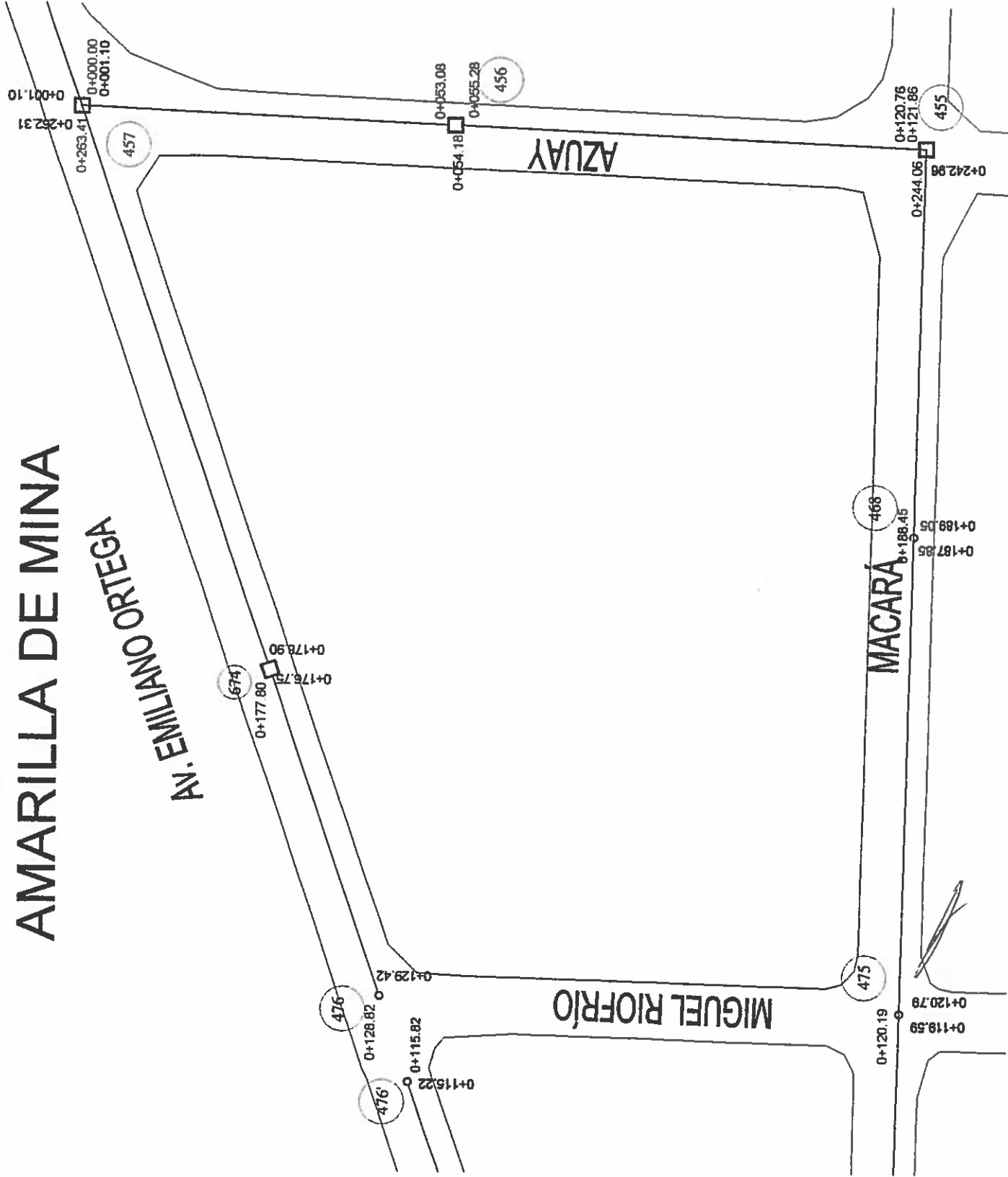
0+027.86

0+023.88
0+023.27
0+022.07

4

RELLENO CON ARENA AMARILLA DE MINA

AV. EMILIANO ORTEGA



RELLENO CON ARENA AMARILLA DE MINA

AV. EMILIANO ORTEGA

461

0+127.00

0+127.60

0+128.20

0+145.00

0+0145.60

460

0+063.19

0+064.39

0+063.79

462

0+262.31

0+263.41

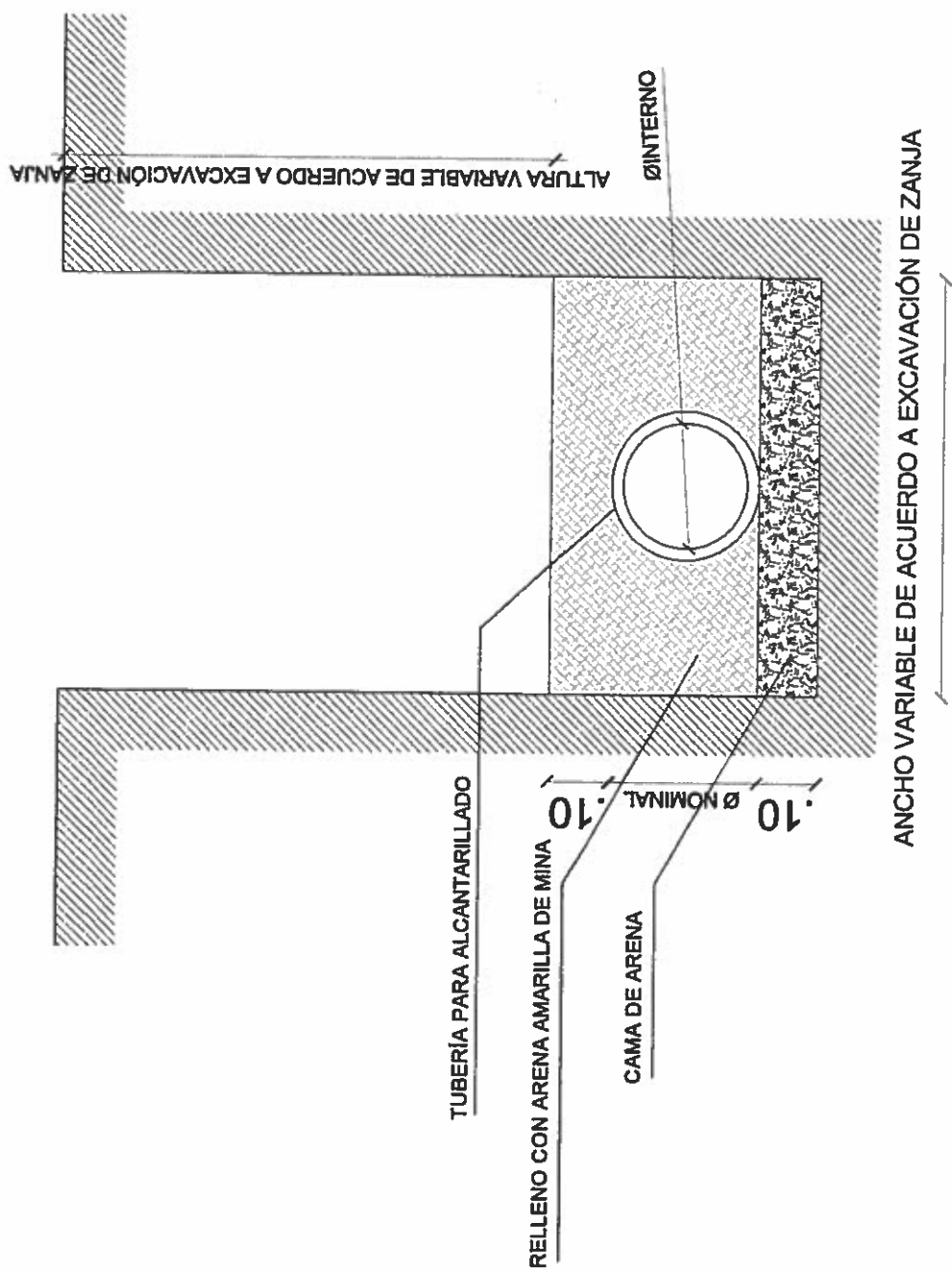
0+000.00

0+001.10

457

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4



CORTE TIPO DE ZANJA

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PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 400

RU002 Recuperación de hormigón asfáltico con fresadora

UNIDAD: m³

[illegible]

TOTAL = 1,410.28 M3

ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015

ING. JOSE ANGEL BLANCO
FISCALIZACION
INCA S.A.

RU002 Recuperación de hormigón asfáltico con fresadora

**AV. EMILIANO ORTEGA DESDE M. HIDALGO HASTA
ROCAFUERTE**

| ABSCISAS | 0+110.00 - | 0+860.00 | | | | | |
|----------|-----------------|--------------|----------------|--------------|-----------------|----------------------|---------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+110.00 | | 13.73 | 0.090 | 1.24 | | | |
| 0+120.00 | 10.00 | 13.06 | 0.090 | 1.18 | 12.06 | 12.06 | |
| 0+130.00 | 10.00 | 11.94 | 0.090 | 1.07 | 11.25 | 23.31 | |
| 0+140.00 | 10.00 | 11.38 | 0.090 | 1.02 | 10.49 | 33.80 | |
| 0+150.00 | 10.00 | 10.96 | 0.090 | 0.99 | 10.05 | 43.85 | |
| 0+160.00 | 10.00 | 9.78 | 0.090 | 0.88 | 9.33 | 53.18 | |
| 0+170.00 | 10.00 | 9.68 | 0.090 | 0.87 | 8.76 | 61.94 | |
| 0+180.00 | 10.00 | 9.11 | 0.090 | 0.82 | 8.46 | 70.40 | |
| 0+190.00 | 10.00 | 9.06 | 0.090 | 0.82 | 8.18 | 78.58 | |
| 0+200.00 | 10.00 | 9.04 | 0.090 | 0.81 | 8.15 | 86.73 | |
| 0+210.00 | 10.00 | 8.97 | 0.090 | 0.81 | 8.10 | 94.83 | |
| 0+220.00 | 10.00 | 8.96 | 0.090 | 0.81 | 8.07 | 102.90 | |
| 0+230.00 | 10.00 | 9.16 | 0.090 | 0.82 | 8.15 | 111.05 | |
| 0+240.00 | 10.00 | 8.99 | 0.090 | 0.81 | 8.17 | 119.22 | |
| 0+250.00 | 10.00 | 9.00 | 0.090 | 0.81 | 8.10 | 127.32 | |
| 0+260.00 | 10.00 | 9.00 | 0.090 | 0.81 | 8.10 | 135.42 | |
| 0+270.00 | 10.00 | 8.98 | 0.090 | 0.81 | 8.09 | 143.51 | |
| 0+280.00 | 10.00 | 8.93 | 0.090 | 0.80 | 8.06 | 151.57 | |
| 0+290.00 | 10.00 | 10.30 | 0.090 | 0.93 | 8.65 | 160.22 | |
| 0+300.00 | 10.00 | 9.00 | 0.090 | 0.81 | 8.69 | 168.91 | |
| 0+310.00 | 10.00 | 9.28 | 0.090 | 0.84 | 8.23 | 177.14 | |
| 0+320.00 | 10.00 | 9.13 | 0.090 | 0.82 | 8.28 | 185.42 | |
| 0+330.00 | 10.00 | 10.46 | 0.090 | 0.94 | 8.82 | 194.24 | |
| 0+345.95 | 15.95 | 13.49 | 0.090 | 1.21 | 17.19 | 211.43 | |
| 0+350.00 | 4.05 | 8.98 | 0.090 | 0.81 | 4.10 | 215.53 | |
| 0+360.00 | 10.00 | 13.93 | 0.090 | 1.25 | 10.31 | 225.84 | |
| 0+365.00 | 5.00 | 13.27 | 0.090 | 1.19 | 6.12 | 231.96 | |
| 0+370.00 | 5.00 | 13.87 | 0.090 | 1.25 | 6.11 | 238.07 | |
| 0+380.00 | 10.00 | 13.76 | 0.090 | 1.24 | 12.43 | 250.50 | |
| 0+390.00 | 10.00 | 13.68 | 0.090 | 1.23 | 12.35 | 262.85 | |
| 0+400.00 | 10.00 | 13.48 | 0.090 | 1.21 | 12.22 | 275.07 | |
| 0+402.50 | 2.50 | 13.48 | 0.090 | 1.21 | 3.03 | 278.10 | |
| 0+405.00 | 2.50 | 9.06 | 0.090 | 0.82 | 2.54 | 280.64 | |
| 0+410.00 | 5.00 | 9.06 | 0.090 | 0.82 | 4.08 | 284.72 | |
| 0+420.00 | 10.00 | 9.06 | 0.090 | 0.82 | 8.15 | 292.87 | |
| 0+430.00 | 10.00 | 9.09 | 0.090 | 0.82 | 8.17 | 301.04 | |
| 0+440.00 | 10.00 | 8.90 | 0.090 | 0.80 | 8.10 | 309.14 | |
| 0+450.00 | 10.00 | 9.03 | 0.090 | 0.81 | 8.07 | 317.21 | |
| 0+460.00 | 10.00 | 9.07 | 0.090 | 0.82 | 8.15 | 325.36 | |
| 0+470.00 | 10.00 | 8.97 | 0.090 | 0.81 | 8.12 | 333.48 | |
| 0+480.00 | 10.00 | 9.21 | 0.090 | 0.83 | 8.18 | 341.66 | |
| 0+490.00 | 10.00 | 9.16 | 0.090 | 0.82 | 8.27 | 349.93 | |
| 0+500.00 | 10.00 | 9.21 | 0.090 | 0.83 | 8.27 | 358.20 | |
| 0+510.00 | 10.00 | 9.10 | 0.090 | 0.82 | 8.24 | 366.44 | |
| 0+520.00 | 10.00 | 9.08 | 0.090 | 0.82 | 8.18 | 374.62 | |
| 0+530.00 | 10.00 | 9.08 | 0.090 | 0.82 | 8.17 | 382.79 | |
| 0+540.00 | 10.00 | 9.00 | 0.090 | 0.81 | 8.14 | 390.93 | |
| 0+550.00 | 10.00 | 8.97 | 0.090 | 0.81 | 8.09 | 399.02 | |
| 0+560.00 | 10.00 | 10.86 | 0.090 | 0.98 | 8.92 | 407.94 | |
| 0+570.00 | 10.00 | 14.42 | 0.090 | 1.30 | 11.38 | 419.32 | |
| 0+580.00 | 10.00 | 14.11 | 0.090 | 1.27 | 12.84 | 432.16 | |
| 0+590.00 | 10.00 | 9.07 | 0.090 | 0.82 | 10.43 | 442.59 | |
| 0+600.00 | 10.00 | 9.09 | 0.090 | 0.82 | 8.17 | 450.76 | |
| 0+610.00 | 10.00 | 9.10 | 0.090 | 0.82 | 8.19 | 458.95 | |
| 0+620.00 | 10.00 | 9.15 | 0.090 | 0.82 | 8.21 | 467.16 | |
| 0+630.00 | 10.00 | 9.14 | 0.090 | 0.82 | 8.23 | 475.39 | |
| 0+640.00 | 10.00 | 9.03 | 0.090 | 0.81 | 8.18 | 483.57 | |
| 0+650.00 | 10.00 | 9.05 | 0.090 | 0.81 | 8.14 | 491.71 | |
| 0+660.00 | 10.00 | 9.03 | 0.090 | 0.81 | 8.14 | 499.85 | |
| 0+670.00 | 10.00 | 9.00 | 0.090 | 0.81 | 8.11 | 507.96 | |

| | | | | | | | |
|----------|-------|-------|-------|------|------------|--------|--|
| 0+680.00 | 10.00 | 9.07 | 0.090 | 0.82 | 8.13 | 516.09 | |
| 0+690.00 | 10.00 | 9.10 | 0.090 | 0.82 | 8.18 | 524.27 | |
| 0+700.00 | 10.00 | 9.16 | 0.090 | 0.82 | 8.22 | 532.49 | |
| 0+710.00 | 10.00 | 13.51 | 0.090 | 1.22 | 10.20 | 542.69 | |
| 0+720.00 | 10.00 | 9.05 | 0.090 | 0.81 | 10.15 | 552.84 | |
| 0+730.00 | 10.00 | 9.01 | 0.090 | 0.81 | 8.13 | 560.97 | |
| 0+740.00 | 10.00 | 9.05 | 0.090 | 0.81 | 8.13 | 569.10 | |
| 0+750.00 | 10.00 | 9.00 | 0.090 | 0.81 | 8.12 | 577.22 | |
| 0+760.00 | 10.00 | 9.03 | 0.090 | 0.81 | 8.11 | 585.33 | |
| 0+770.00 | 10.00 | 8.97 | 0.090 | 0.81 | 8.10 | 593.43 | |
| 0+780.00 | 10.00 | 9.01 | 0.090 | 0.81 | 8.09 | 601.52 | |
| 0+790.00 | 10.00 | 8.99 | 0.090 | 0.81 | 8.10 | 609.62 | |
| 0+800.00 | 10.00 | 8.99 | 0.090 | 0.81 | 8.09 | 617.71 | |
| 0+810.00 | 10.00 | 9.01 | 0.090 | 0.81 | 8.10 | 625.81 | |
| 0+820.00 | 10.00 | 9.06 | 0.090 | 0.82 | 8.13 | 633.94 | |
| 0+830.00 | 10.00 | 12.42 | 0.090 | 1.12 | 9.67 | 643.61 | |
| 0+840.00 | 10.00 | 15.84 | 0.090 | 1.43 | 12.72 | 656.33 | |
| 0+850.00 | 10.00 | 9.04 | 0.090 | 0.81 | 11.20 | 667.53 | |
| 0+860.00 | 10.00 | 9.04 | 0.090 | 0.81 | 8.14 | 675.67 | |
| TOTAL: | | | | | 675.67 m². | | |

AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON

ABSCISAS 1+107.00 - 1+230.00

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|--------------|-----------|-------------|-----------|--------------|-------------------|---------------|
| 1+107.00 | | 11.42 | 0.090 | 1.03 | | | |
| 1+114.70 | 7.70 | 21.48 | 0.070 | 1.50 | 9.75 | 9.75 | |
| 1+120.00 | 5.30 | 17.26 | 0.050 | 0.86 | 6.27 | 16.02 | |
| 1+130.00 | 10.00 | 13.18 | 0.050 | 0.66 | 7.61 | 23.63 | |
| 1+132.40 | 2.40 | 15.00 | 0.050 | 0.75 | 1.69 | 25.32 | |
| 1+140.00 | 7.60 | 12.78 | 0.050 | 0.64 | 5.28 | 30.60 | |
| 1+150.00 | 10.00 | 9.09 | 0.050 | 0.45 | 5.47 | 36.07 | |
| 1+160.00 | 10.00 | 9.09 | 0.050 | 0.45 | 4.55 | 40.62 | |
| 1+170.00 | 10.00 | 9.11 | 0.050 | 0.46 | 4.55 | 45.17 | |
| 1+180.00 | 10.00 | 9.10 | 0.050 | 0.46 | 4.55 | 49.72 | |
| 1+190.00 | 10.00 | 9.16 | 0.050 | 0.46 | 4.57 | 54.29 | |
| 1+200.00 | 10.00 | 9.05 | 0.050 | 0.45 | 4.55 | 58.84 | |
| 1+210.00 | 10.00 | 9.44 | 0.050 | 0.47 | 4.62 | 63.46 | |
| 1+220.00 | 10.00 | 11.03 | 0.050 | 0.55 | 5.12 | 68.58 | |
| 1+230.00 | 10.00 | 9.07 | 0.050 | 0.45 | 5.03 | 73.61 | |
| TOTAL: | | | | | 73.61 m³. | | |

C/ SIN NOMBRE DESDE LOURDES HASTA AV. EMILIANO ORTEGA

ABSCISAS 0+010.00 - 0+046.67

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|--------------|-----------|-------------|-----------|--------------|-------------------|---------------|
| 0+010.00 | | 4.14 | 0.100 | 0.41 | | | |
| 0+020.00 | 10.00 | 8.02 | 0.090 | 0.72 | 5.68 | 5.68 | |
| 0+030.00 | 10.00 | 9.07 | 0.090 | 0.82 | 7.69 | 13.37 | |
| 0+040.00 | 10.00 | 9.00 | 0.100 | 0.90 | 8.58 | 21.95 | |
| 0+046.67 | 6.67 | 12.72 | 0.090 | 1.14 | 6.82 | 28.77 | |
| TOTAL: | | | | | 28.77 m³. | | |

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**C/ MACARA DESDE ROCAFUERTE HASTA MIGUEL
RIOFRIO**

ABSCISAS 0+005.50 - 0+116.26

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|-----------------|--------------|----------------|--------------|------------------|----------------------|---------------|
| 0+005.50 | | 16.56 | 0.090 | 1.49 | | | |
| 0+007.27 | 1.77 | 10.81 | 0.090 | 0.97 | 2.18 | 2.18 | |
| 0+010.00 | 2.73 | 9.01 | 0.090 | 0.81 | 2.43 | 4.61 | |
| 0+020.00 | 10.00 | 8.99 | 0.090 | 0.81 | 8.10 | 12.71 | |
| 0+030.00 | 10.00 | 8.92 | 0.090 | 0.80 | 8.06 | 20.77 | |
| 0+040.00 | 10.00 | 8.93 | 0.090 | 0.80 | 8.03 | 28.80 | |
| 0+050.00 | 10.00 | 8.90 | 0.090 | 0.80 | 8.02 | 36.82 | |
| 0+060.00 | 10.00 | 8.97 | 0.090 | 0.81 | 8.04 | 44.86 | |
| 0+070.00 | 10.00 | 8.95 | 0.090 | 0.81 | 8.06 | 52.92 | |
| 0+080.00 | 10.00 | 8.99 | 0.090 | 0.81 | 8.07 | 60.99 | |
| 0+090.00 | 10.00 | 9.01 | 0.090 | 0.81 | 8.10 | 69.09 | |
| 0+100.00 | 10.00 | 8.93 | 0.090 | 0.80 | 8.07 | 77.16 | |
| 0+110.00 | 10.00 | 9.03 | 0.090 | 0.81 | 8.08 | 85.24 | |
| 0+112.60 | 2.60 | 8.97 | 0.090 | 0.81 | 2.11 | 87.35 | |
| 0+116.26 | 3.66 | 12.27 | 0.090 | 1.10 | 3.50 | 90.85 | |
| TOTAL: | | | | | 90.85 m³. | | |

ABSCISAS 0+125.57 - 0+260.00

C/ MACARA DESDE MIGUEL RIOFRIO HASTA AZUAY

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|-----------------|--------------|----------------|--------------|-------------------|----------------------|---------------|
| 0+125.57 | | 14.24 | 0.090 | 1.28 | | | |
| 0+126.92 | 1.35 | 10.95 | 0.090 | 0.99 | 1.53 | 1.53 | |
| 0+130.00 | 3.08 | 8.94 | 0.090 | 0.80 | 2.76 | 4.29 | |
| 0+140.00 | 10.00 | 8.98 | 0.090 | 0.81 | 8.06 | 12.35 | |
| 0+150.00 | 10.00 | 8.98 | 0.090 | 0.81 | 8.08 | 20.43 | |
| 0+160.00 | 10.00 | 8.96 | 0.090 | 0.81 | 8.07 | 28.50 | |
| 0+170.00 | 10.00 | 8.94 | 0.090 | 0.80 | 8.06 | 36.56 | |
| 0+180.00 | 10.00 | 8.96 | 0.090 | 0.81 | 8.06 | 44.62 | |
| 0+190.00 | 10.00 | 9.08 | 0.090 | 0.82 | 8.12 | 52.74 | |
| 0+200.00 | 10.00 | 8.97 | 0.090 | 0.81 | 8.12 | 60.86 | |
| 0+210.00 | 10.00 | 9.01 | 0.090 | 0.81 | 8.09 | 68.95 | |
| 0+220.00 | 10.00 | 9.02 | 0.090 | 0.81 | 8.11 | 77.06 | |
| 0+230.00 | 10.00 | 9.04 | 0.090 | 0.81 | 8.13 | 85.19 | |
| 0+234.98 | 4.98 | 9.04 | 0.090 | 0.81 | 4.05 | 89.24 | |
| 0+239.29 | 4.31 | 16.42 | 0.090 | 1.48 | 4.94 | 94.18 | |
| 0+248.44 | 9.15 | 16.41 | 0.090 | 1.48 | 13.52 | 107.70 | |
| 0+252.63 | 4.19 | 11.46 | 0.090 | 1.03 | 5.25 | 112.95 | |
| 0+260.00 | 7.37 | 8.10 | 0.090 | 0.73 | 6.49 | 119.44 | |
| TOTAL: | | | | | 119.44 m³. | | |

ABSCISAS 0+020.00 - 0+070.00

AV. 24 DE MAYO ENTRE AV. E. ORTEGA Y J. EGUIGUREN

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------------|-----------------|--------------|----------------|--------------|------------------|----------------------|---------------|
| 0+020.00 | | 12.14 | 0.050 | 0.61 | | | |
| 0+030.00 | 10.00 | 10.10 | 0.050 | 0.51 | 5.56 | 5.56 | |
| 0+040.00 | 10.00 | 10.13 | 0.050 | 0.51 | 5.06 | 10.62 | |
| 0+050.00 | 10.00 | 10.52 | 0.050 | 0.53 | 5.16 | 15.78 | |
| 0+060.00 | 10.00 | 10.55 | 0.050 | 0.53 | 5.27 | 21.05 | |
| 0+070.00 | 10.00 | 10.10 | 0.050 | 0.51 | 5.16 | 26.21 | |
| TOTAL : | | | | | 26.21 m³. | | |

| ABSCISAS | | 0+005.65 - | 0+200.00 | C/ LOURDES ENTRE E. ORTEGA Y MACARA | | | |
|----------|-----------------|--------------|----------------|-------------------------------------|-----------------|----------------------|---------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+005.65 | | 16.41 | 0.110 | 1.81 | | | |
| 0+010.00 | 4.35 | 12.22 | 0.090 | 1.10 | 6.32 | 6.32 | |
| 0+020.00 | 10.00 | 15.17 | 0.080 | 1.21 | 11.57 | 17.89 | |
| 0+030.00 | 10.00 | 17.60 | 0.080 | 1.41 | 13.11 | 31.00 | |
| 0+040.00 | 10.00 | 13.84 | 0.090 | 1.25 | 13.27 | 44.27 | |
| 0+045.00 | 5.00 | 11.58 | 0.100 | 1.16 | 6.01 | 50.28 | |
| 0+050.00 | 5.00 | 14.26 | 0.100 | 1.43 | 6.46 | 56.74 | |
| 0+060.00 | 10.00 | 17.26 | 0.080 | 1.38 | 14.03 | 70.77 | |
| 0+070.00 | 10.00 | 16.28 | 0.080 | 1.30 | 13.42 | 84.19 | |
| 0+080.00 | 10.00 | 16.31 | 0.080 | 1.30 | 13.04 | 97.23 | |
| 0+090.00 | 10.00 | 9.12 | 0.080 | 0.73 | 10.17 | 107.40 | |
| 0+100.00 | 10.00 | 9.16 | 0.080 | 0.73 | 7.31 | 114.71 | |
| 0+110.00 | 10.00 | 9.22 | 0.090 | 0.83 | 7.81 | 122.52 | |
| 0+120.00 | 10.00 | 9.31 | 0.090 | 0.84 | 8.34 | 130.86 | |
| 0+130.00 | 10.00 | 9.88 | 0.090 | 0.89 | 8.64 | 139.50 | |
| 0+140.00 | 10.00 | 9.40 | 0.090 | 0.85 | 8.68 | 148.18 | |
| 0+150.00 | 10.00 | 9.36 | 0.090 | 0.84 | 8.44 | 156.62 | |
| 0+160.00 | 10.00 | 9.32 | 0.090 | 0.84 | 8.41 | 165.03 | |
| 0+170.00 | 10.00 | 9.26 | 0.090 | 0.83 | 8.36 | 173.39 | |
| 0+175.00 | 5.00 | 11.75 | 0.090 | 1.06 | 4.73 | 178.12 | |
| 0+180.00 | 5.00 | 15.36 | 0.090 | 1.38 | 6.10 | 184.22 | |
| 0+190.00 | 10.00 | 17.62 | 0.100 | 1.76 | 15.72 | 199.94 | |
| 0+200.00 | 10.00 | 9.18 | 0.090 | 0.83 | 12.94 | 212.88 | |
| TOTAL : | | | | | 212.88 m³. | | |

| ABSCISAS | | 0+008.19 - | 0+081.75 | C/ MIGUEL RIOFRIO DESDE AV. E. ORTEGA HASTA MACARA | | | |
|----------|-----------------|--------------|----------------|--|-----------------|----------------------|---------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+008.19 | | 10.05 | 0.080 | 0.80 | | | |
| 0+013.54 | 5.35 | 8.03 | 0.080 | 0.64 | 3.87 | 3.87 | |
| 0+020.00 | 6.46 | 8.04 | 0.080 | 0.64 | 4.15 | 8.02 | |
| 0+030.00 | 10.00 | 8.01 | 0.080 | 0.64 | 6.42 | 14.44 | |
| 0+040.00 | 10.00 | 8.03 | 0.080 | 0.64 | 6.42 | 20.86 | |
| 0+050.00 | 10.00 | 8.01 | 0.080 | 0.64 | 6.42 | 27.28 | |
| 0+060.00 | 10.00 | 8.01 | 0.080 | 0.64 | 6.41 | 33.69 | |
| 0+064.98 | 4.98 | 7.92 | 0.080 | 0.63 | 3.17 | 36.86 | |
| 0+068.36 | 3.38 | 10.13 | 0.090 | 0.91 | 2.61 | 39.47 | |
| 0+080.62 | 12.26 | 10.14 | 0.080 | 0.81 | 10.56 | 50.03 | |
| 0+081.75 | 1.13 | 9.02 | 0.080 | 0.72 | 0.87 | 50.90 | |
| TOTAL : | | | | | 50.90 m³. | | |

| ABSCISAS | | 0+008.41 - | 0+037.75 | C/ ROCAFUERTE DESDE AV. E. ORTEGA HASTA MACARA | | | |
|----------|-----------------|--------------|----------------|--|-----------------|----------------------|---------------|
| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
| 0+008.41 | | 12.76 | 0.080 | 1.02 | | | |
| 0+012.25 | 3.84 | 10.84 | 0.080 | 0.87 | 3.62 | 3.62 | |
| 0+020.00 | 7.75 | 10.89 | 0.080 | 0.87 | 6.74 | 10.36 | |
| 0+030.00 | 10.00 | 10.97 | 0.070 | 0.77 | 8.20 | 18.56 | |
| 0+037.75 | 7.75 | 11.10 | 0.070 | 0.78 | 5.99 | 24.55 | |
| TOTAL : | | | | | 24.55 m³. | | |

**C/ JOSE ANTONIO EGUIGUREN DESDE AV. 24 DE MAYO
HASTA BUSTAMANTE**

ABSCISAS 0+003.67 - 0+057.30

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|-----------------|--------------|----------------|----------------|------------------|----------------------|---------------|
| 0+003.67 | | 19.39 | 0.050 | 0.97 | | | |
| 0+005.69 | 2.02 | 13.41 | 0.050 | 0.67 | 1.66 | 1.66 | |
| 0+008.70 | 3.01 | 9.03 | 0.060 | 0.54 | 1.82 | 3.48 | |
| 0+020.00 | 11.30 | 9.08 | 0.060 | 0.54 | 6.14 | 9.62 | |
| 0+030.00 | 10.00 | 9.08 | 0.050 | 0.45 | 4.99 | 14.61 | |
| 0+040.00 | 10.00 | 9.06 | 0.060 | 0.54 | 4.99 | 19.60 | |
| 0+050.00 | 10.00 | 9.13 | 0.050 | 0.46 | 5.00 | 24.60 | |
| 0+057.30 | 7.30 | 9.14 | 0.060 | 0.55 | 3.67 | 28.27 | |
| | | | | TOTAL : | 28.27 m³. | | |

**C/ AZUAY DESDE AV. EMILIANO ORTEGA HASTA
MACARA**

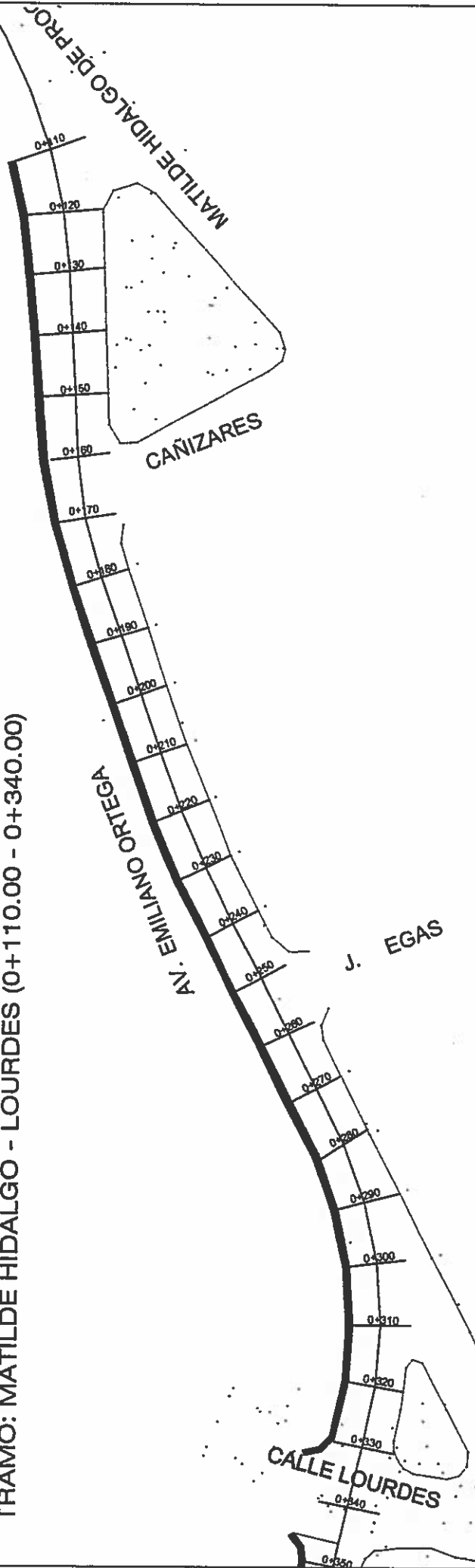
ABSCISAS 0+010.00 - 0+113.70

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|-----------------|--------------|----------------|----------------|------------------|----------------------|---------------|
| 0+010.00 | | 15.33 | 0.080 | 1.23 | | | |
| 0+020.00 | 10.00 | 9.57 | 0.080 | 0.77 | 9.96 | 9.96 | |
| 0+030.00 | 10.00 | 9.40 | 0.080 | 0.75 | 7.59 | 17.55 | |
| 0+040.00 | 10.00 | 9.37 | 0.080 | 0.75 | 7.51 | 25.06 | |
| 0+050.00 | 10.00 | 9.33 | 0.070 | 0.65 | 7.01 | 32.07 | |
| 0+060.00 | 10.00 | 9.33 | 0.080 | 0.75 | 7.00 | 39.07 | |
| 0+070.00 | 10.00 | 9.29 | 0.070 | 0.65 | 6.98 | 46.05 | |
| 0+080.00 | 10.00 | 9.32 | 0.080 | 0.75 | 6.98 | 53.03 | |
| 0+090.00 | 10.00 | 9.38 | 0.070 | 0.66 | 7.01 | 60.04 | |
| 0+100.00 | 10.00 | 9.32 | 0.090 | 0.84 | 7.48 | 67.52 | |
| 0+110.00 | 10.00 | 10.34 | 0.080 | 0.83 | 8.33 | 75.85 | |
| 0+113.70 | 3.70 | 13.51 | 0.070 | 0.95 | 3.28 | 79.13 | |
| | | | | TOTAL : | 79.13 m³. | | |

f
J

AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA ROCAFUERTE (0+110.00 - 0+860.00)

TRAMO: MATILDE HIDALGO - LOURDES (0+110.00 - 0+340.00)

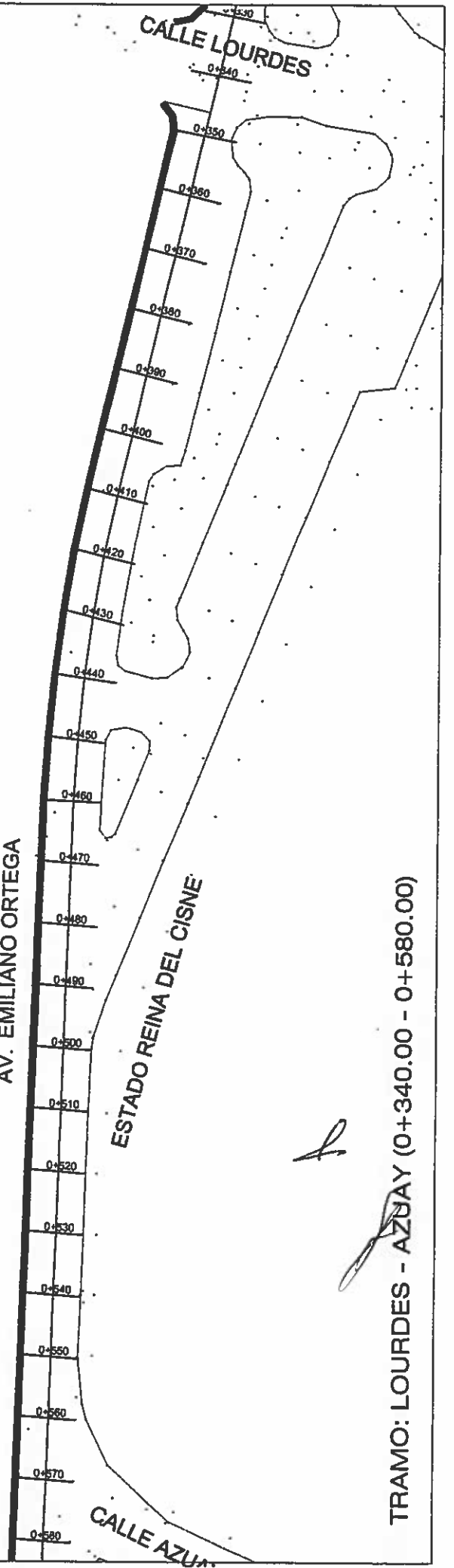


AV. EMILIANO ORTEGA

ESTADO REINA DEL CISNE

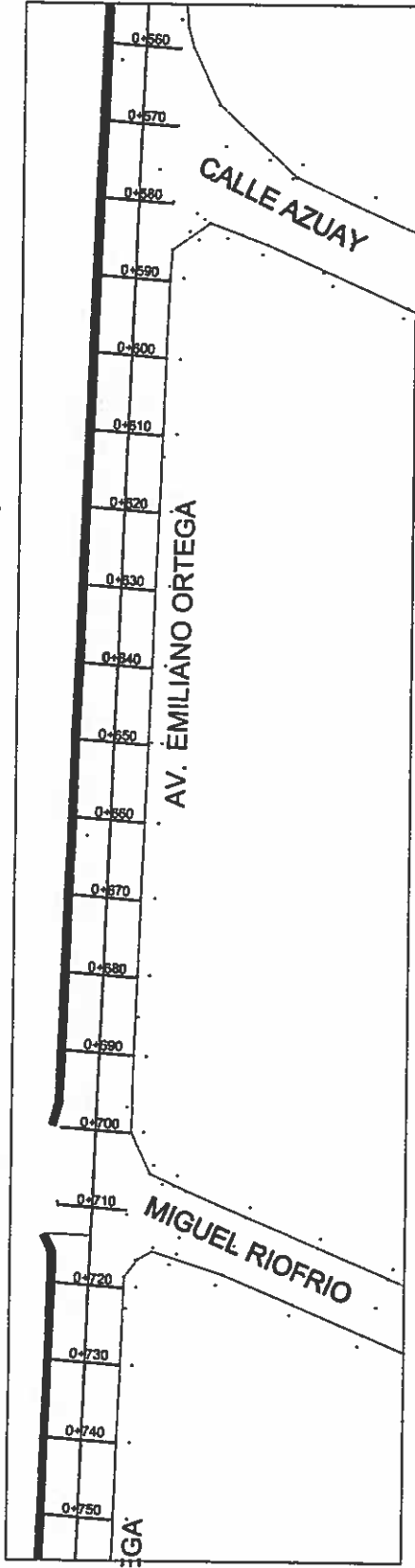
CALLE LOURDES

TRAMO: LOURDES - AZUAY (0+340.00 - 0+580.00)

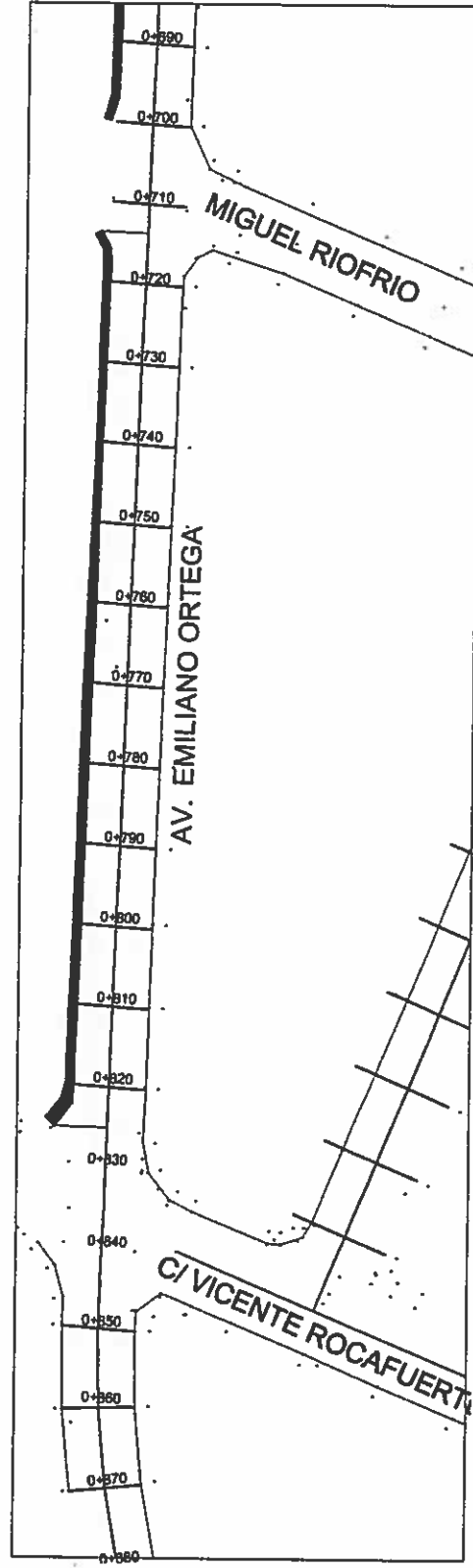


AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA ROCAFUERTE (0+110.00 - 0+860.00)

TRAMO: AZUAY HASTA MIGUEL RIOFRIO (0+580.00 - 0+720.00)



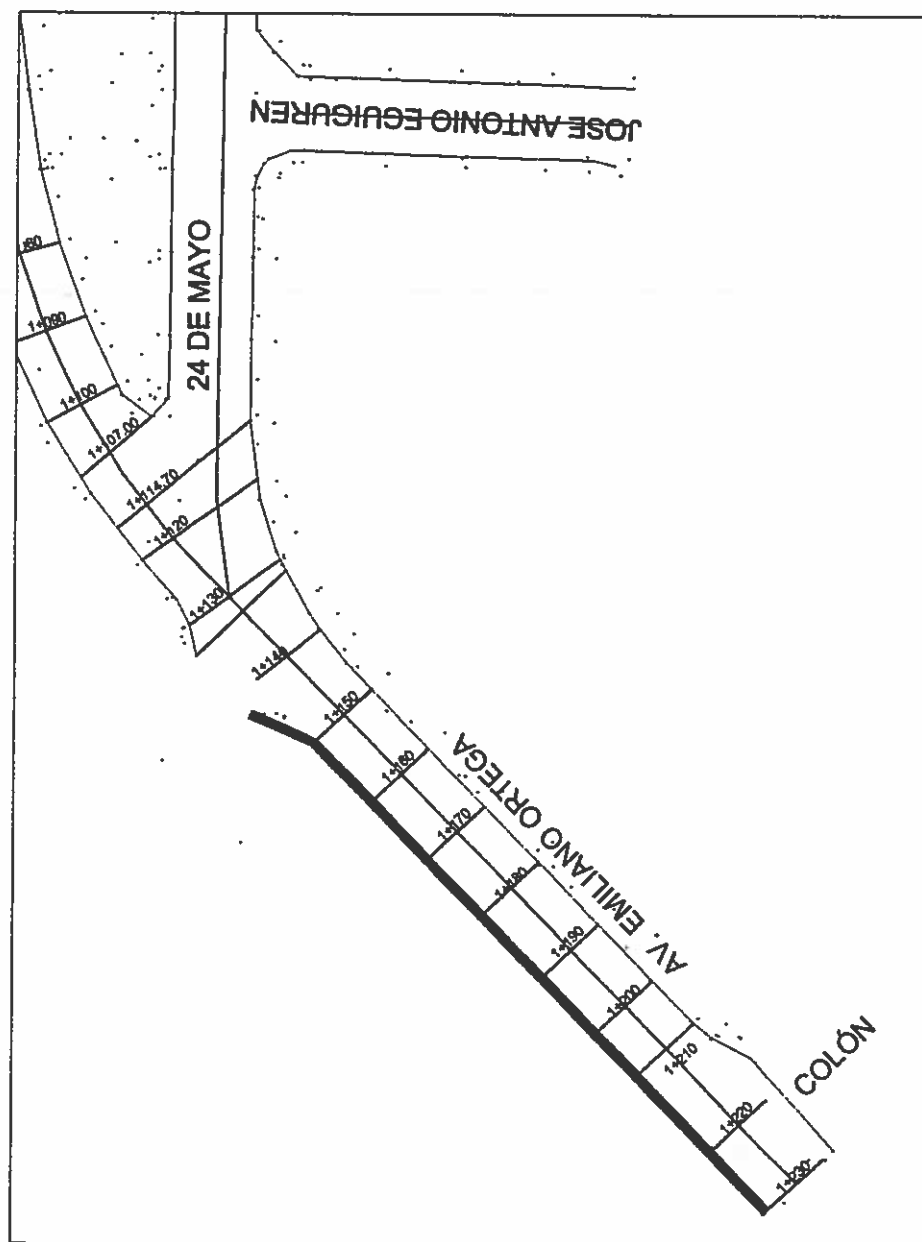
TRAMO: MIGUEL RIOFRIO HASTA ROCAFUERTE (0+700.00 - 0+860.00)



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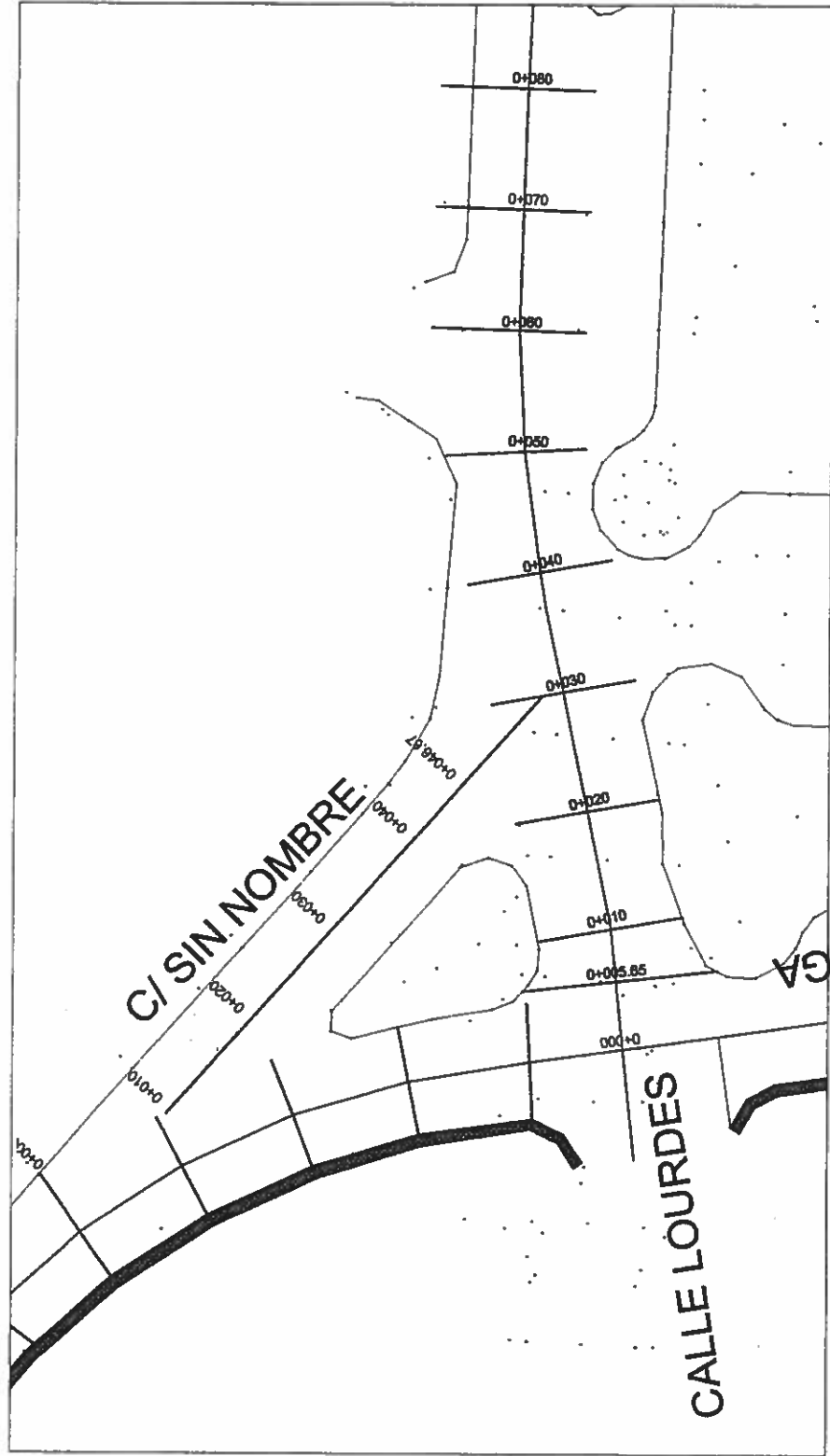
AV. EMILIANO ORTEGA DESDE 24 MAYO HASTA COLÓN (1+107.00 - 1+230.00)

TRAMO: 24 DE MAYO - COLÓN



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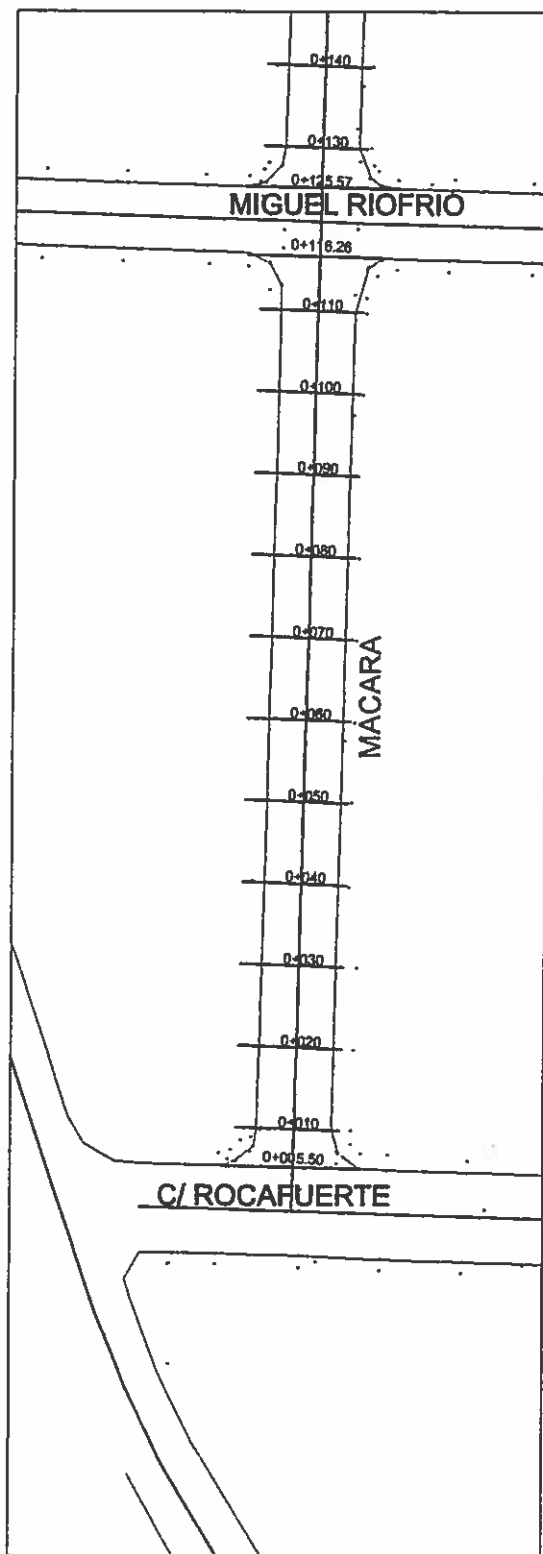
C/ SIN NOMBRE DESDE EMILIANO ORTEGA HASTA LOURDES (ABS 0+000.00 - 0+046.67)



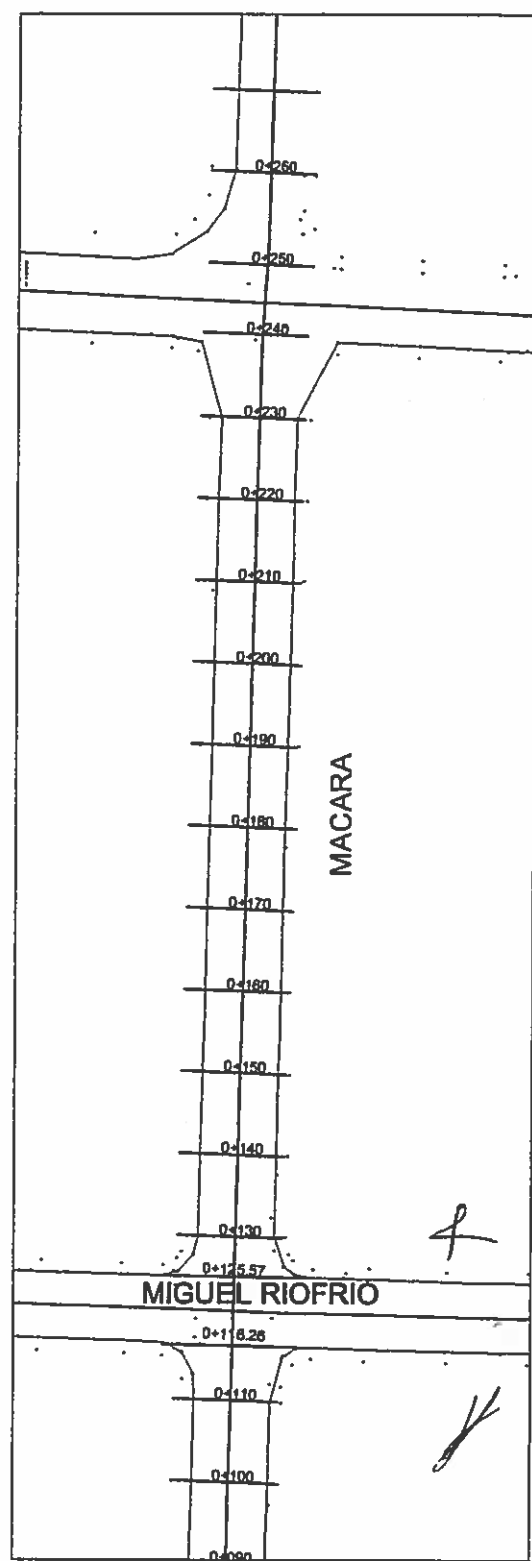
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C/ MACARÁ DESDE VICENTE ROCAFUERTE HASTA AZUAY

TRAMO: ROCAFUERTE - MIGUEL RIOFRIO (0+005.50 - 0+116.26)

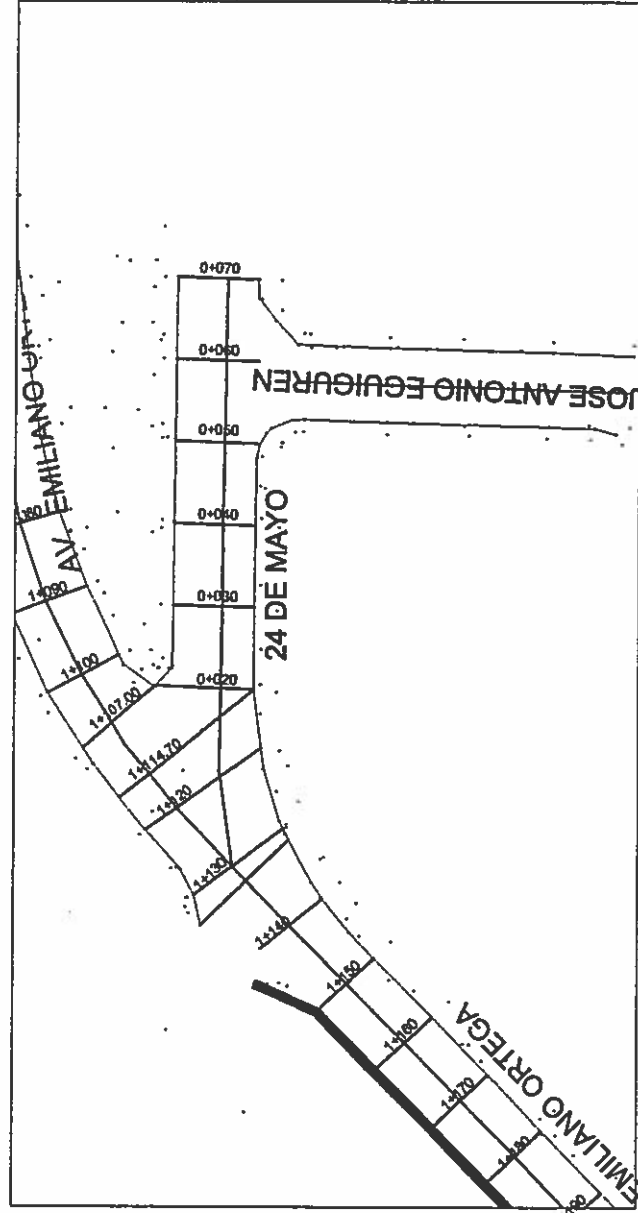


TRAMO: MIGUEL RIOFRIO - AZUAY (0+125.57 - 0+260.00)



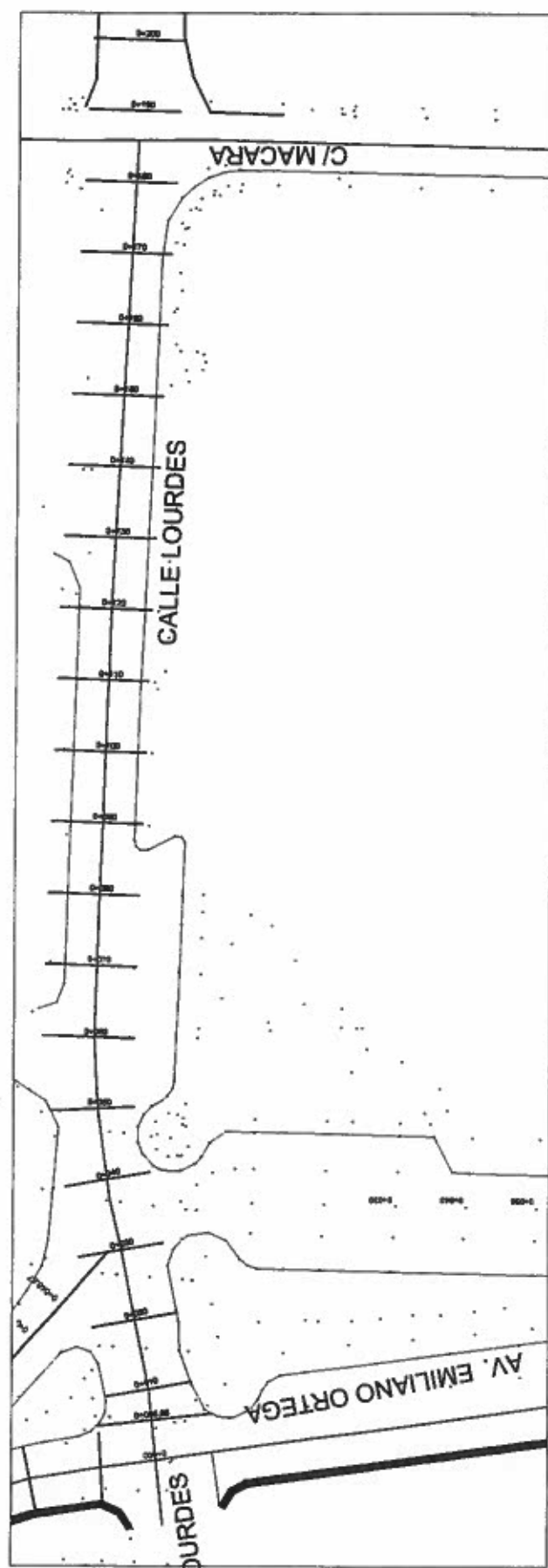
AV. 24 DE MAYO ENTRE AV. EMILIANO ORTEGA Y J. A. EGUIGUREN (0+020.00 - 0+070.00)

TRAMO: AV. E. ORTEGA - J. A. EGUIGUREN



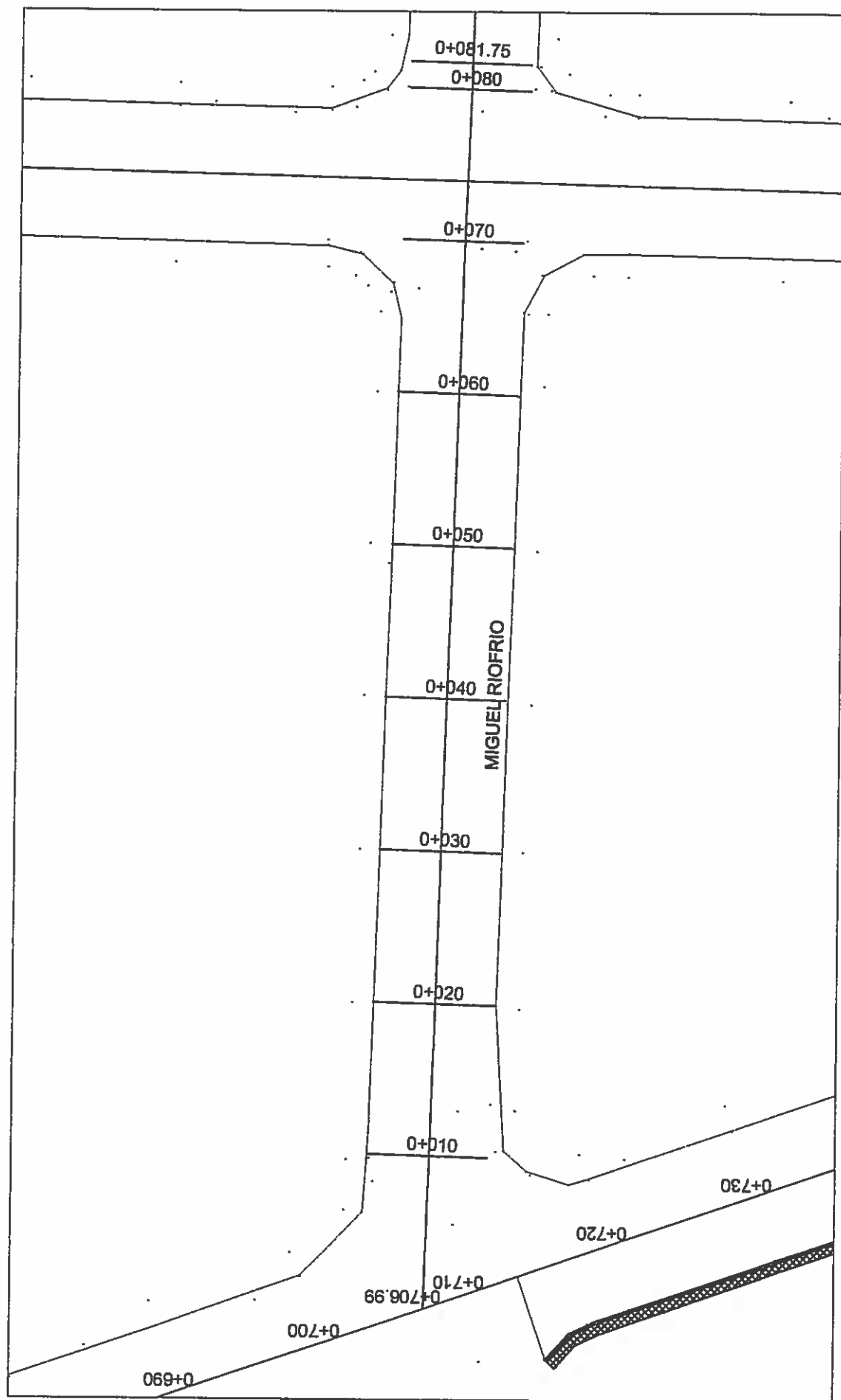
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C/ LOURDES DESDE AV. E. ORTEGA HASTA MACARA (0+005.65 - 0+200.00)

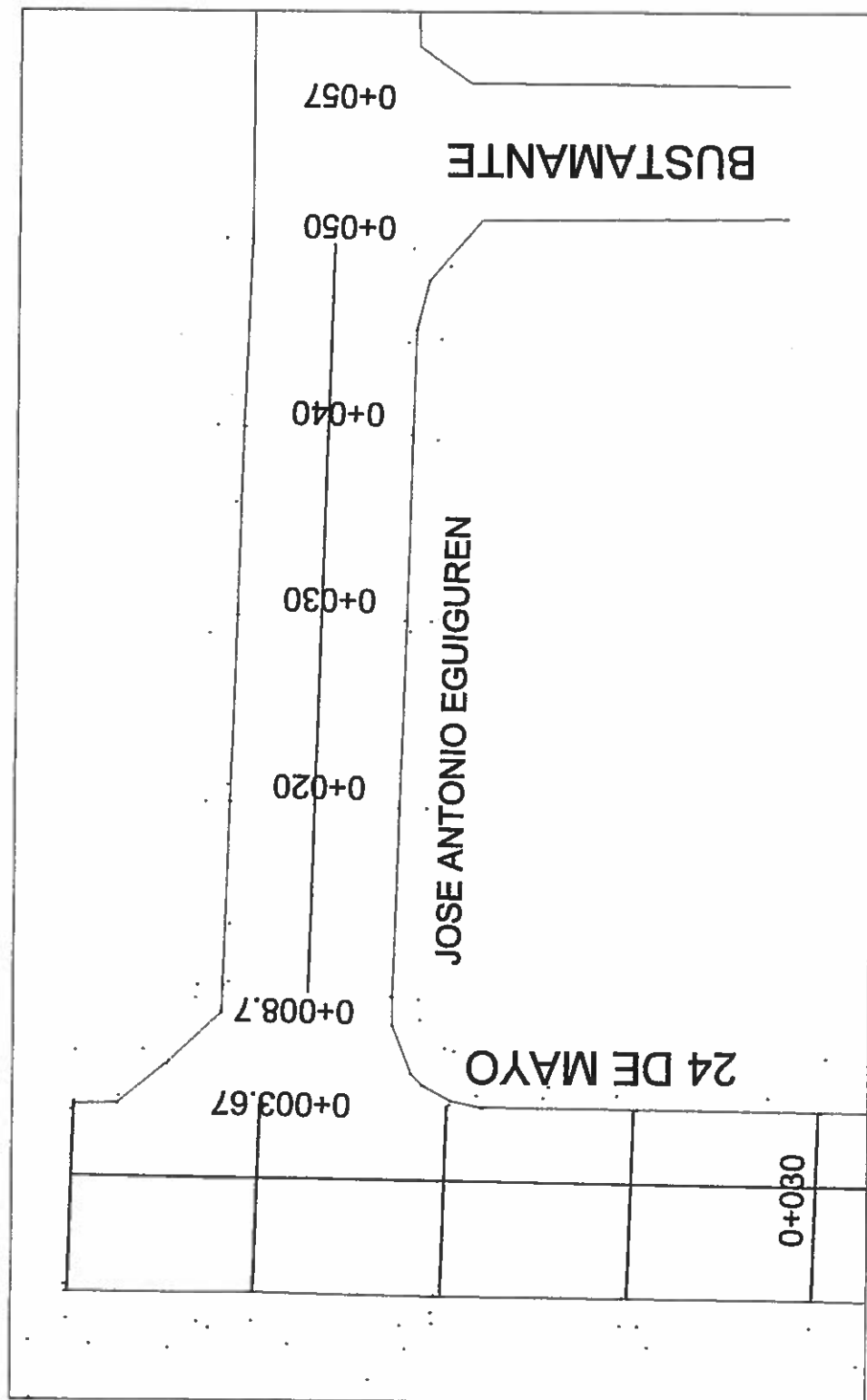


4

C/ MIGUEL RIOFRIO DESDE EMILIANO ORTEGA HASTA MACARA (ABS 0+008.19 - 0+081.75)

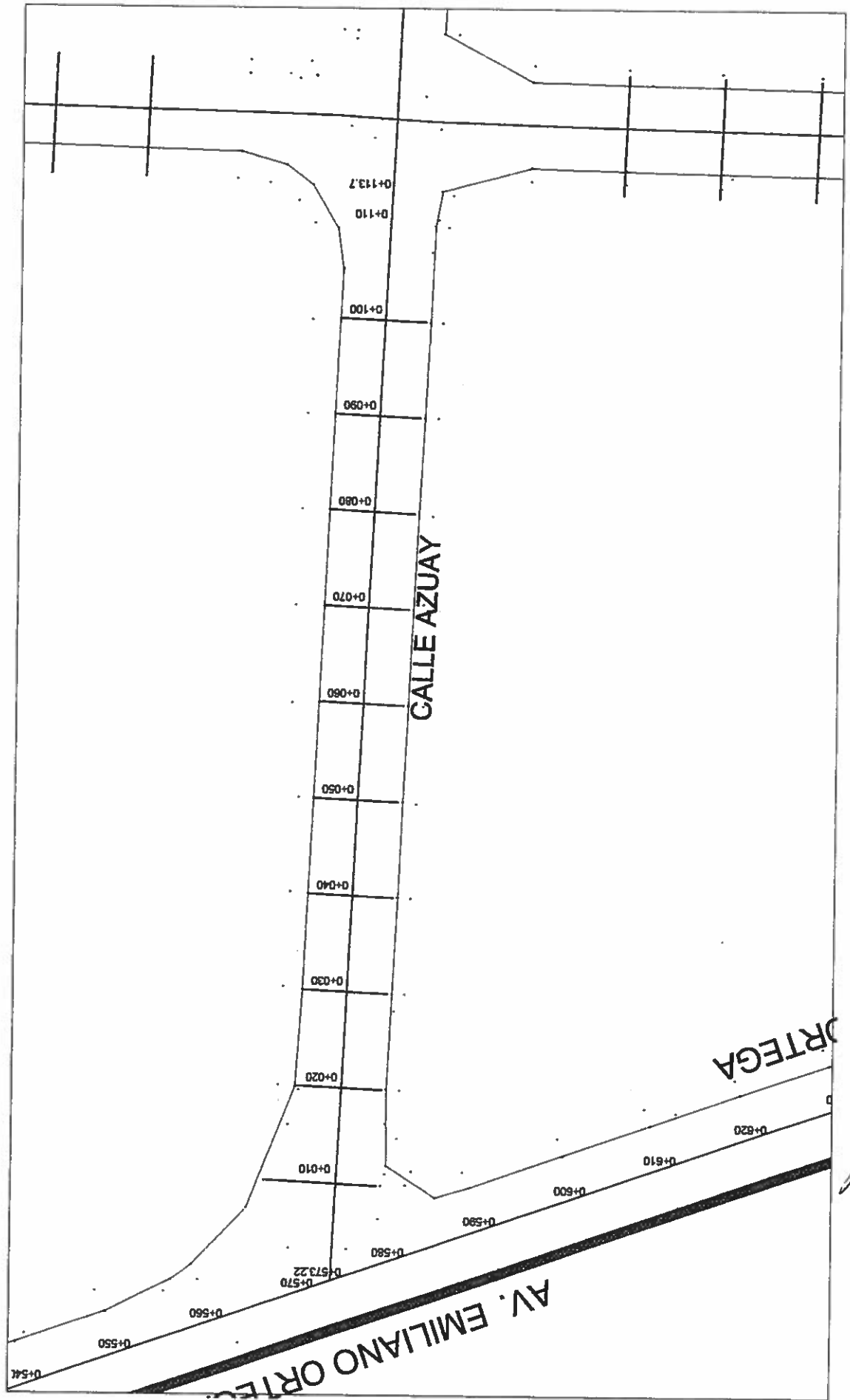


C/ J. A. EGUIGUTEN DESDE 24 DE MAYO HASTA BUSTAMANTE (ABS 0+003.67 - 0+057.00)

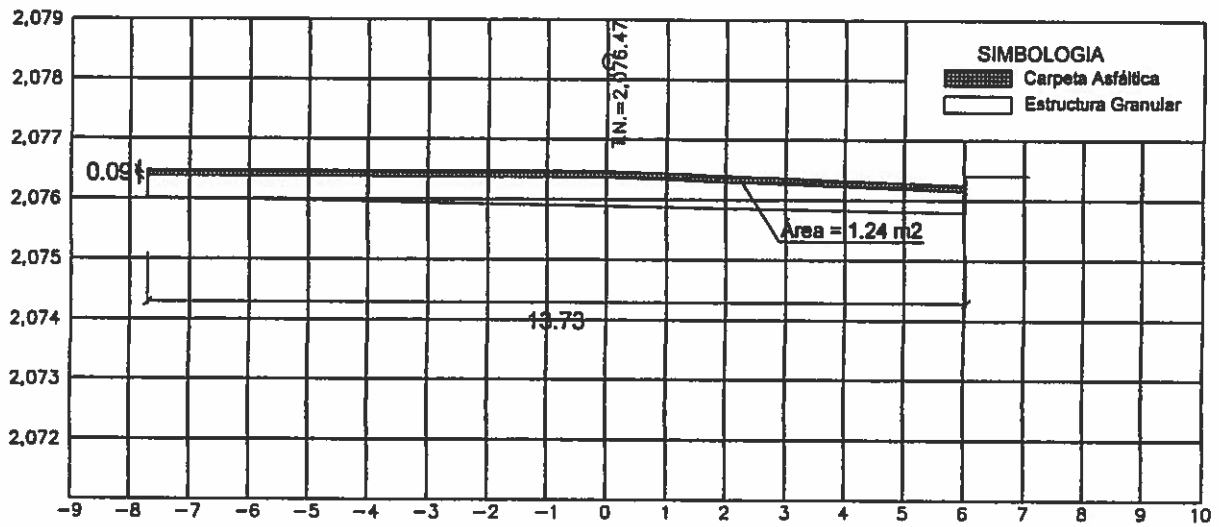


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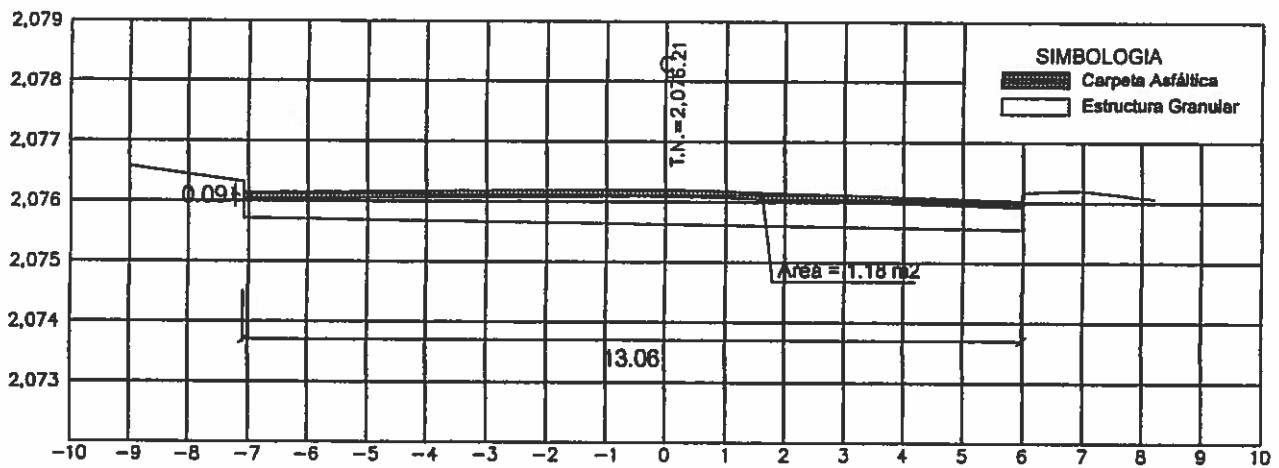
C/ AZUAY DESDE EMILIANO ORTEGA HASTA MACARA (ABS 0+010.00 - 0+113.70)



RU0002 RECUPERACIÓN DE HORMIGÓN ASFALTICO CON FRESADORA
 AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA ROCAFUERTE

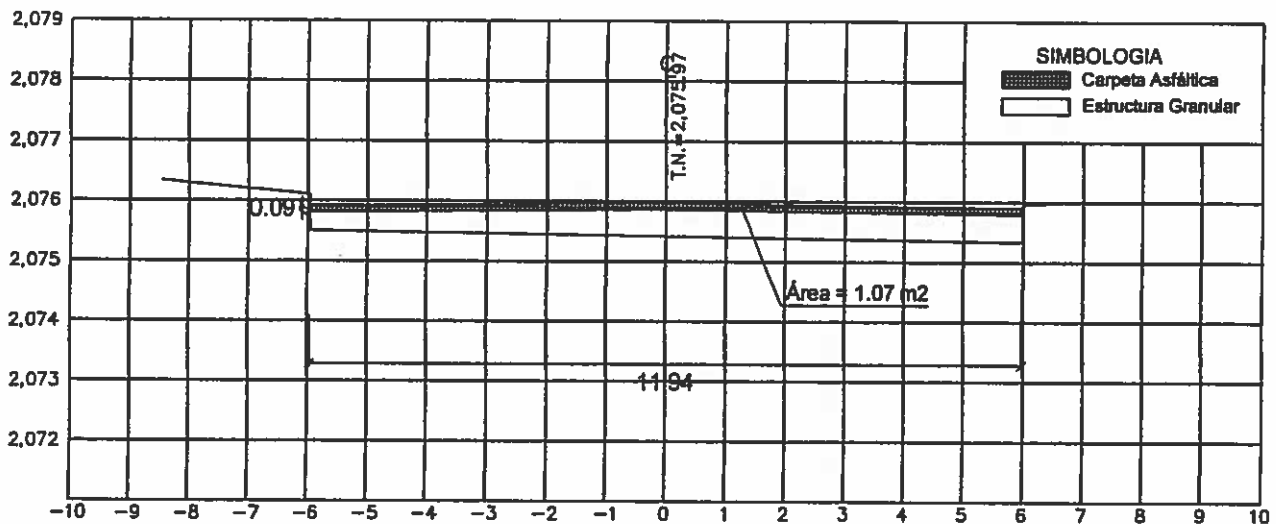


ESTACION 0+110.00
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 ESCALA VERTICAL 1 : 100



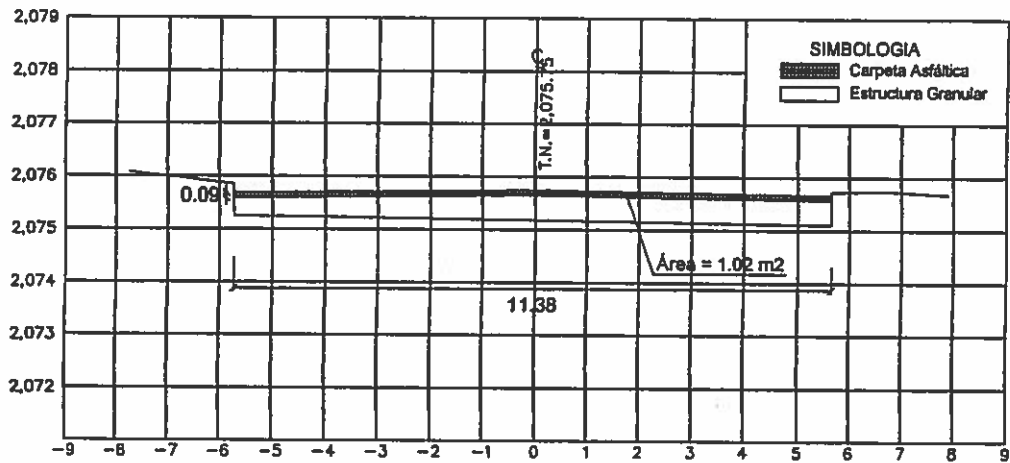
ESTACION 0+120.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

4

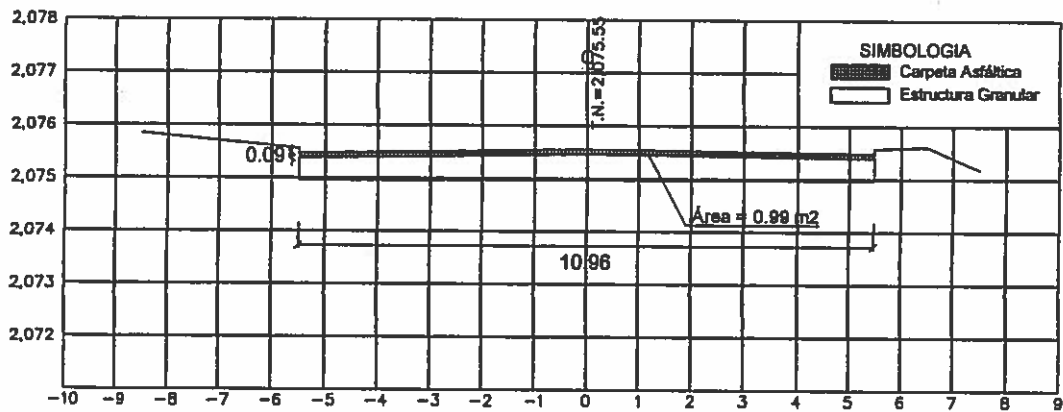


ESTACION 0+130.00
 ESCALA HORIZONTAL 1 : 100
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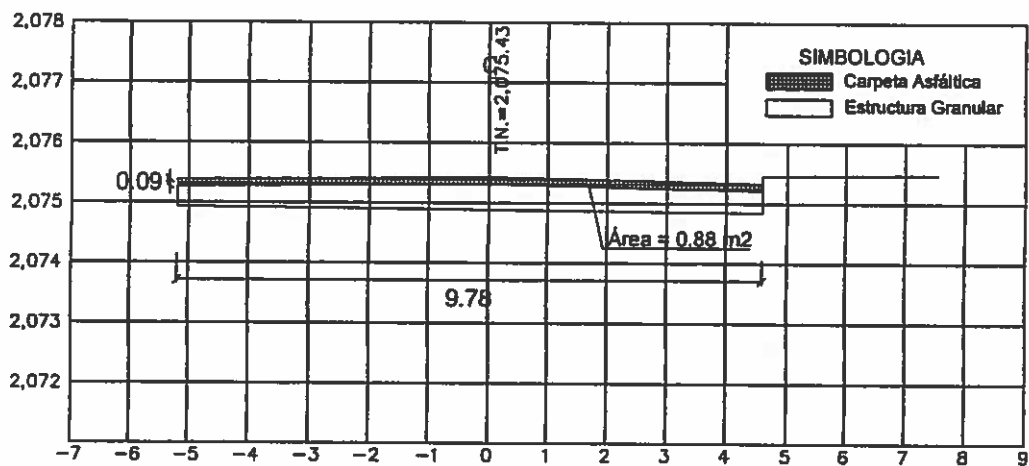
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ESTACION 0+140.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



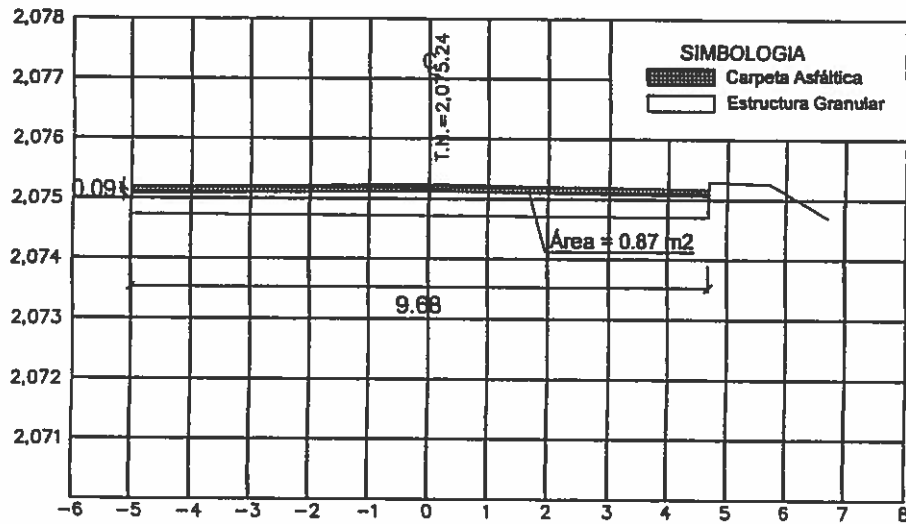
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 ESCALA VERTICAL 1 : 100



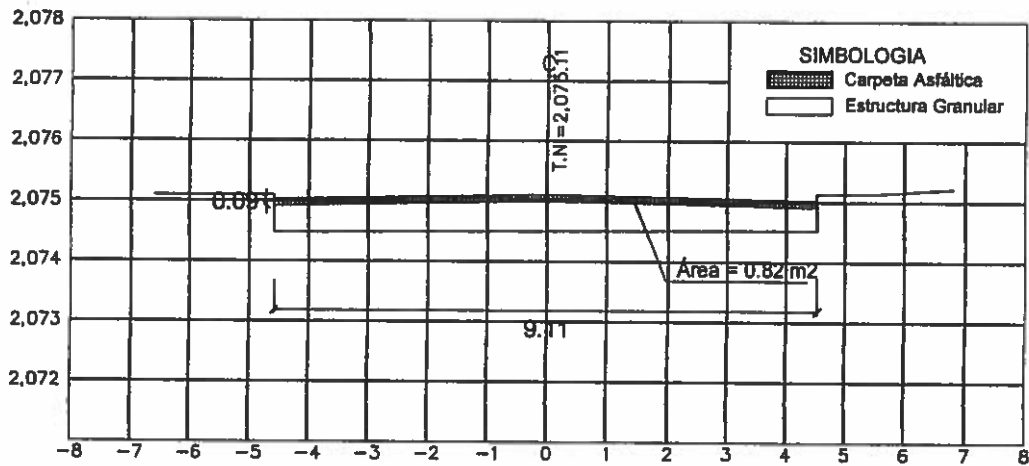
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 ESCALA VERTICAL 1 : 100

4

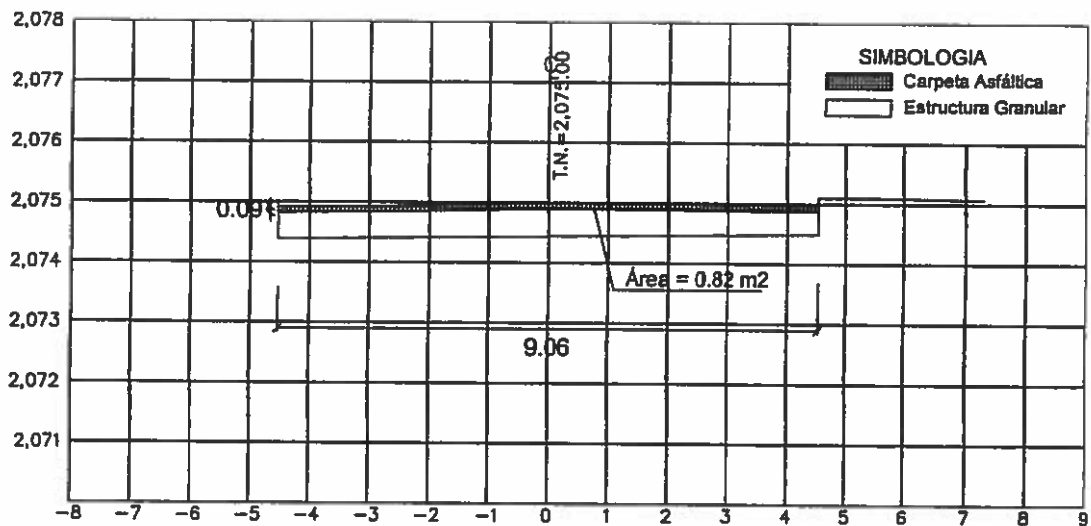
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ESTACION 0+170.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



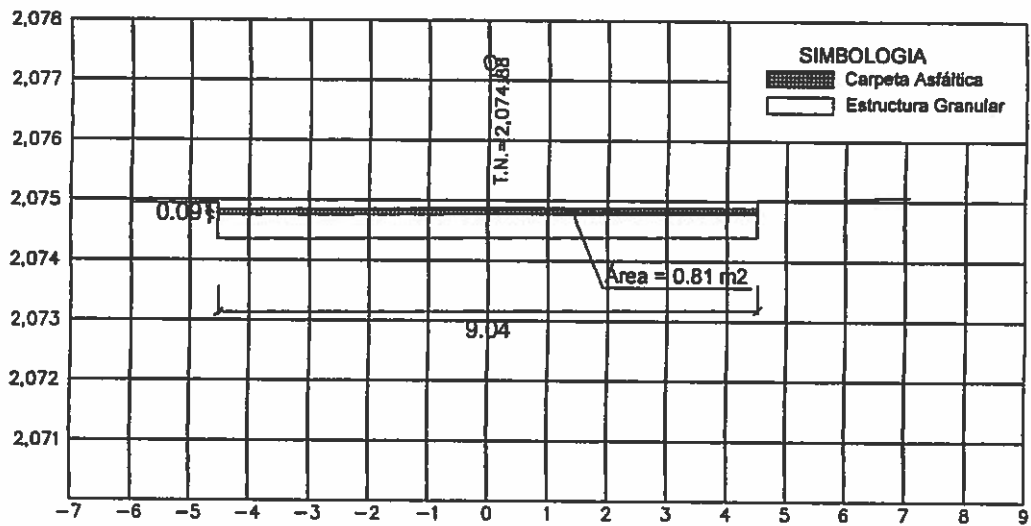
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 ESCALA VERTICAL 1 : 100



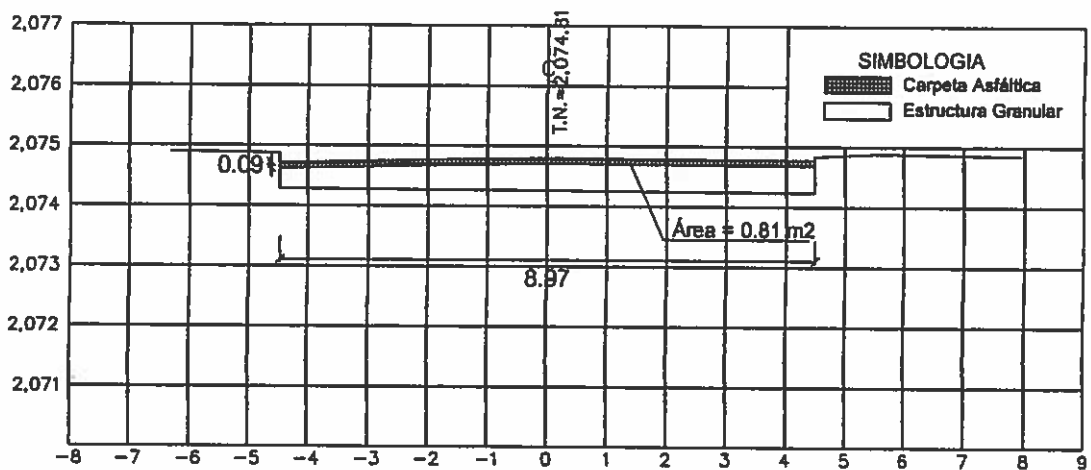
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 ESCALA VERTICAL 1 : 100

f

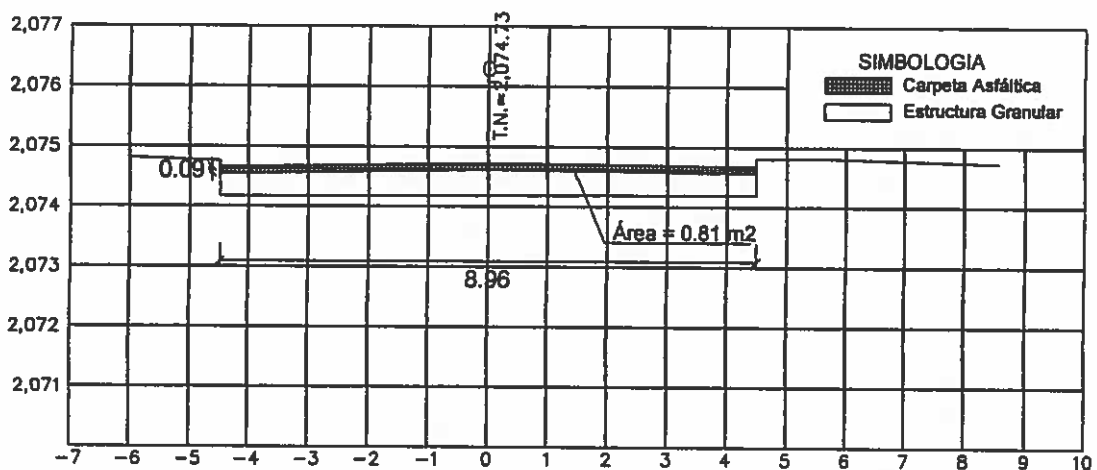
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ESTACION 0+200.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



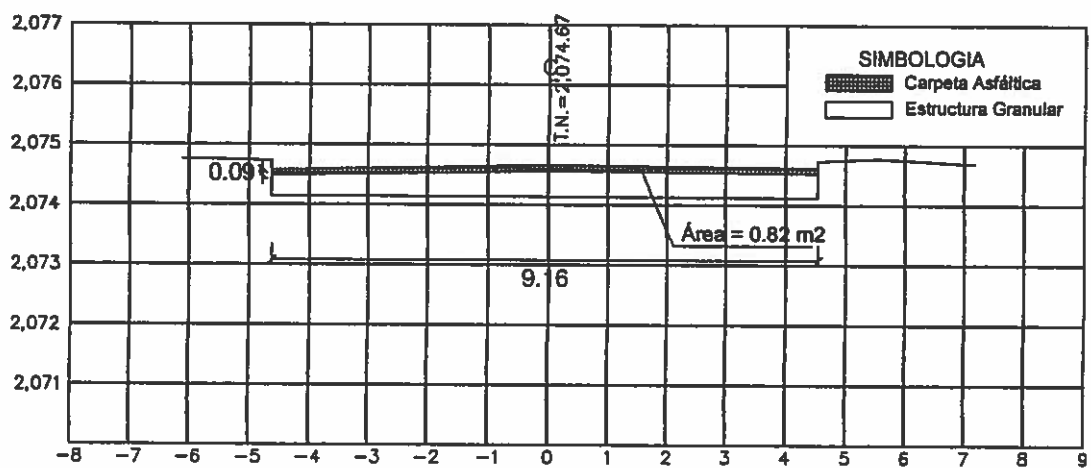
ESTACION 0+210.00
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 ESCALA VERTICAL 1 : 100



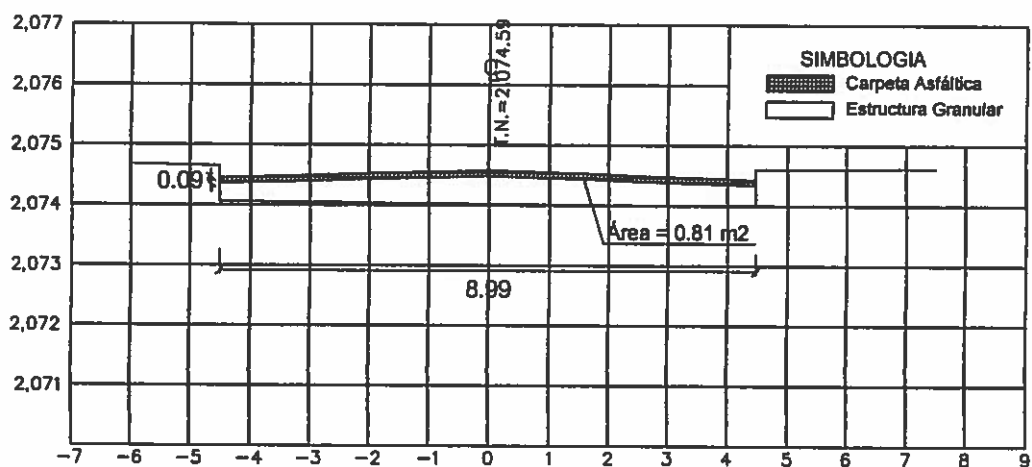
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f

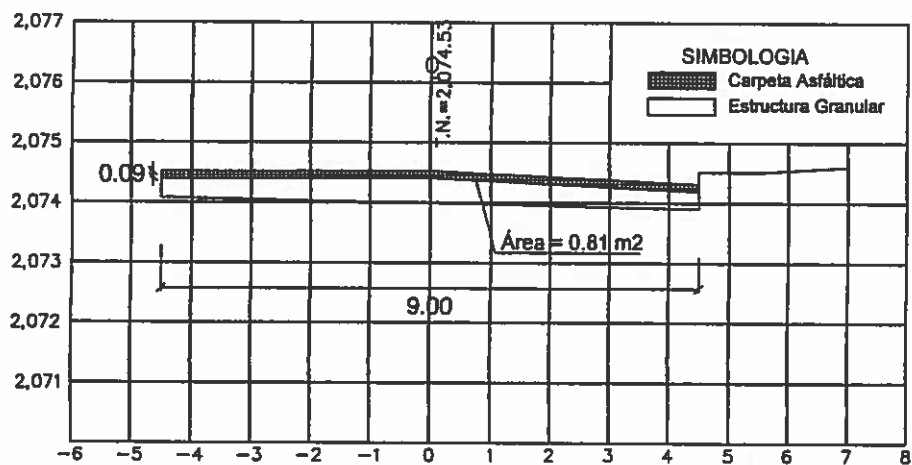
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ESTACION 0+230.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



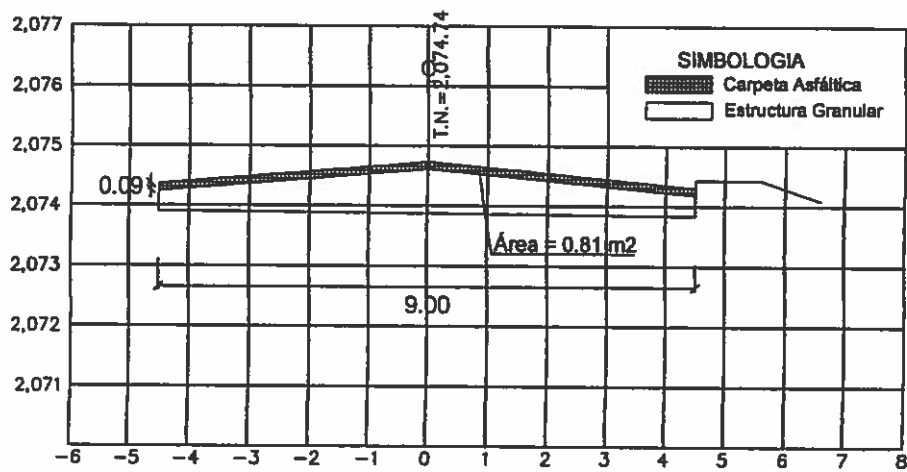
ESTACION 0+240.00
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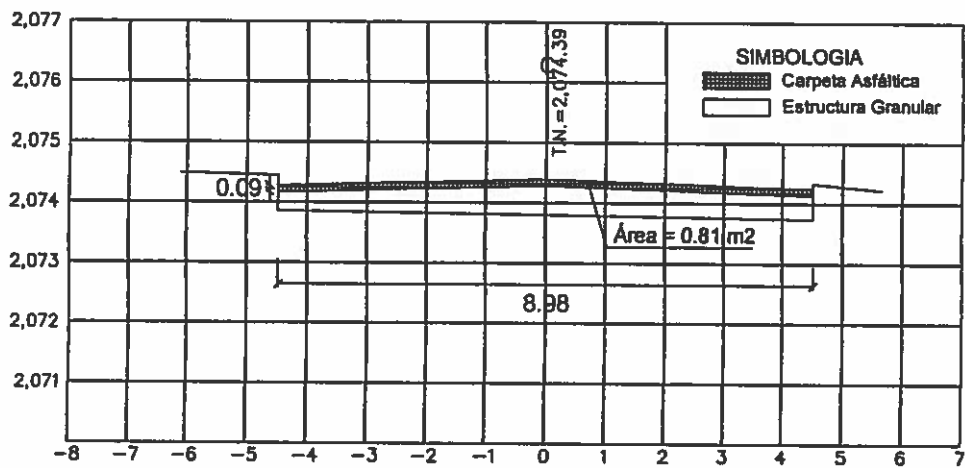
ESTACION 0+250.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

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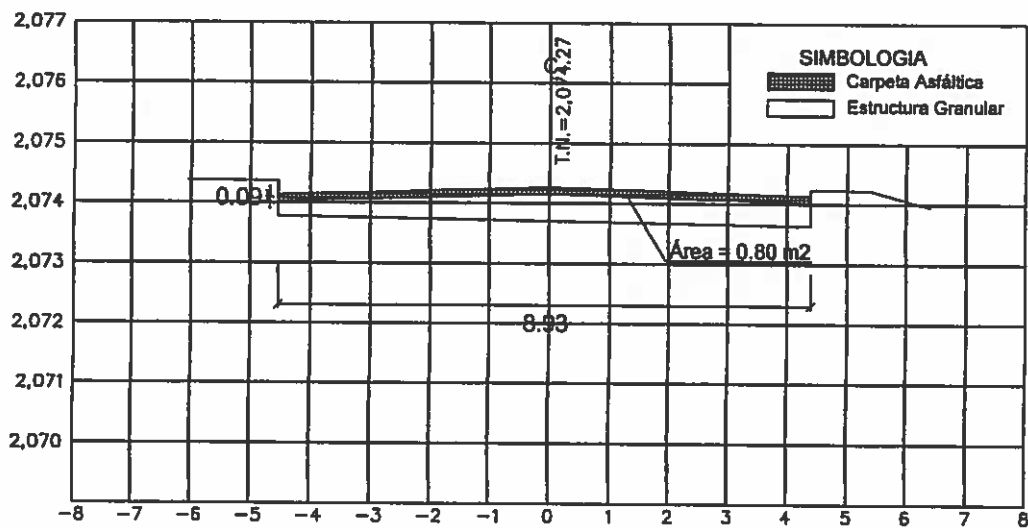
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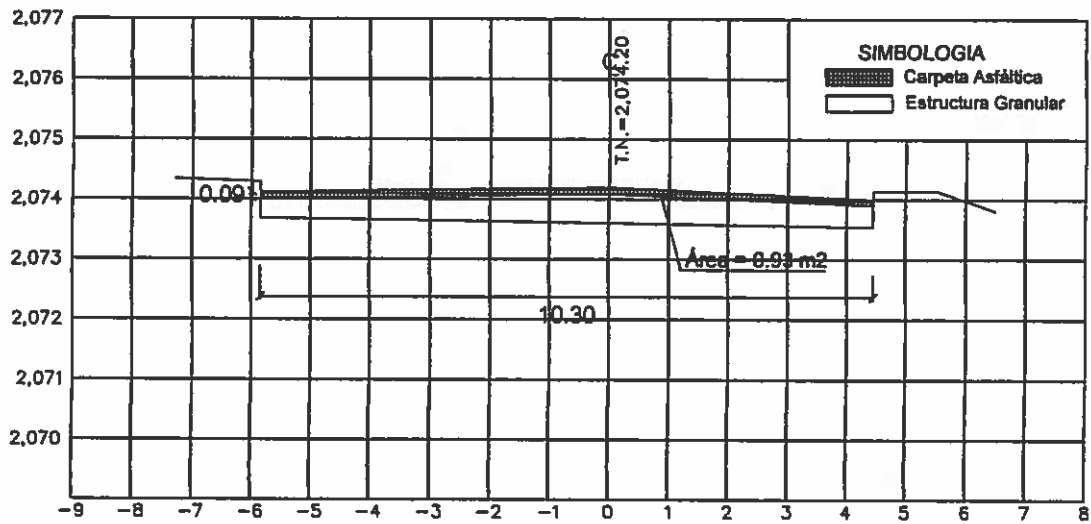
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 ESCALA VERTICAL 1 : 100



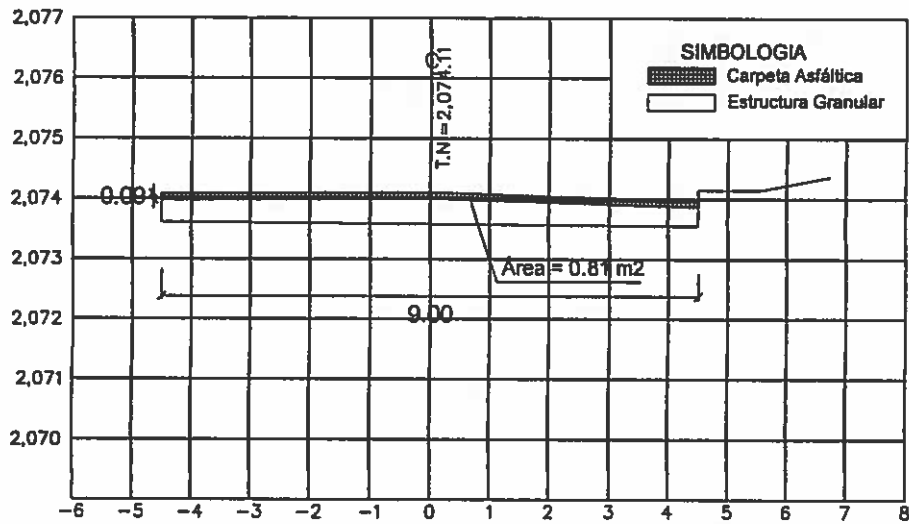
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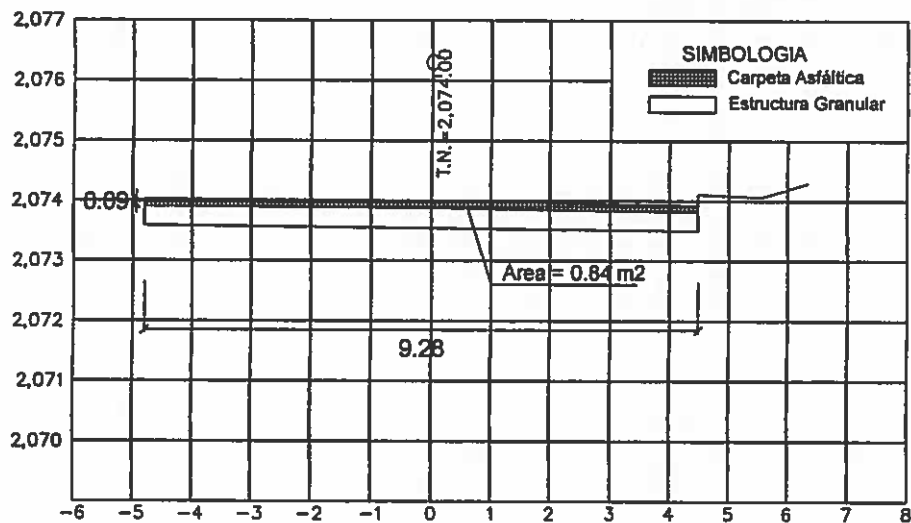
ESTACION 0+280.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+290.00
 ESCALA HORIZONTAL 1 : 100
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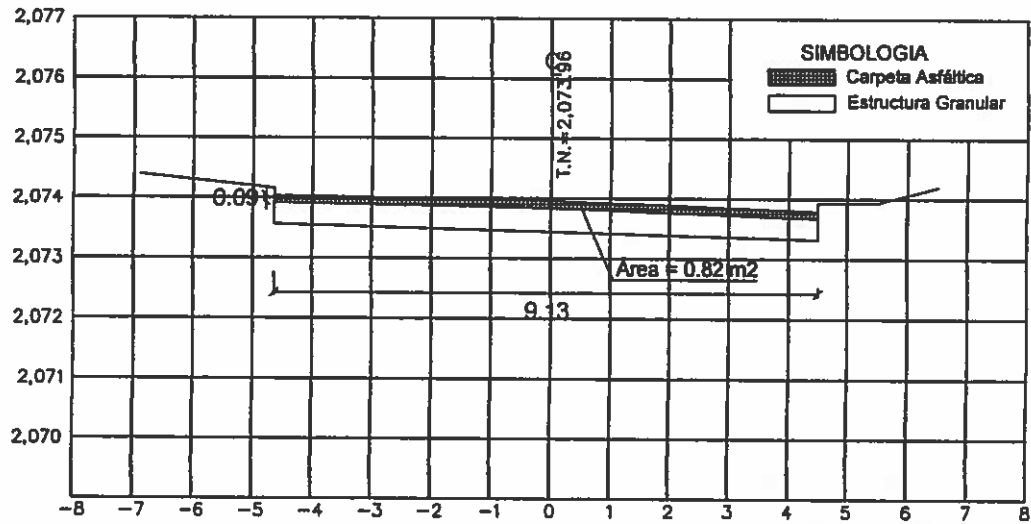


ESTACION 0+300.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

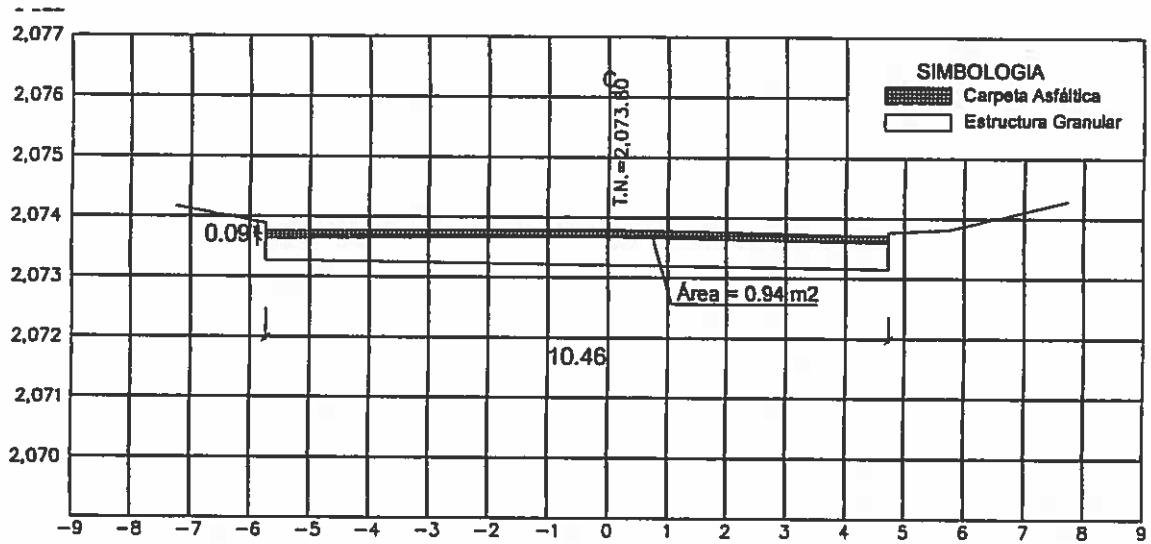


ESTACION 0+310.00
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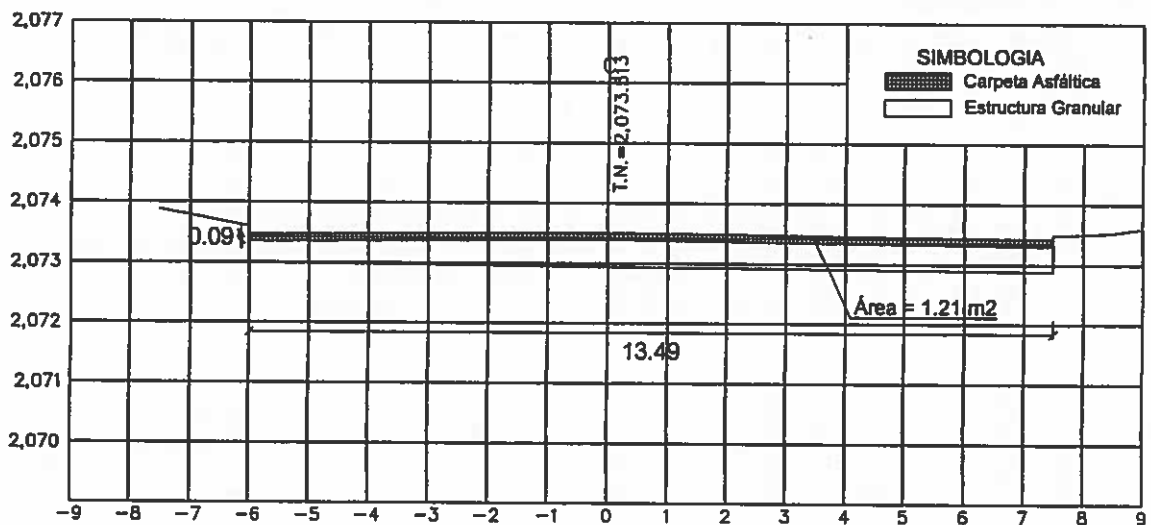
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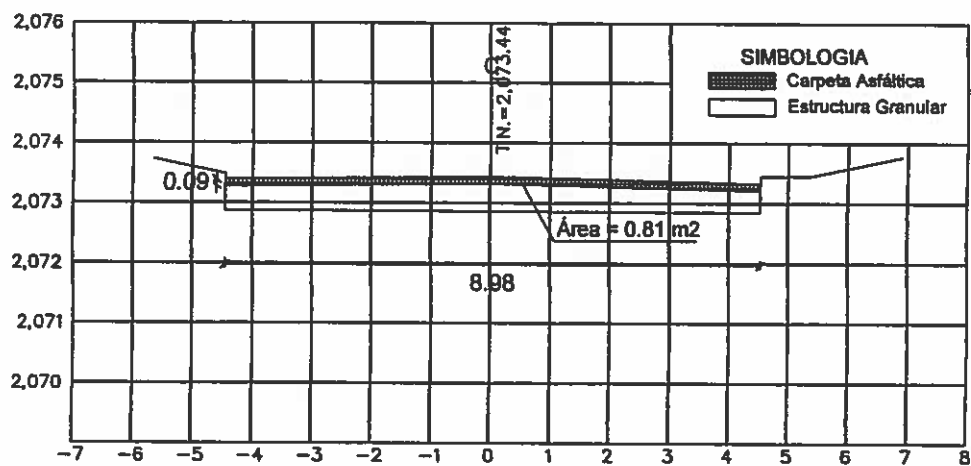
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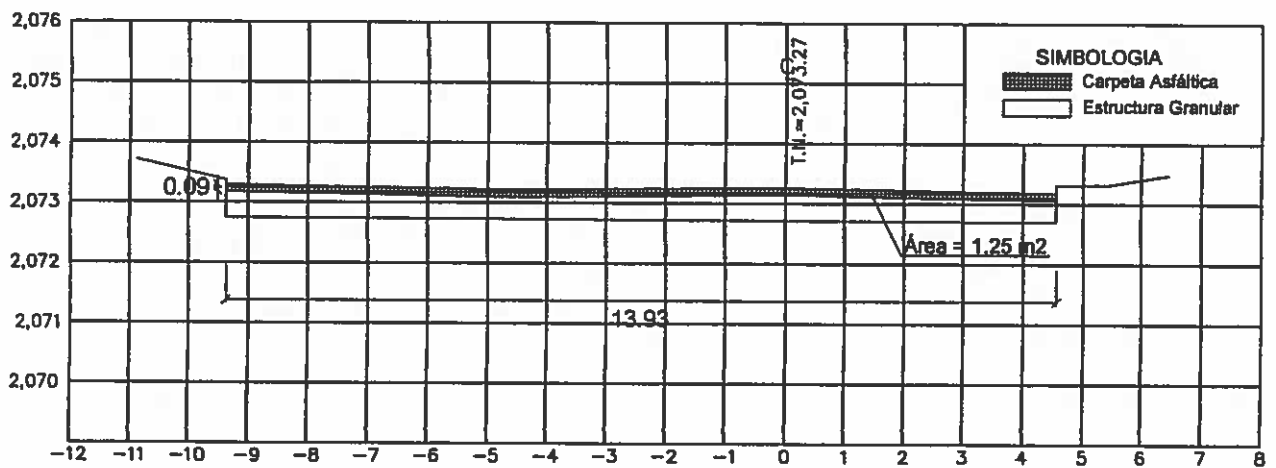
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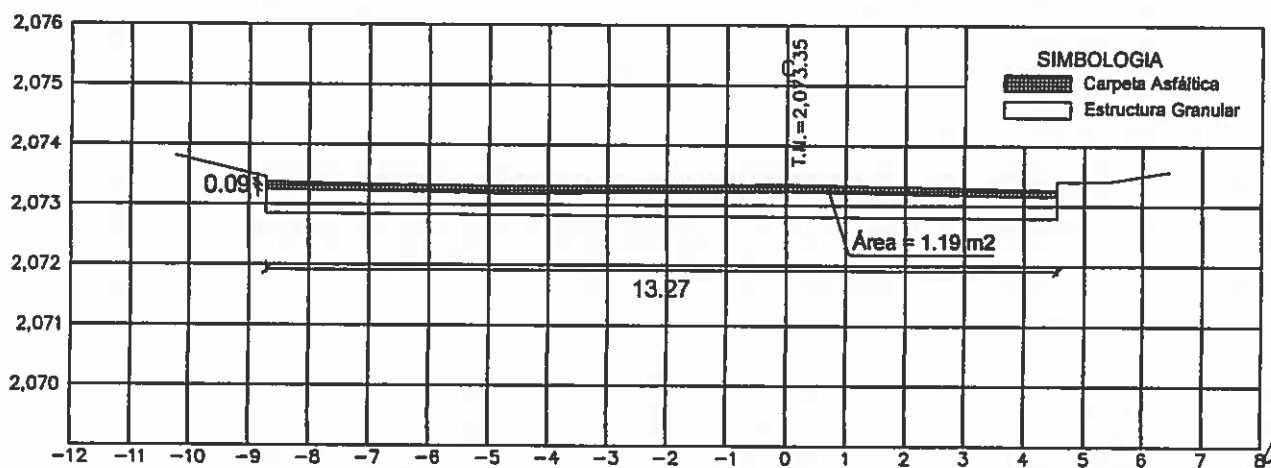
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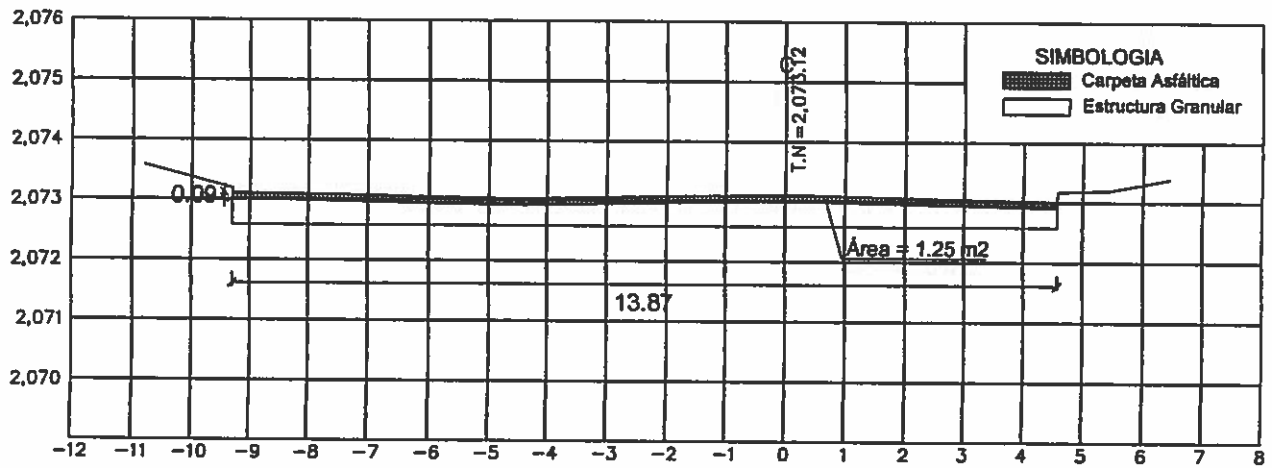
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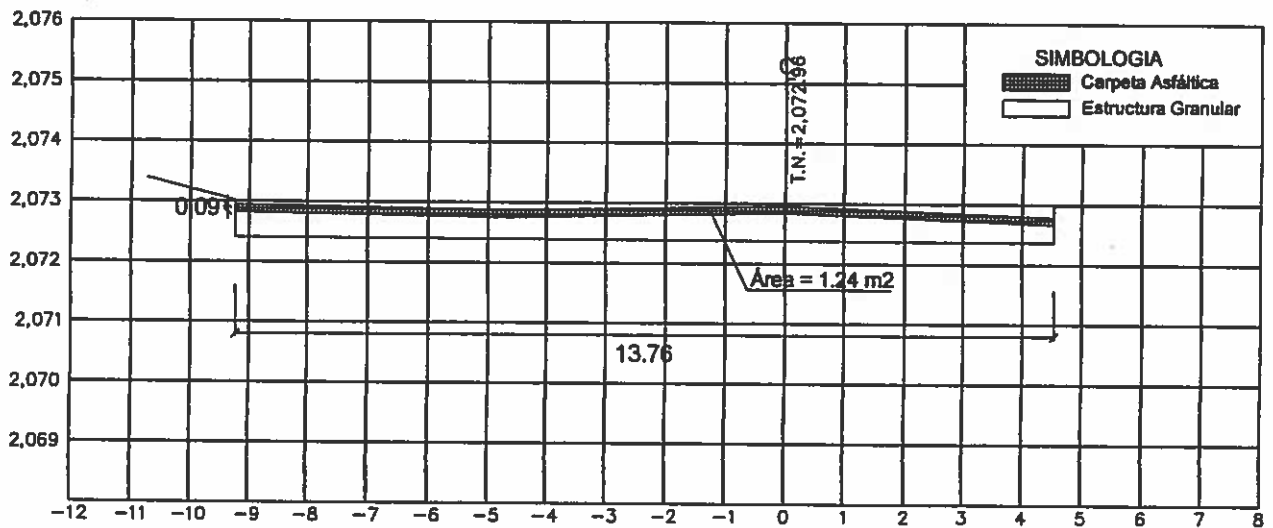
ESTACION 0+360.00
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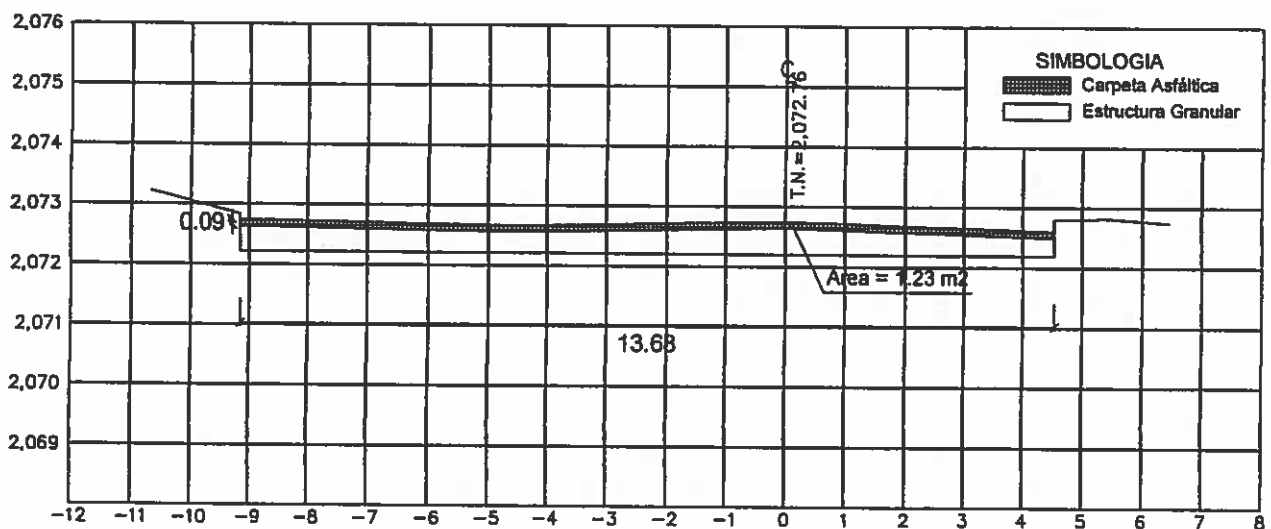
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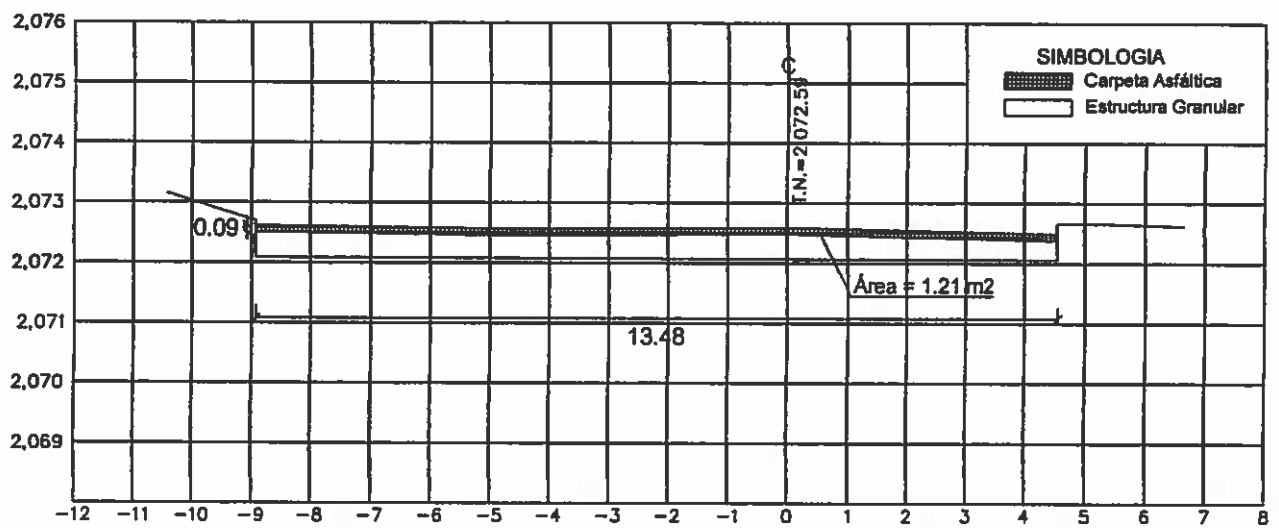
ESTACION 0+370.00
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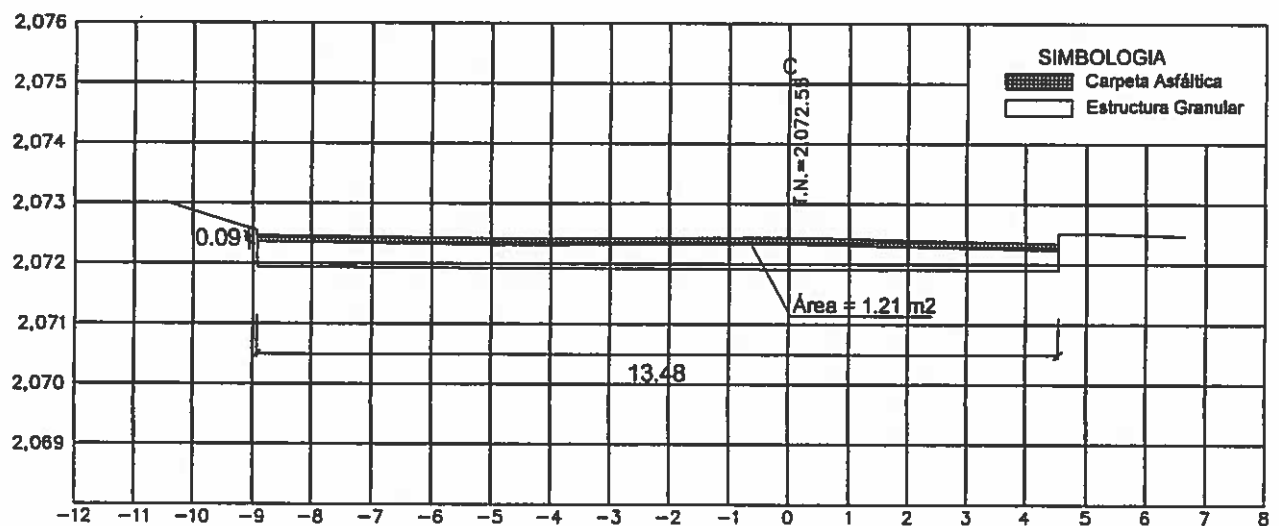
ESTACION 0+380.00
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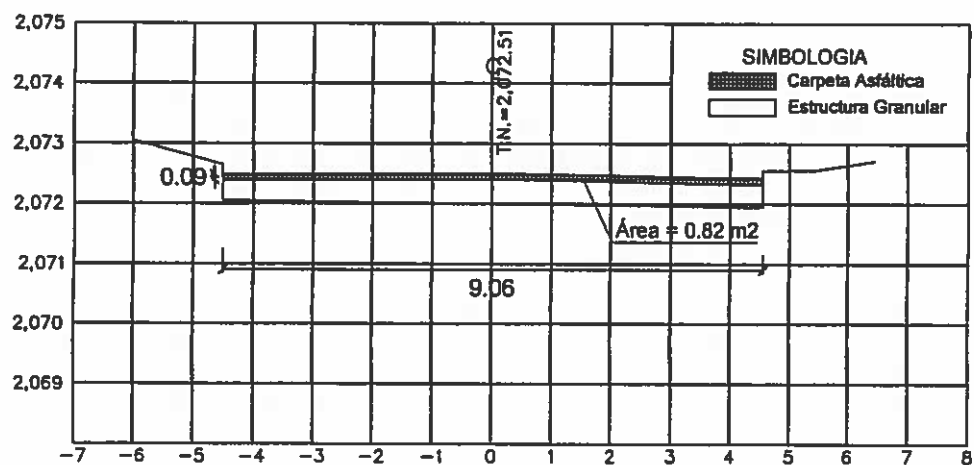
ESTACION 0+390.00
 ESCALA HORIZONTAL 1 : 100
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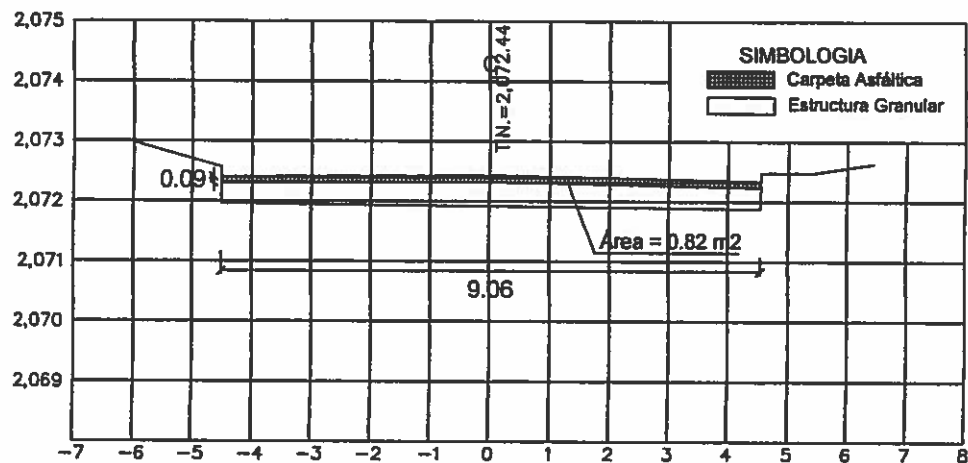
ESTACION 0+400.00
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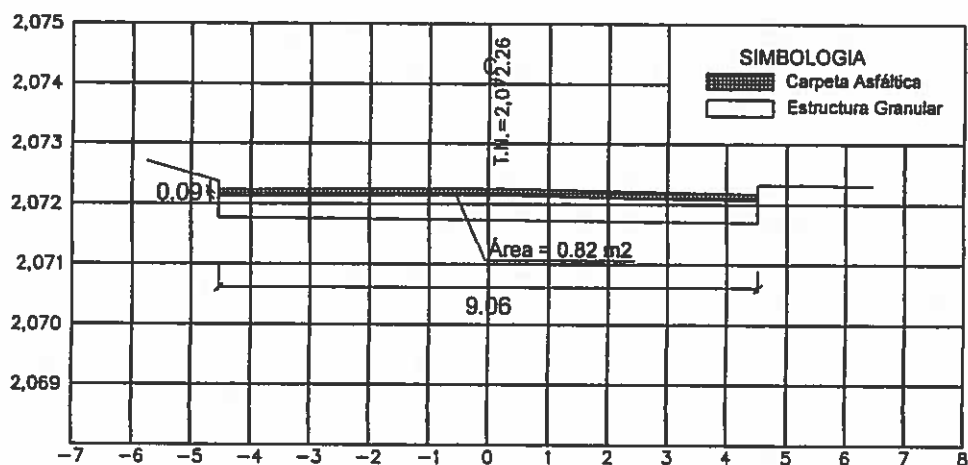
ESTACION 0+402.50
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 ESCALA VERTICAL 1 : 100



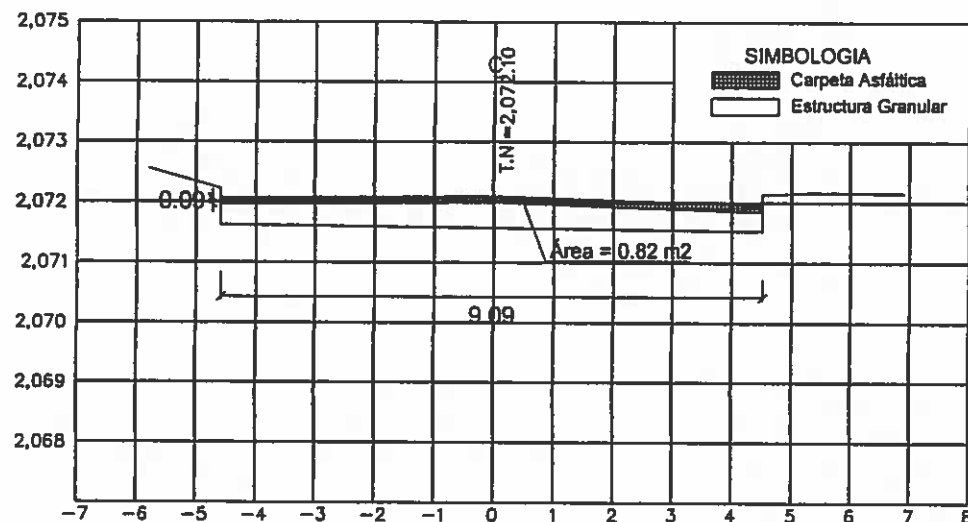
ESTACION 0+405.00
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 ESCALA VERTICAL 1 : 100



ESTACION 0+410.00
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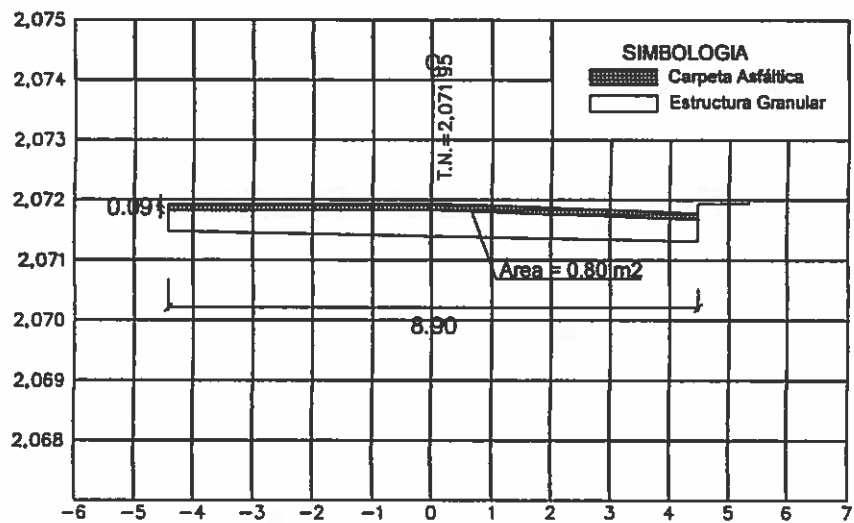
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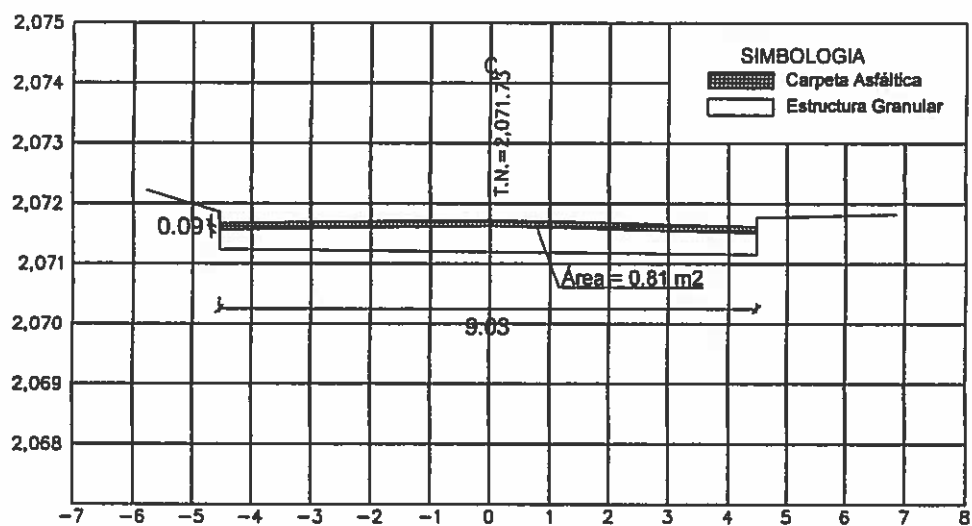
ESTACION 0+430.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

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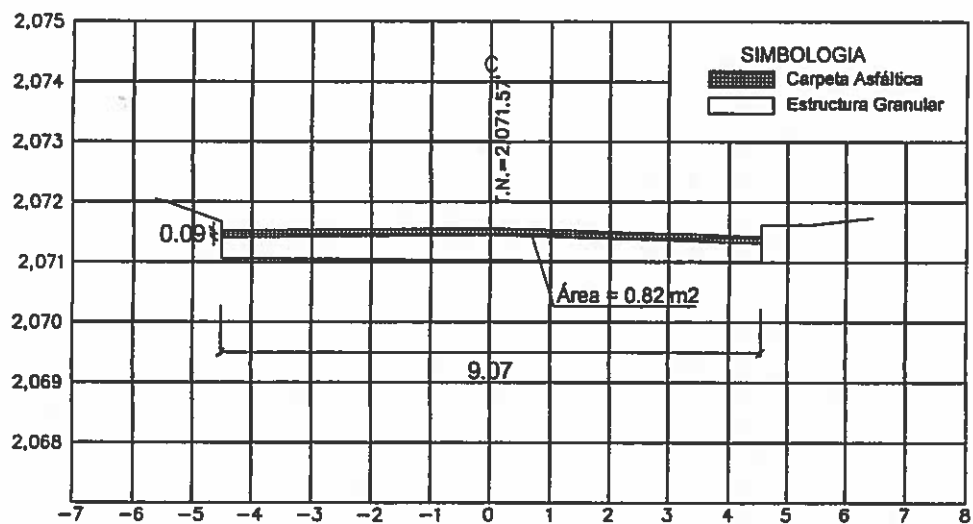
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ESTACION 0+440.00
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 ESCALA VERTICAL 1 : 100

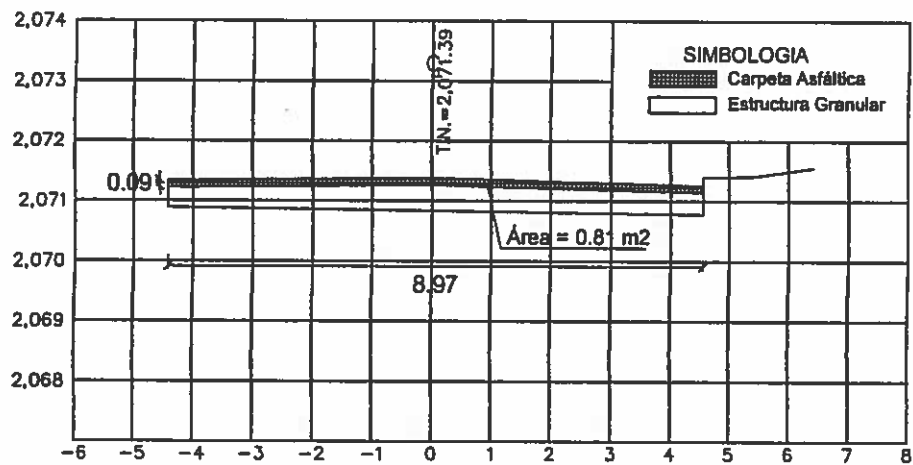


ESTACION 0+450.00
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 ESCALA VERTICAL 1 : 100

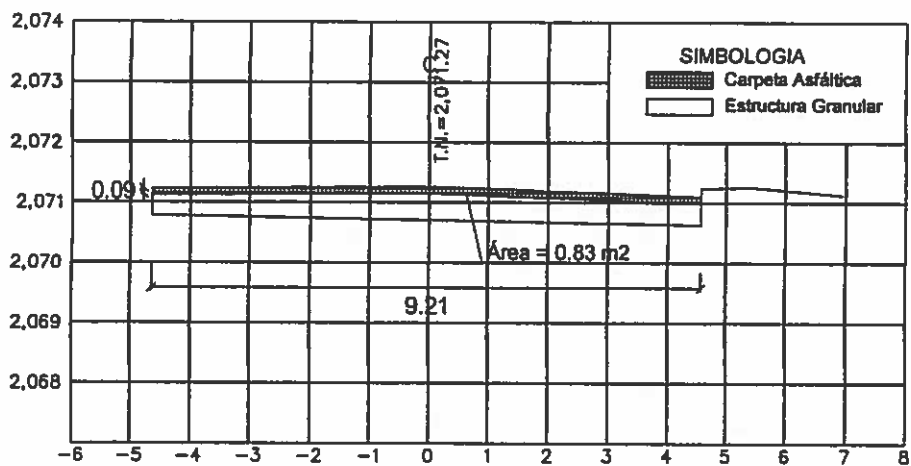


ESTACION 0+460.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

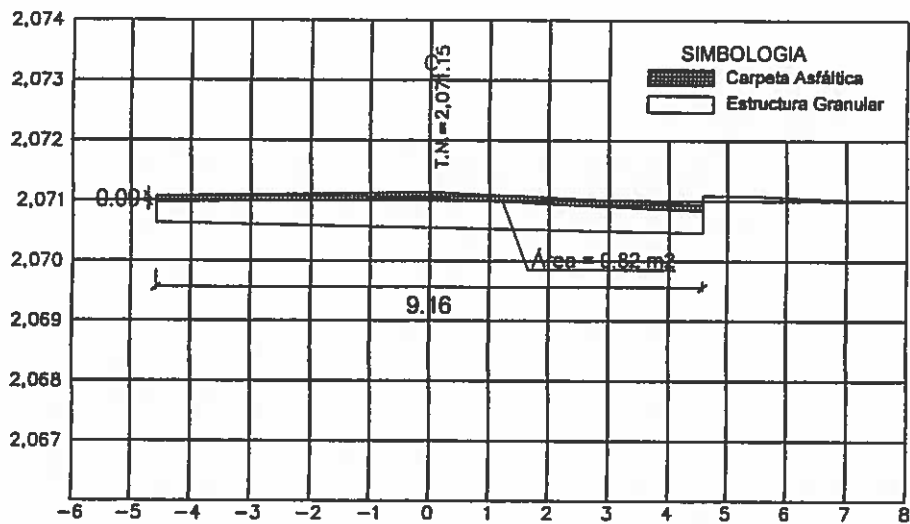
Handwritten signature or mark.



ESTACION 0+470.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



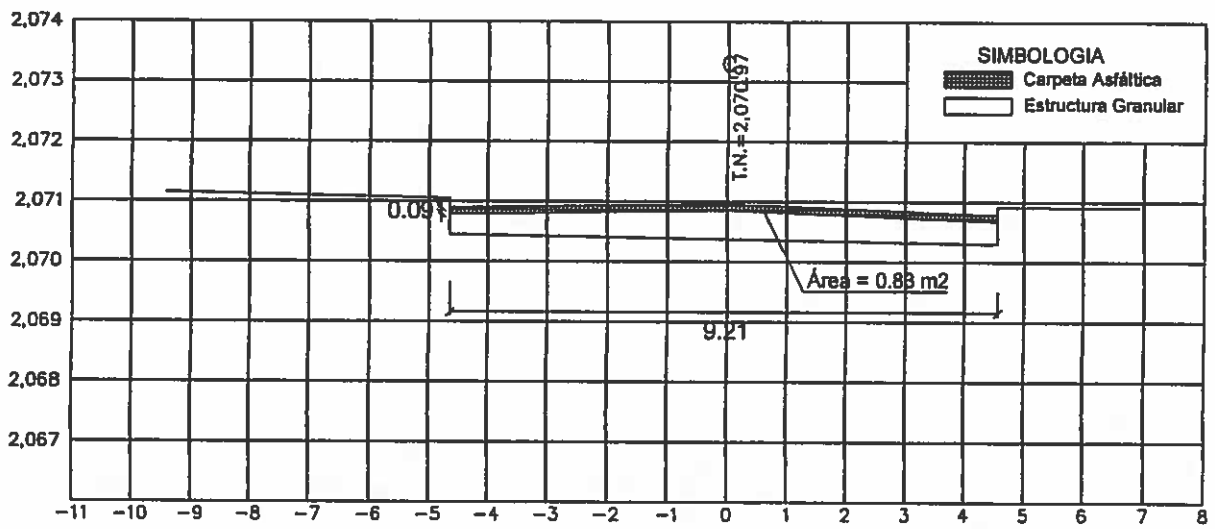
ESTACION 0+480.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



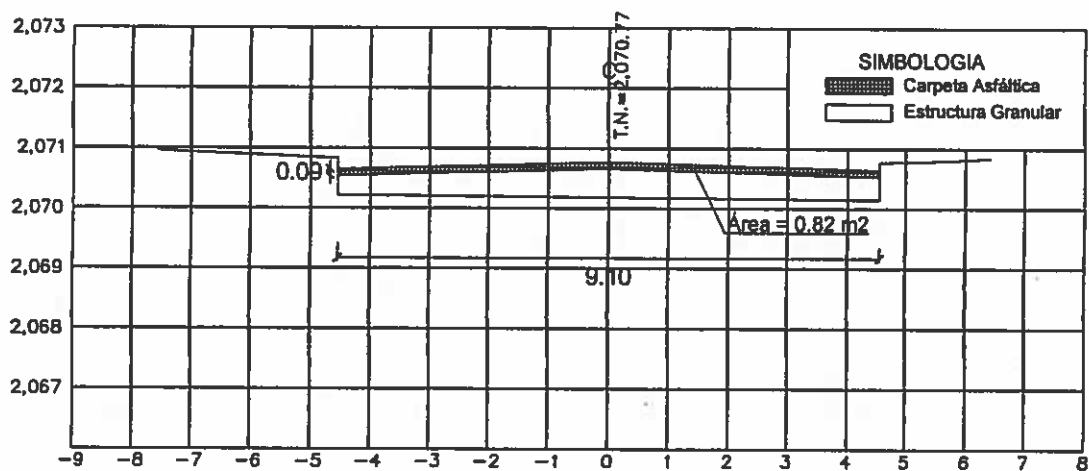
ESTACION 0+490.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

2

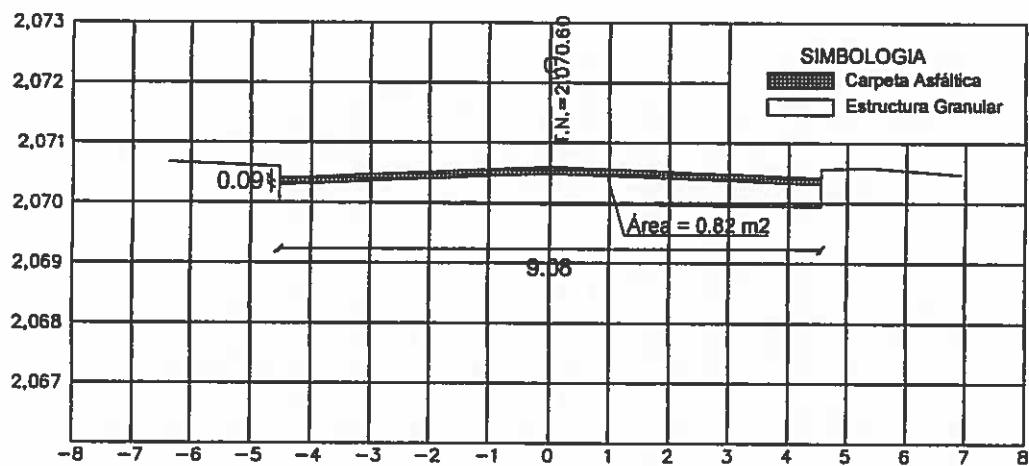
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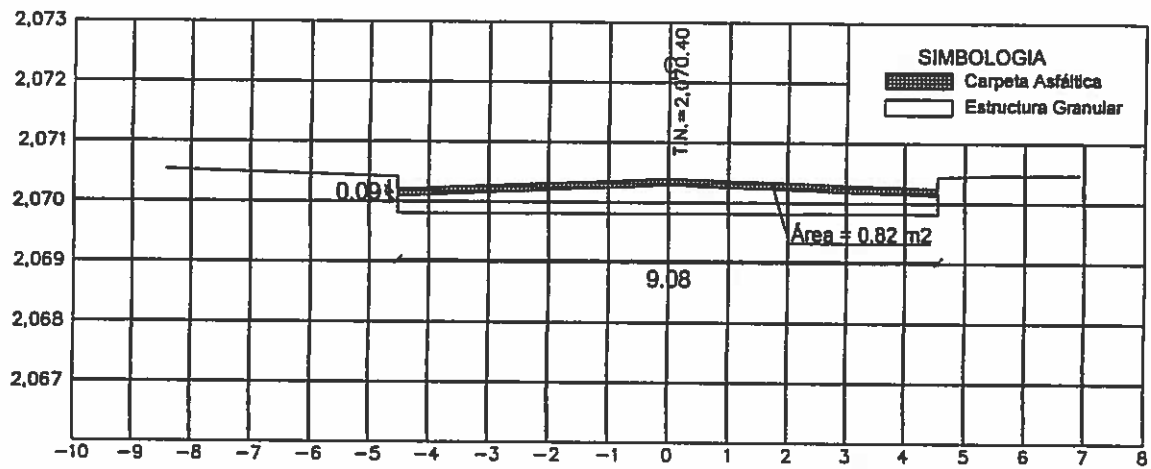
ESTACION 0+500.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



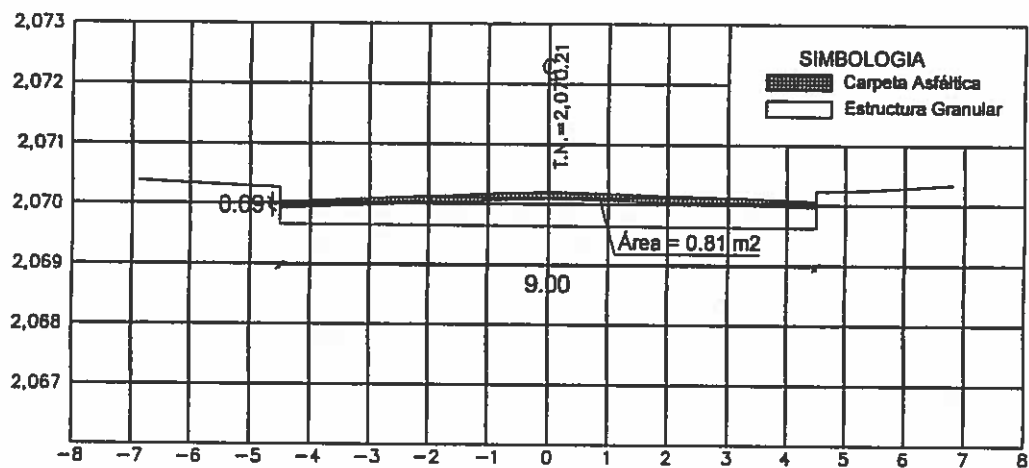
ESTACION 0+510.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



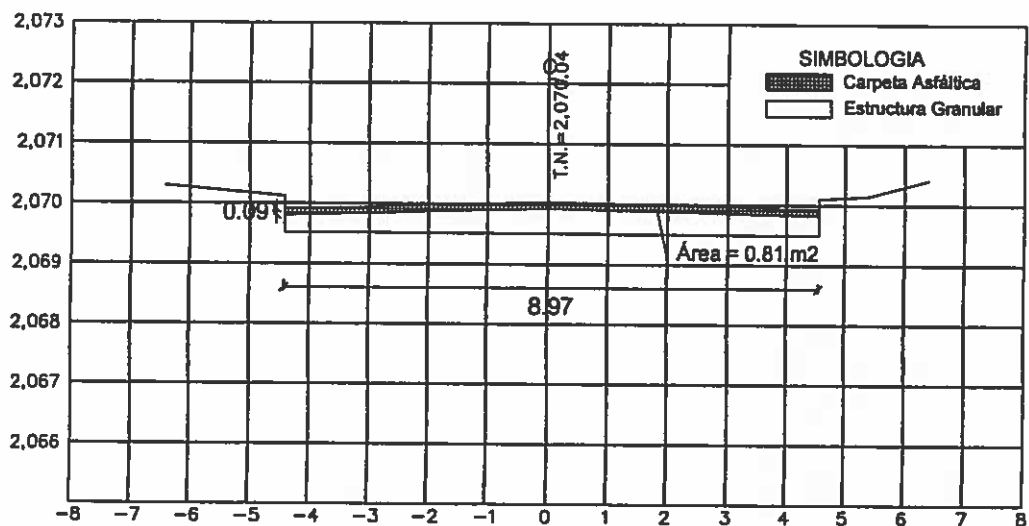
ESTACION 0+520.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+530.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

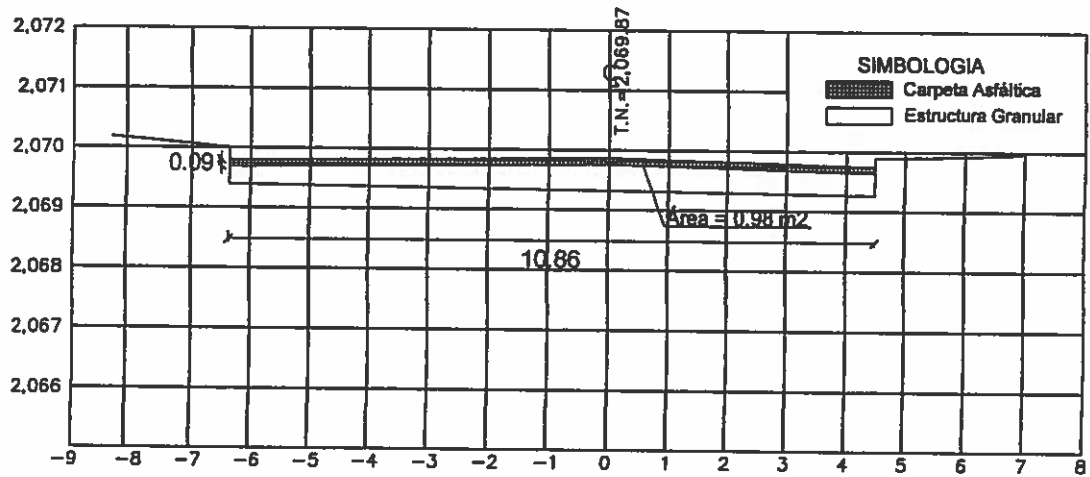


ESTACION 0+540.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

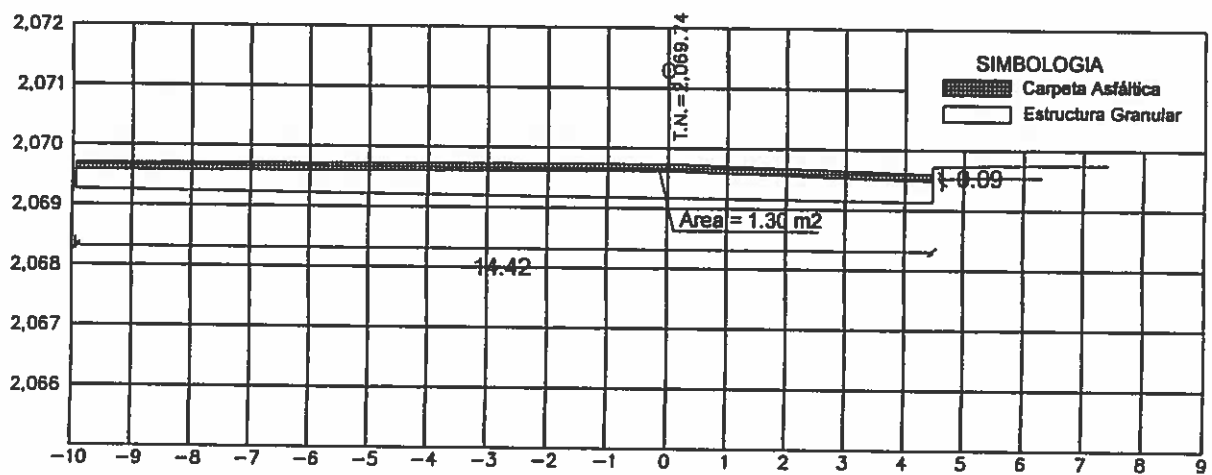


ESTACION 0+550.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

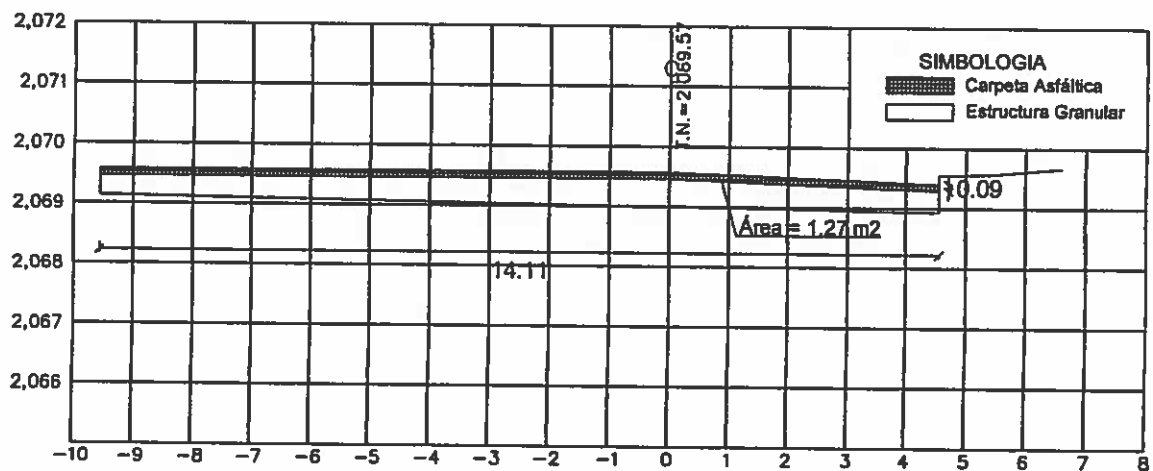
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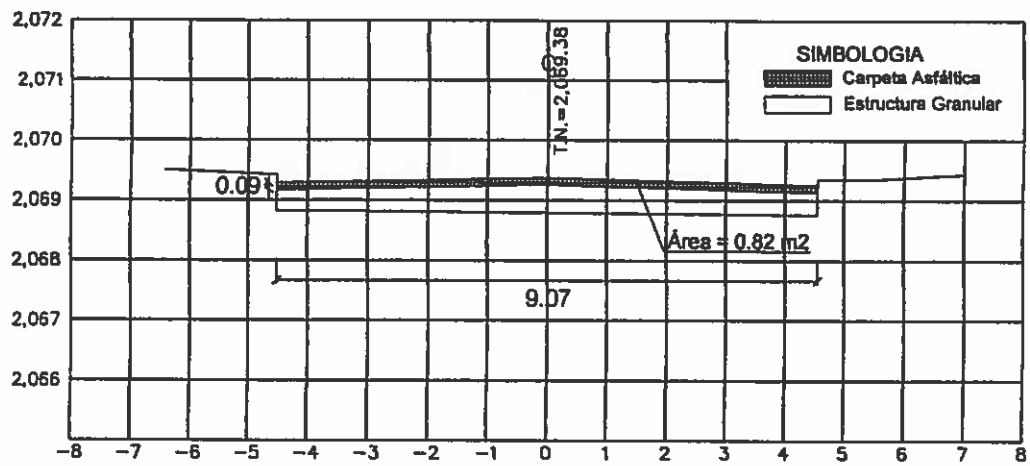
ESTACION 0+560.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



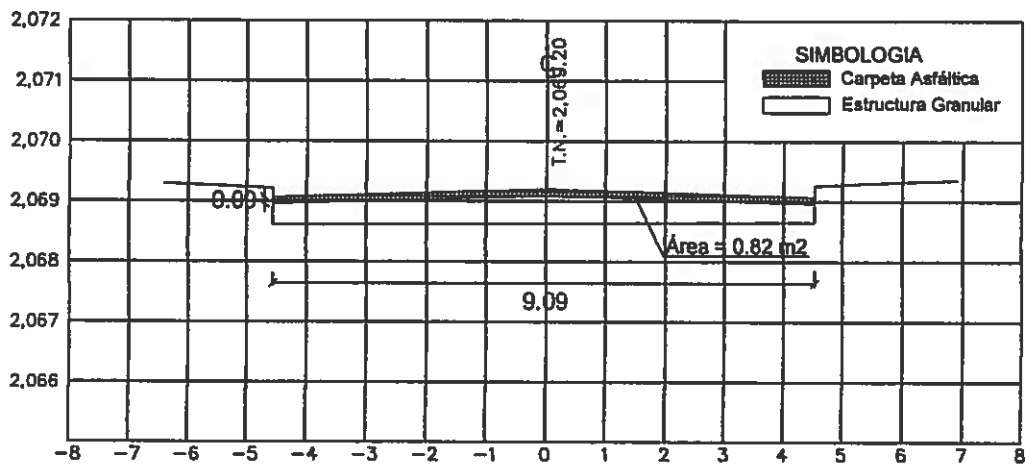
ESTACION 0+570.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



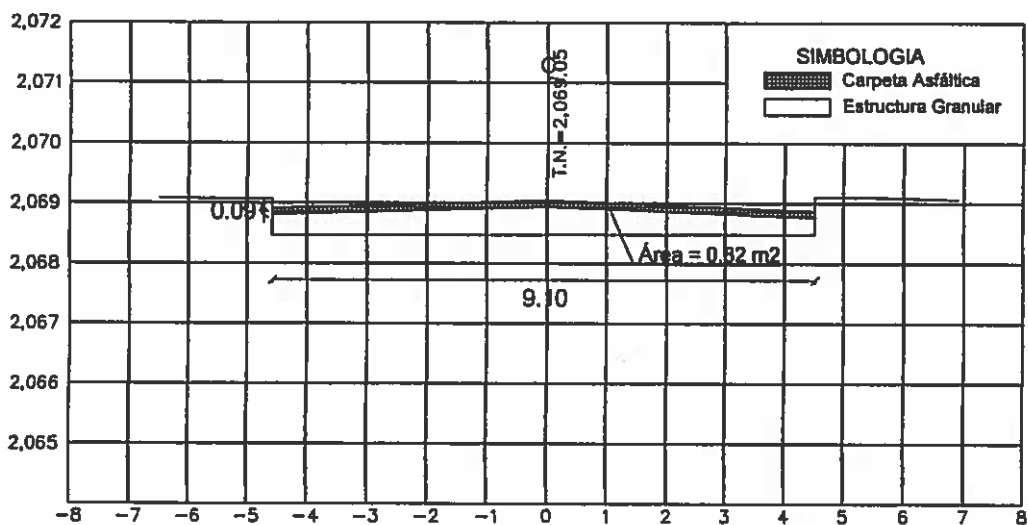
ESTACION 0+580.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



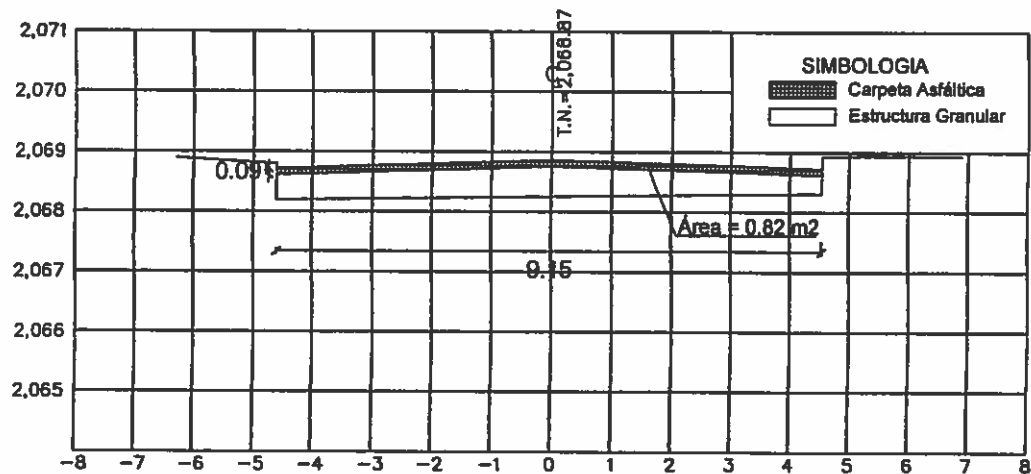
ESTACION 0+590.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



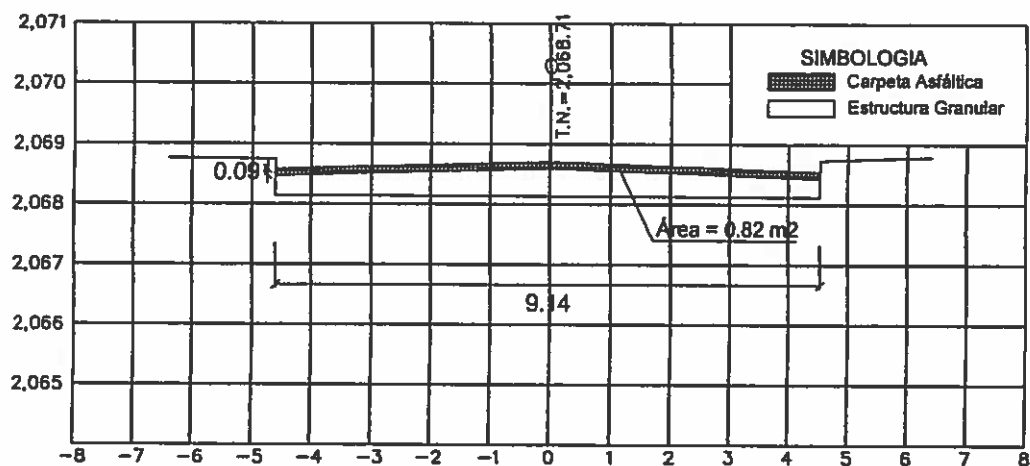
ESTACION 0+600.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



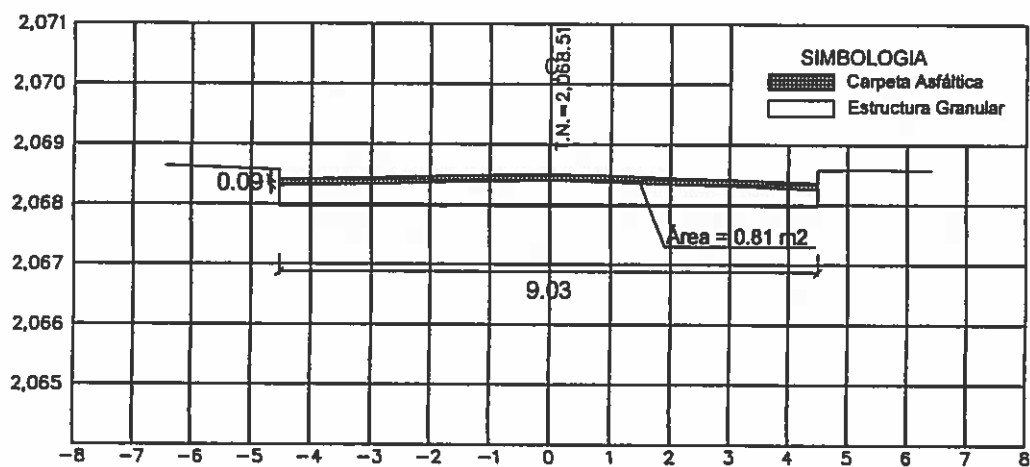
ESTACION 0+610.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+620.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



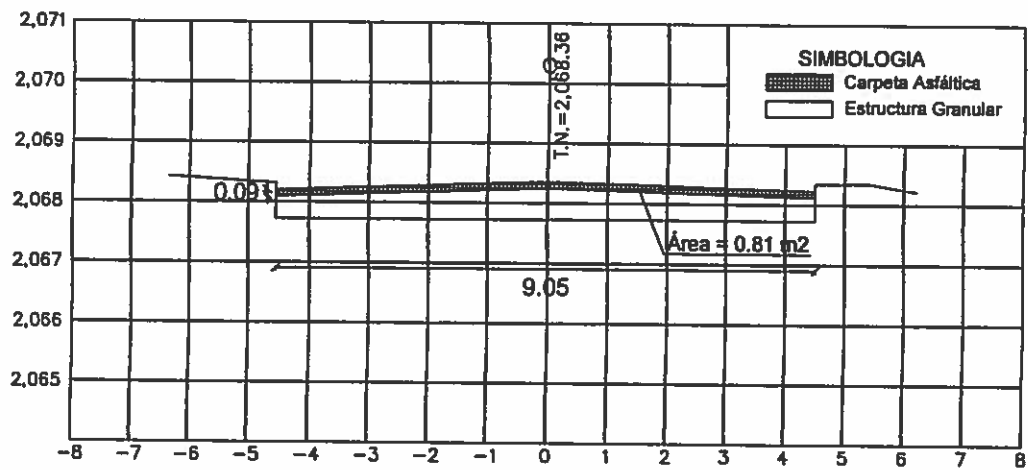
ESTACION 0+630.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



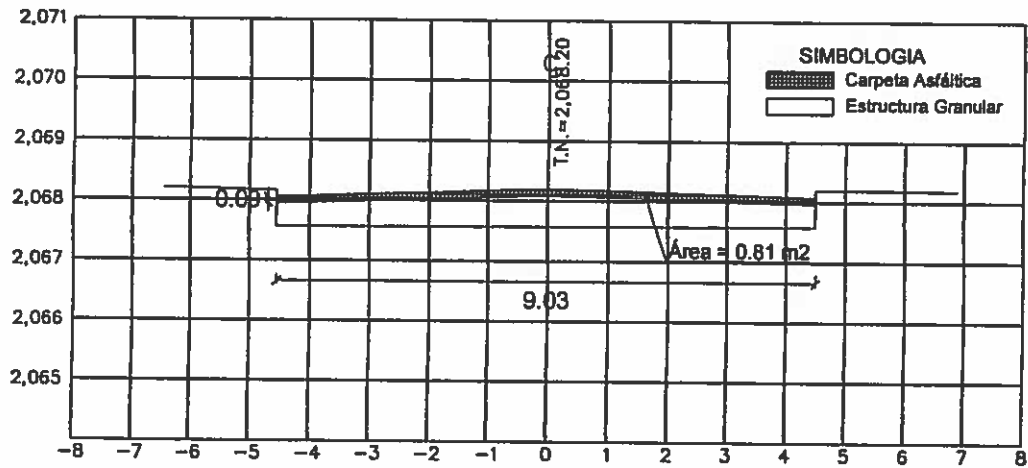
ESTACION 0+640.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

f

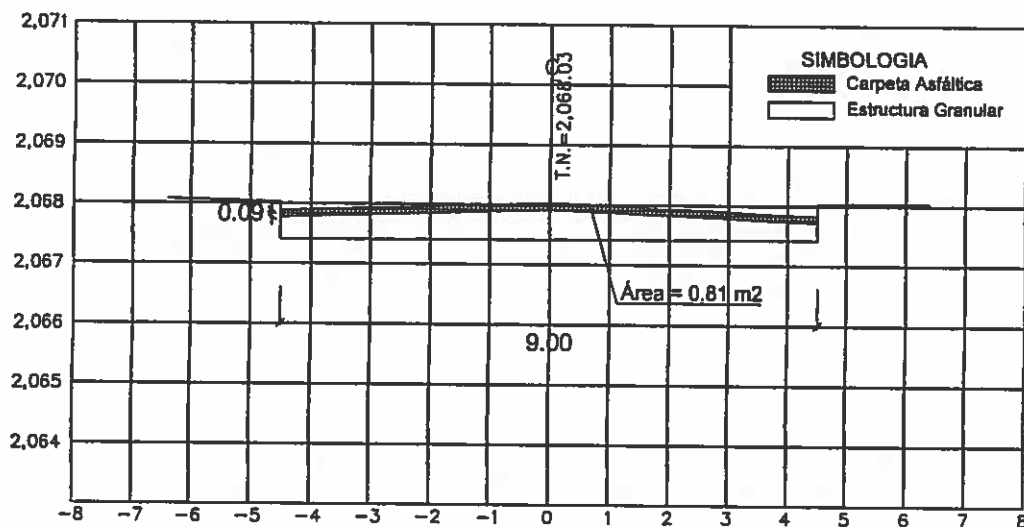
f



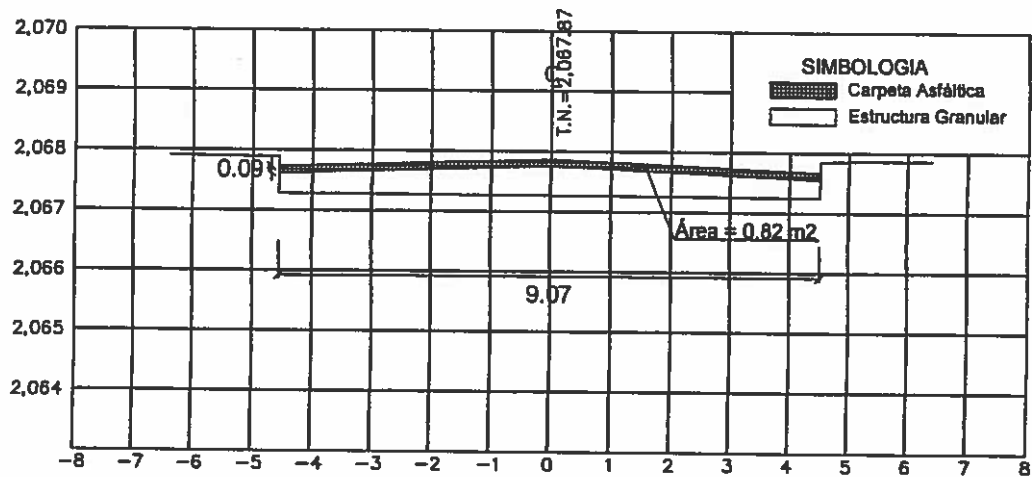
ESTACION 0+650.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



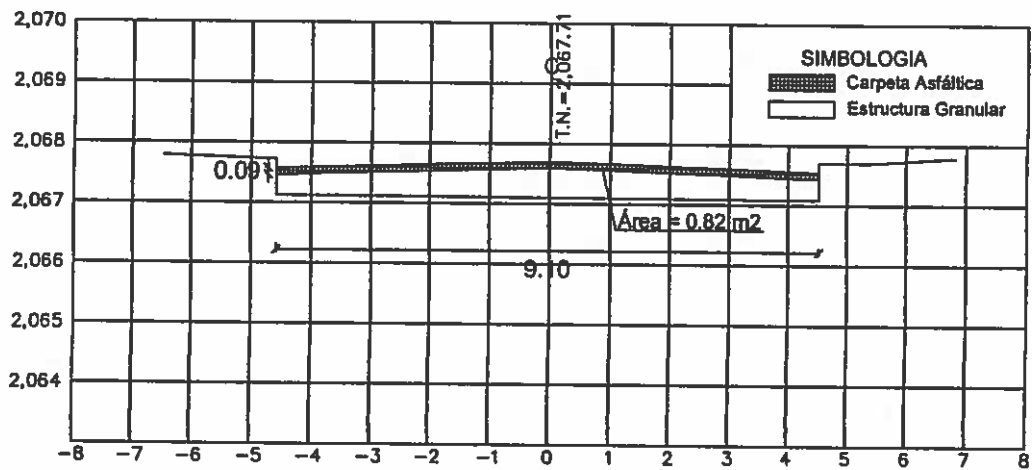
ESTACION 0+660.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



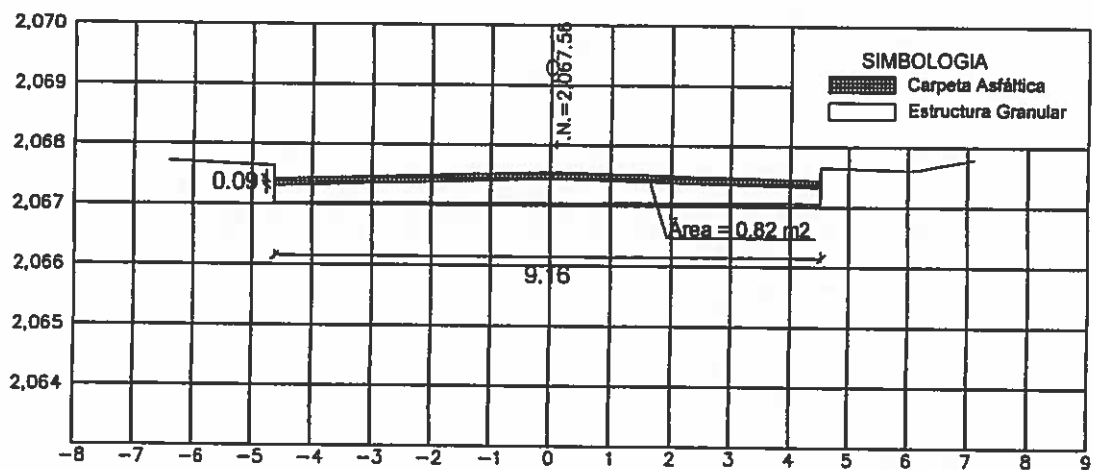
ESTACION 0+670.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+680.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



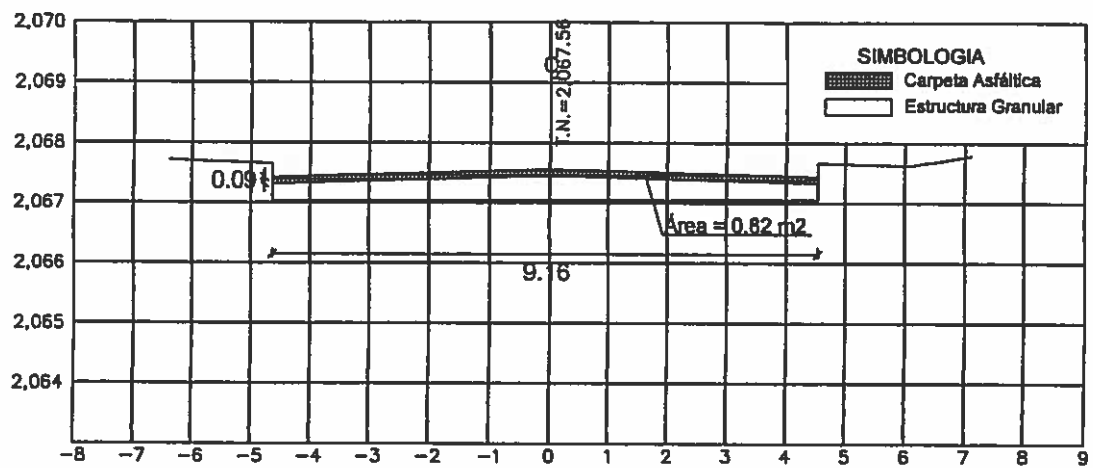
ESTACION 0+690.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



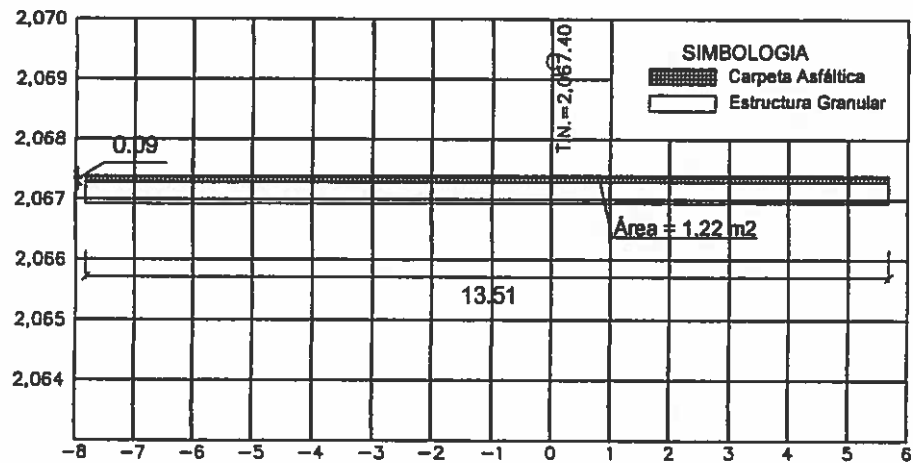
ESTACION 0+700.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

f

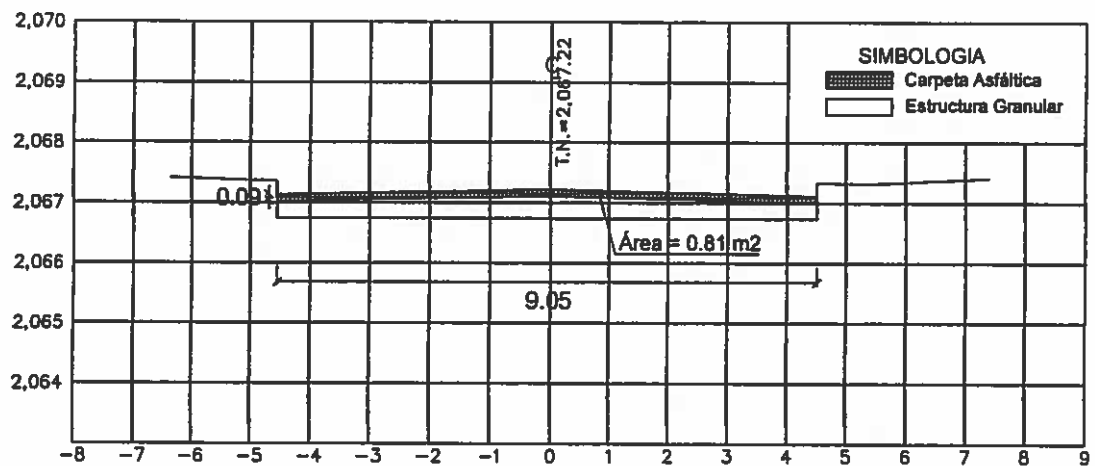
[Signature]



ESTACION 0+700.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



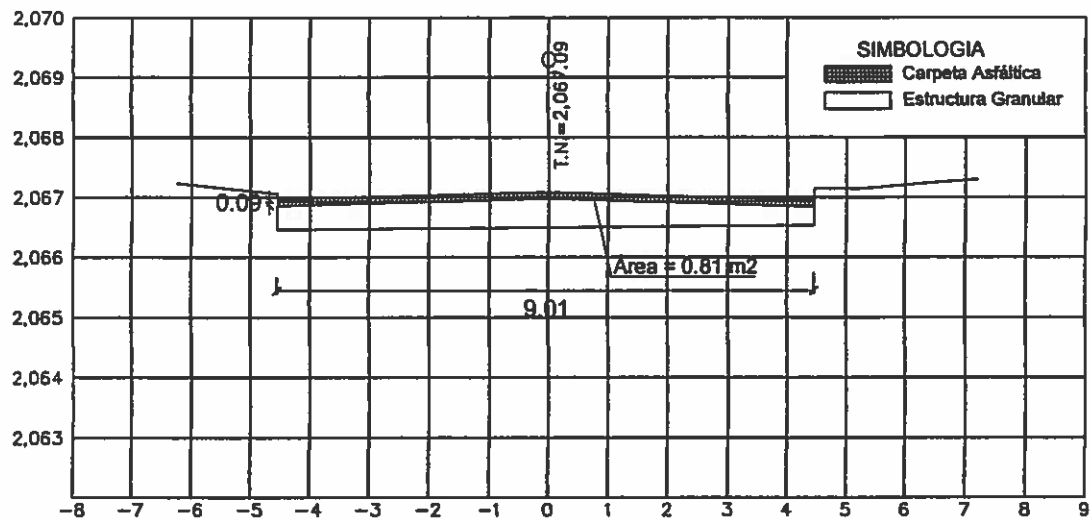
ESTACION 0+710.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



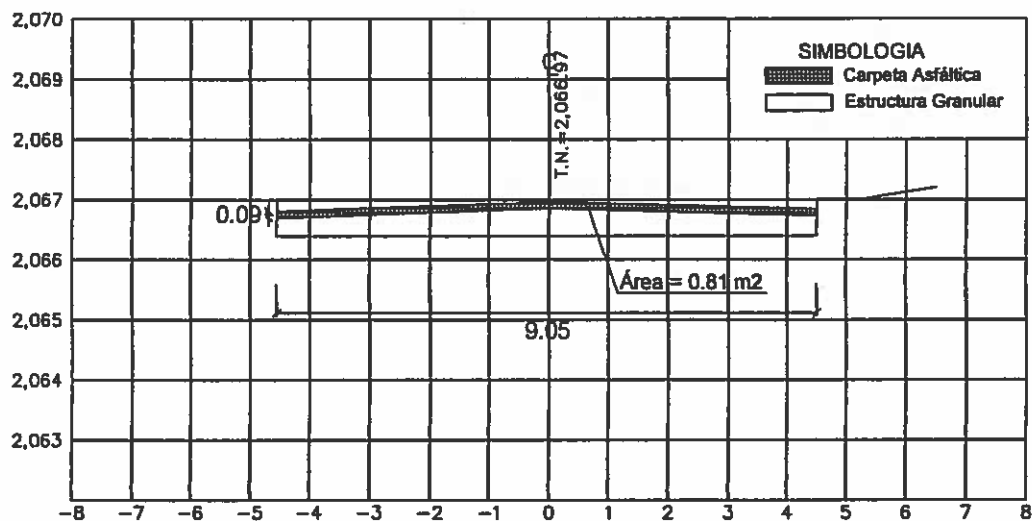
ESTACION 0+720.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

R

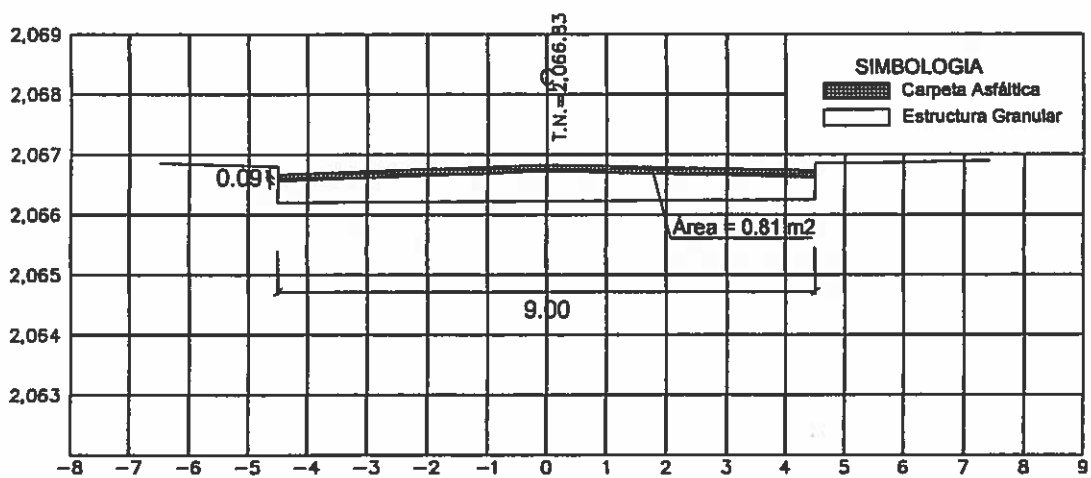
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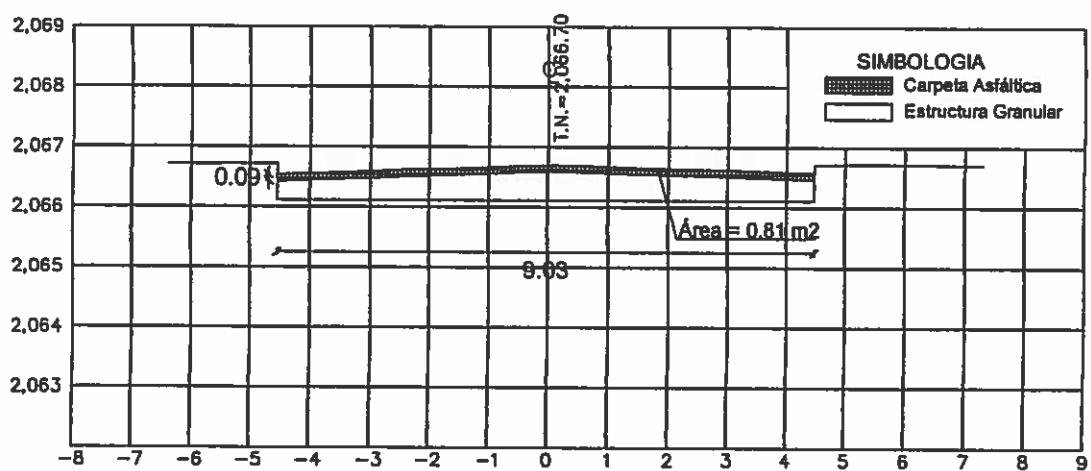
ESTACION 0+730.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



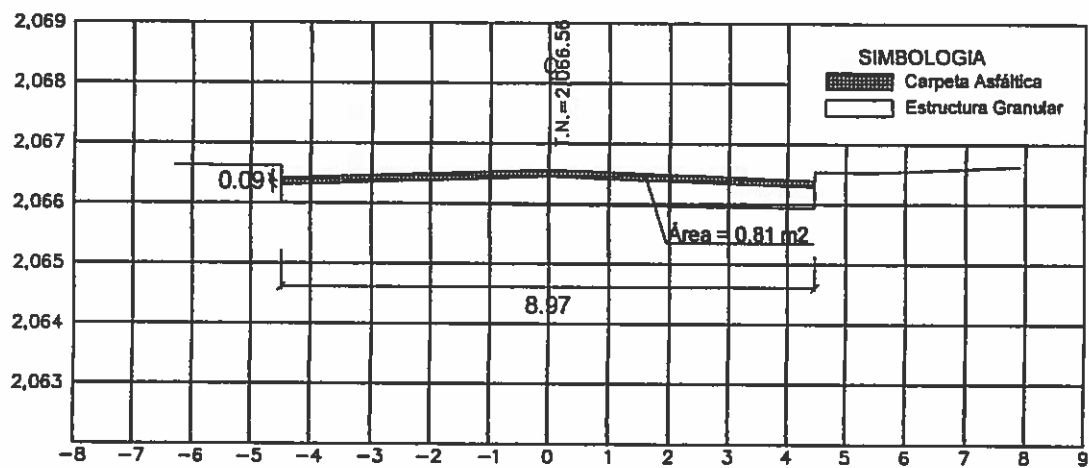
ESTACION 0+740.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



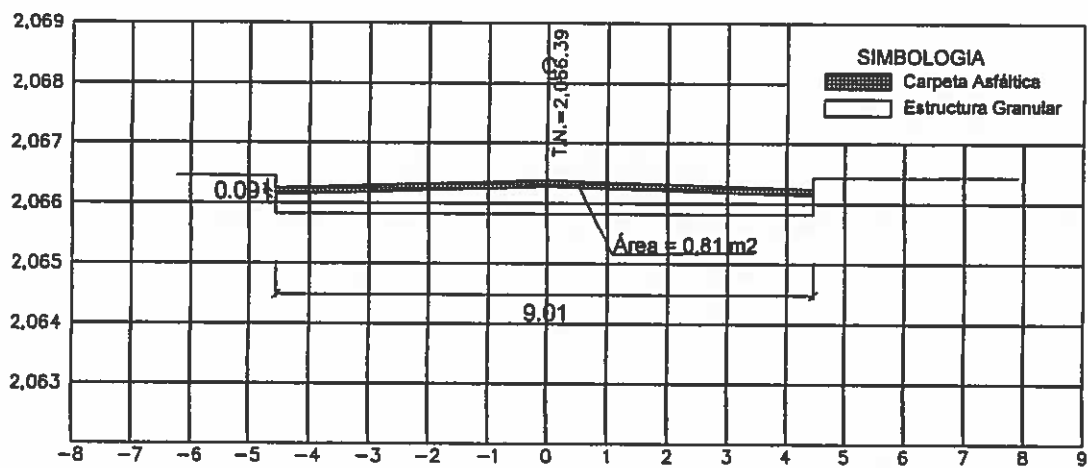
ESTACION 0+750.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+760.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

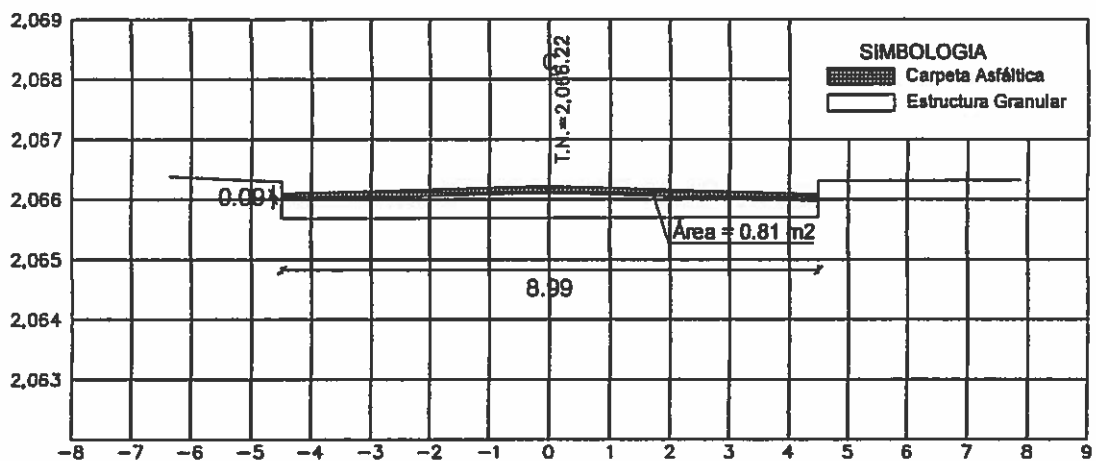


ESTACION 0+770.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

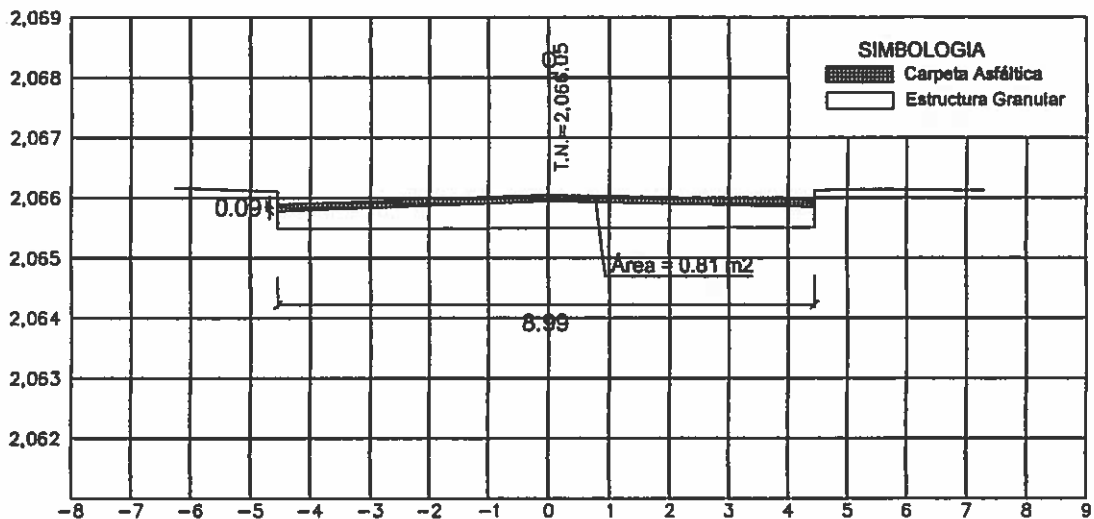


ESTACION 0+780.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

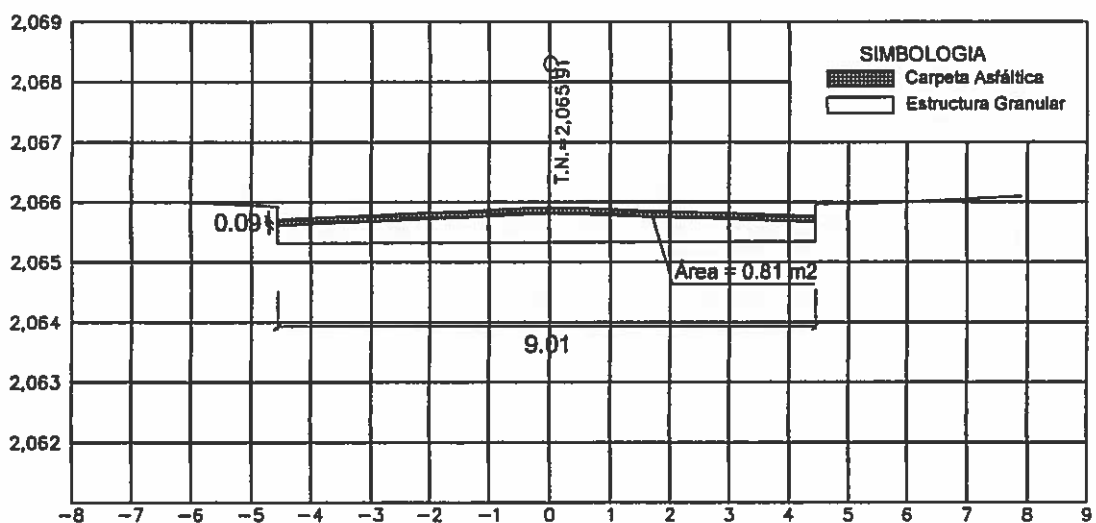
4



ESTACION 0+790.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



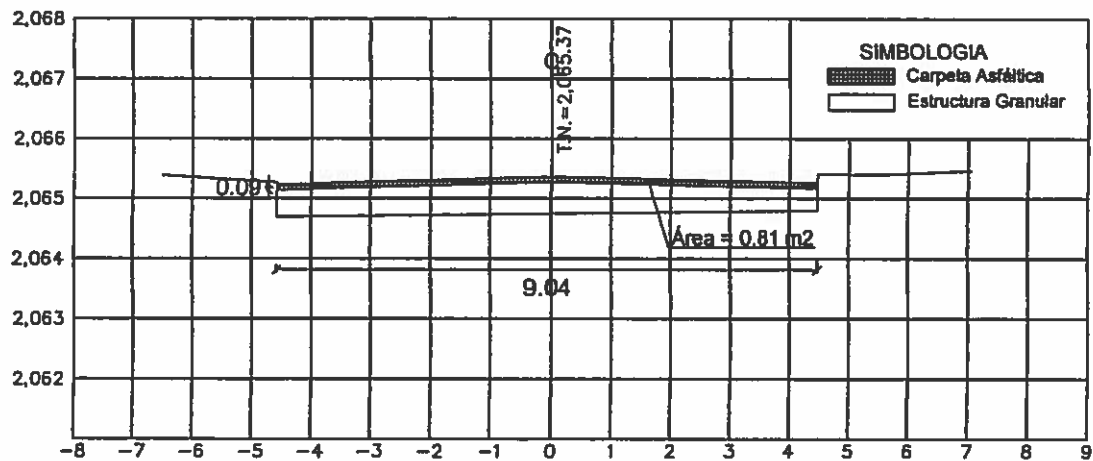
ESTACION 0+800.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+810.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

4

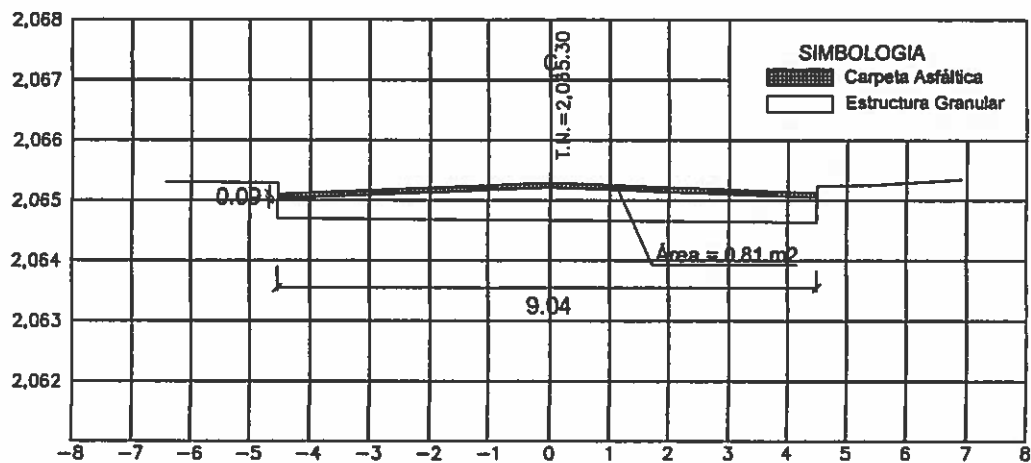
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ESTACION 0+850.00

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100

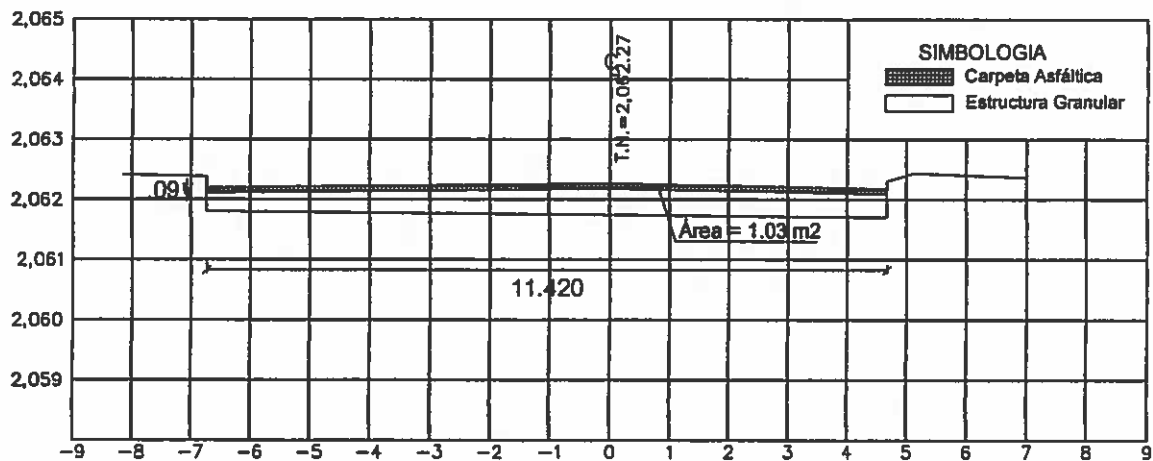


ESTACION 0+860.00

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100

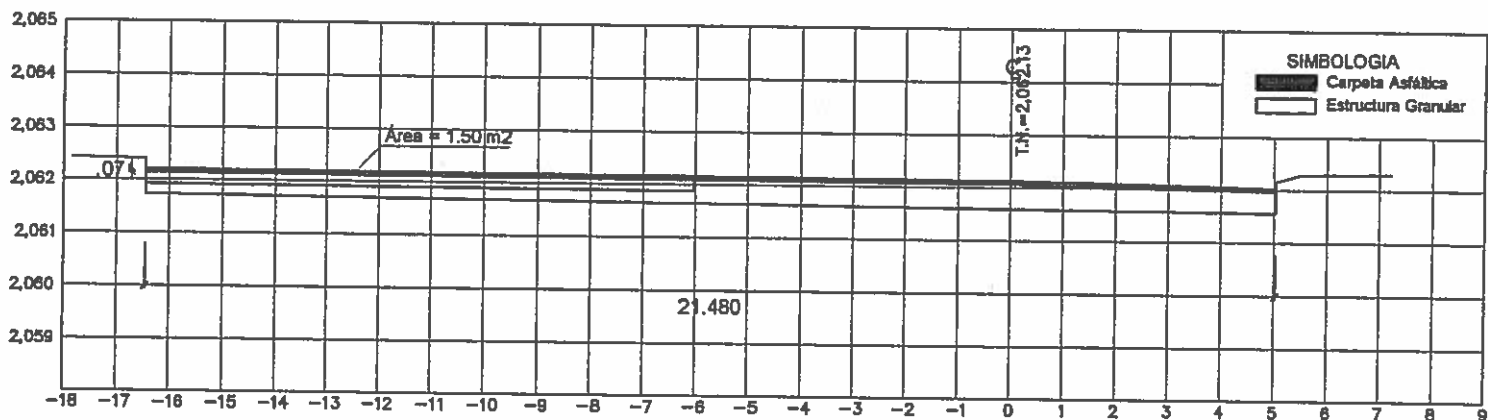
AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLÓN



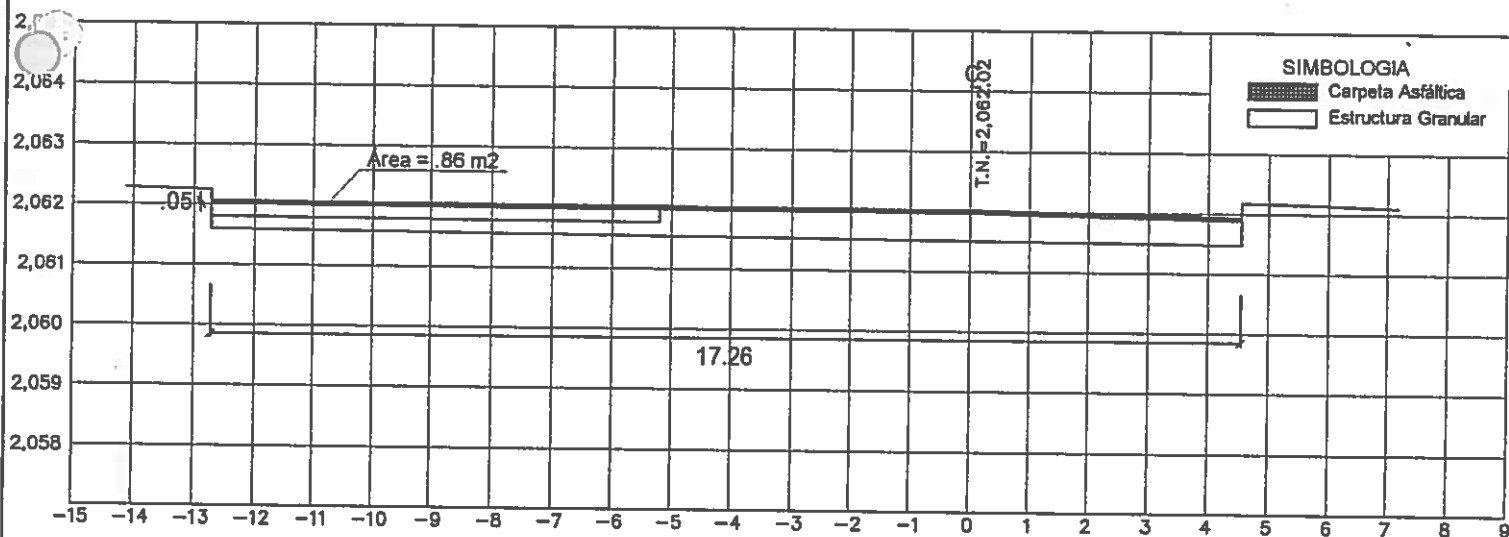
ESTACION 1+107.00

ESCALA HORIZONTAL 1 : 100

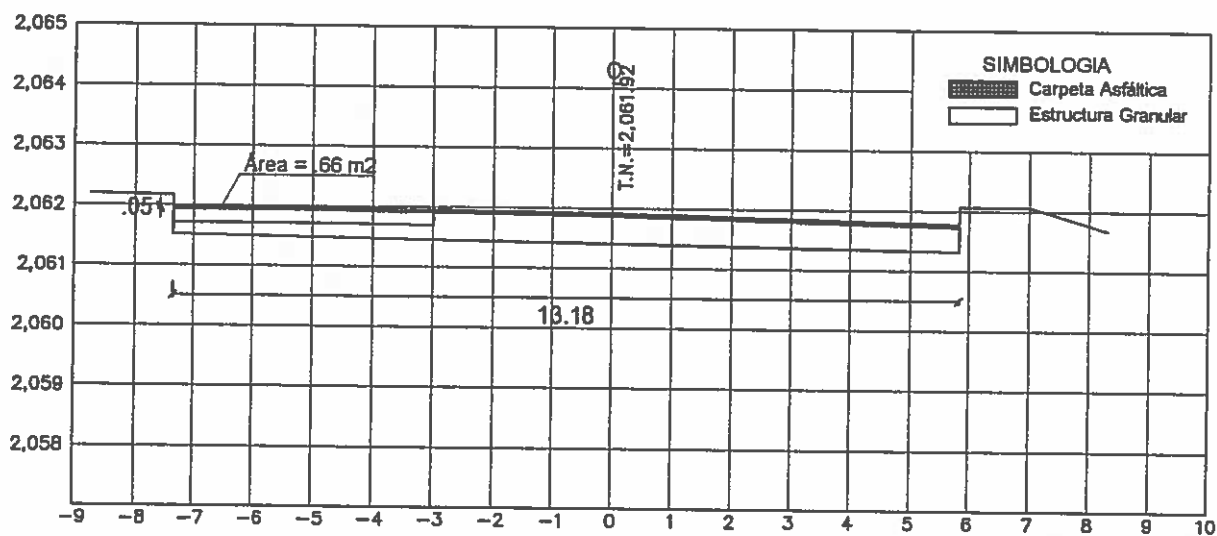
ESCALA VERTICAL 1 : 100



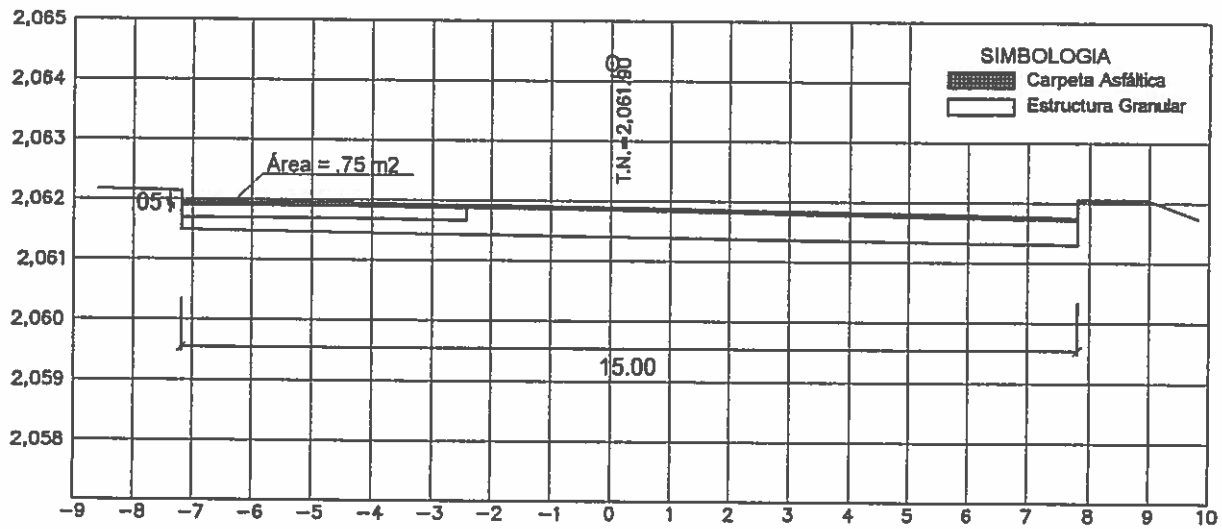
ESTACION 1+114.70
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



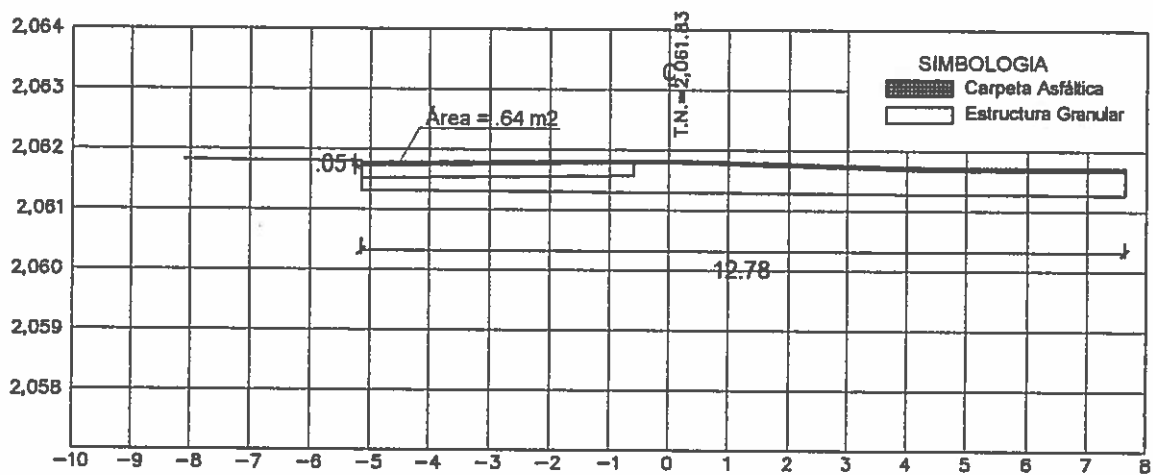
ESTACION 1+120.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



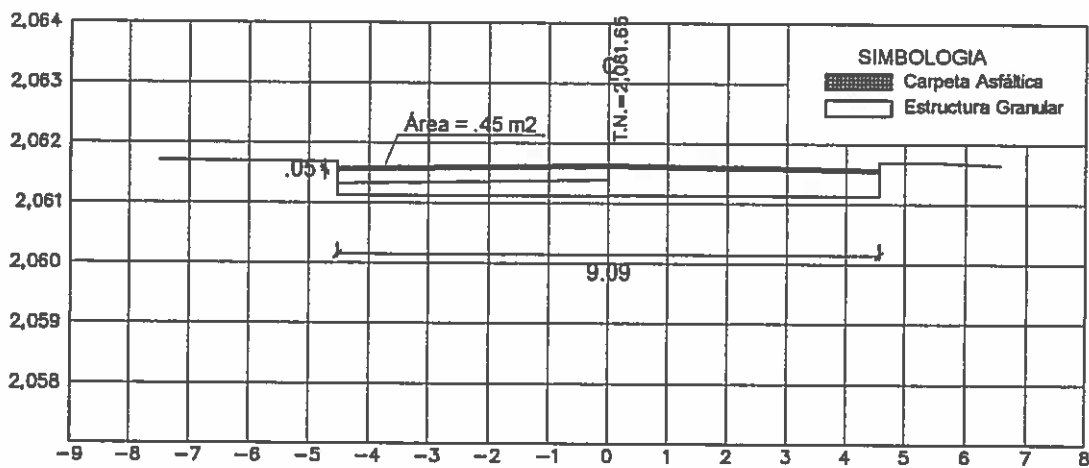
ESTACION 1+130.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



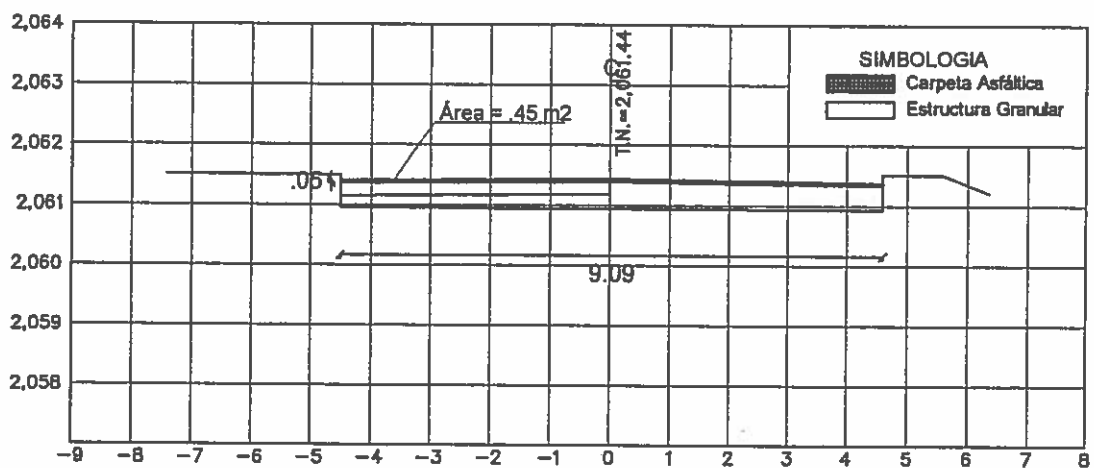
ESTACION 1+132.40
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



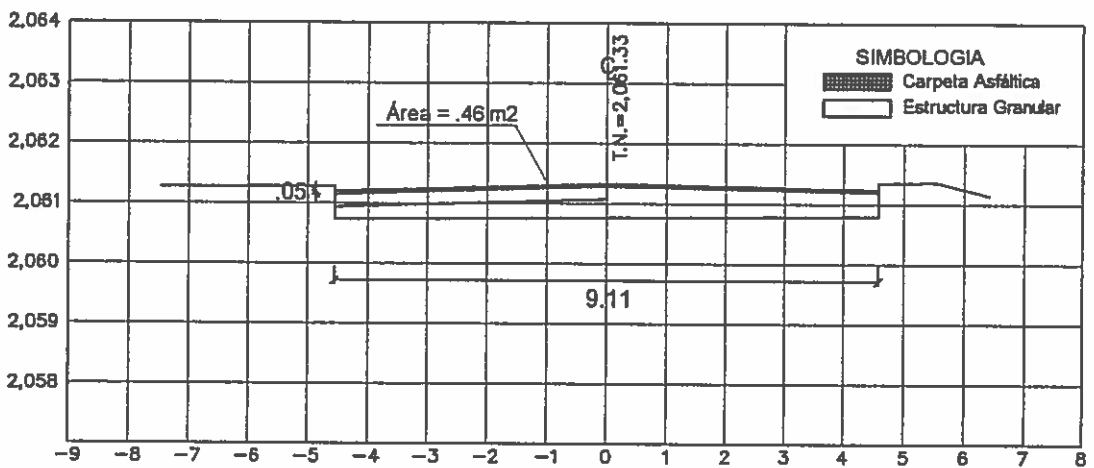
ESTACION 1+140.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



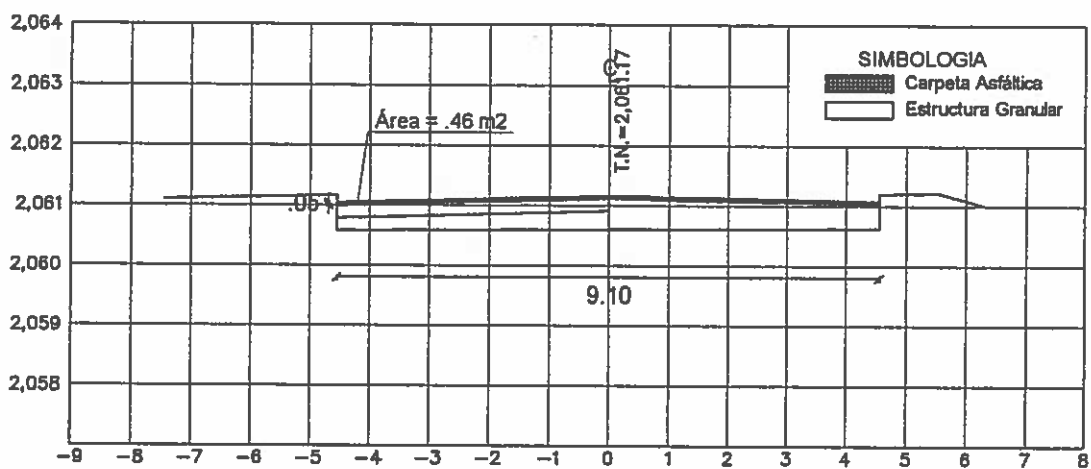
ESTACION 1+150.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



ESTACION 1+160.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



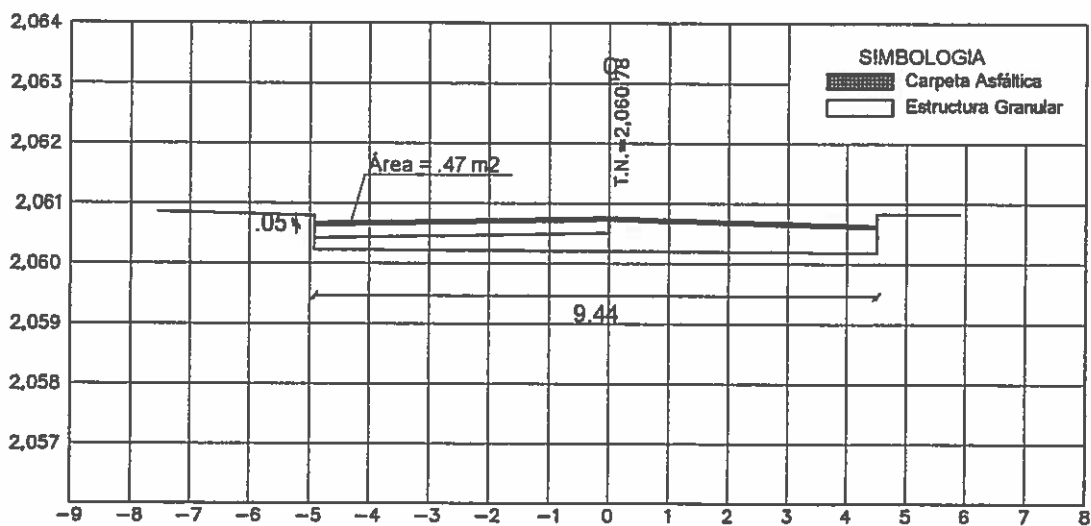
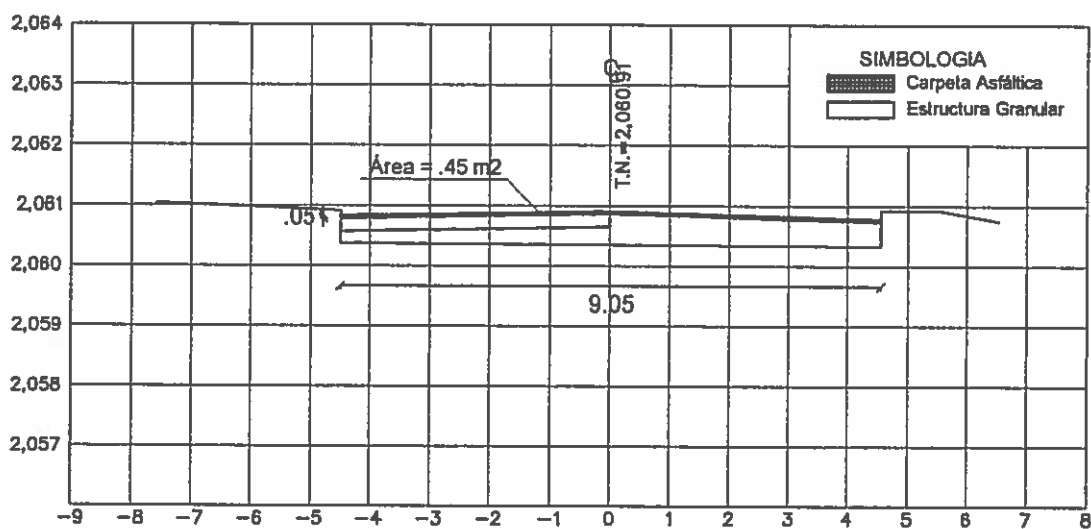
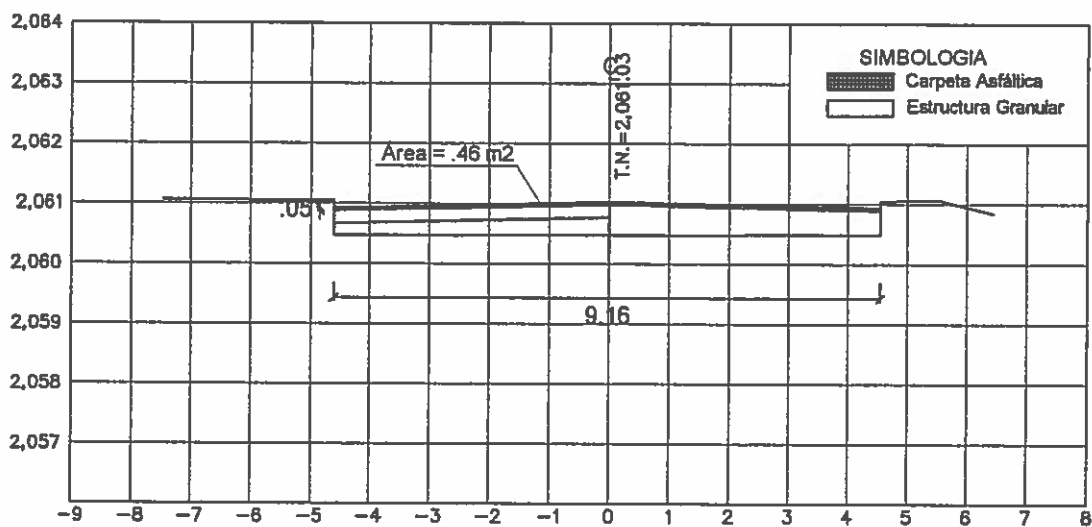
ESTACION 1+170.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

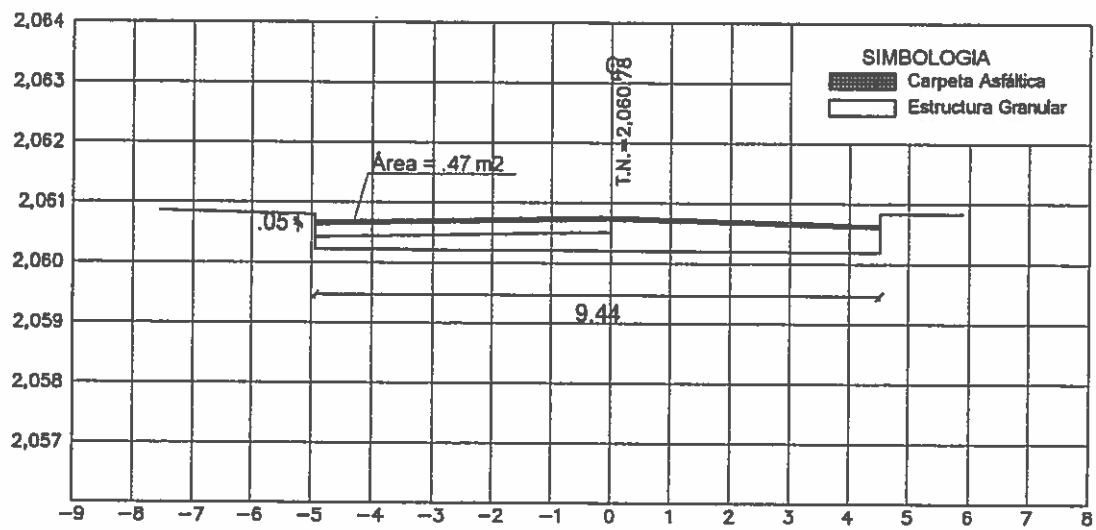


ESTACION 1+180.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

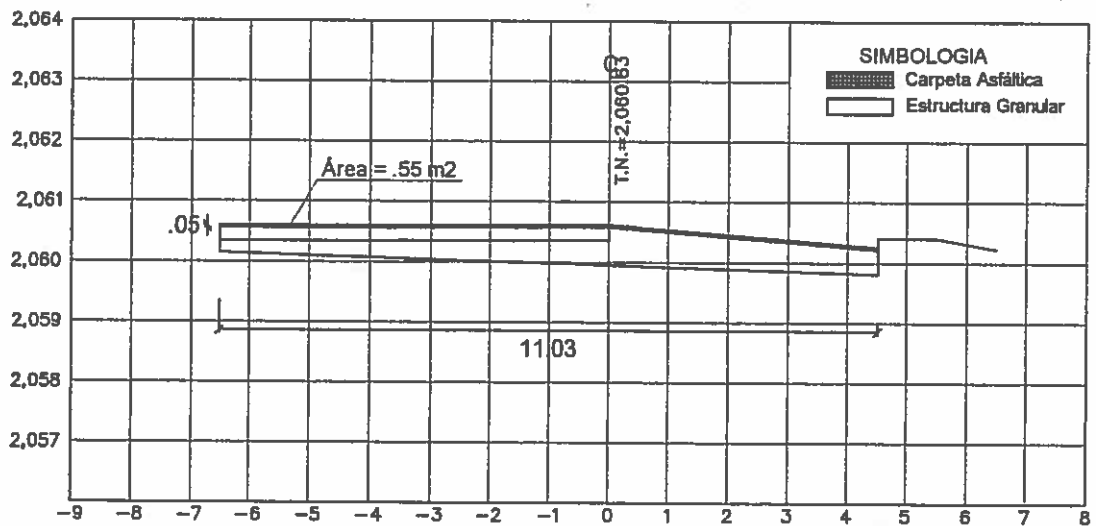
Handwritten signature

Handwritten signature

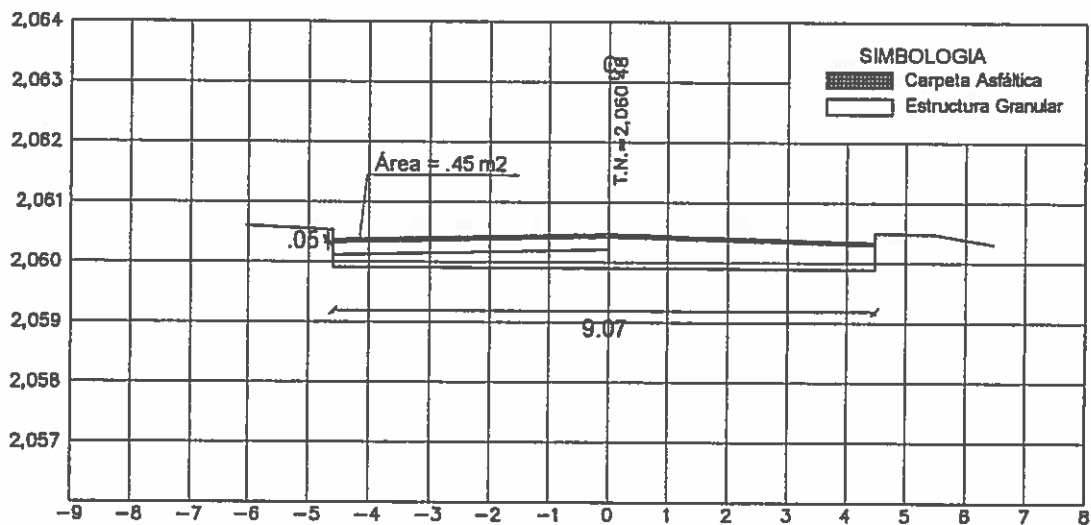




ESTACION 1+210.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



ESTACION 1+220.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

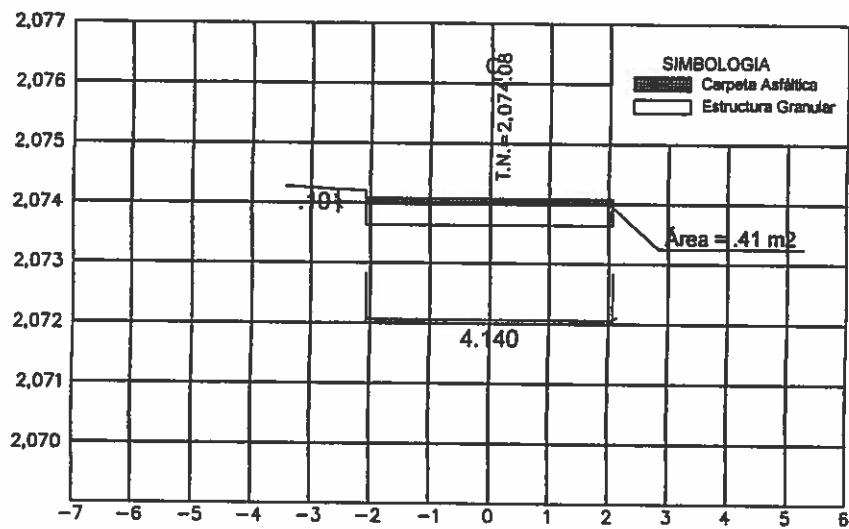


ESTACION 1+230.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

4

Handwritten signature or mark.

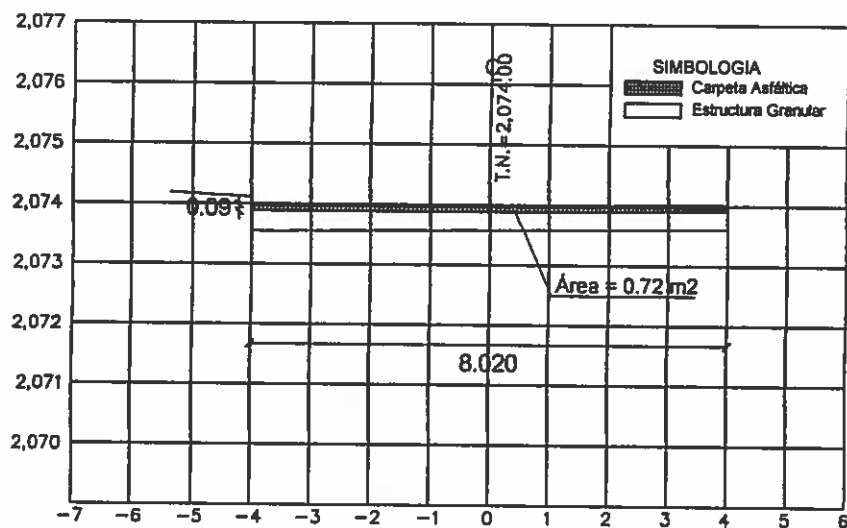
C/ SIN NOMBRE DESDE AV. EMILIANO ORTEGA HASTA LOURDES



ESTACION 0+010.00

ESCALA HORIZONTAL 1 : 100

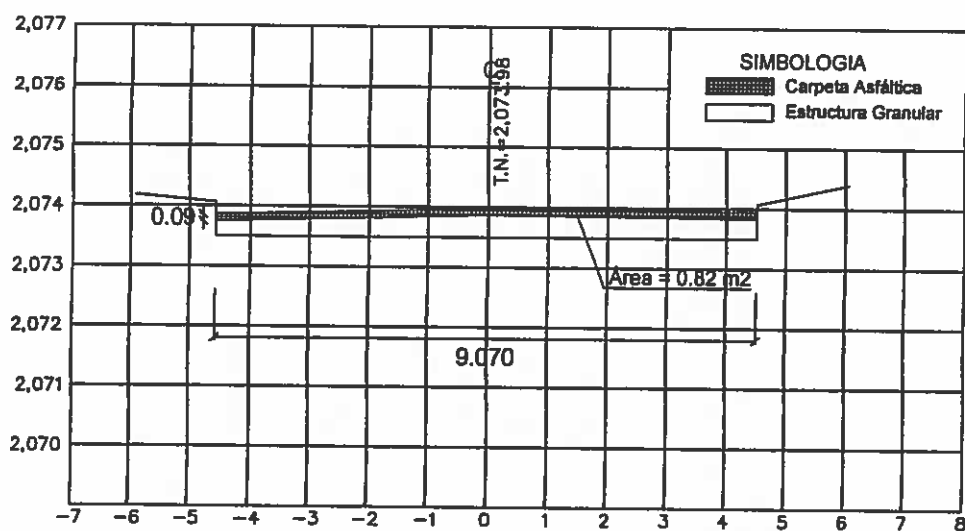
ESCALA VERTICAL 1 : 100



ESTACION 0+020.00

ESCALA HORIZONTAL 1 : 100

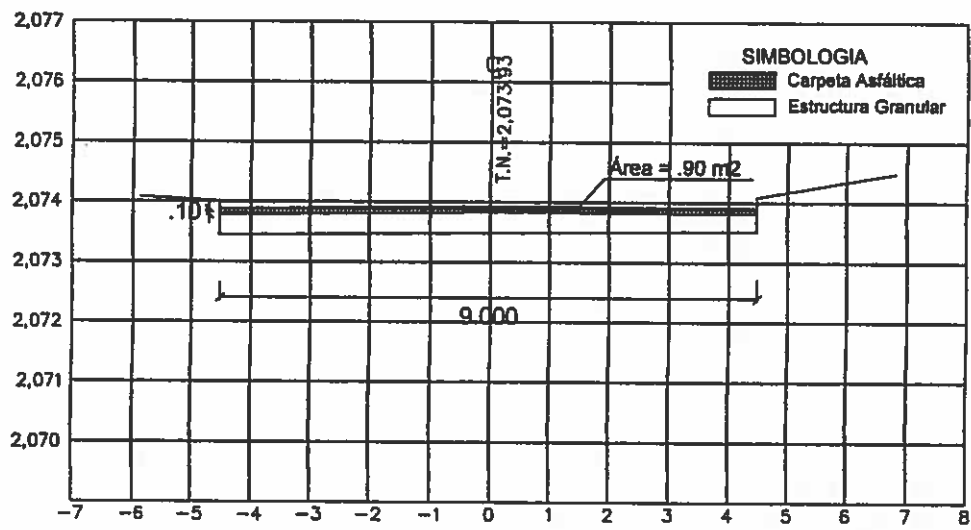
ESCALA VERTICAL 1 : 100



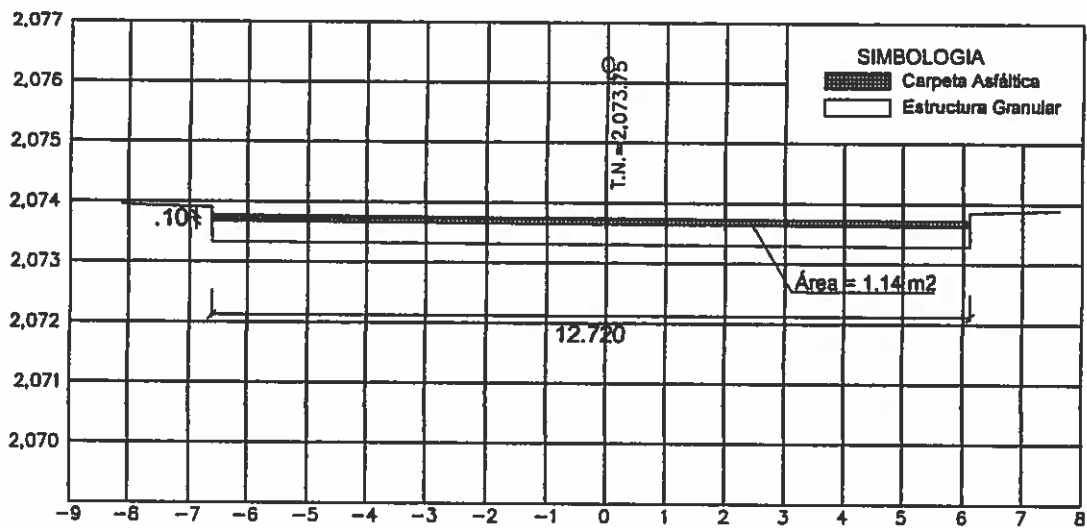
ESTACION 0+030.00

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100



ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

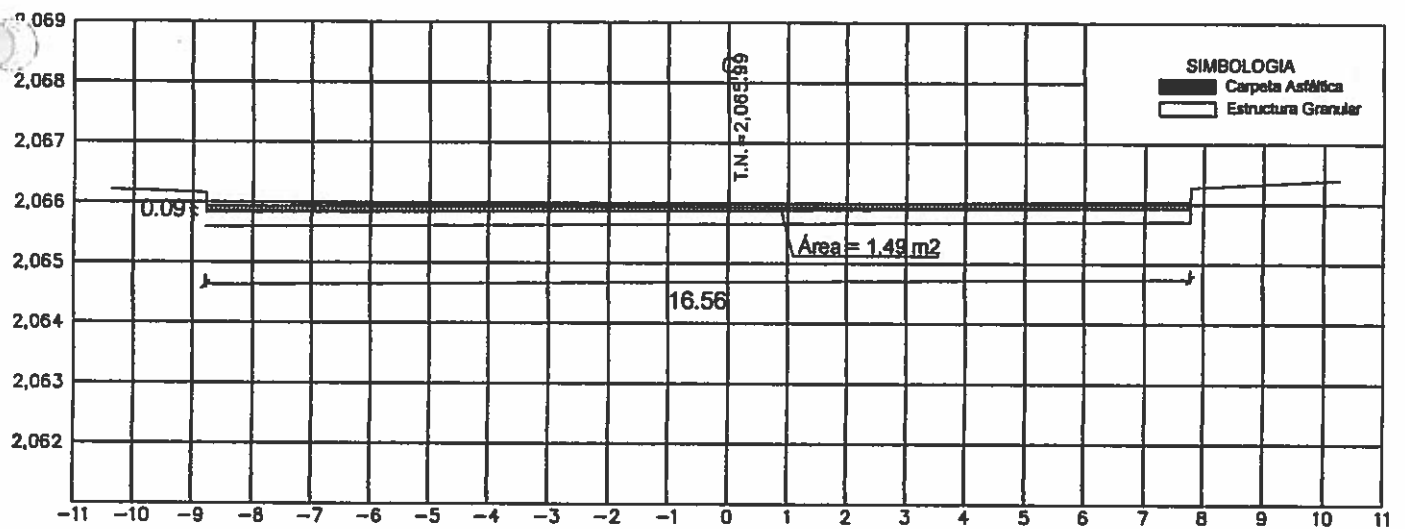


ESTACION 0+046.67
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

f

f

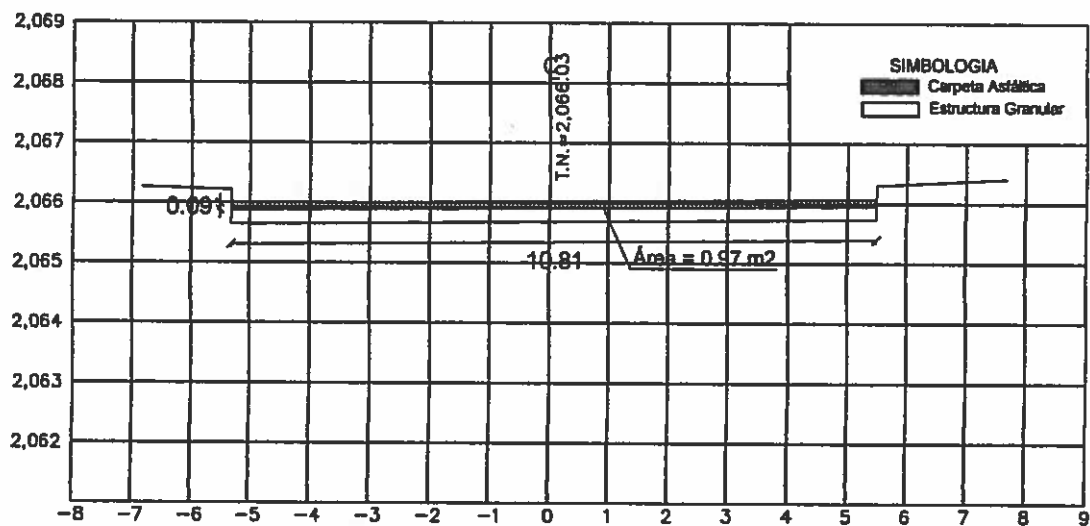
C/ MACARA DESDE ROCAFUERTE HASTA MIGUEL RIOFRIO



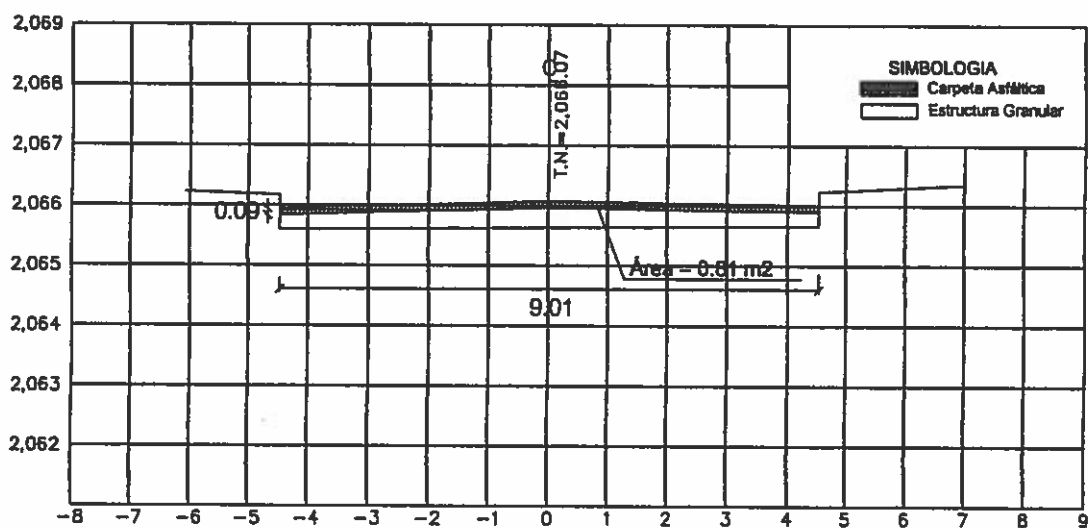
ESTACION 0+005.50
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

&

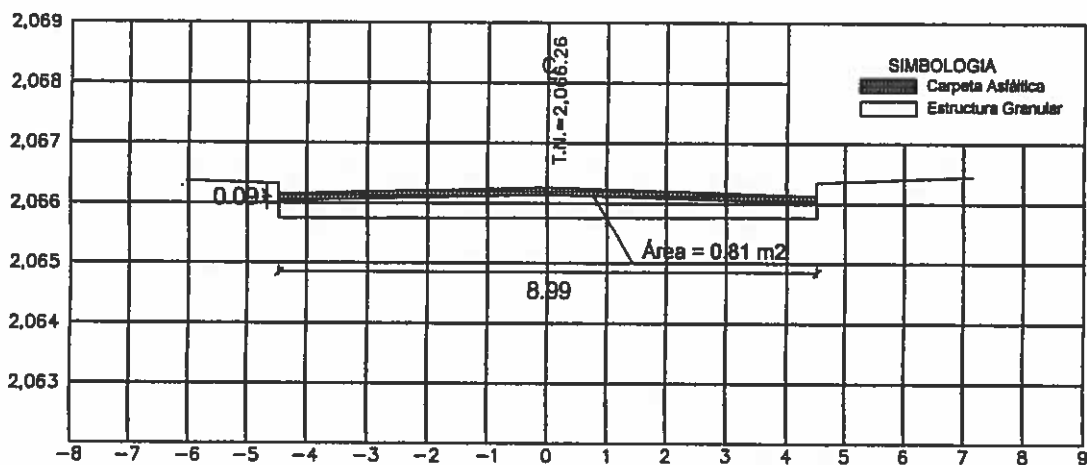
f



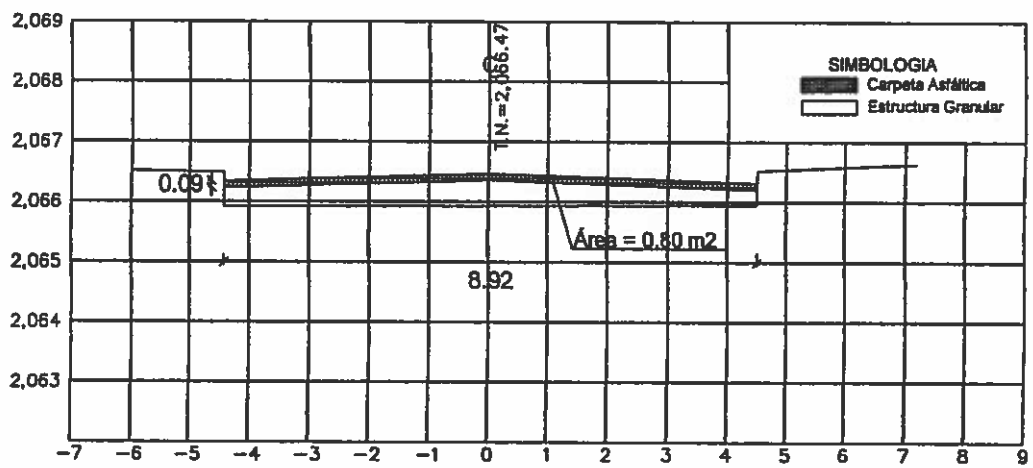
ESTACION 0+007.27
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+010.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



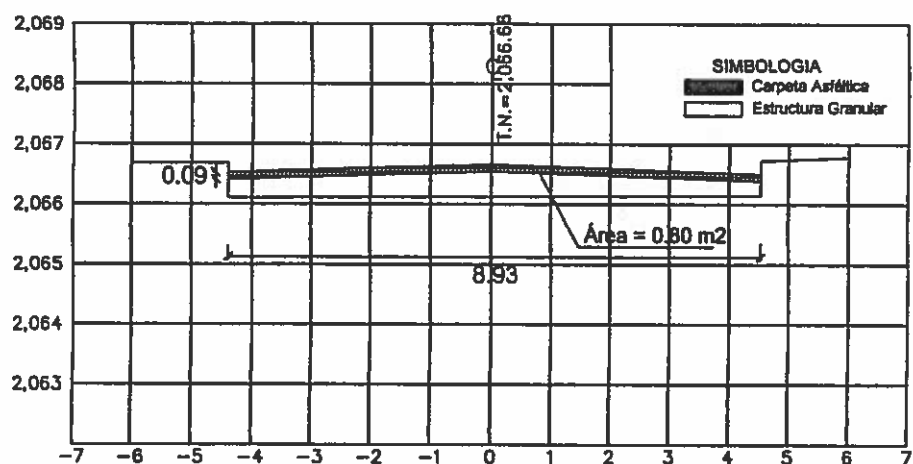
ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



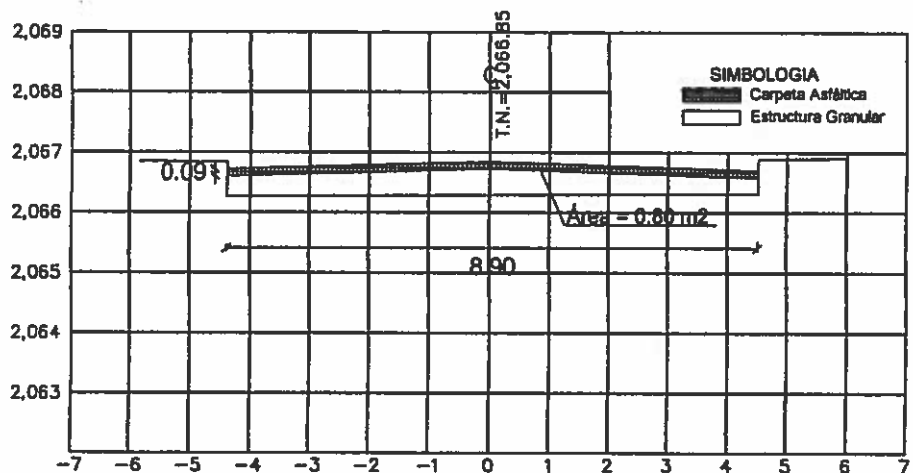
ESTACION 0+030.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

P

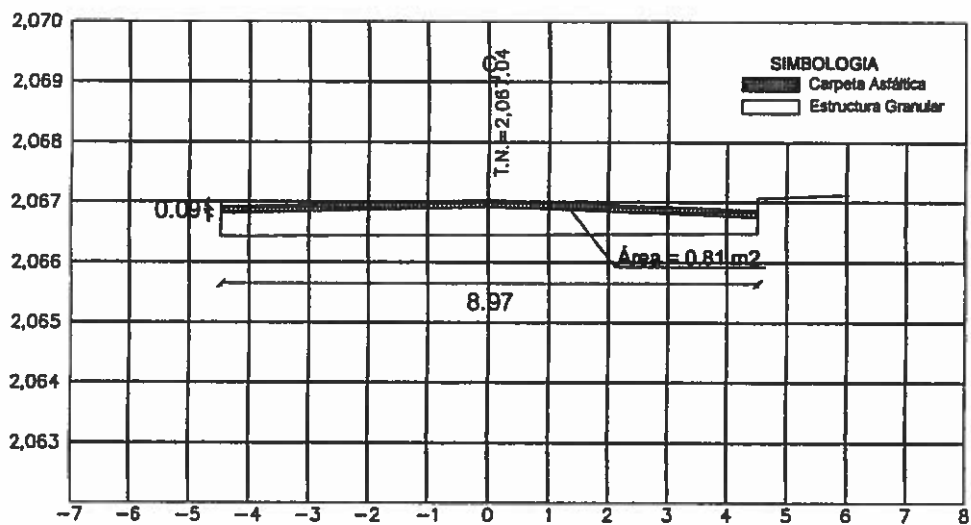
J



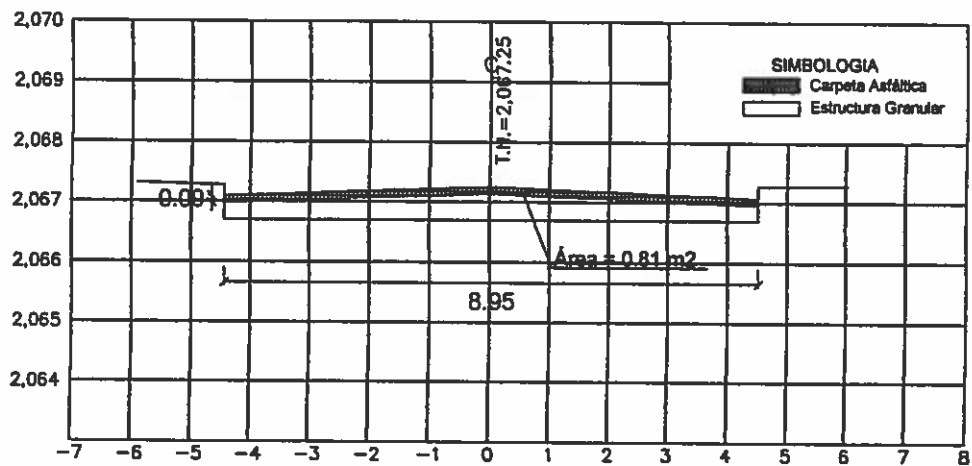
ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



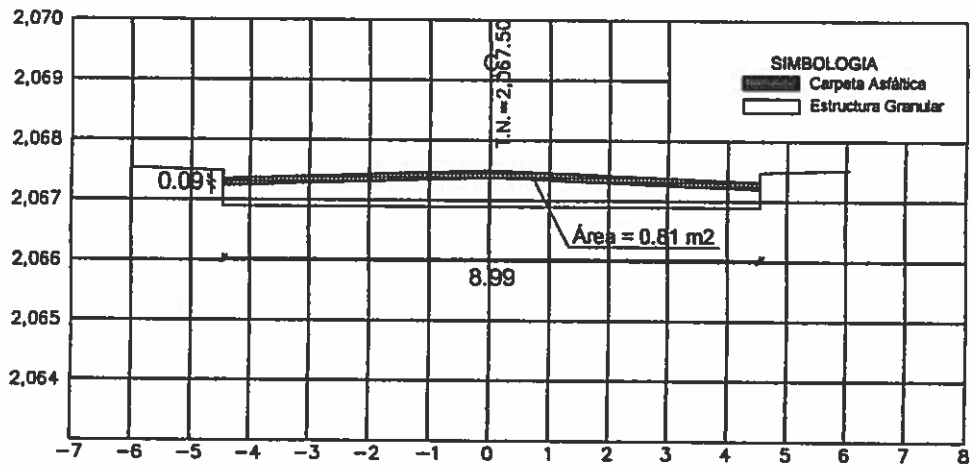
ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



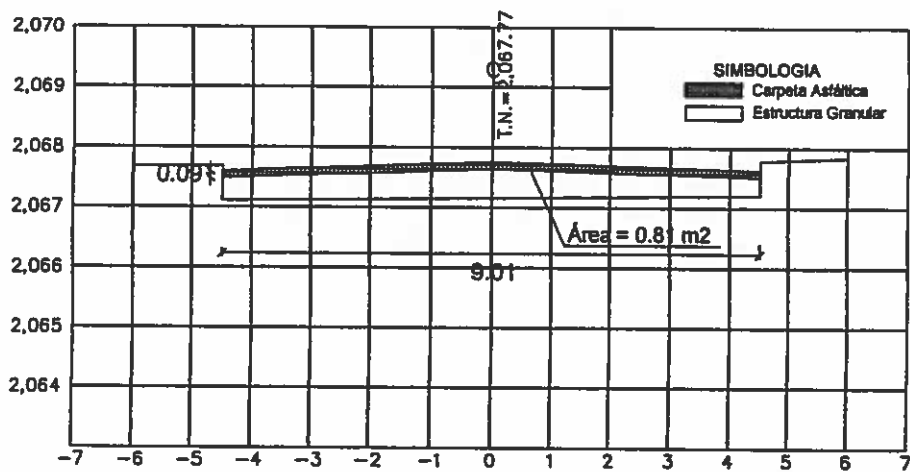
ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



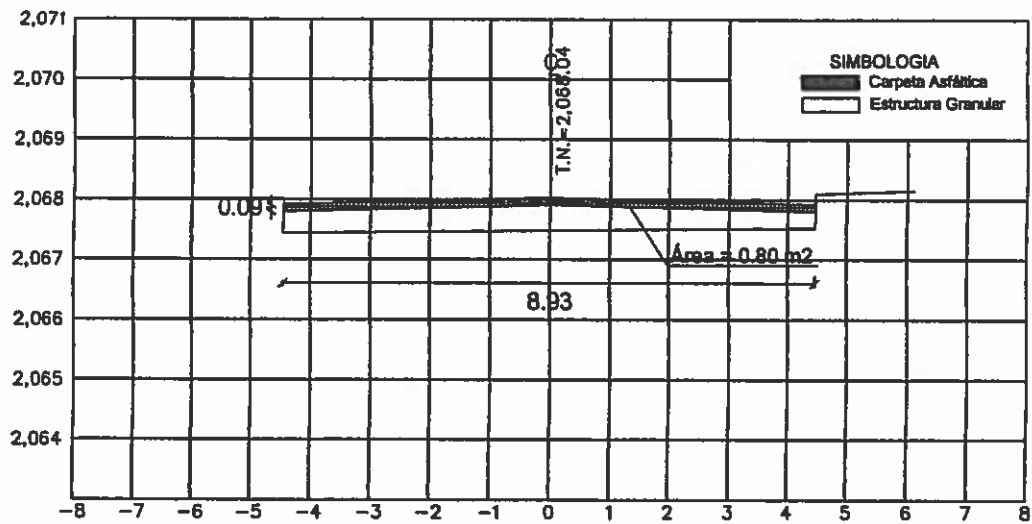
ESTACION 0+070.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



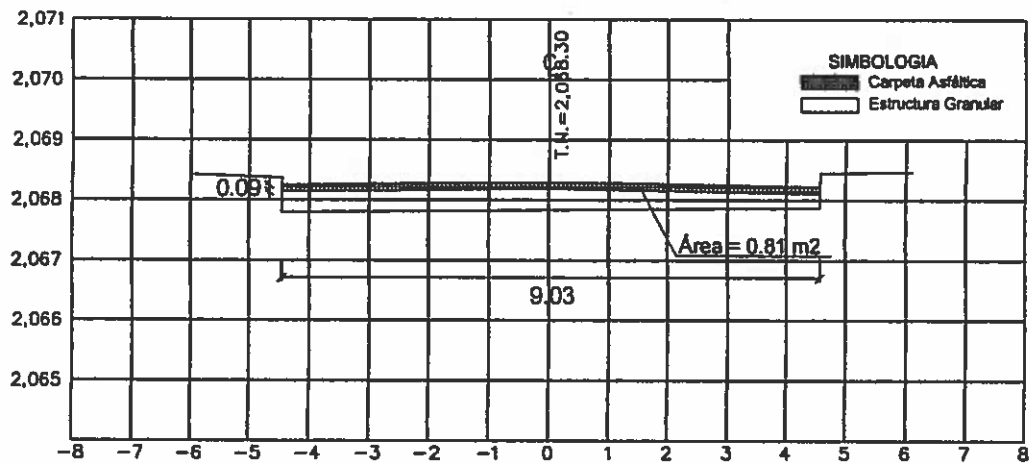
ESTACION 0+080.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



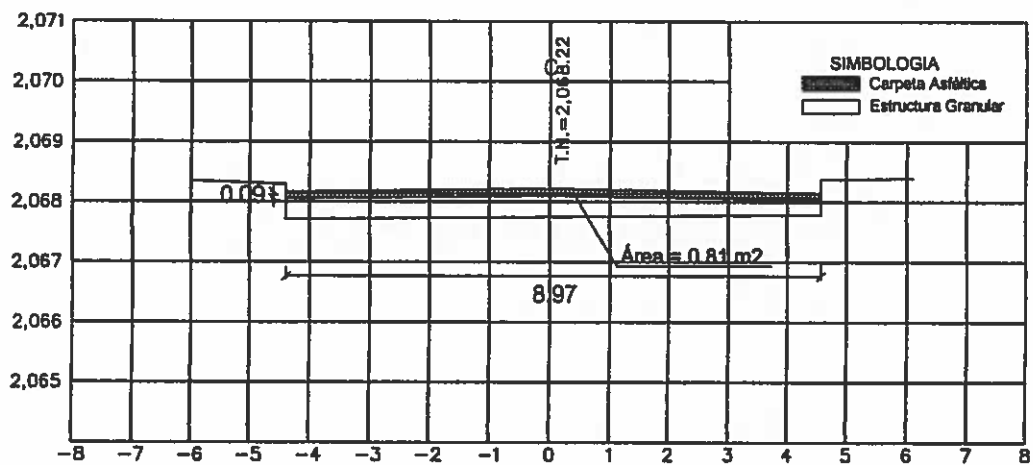
ESTACION 0+090.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+100.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

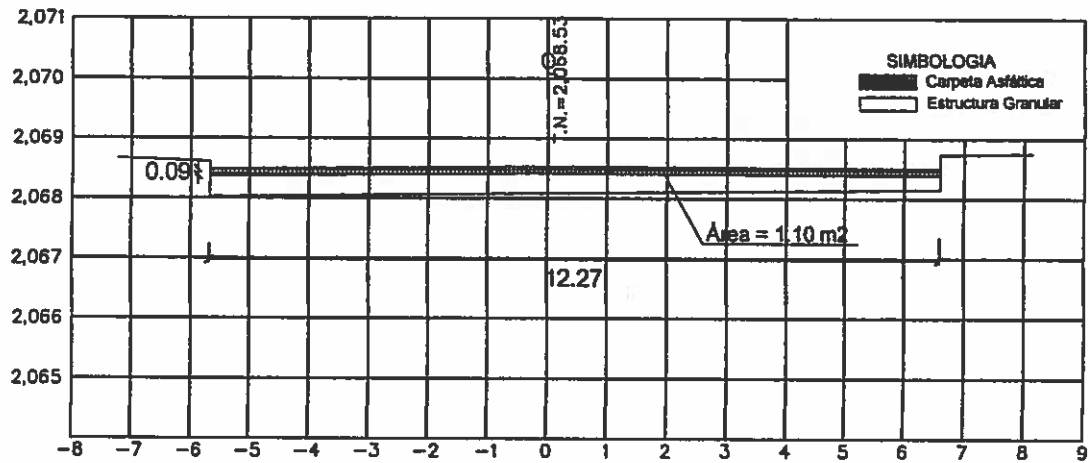


ESTACION 0+110.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



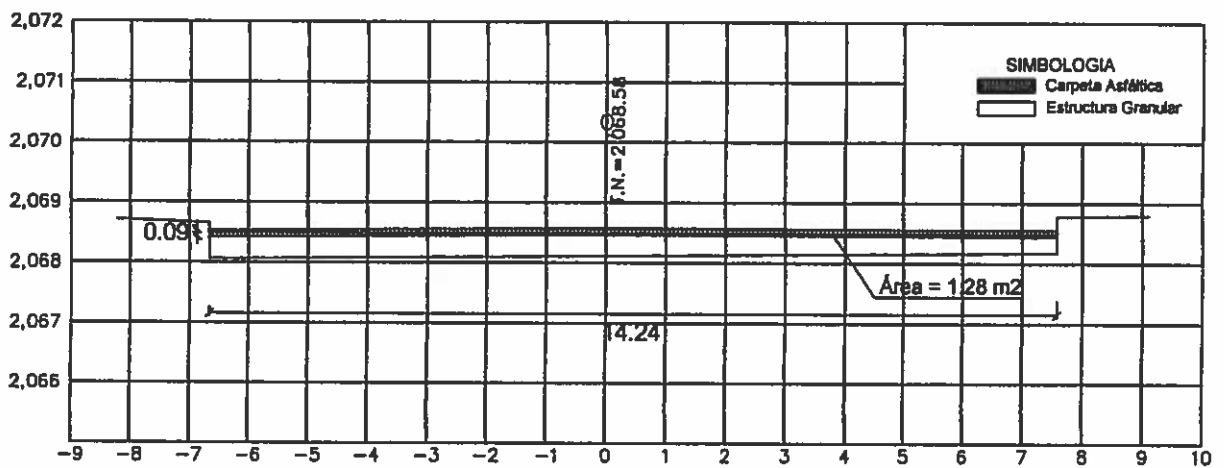
ESTACION 0+112.60
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

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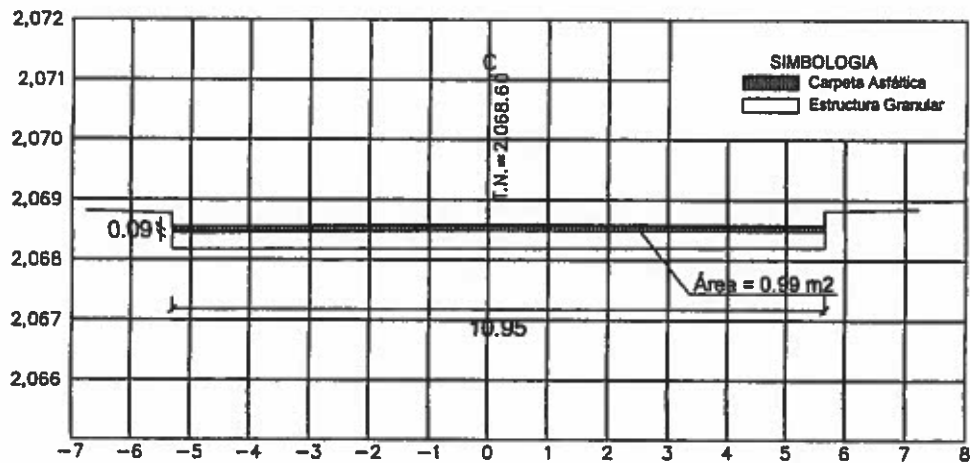


ESTACION 0+116.26
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

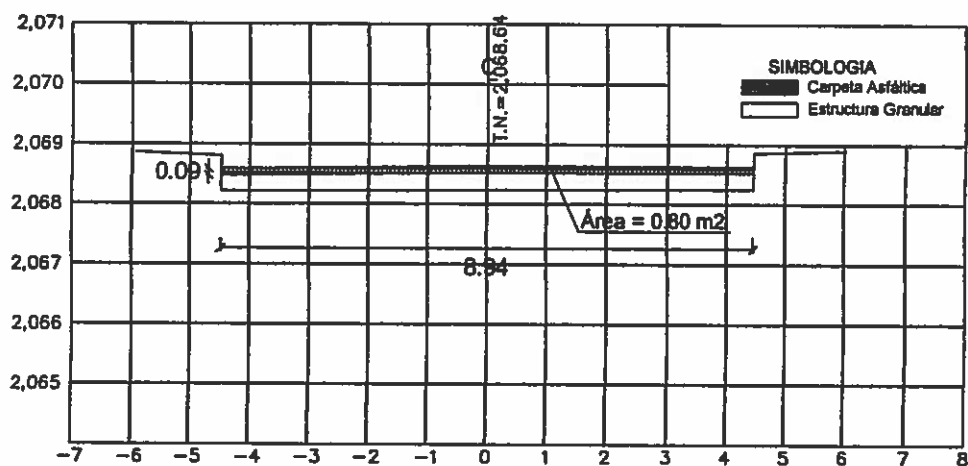
C/ MACARA DESDE MIGUEL RIOFRIO HASTA AZUAY



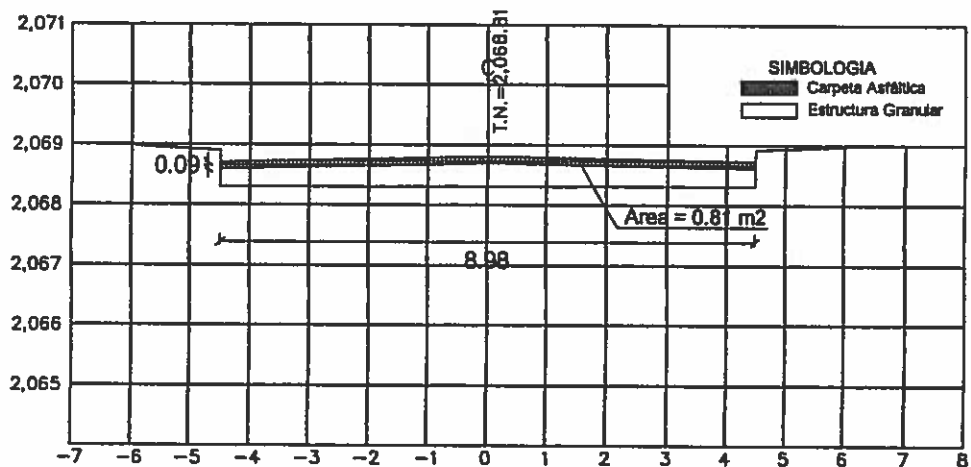
ESTACION 0+125.57
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



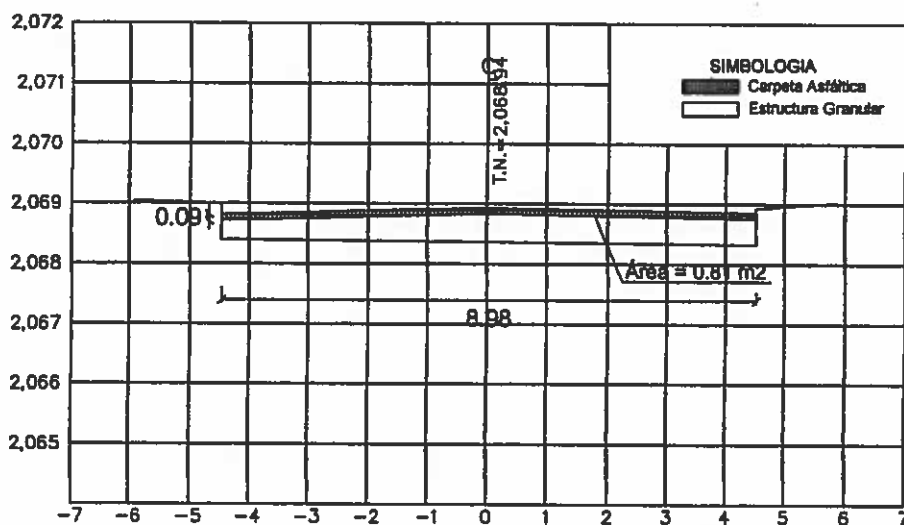
ESTACION 0+126.92
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 ESCALA VERTICAL 1 : 100



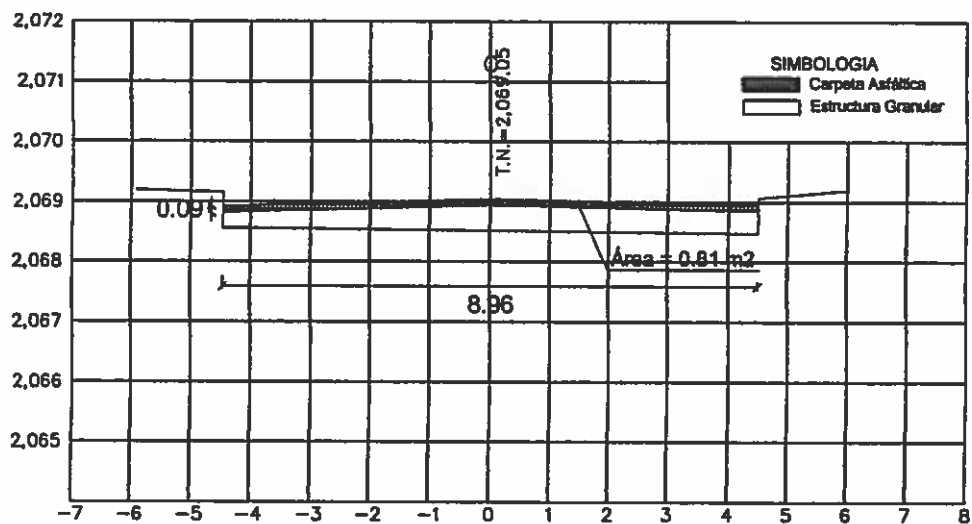
ESTACION 0+130.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+140.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

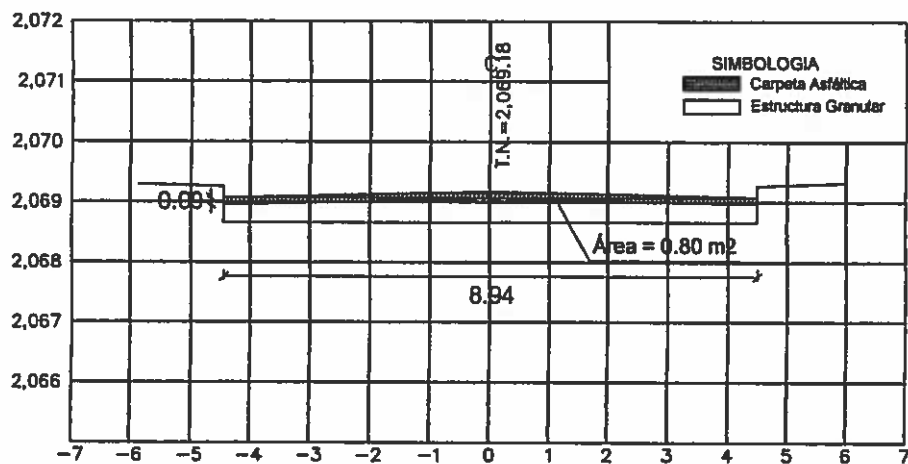


ESTACION 0+150.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



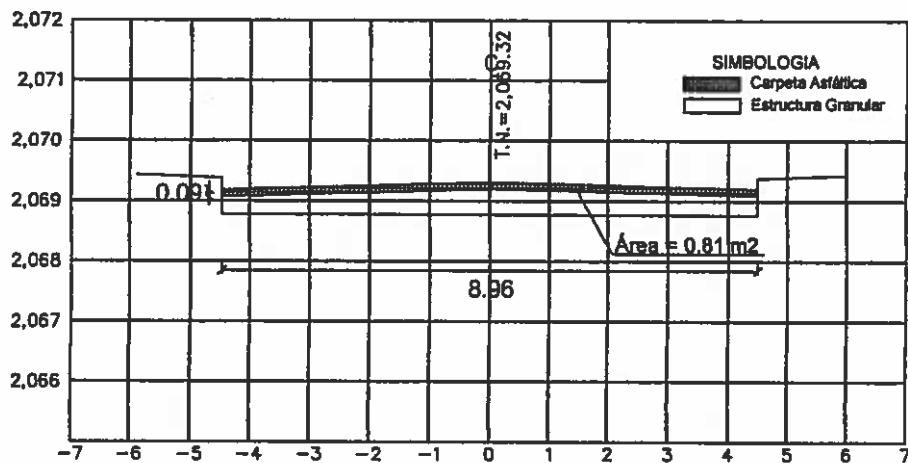
ESTACION 0+160.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



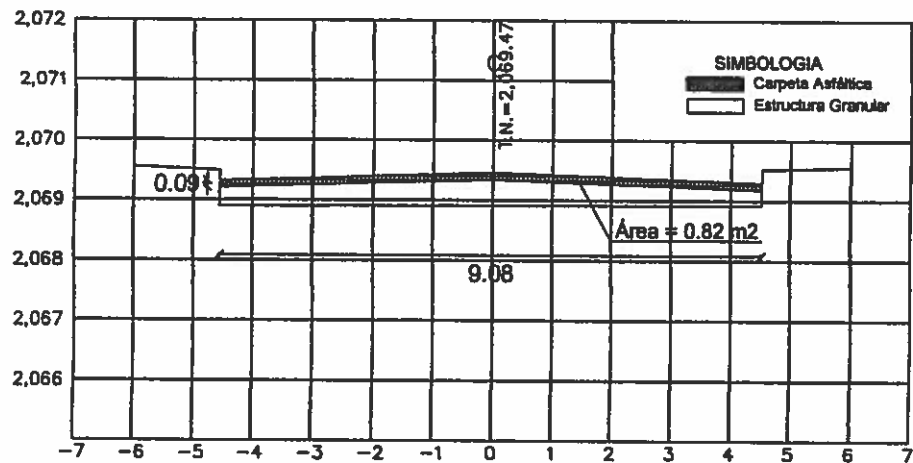
ESTACION 0+170.00

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ESCALA VERTICAL 1 : 100

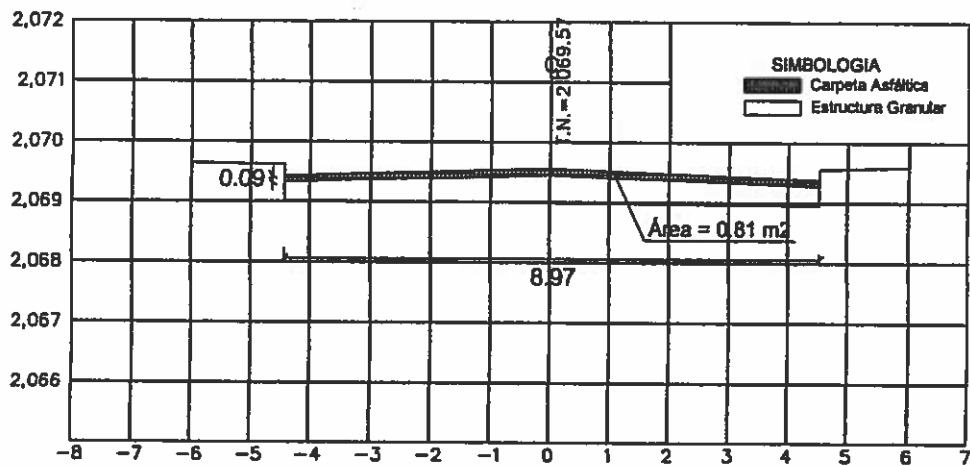


ESTACION 0+180.00

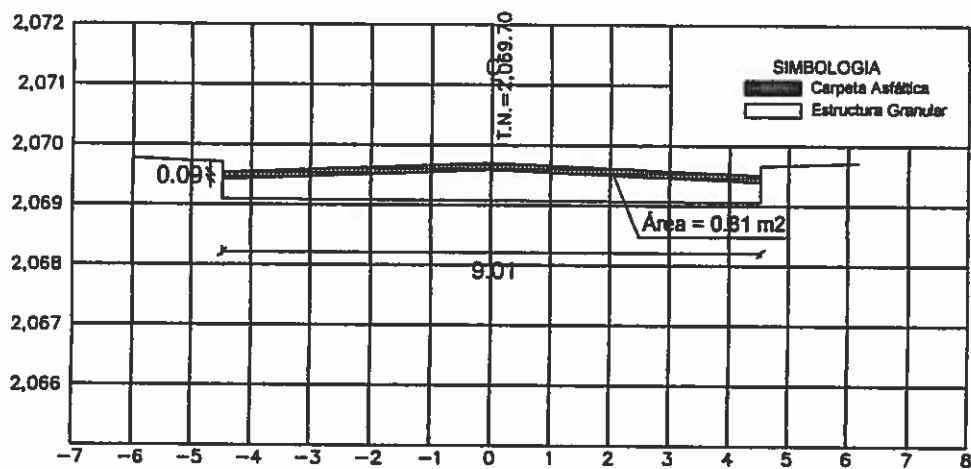
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ESCALA VERTICAL 1 : 100



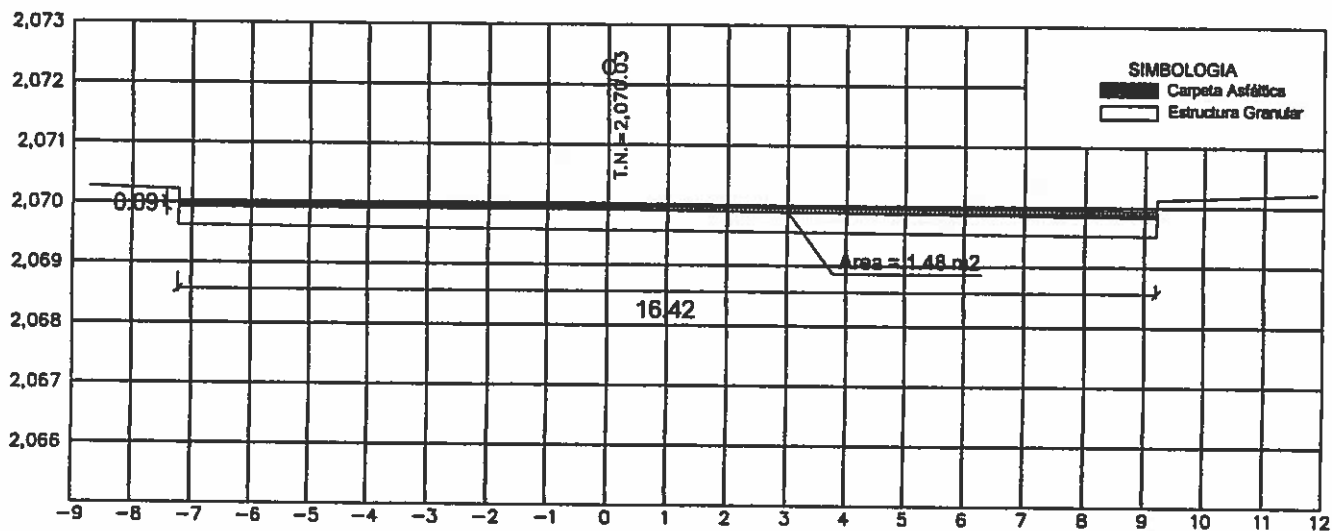
ESTACION 0+190.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



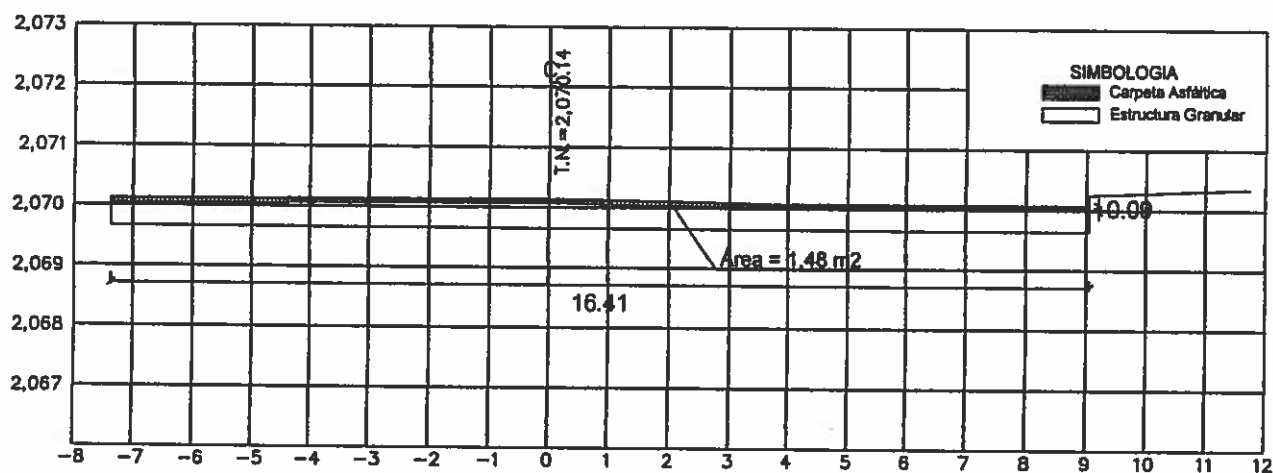
ESTACION 0+200.00
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 ESCALA VERTICAL 1 : 100



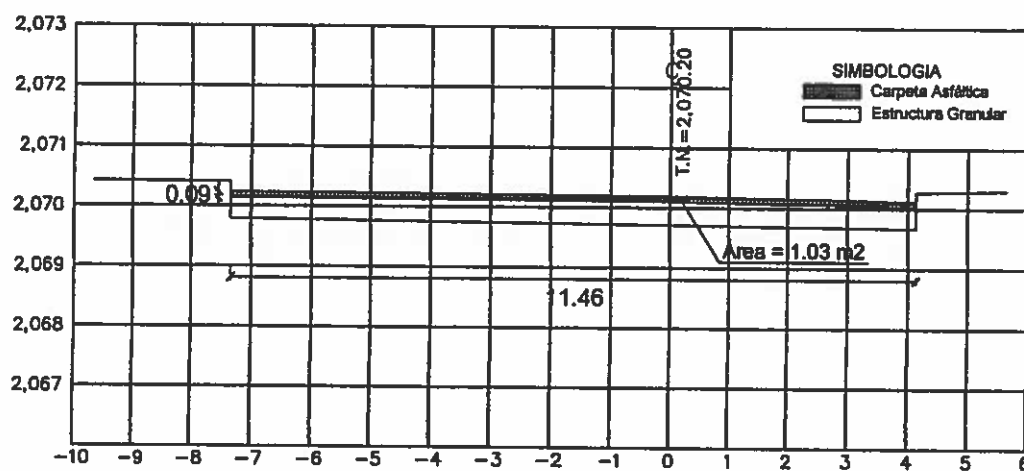
ESTACION 0+210.00
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 ESCALA VERTICAL 1 : 100



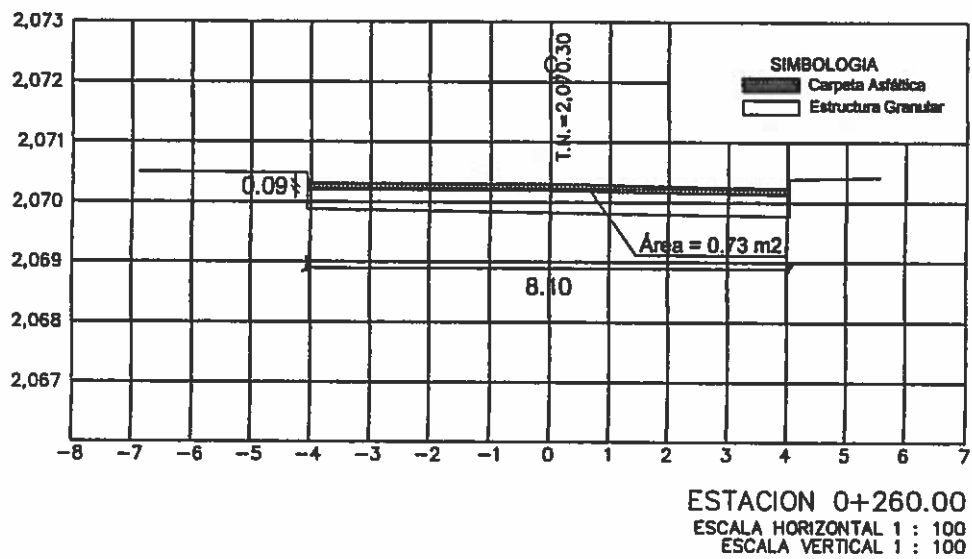
ESTACION 0+239.29
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 ESCALA VERTICAL 1 : 100



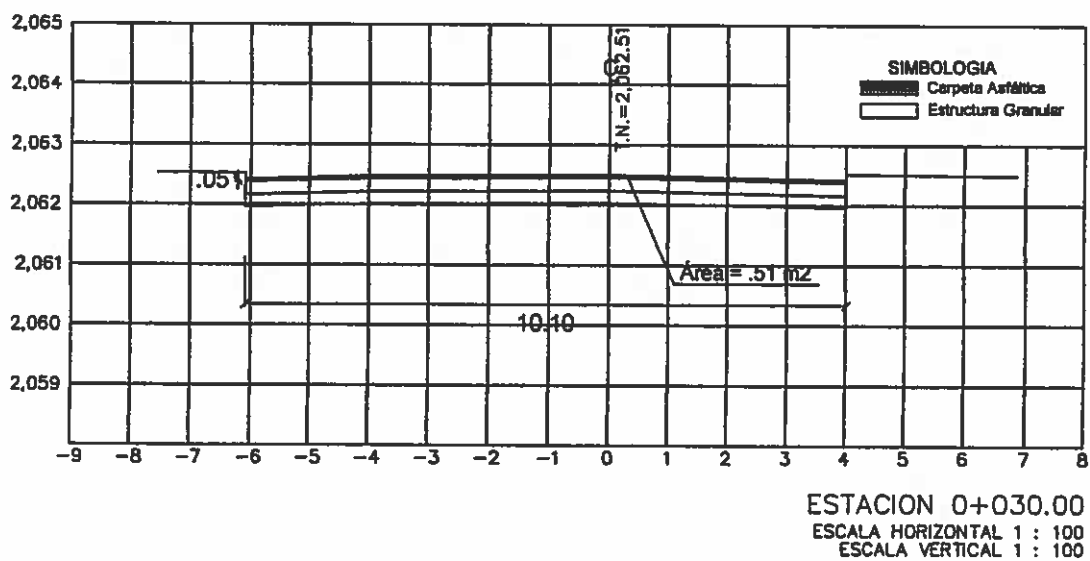
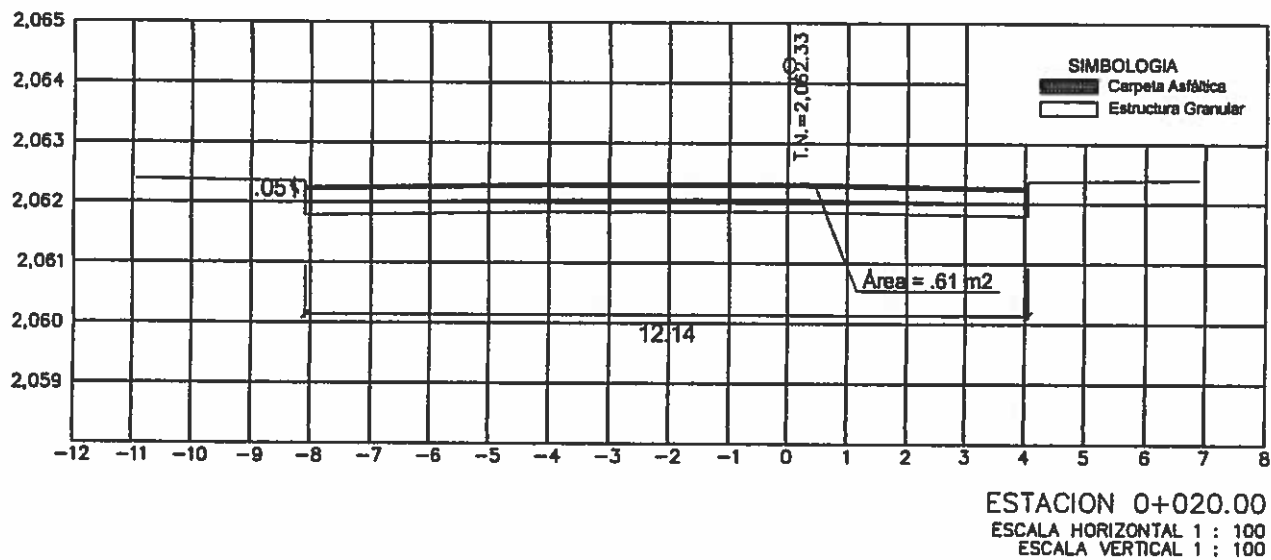
ESTACION 0+248.44
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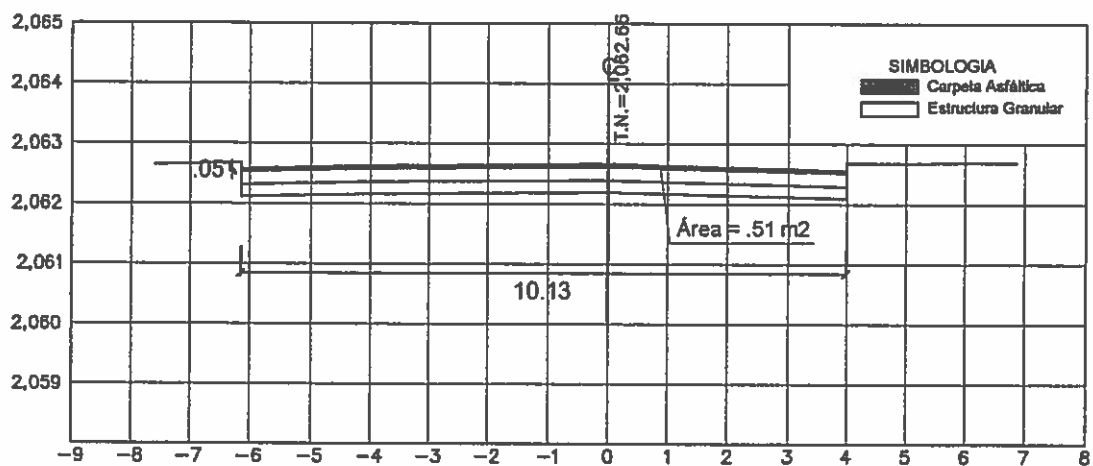


ESTACION 0+252.63
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 ESCALA VERTICAL 1 : 100

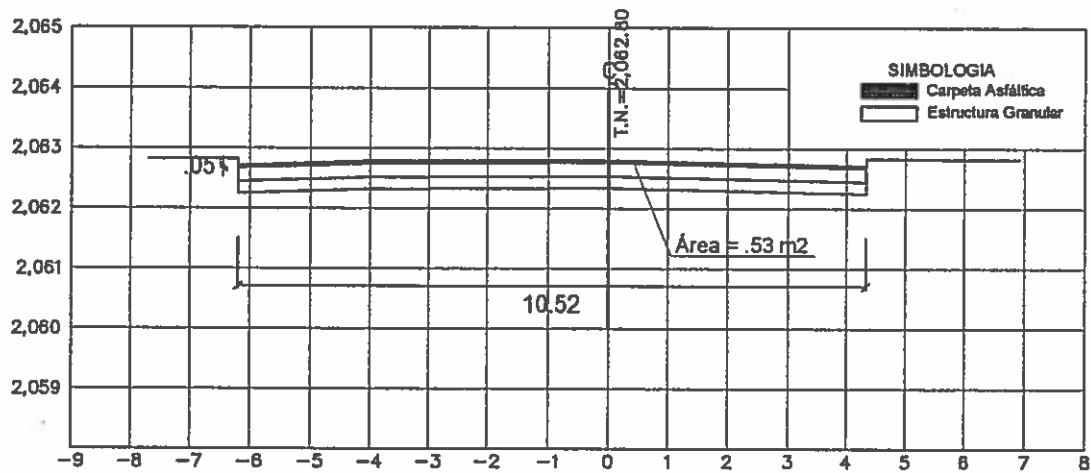


AV. 24 DE MAYO ENTRE AV. EMILIANO ORTEGA Y J. A. EGUIGUREN

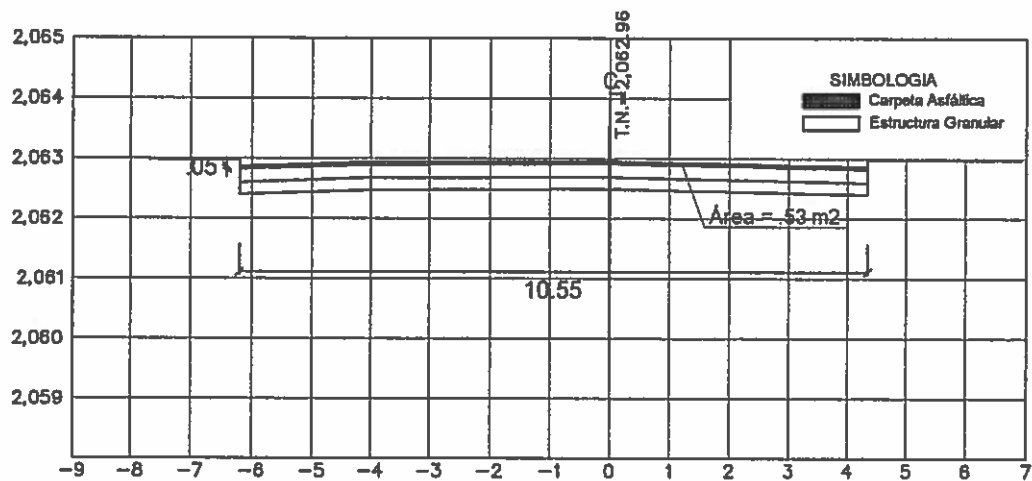




ESTACION 0+040.00
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 ESCALA VERTICAL 1 : 100



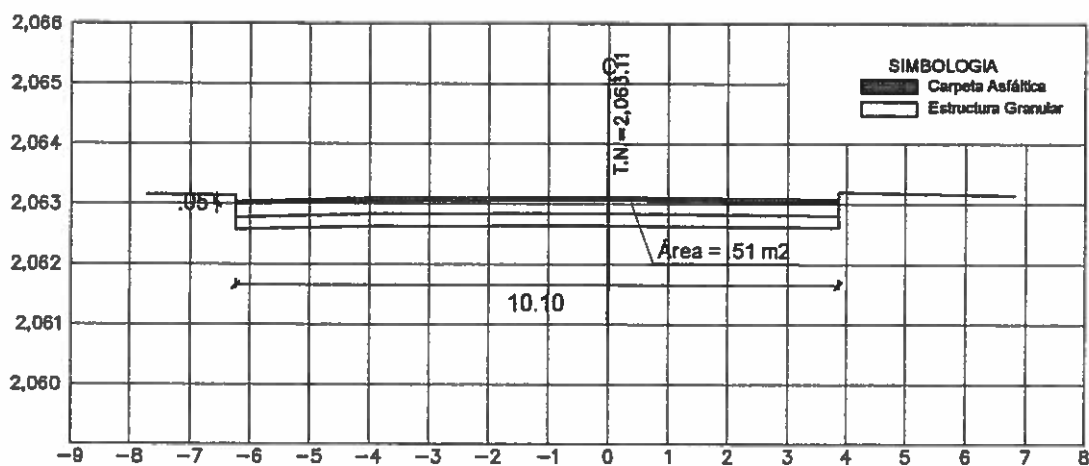
ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

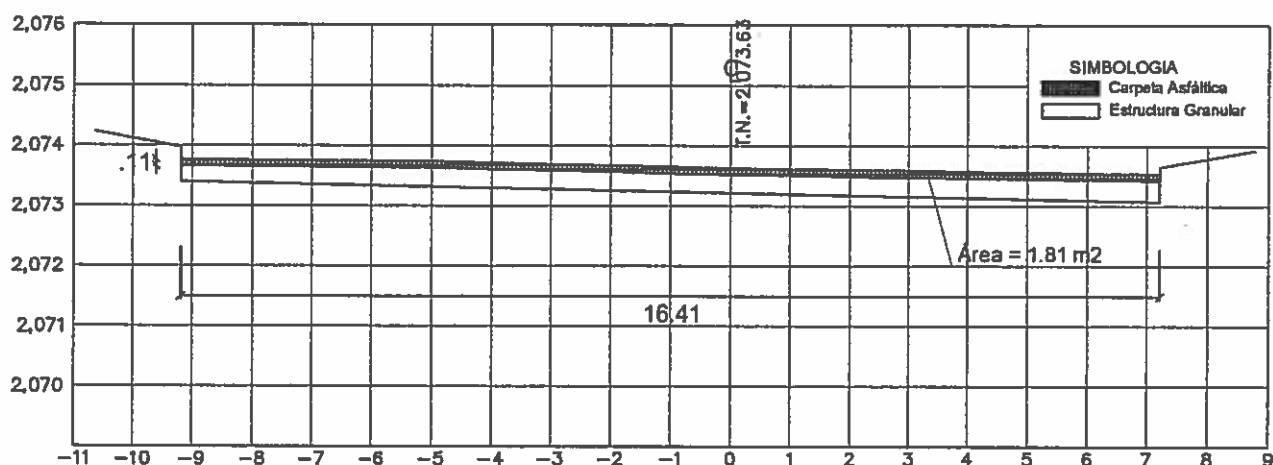
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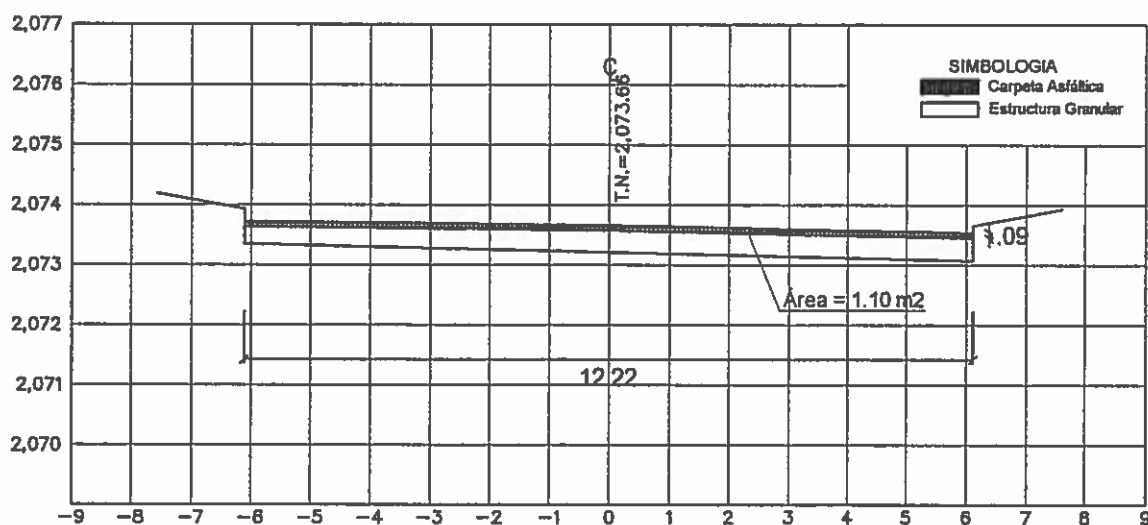


ESTACION 0+070.00
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 ESCALA VERTICAL 1 : 100

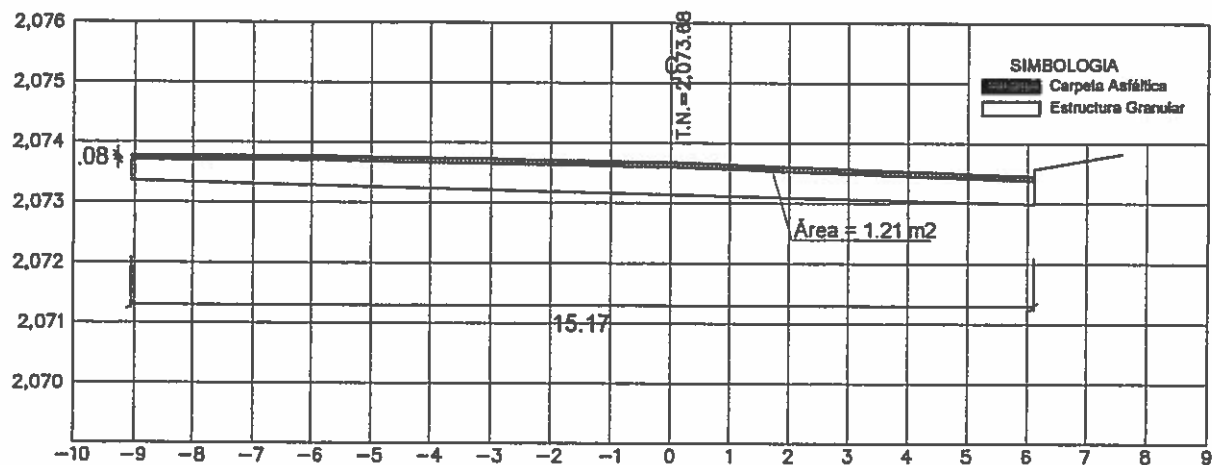
C/ LOURDES ENTRE E. ORTEGA Y MACARA



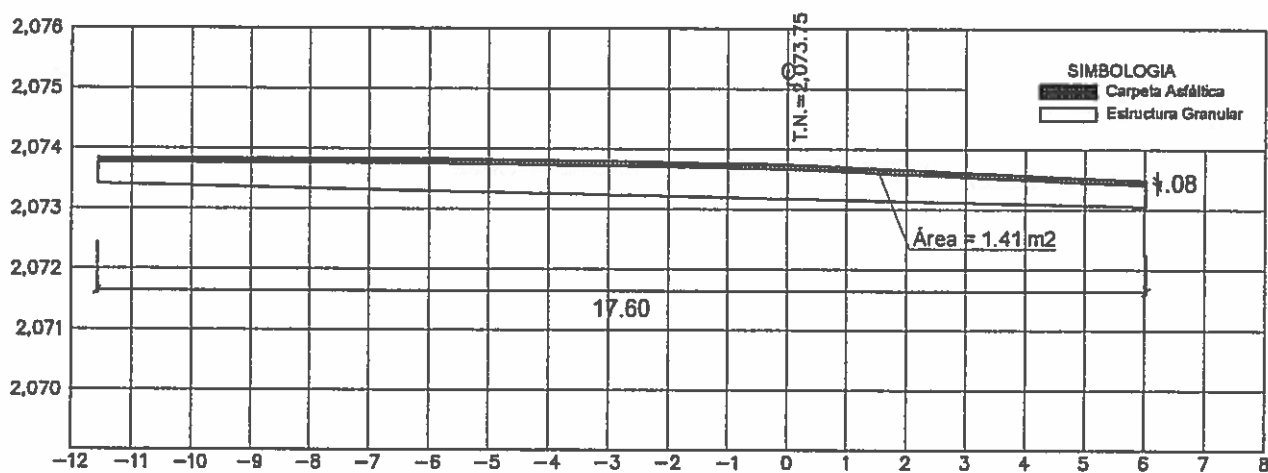
ESTACION 0+005.65
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 ESCALA VERTICAL 1 : 100



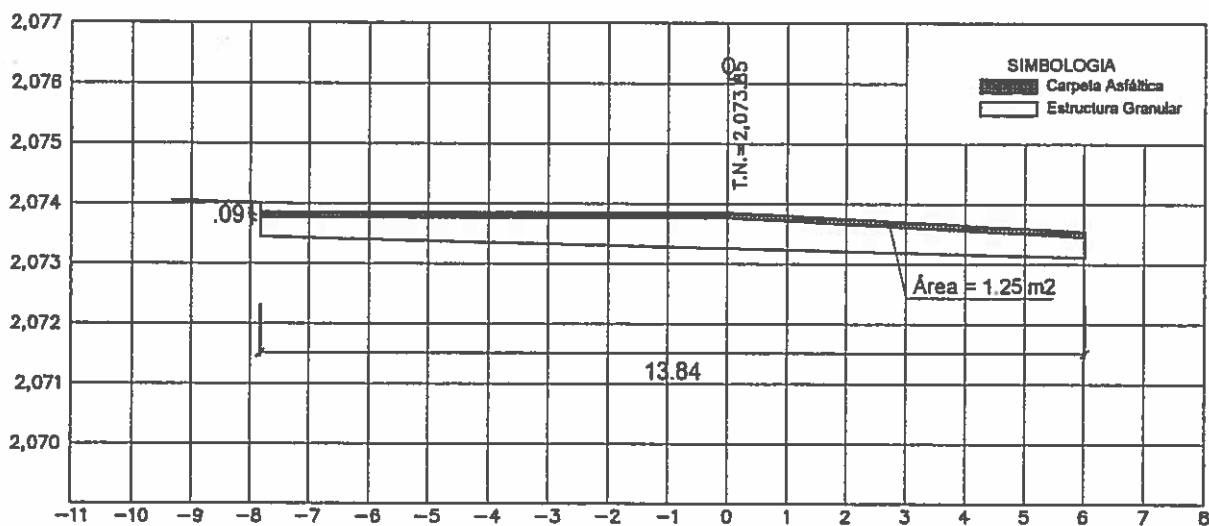
ESTACION 0+010.00
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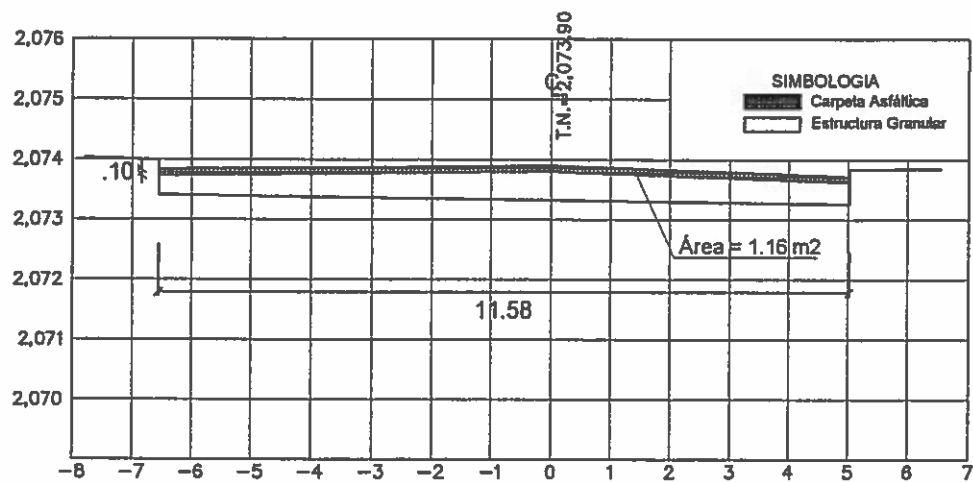
ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



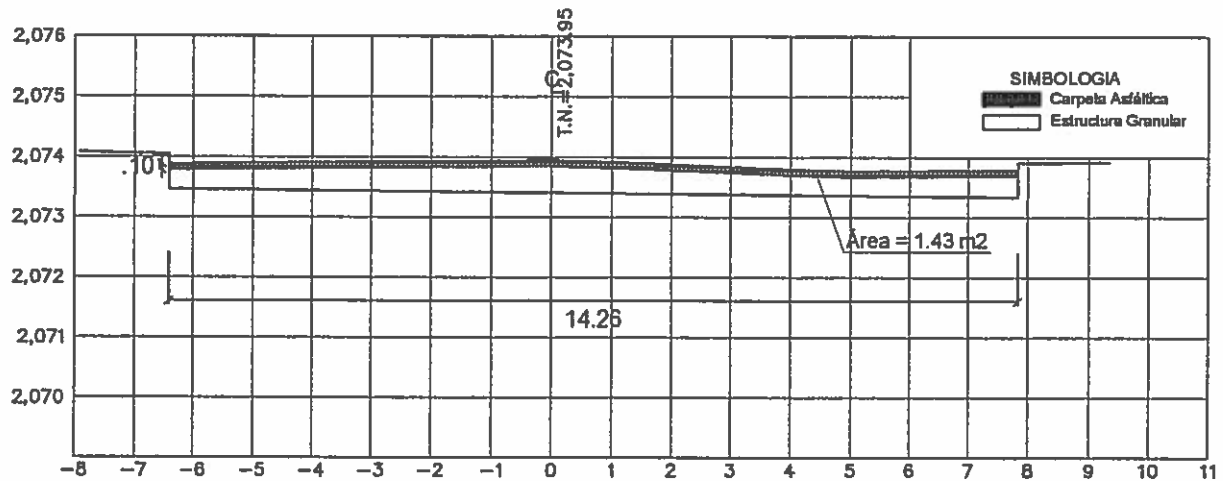
ESTACION 0+030.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



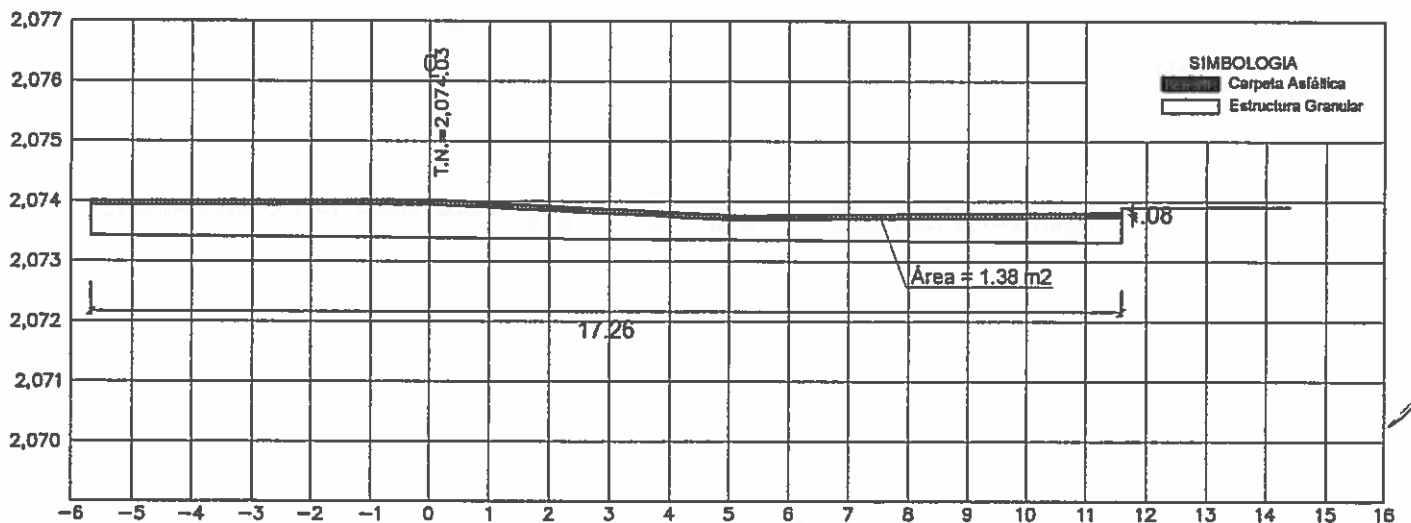
ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



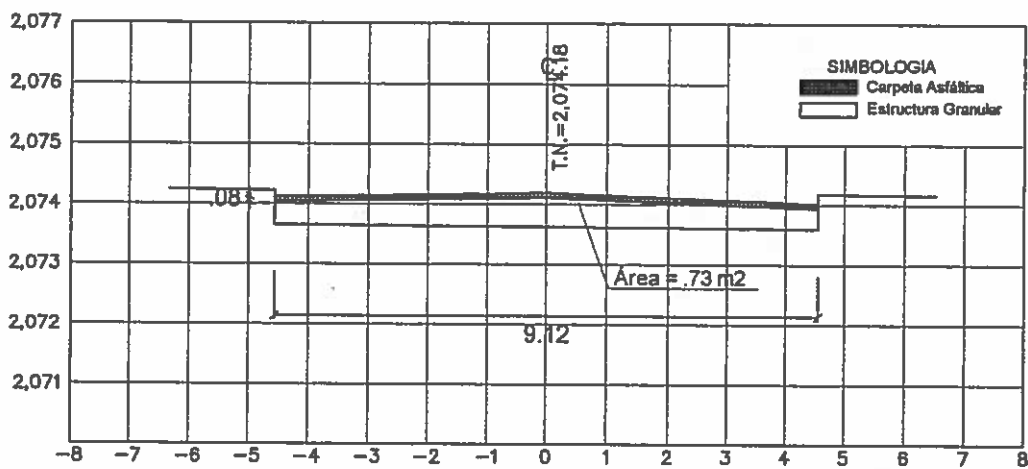
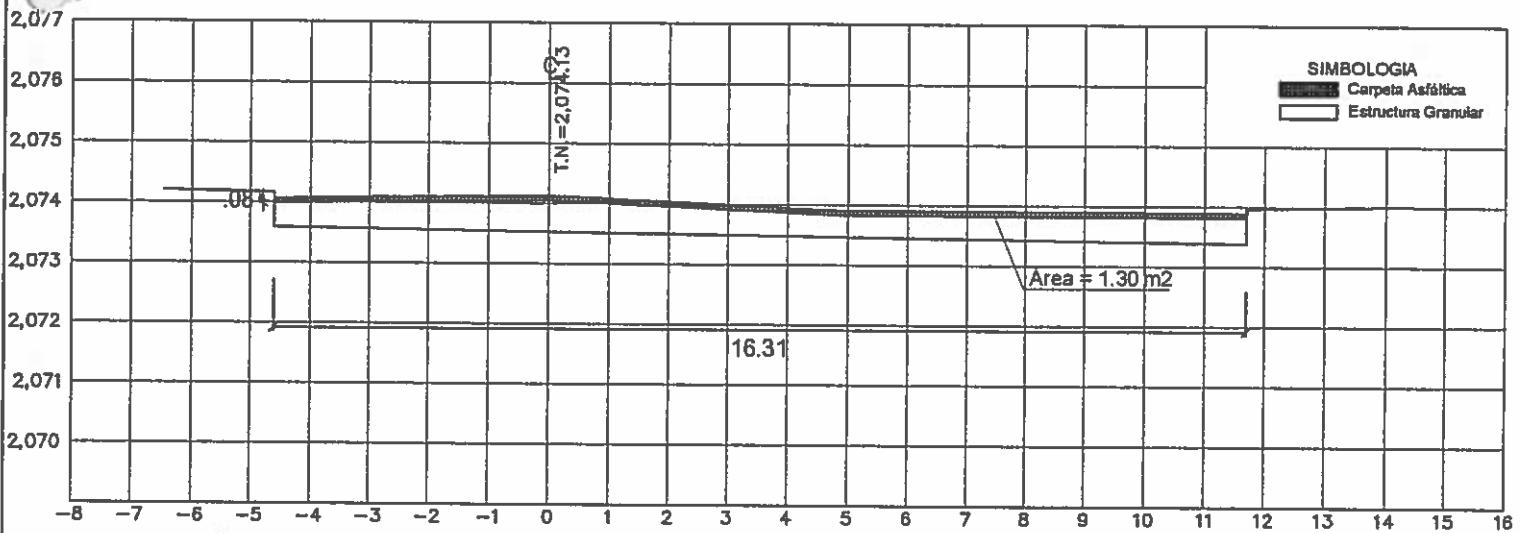
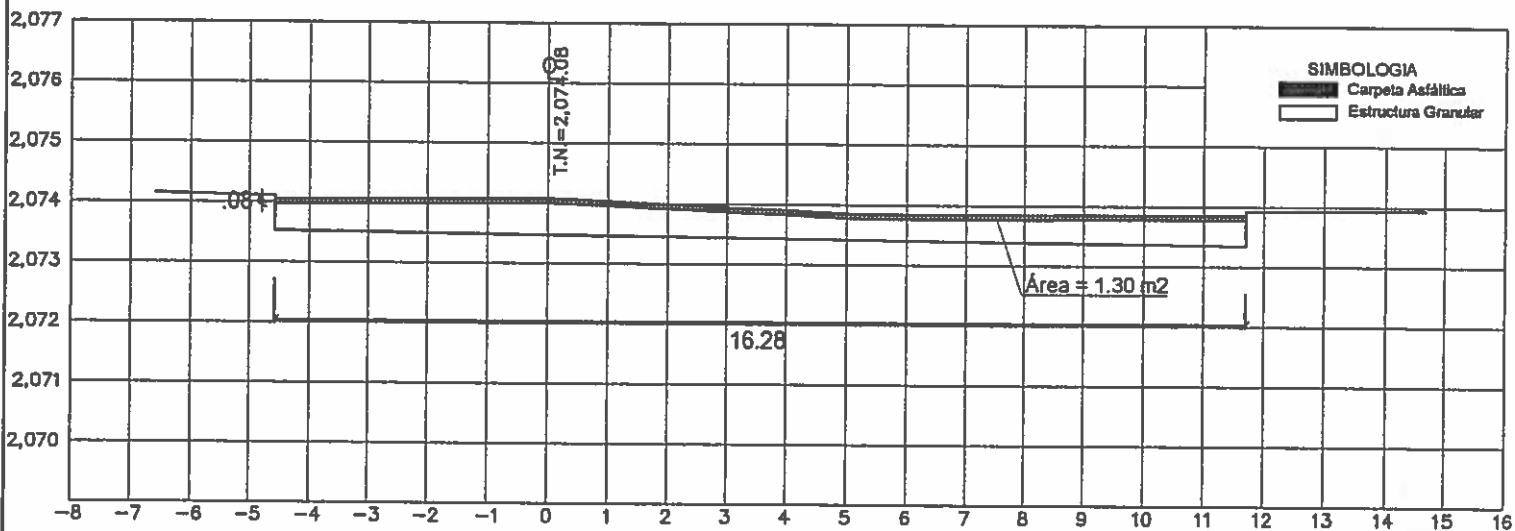
ESTACION 0+045.00
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 ESCALA VERTICAL 1 : 100



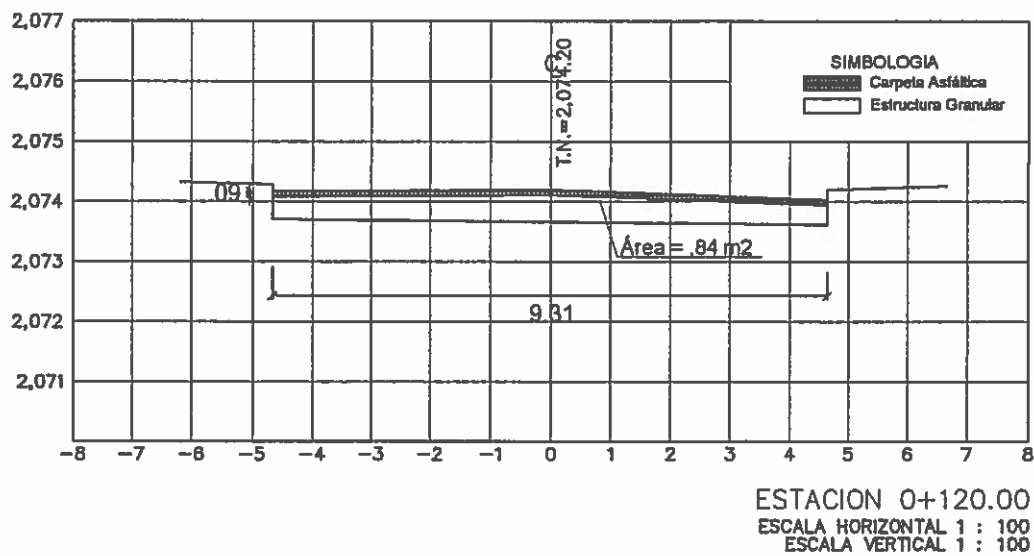
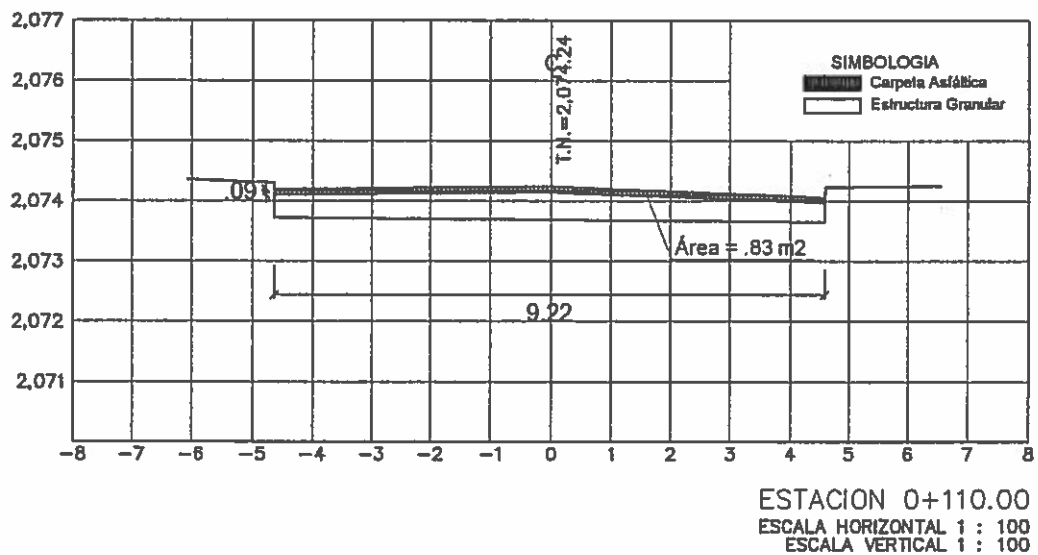
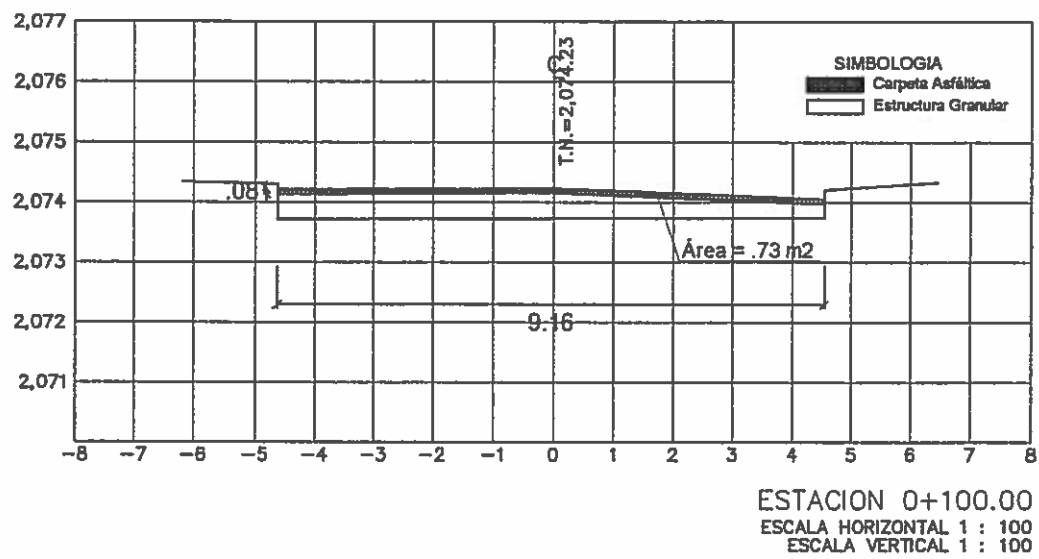
ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

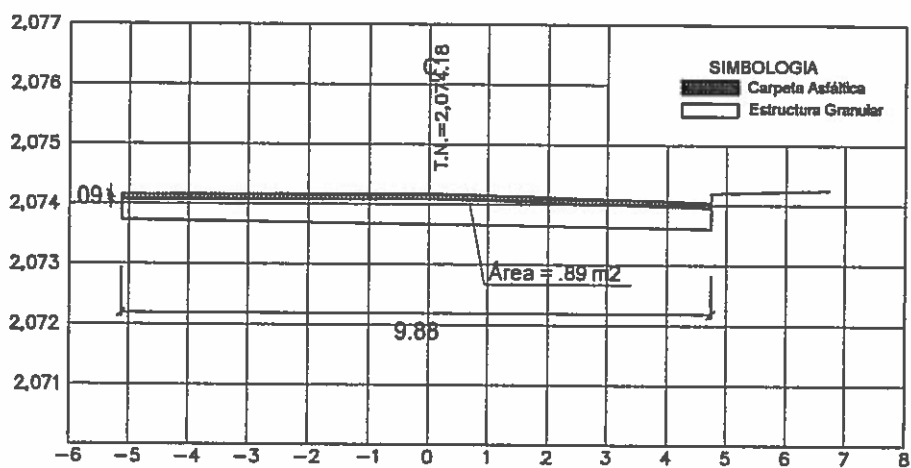


ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

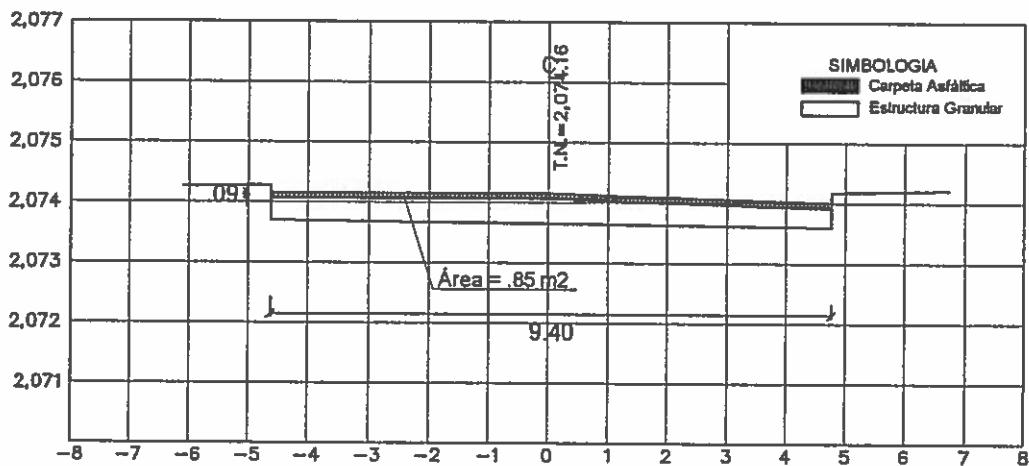


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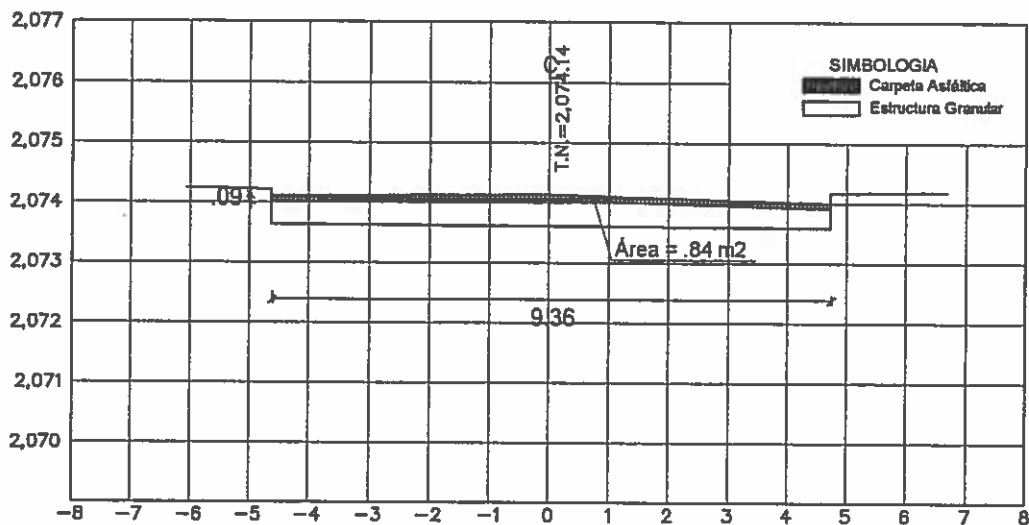




ESTACION 0+130.00
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 ESCALA VERTICAL 1 : 100

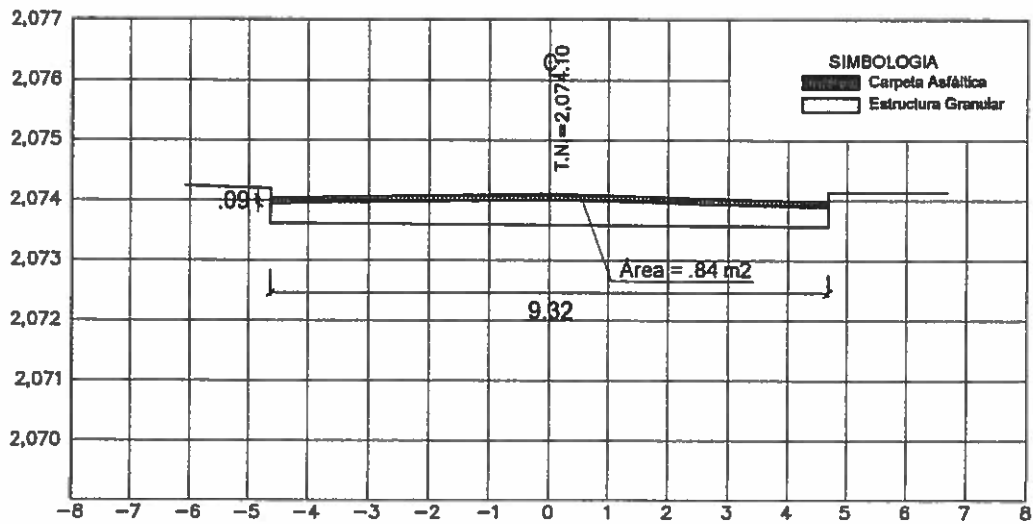


ESTACION 0+140.00
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 ESCALA VERTICAL 1 : 100

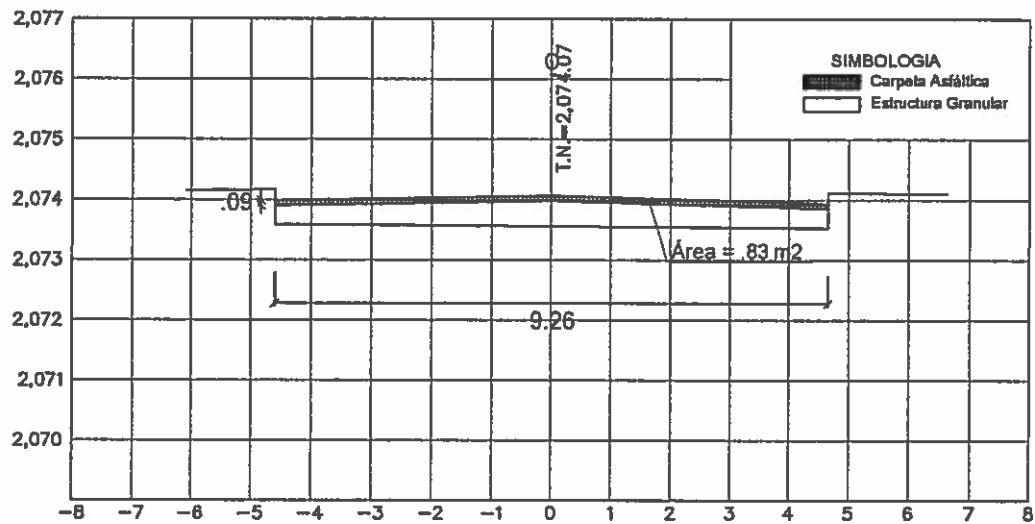


ESTACION 0+150.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

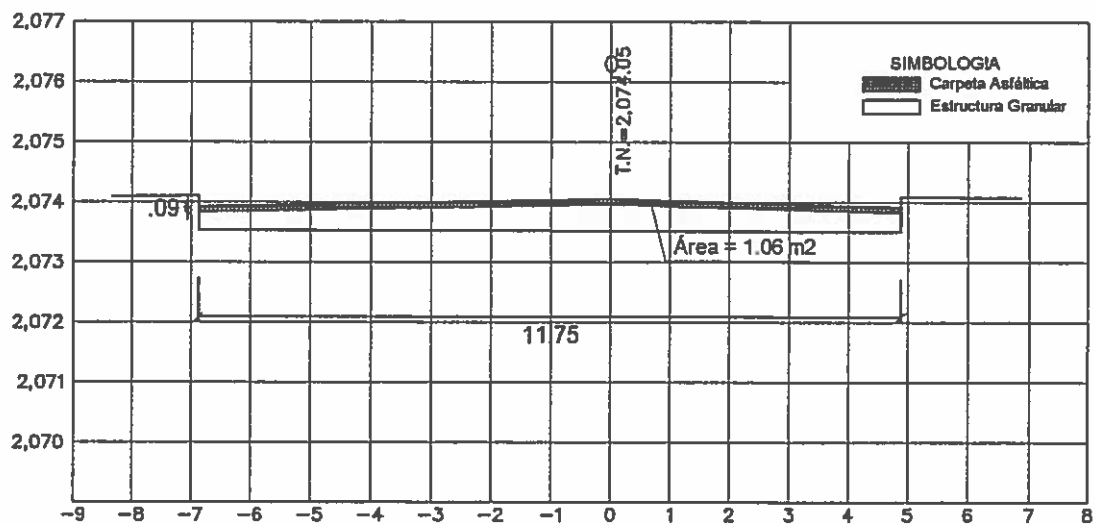
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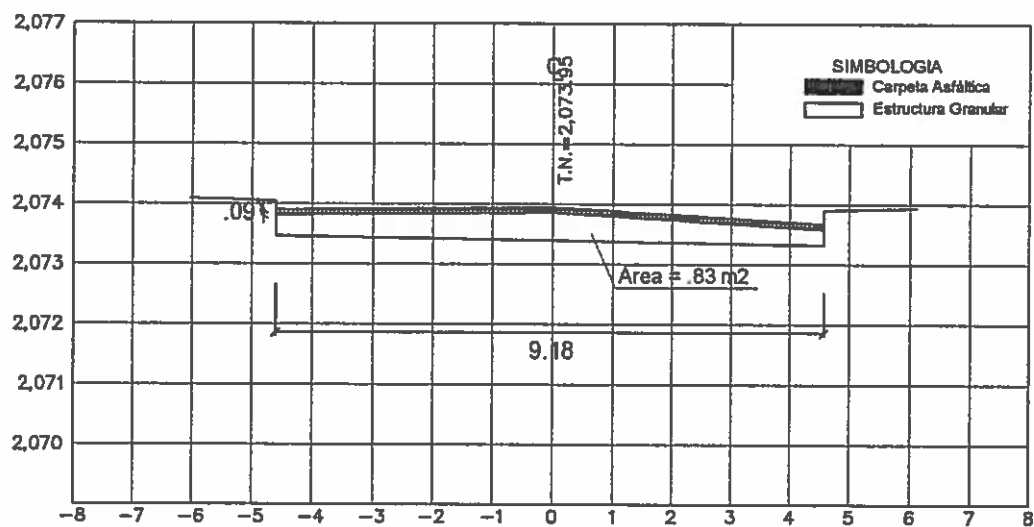
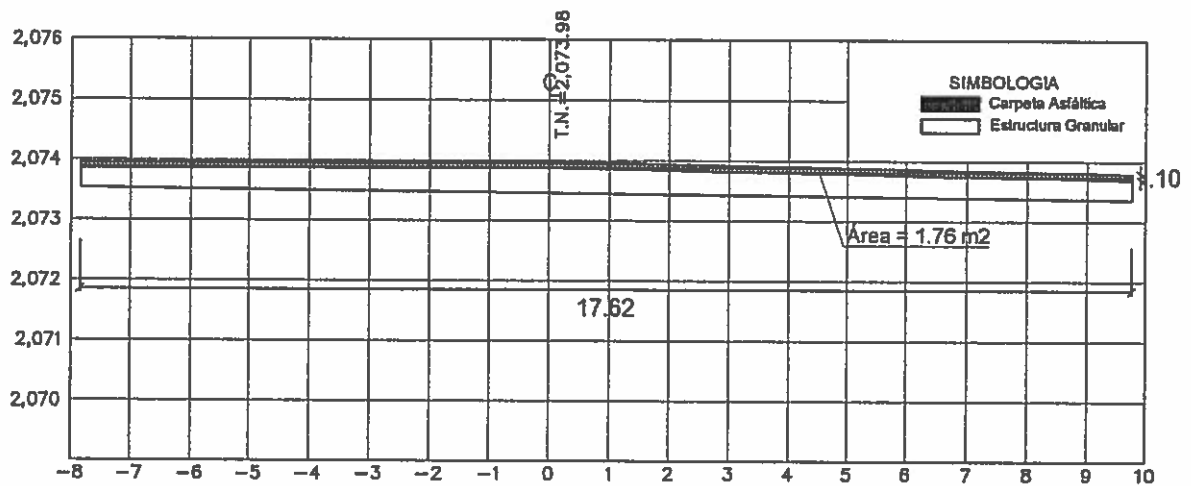
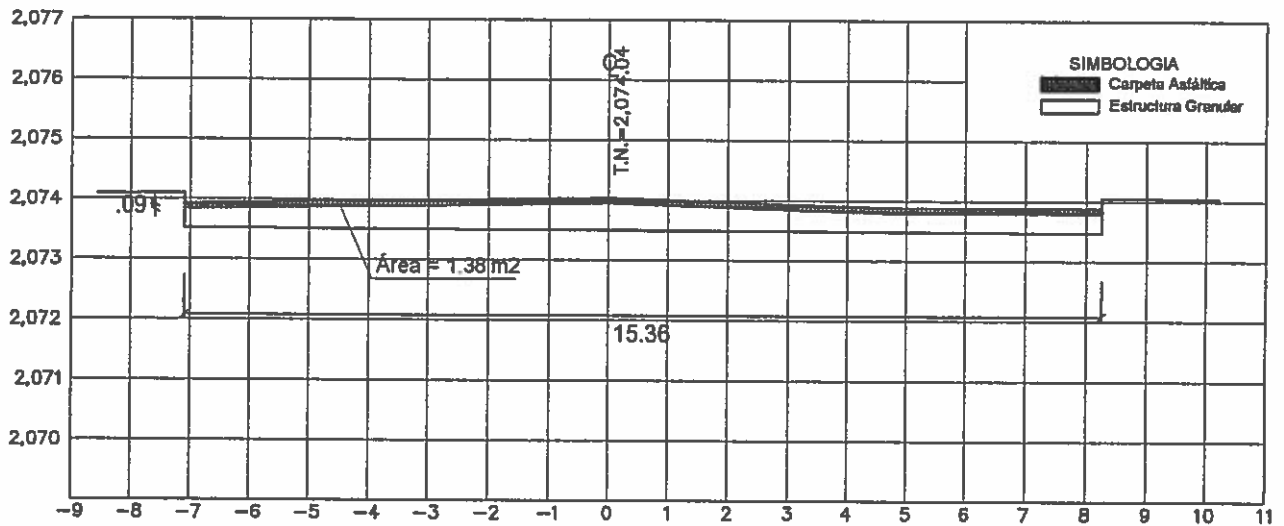
ESTACION 0+160.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



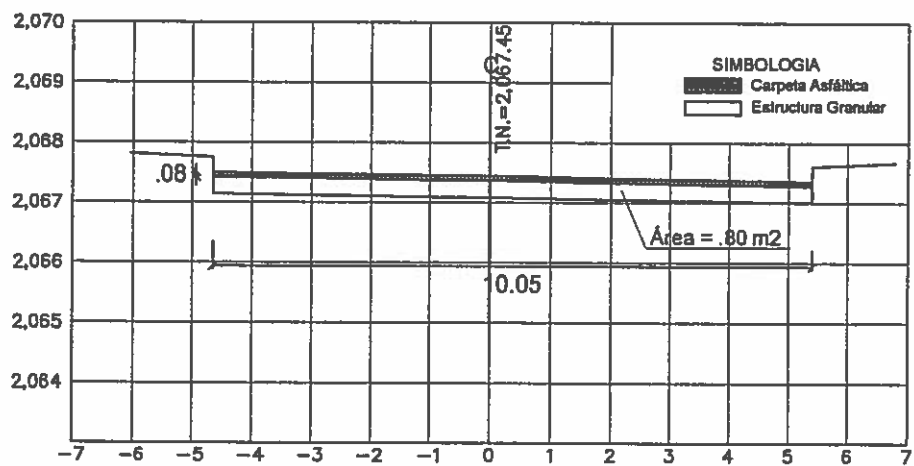
ESTACION 0+170.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



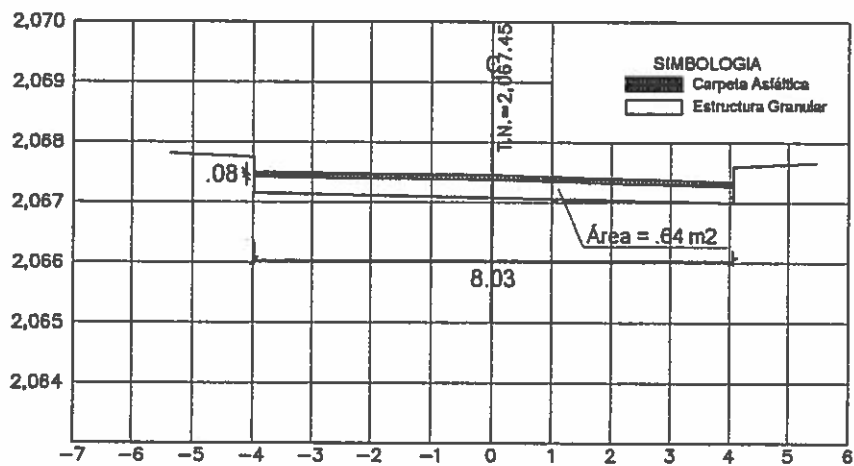
ESTACION 0+175.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



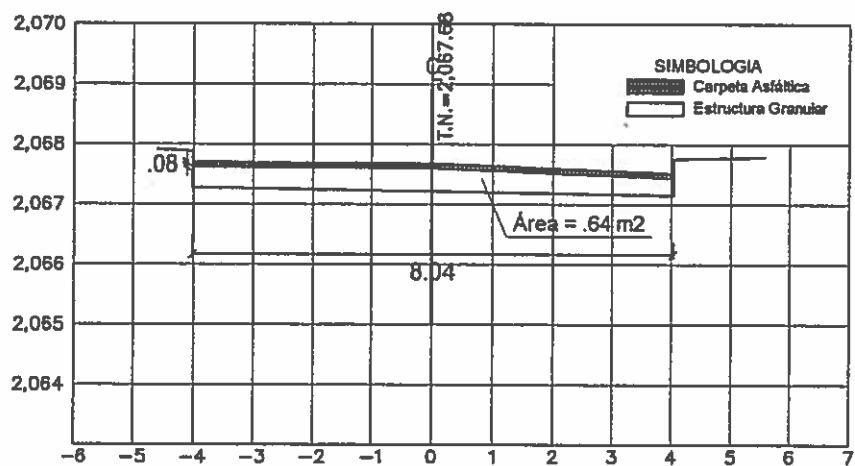
C/ MIGUEL RIOFRIO DESDE AV. EMILIANO ORTEGA HASTA MACARA



ESTACION 0+008.19
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

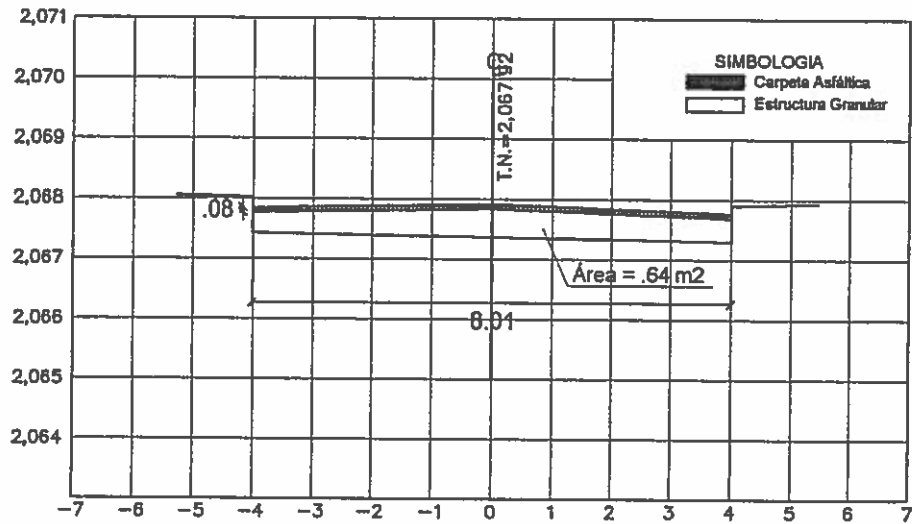


ESTACION 0+013.54
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

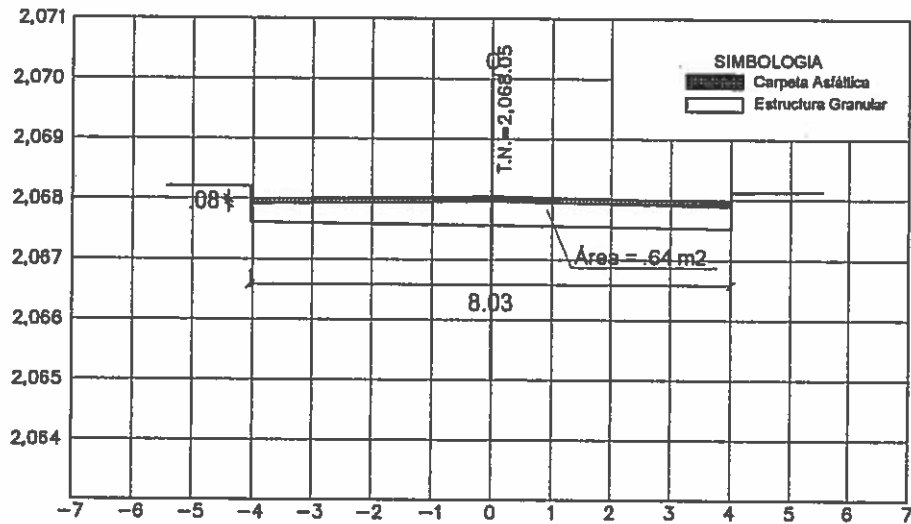


ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

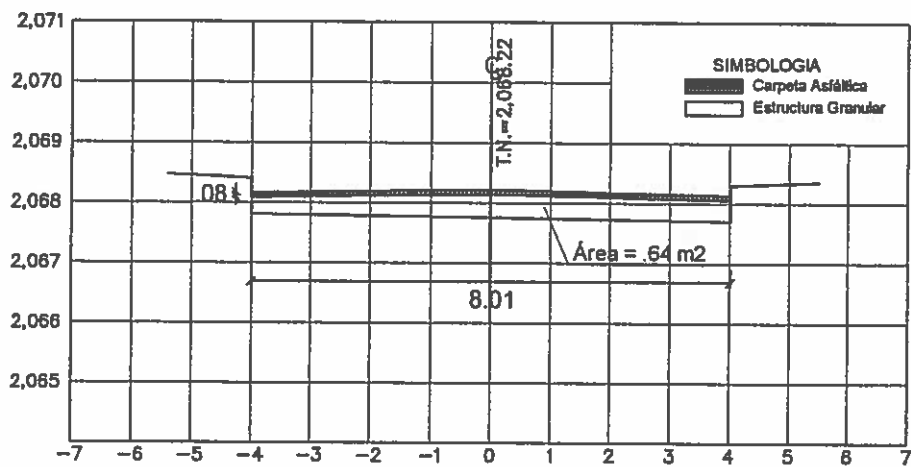
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ESTACION 0+030.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



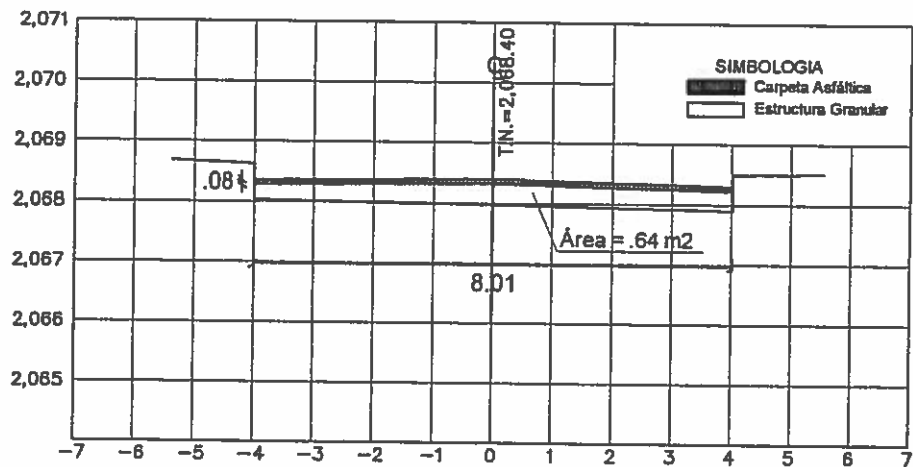
ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



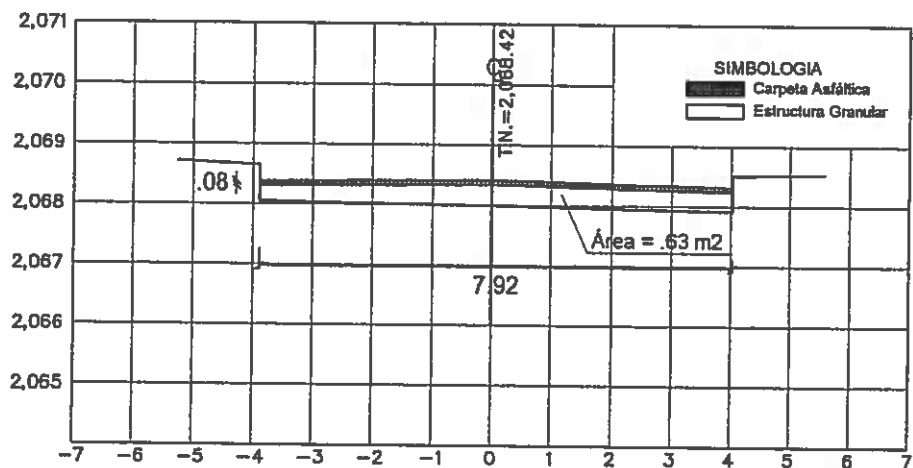
ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

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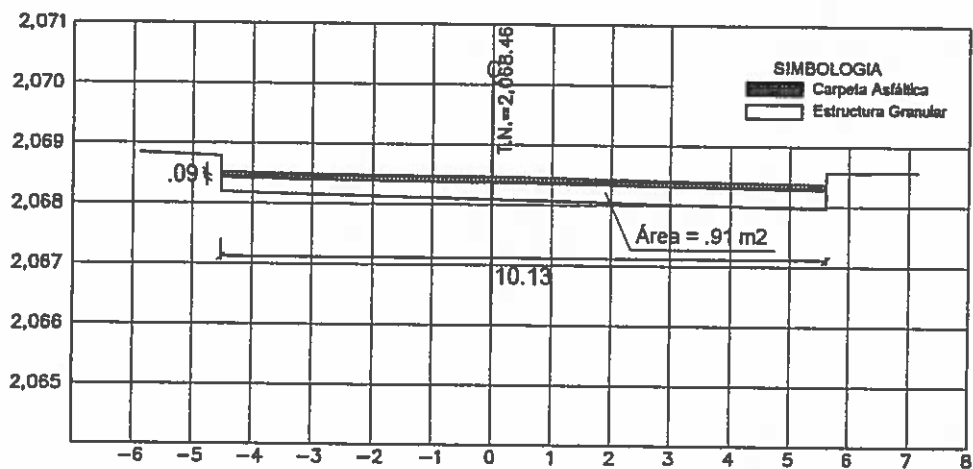
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ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

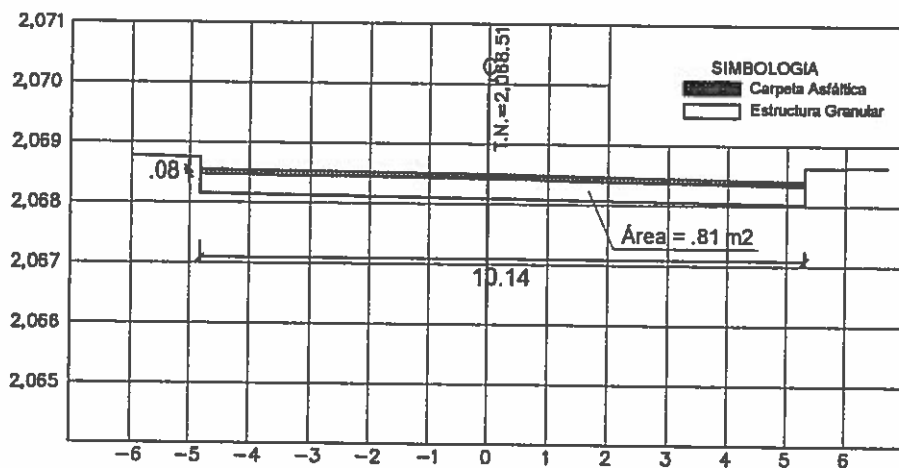


ESTACION 0+064.98
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 ESCALA VERTICAL 1 : 100

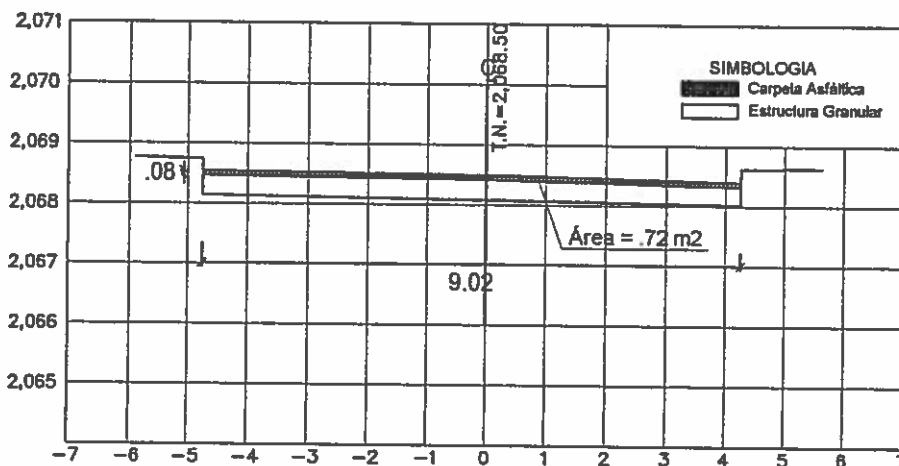


ESTACION 0+068.36
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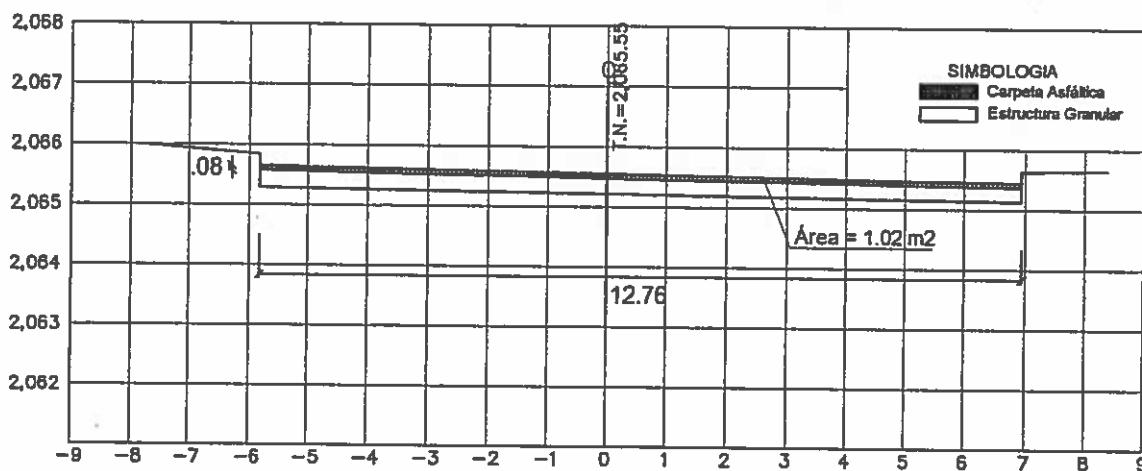


ESTACION 0+080.62
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 ESCALA VERTICAL 1 : 100



ESTACION 0+081.75
 ESCALA HORIZONTAL 1 : 100
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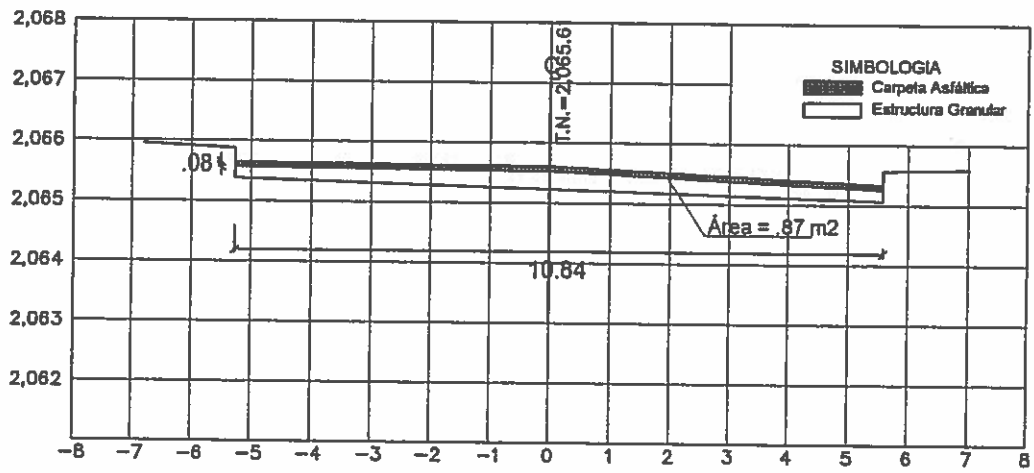
C/ ROCAFUERTE DESDE AV. EMILIANO ORTEGA HASTA MACARA



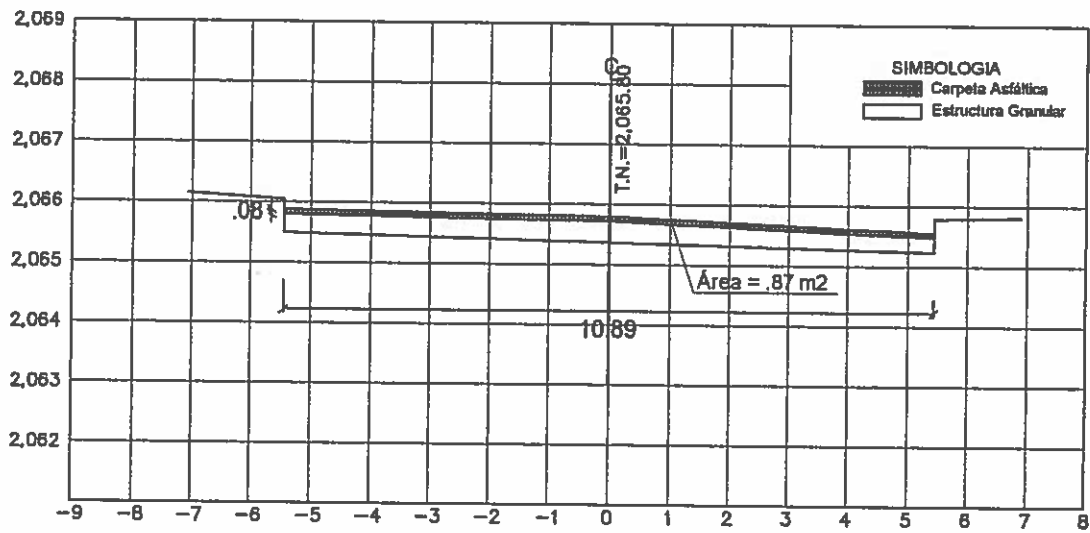
ESTACION 0+008.41
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 ESCALA VERTICAL 1 : 100

4

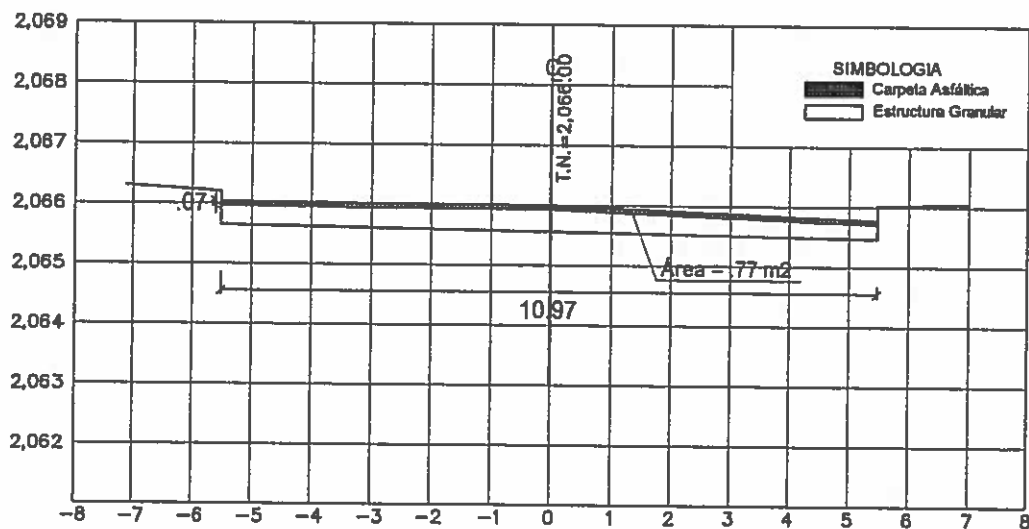
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ESTACION 0+012.25
 ESCALA HORIZONTAL 1 : 100
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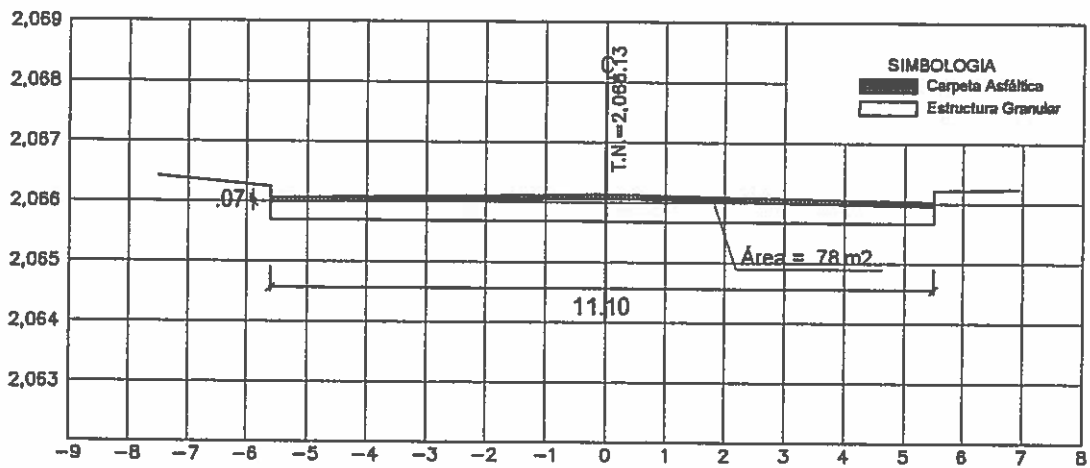


ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+030.00
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 ESCALA VERTICAL 1 : 100

4

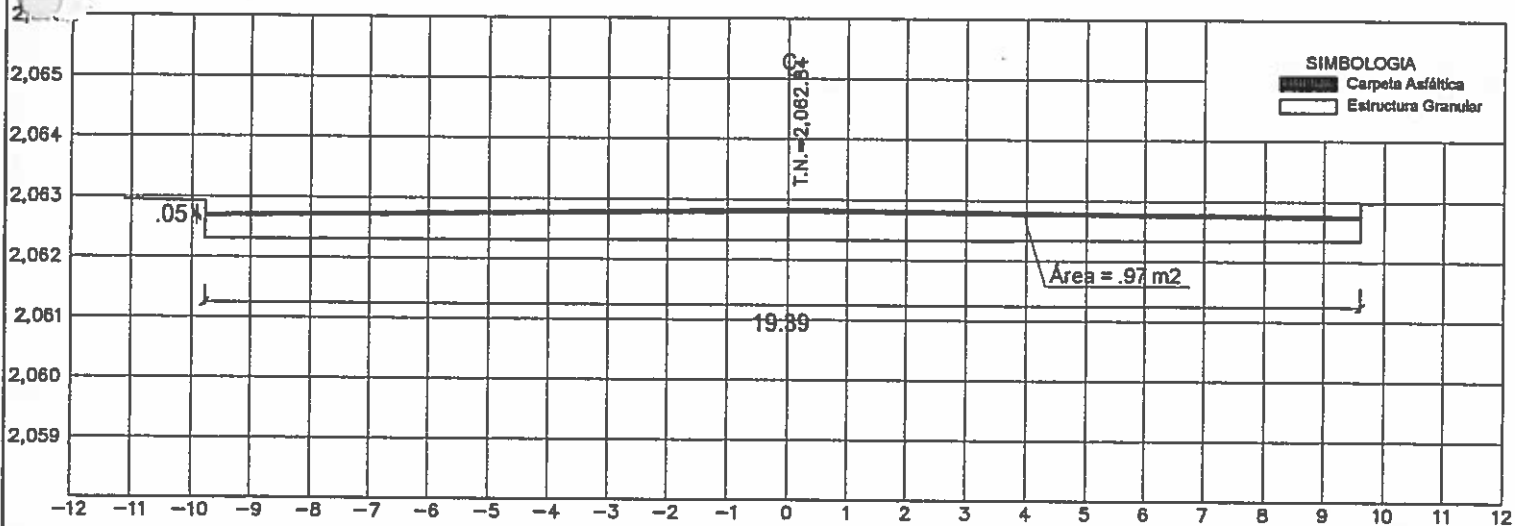


ESTACION 0+037.75

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100

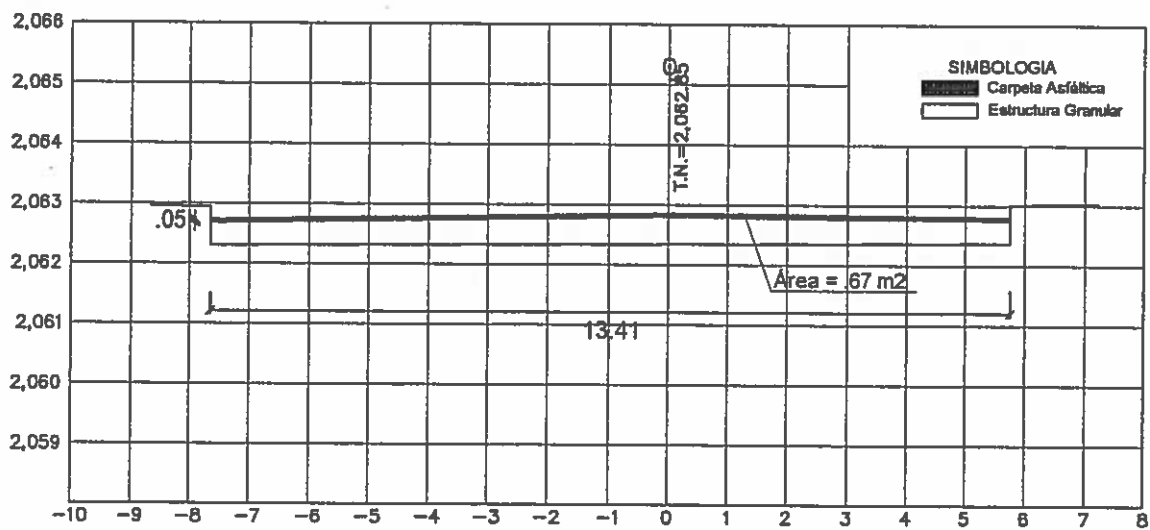
C/ JOSE ANTONIO EGUIGUREN DESDE AV. 24 DE MAYO HASTA BUSTAMANTE



ESTACION 0+003.67

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100



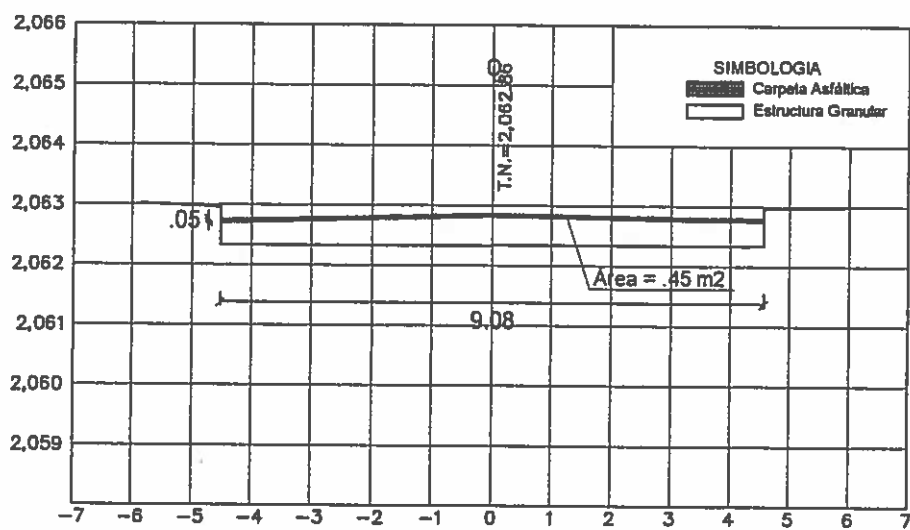
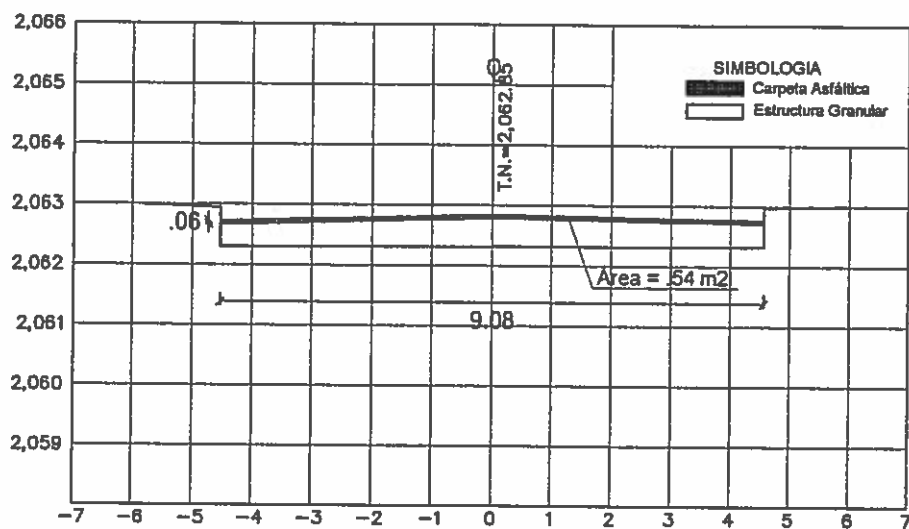
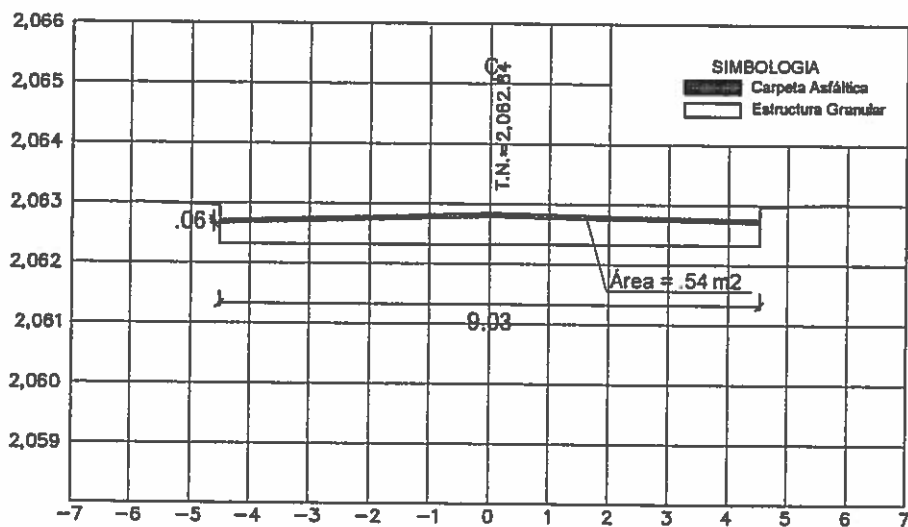
ESTACION 0+005.69

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100

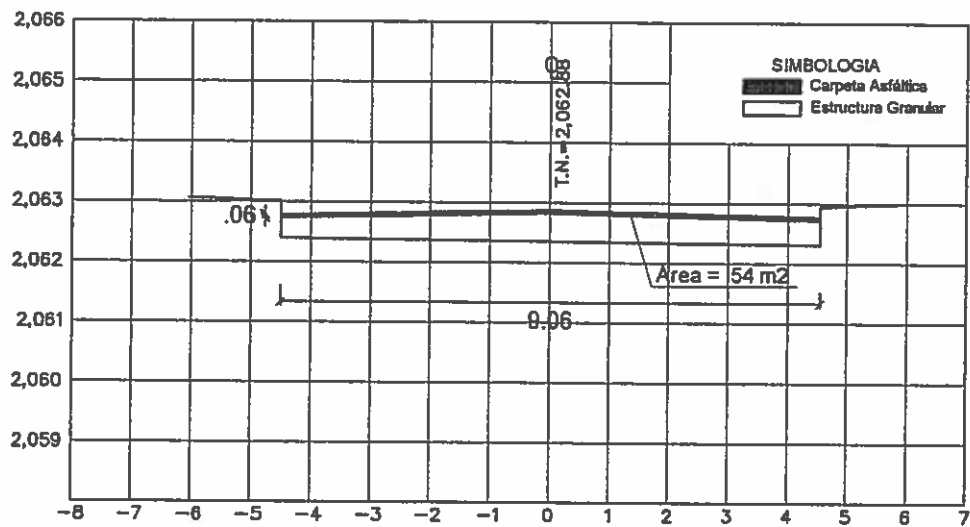
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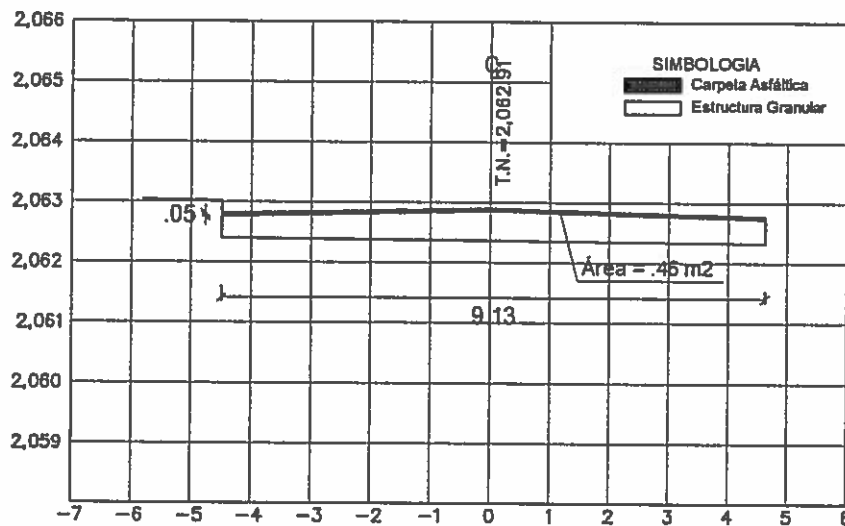


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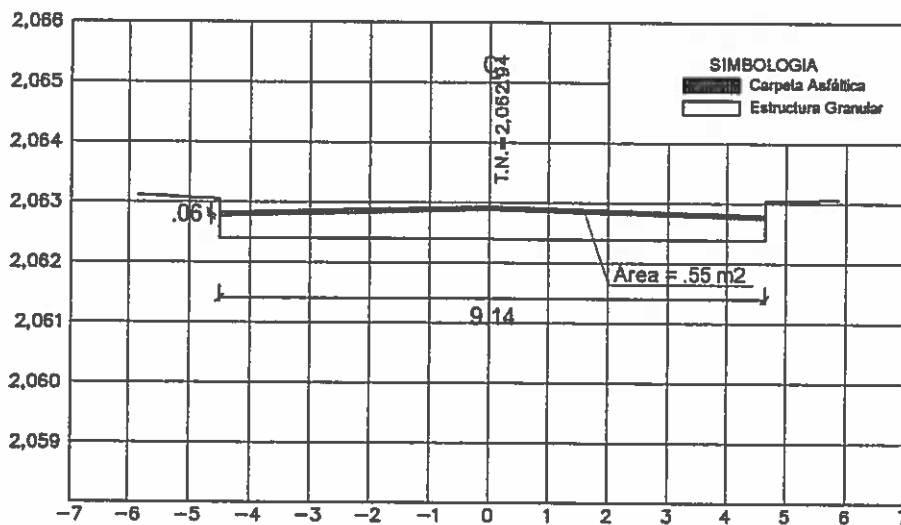
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ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

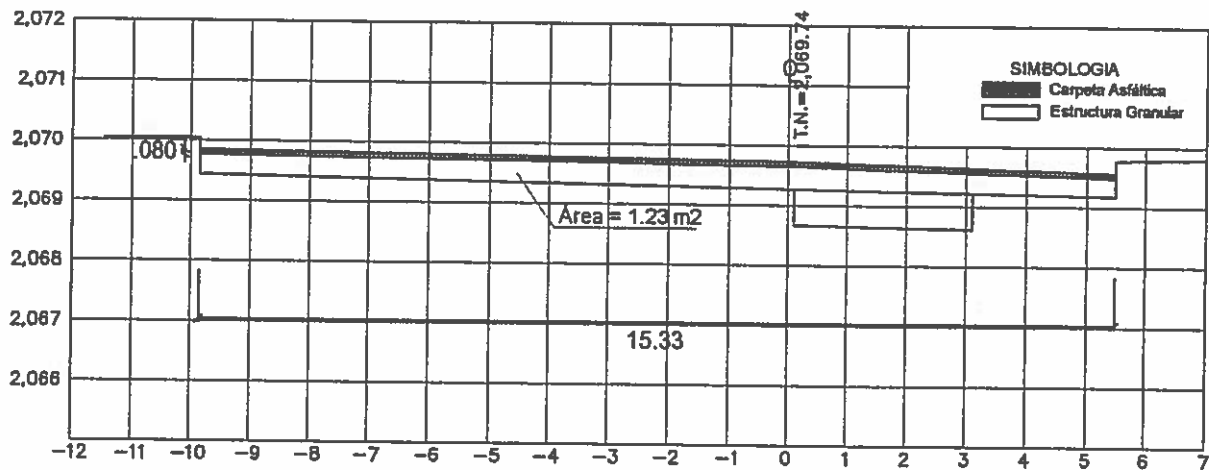


ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



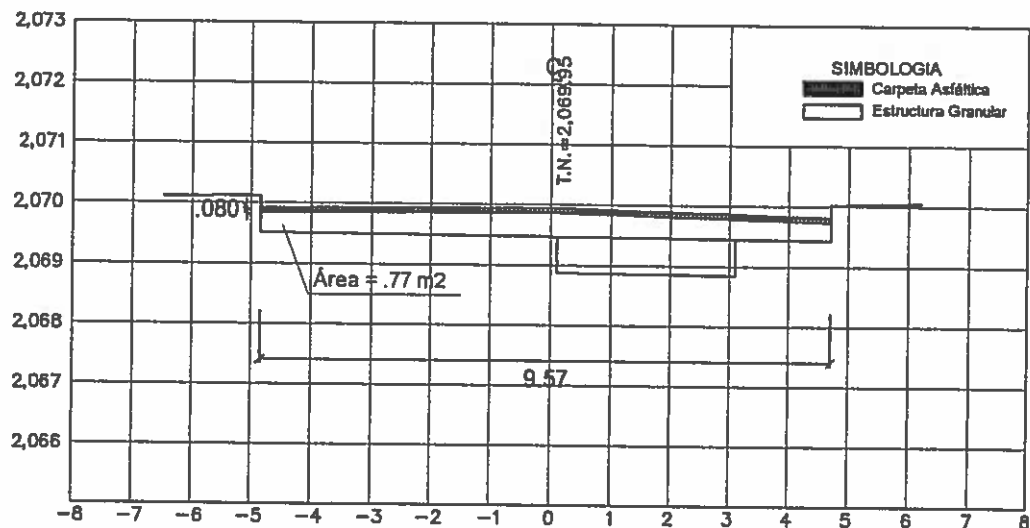
ESTACION 0+057.30
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

C/ AZUAY DESDE AV. EMILIANO ORTEGA HASTA MACARA



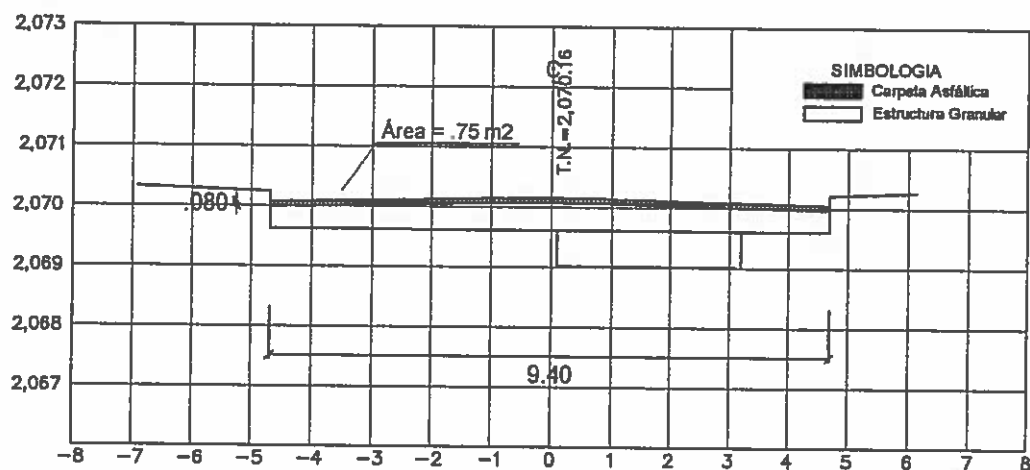
ESTACION 0+010.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



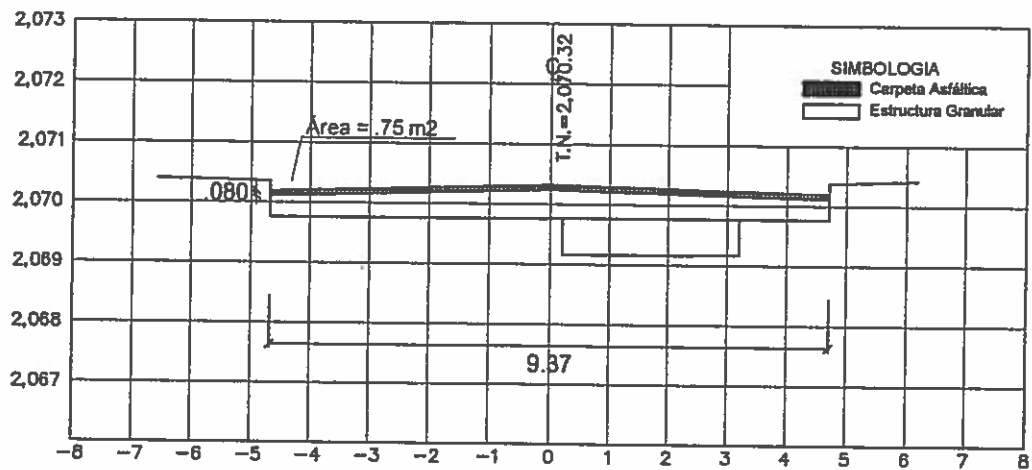
ESTACION 0+020.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

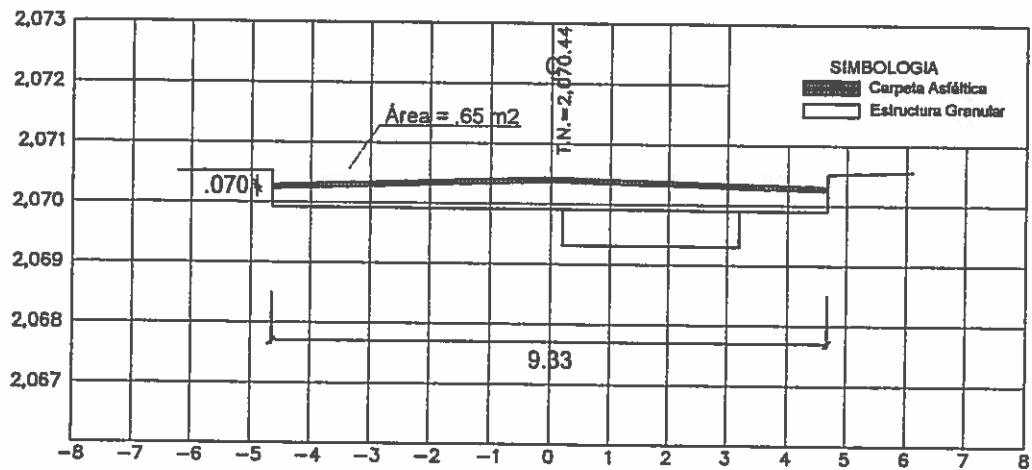


ESTACION 0+030.00

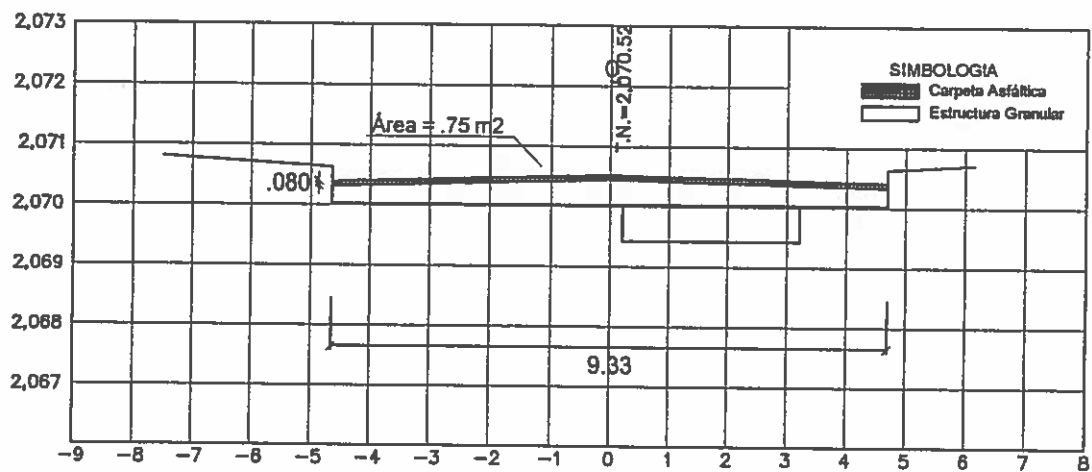
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



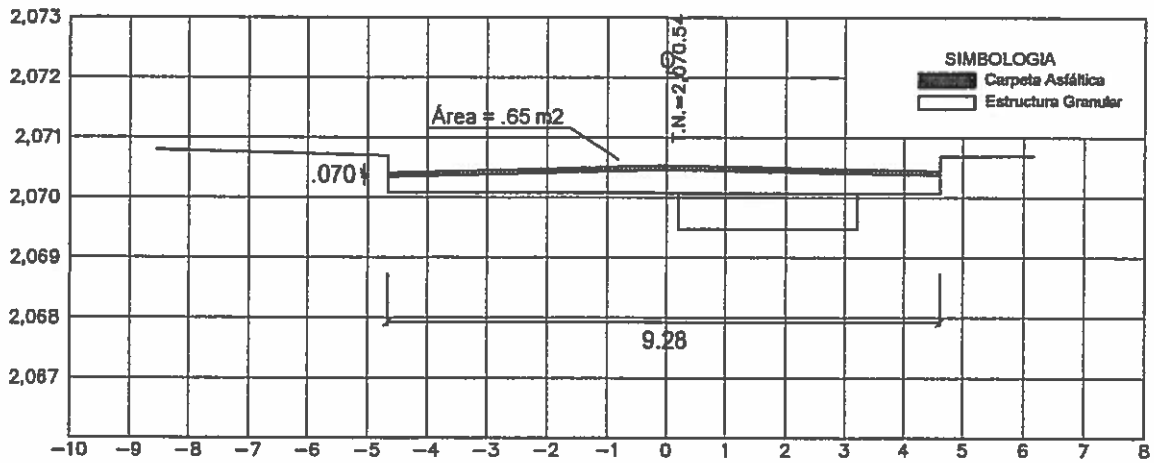
ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



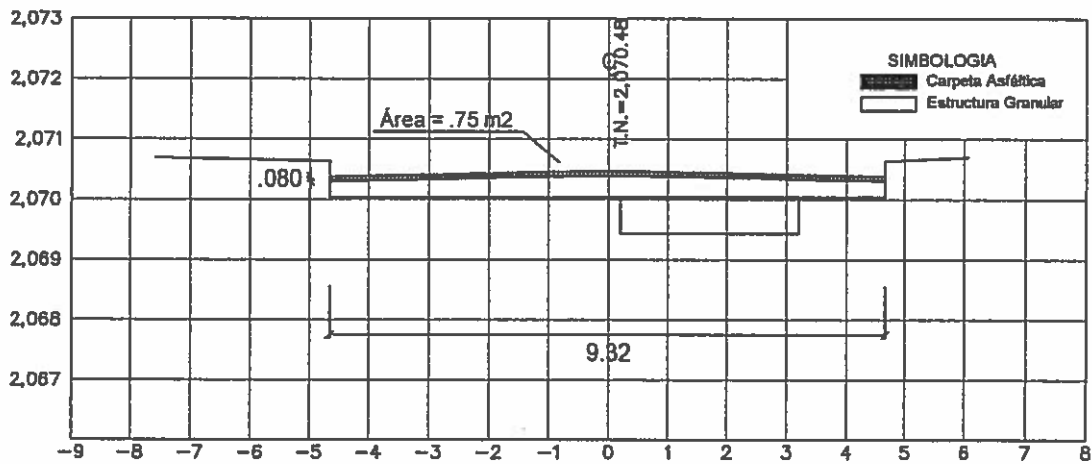
ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



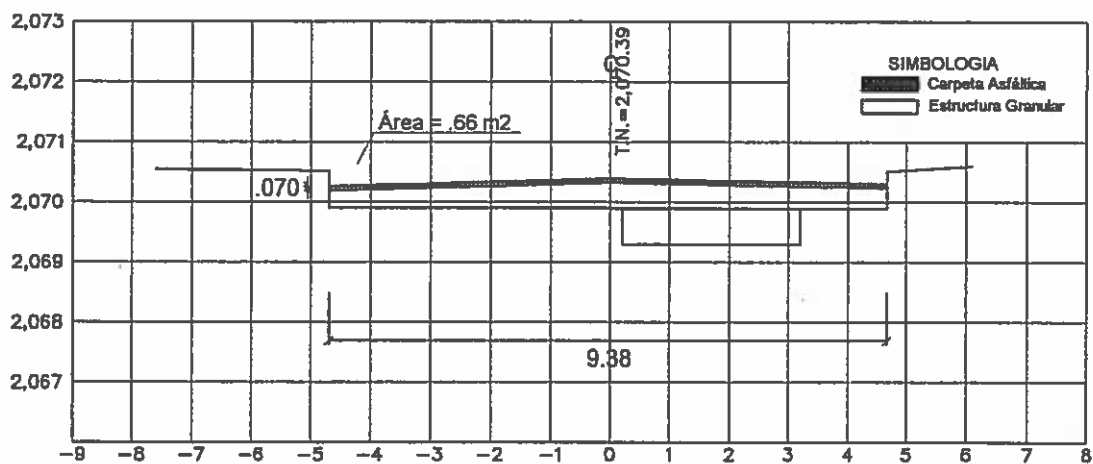
ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+070.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

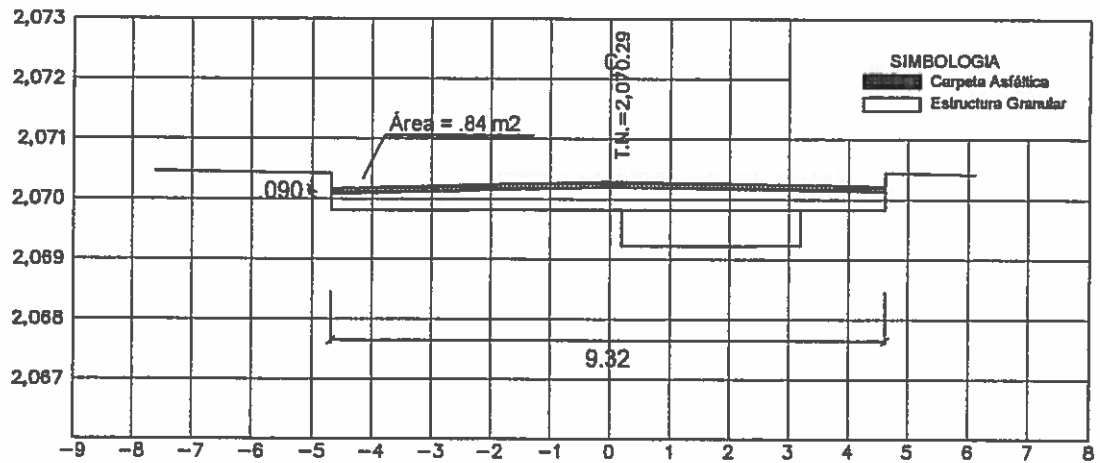


ESTACION 0+080.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

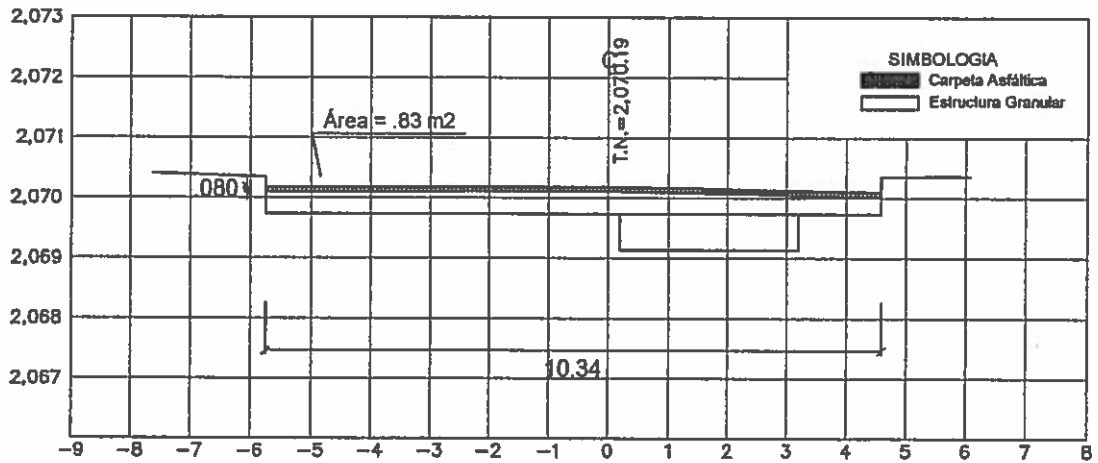


ESTACION 0+090.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

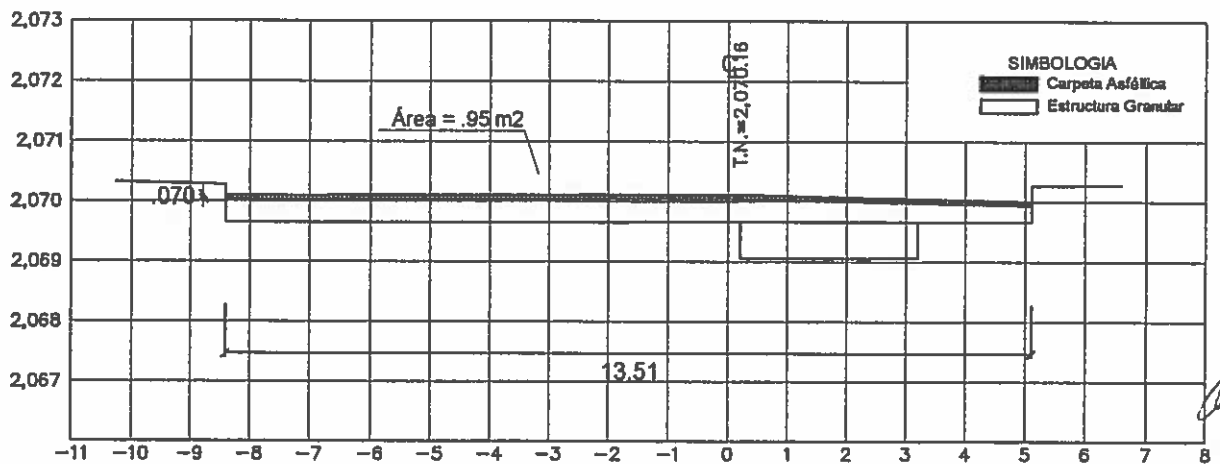
4



ESTACION 0+100.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



ESTACION 0+110.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



ESTACION 0+113.70
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

RU003 Demolición de pavimento de hormigón simple, inc. cargada para desalojo

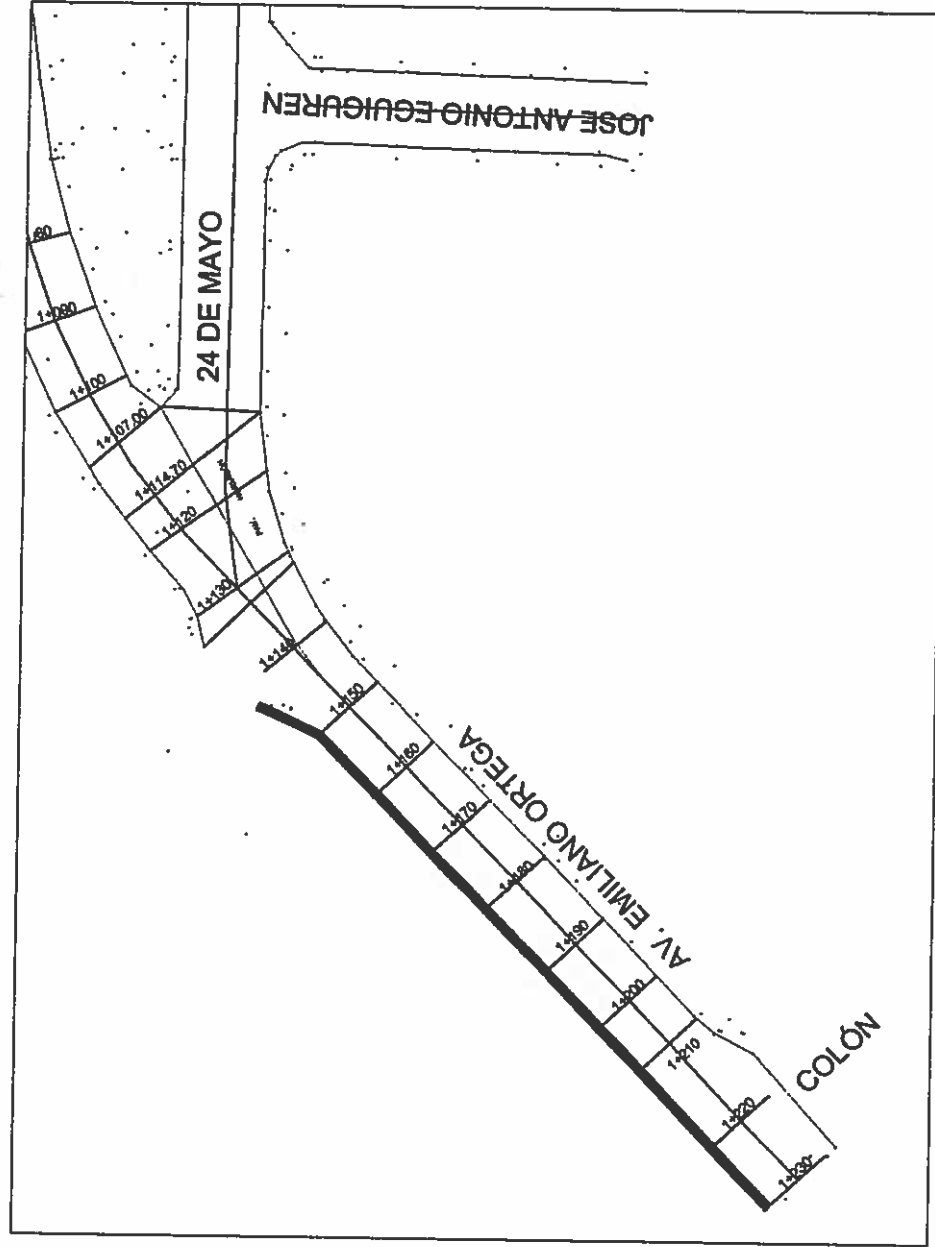
| ABSCISAS 1+107.00 - | | | | 1+230.00 | | AV. E. ORTEGA ENTRE 24 DE MAYO Y COLON | |
|---------------------|----------|-------|---------|----------|---------|--|---------------------------|
| ABSCISAS | LONGITUD | ANCHO | ESPESOR | AREA | VOLUMEN | VOLUMEN | OBSERVACIONES |
| | (m) | (m) | (m) | (m2) | (m3) | ACUMULADO | |
| 1+107.00 | | 0.00 | 0.21 | 0.00 | | | |
| 1+114.70 | 7.70 | 10.42 | 0.21 | 2.19 | 8.42 | 8.42 | Media Vía, lado izquierdo |
| 1+120.00 | 5.30 | 7.49 | 0.21 | 1.57 | 9.97 | 18.39 | Media Vía, lado izquierdo |
| 1+130.00 | 10.00 | 4.35 | 0.21 | 0.91 | 12.43 | 30.82 | Media Vía, lado izquierdo |
| 1+132.40 | 2.40 | 4.76 | 0.21 | 1.00 | 2.30 | 33.12 | Media Vía, lado izquierdo |
| 1+140.00 | 7.60 | 4.55 | 0.21 | 0.96 | 7.43 | 40.55 | Media Vía, lado izquierdo |
| 1+150.00 | 10.00 | 4.53 | 0.21 | 0.95 | 9.53 | 50.08 | Media Vía, lado izquierdo |
| 1+160.00 | 10.00 | 4.50 | 0.21 | 0.95 | 9.48 | 59.56 | Media Vía, lado izquierdo |
| 1+170.00 | 10.00 | 4.54 | 0.21 | 0.95 | 9.49 | 69.05 | Media Vía, lado izquierdo |
| 1+180.00 | 10.00 | 4.54 | 0.21 | 0.95 | 9.53 | 78.58 | Media Vía, lado izquierdo |
| 1+190.00 | 10.00 | 4.60 | 0.21 | 0.97 | 9.60 | 88.18 | Media Vía, lado izquierdo |
| 1+200.00 | 10.00 | 4.49 | 0.21 | 0.94 | 9.54 | 97.72 | Media Vía, lado izquierdo |
| 1+210.00 | 10.00 | 4.93 | 0.21 | 1.04 | 9.89 | 107.61 | Media Vía, lado izquierdo |
| 1+220.00 | 10.00 | 6.51 | 0.21 | 1.37 | 12.01 | 119.62 | Media Vía, lado izquierdo |
| 1+230.00 | 10.00 | 4.59 | 0.21 | 0.96 | 11.66 | 131.28 | Media Vía, lado izquierdo |
| | | | | TOTAL : | 131.28 | m³. | |

| ABSCISAS 0+020.00 - | | | | 0+070.00 | | AV. 24 DE MAYO ENTRE AV. E. ORTEGA Y J. A. EGUIGUREN | |
|---------------------|----------|-------|---------|----------|---------|--|--------------------------|
| ABSCISAS | LONGITUD | ANCHO | ESPESOR | AREA | VOLUMEN | VOLUMEN | OBSERVACIONES |
| | (m) | (m) | (m) | (m2) | (m3) | ACUMULADO | |
| 0+020.00 | | 12.14 | 0.22 | 2.67 | | | |
| 0+030.00 | 10.00 | 10.10 | 0.22 | 2.22 | 24.46 | 24.46 | Todo el ancho de calzada |
| 0+040.00 | 10.00 | 10.13 | 0.22 | 2.23 | 22.25 | 46.71 | Todo el ancho de calzada |
| 0+050.00 | 10.00 | 10.52 | 0.22 | 2.31 | 22.72 | 69.43 | Todo el ancho de calzada |
| 0+060.00 | 10.00 | 10.55 | 0.22 | 2.32 | 23.18 | 92.61 | Todo el ancho de calzada |
| 0+070.00 | 10.00 | 10.10 | 0.22 | 2.22 | 22.72 | 115.33 | Todo el ancho de calzada |
| | | | | TOTAL : | 115.33 | m³. | |

4

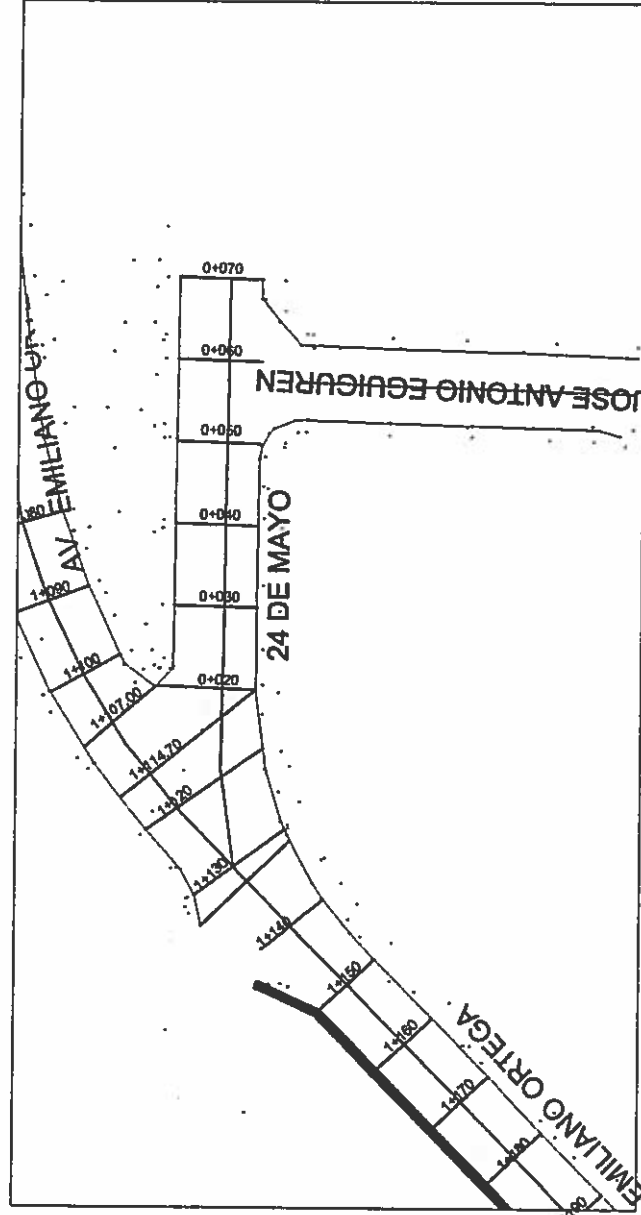
AV. EMILIANO ORTEGA DESDE 24 MAYO HASTA COLÓN (1+107.00 - 1+230.00)

TRAMO: 24 DE MAYO - COLÓN



+

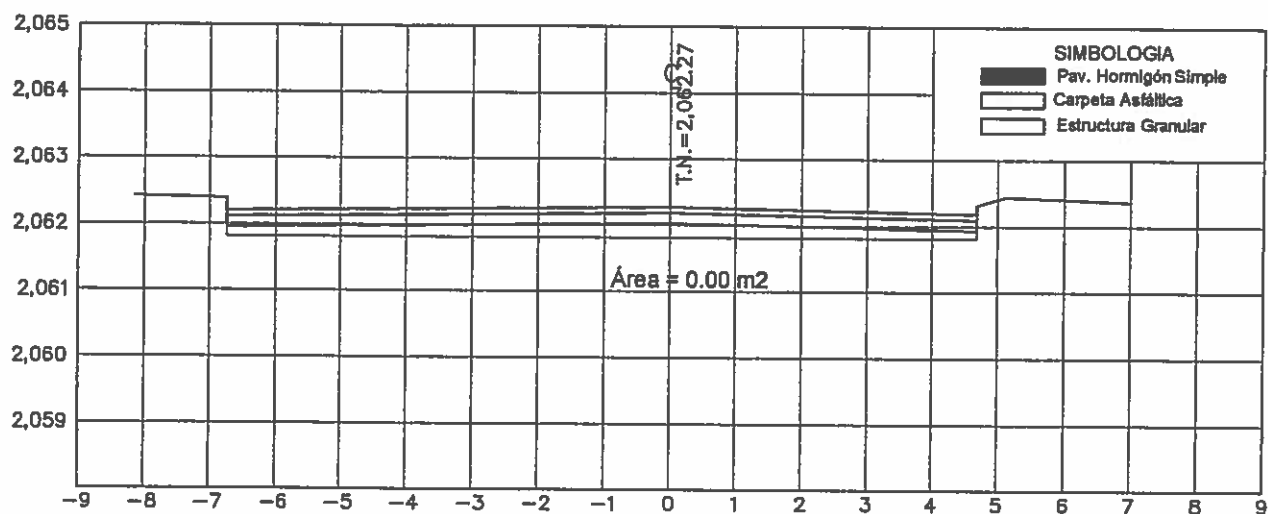
TRAMO: AV. E. ORTEGA - J. A. EGUIGUREN



4

RU0003 DEMOLICIÓN DE PAVIMENTO DE HORMIGÓN

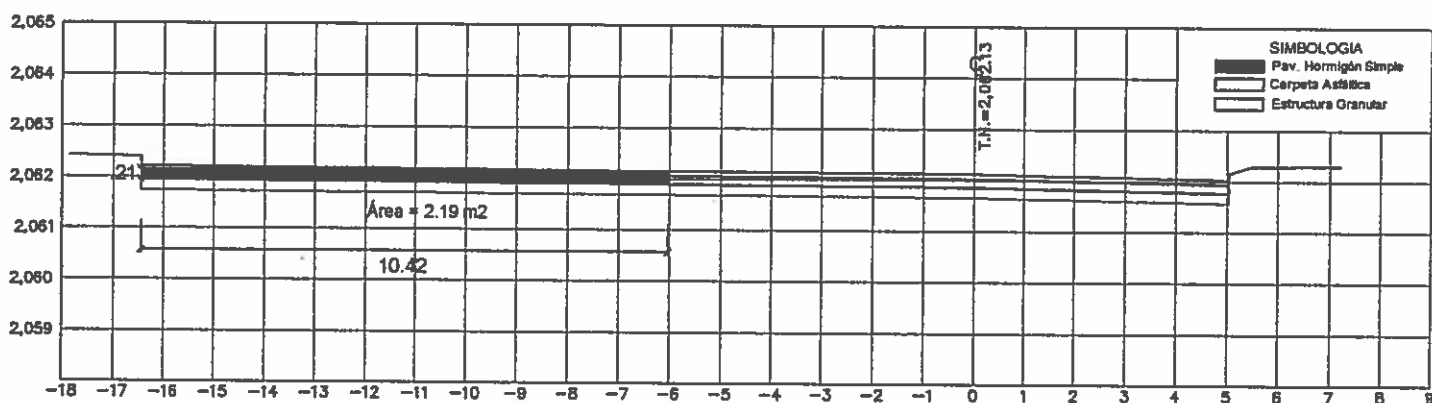
AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA ROCAFUERTE



ESTACION 1+107.00

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100

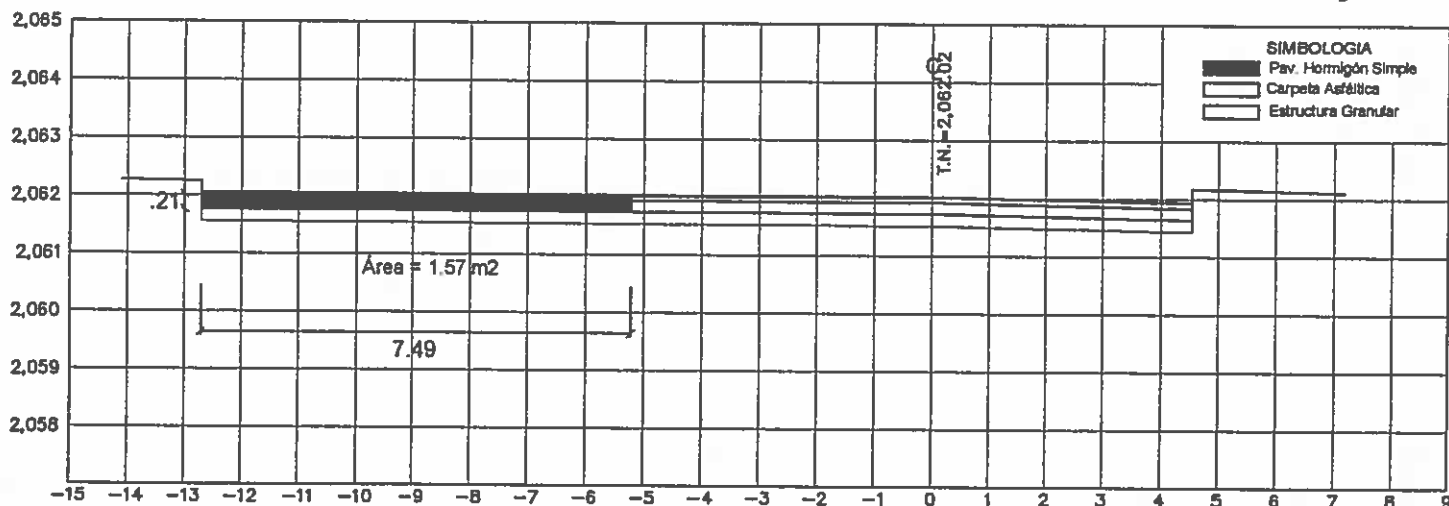


ESTACION 1+114.70

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100

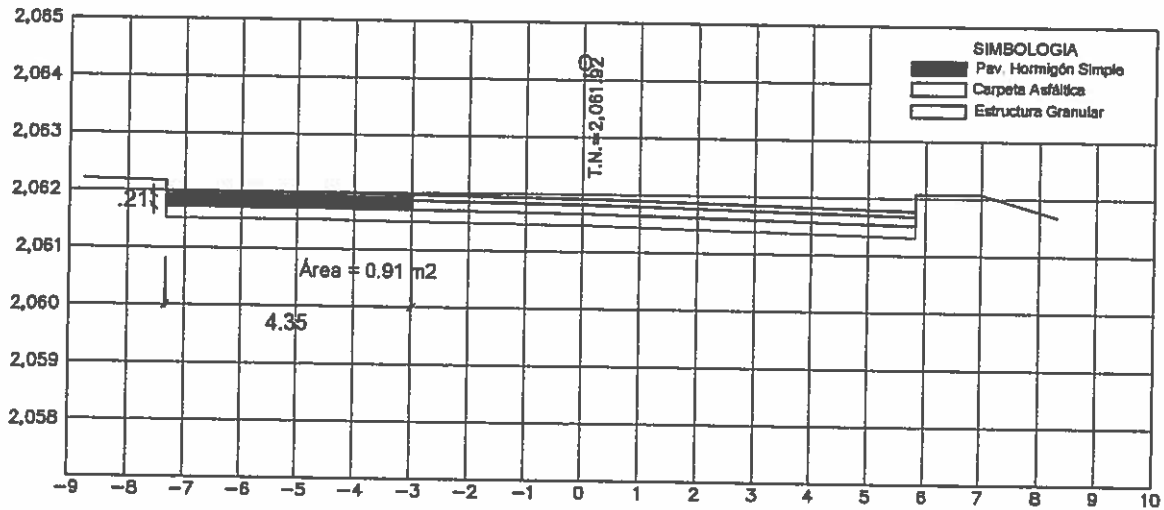
Handwritten signature



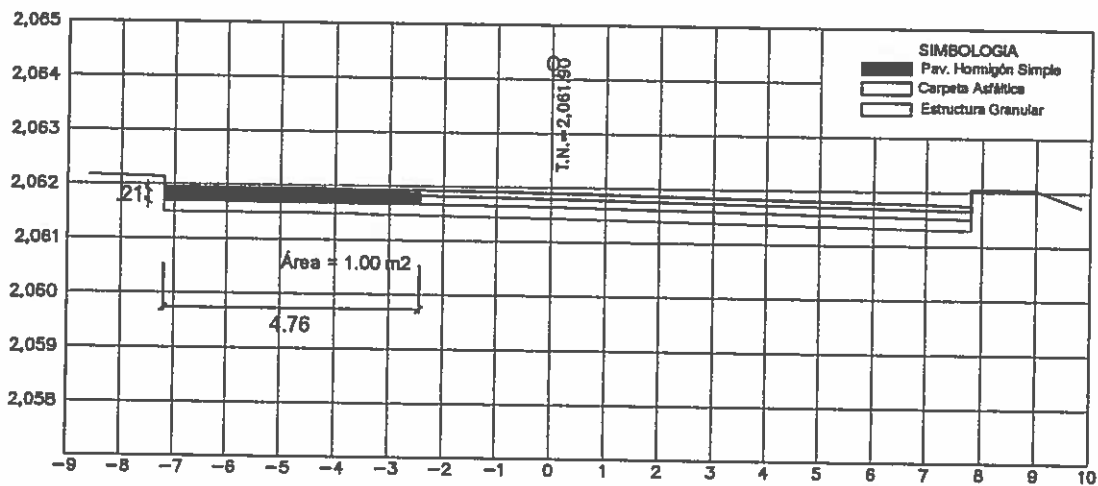
ESTACION 1+120.00

ESCALA HORIZONTAL 1 : 100

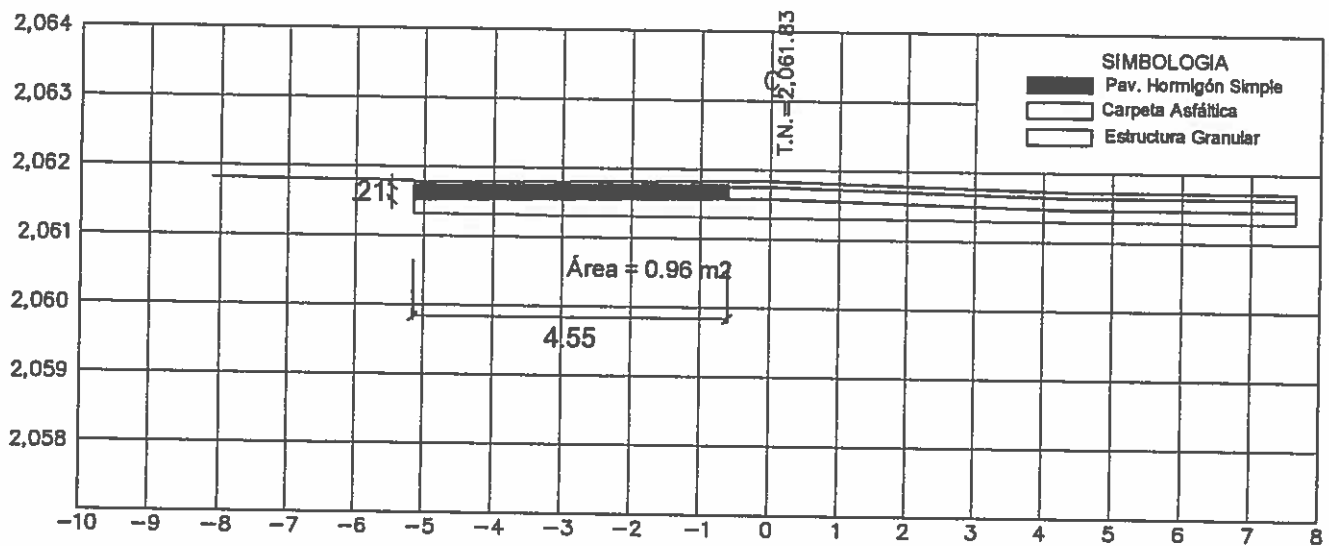
ESCALA VERTICAL 1 : 100



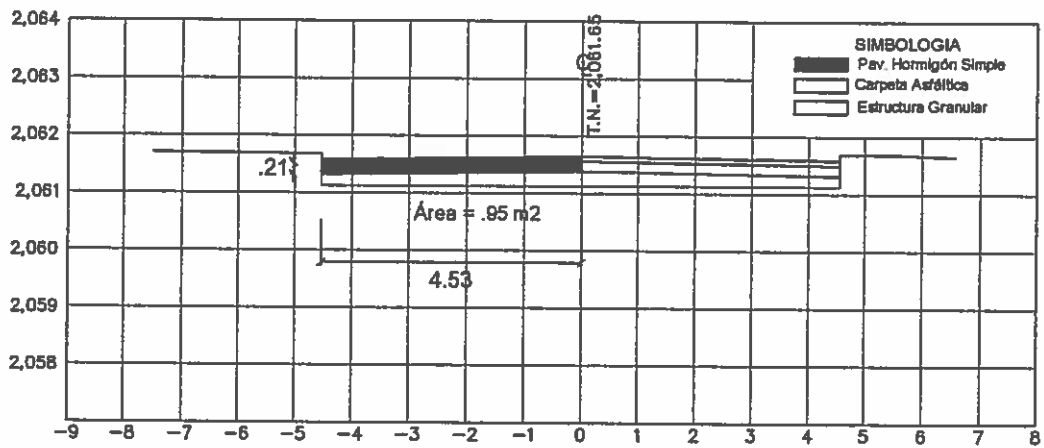
ESTACION 1+130.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



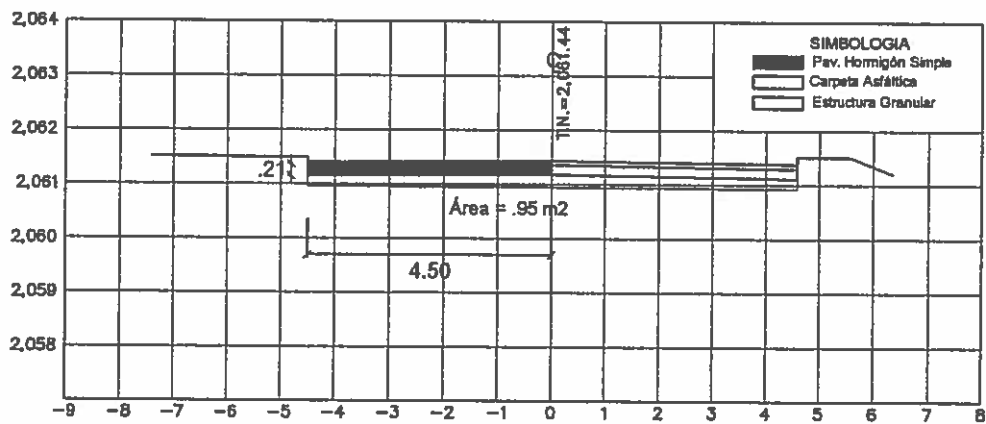
ESTACION 1+132.40
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



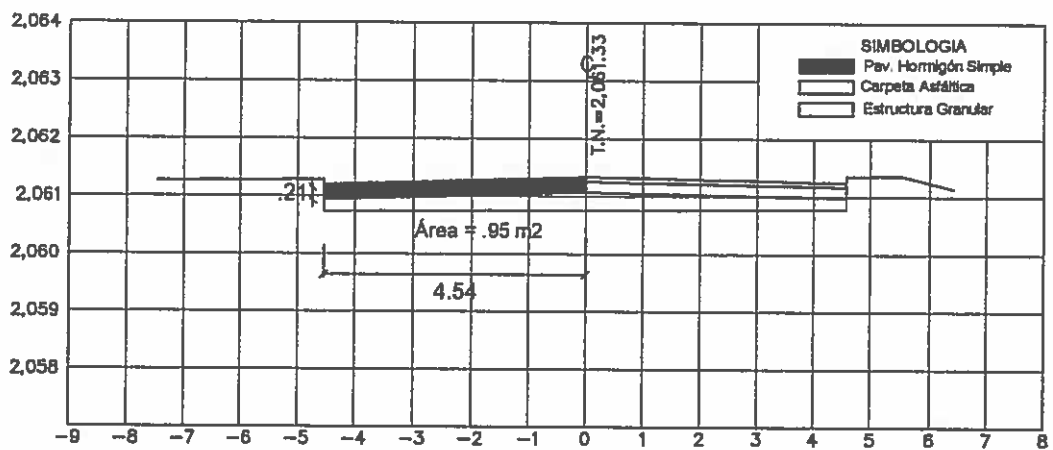
ESTACION 1+140.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



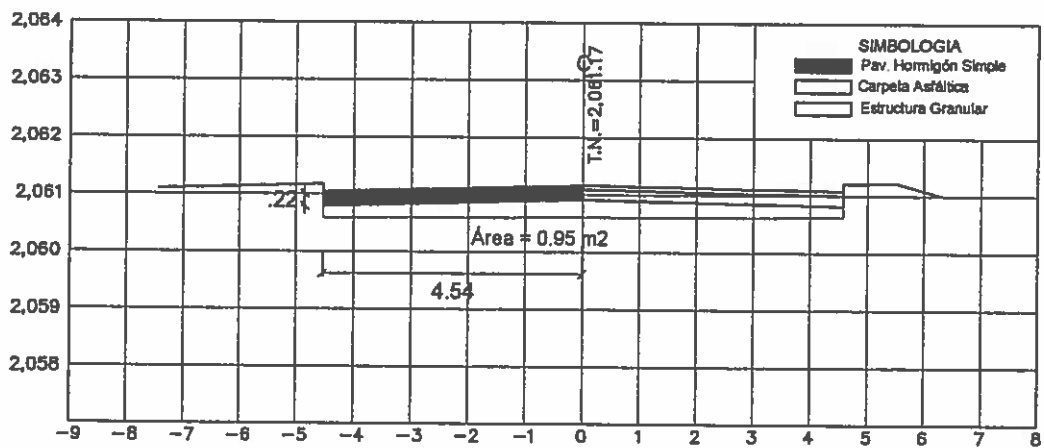
ESTACION 1+150.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



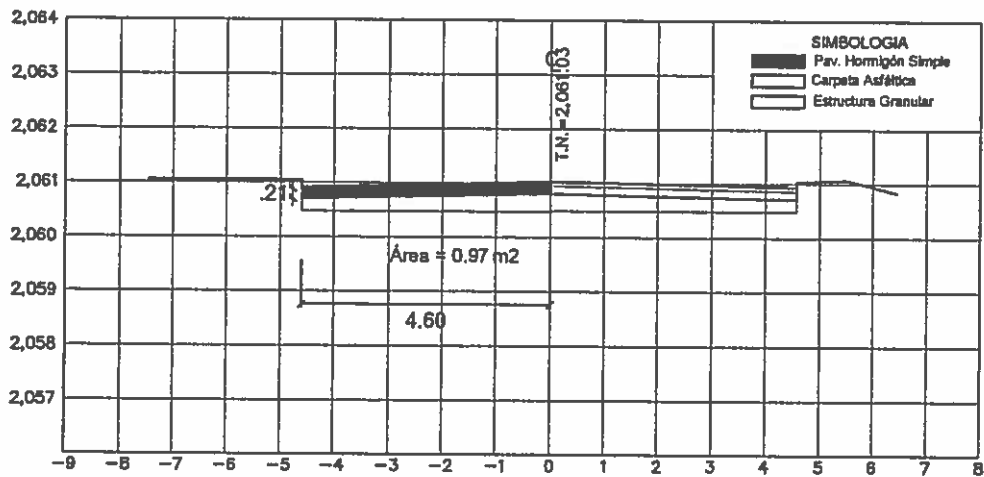
ESTACION 1+160.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



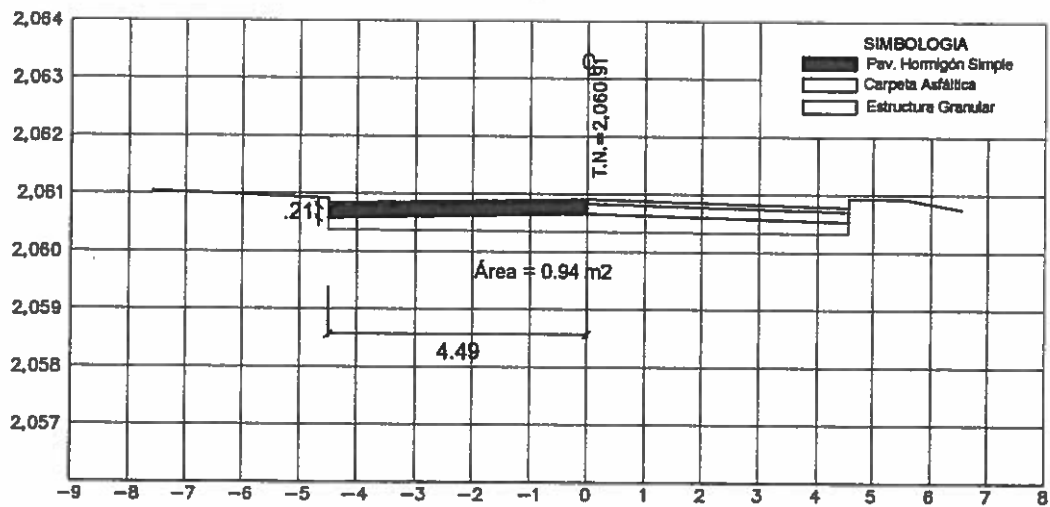
ESTACION 1+170.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



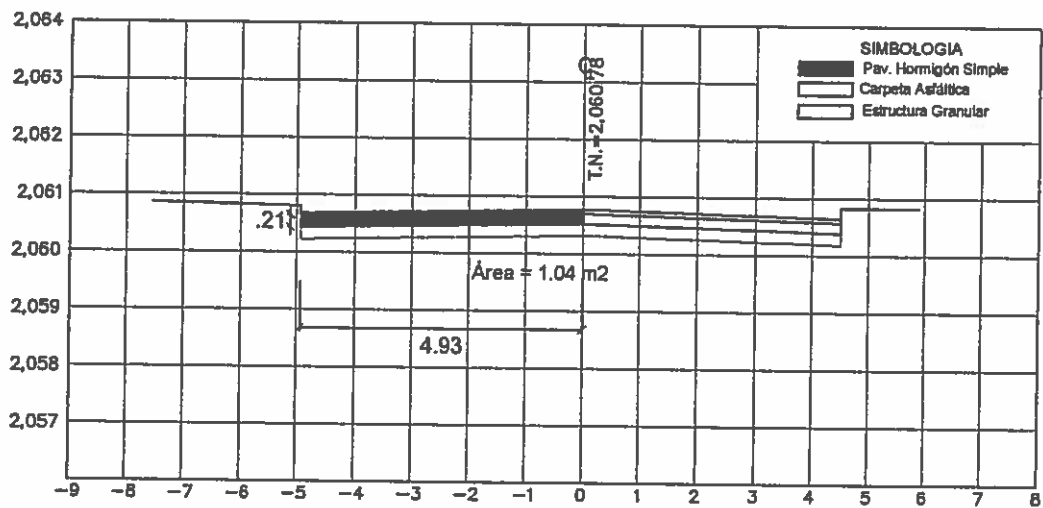
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 ESCALA VERTICAL 1 : 100



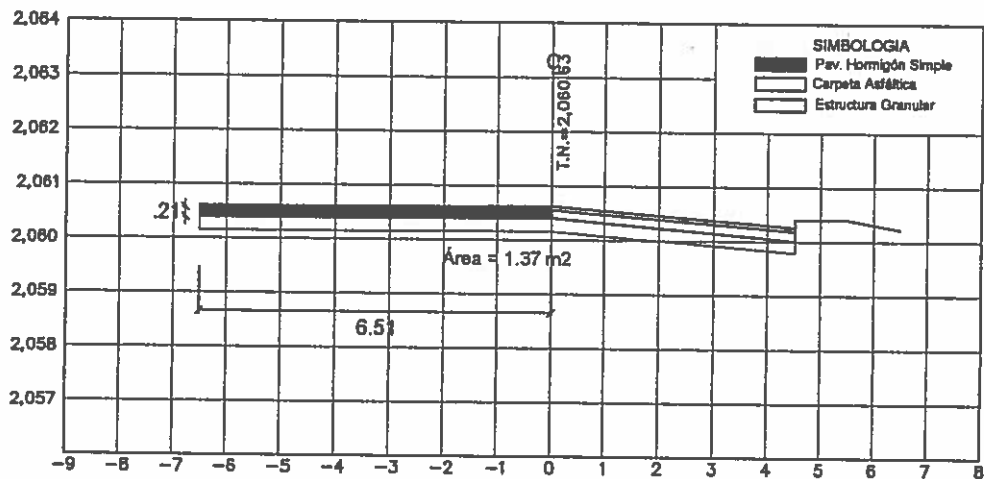
ESTACION 1+190.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



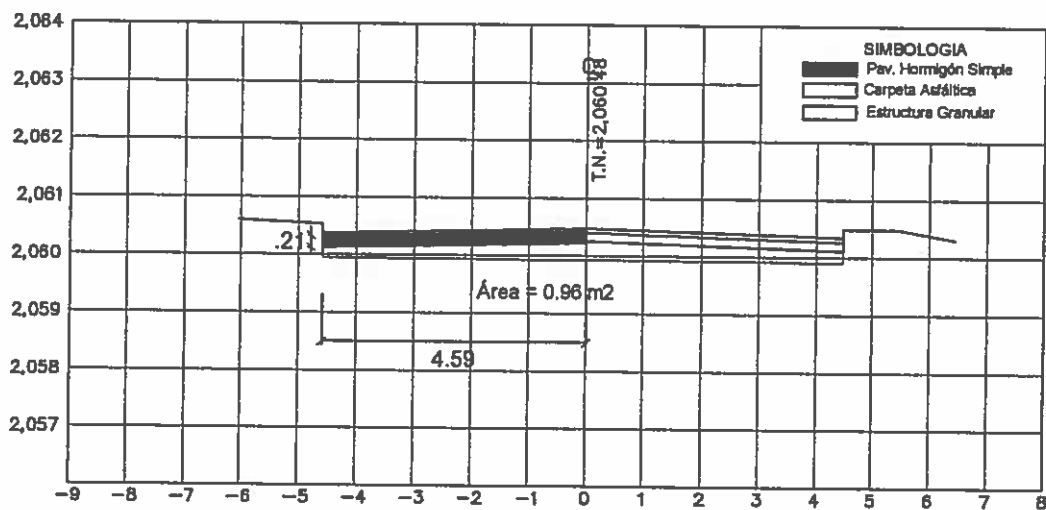
ESTACION 1+200.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 1+210.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

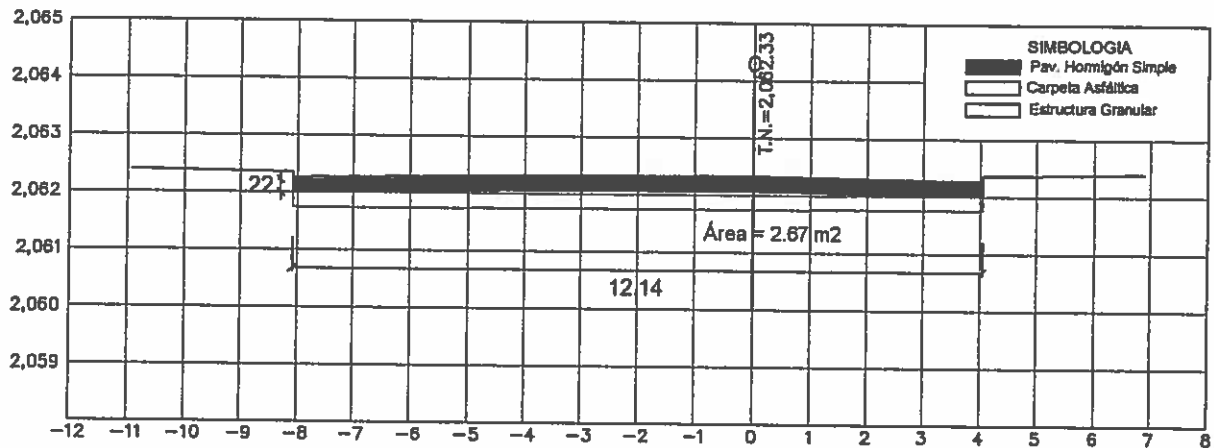


ESTACION 1+220.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

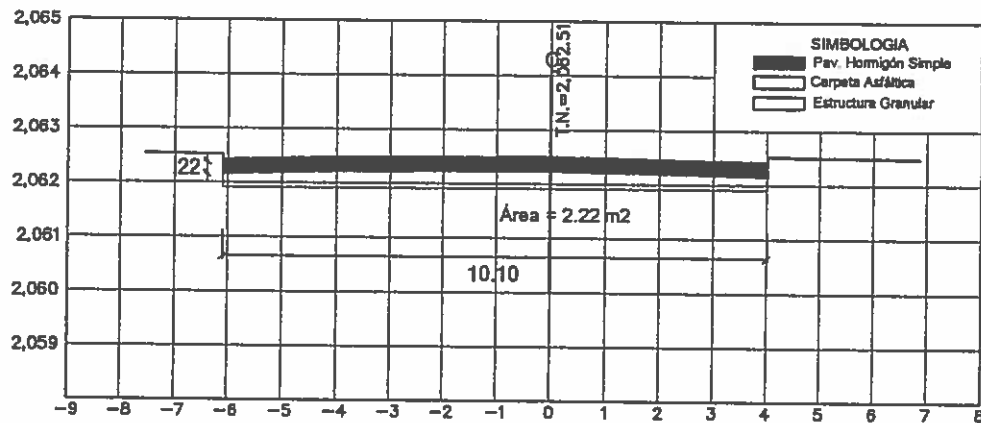


ESTACION 1+230.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

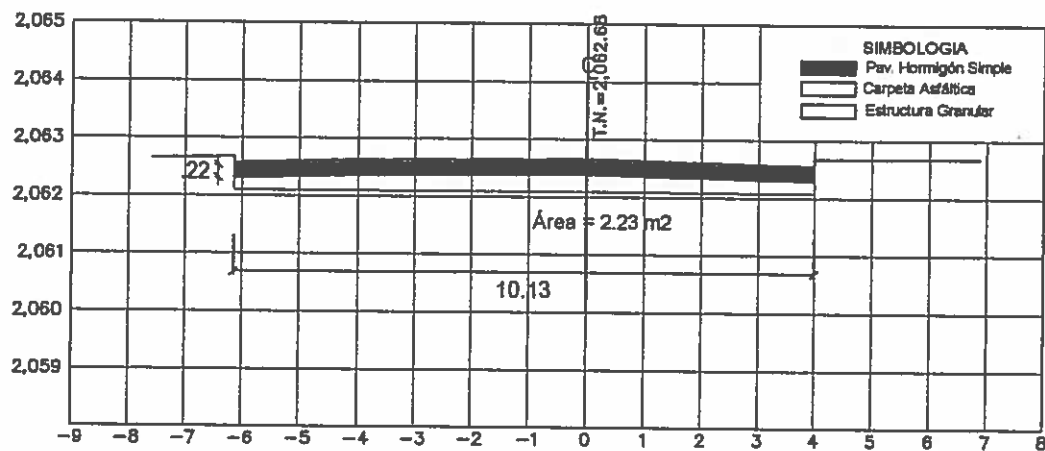
AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLÓN



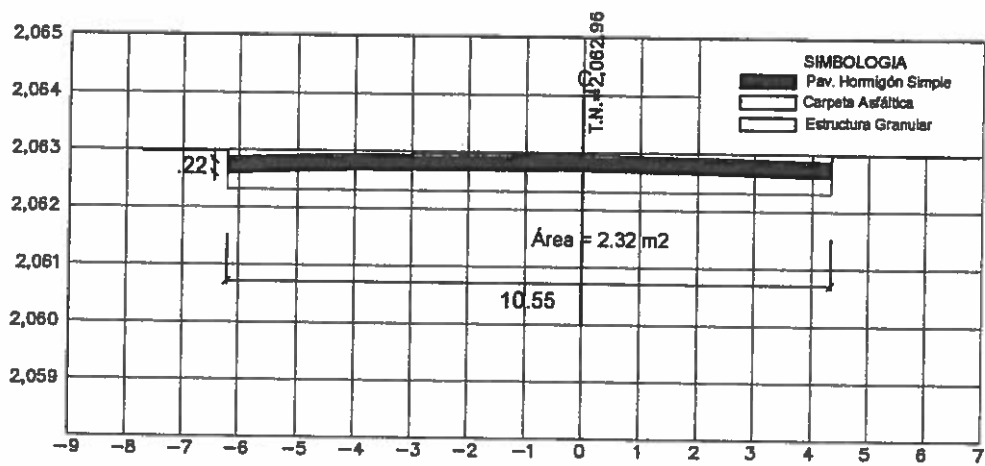
ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



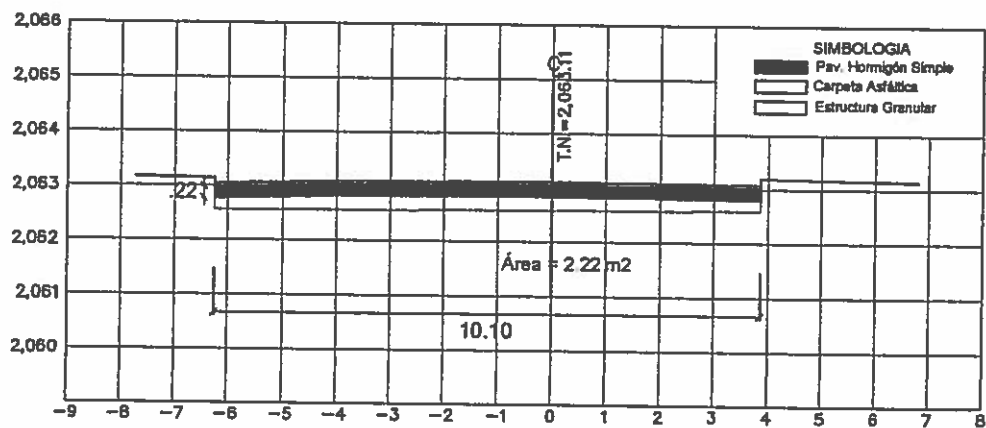
ESTACION 0+030.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+070.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

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CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 402

CAPITULO: REGENERACIÓN URBANA
SUBCAPITULO: REPAVIMENTACIÓN

RU004 Excavación a máquina sin clasificar

UNIDAD: m³

[illegible]

| | | |
|---------------|-----------------|-----------|
| TOTAL= | 7 445.35 | M3 |
|---------------|-----------------|-----------|

ING. CLAY SAMENIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015

ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

RU004 Excavación a máquina sin clasificar

AV. EMILIANO ORTEGA DESDE M. HIDALGO HASTA
ROCAFUERTE

ABSCISAS 0+110.00 - 0+860.00

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|-----------------|--------------|----------------|--------------|-----------------|----------------------|---------------|
| 0+110.00 | | 13.73 | 0.419 | 5.75 | | | |
| 0+120.00 | 10.00 | 13.06 | 0.405 | 5.29 | 55.21 | 55.21 | |
| 0+130.00 | 10.00 | 11.94 | 0.410 | 4.90 | 50.92 | 106.13 | |
| 0+140.00 | 10.00 | 11.38 | 0.436 | 4.96 | 49.29 | 155.42 | |
| 0+150.00 | 10.00 | 10.96 | 0.454 | 4.98 | 49.69 | 205.11 | |
| 0+160.00 | 10.00 | 9.78 | 0.383 | 3.75 | 43.61 | 248.72 | |
| 0+170.00 | 10.00 | 9.68 | 0.386 | 3.74 | 37.41 | 286.13 | |
| 0+180.00 | 10.00 | 9.11 | 0.456 | 4.15 | 39.45 | 325.58 | |
| 0+190.00 | 10.00 | 9.06 | 0.435 | 3.94 | 40.48 | 366.06 | |
| 0+200.00 | 10.00 | 9.04 | 0.393 | 3.55 | 37.47 | 403.53 | |
| 0+210.00 | 10.00 | 8.97 | 0.416 | 3.73 | 36.42 | 439.95 | |
| 0+220.00 | 10.00 | 8.96 | 0.404 | 3.62 | 36.76 | 476.71 | |
| 0+230.00 | 10.00 | 9.16 | 0.397 | 3.64 | 36.28 | 512.99 | |
| 0+240.00 | 10.00 | 8.99 | 0.388 | 3.49 | 35.62 | 548.61 | |
| 0+250.00 | 10.00 | 9.00 | 0.363 | 3.27 | 33.78 | 582.39 | |
| 0+260.00 | 10.00 | 9.00 | 0.547 | 4.92 | 40.95 | 623.34 | |
| 0+270.00 | 10.00 | 8.98 | 0.415 | 3.73 | 43.25 | 666.59 | |
| 0+280.00 | 10.00 | 8.93 | 0.383 | 3.42 | 35.73 | 702.32 | |
| 0+290.00 | 10.00 | 10.30 | 0.416 | 4.28 | 38.52 | 740.84 | |
| 0+300.00 | 10.00 | 9.00 | 0.377 | 3.39 | 38.39 | 779.23 | |
| 0+310.00 | 10.00 | 9.28 | 0.322 | 2.99 | 31.90 | 811.13 | |
| 0+320.00 | 10.00 | 9.13 | 0.386 | 3.52 | 32.56 | 843.69 | |
| 0+330.00 | 10.00 | 10.46 | 0.431 | 4.51 | 40.16 | 883.85 | |
| 0+345.95 | 15.95 | 13.49 | 0.423 | 5.71 | 81.46 | 965.31 | |
| 0+350.00 | 4.05 | 8.98 | 0.418 | 3.75 | 19.16 | 984.47 | |
| 0+360.00 | 10.00 | 13.93 | 0.396 | 5.52 | 46.35 | 1 030.82 | |
| 0+365.00 | 5.00 | 13.27 | 0.384 | 5.10 | 26.53 | 1 057.35 | |
| 0+370.00 | 5.00 | 13.87 | 0.378 | 5.24 | 25.85 | 1 083.20 | |
| 0+380.00 | 10.00 | 13.76 | 0.391 | 5.38 | 53.12 | 1 136.32 | |
| 0+390.00 | 10.00 | 13.68 | 0.379 | 5.18 | 52.82 | 1 189.14 | |
| 0+400.00 | 10.00 | 13.48 | 0.385 | 5.19 | 51.87 | 1 241.01 | |
| 0+402.50 | 2.50 | 13.48 | 0.390 | 5.26 | 13.06 | 1 254.07 | |
| 0+405.00 | 2.50 | 9.06 | 0.376 | 3.41 | 10.83 | 1 264.90 | |
| 0+410.00 | 5.00 | 9.06 | 0.376 | 3.41 | 17.03 | 1 281.93 | |
| 0+420.00 | 10.00 | 9.06 | 0.385 | 3.49 | 34.47 | 1 316.40 | |
| 0+430.00 | 10.00 | 9.09 | 0.375 | 3.41 | 34.48 | 1 350.88 | |
| 0+440.00 | 10.00 | 8.90 | 0.396 | 3.52 | 34.67 | 1 385.55 | |
| 0+450.00 | 10.00 | 9.03 | 0.382 | 3.45 | 34.87 | 1 420.42 | |
| 0+460.00 | 10.00 | 9.07 | 0.371 | 3.36 | 34.07 | 1 454.49 | |
| 0+470.00 | 10.00 | 8.97 | 0.387 | 3.47 | 34.18 | 1 488.67 | |
| 0+480.00 | 10.00 | 9.21 | 0.389 | 3.58 | 35.27 | 1 523.94 | |
| 0+490.00 | 10.00 | 9.16 | 0.415 | 3.80 | 36.92 | 1 560.86 | |
| 0+500.00 | 10.00 | 9.21 | 0.414 | 3.81 | 38.07 | 1 598.93 | |
| 0+510.00 | 10.00 | 9.10 | 0.413 | 3.76 | 37.86 | 1 636.79 | |
| 0+520.00 | 10.00 | 9.08 | 0.422 | 3.83 | 37.95 | 1 674.74 | |
| 0+530.00 | 10.00 | 9.08 | 0.383 | 3.48 | 36.55 | 1 711.29 | |
| 0+540.00 | 10.00 | 9.00 | 0.379 | 3.41 | 34.44 | 1 745.73 | |
| 0+550.00 | 10.00 | 8.97 | 0.363 | 3.26 | 33.34 | 1 779.07 | |
| 0+560.00 | 10.00 | 10.86 | 0.378 | 4.11 | 36.81 | 1 815.88 | |
| 0+570.00 | 10.00 | 14.42 | 0.391 | 5.64 | 48.72 | 1 864.60 | |
| 0+580.00 | 10.00 | 14.11 | 0.399 | 5.63 | 56.34 | 1 920.94 | |
| 0+590.00 | 10.00 | 9.07 | 0.410 | 3.72 | 46.74 | 1 967.68 | |
| 0+600.00 | 10.00 | 9.09 | 0.392 | 3.56 | 36.41 | 2 004.09 | |
| 0+610.00 | 10.00 | 9.10 | 0.387 | 3.52 | 35.42 | 2 039.51 | |
| 0+620.00 | 10.00 | 9.15 | 0.438 | 4.01 | 37.65 | 2 077.16 | |
| 0+630.00 | 10.00 | 9.14 | 0.389 | 3.56 | 37.82 | 2 114.98 | |
| 0+640.00 | 10.00 | 9.03 | 0.370 | 3.34 | 34.48 | 2 149.46 | |
| 0+650.00 | 10.00 | 9.05 | 0.369 | 3.34 | 33.40 | 2 182.86 | |
| 0+660.00 | 10.00 | 9.03 | 0.445 | 4.02 | 36.79 | 2 219.65 | |
| 0+670.00 | 10.00 | 9.00 | 0.414 | 3.73 | 38.72 | 2 258.37 | |
| 0+680.00 | 10.00 | 9.07 | 0.406 | 3.68 | 37.04 | 2 295.41 | |
| 0+690.00 | 10.00 | 9.10 | 0.416 | 3.79 | 37.34 | 2 332.75 | |
| 0+700.00 | 10.00 | 9.16 | 0.336 | 3.08 | 34.32 | 2 367.07 | |
| 0+710.00 | 10.00 | 13.51 | 0.347 | 4.69 | 38.83 | 2 405.90 | |

4

| | | | | | | | |
|----------|-------|-------|-------|------|--------------|----------|--|
| 0+720.00 | 10.00 | 9.05 | 0.322 | 2.91 | 38.01 | 2 443.91 | |
| 0+730.00 | 10.00 | 9.01 | 0.414 | 3.73 | 33.22 | 2 477.13 | |
| 0+740.00 | 10.00 | 9.05 | 0.393 | 3.56 | 36.43 | 2 513.56 | |
| 0+750.00 | 10.00 | 9.00 | 0.434 | 3.91 | 37.31 | 2 550.87 | |
| 0+760.00 | 10.00 | 9.03 | 0.409 | 3.69 | 38.00 | 2 588.87 | |
| 0+770.00 | 10.00 | 8.97 | 0.398 | 3.57 | 36.32 | 2 625.19 | |
| 0+780.00 | 10.00 | 9.01 | 0.385 | 3.47 | 35.19 | 2 660.38 | |
| 0+790.00 | 10.00 | 8.99 | 0.353 | 3.17 | 33.21 | 2 693.59 | |
| 0+800.00 | 10.00 | 8.99 | 0.380 | 3.42 | 32.95 | 2 726.54 | |
| 0+810.00 | 10.00 | 9.01 | 0.393 | 3.54 | 34.79 | 2 761.33 | |
| 0+820.00 | 10.00 | 9.06 | 0.422 | 3.82 | 36.82 | 2 798.15 | |
| 0+830.00 | 10.00 | 12.42 | 0.415 | 5.15 | 44.89 | 2 843.04 | |
| 0+840.00 | 10.00 | 15.84 | 0.392 | 6.21 | 56.82 | 2 899.86 | |
| 0+850.00 | 10.00 | 9.04 | 0.470 | 4.25 | 52.29 | 2 952.15 | |
| 0+860.00 | 10.00 | 9.04 | 0.463 | 4.19 | 42.17 | 2 994.32 | |
| TOTAL: | | | | | 2 994.32 m³. | | |

AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON

ABSCISAS 1+107.00 - 1+230.00

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|------------|--------------|-----------|-------------|-----------|--------------|-------------------|---------------|
| 1+107.00 | | 4.68 | 0.502 | 2.35 | | | |
| 1+114.70 | 7.70 | 11.06 | 0.441 | 4.88 | 27.82 | 27.82 | Lado Este |
| 1+120.00 | 5.30 | 9.77 | 0.439 | 4.29 | 24.29 | 52.11 | Lado Este |
| 1+130.00 | 10.00 | 8.83 | 0.438 | 3.87 | 40.78 | 92.89 | Lado Este |
| 1+132.40 | 2.40 | 10.24 | 0.429 | 4.39 | 9.91 | 102.80 | Lado Este |
| 1+140.00 | 7.60 | 8.23 | 0.425 | 3.50 | 29.98 | 132.78 | Lado Este |
| 1+150.00 | 10.00 | 4.56 | 0.434 | 1.98 | 27.38 | 160.16 | Lado Este |
| 1+160.00 | 10.00 | 4.59 | 0.425 | 1.95 | 19.65 | 179.81 | Lado Este |
| 1+170.00 | 10.00 | 4.57 | 0.460 | 2.10 | 20.26 | 200.07 | Lado Este |
| 1+180.00 | 10.00 | 4.56 | 0.456 | 2.08 | 20.91 | 220.98 | Lado Este |
| 1+190.00 | 10.00 | 4.56 | 0.452 | 2.06 | 20.70 | 241.68 | Lado Este |
| 1+200.00 | 10.00 | 4.56 | 0.454 | 2.07 | 20.66 | 262.34 | Lado Este |
| 1+210.00 | 10.00 | 4.51 | 0.457 | 2.06 | 20.66 | 283.00 | Lado Este |
| 1+220.00 | 10.00 | 4.52 | 0.513 | 2.32 | 21.90 | 304.90 | Lado Este |
| 1+230.00 | 10.00 | 4.48 | 0.460 | 2.06 | 21.90 | 326.80 | Lado Este |
| SUBTOTAL 1 | | | | | 326.80 | m3 | |
| 1+107.00 | | 6.74 | 0.301 | 2.03 | | | |
| 1+114.70 | 7.70 | 10.42 | 0.216 | 2.25 | 16.48 | 16.48 | Lado Oeste |
| 1+120.00 | 5.30 | 7.49 | 0.214 | 1.60 | 10.21 | 26.69 | Lado Oeste |
| 1+130.00 | 10.00 | 4.35 | 0.228 | 0.99 | 12.97 | 39.66 | Lado Oeste |
| 1+132.40 | 2.40 | 4.76 | 0.225 | 1.07 | 2.48 | 42.14 | Lado Oeste |
| 1+140.00 | 7.60 | 4.55 | 0.235 | 1.07 | 8.13 | 50.27 | Lado Oeste |
| 1+150.00 | 10.00 | 4.53 | 0.230 | 1.04 | 10.56 | 60.83 | Lado Oeste |
| 1+160.00 | 10.00 | 4.50 | 0.220 | 0.99 | 10.16 | 70.99 | Lado Oeste |
| 1+170.00 | 10.00 | 4.54 | 0.253 | 1.15 | 10.69 | 81.68 | Lado Oeste |
| 1+180.00 | 10.00 | 4.54 | 0.251 | 1.14 | 11.44 | 93.12 | Lado Oeste |
| 1+190.00 | 10.00 | 4.60 | 0.246 | 1.13 | 11.36 | 104.48 | Lado Oeste |
| 1+200.00 | 10.00 | 4.49 | 0.249 | 1.12 | 11.25 | 115.73 | Lado Oeste |
| 1+210.00 | 10.00 | 4.93 | 0.252 | 1.24 | 11.80 | 127.53 | Lado Oeste |
| 1+220.00 | 10.00 | 6.51 | 0.306 | 1.99 | 16.17 | 143.70 | Lado Oeste |
| 1+230.00 | 10.00 | 4.59 | 0.255 | 1.17 | 15.81 | 159.51 | Lado Oeste |
| SUBTOTAL 1 | | | | | 159.51 | m3 | |
| TOTAL | | | | | 486.31 | m3 | |

c/ SIN NOMBRE DESDE LOURDES HASTA EMILIANO ORTEGA

ABSCISAS 0+010.00 - 0+040.00

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|--------------|-----------|-------------|-----------|--------------|-------------------|---------------|
| 0+000.00 | | | | 0.00 | | | |
| 0+010.00 | 10.00 | 4.14 | 0.341 | 1.41 | 7.06 | | |
| 0+020.00 | 10.00 | 8.02 | 0.314 | 2.52 | 19.65 | 19.65 | |
| 0+030.00 | 10.00 | 9.07 | 0.332 | 3.01 | 27.65 | 47.30 | |
| 0+040.00 | 10.00 | 9.00 | 0.331 | 2.98 | 29.95 | 77.25 | |
| 0+046.67 | 6.67 | 12.72 | 0.345 | 4.39 | 24.57 | 101.82 | |
| TOTAL : | | | | | 108.88 | m³. | |

ABSCISAS 0+000.00 - 0+152.80

C/ ZONA DE PARQUEADERO ESTADIO DESDE LOURDES
HASTA AV. EMILIANO ORTEGA

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m ²) | VOLUMEN (m ³) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|-----------------|--------------|----------------|---------------------------|------------------------------|----------------------|---------------|
| 0+000.00 | | 15.41 | 0.375 | 5.78 | | | |
| 0+003.85 | 3.85 | 9.60 | 0.482 | 4.63 | 20.03 | 20.03 | |
| 0+006.13 | 2.28 | 15.07 | 0.418 | 6.30 | 12.46 | 32.49 | |
| 0+010.00 | 3.87 | 18.82 | 0.424 | 7.98 | 27.63 | 60.12 | |
| 0+020.00 | 10.00 | 19.12 | 0.415 | 7.94 | 79.58 | 139.70 | |
| 0+030.00 | 10.00 | 19.09 | 0.470 | 8.97 | 84.53 | 224.23 | |
| 0+035.12 | 5.12 | 19.03 | 0.487 | 9.27 | 46.69 | 270.92 | |
| 0+037.81 | 2.69 | 14.17 | 0.495 | 7.01 | 21.90 | 292.82 | |
| 0+040.00 | 2.19 | 14.07 | 0.473 | 6.66 | 14.97 | 307.79 | |
| 0+050.00 | 10.00 | 14.05 | 0.416 | 5.84 | 62.49 | 370.28 | |
| 0+060.00 | 10.00 | 14.01 | 0.434 | 6.08 | 59.61 | 429.89 | |
| 0+070.00 | 10.00 | 14.05 | 0.448 | 6.29 | 61.87 | 491.76 | |
| 0+080.00 | 10.00 | 14.03 | 0.426 | 5.98 | 61.35 | 553.11 | |
| 0+090.00 | 10.00 | 9.31 | 0.507 | 4.72 | 53.47 | 606.58 | |
| 0+100.00 | 10.00 | 9.13 | 0.462 | 4.22 | 44.68 | 651.26 | |
| 0+110.00 | 10.00 | 9.07 | 0.538 | 4.88 | 45.47 | 696.73 | |
| 0+120.00 | 10.00 | 9.74 | 0.424 | 4.13 | 45.03 | 741.76 | |
| 0+130.00 | 10.00 | 7.64 | 0.422 | 3.22 | 36.76 | 778.52 | |
| 0+140.00 | 10.00 | 4.57 | 0.440 | 2.01 | 26.18 | 804.70 | |
| 0+152.80 | 12.80 | 0.00 | 0.440 | 0.00 | 12.88 | 817.58 | |
| TRAMO LATERAL | | | | | | | |
| 0+000.00 | | 14.50 | 0.397 | 5.76 | | | |
| 0+001.16 | 1.16 | 10.60 | 0.383 | 4.06 | 5.69 | 823.27 | |
| 0+004.58 | 3.42 | 8.81 | 0.370 | 3.26 | 12.52 | 835.79 | |
| 0+007.90 | 3.32 | 8.81 | 0.370 | 3.26 | 10.82 | 846.61 | |
| 0+009.16 | 1.26 | 8.81 | 0.380 | 3.35 | 4.16 | 850.77 | |
| TOTAL: | | | | | 850.77 m ³ . | | |

ABSCISAS 0+005.50 - 0+116.26

C/ MACARA DESDE ROCAFUERTE HASTA MIGUEL
RIOFRIO

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m ²) | VOLUMEN (m ³) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|-----------------|--------------|----------------|---------------------------|------------------------------|----------------------|---------------|
| 0+005.50 | | 16.56 | 0.231 | 3.83 | | | |
| 0+007.27 | 1.77 | 10.81 | 0.231 | 2.50 | 5.60 | 5.60 | |
| 0+010.00 | 2.73 | 9.01 | 0.286 | 2.58 | 6.93 | 12.53 | |
| 0+020.00 | 10.00 | 8.99 | 0.325 | 2.92 | 27.49 | 40.02 | |
| 0+030.00 | 10.00 | 8.92 | 0.353 | 3.15 | 30.35 | 70.37 | |
| 0+040.00 | 10.00 | 8.93 | 0.344 | 3.07 | 31.10 | 101.47 | |
| 0+050.00 | 10.00 | 8.90 | 0.375 | 3.34 | 32.05 | 133.52 | |
| 0+060.00 | 10.00 | 8.97 | 0.395 | 3.54 | 34.40 | 167.92 | |
| 0+070.00 | 10.00 | 8.95 | 0.355 | 3.18 | 33.60 | 201.52 | |
| 0+080.00 | 10.00 | 8.99 | 0.398 | 3.58 | 33.78 | 235.30 | |
| 0+090.00 | 10.00 | 9.01 | 0.414 | 3.73 | 36.54 | 271.84 | |
| 0+100.00 | 10.00 | 8.93 | 0.383 | 3.42 | 35.75 | 307.59 | |
| 0+110.00 | 10.00 | 9.03 | 0.321 | 2.90 | 31.59 | 339.18 | |
| 0+112.60 | 2.60 | 8.97 | 0.320 | 2.87 | 7.50 | 346.68 | |
| 0+116.26 | 3.66 | 12.27 | 0.306 | 3.75 | 12.12 | 358.80 | |
| TOTAL: | | | | | 358.80 m ³ . | | |

4

ABSCISAS 0+125.57 - 0+260.00

C/ MACARA DESDE MIGUEL RIOFRIO HASTA AZUAY

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m ²) | VOLUMEN (m ³) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|-----------------|--------------|----------------|---------------------------|------------------------------|----------------------|---------------|
| 0+125.57 | | 14.24 | 0.327 | 4.66 | | | |
| 0+126.92 | 1.35 | 10.95 | 0.285 | 3.12 | 5.25 | 5.25 | |
| 0+130.00 | 3.08 | 8.94 | 0.284 | 2.54 | 8.72 | 13.97 | |
| 0+140.00 | 10.00 | 8.98 | 0.346 | 3.11 | 28.23 | 42.20 | |
| 0+150.00 | 10.00 | 8.98 | 0.419 | 3.76 | 34.35 | 76.55 | |
| 0+160.00 | 10.00 | 8.96 | 0.379 | 3.40 | 35.80 | 112.35 | |
| 0+170.00 | 10.00 | 8.94 | 0.347 | 3.10 | 32.49 | 144.84 | |
| 0+180.00 | 10.00 | 8.96 | 0.365 | 3.27 | 31.86 | 176.70 | |
| 0+190.00 | 10.00 | 9.08 | 0.341 | 3.10 | 31.83 | 208.53 | |
| 0+200.00 | 10.00 | 8.97 | 0.390 | 3.50 | 32.97 | 241.50 | |
| 0+210.00 | 10.00 | 9.01 | 0.418 | 3.77 | 36.32 | 277.82 | |
| 0+220.00 | 10.00 | 9.02 | 0.408 | 3.68 | 37.23 | 315.05 | |
| 0+230.00 | 10.00 | 9.04 | 0.372 | 3.36 | 35.22 | 350.27 | |
| 0+234.98 | 4.98 | 9.04 | 0.369 | 3.34 | 16.68 | 366.95 | |
| 0+239.29 | 4.31 | 16.42 | 0.334 | 5.48 | 19.01 | 385.96 | |
| 0+248.44 | 9.15 | 16.41 | 0.377 | 6.19 | 53.39 | 439.35 | |
| 0+252.63 | 4.19 | 11.46 | 0.371 | 4.25 | 21.87 | 461.22 | |
| 0+260.00 | 7.37 | 8.10 | 0.354 | 2.87 | 26.23 | 487.45 | |
| TOTAL: | | | | | 487.45 m ³ . | | |

ABSCISAS 0+020.00 - 0+070.00

AV. 24 DE MAYO ENTRE AV. E. ORTEGA Y J.
EGUIGUREN

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m ²) | VOLUMEN (m ³) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|-----------------|--------------|----------------|---------------------------|------------------------------|----------------------|---------------|
| 0+020.00 | | 12.14 | 0.200 | 2.43 | | | |
| 0+030.00 | 10.00 | 10.10 | 0.200 | 2.02 | 22.24 | 22.24 | |
| 0+040.00 | 10.00 | 10.13 | 0.200 | 2.03 | 20.23 | 42.47 | |
| 0+050.00 | 10.00 | 10.52 | 0.200 | 2.10 | 20.65 | 63.12 | |
| 0+060.00 | 10.00 | 10.55 | 0.200 | 2.11 | 21.07 | 84.19 | |
| 0+070.00 | 10.00 | 10.10 | 0.200 | 2.02 | 20.65 | 104.84 | |
| TOTAL : | | | | | 104.84 m ³ . | | |

ABSCISAS 0+005.65 - 0+200.00

C/ LOURDES ENTRE E. ORTEGA Y MACARA

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m ²) | VOLUMEN (m ³) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|-----------------|--------------|----------------|---------------------------|------------------------------|----------------------|---------------|
| 0+005.65 | | 16.41 | 0.309 | 5.07 | | | |
| 0+010.00 | 4.35 | 12.22 | 0.341 | 4.17 | 20.09 | 20.09 | |
| 0+020.00 | 10.00 | 15.17 | 0.419 | 6.36 | 52.62 | 72.71 | |
| 0+030.00 | 10.00 | 17.60 | 0.436 | 7.67 | 70.15 | 142.86 | |
| 0+040.00 | 10.00 | 13.84 | 0.418 | 5.79 | 67.29 | 210.15 | |
| 0+045.00 | 5.00 | 11.58 | 0.410 | 4.75 | 26.33 | 236.48 | |
| 0+050.00 | 5.00 | 14.26 | 0.372 | 5.30 | 25.13 | 261.61 | |
| 0+060.00 | 10.00 | 17.26 | 0.443 | 7.65 | 64.75 | 326.36 | |
| 0+070.00 | 10.00 | 16.28 | 0.436 | 7.10 | 73.72 | 400.08 | |
| 0+080.00 | 10.00 | 16.31 | 0.426 | 6.95 | 70.23 | 470.31 | |
| 0+090.00 | 10.00 | 9.12 | 0.419 | 3.82 | 53.85 | 524.16 | |
| 0+100.00 | 10.00 | 9.16 | 0.372 | 3.41 | 36.14 | 560.30 | |
| 0+110.00 | 10.00 | 9.22 | 0.408 | 3.76 | 35.85 | 596.15 | |
| 0+120.00 | 10.00 | 9.31 | 0.401 | 3.73 | 37.48 | 633.63 | |
| 0+130.00 | 10.00 | 9.88 | 0.380 | 3.75 | 37.44 | 671.07 | |
| 0+140.00 | 10.00 | 9.40 | 0.382 | 3.59 | 36.73 | 707.80 | |
| 0+150.00 | 10.00 | 9.36 | 0.396 | 3.71 | 36.49 | 744.29 | |
| 0+160.00 | 10.00 | 9.32 | 0.373 | 3.48 | 35.91 | 780.20 | |
| 0+170.00 | 10.00 | 9.26 | 0.371 | 3.44 | 34.56 | 814.76 | |
| 0+175.00 | 5.00 | 11.75 | 0.379 | 4.45 | 19.72 | 834.48 | |
| 0+180.00 | 5.00 | 15.36 | 0.290 | 4.45 | 22.27 | 856.75 | |
| 0+190.00 | 10.00 | 17.62 | 0.371 | 6.54 | 54.96 | 911.71 | |
| 0+200.00 | 10.00 | 9.18 | 0.383 | 3.52 | 50.26 | 961.97 | |
| TOTAL : | | | | | 961.97 m ³ . | | |

**C/ AZUAY DESDE AV. EMILIANO ORTEGA HASTA
MACARA**

ABSCISAS 0+010.00 - 0+113.70

| ABSCISAS | LONGITUD (m) | ANCHO (m) | ESPESOR (m) | AREA (m2) | VOLUMEN (m3) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|--------------|-----------|-------------|-----------|--------------|-------------------|---------------------|
| 0+010.00 | | 15.33 | 0.356 | 5.46 | | | |
| 0+020.00 | 10.00 | 9.57 | 0.359 | 3.44 | 44.46 | 44.46 | Estructura Granular |
| 0+030.00 | 10.00 | 9.40 | 0.411 | 3.86 | 36.50 | 80.96 | Estructura Granular |
| 0+040.00 | 10.00 | 9.37 | 0.411 | 3.85 | 38.57 | 119.53 | Estructura Granular |
| 0+050.00 | 10.00 | 9.33 | 0.387 | 3.61 | 37.31 | 156.84 | Estructura Granular |
| 0+060.00 | 10.00 | 9.33 | 0.530 | 4.94 | 42.78 | 199.62 | Estructura Granular |
| 0+070.00 | 10.00 | 9.29 | 0.335 | 3.11 | 40.29 | 239.91 | Estructura Granular |
| 0+080.00 | 10.00 | 9.32 | 0.314 | 2.93 | 30.19 | 270.10 | Estructura Granular |
| 0+090.00 | 10.00 | 9.38 | 0.370 | 3.47 | 31.99 | 302.09 | Estructura Granular |
| 0+100.00 | 10.00 | 9.32 | 0.330 | 3.08 | 32.73 | 334.82 | Estructura Granular |
| 0+110.00 | 10.00 | 10.34 | 0.352 | 3.64 | 33.58 | 368.40 | Estructura Granular |
| 0+113.70 | 3.70 | 13.51 | 0.362 | 4.89 | 15.78 | 384.18 | Estructura Granular |

SUBTOTAL 1: 384.18 m³.

| | | | | | | | |
|----------|-------|------|------|------|-------|--------|------------------|
| 0+010.00 | | 3.00 | 0.60 | 1.80 | | | |
| 0+020.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 18.00 | Sobre excavación |
| 0+030.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 36.00 | Sobre excavación |
| 0+040.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 54.00 | Sobre excavación |
| 0+050.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 72.00 | Sobre excavación |
| 0+060.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 90.00 | Sobre excavación |
| 0+070.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 108.00 | Sobre excavación |
| 0+080.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 126.00 | Sobre excavación |
| 0+090.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 144.00 | Sobre excavación |
| 0+100.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 162.00 | Sobre excavación |
| 0+110.00 | 10.00 | 3.00 | 0.60 | 1.80 | 18.00 | 180.00 | Sobre excavación |
| 0+113.70 | 3.70 | 3.00 | 0.60 | 1.80 | 6.66 | 186.66 | Sobre excavación |

SUBTOTAL 2: 186.66 m³.

TOTAL : 570.84 m³.

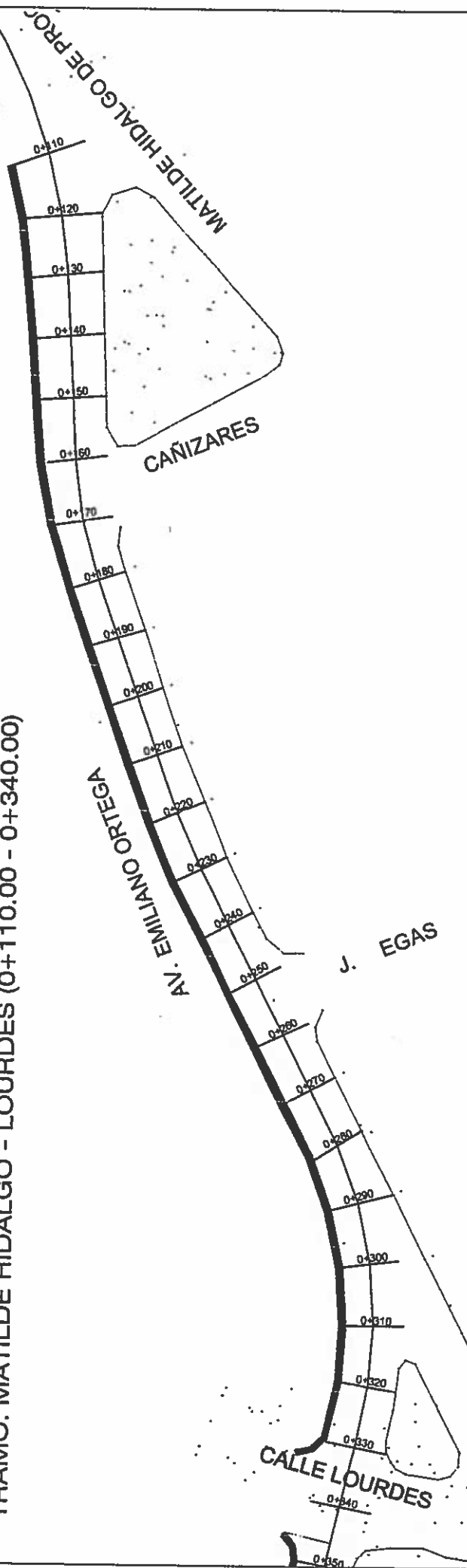
Nota: Estructura granular comprende las capas de Base y Sub-base

Nota 2: Medidas de sobre excavacion acordadas con fiscalización

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A

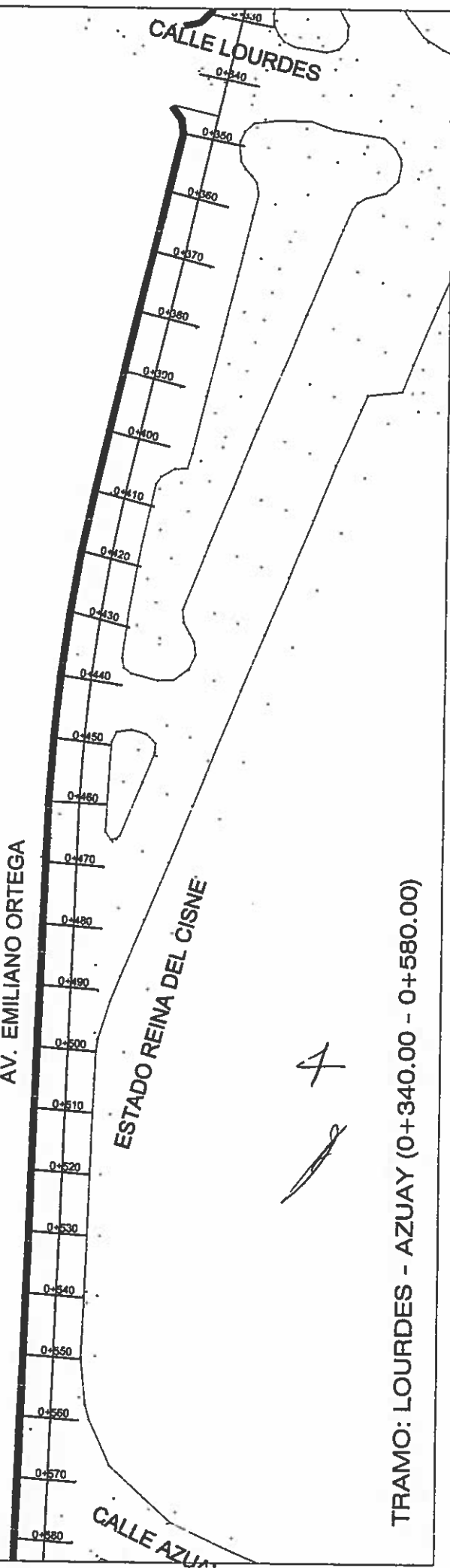
AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA ROCAFUERTE (0+110.00 - 0+860.00)

TRAMO: MATILDE HIDALGO - LOURDES (0+110.00 - 0+340.00)



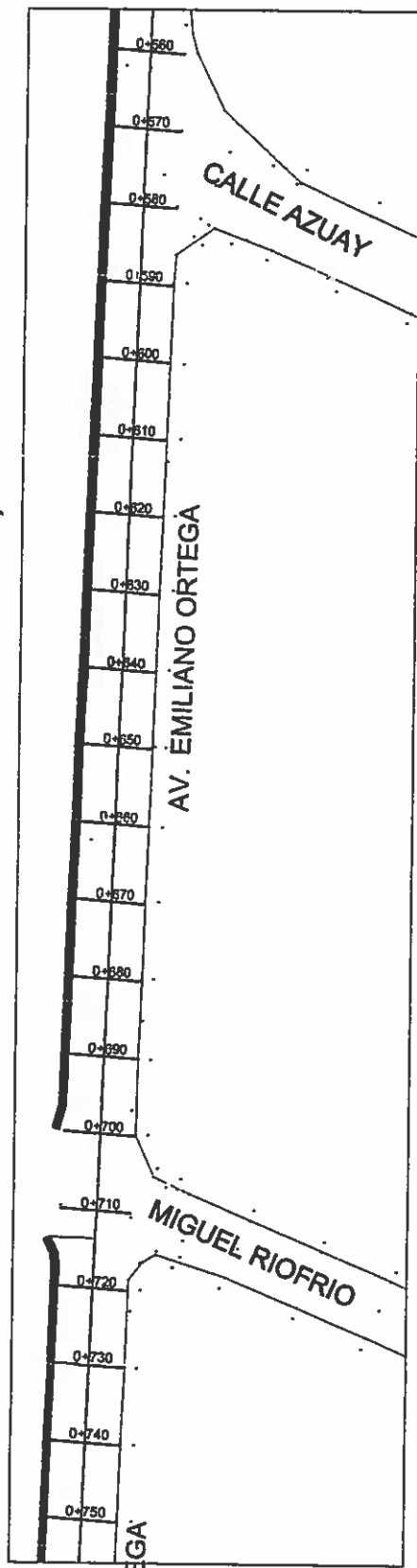
AV. EMILIANO ORTEGA

TRAMO: LOURDES - AZUAY (0+340.00 - 0+580.00)

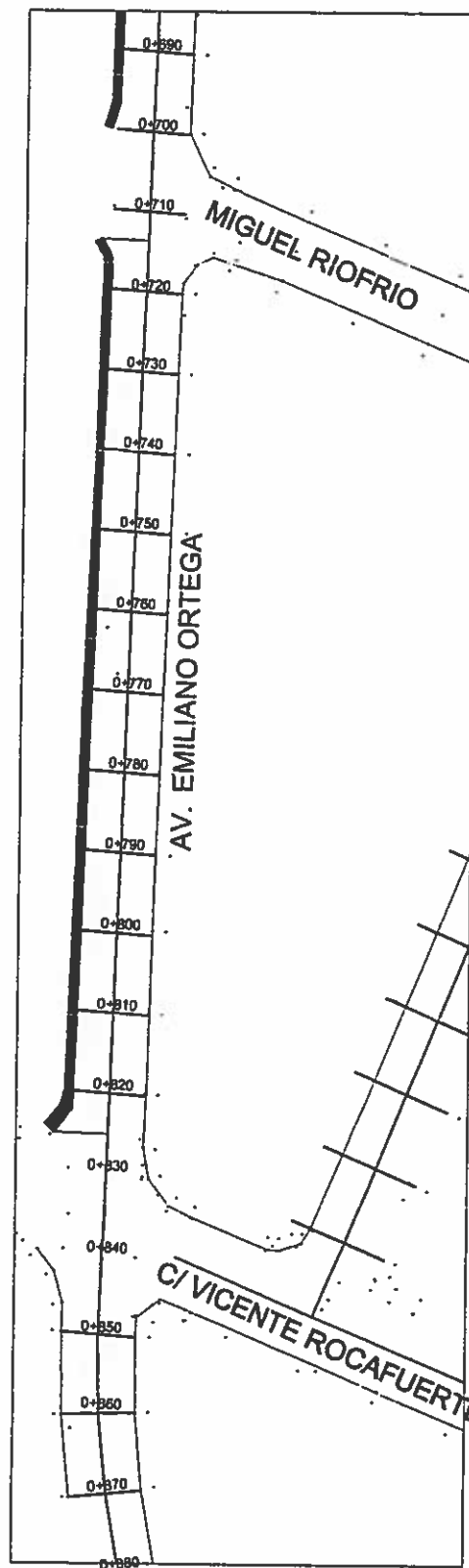


AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA ROCAFUERTE (0+110.00 - 0+860.00)

TRAMO: AZUAY HASTA MIGUEL RIOFRIO (0+580.00 - 0+720.00)

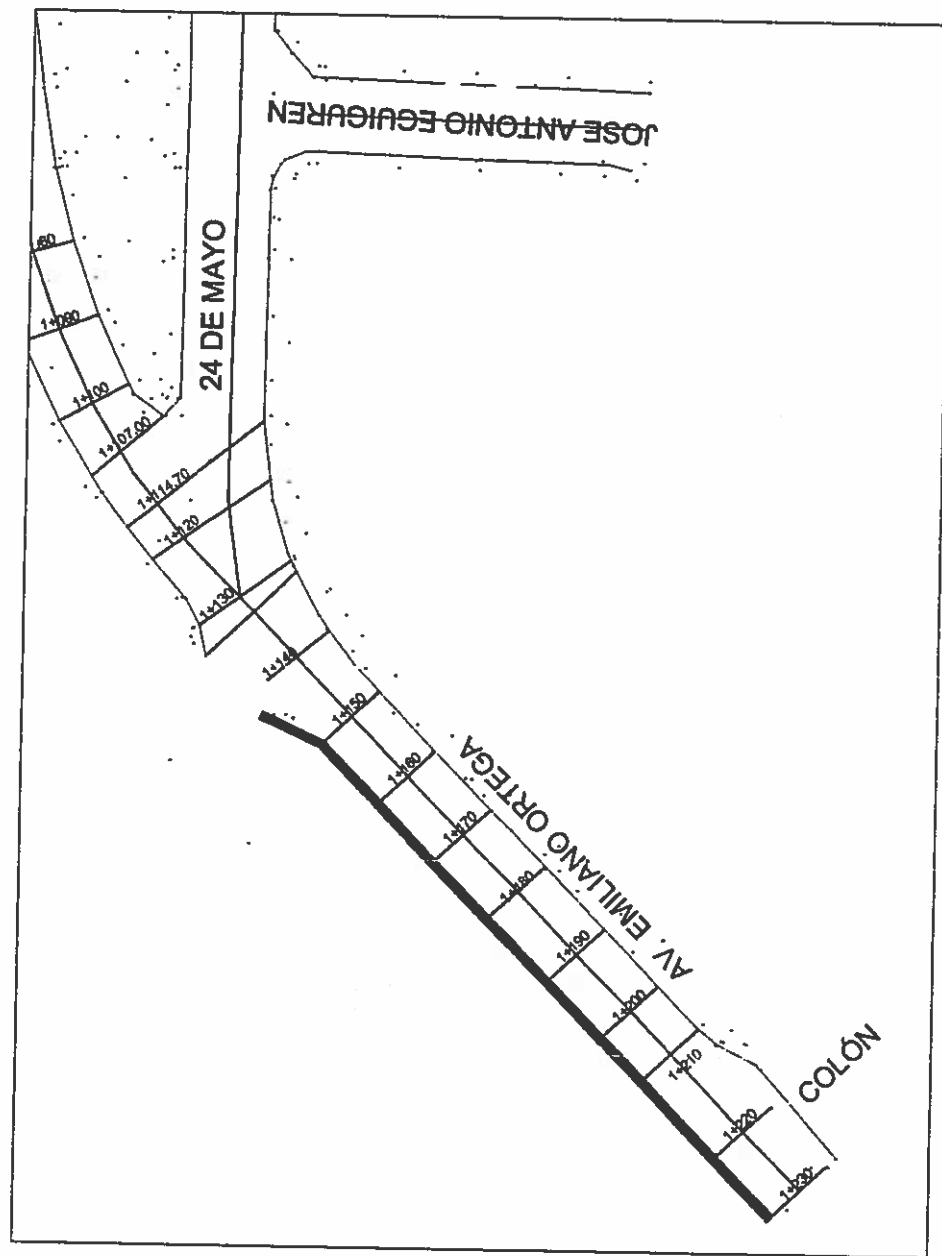


TRAMO: MIGUEL RIOFRIO HASTA ROCAFUERTE (0+700.00 - 0+860.00)



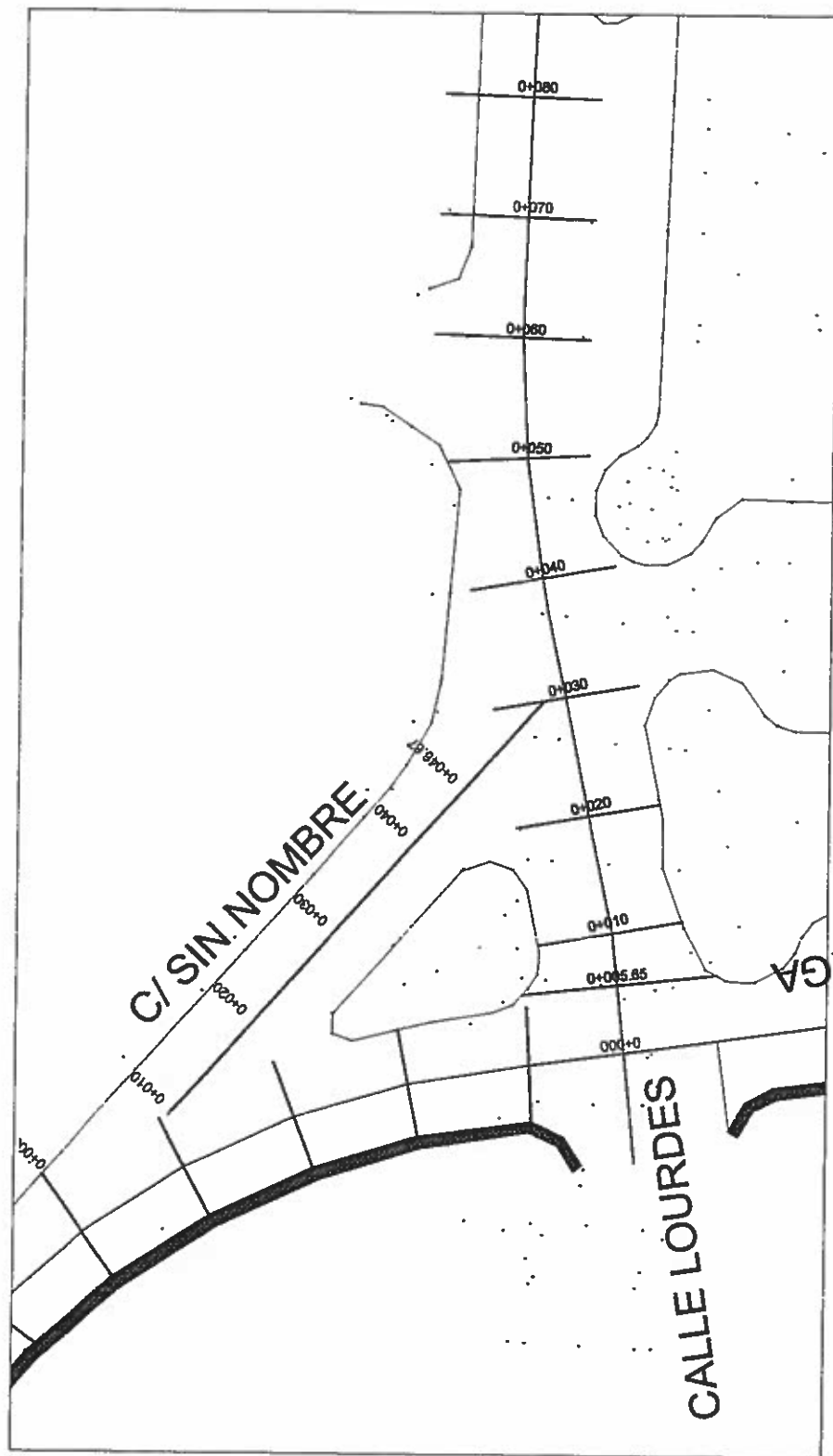
AV. EMILIANO ORTEGA DESDE 24 MAYO HASTA COLÓN (1+107.00 - 1+230.00)

TRAMO: 24 DE MAYO - COLÓN



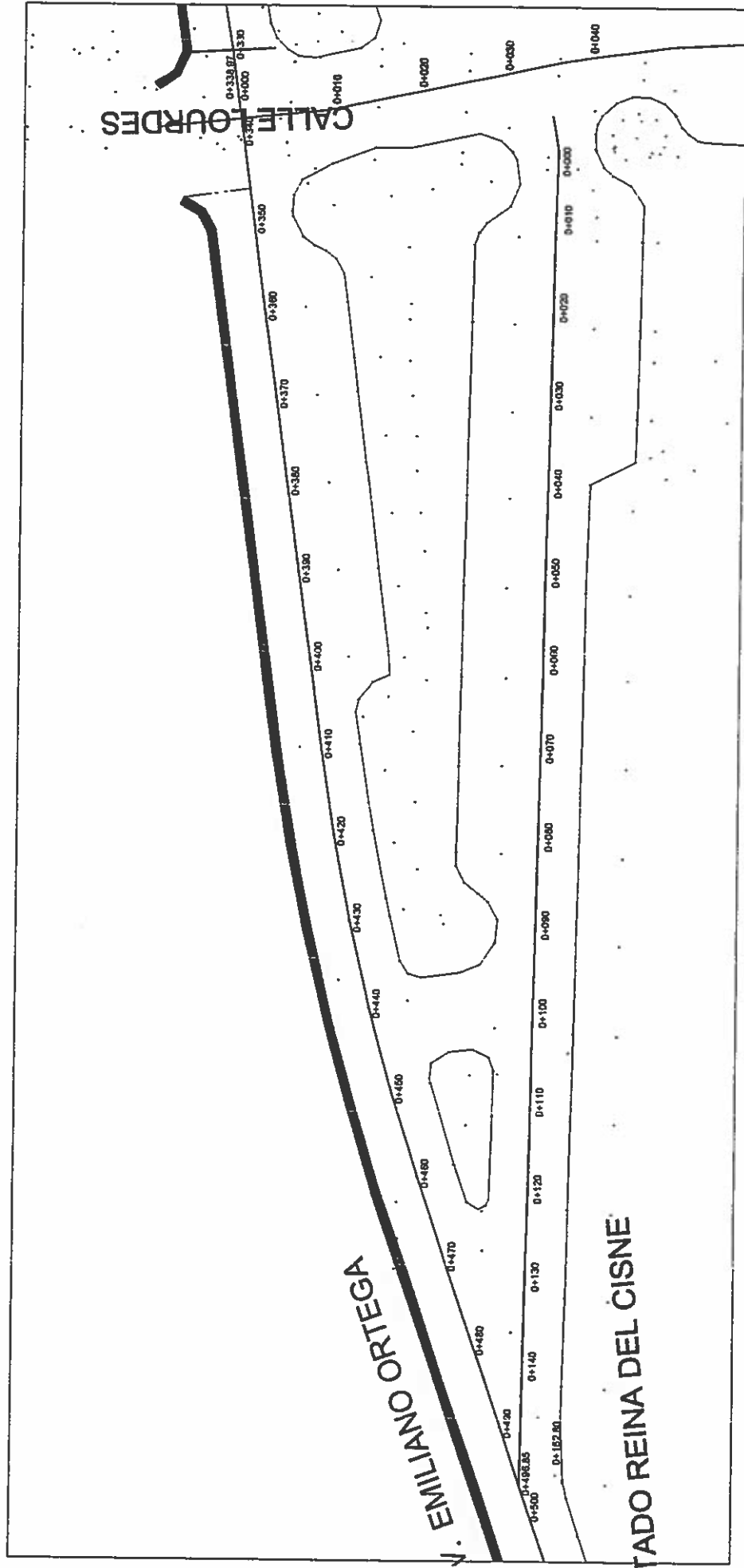
7

C/ SIN NOMBRE DESDE LOURDES HASTA EMILIANO ORTEGA



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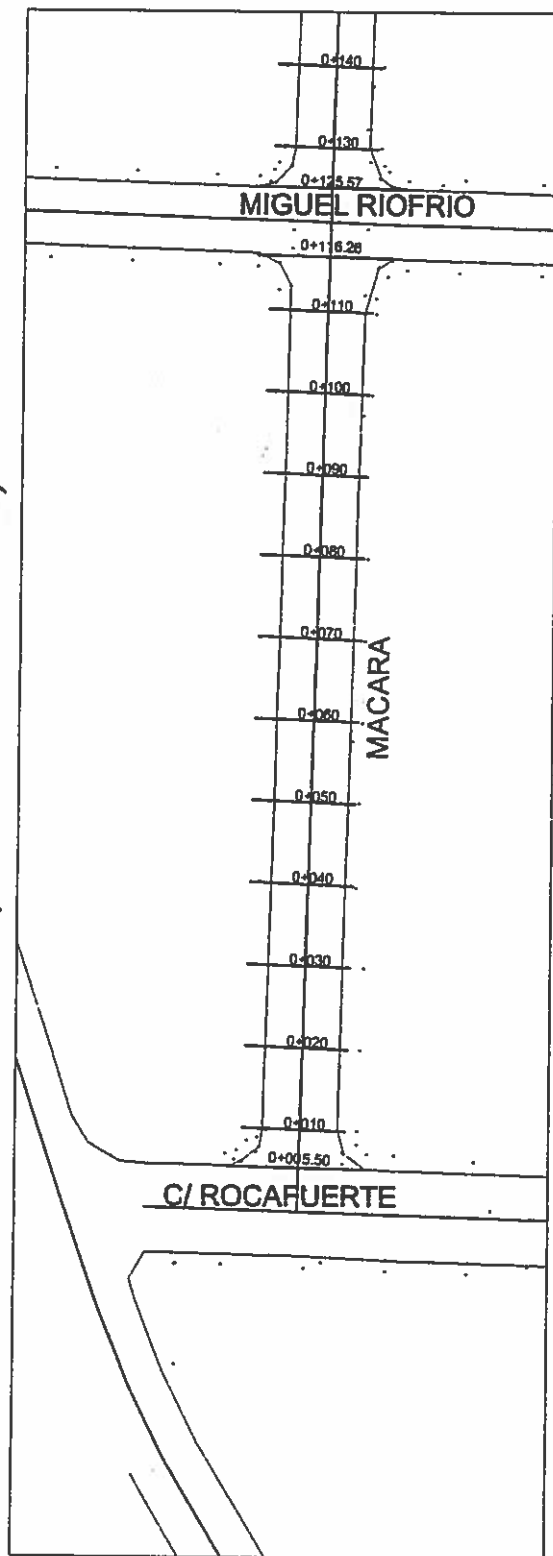
C/ ZONA DE PARQUEADERO DESDE LOURDES HASTA E. ORTEGA (ABS 0+000.00 - 0+152.80)



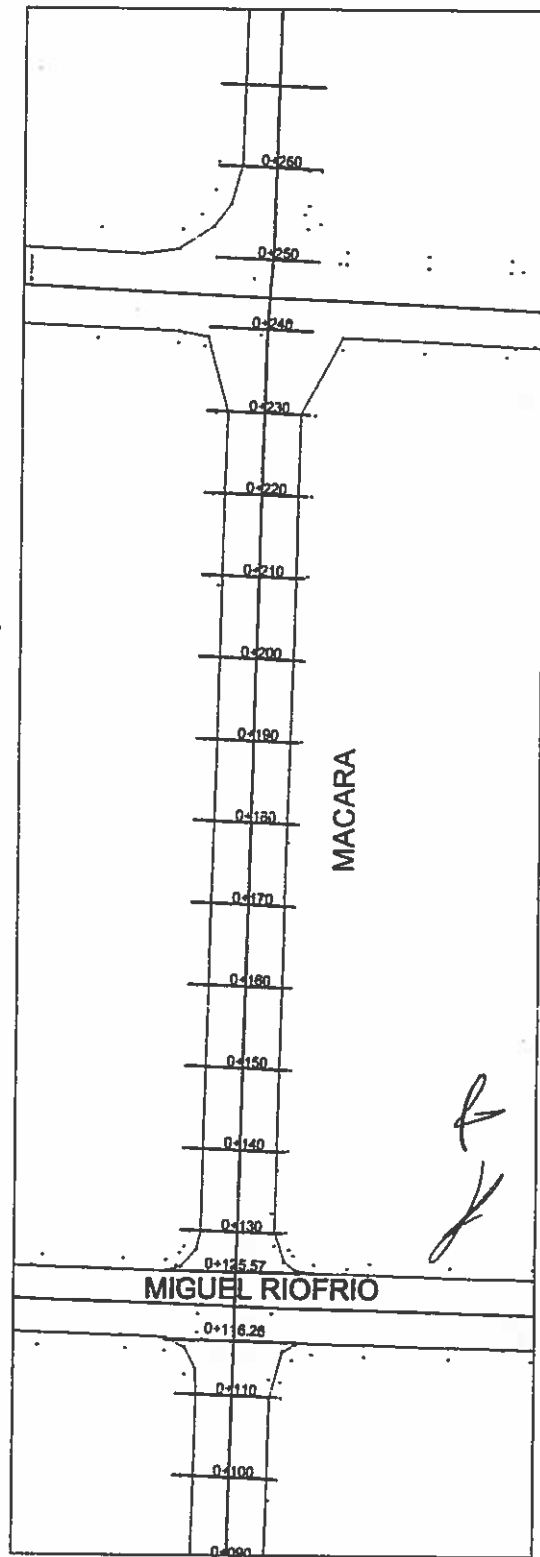
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C/ MACARÁ DESDE VICENTE ROCAFUERTE HASTA AZUAY

TRAMO: ROCAFUERTE - MIGUEL RIOFRIO (0+005.50 - 0+116.26)

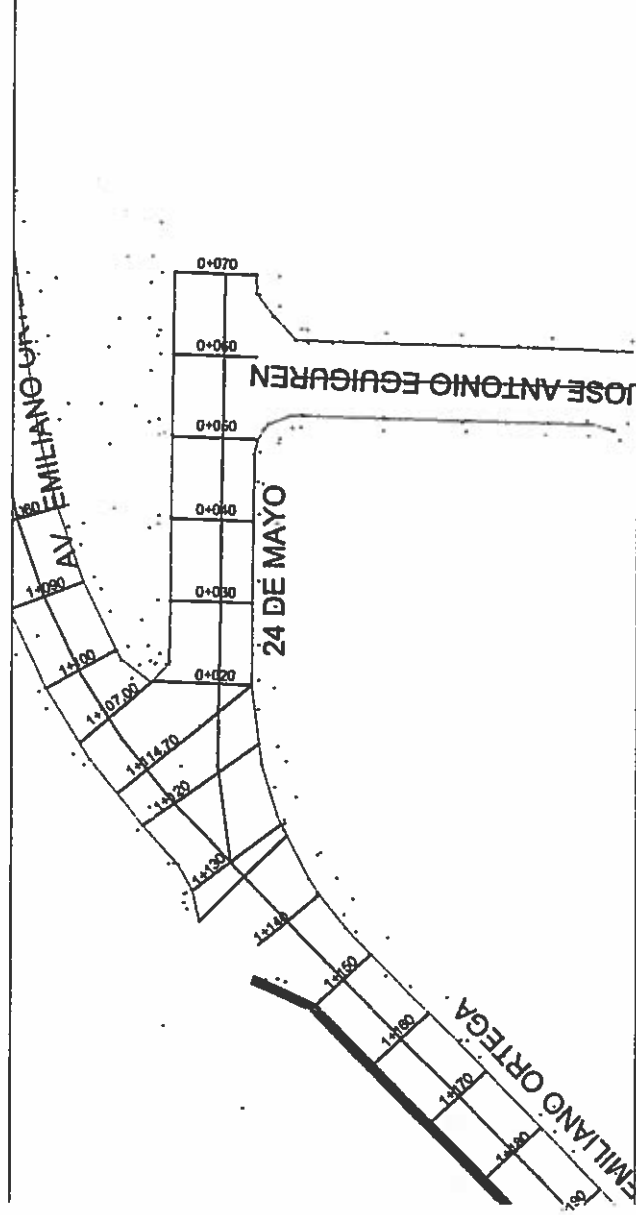


TRAMO: MIGUEL RIOFRIO - AZUAY (0+125.57 - 0+260.00)



AV. 24 DE MAYO ENTRE AV. EMILIANO ORTEGA Y J. A. EGUIGUREN (0+020.00 - 0+070.00)

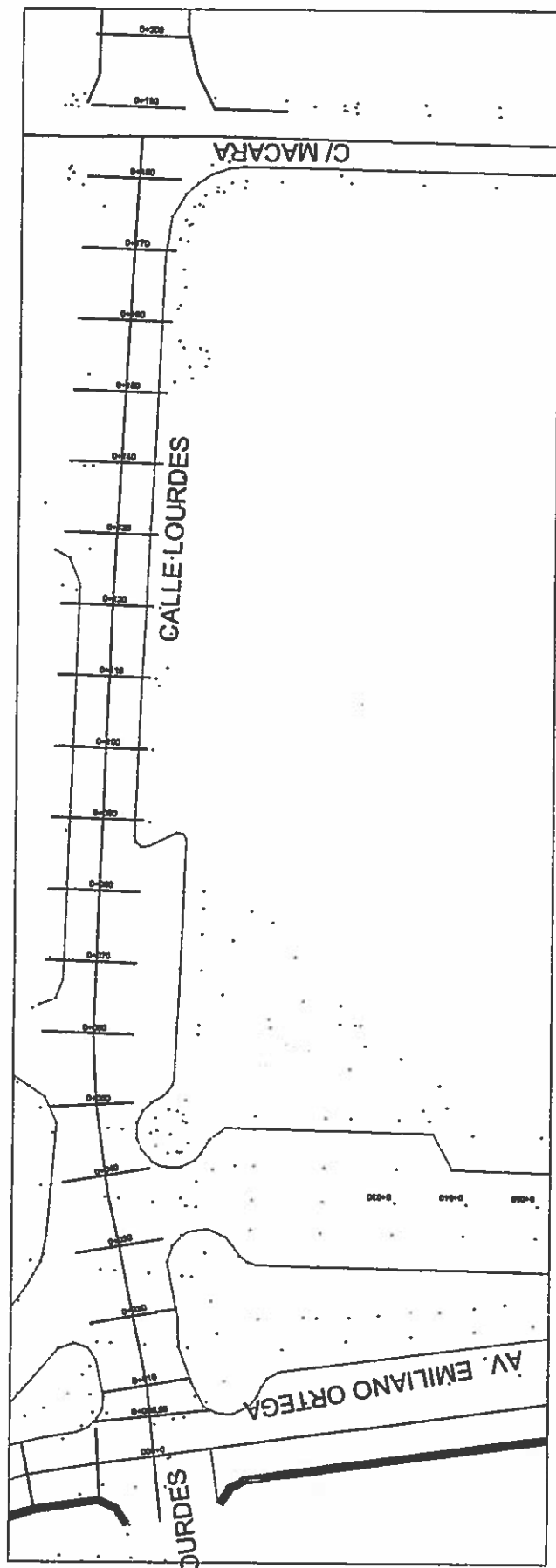
TRAMO: AV. E. ORTEGA - J. A. EGUIGUREN



7

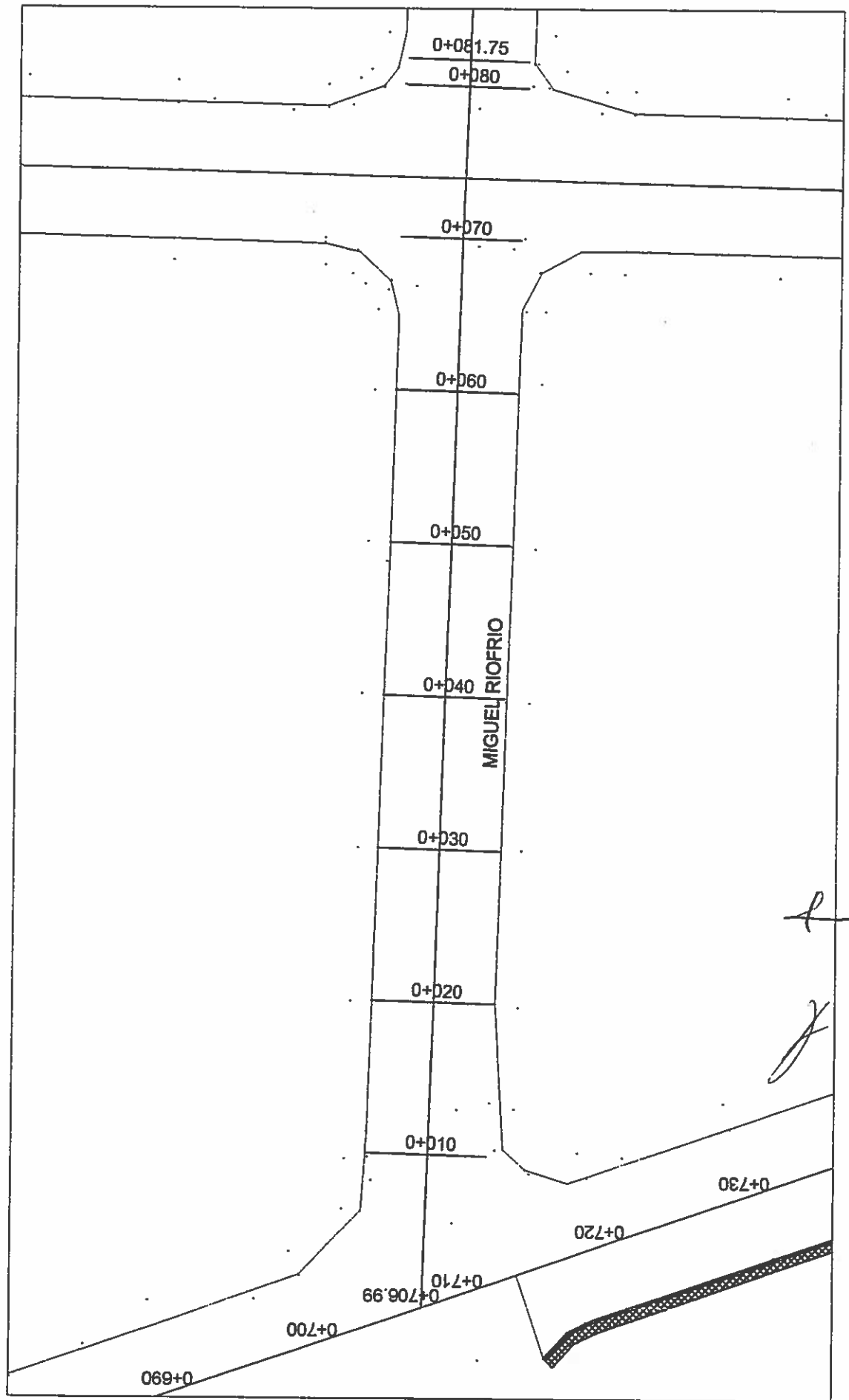
C/ LOURDES DESDE AV. E. ORTEGA HASTA MACARA (0+005.65 - 0+200.00)

TRAMO: AV. E. ORTEGA - MACARA

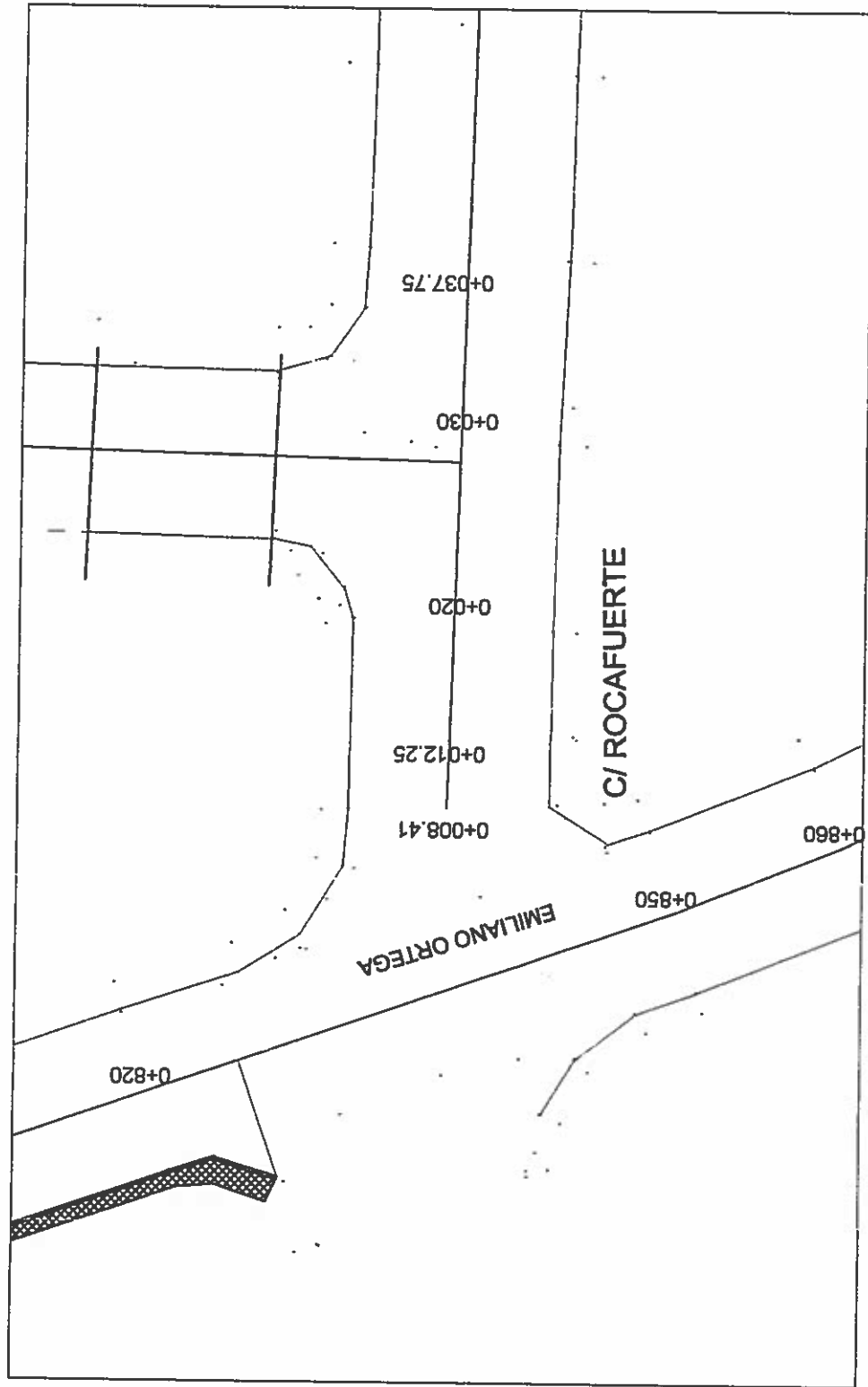


Handwritten signature or initials.

C/ MIGUEL RIOFRIO DESDE EMILIANO ORTEGA HASTA MACARA (ABS 0+008.19 - 0+081.75)

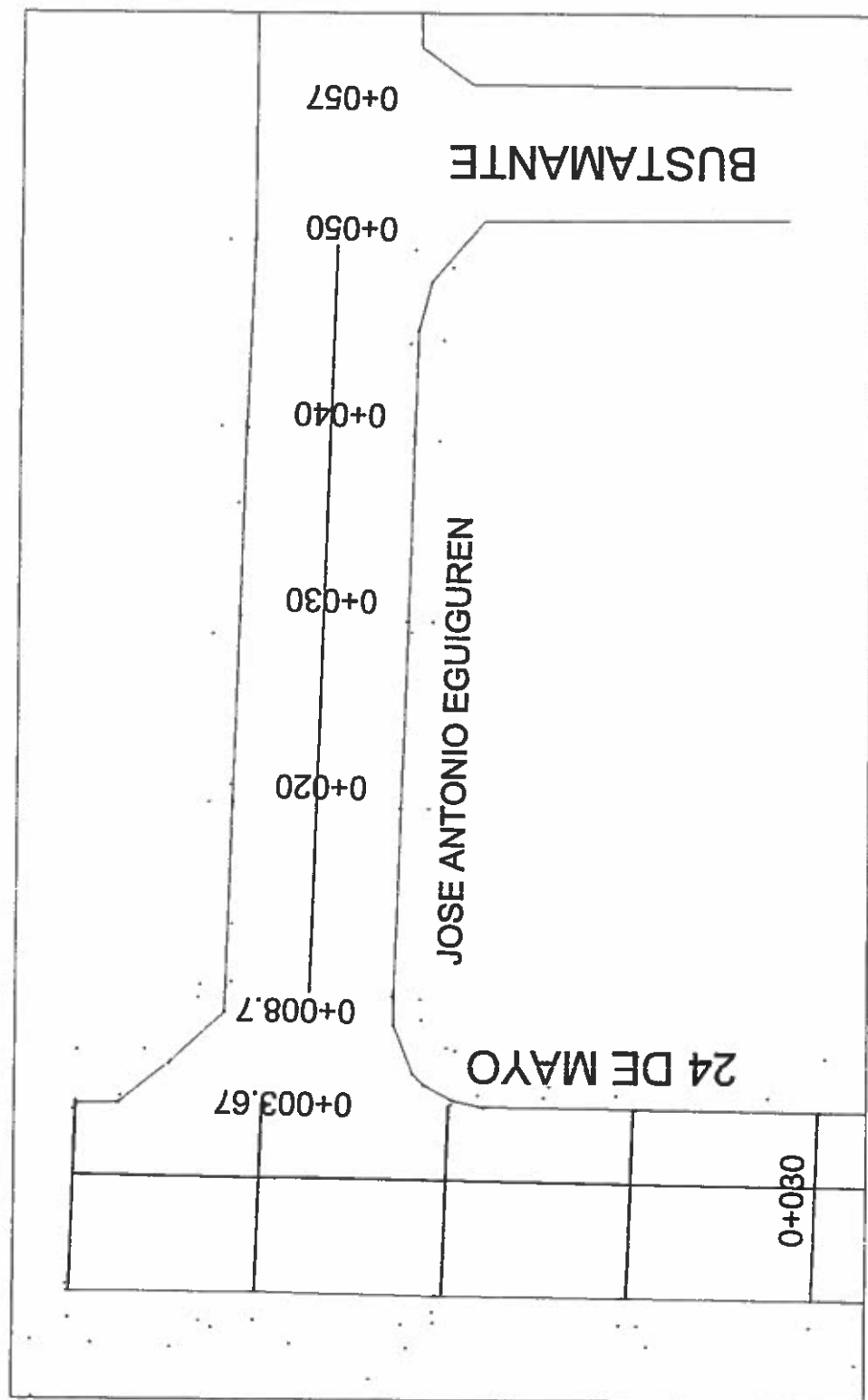


C/ ROCAFUERTE DESDE EMILIANO ORTEGA HASTA MACARA (ABS 0+008.41 - 0+037.75)



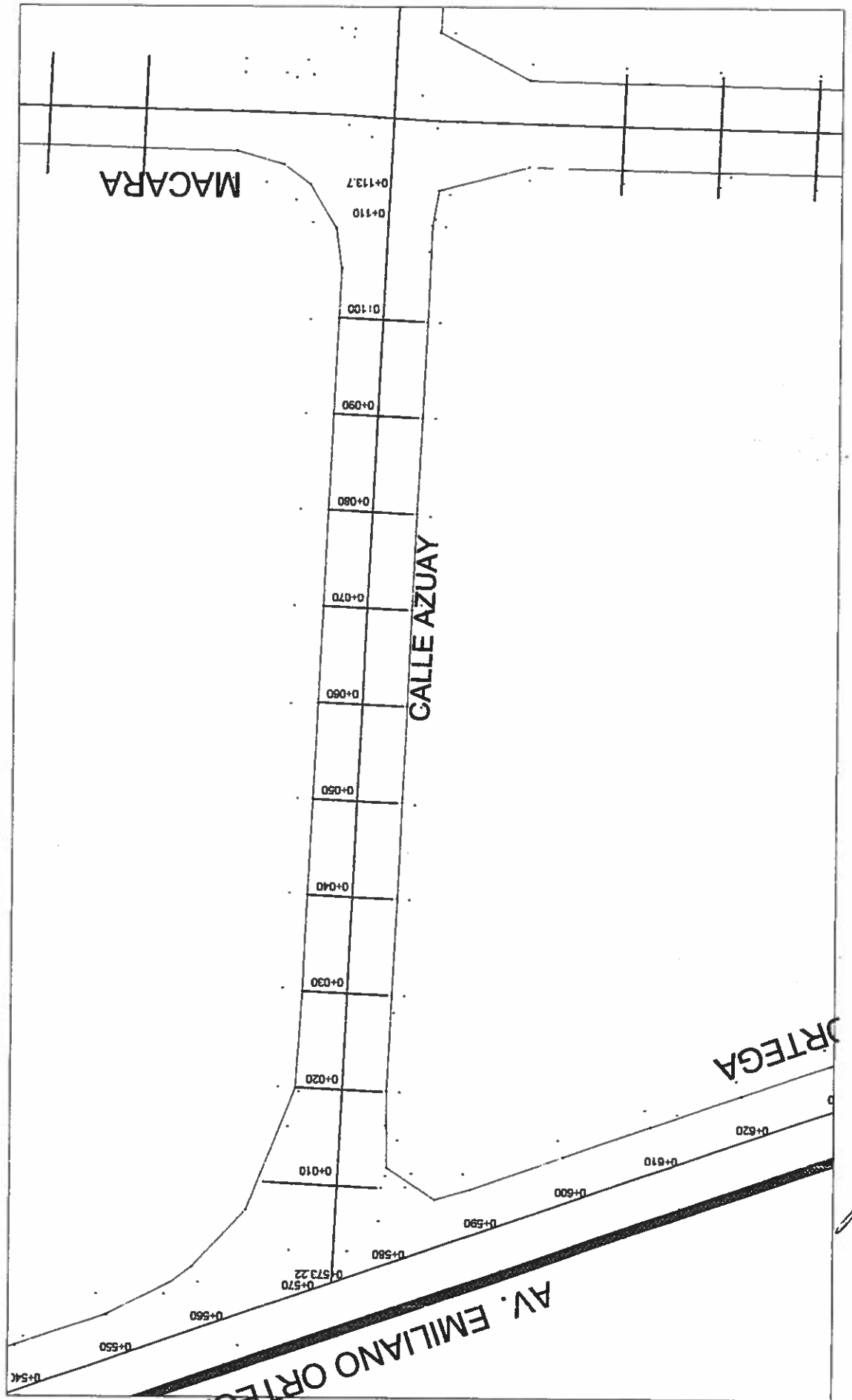
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C/ J. A. EGUIGUTEN DESDE 24 DE MAYO HASTA BUSTAMANTE (ABS 0+003.67 - 0+057.00)

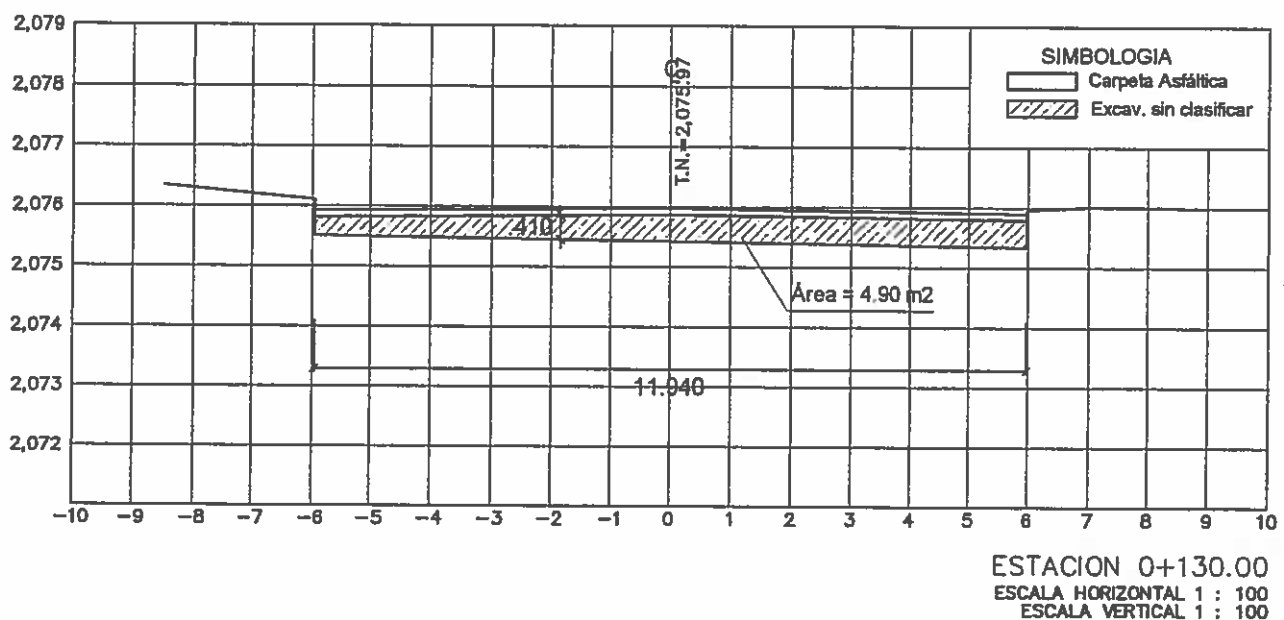
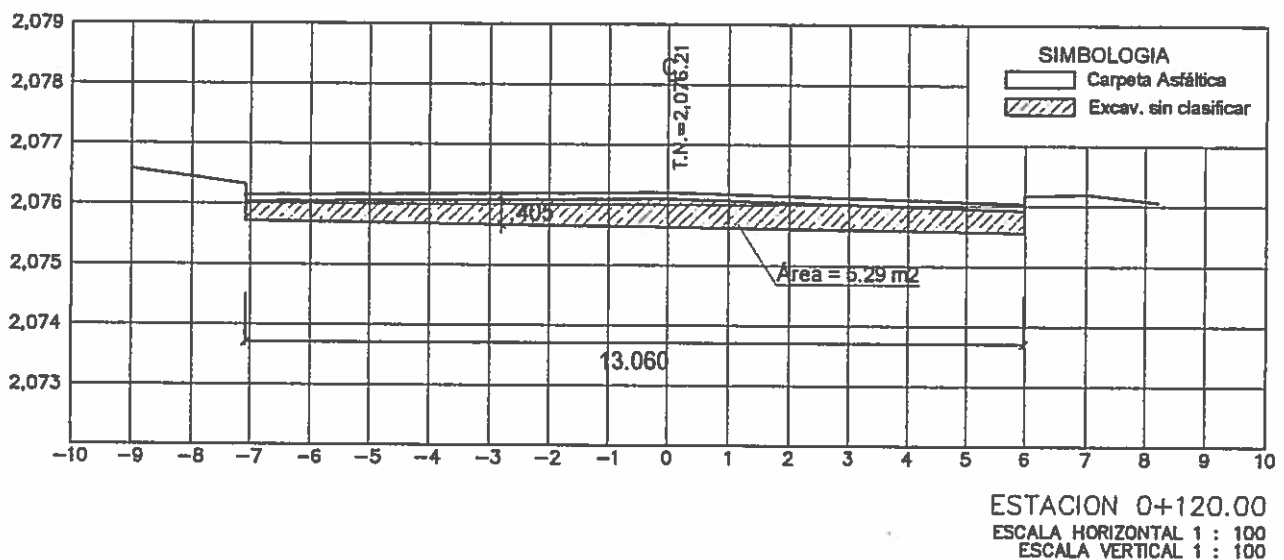
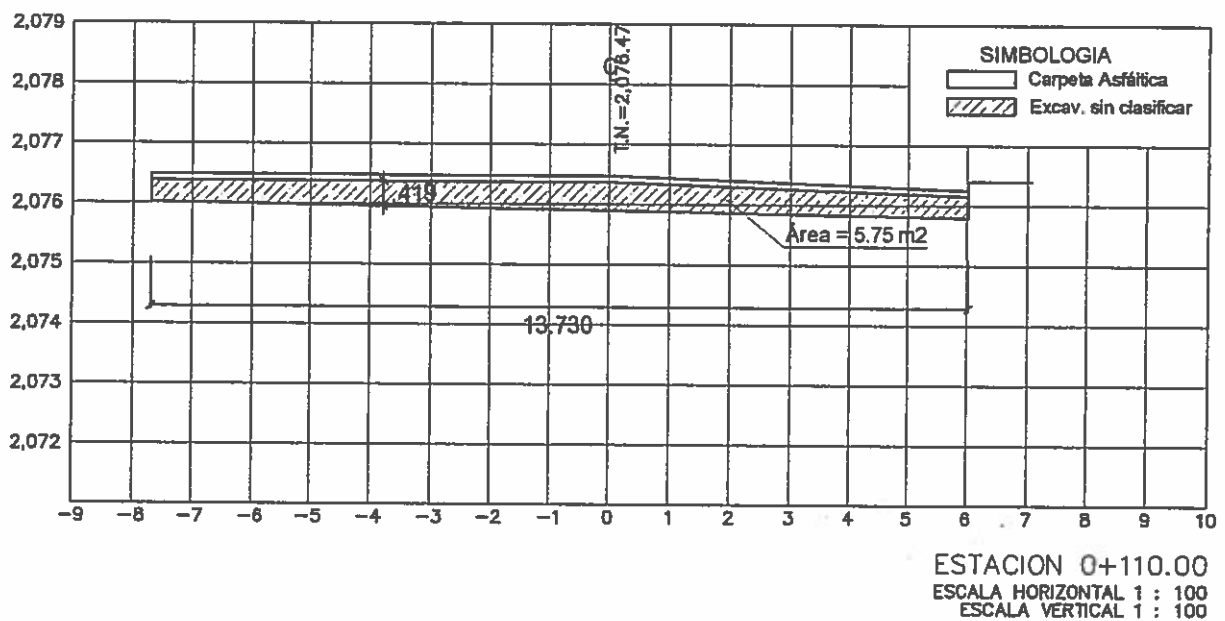


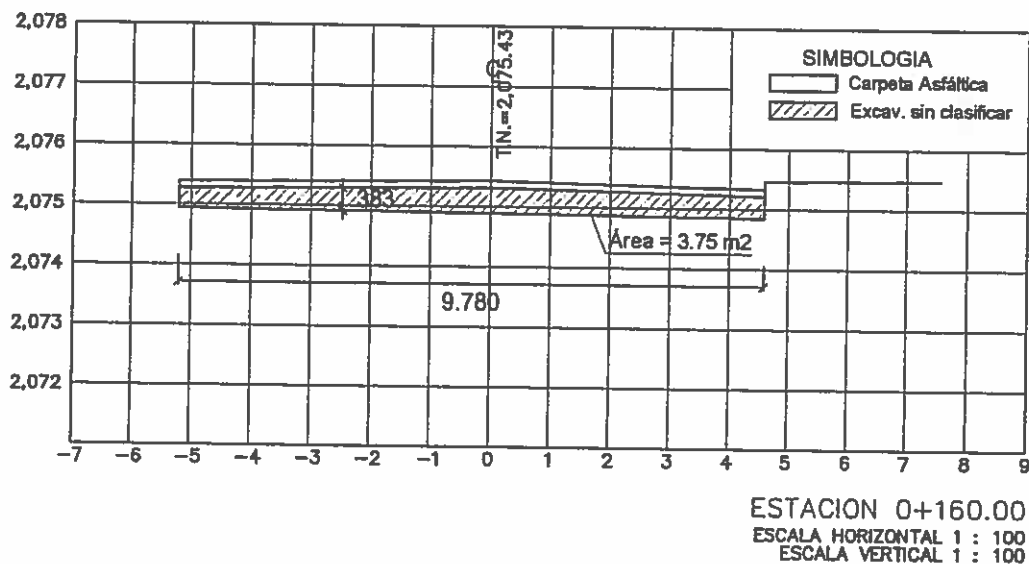
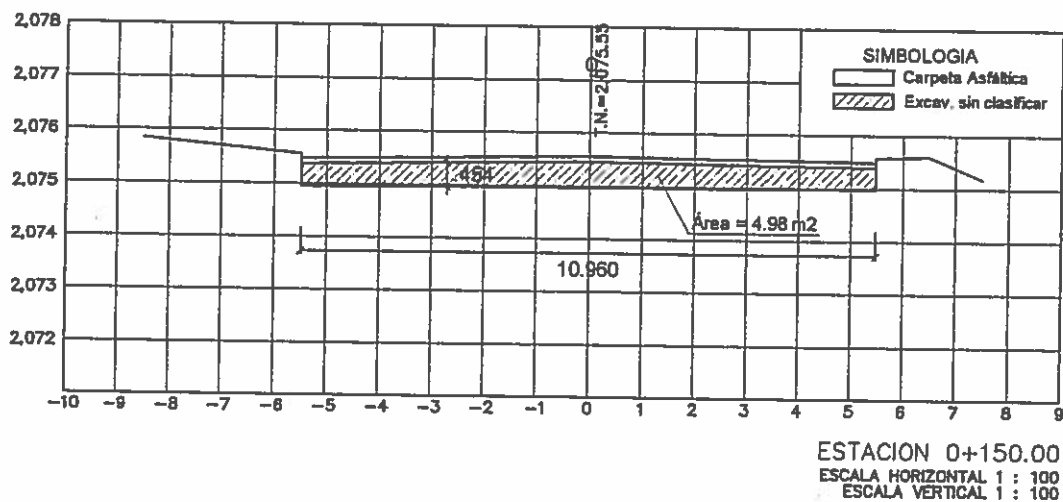
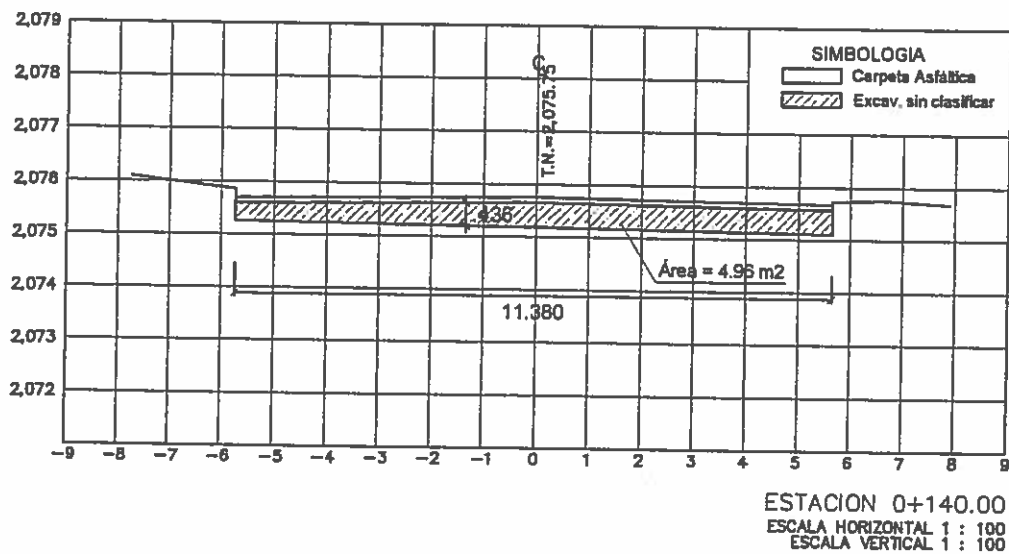
Handwritten signature and a small cross-like mark.

C/ AZUAY DESDE EMILIANO ORTEGA HASTA MACARA (ABS 0+010.00 - 0+113.70)

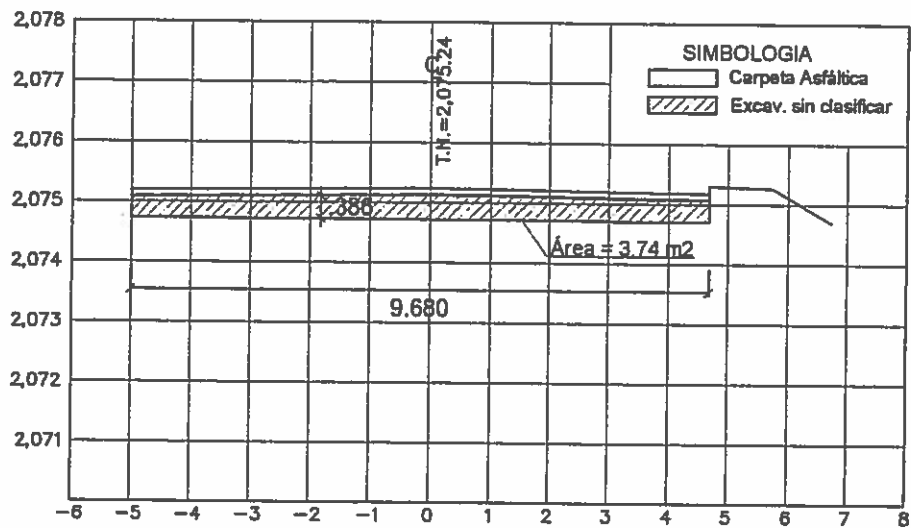


RU0004 EXCAVACIÓN A MAQUINA SIN CLASIFICAR
AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA ROCAFUERTE

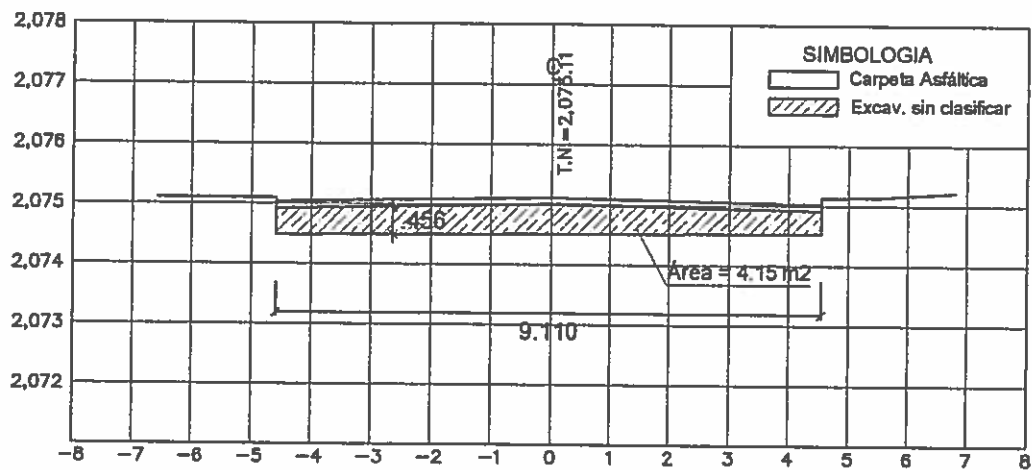




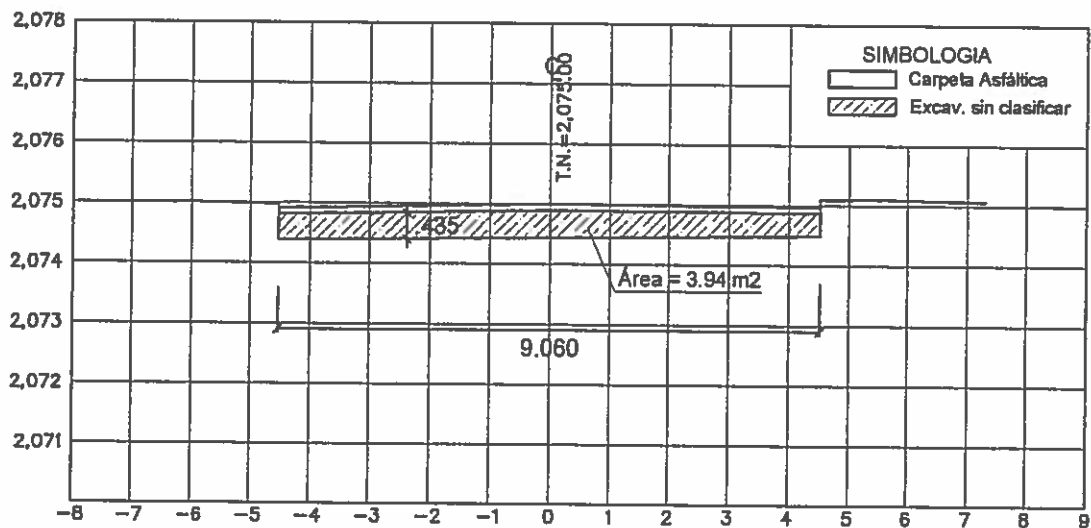
4



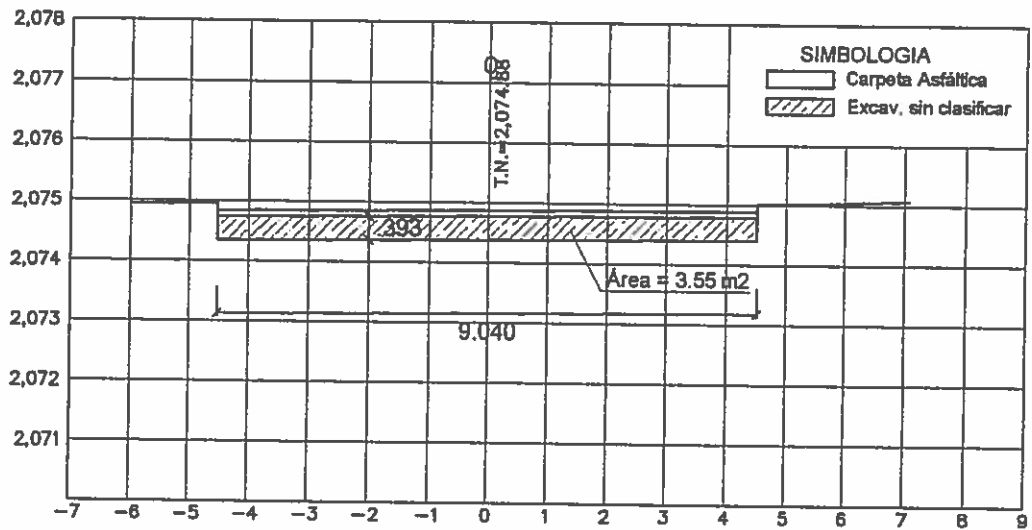
ESTACION 0+170.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



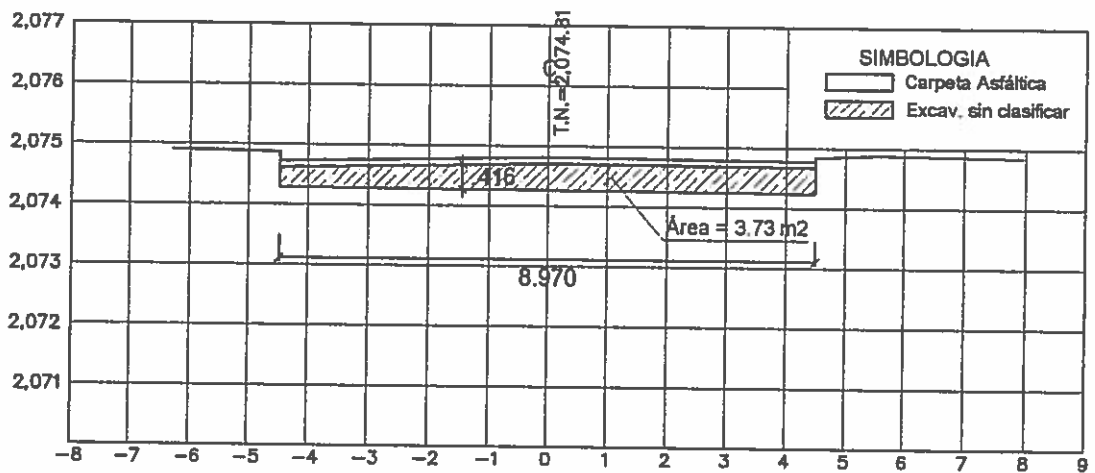
ESTACION 0+180.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



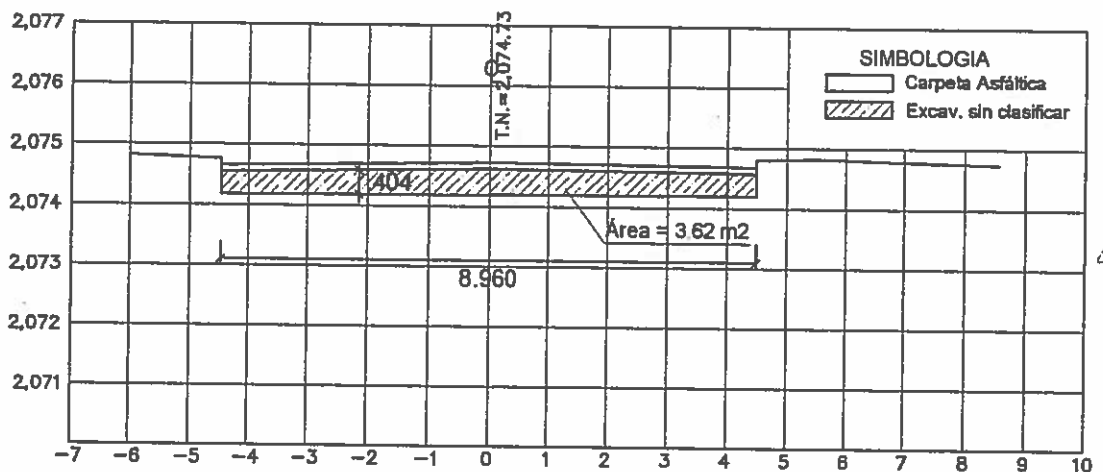
ESTACION 0+190.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



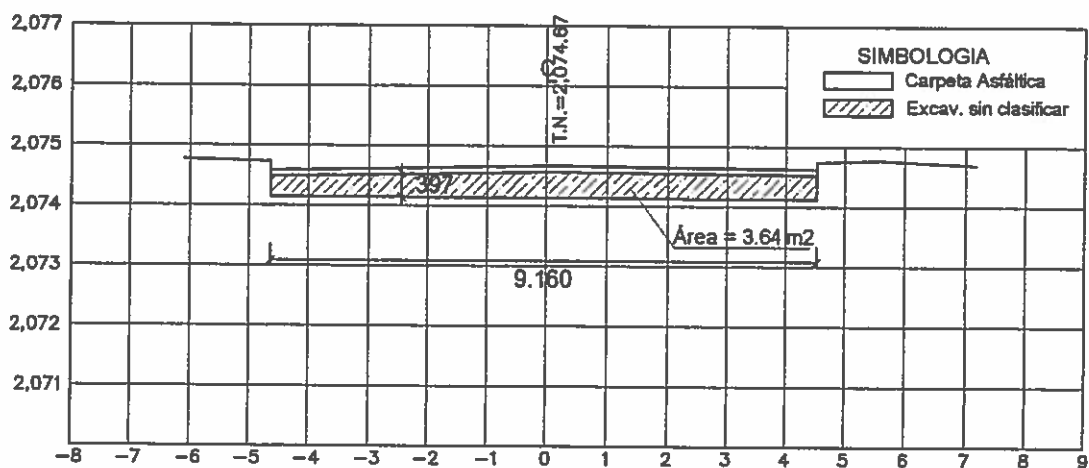
ESTACION 0+200.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



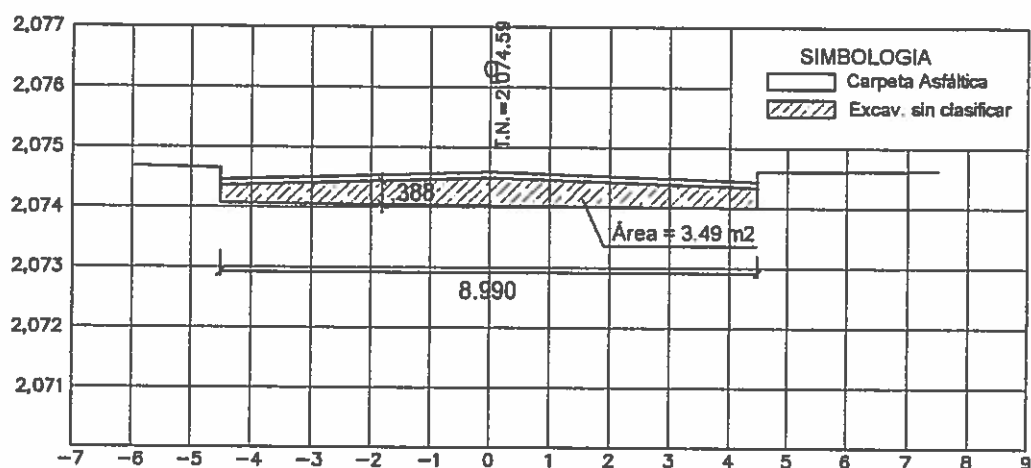
ESTACION 0+210.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



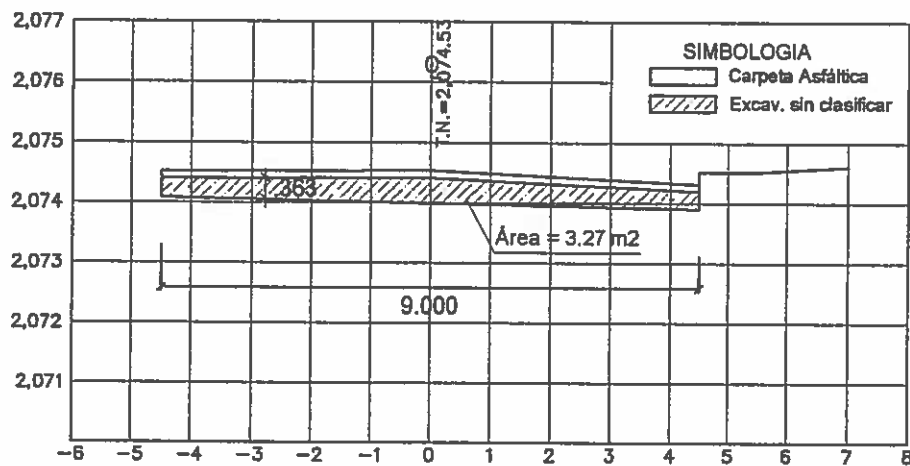
ESTACION 0+220.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+230.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



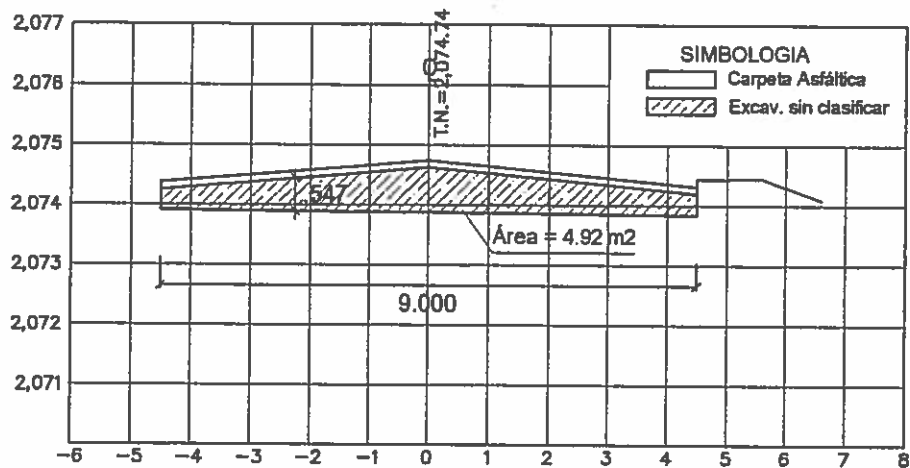
ESTACION 0+240.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



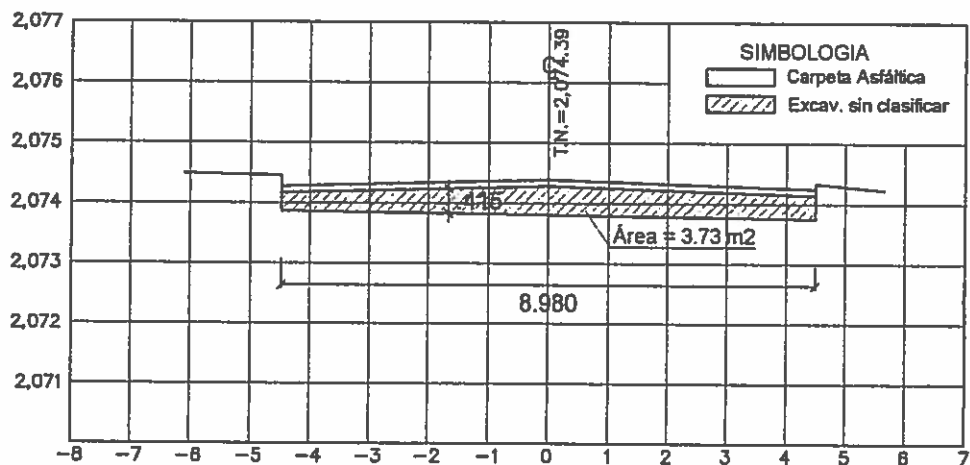
ESTACION 0+250.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

P

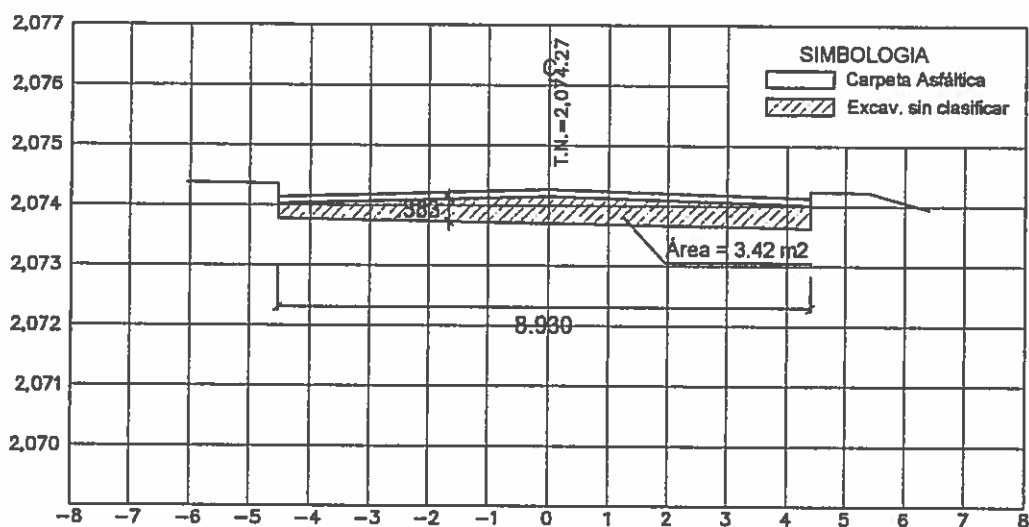
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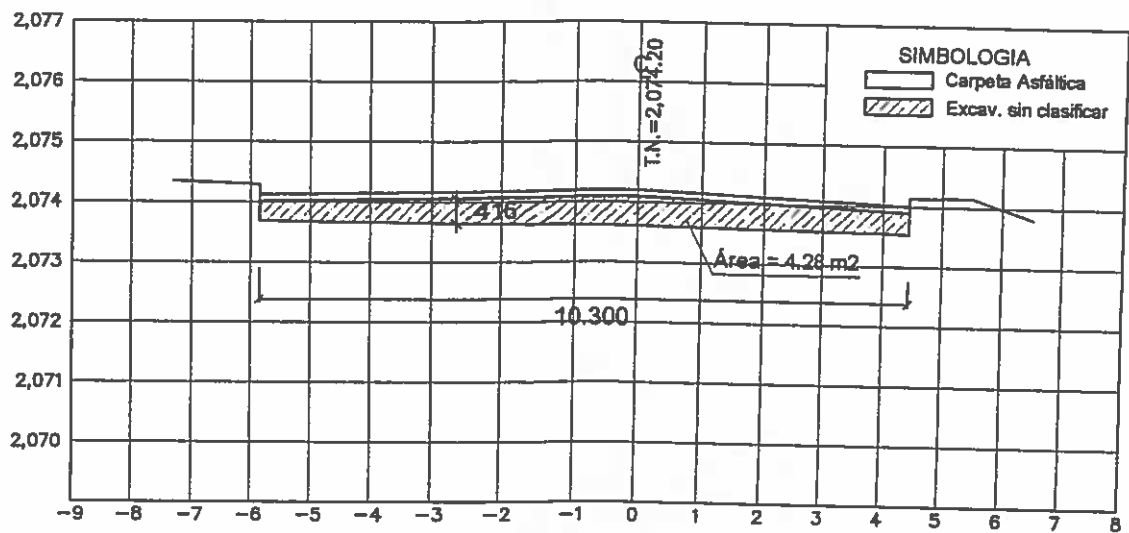
ESTACION 0+260.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



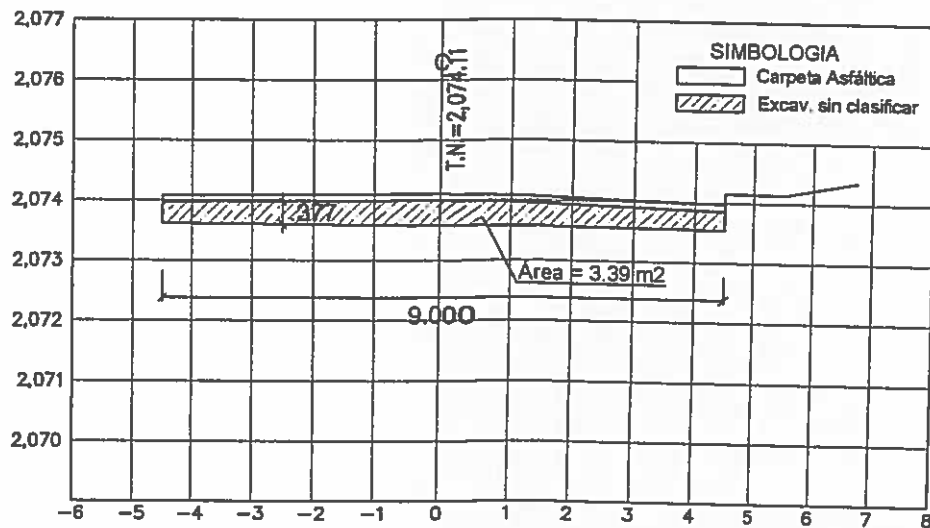
ESTACION 0+270.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



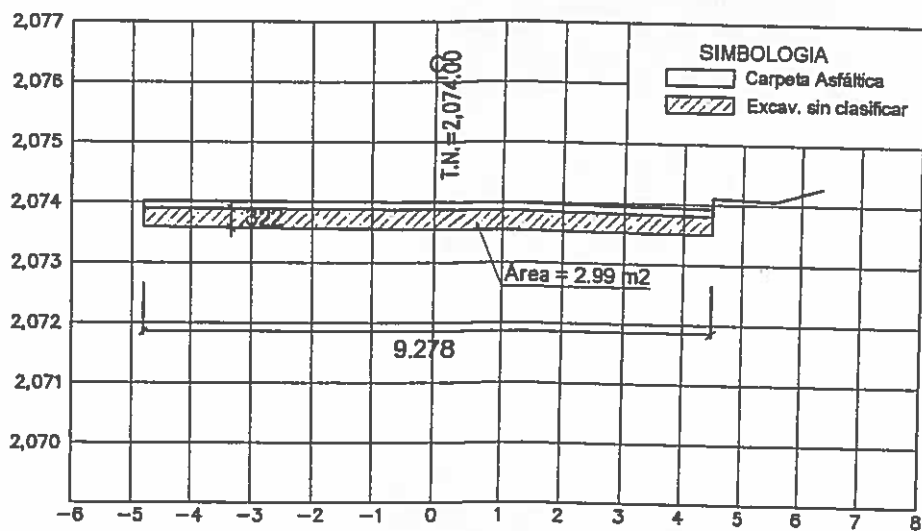
ESTACION 0+280.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



ESTACION 0+290.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



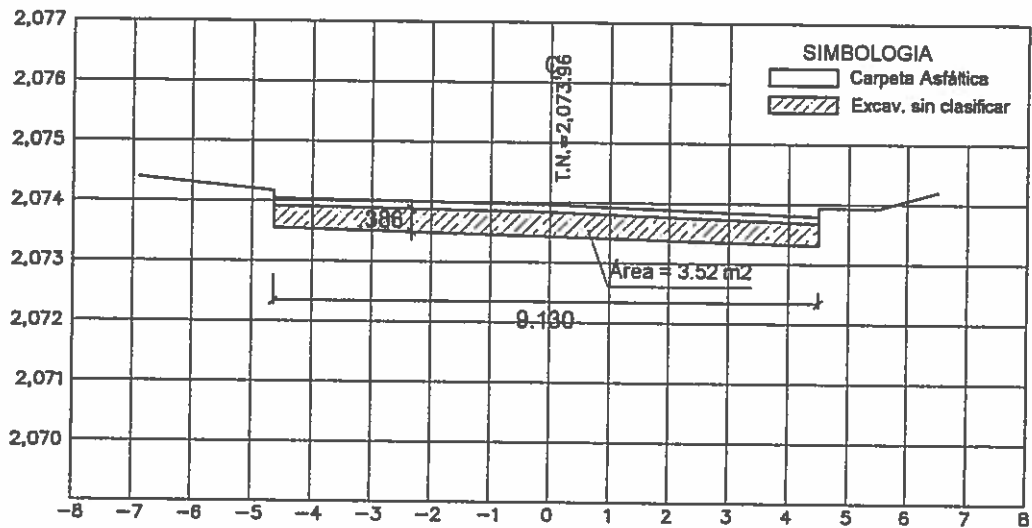
ESTACION 0+300.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



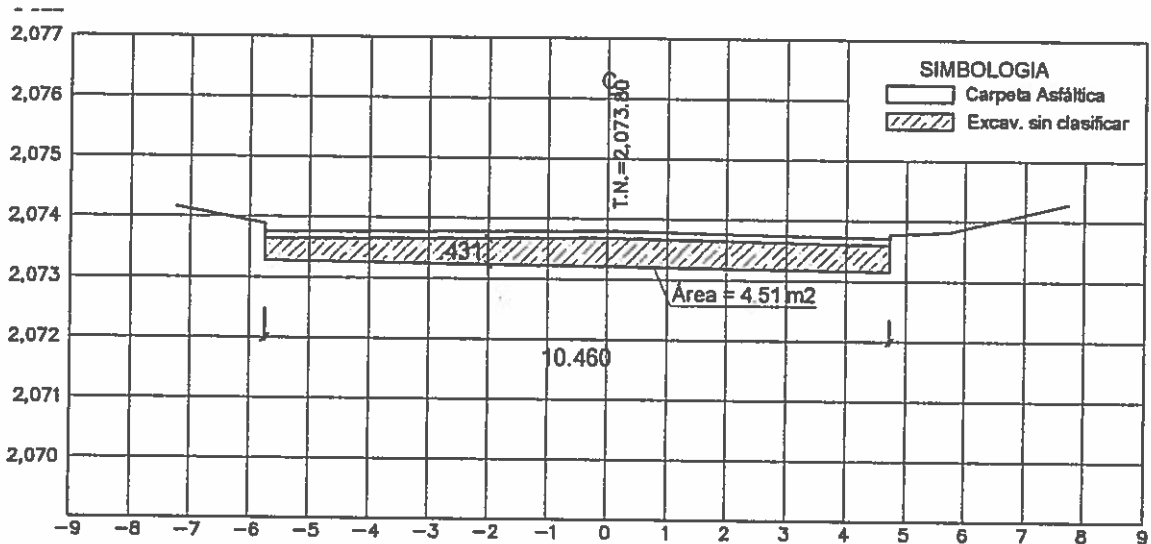
ESTACION 0+310.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

4

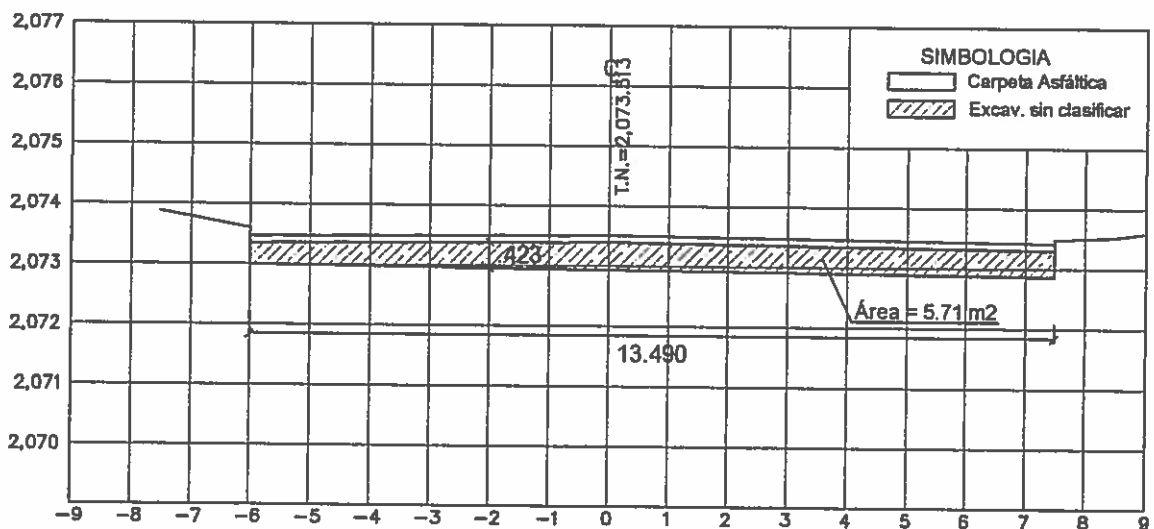
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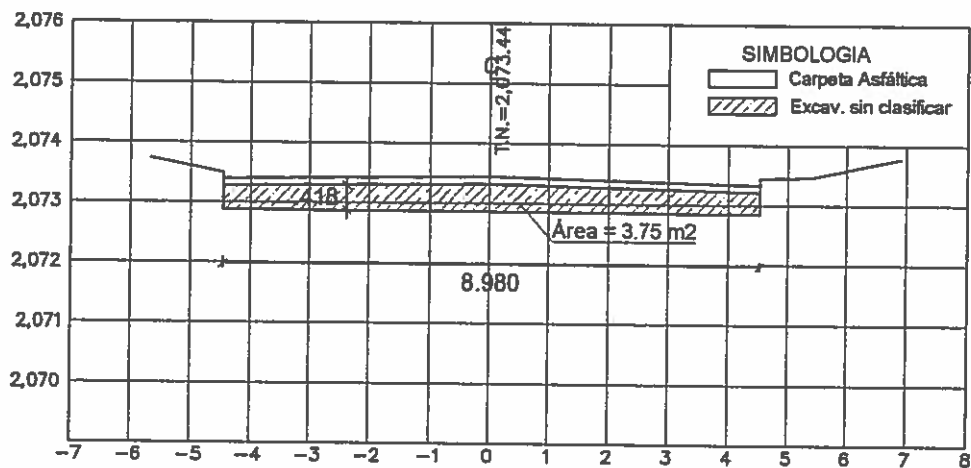
ESTACION 0+320.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



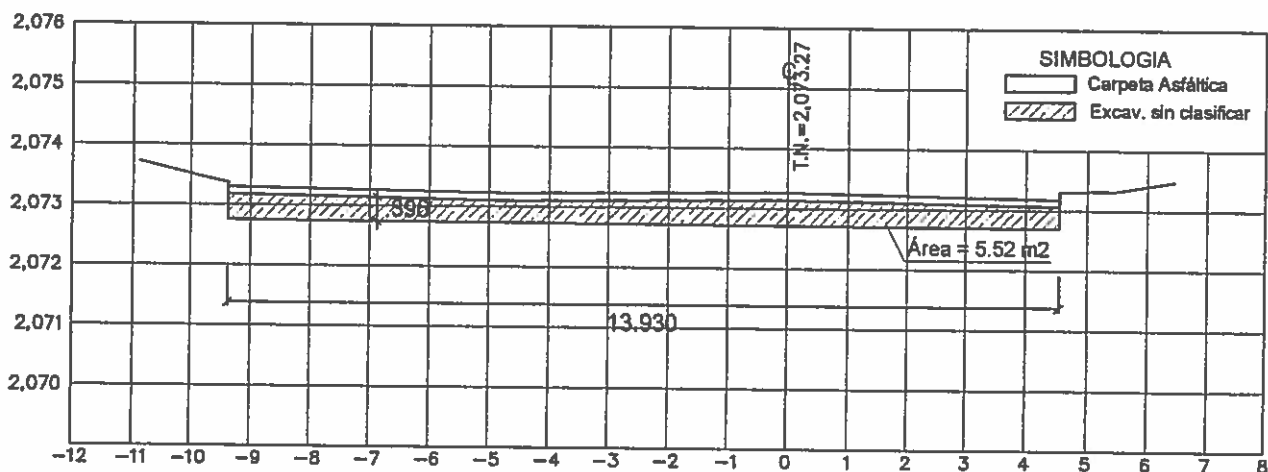
ESTACION 0+330.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



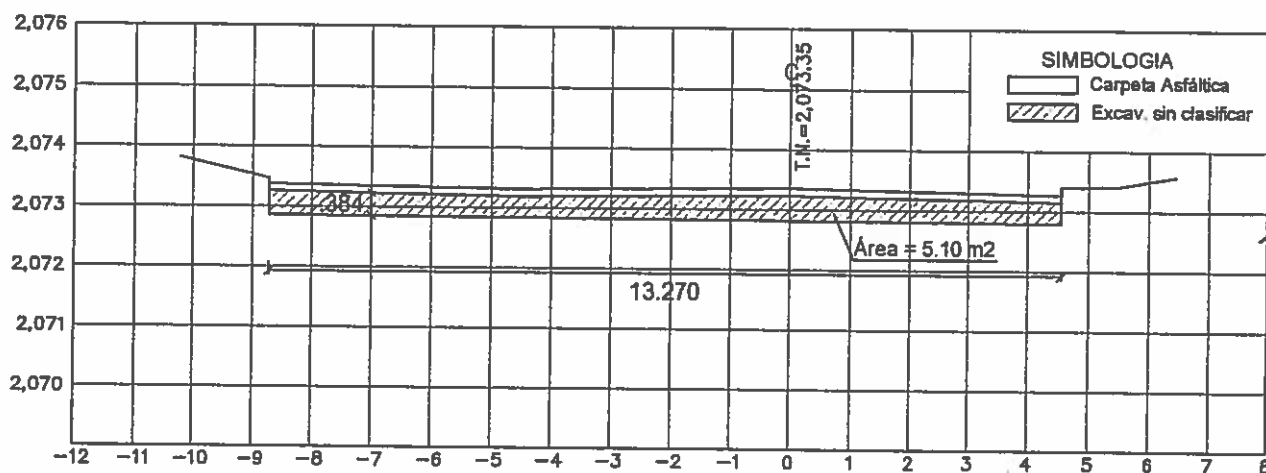
ESTACION 0+345.95
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



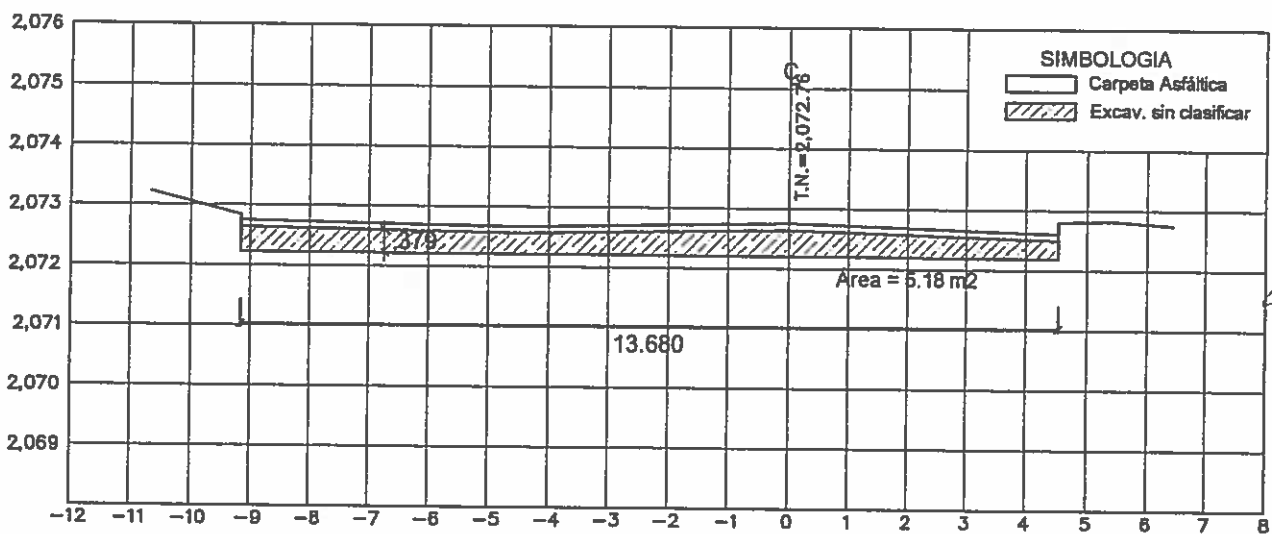
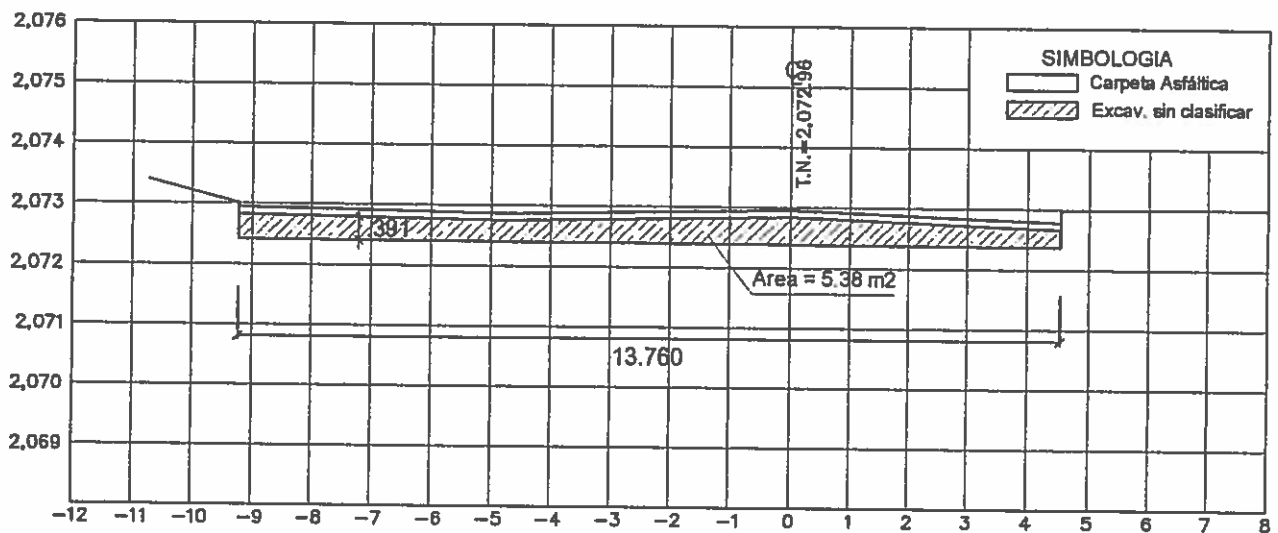
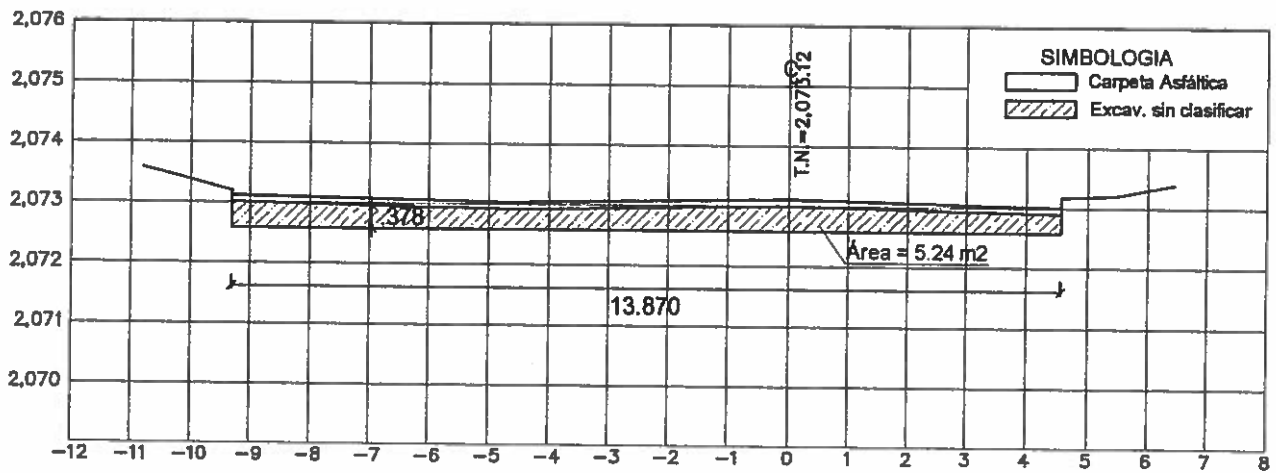
ESTACION 0+350.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

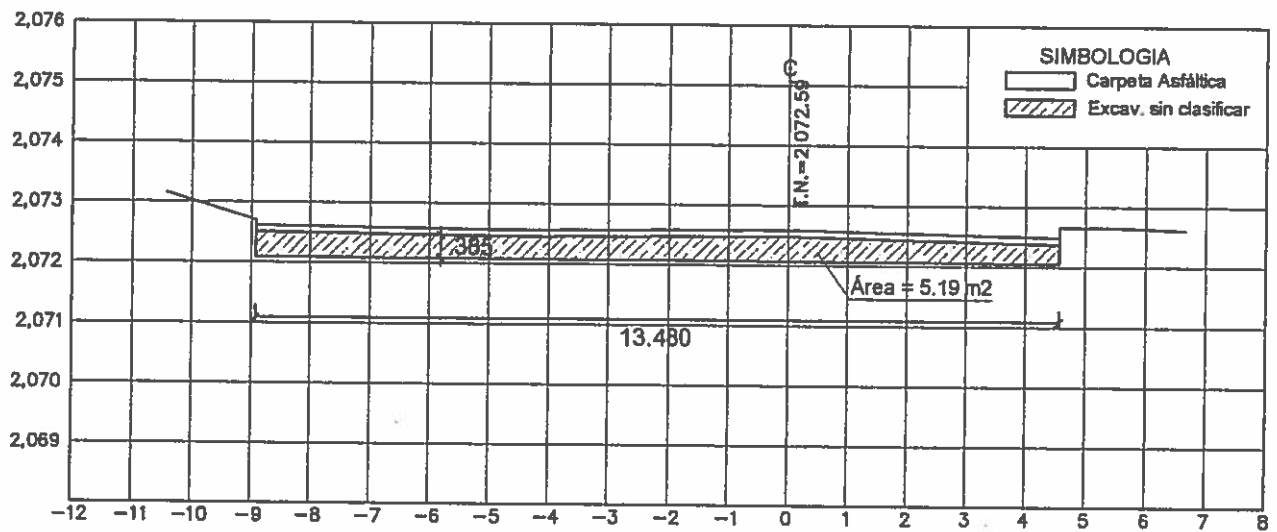


ESTACION 0+360.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

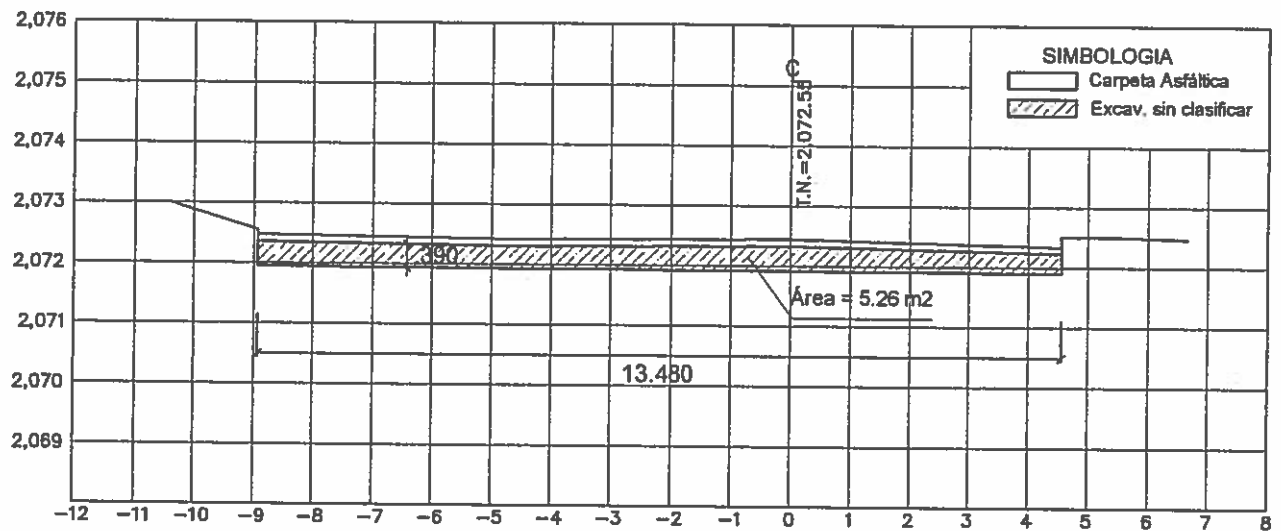


ESTACION 0+365.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

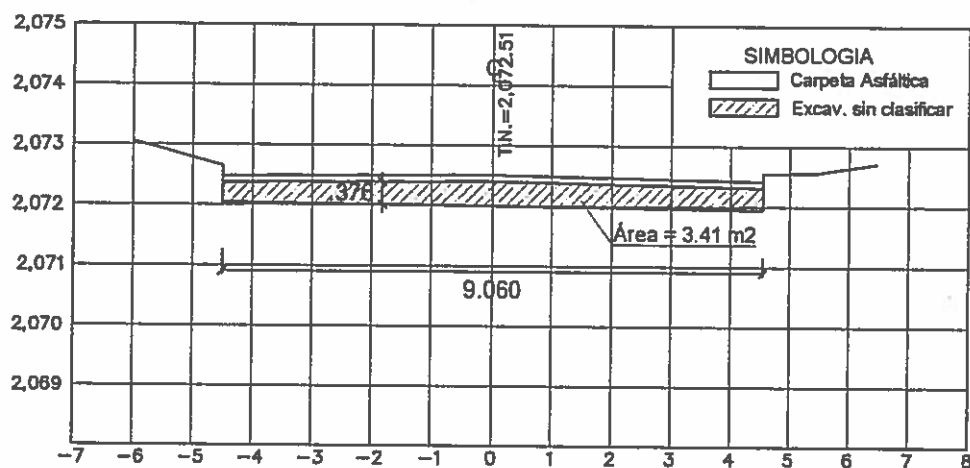




ESTACION 0+400.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

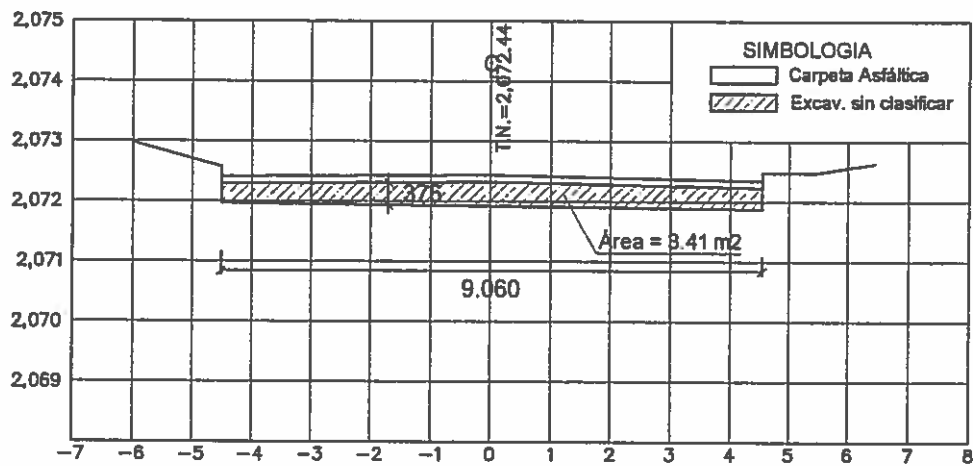


ESTACION 0+402.50
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

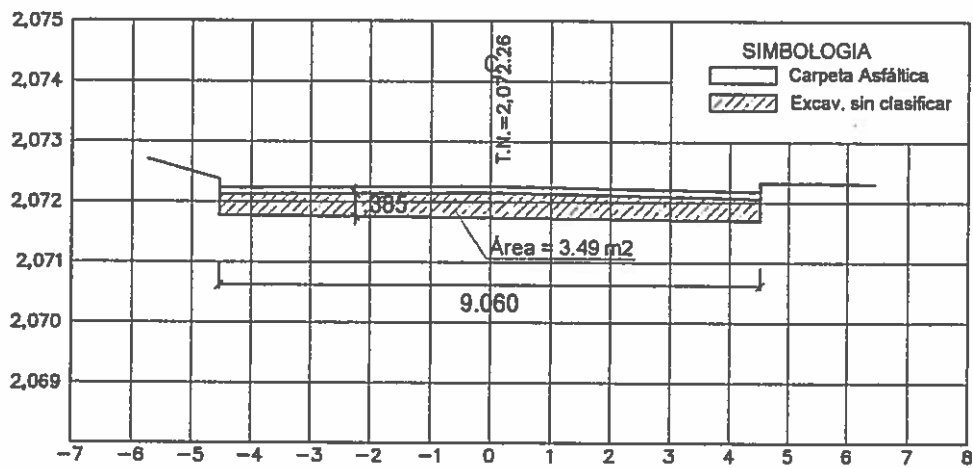


ESTACION 0+405.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

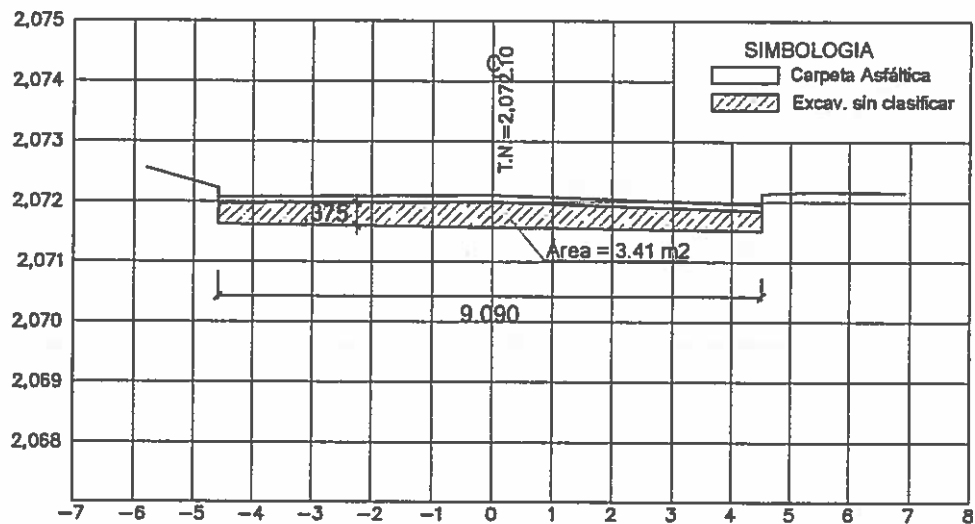
f



ESTACION 0+410.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



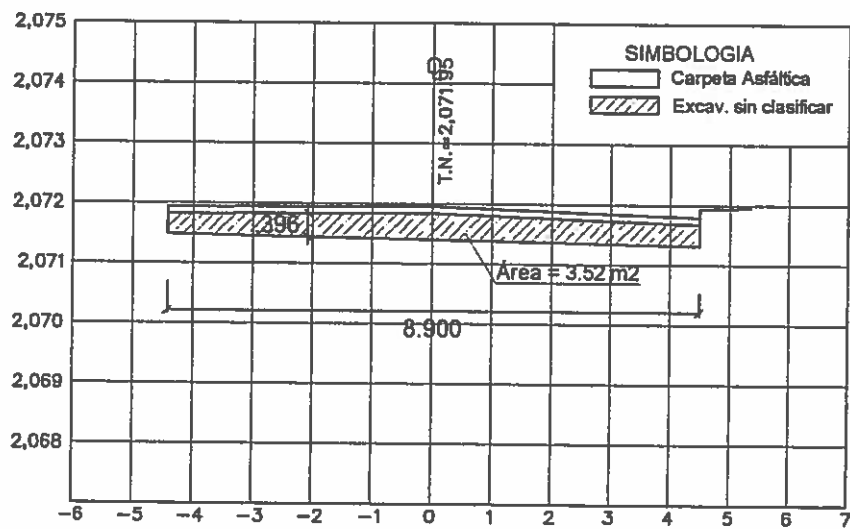
ESTACION 0+420.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



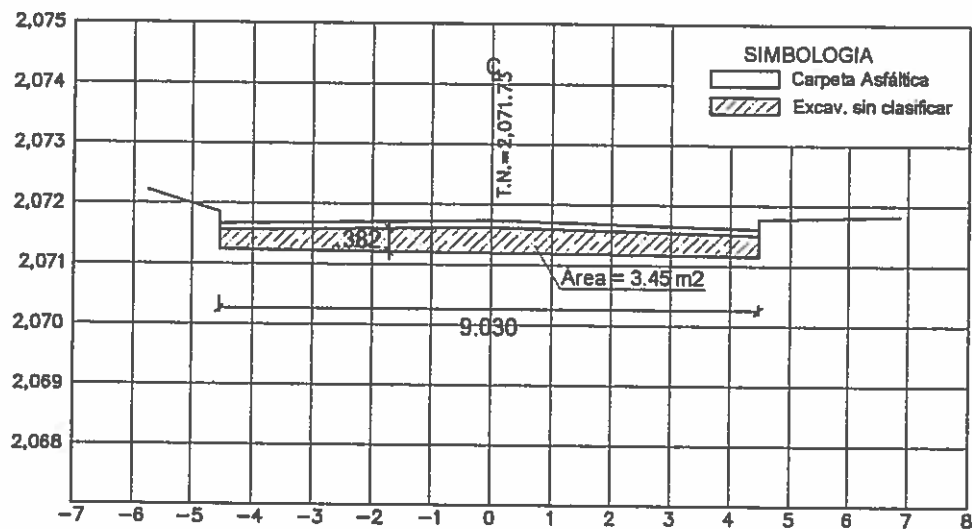
ESTACION 0+430.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

4

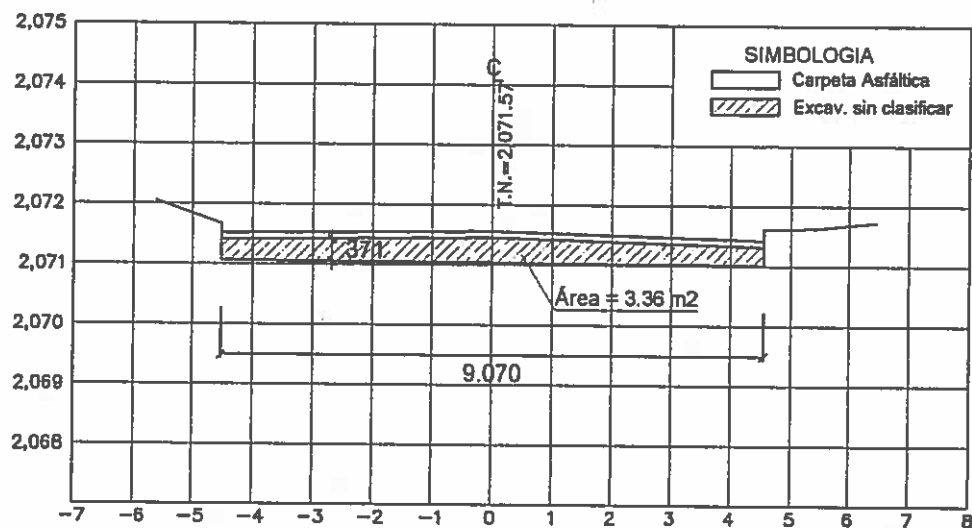
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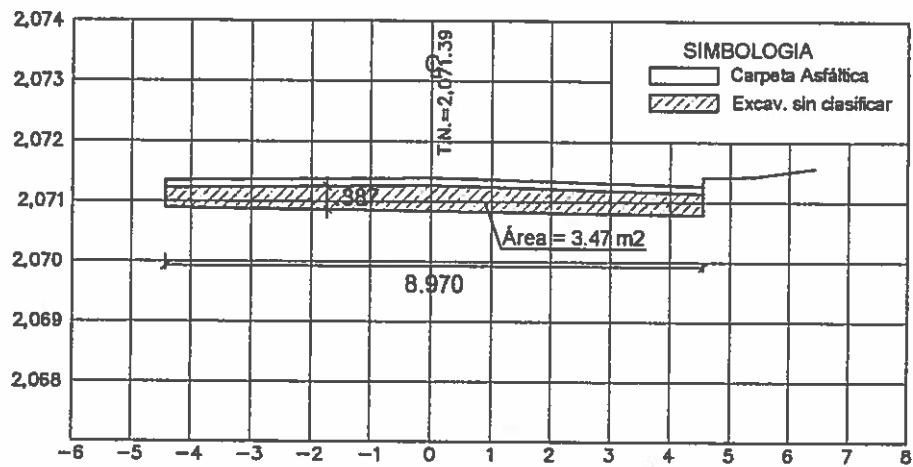
ESTACION 0+440.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+450.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



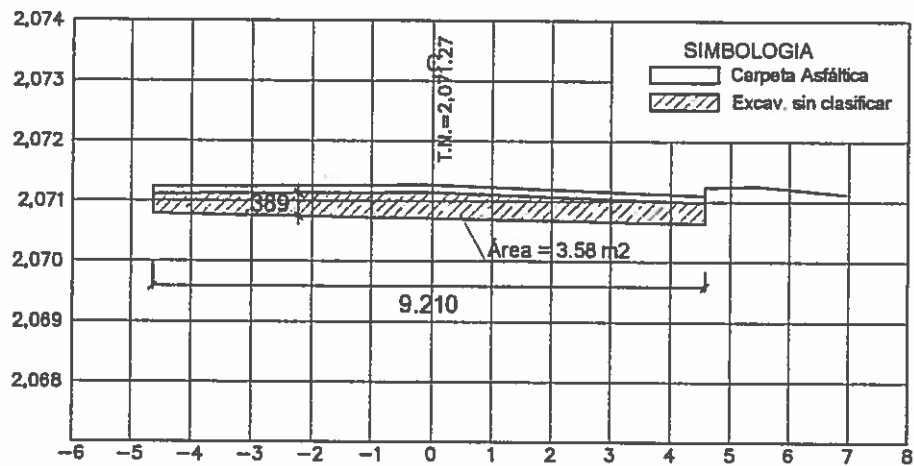
ESTACION 0+460.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+470.00

ESCALA HORIZONTAL 1 : 100

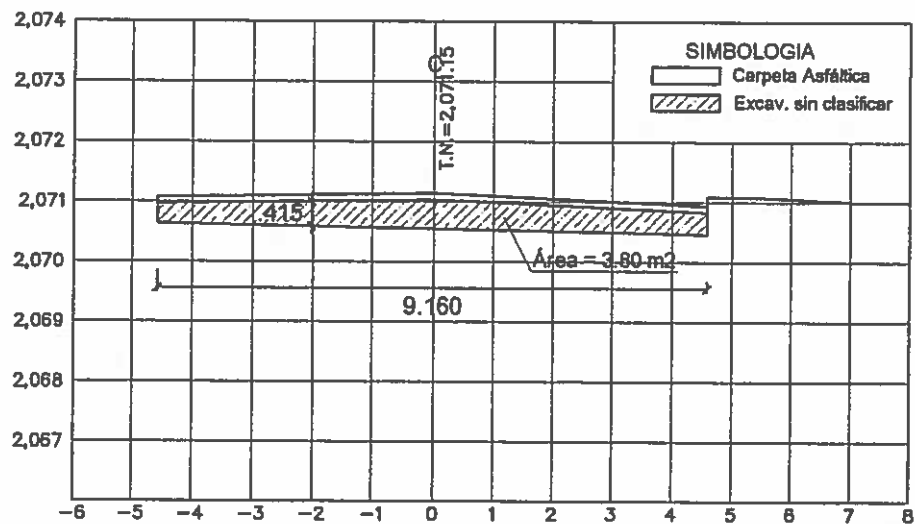
ESCALA VERTICAL 1 : 100



ESTACION 0+480.00

ESCALA HORIZONTAL 1 : 100

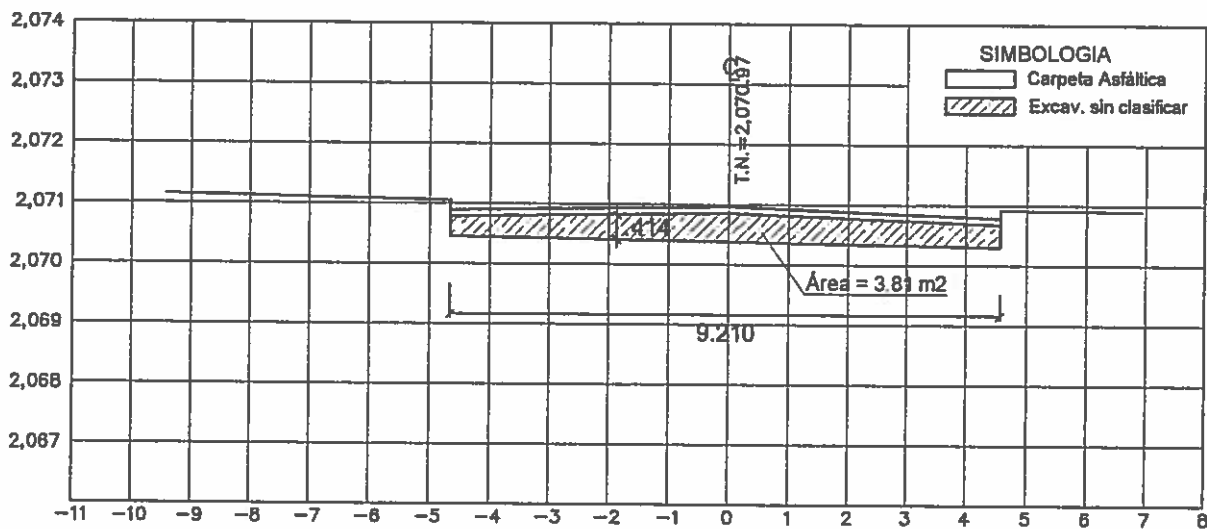
ESCALA VERTICAL 1 : 100



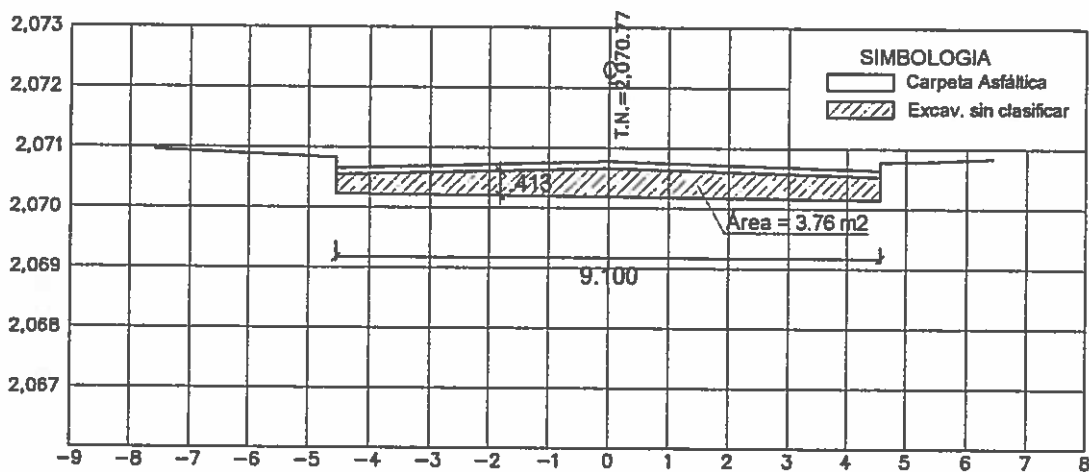
ESTACION 0+490.00

ESCALA HORIZONTAL 1 : 100

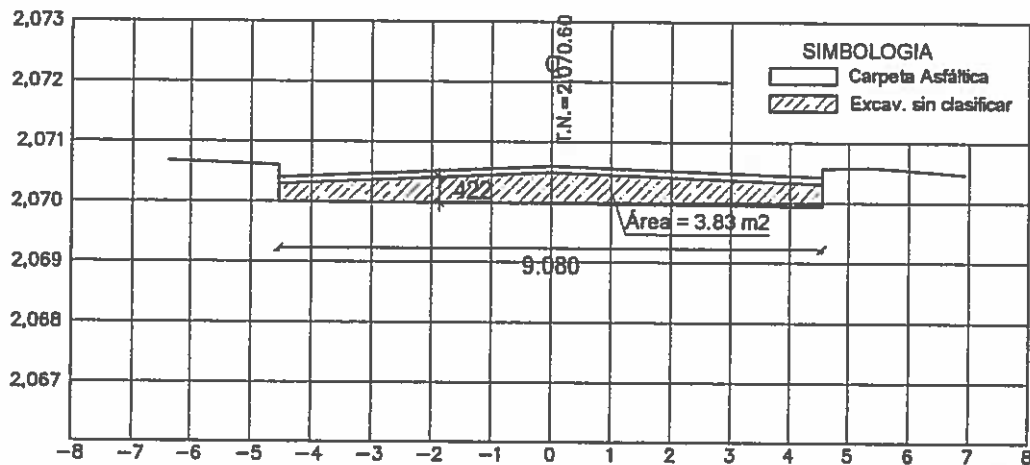
ESCALA VERTICAL 1 : 100



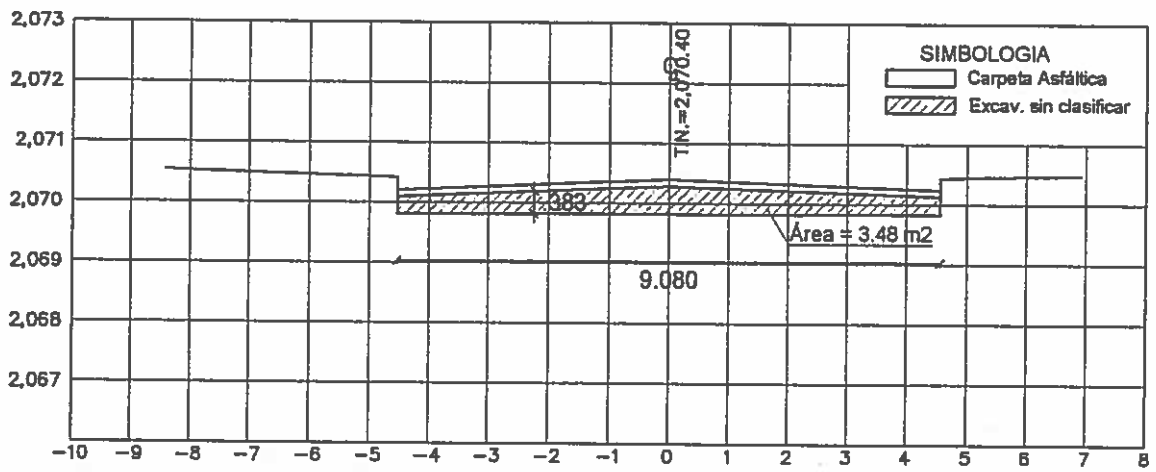
ESTACION 0+500.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



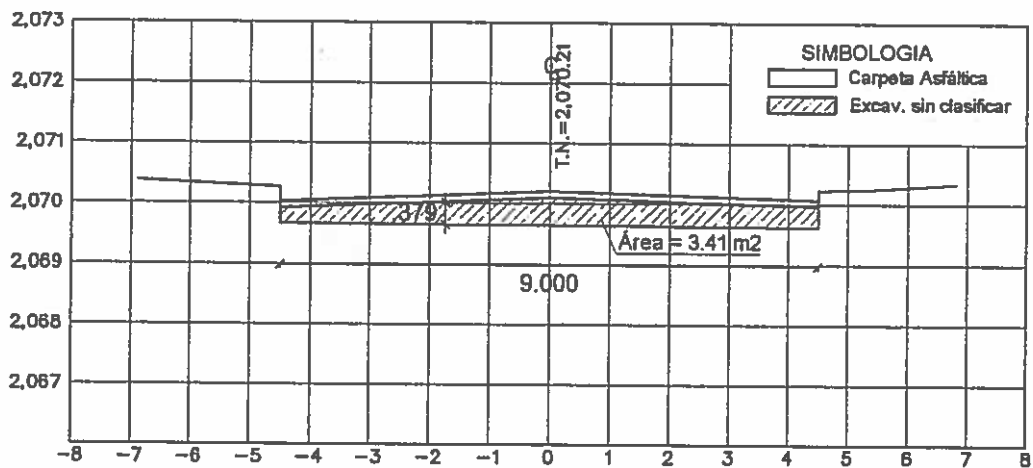
ESTACION 0+510.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



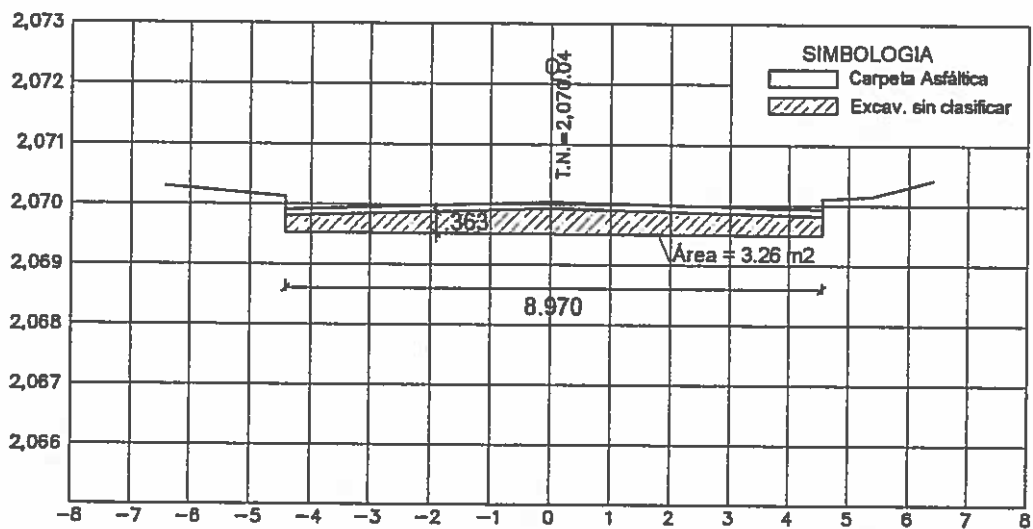
ESTACION 0+520.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



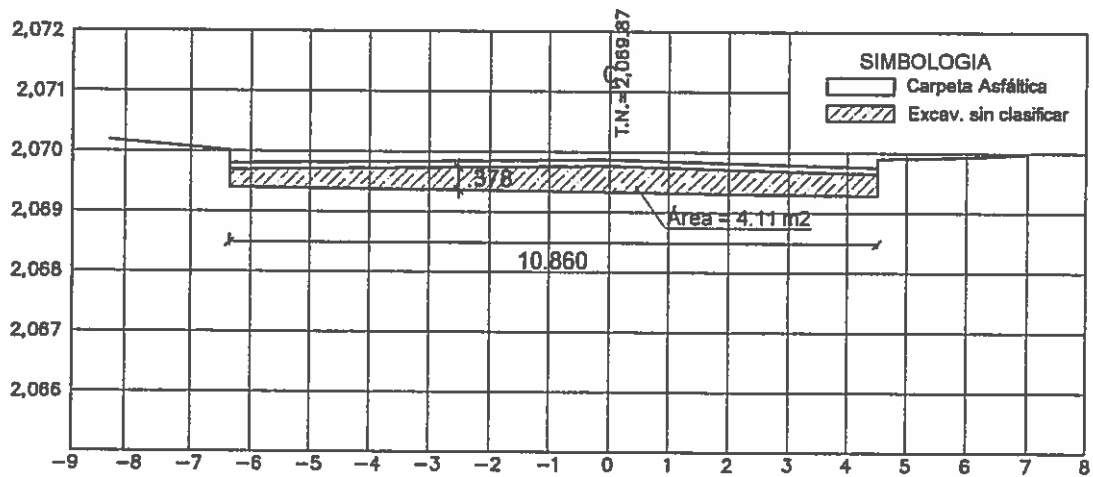
ESTACION 0+530.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



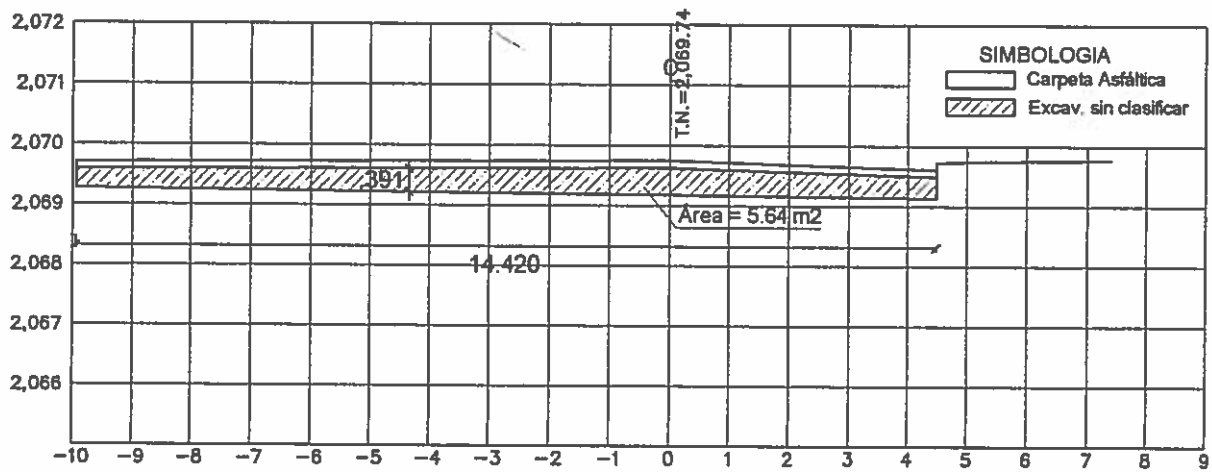
ESTACION 0+540.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



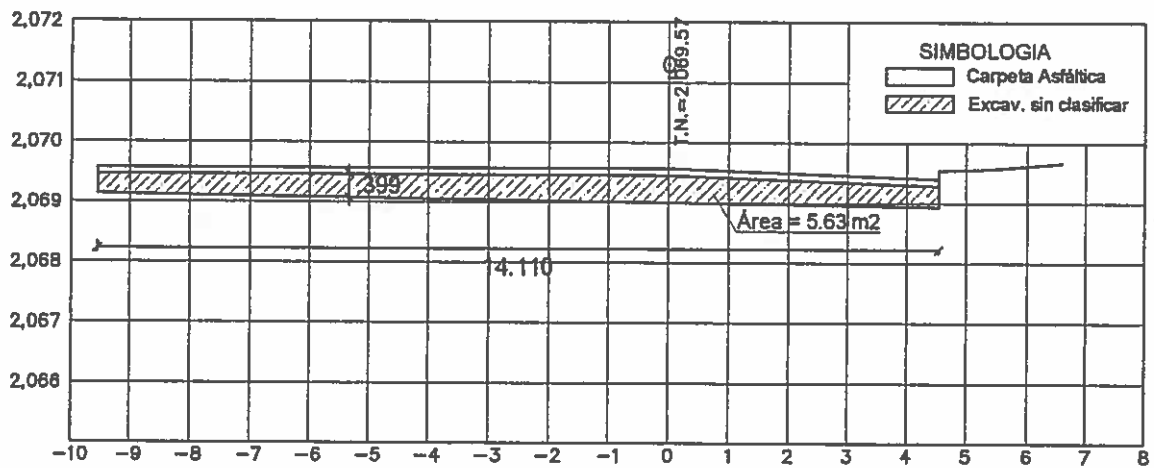
ESTACION 0+550.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



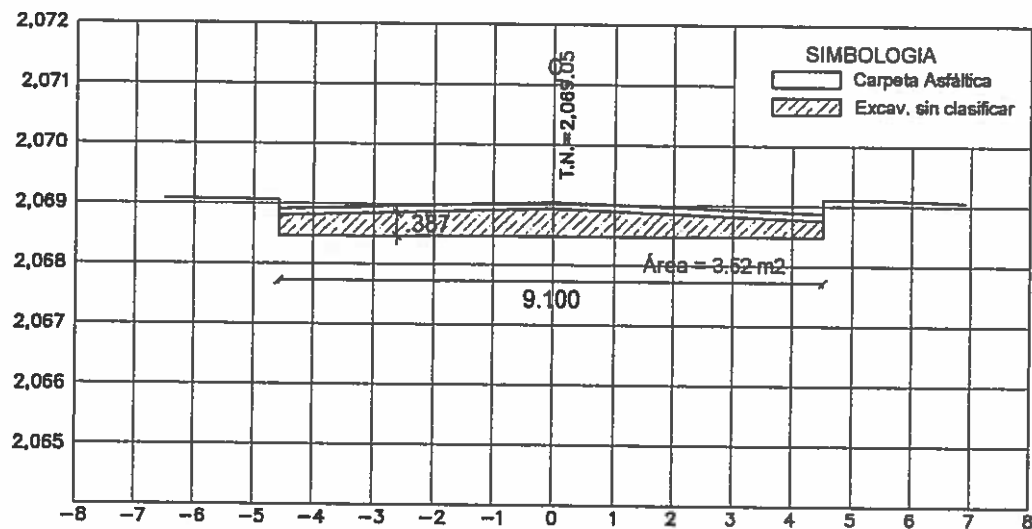
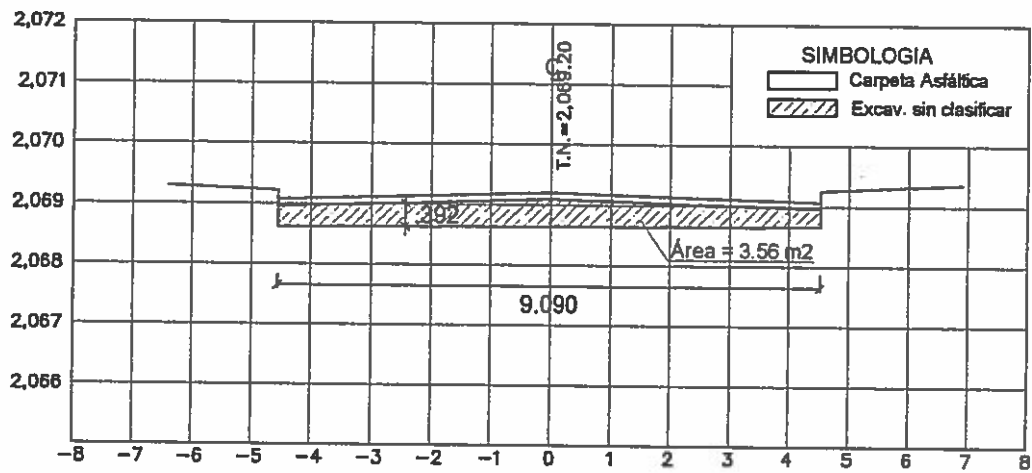
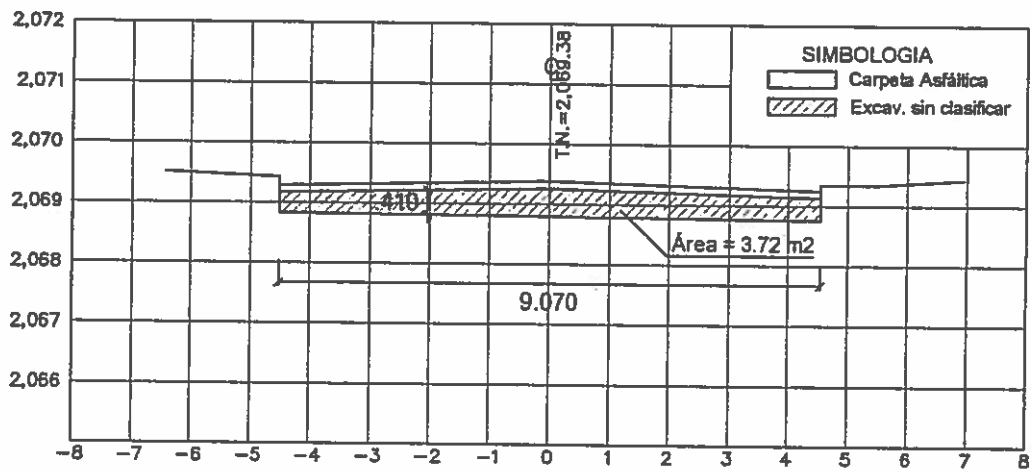
ESTACION 0+560.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

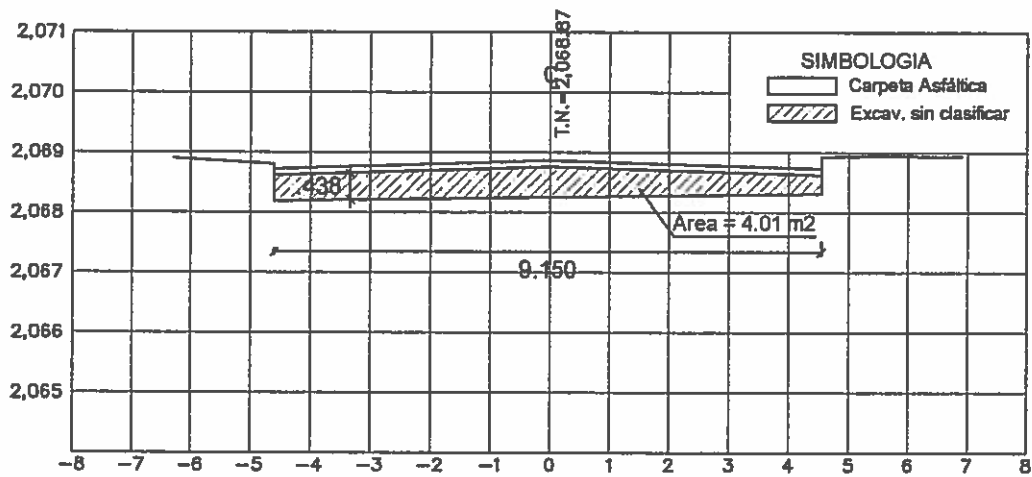


ESTACION 0+570.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

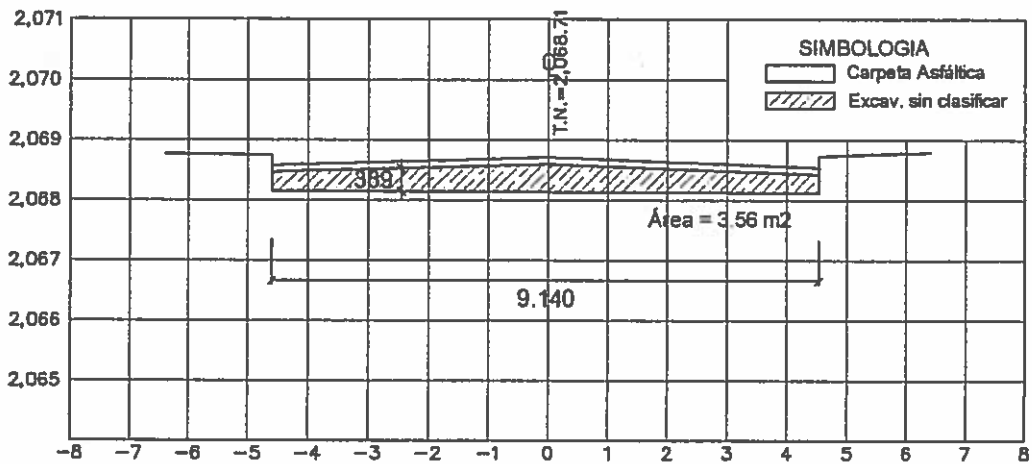


ESTACION 0+580.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

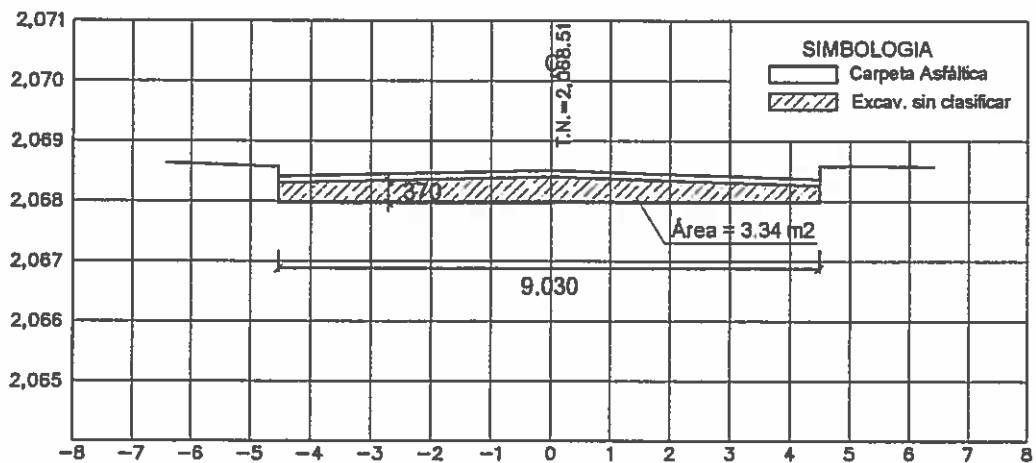




ESTACION 0+620.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

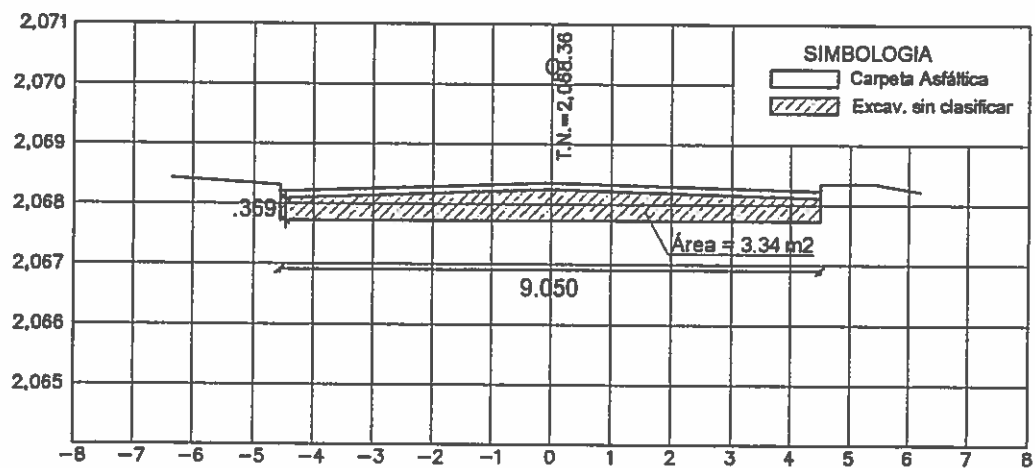


ESTACION 0+630.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



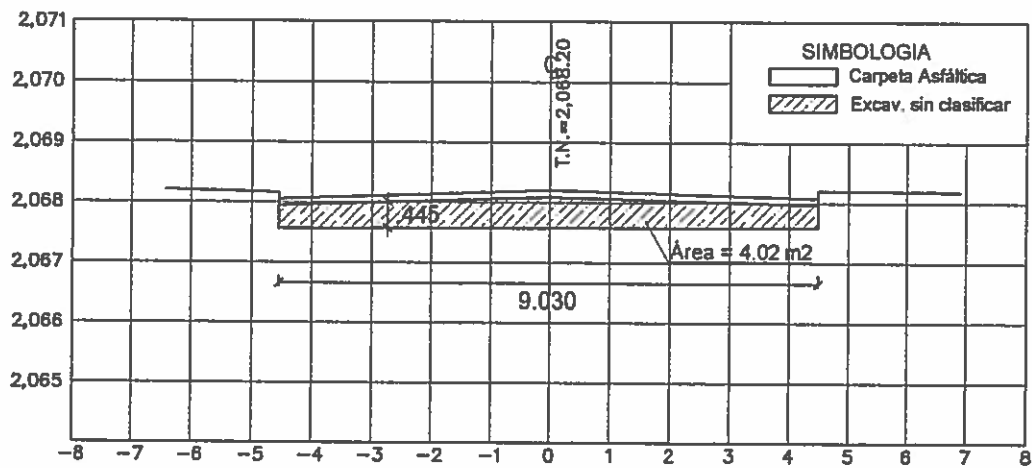
ESTACION 0+640.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

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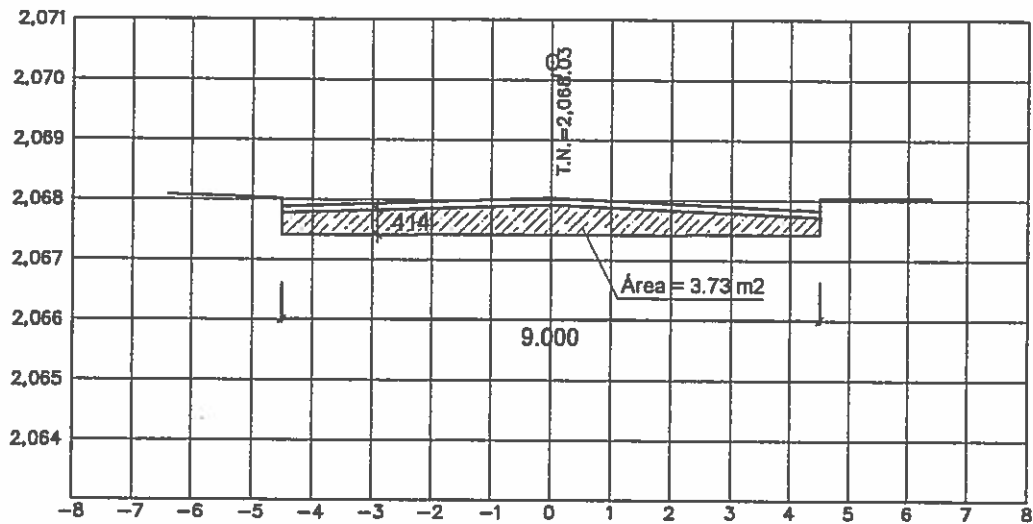
ESTACION 0+650.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



ESTACION 0+660.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

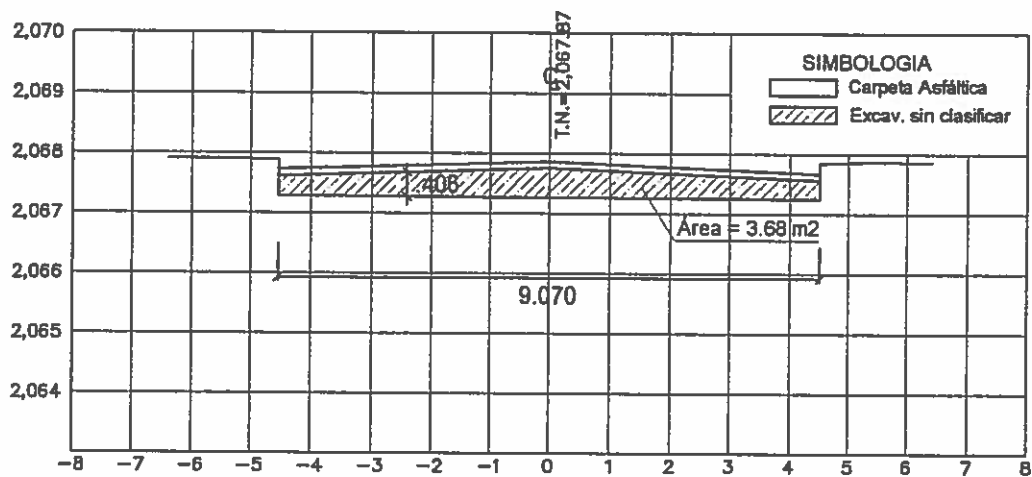


ESTACION 0+670.00

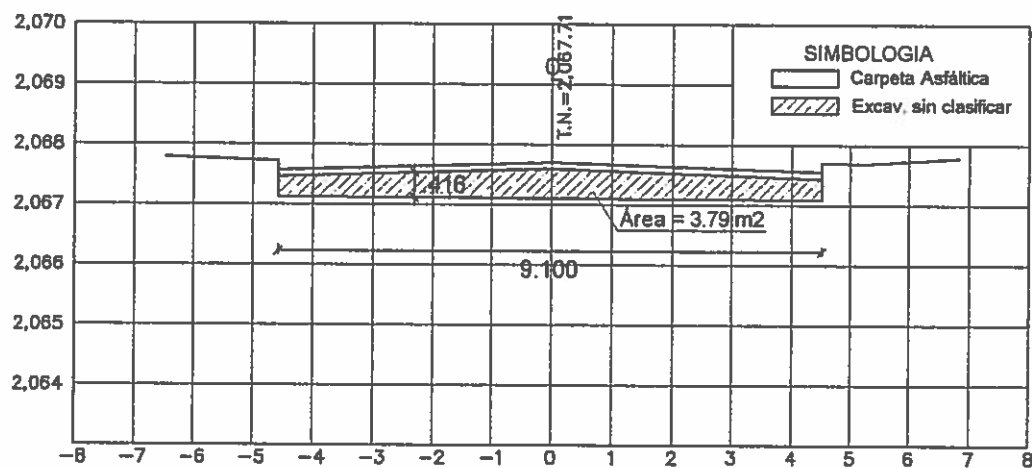
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

4

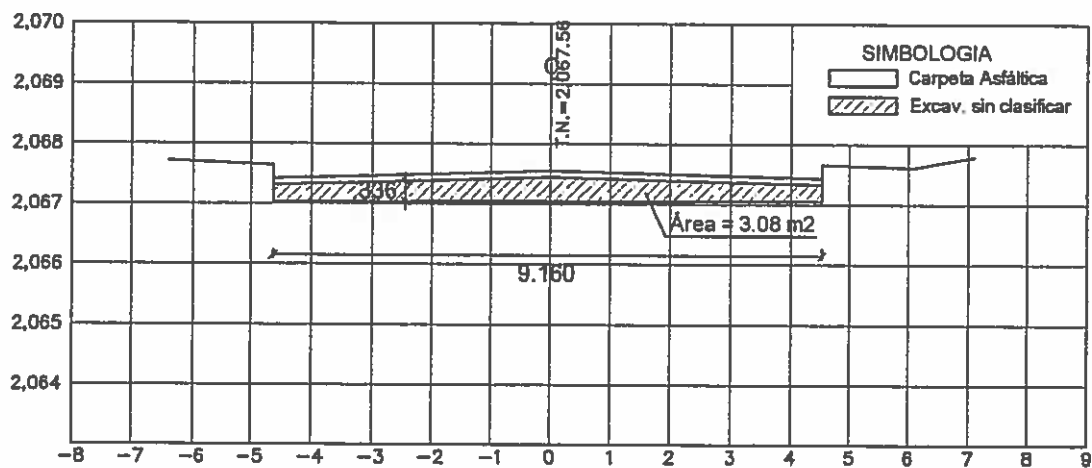
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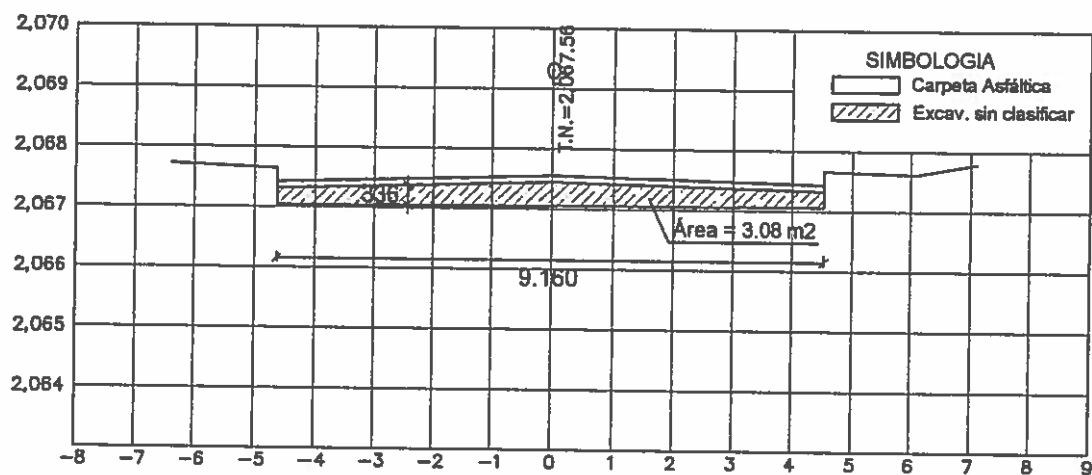
ESTACION 0+680.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



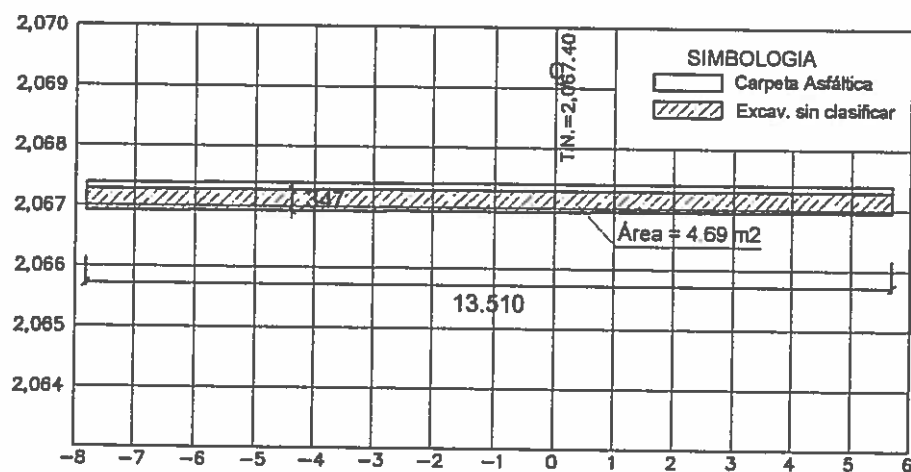
ESTACION 0+690.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



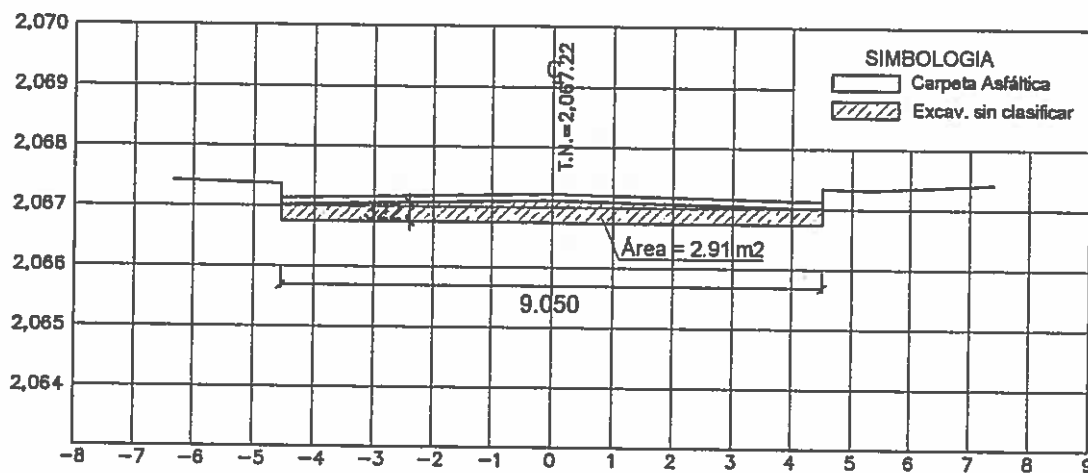
ESTACION 0+700.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



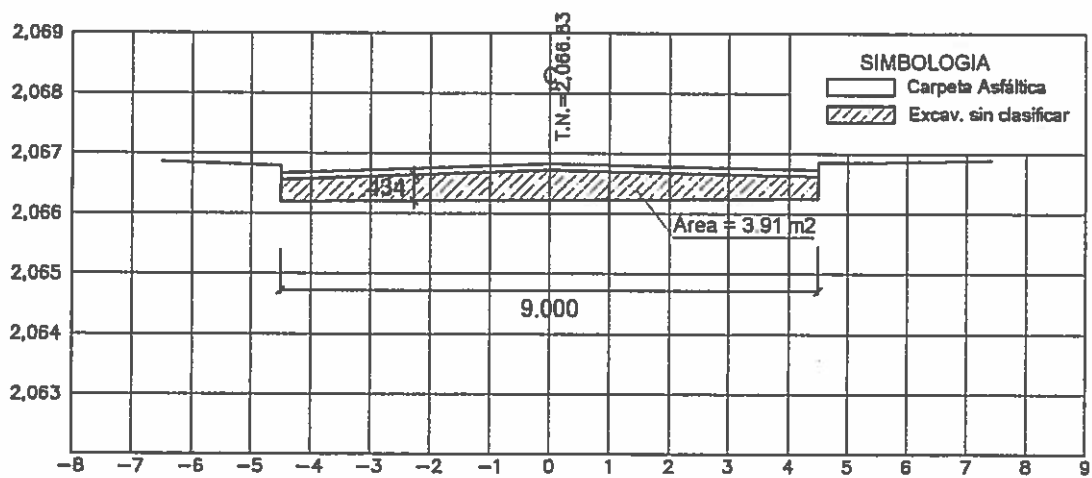
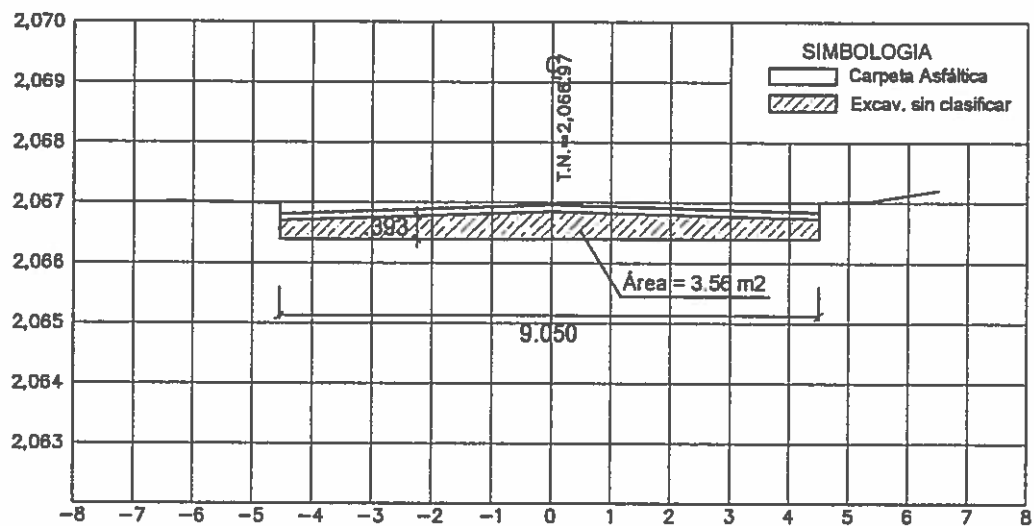
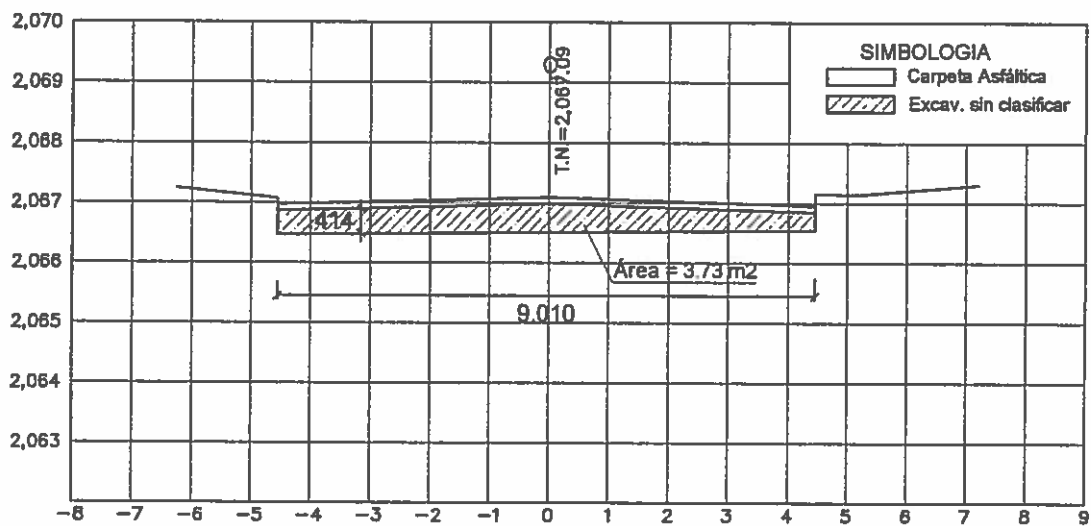
ESTACION 0+700.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

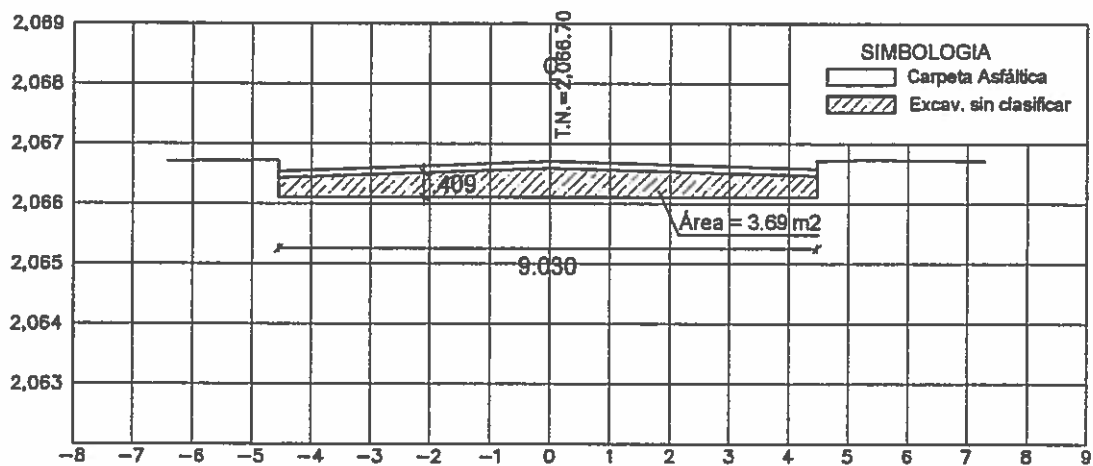


ESTACION 0+710.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

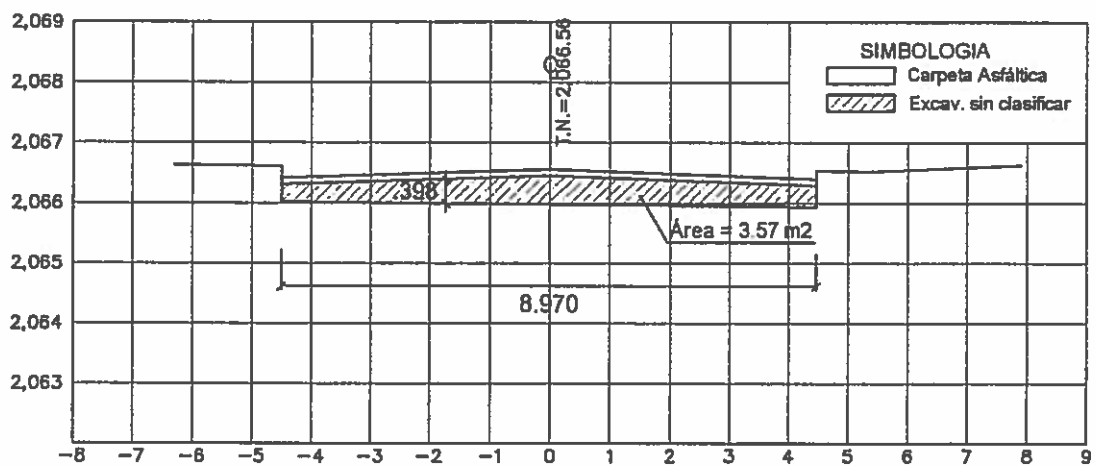


ESTACION 0+720.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

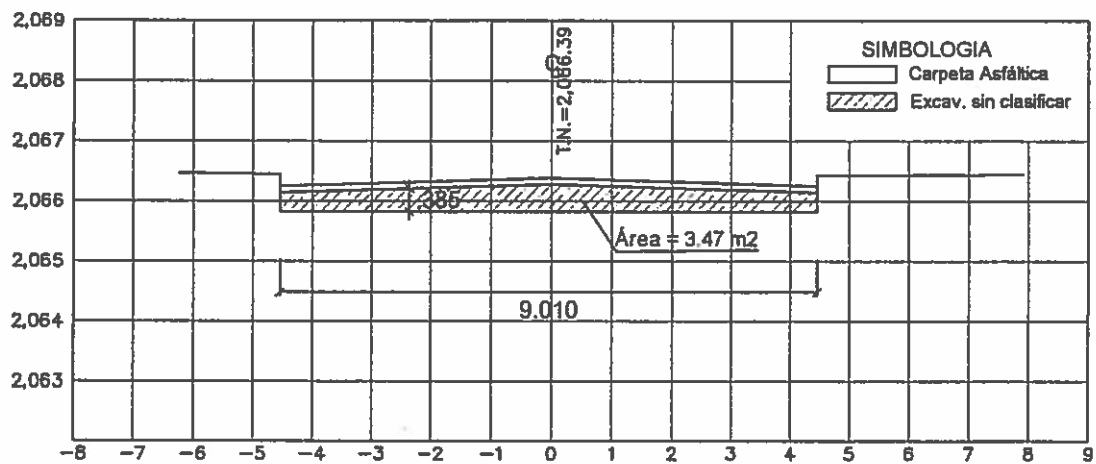




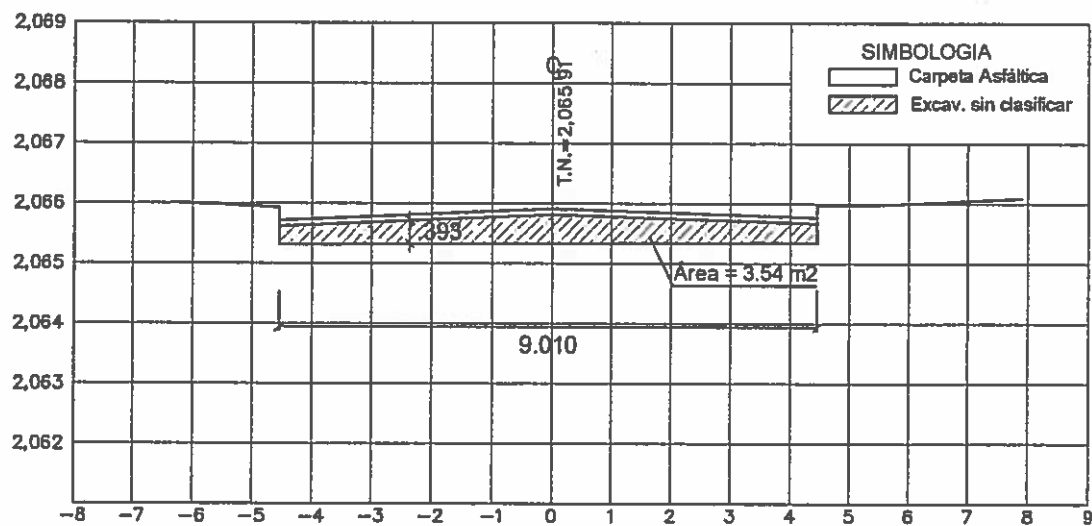
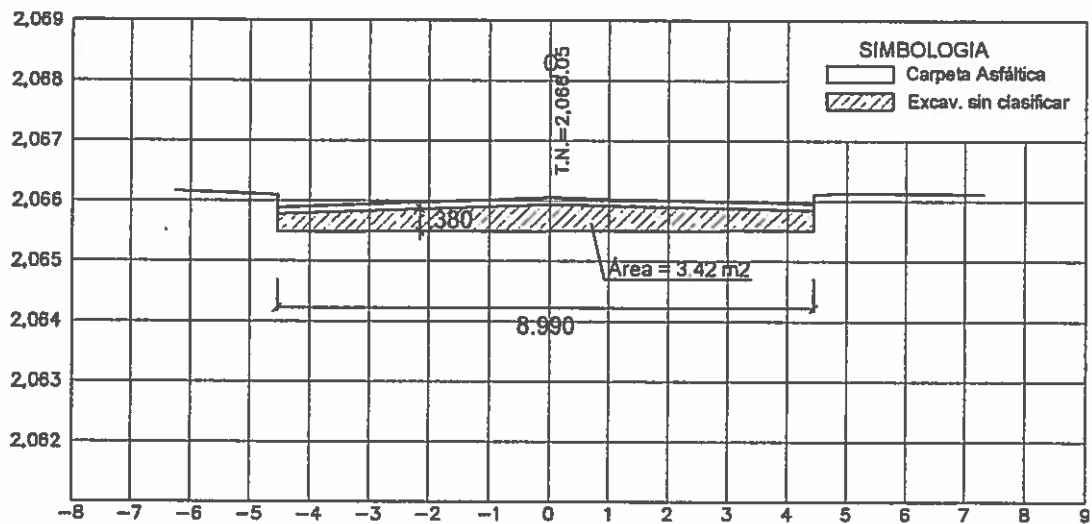
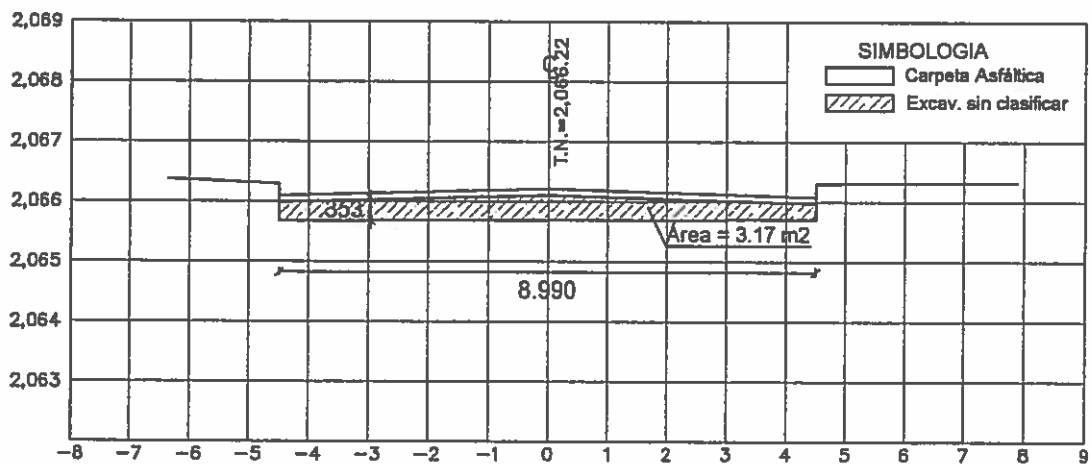
ESTACION 0+760.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



ESTACION 0+770.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

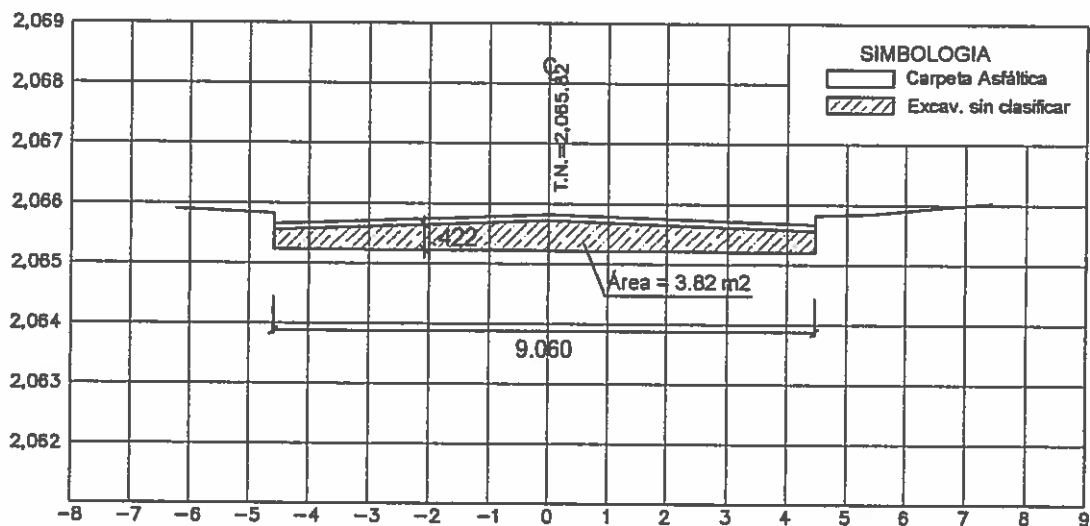


ESTACION 0+780.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

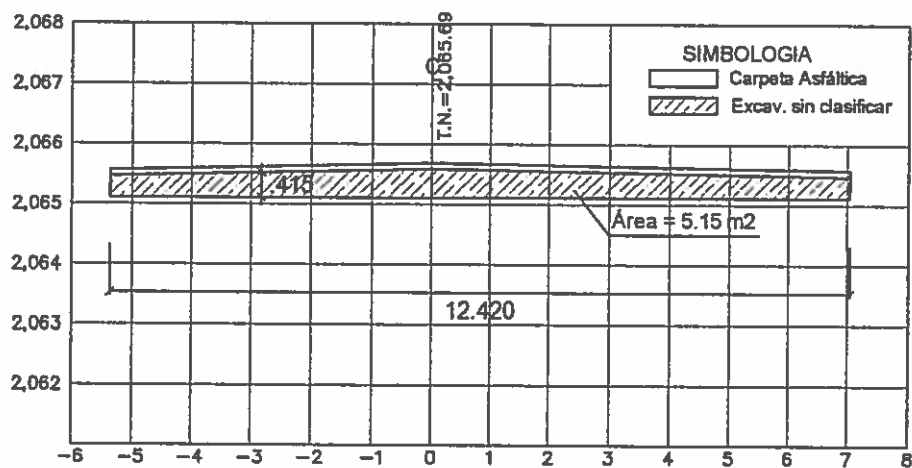


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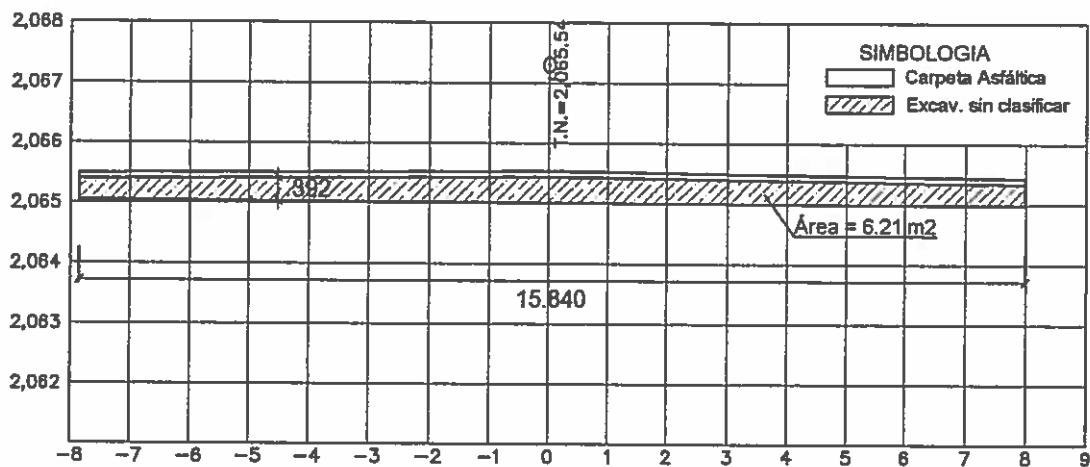
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ESTACION 0+820.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

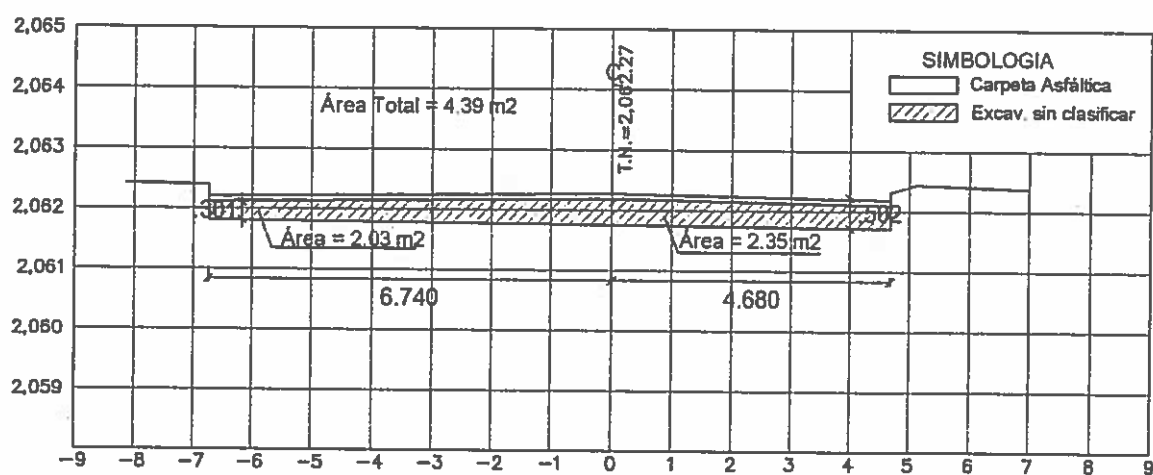


ESTACION 0+830.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



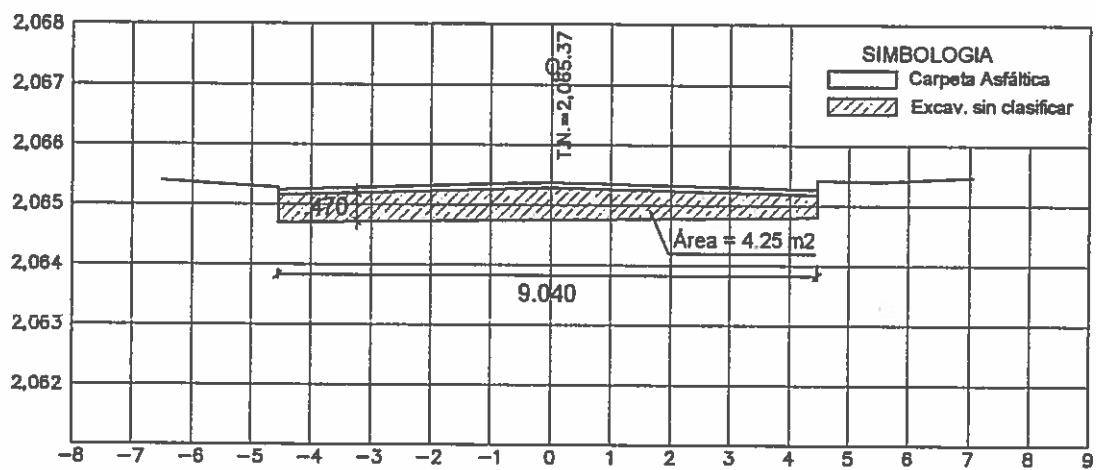
ESTACION 0+840.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLÓN

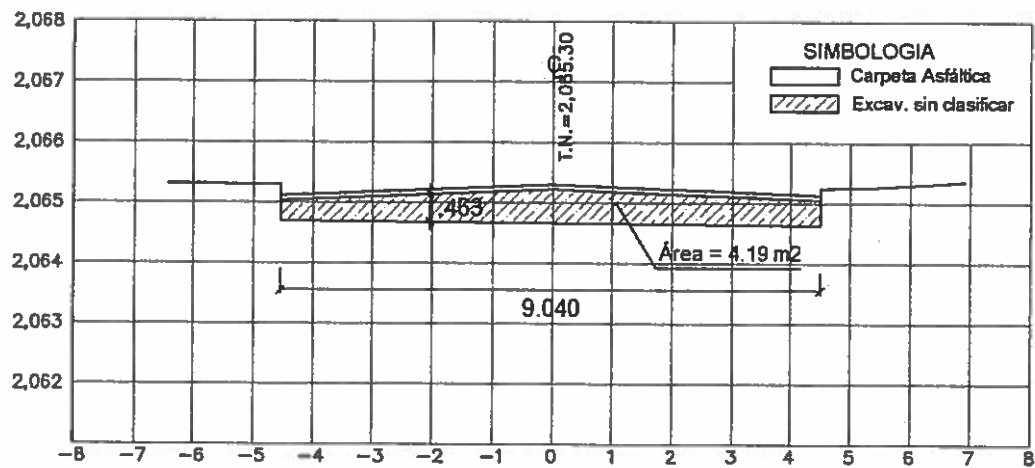


ESTACION 1+107.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

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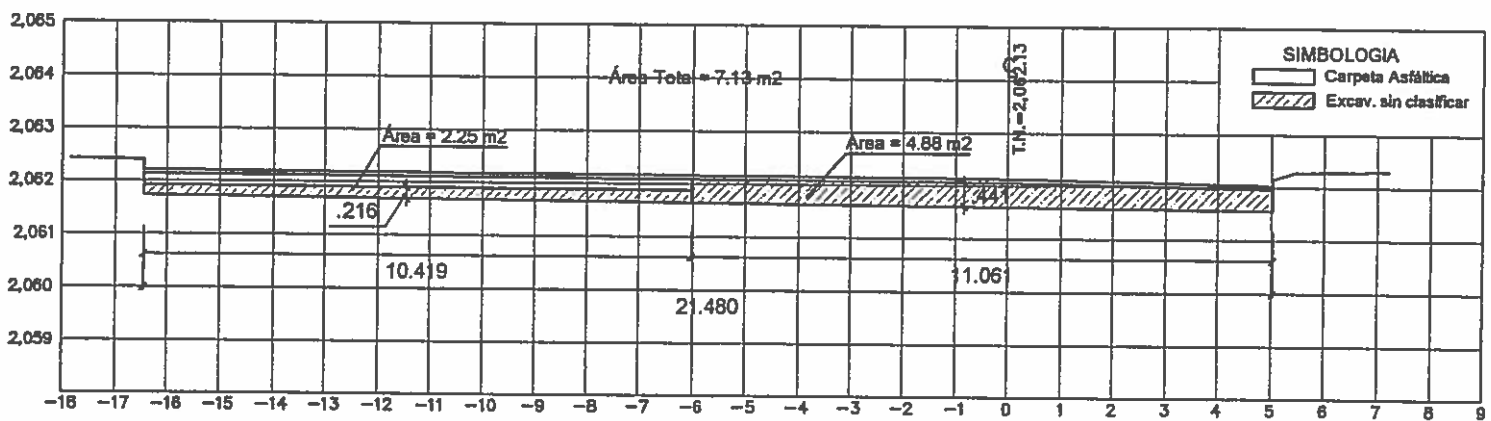


ESTACION 0+850.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

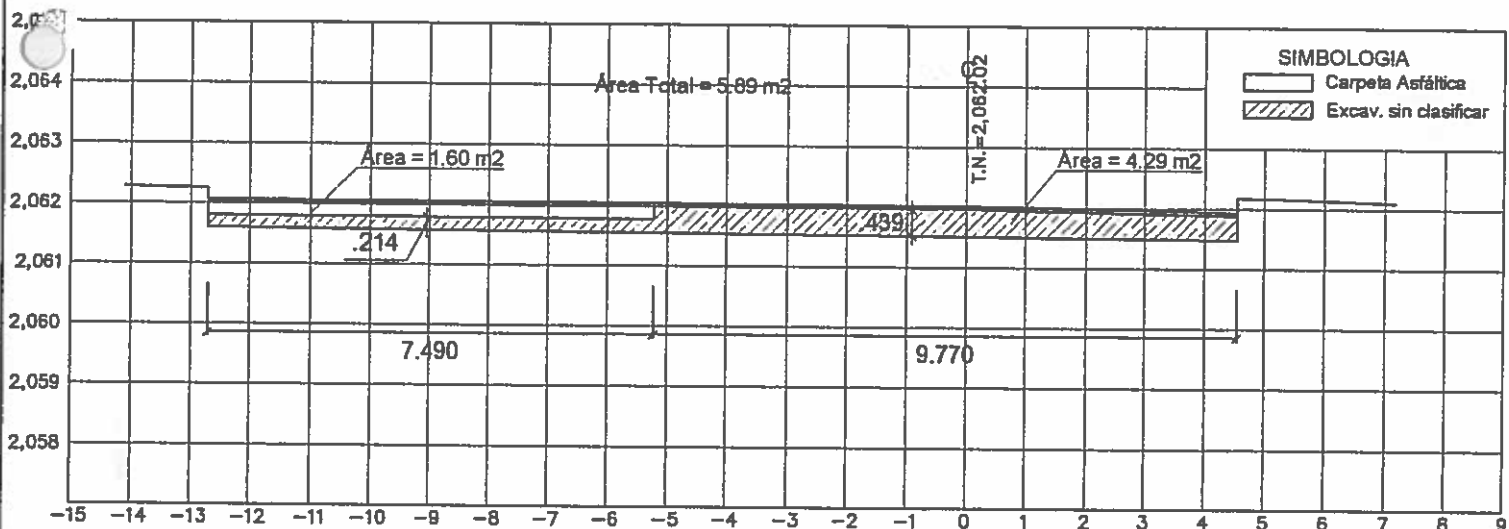


ESTACION 0+860.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

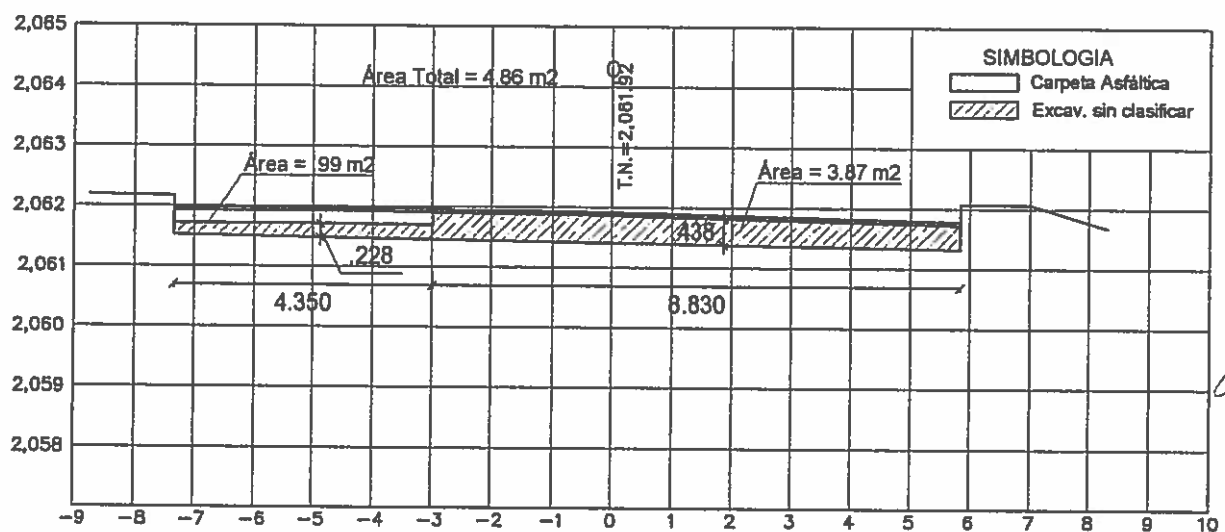
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ESTACION 1+114.70
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

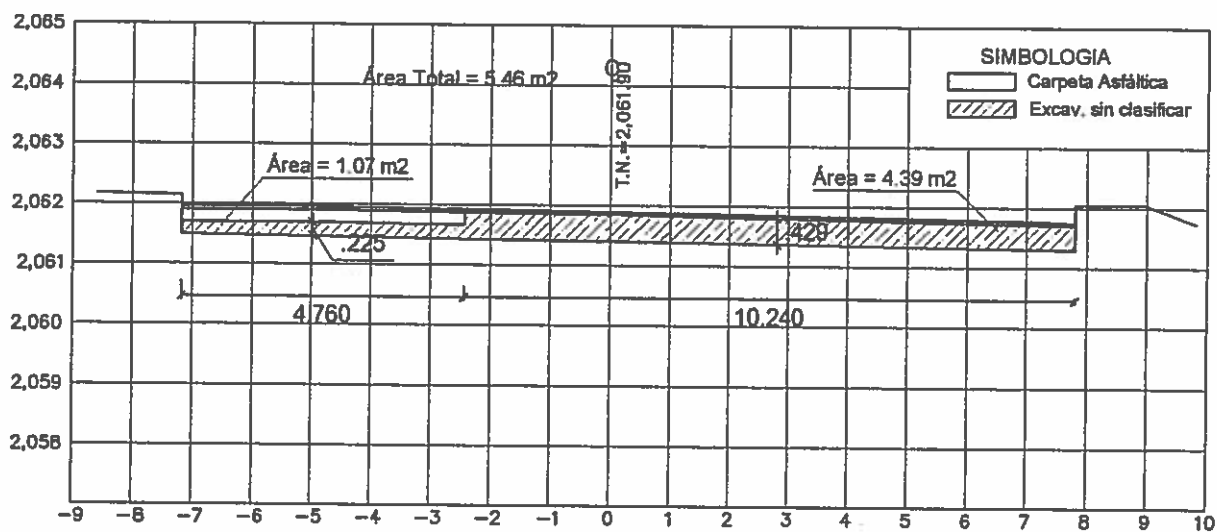


ESTACION 1+120.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

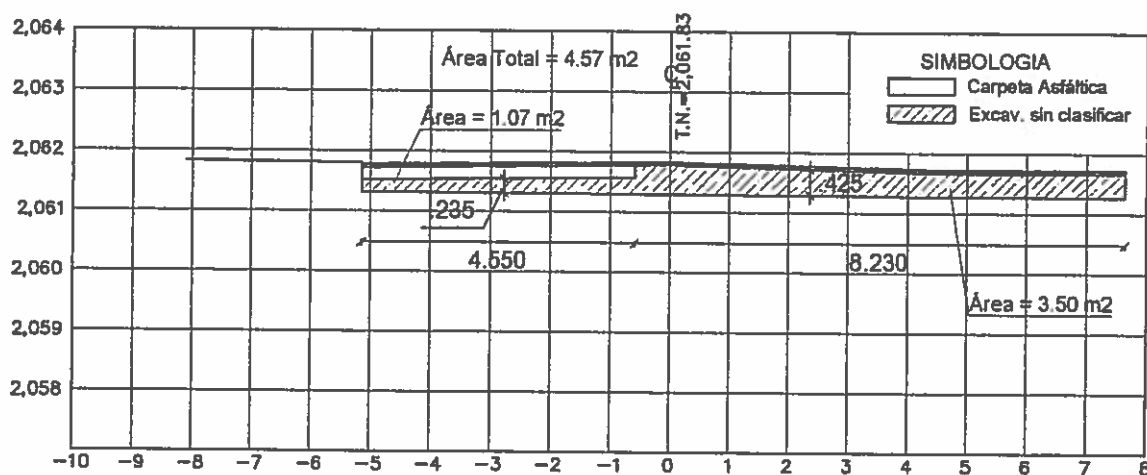


ESTACION 1+130.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

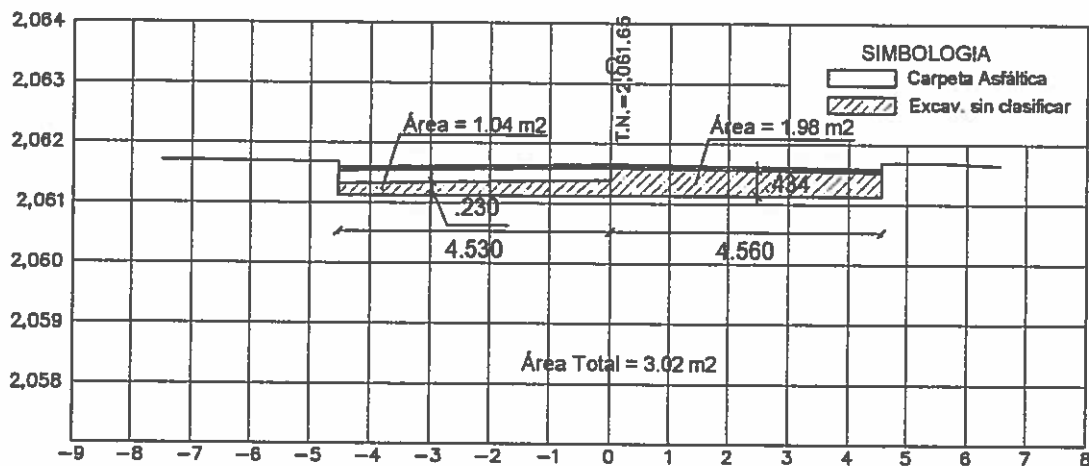
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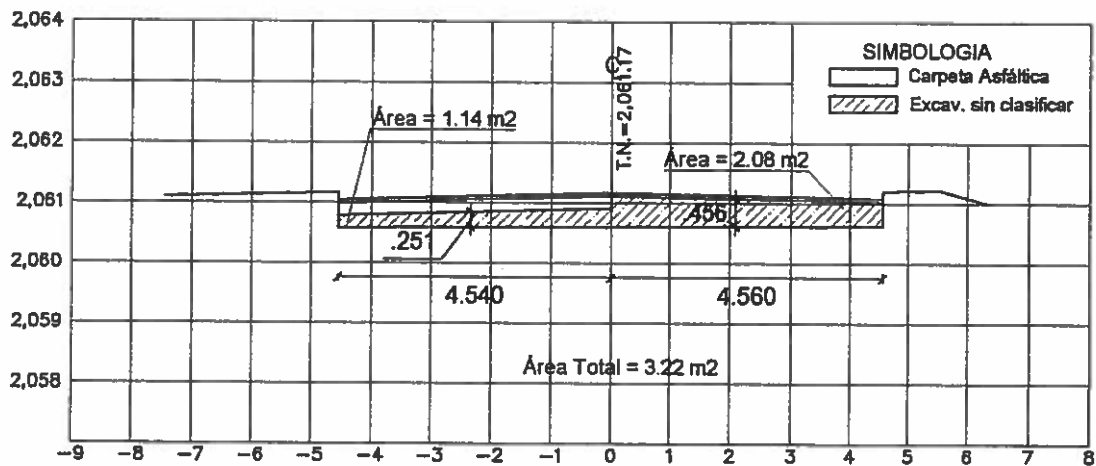
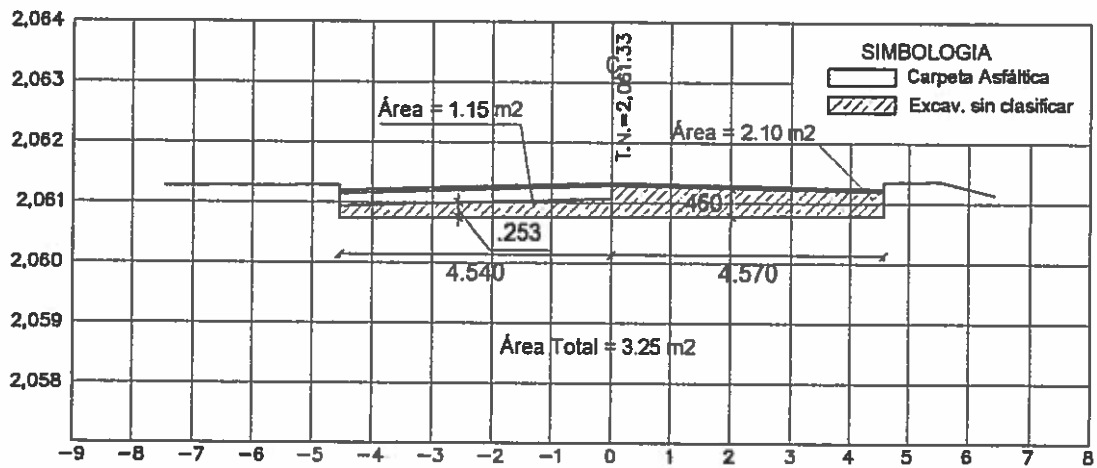
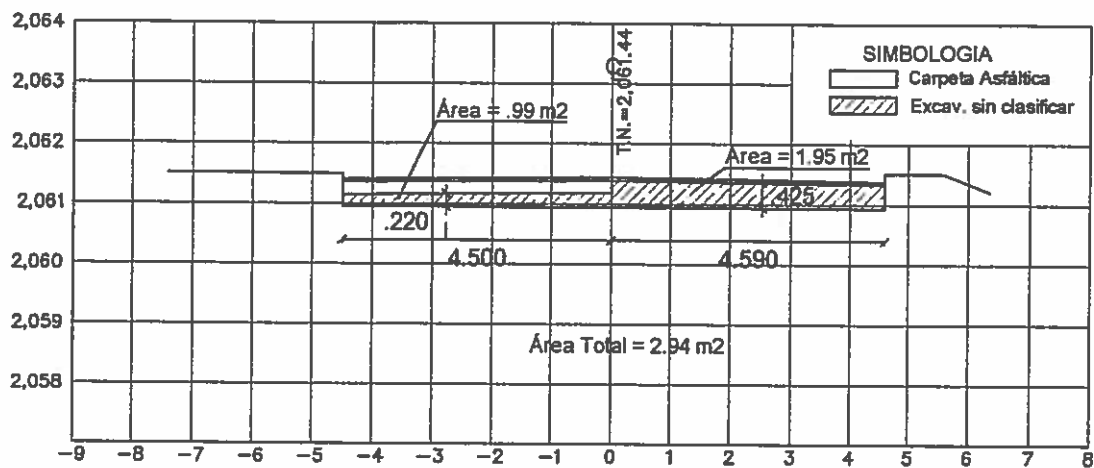
ESTACION 1+132.40
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

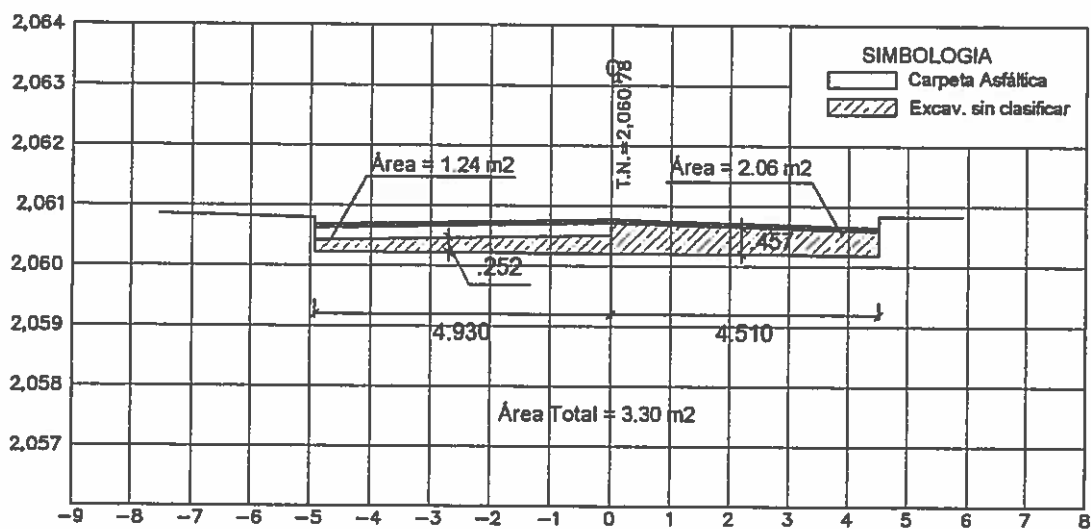
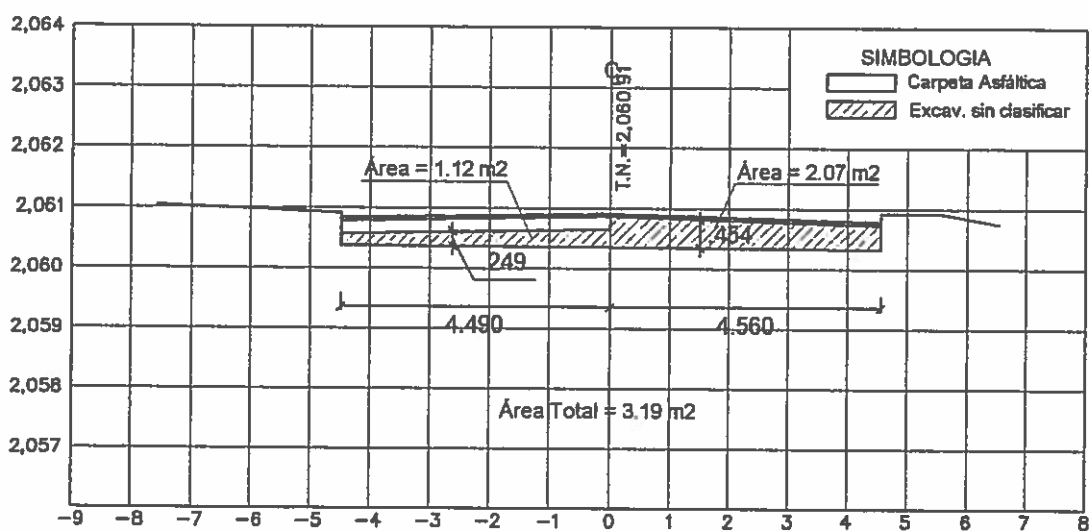
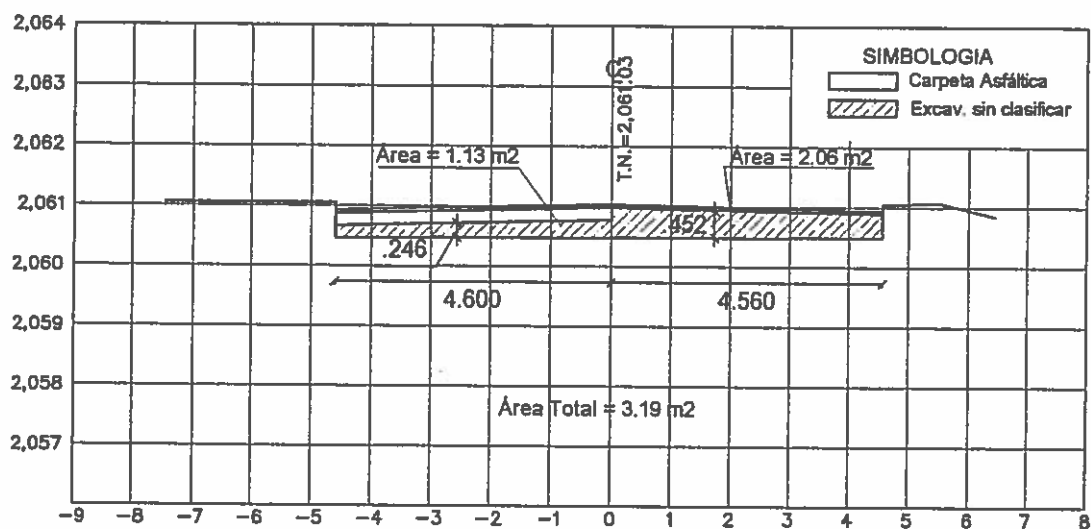


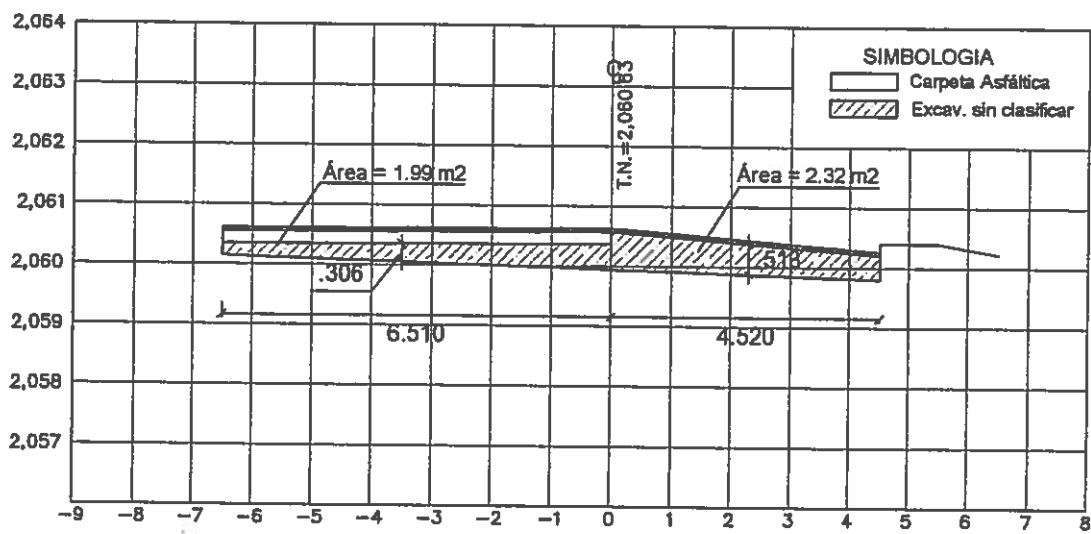
ESTACION 1+140.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



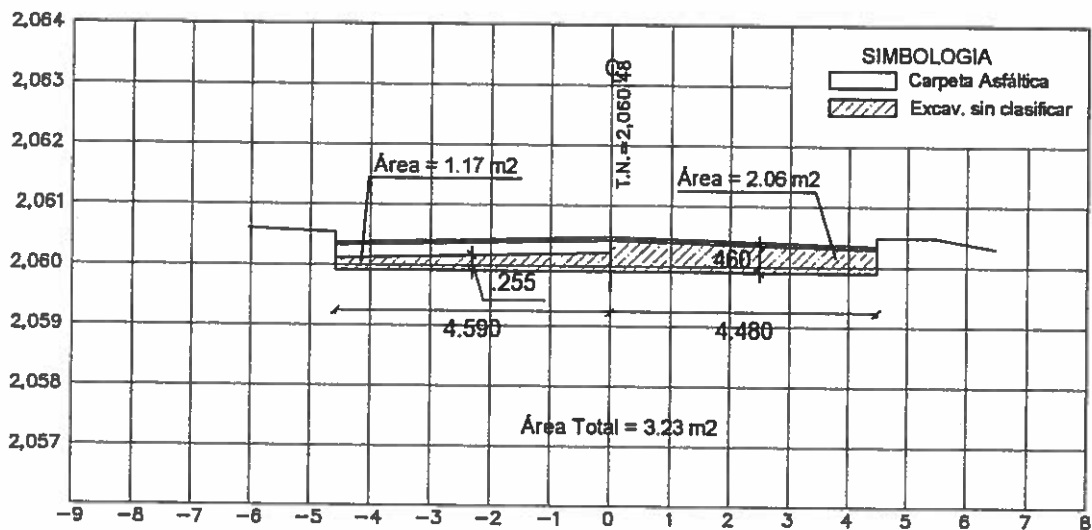
ESTACION 1+150.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100







ESTACION 1+220.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

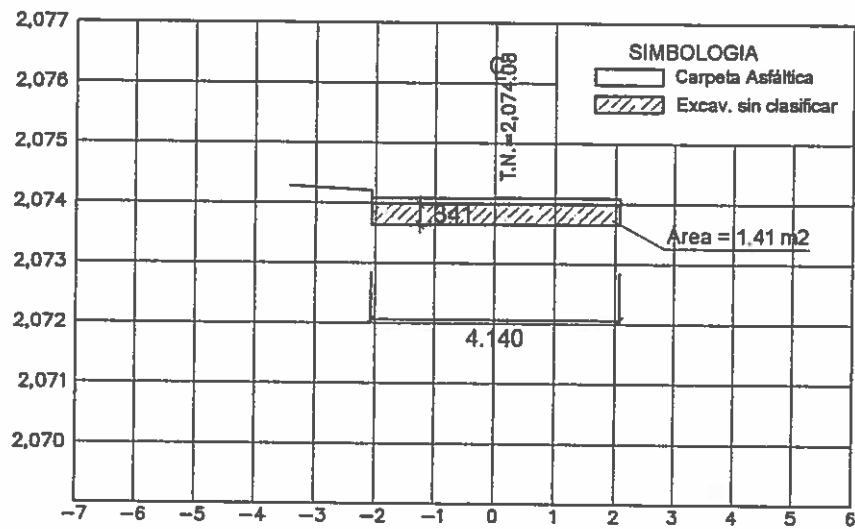


ESTACION 1+230.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

4

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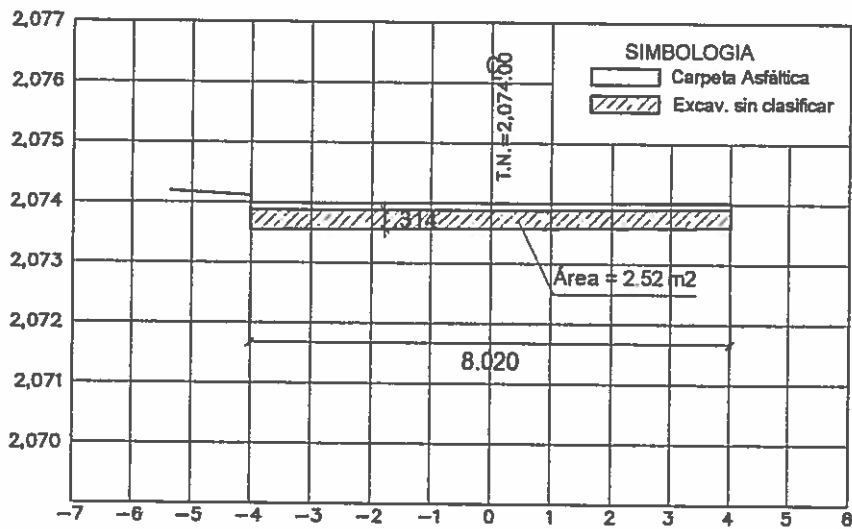
C/ SIN NOMBRE DESDE AV. EMILIANO ORTEGA HASTA LOURDES



ESTACION 0+010.00

ESCALA HORIZONTAL 1 : 100

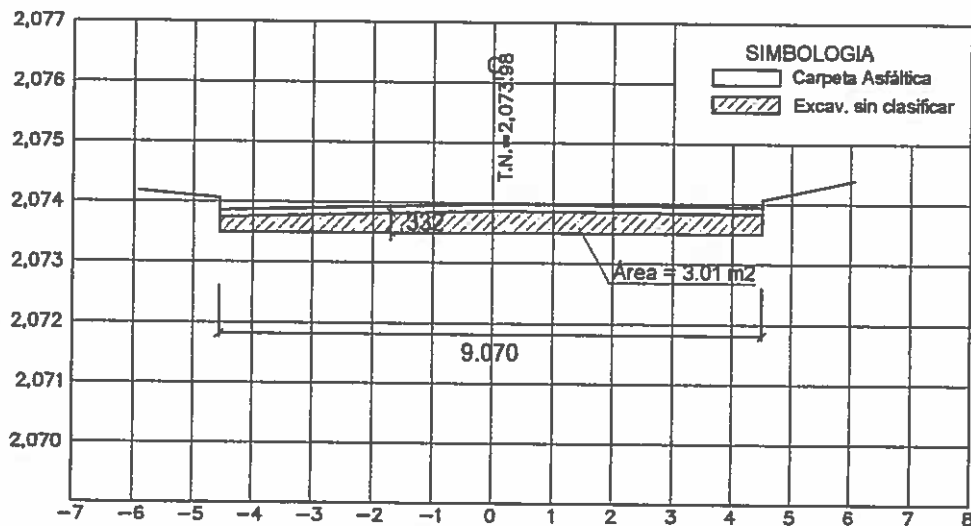
ESCALA VERTICAL 1 : 100



ESTACION 0+020.00

ESCALA HORIZONTAL 1 : 100

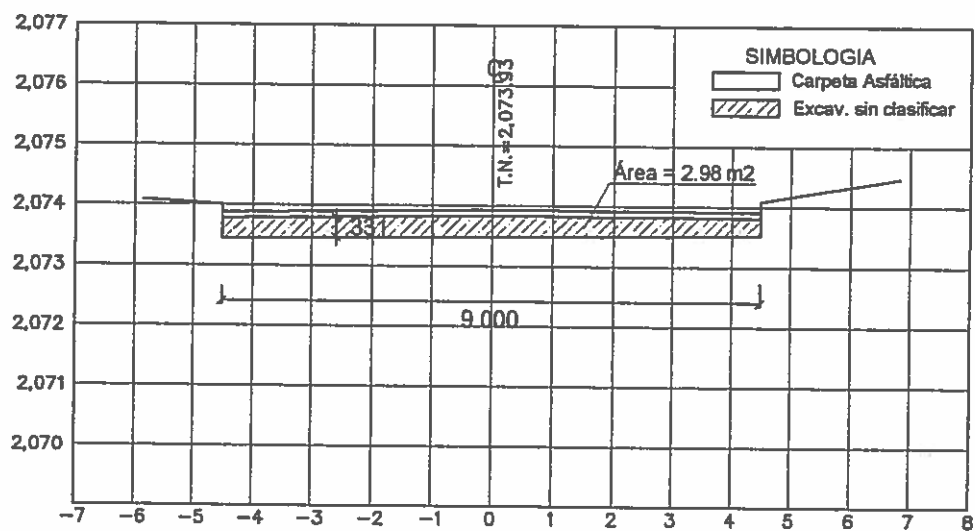
ESCALA VERTICAL 1 : 100



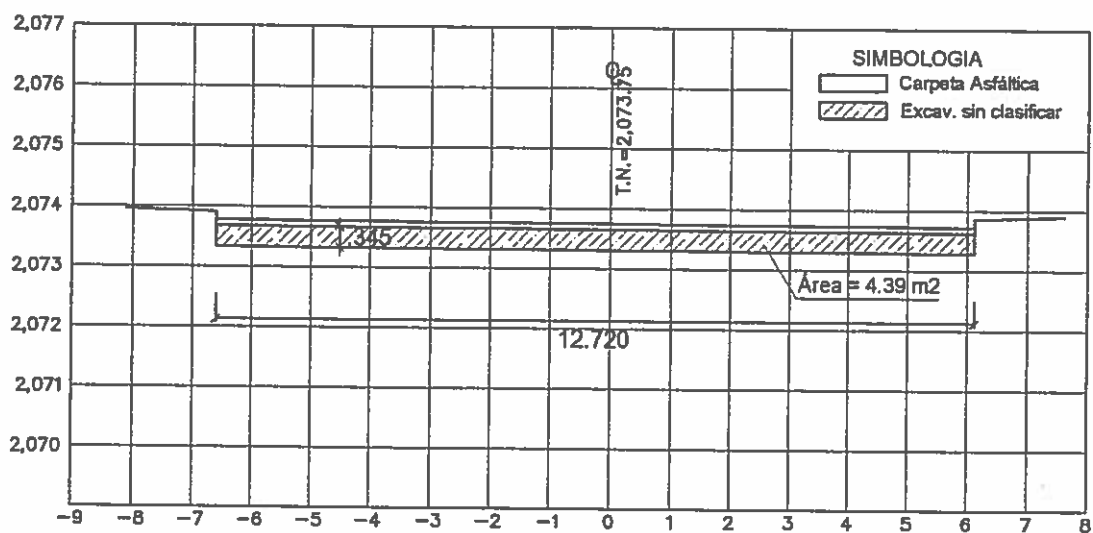
ESTACION 0+030.00

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100



ESTACION 0+040.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

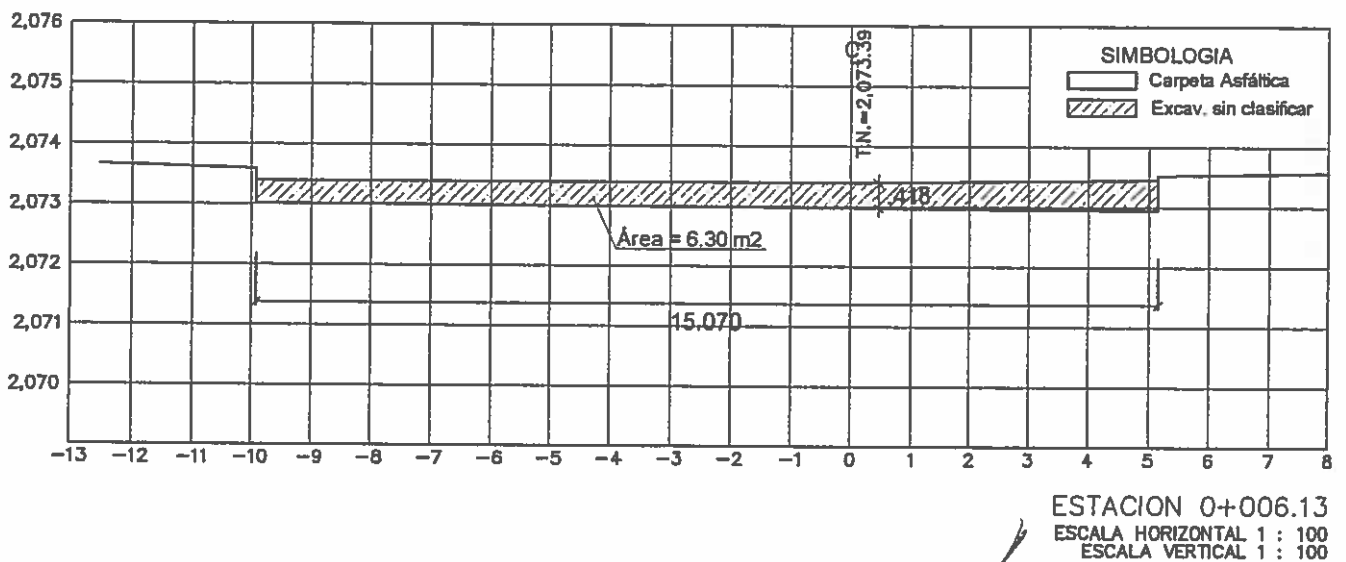
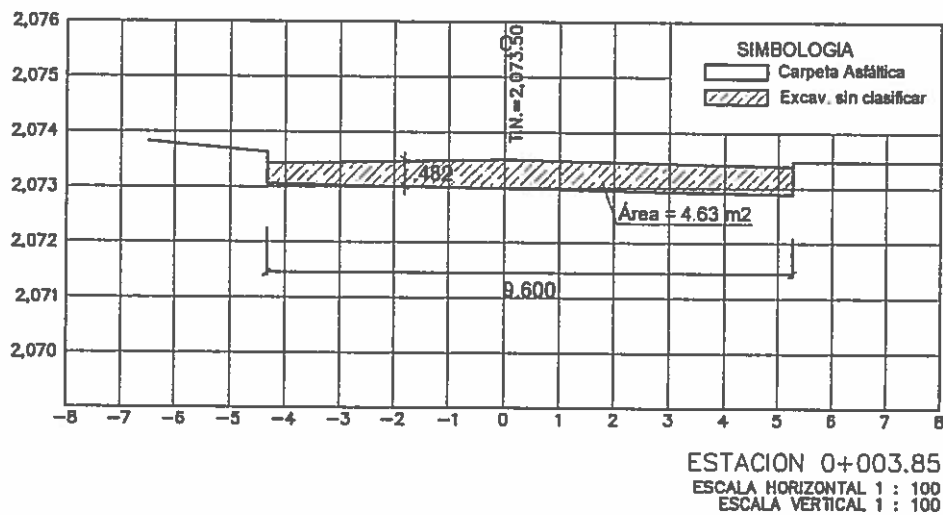
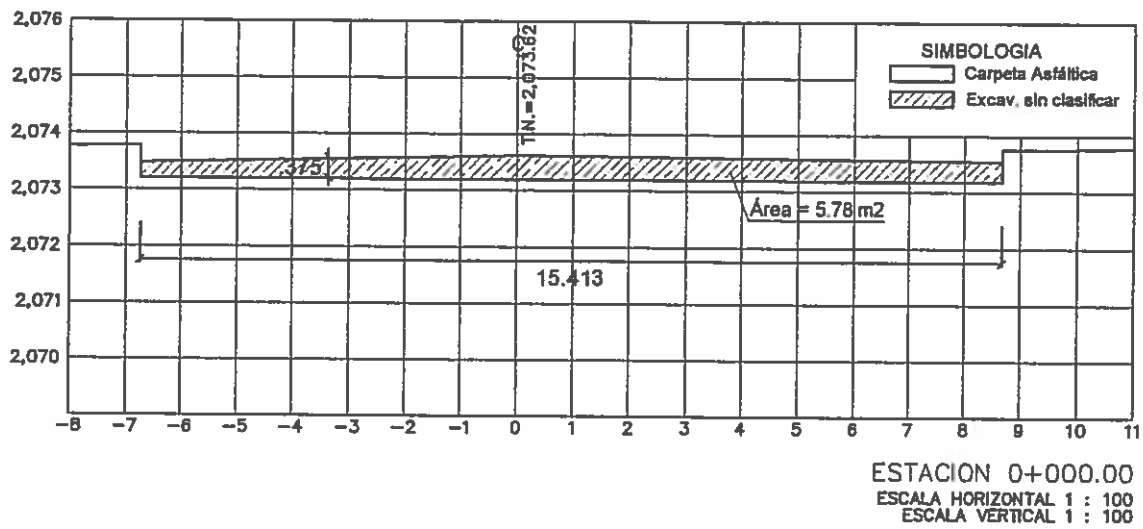


ESTACION 0+046.67
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

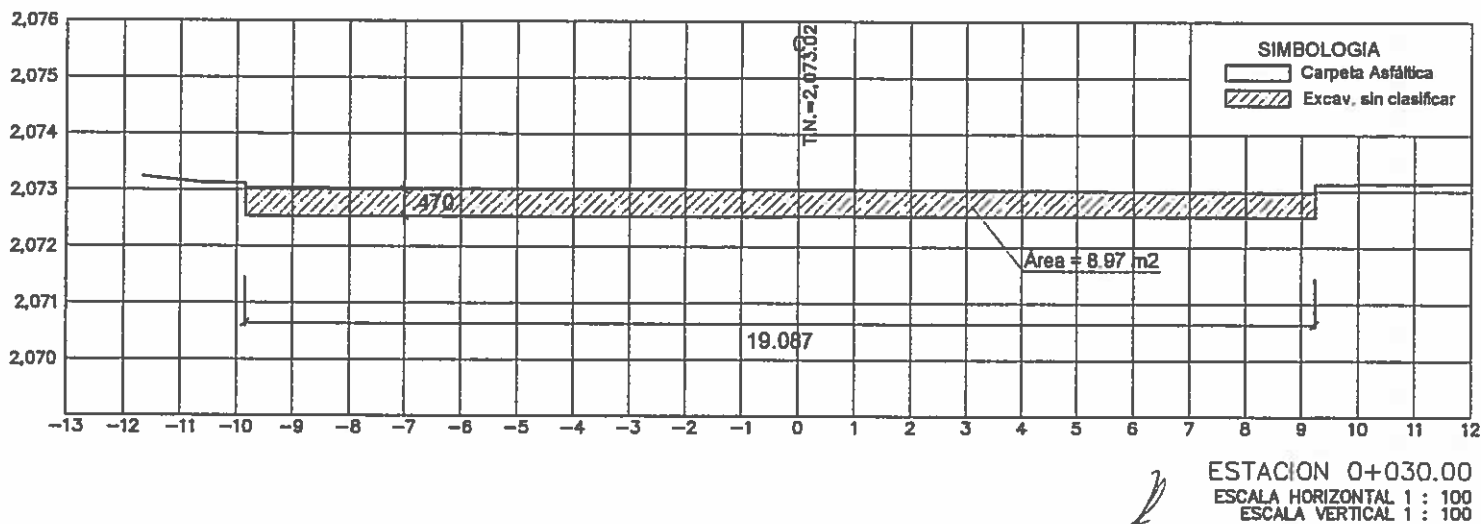
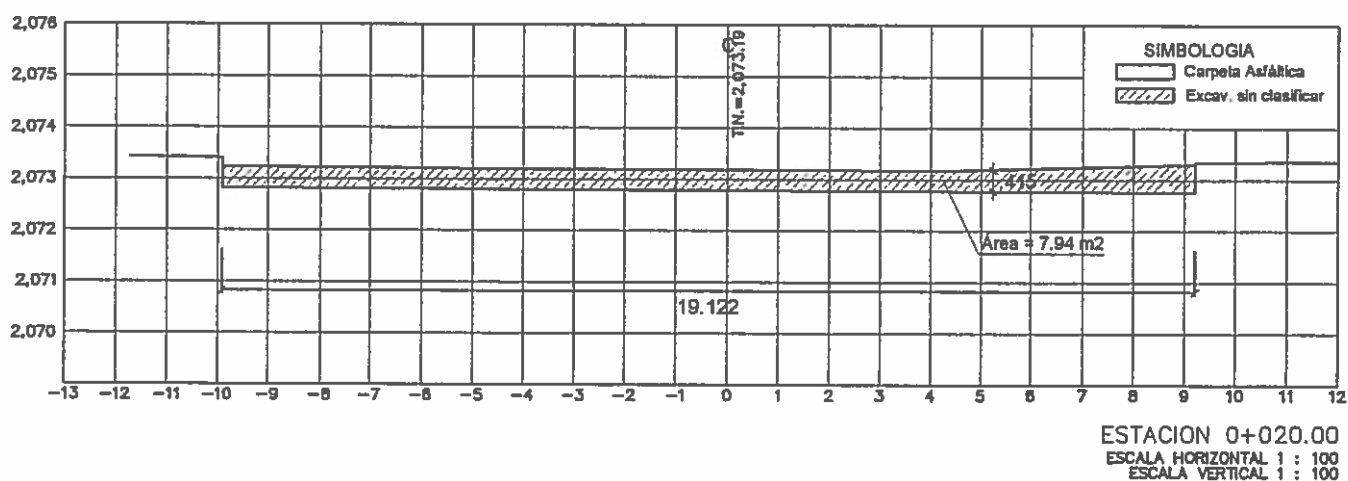
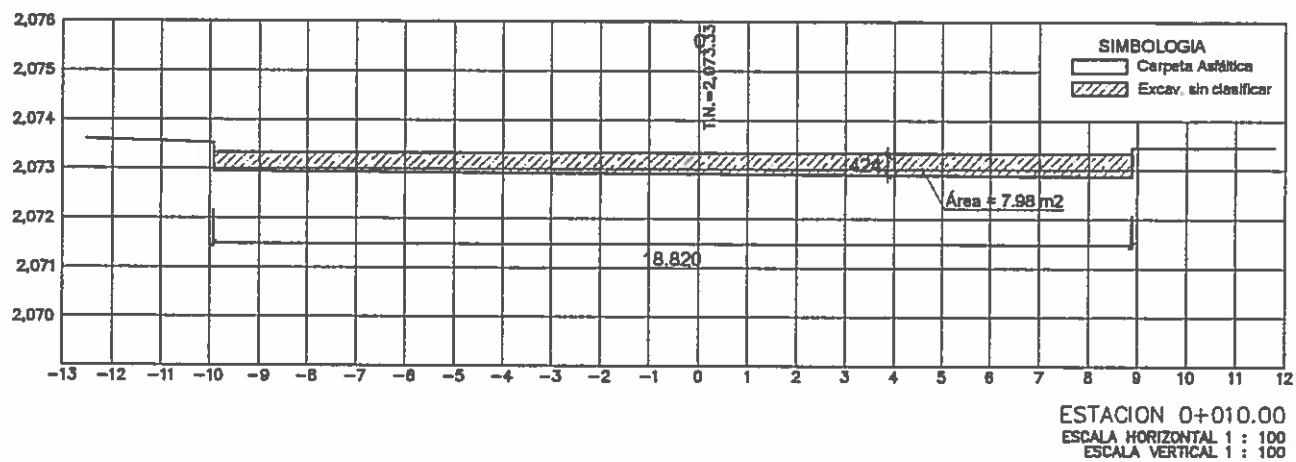
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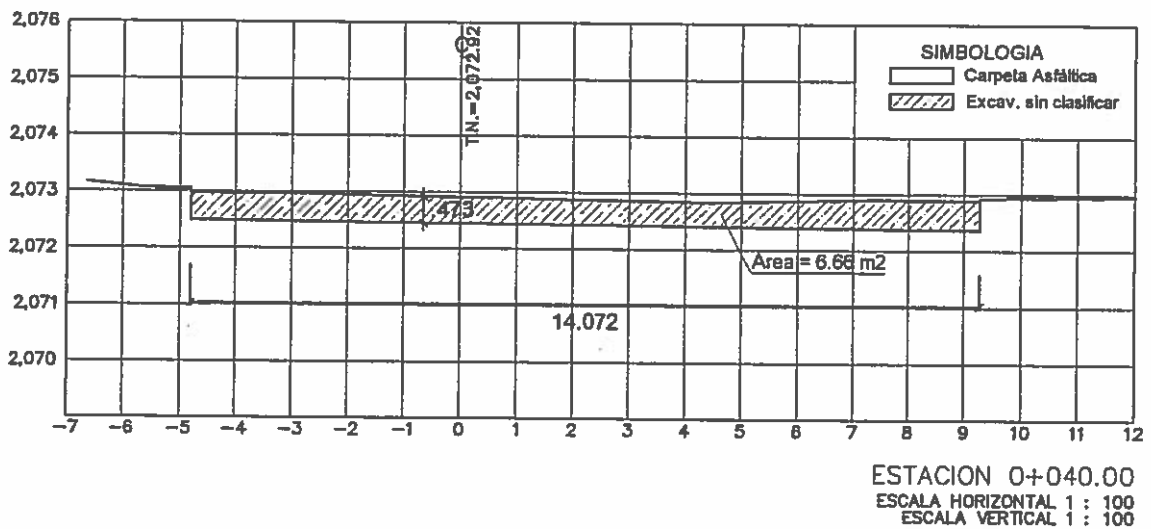
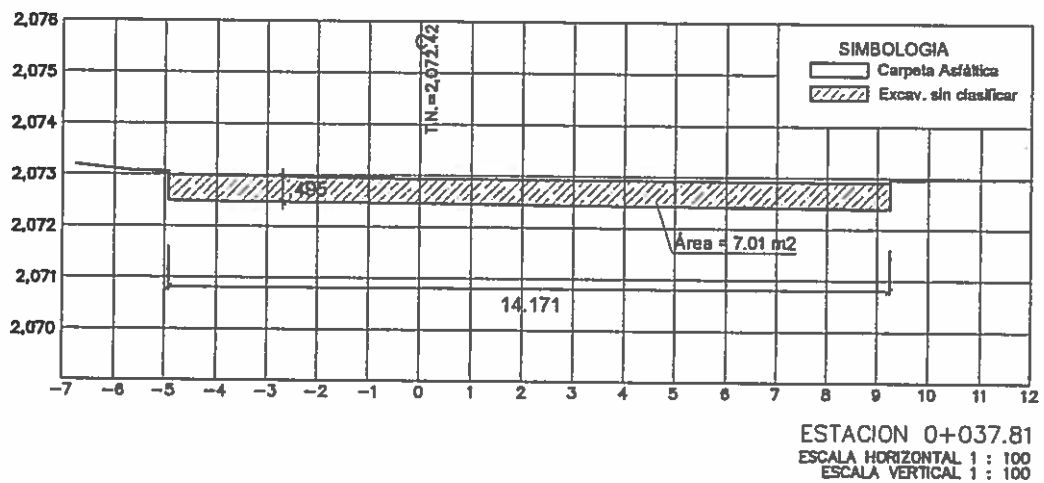
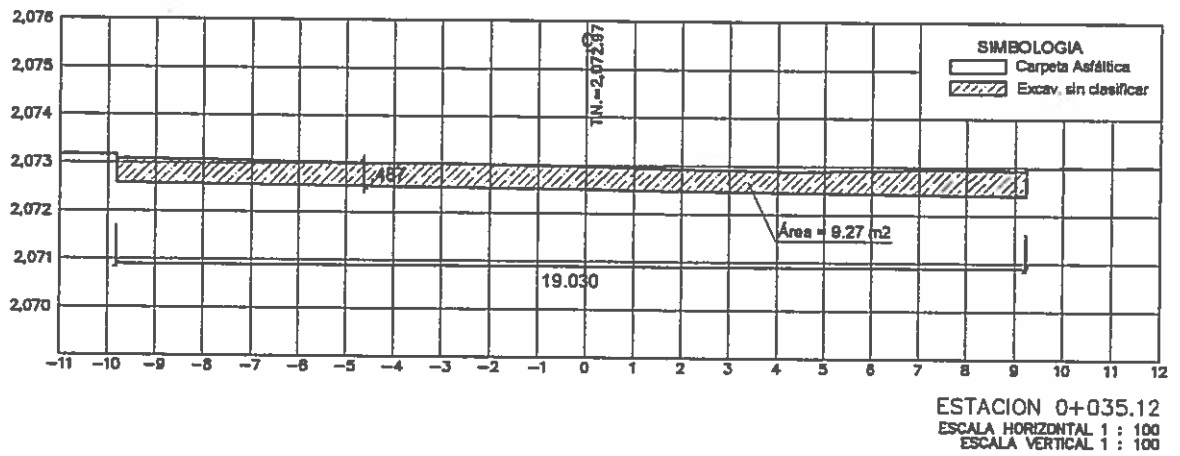
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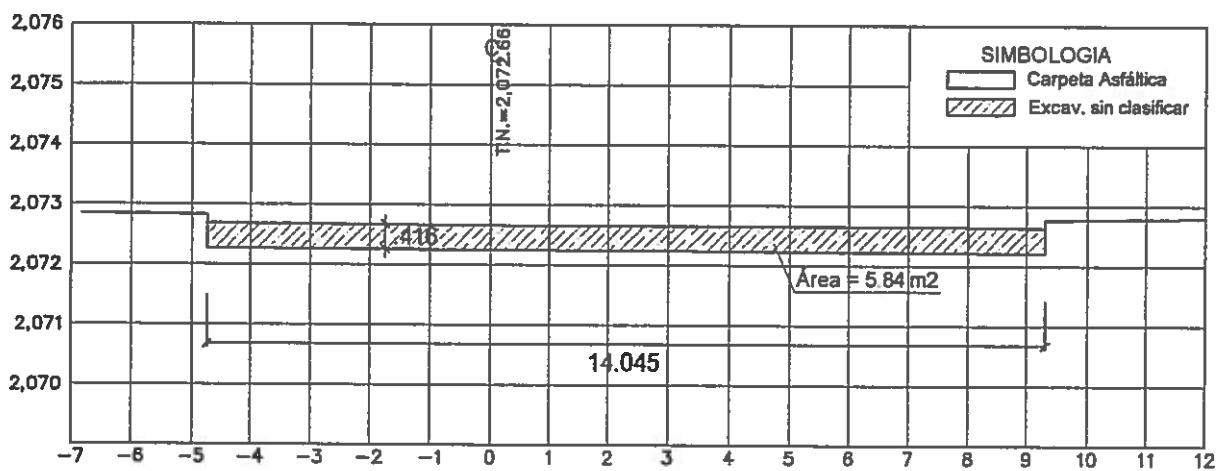
C/ ZONA DE ÁRQUEADERO ESTADIO DESDE LOURDES HASTA AV. EMILIANO ORTEGA (ABS 0+000.00 - 0+152.80)



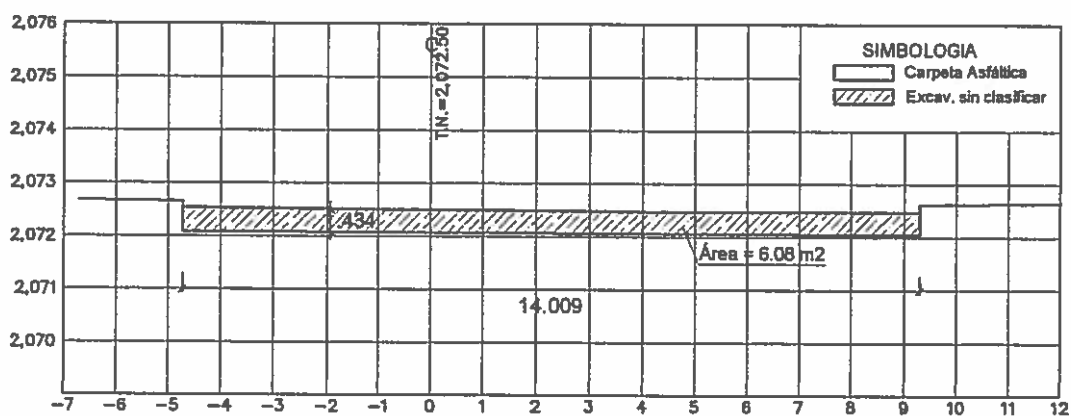
C/ ZONA DE ÁRQUEADERO ESTADIO DESDE LOURDES HASTA AV. EMILIANO ORTEGA (ABS 0+000.00 - 0+152.80)



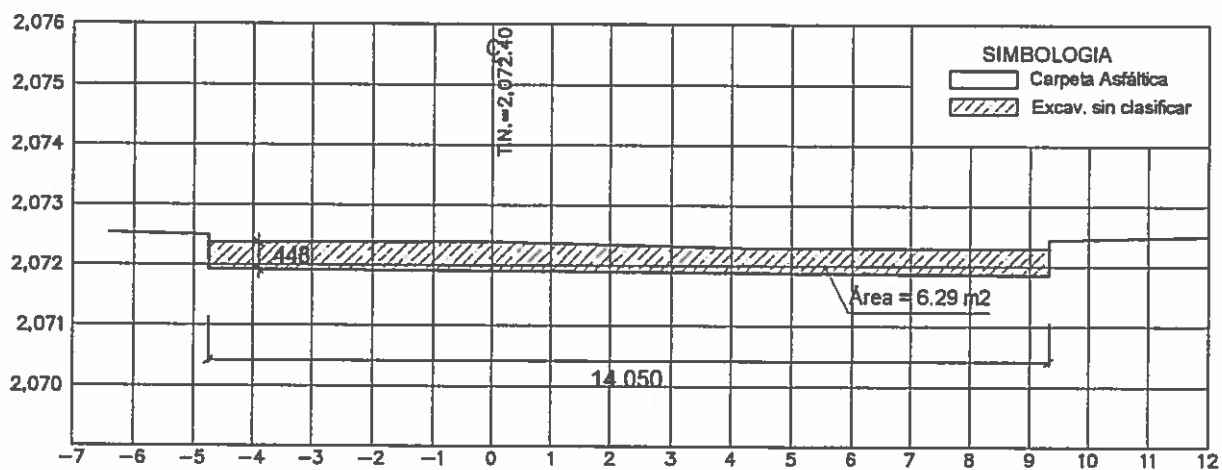




ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

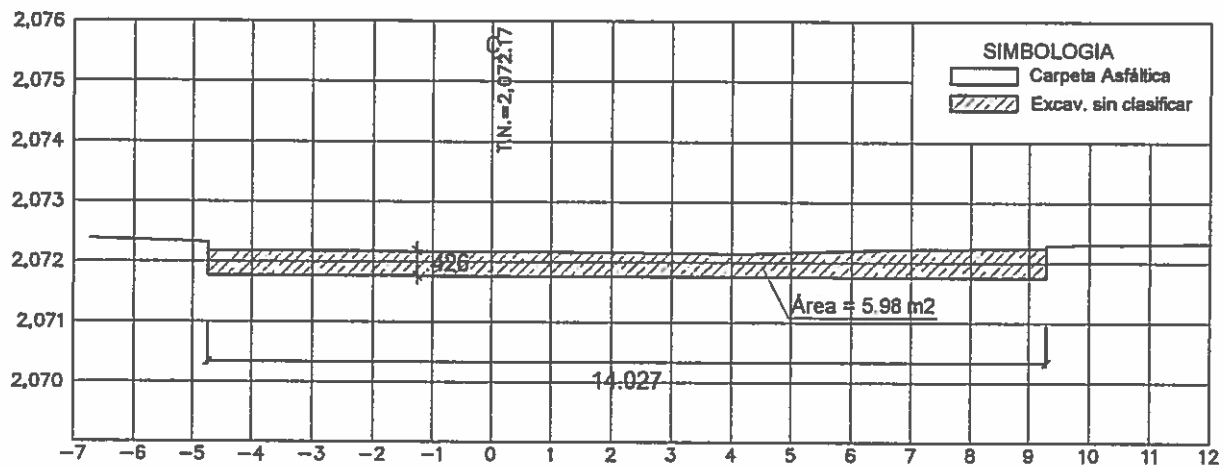


ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

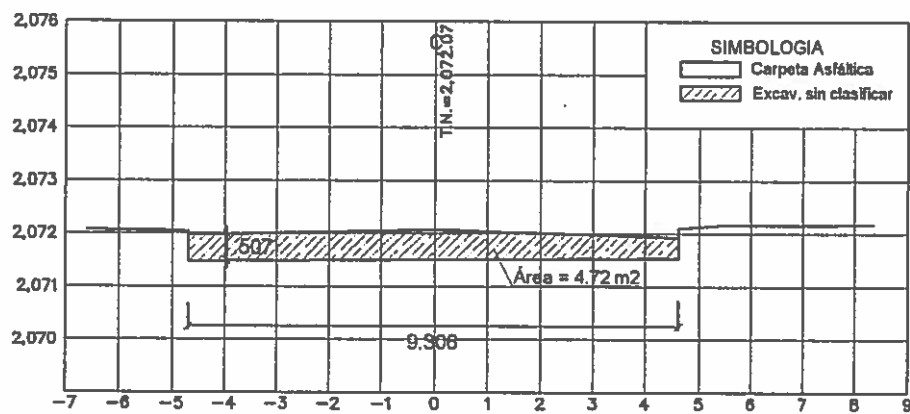


ESTACION 0+070.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

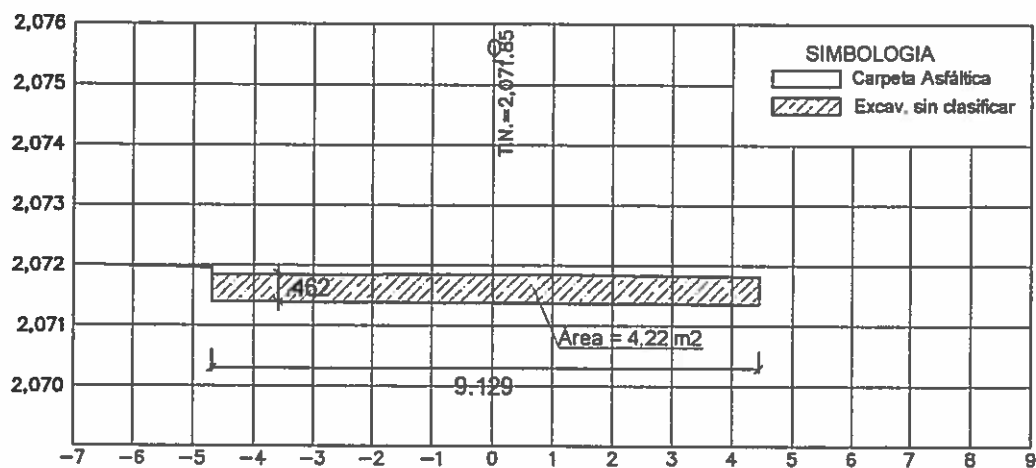
f



ESTACION 0+080.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

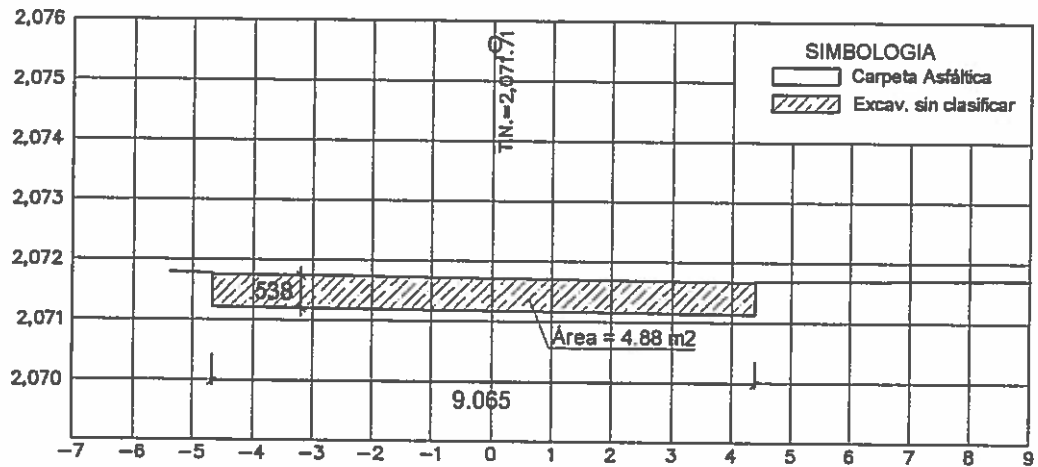


ESTACION 0+090.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

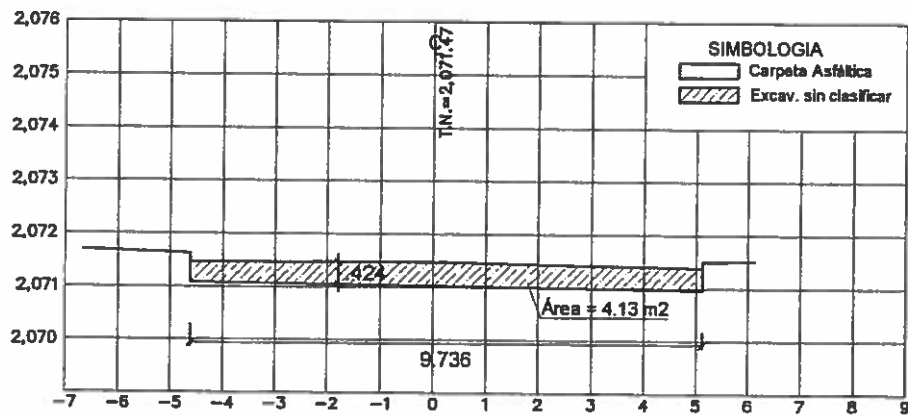


ESTACION 0+100.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

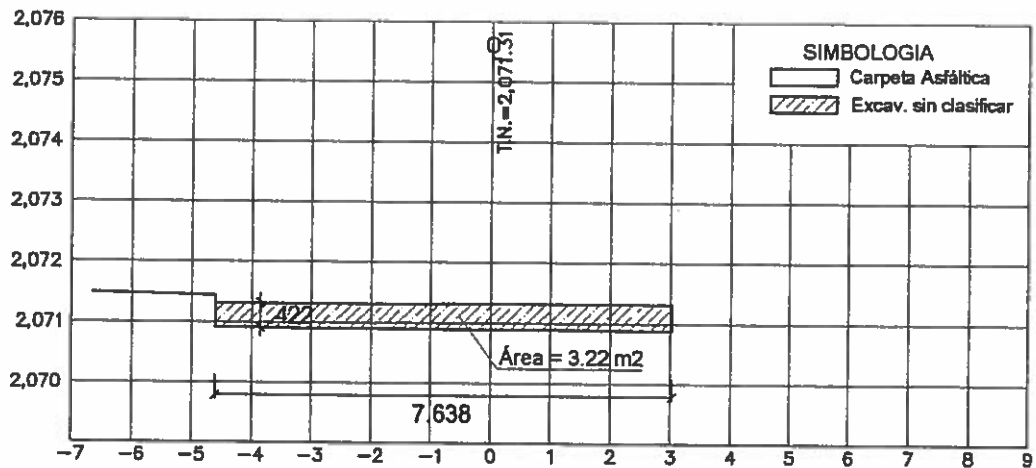
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 A



ESTACION 0+110.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

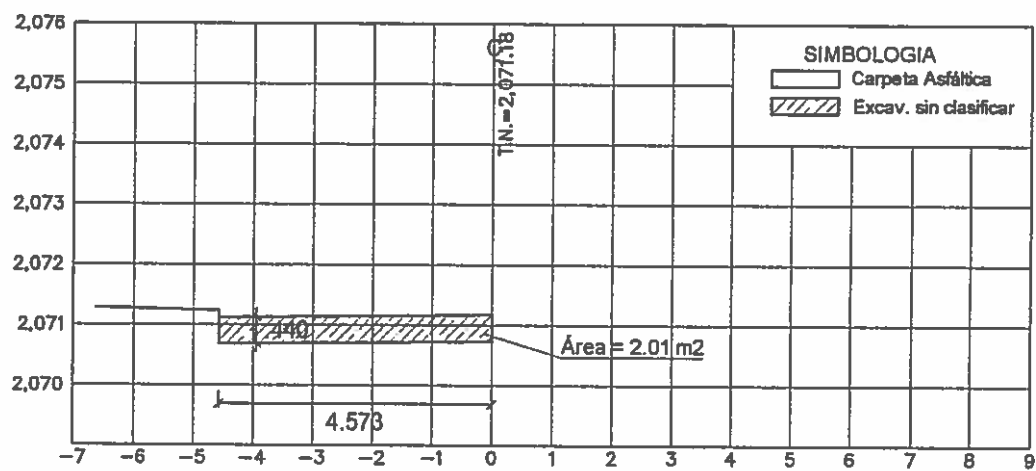


ESTACION 0+120.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+130.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

4

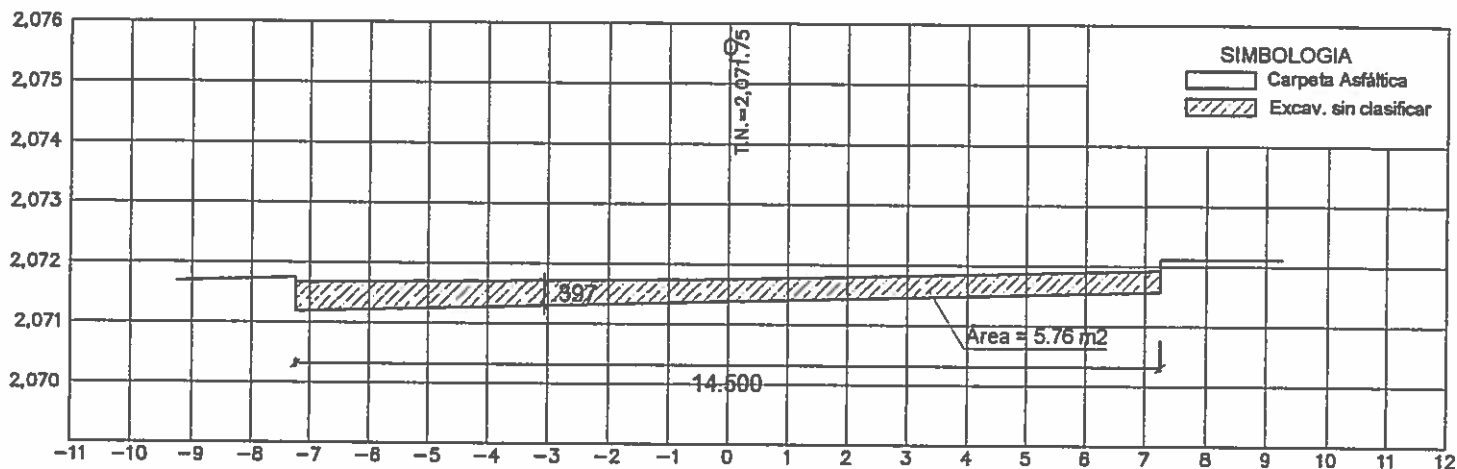


ESTACION 0+140.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

A.

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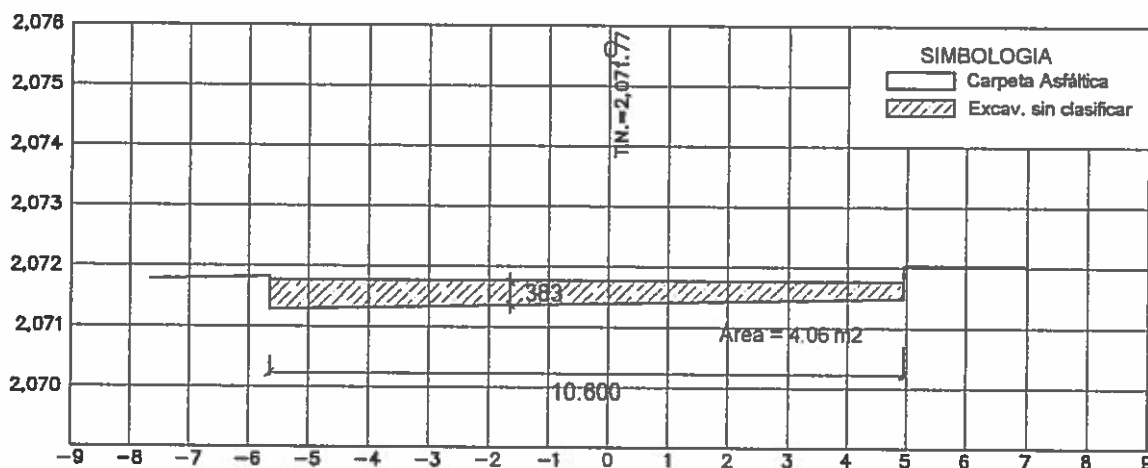
TRAMO LATERAL



ESTACION 0+000.00

ESCALA HORIZONTAL 1 : 100

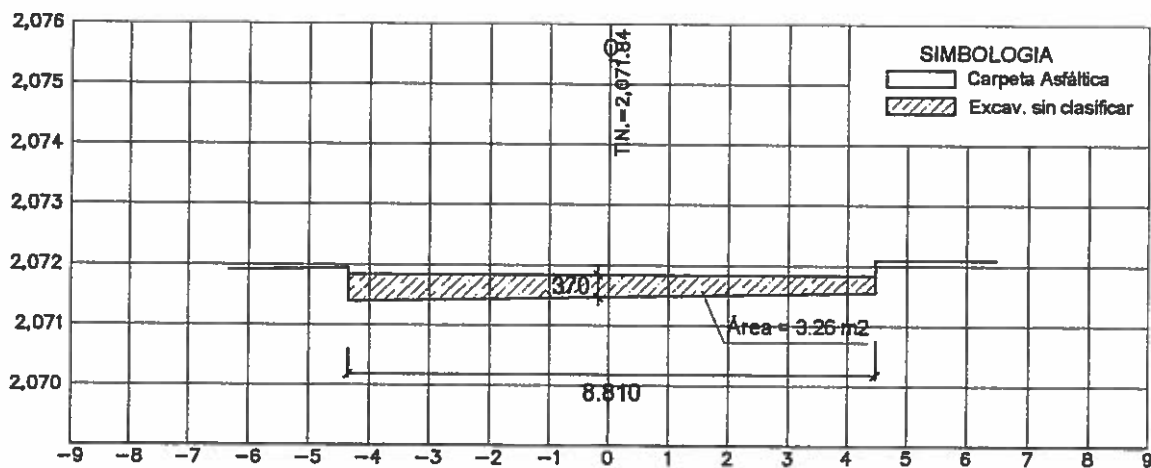
ESCALA VERTICAL 1 : 100



ESTACION 0+001.16

ESCALA HORIZONTAL 1 : 100

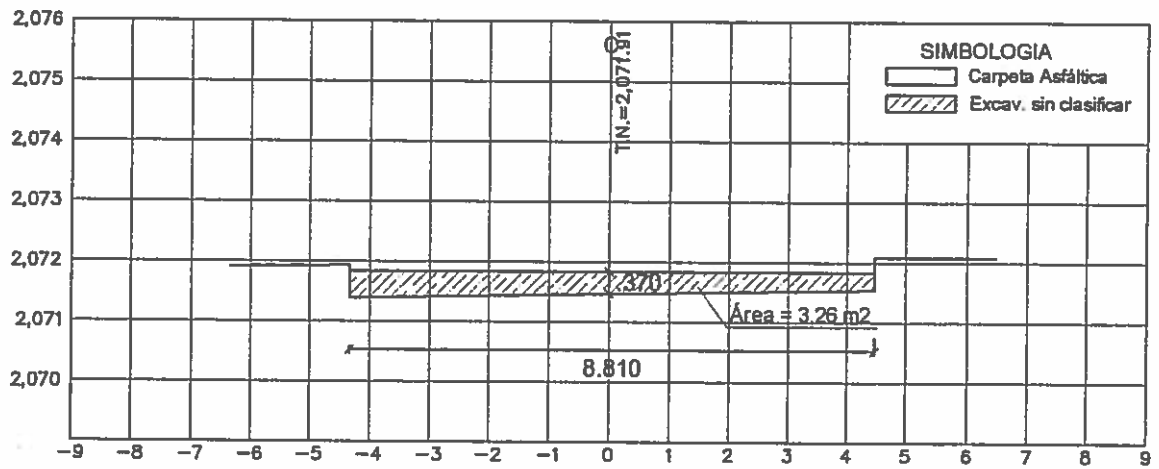
ESCALA VERTICAL 1 : 100



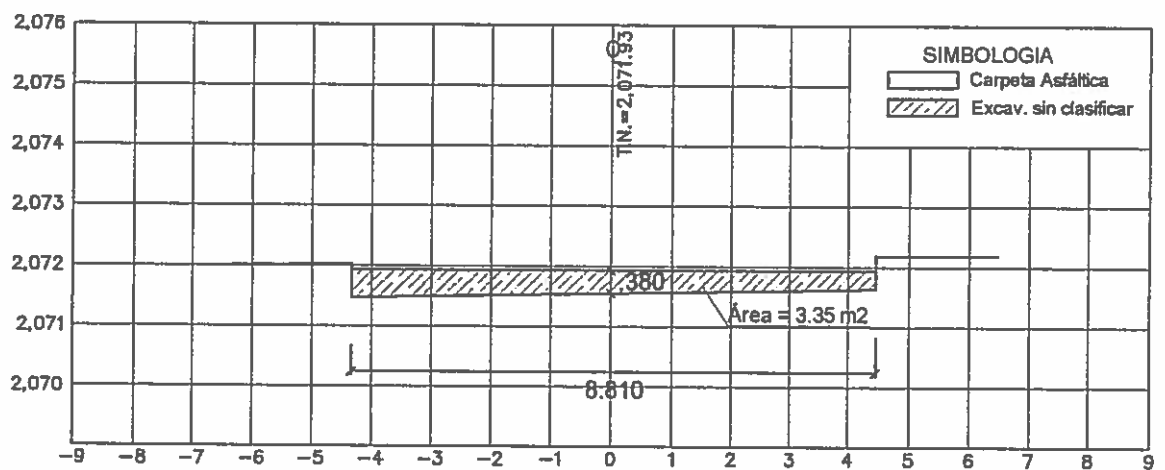
ESTACION 0+004.58

ESCALA HORIZONTAL 1 : 100

ESCALA VERTICAL 1 : 100



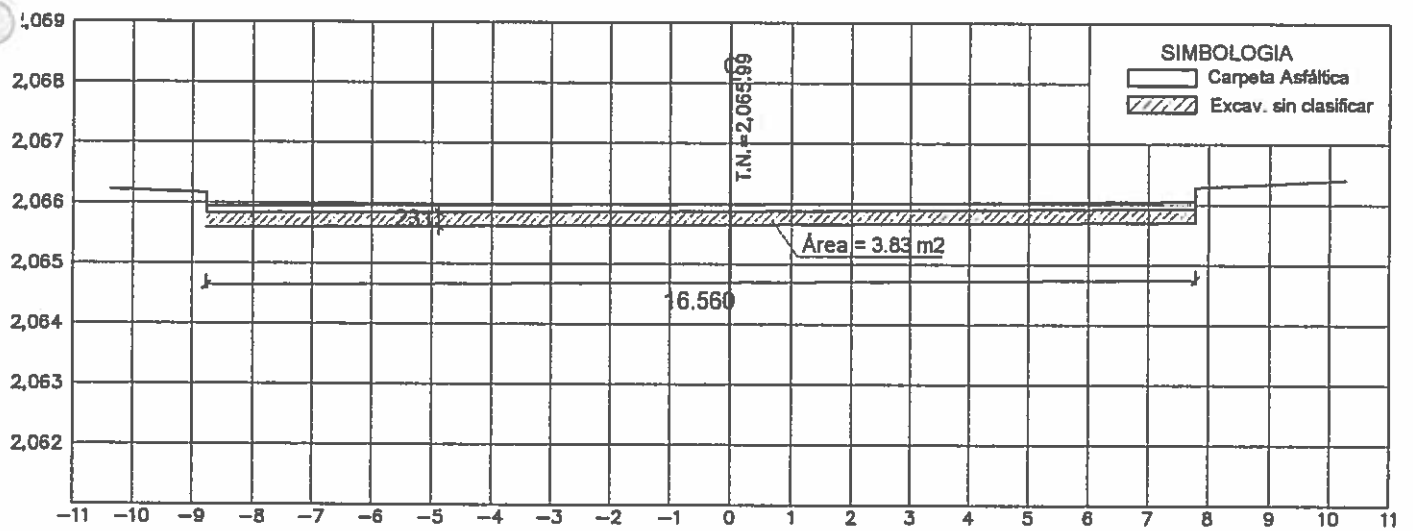
ESTACION 0+007.90
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+009.16
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

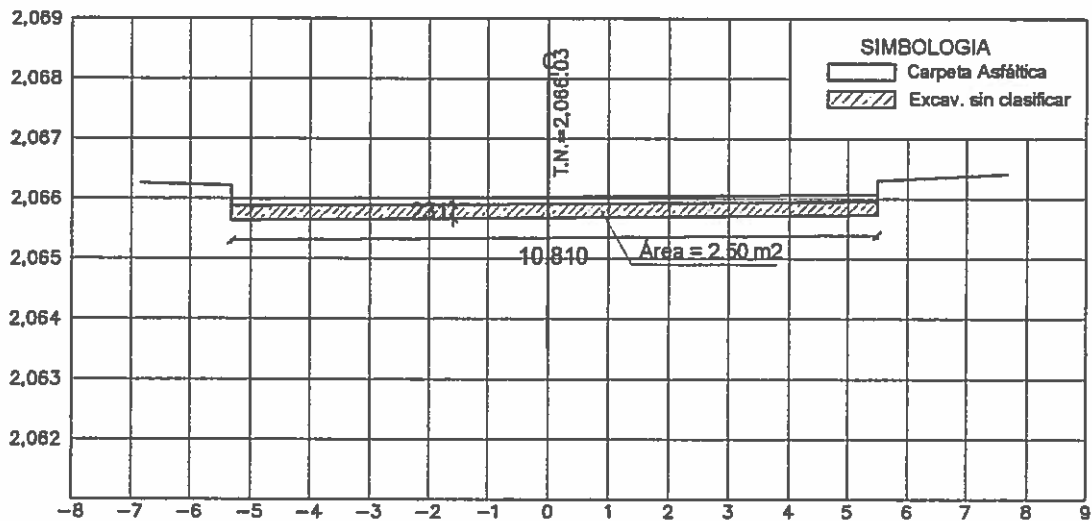
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C/ MACARA DESDE ROCAFUERTE HASTA MIGUEL RIOFRIO

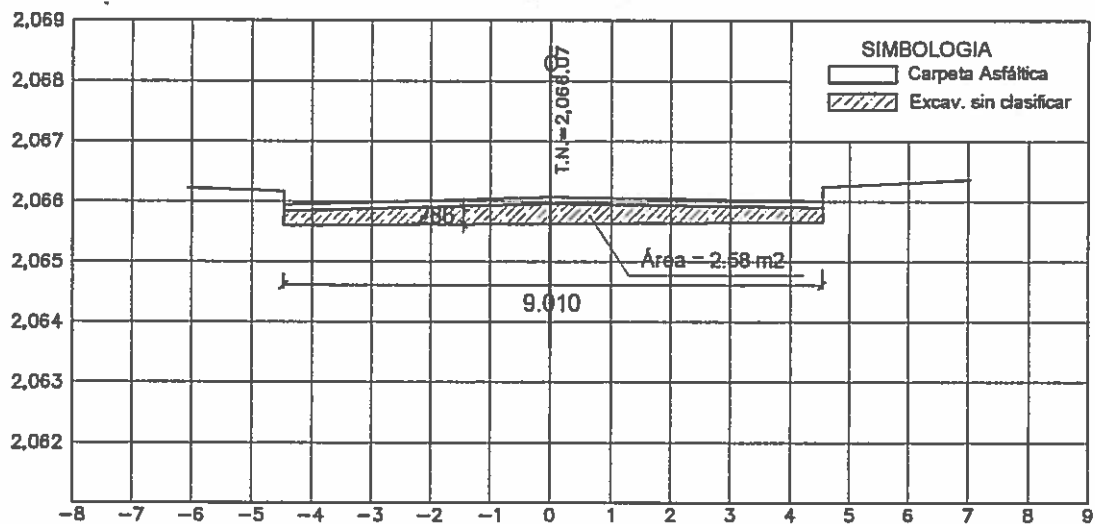


ESTACION 0+005.50
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 ESCALA VERTICAL 1 : 100

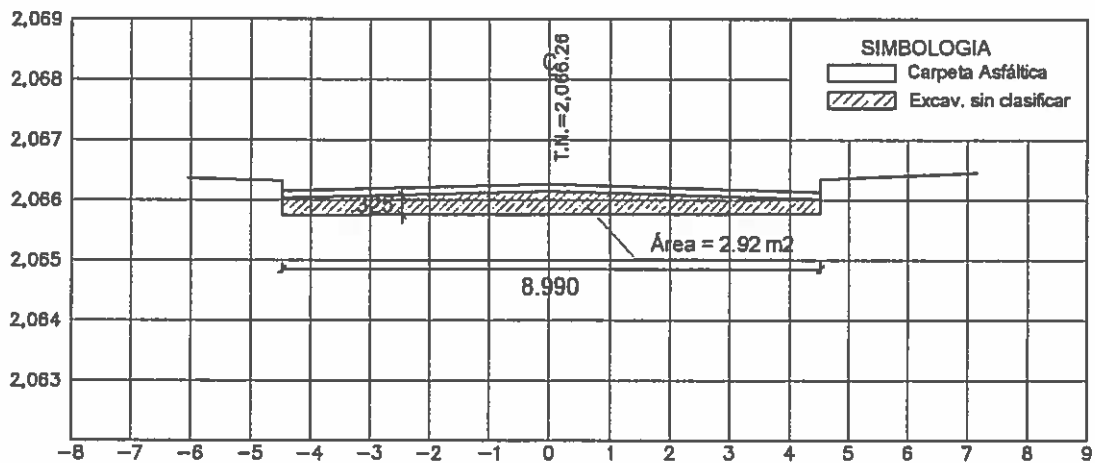
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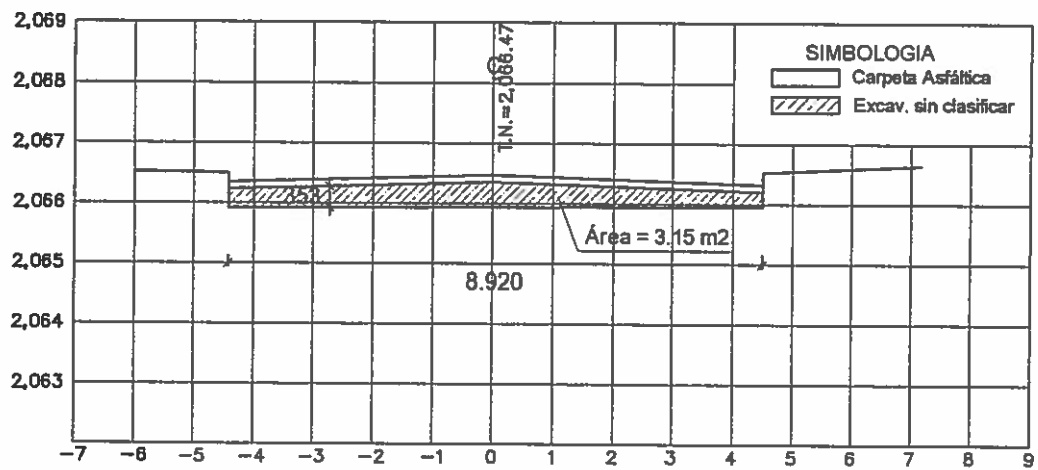
ESTACION 0+007.27
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+010.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

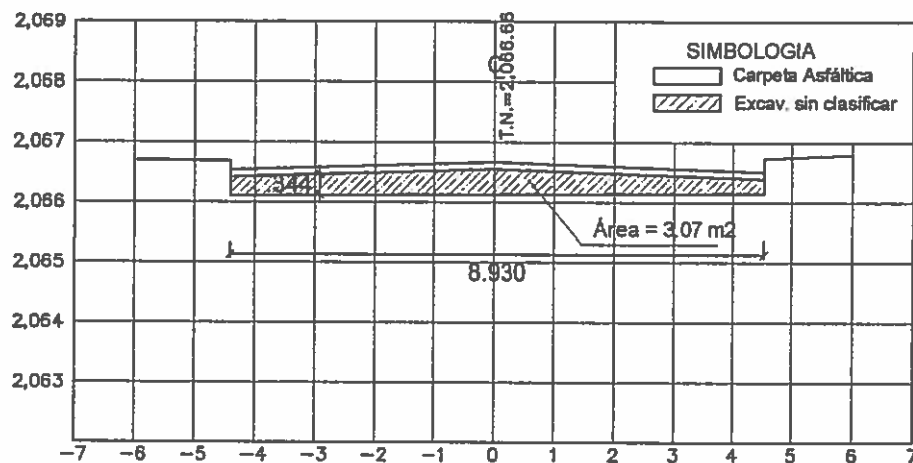


ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

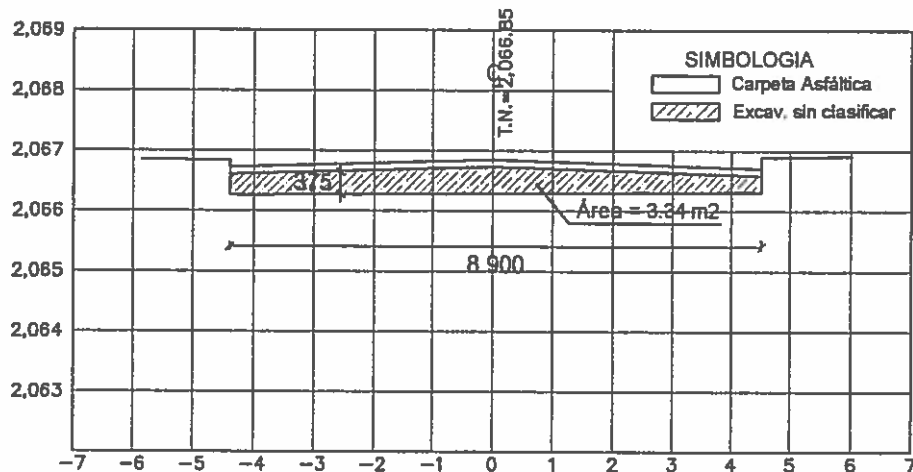


ESTACION 0+030.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

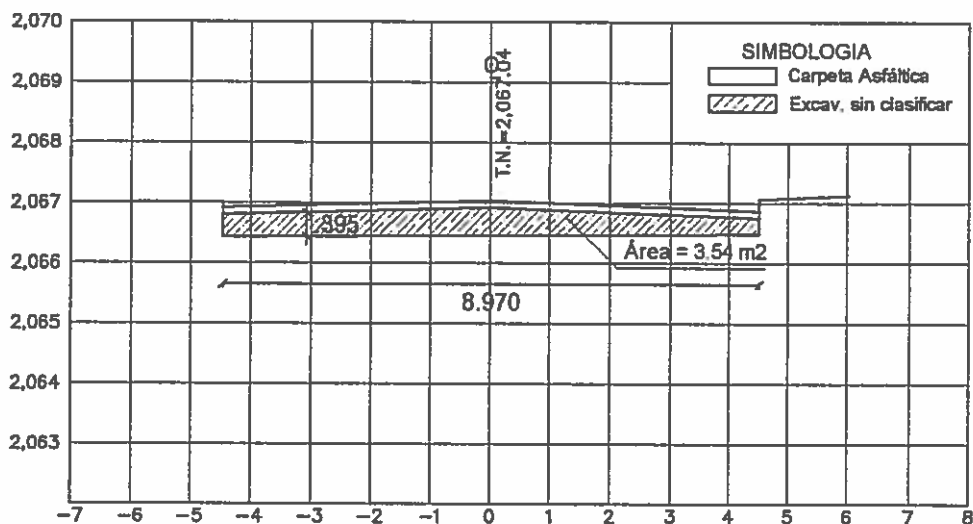
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ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

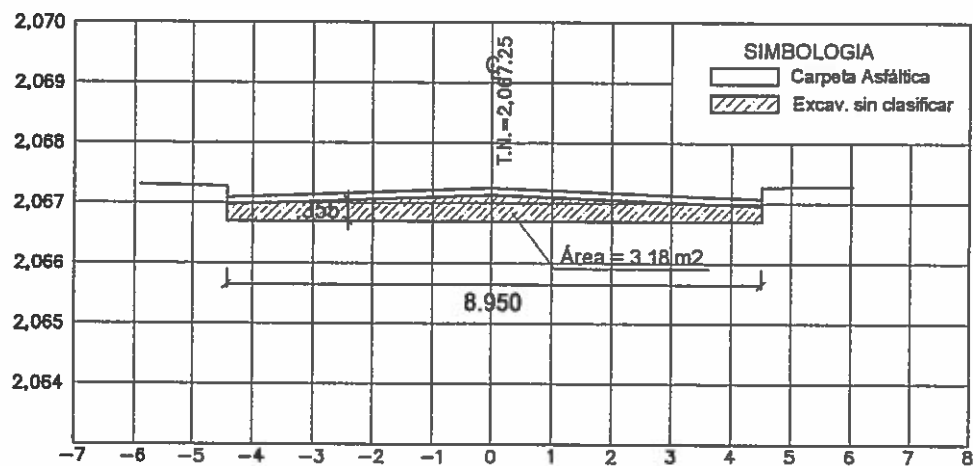


ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

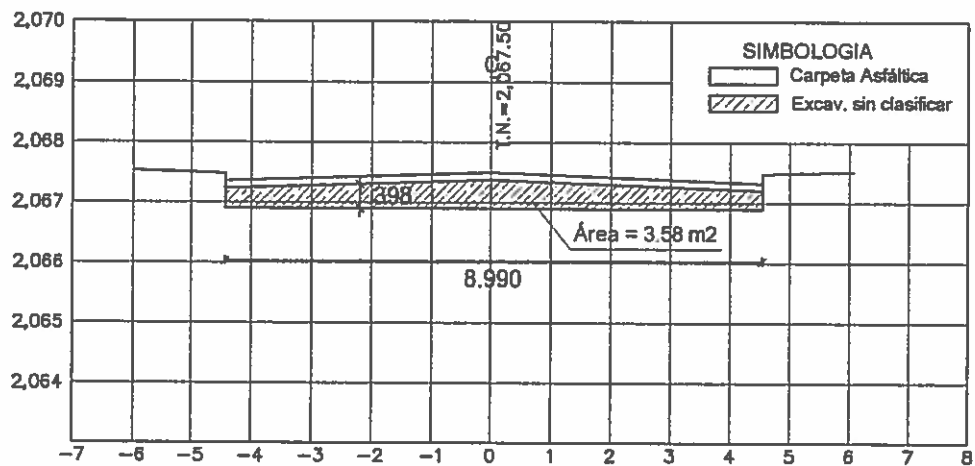


ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

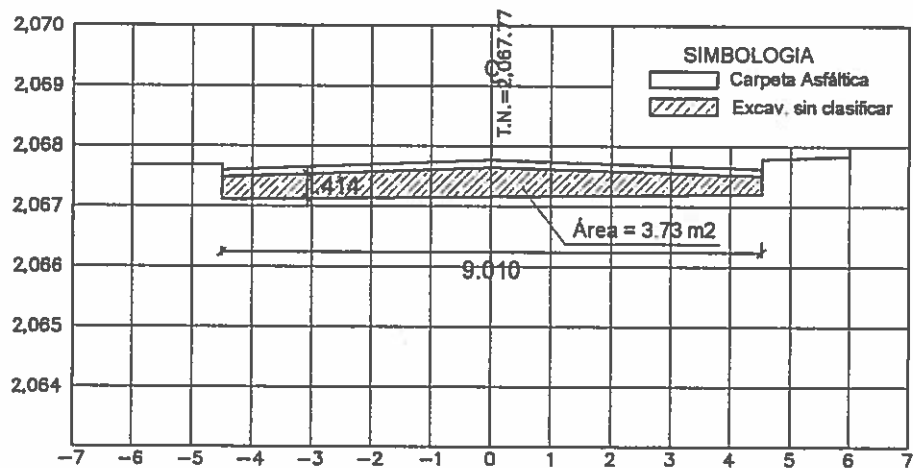
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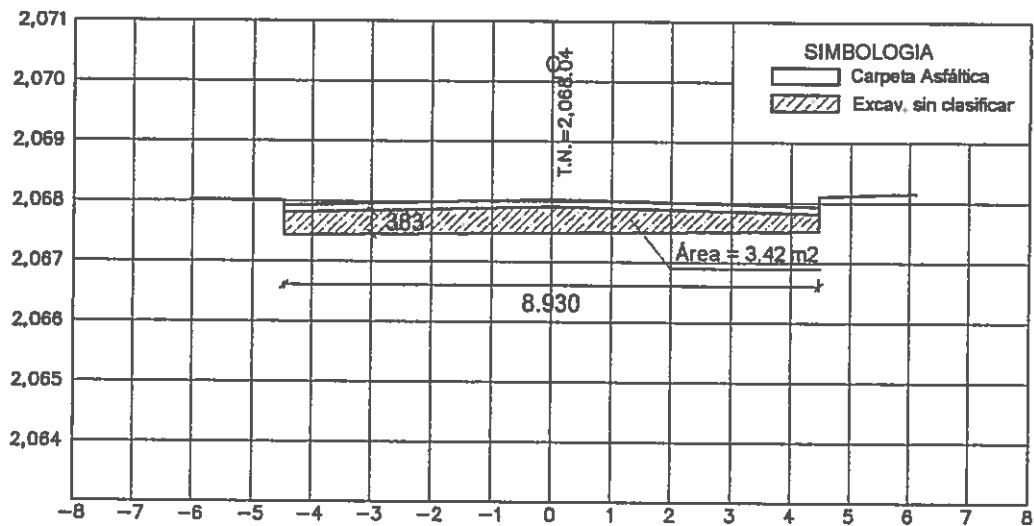
ESTACION 0+070.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



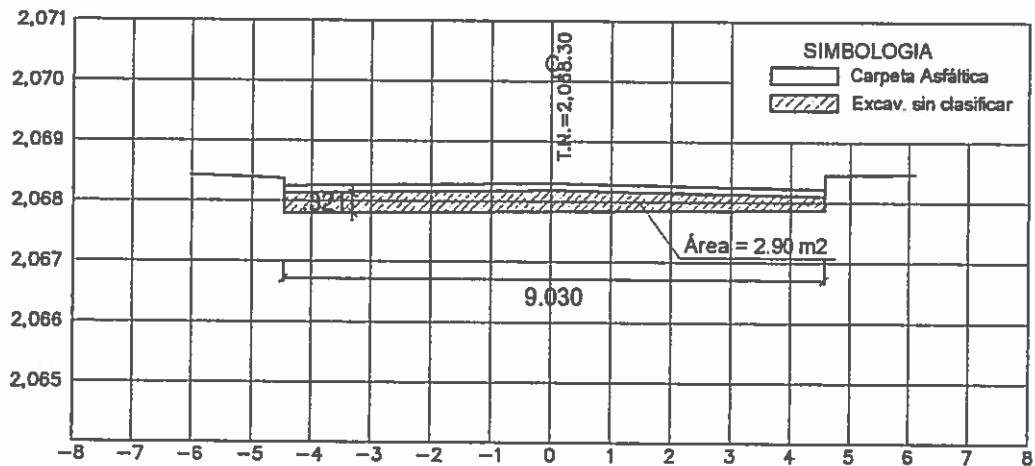
ESTACION 0+080.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



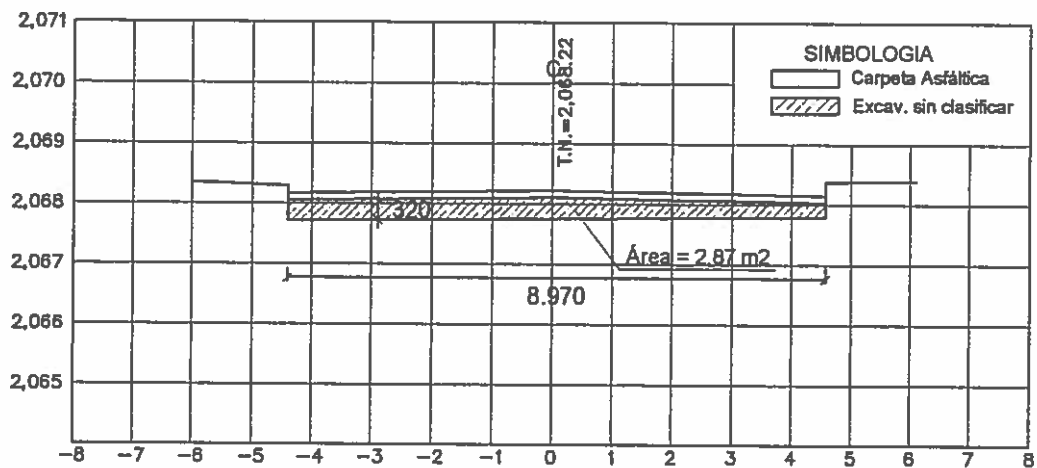
ESTACION 0+090.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



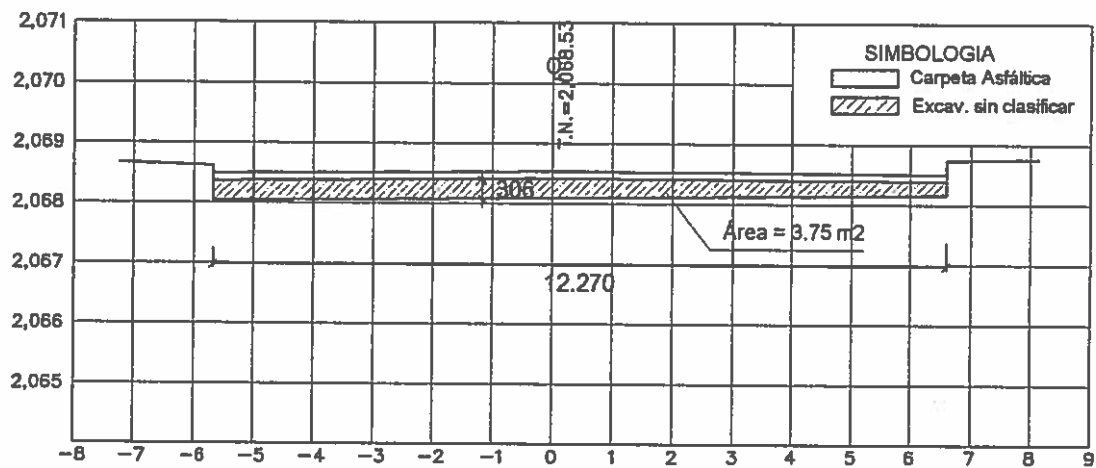
ESTACION 0+100.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+110.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

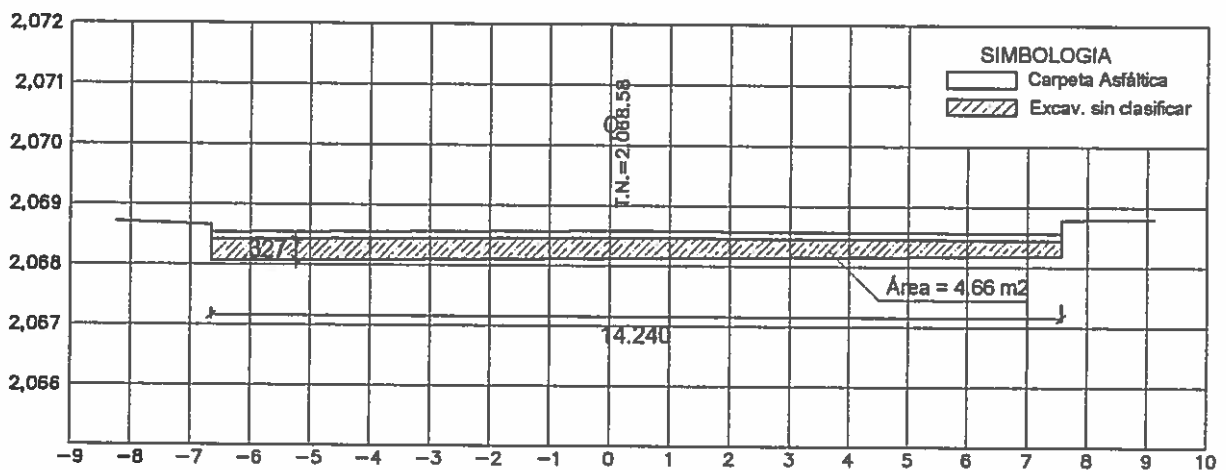


ESTACION 0+112.60
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

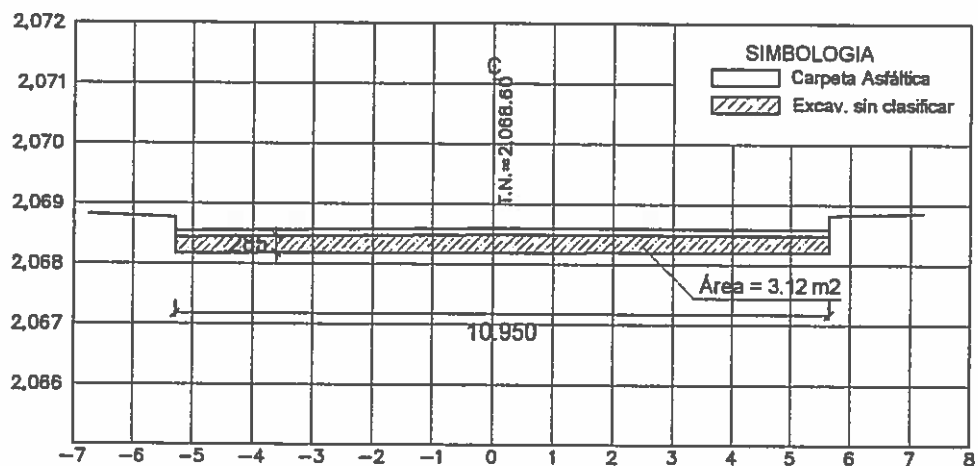


ESTACION 0+116.26
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

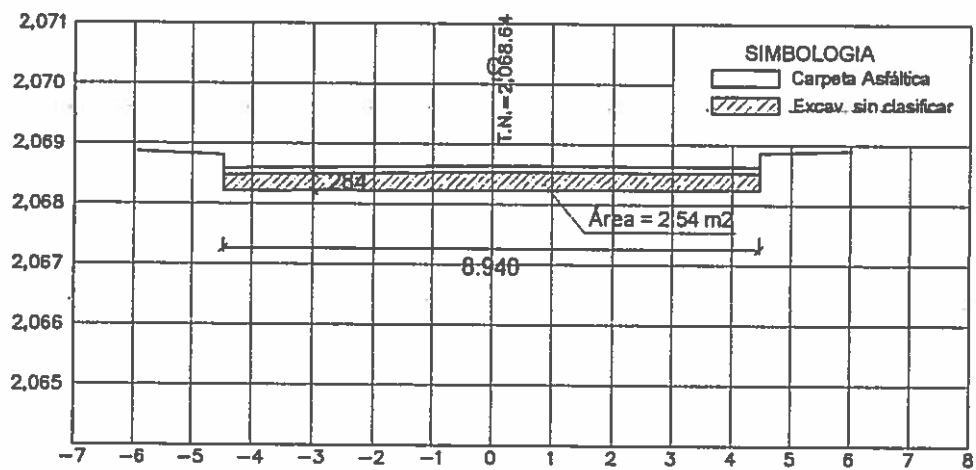
C/ MACARA DESDE MIGUEL RIOFRIO HASTA AZUAY



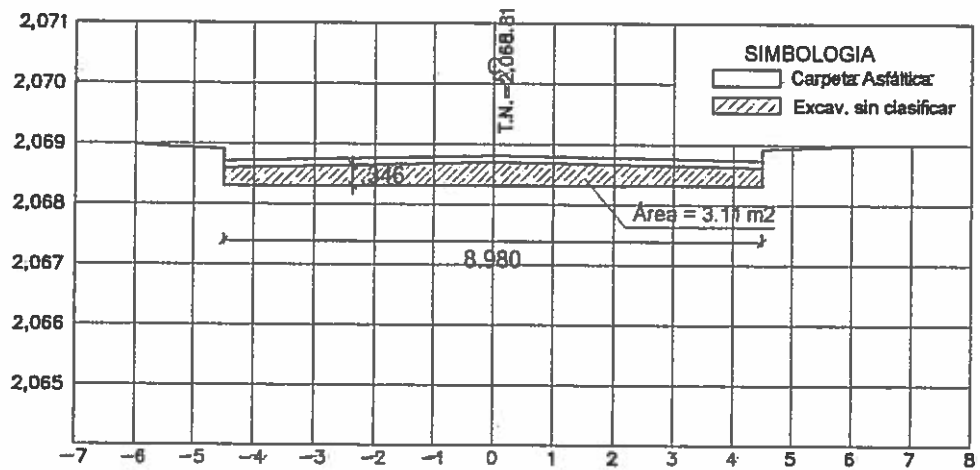
ESTACION 0+125.57
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



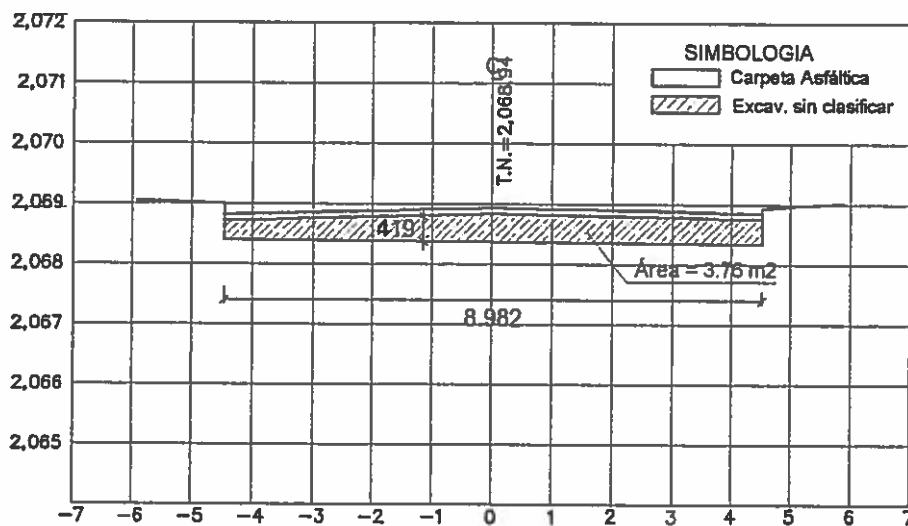
ESTACION 0+126.92
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



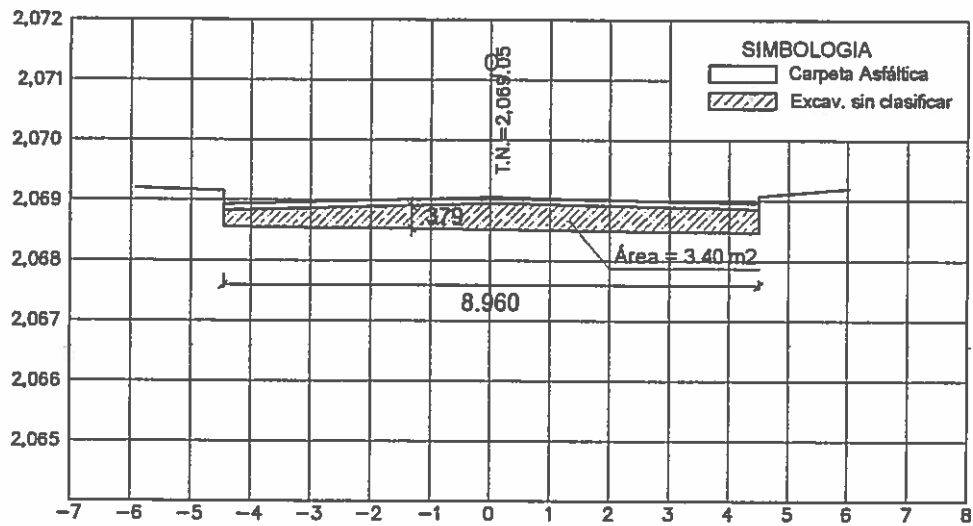
ESTACION 0+130.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



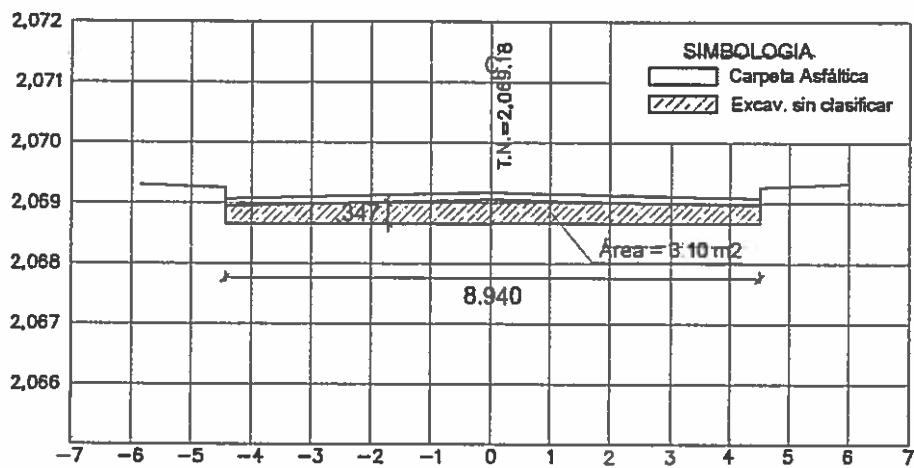
ESTACION 0+140.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



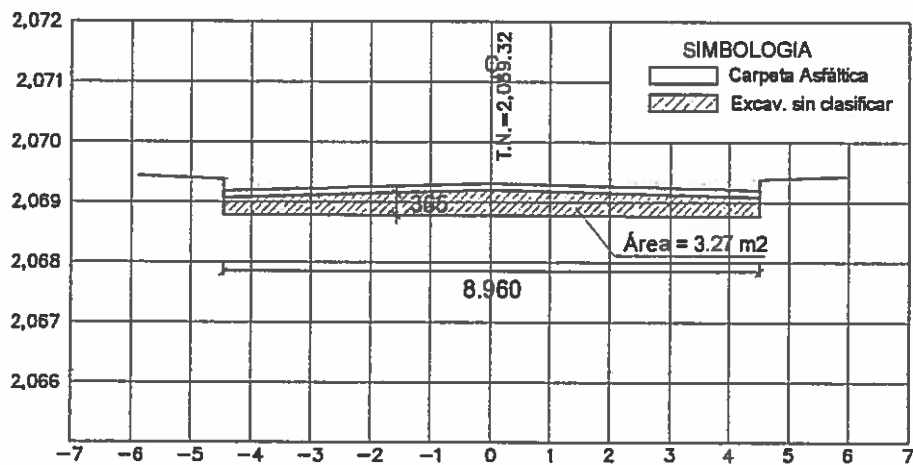
ESTACION 0+150.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



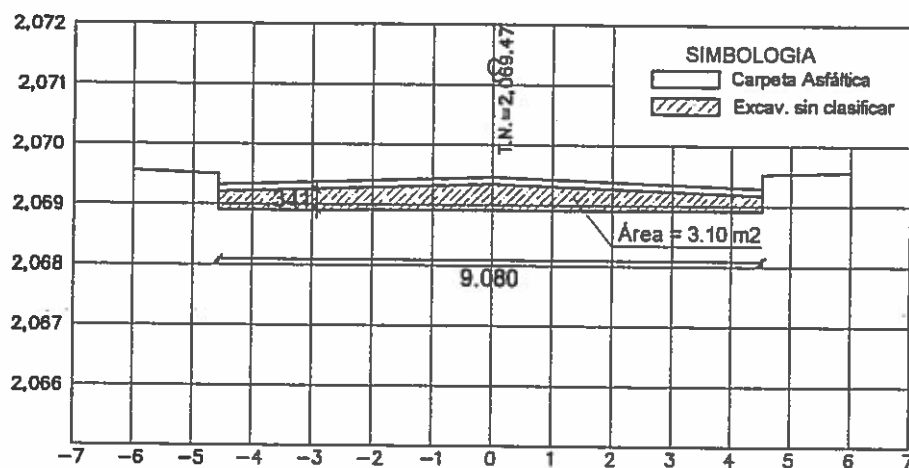
ESTACION 0+160.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



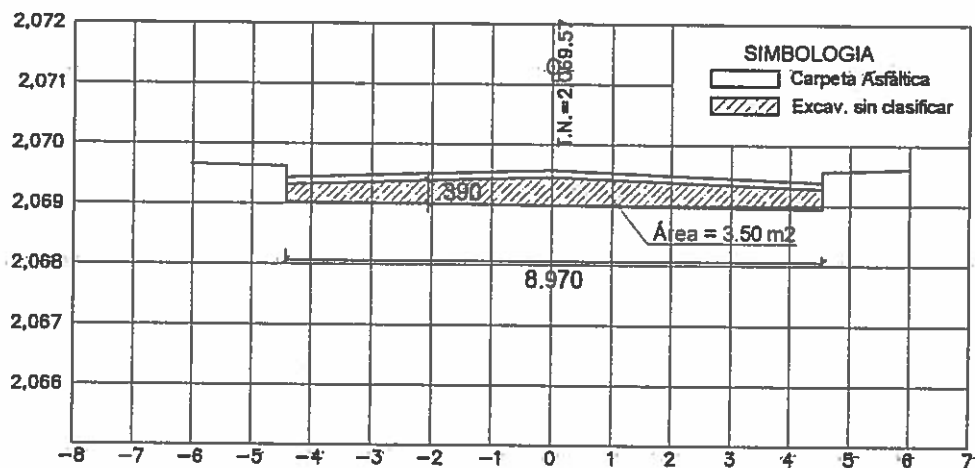
ESTACION 0+170.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



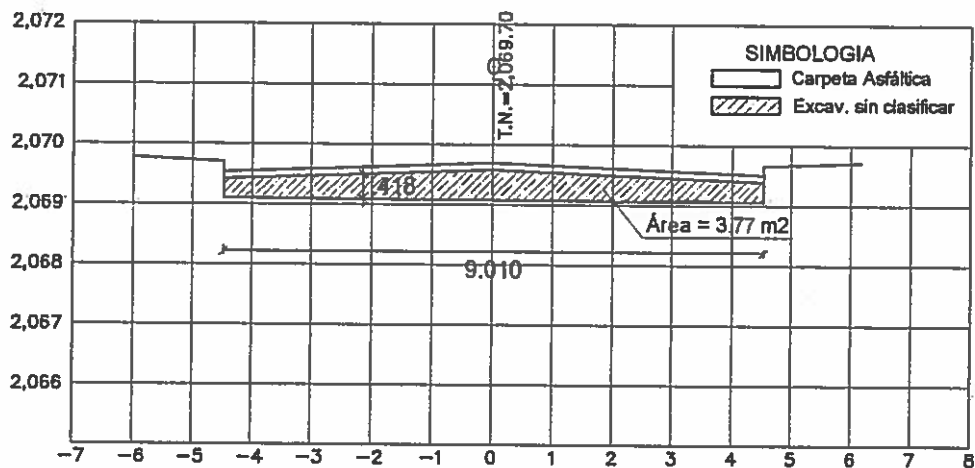
ESTACION 0+180.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



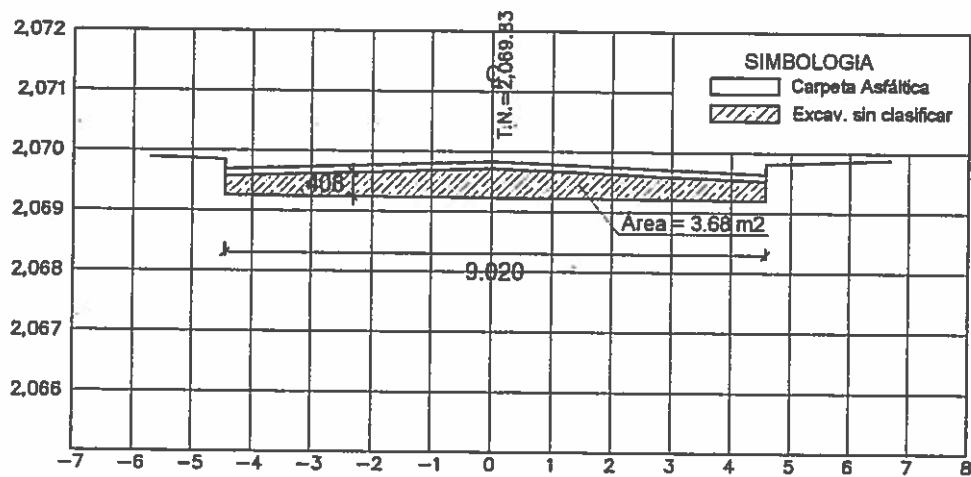
ESTACION 0+190.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



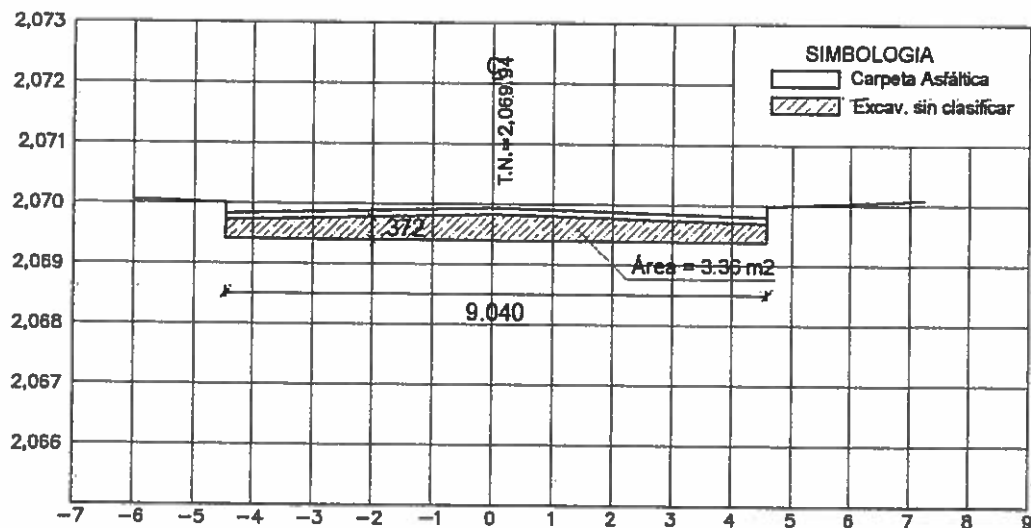
ESTACION 0+200.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



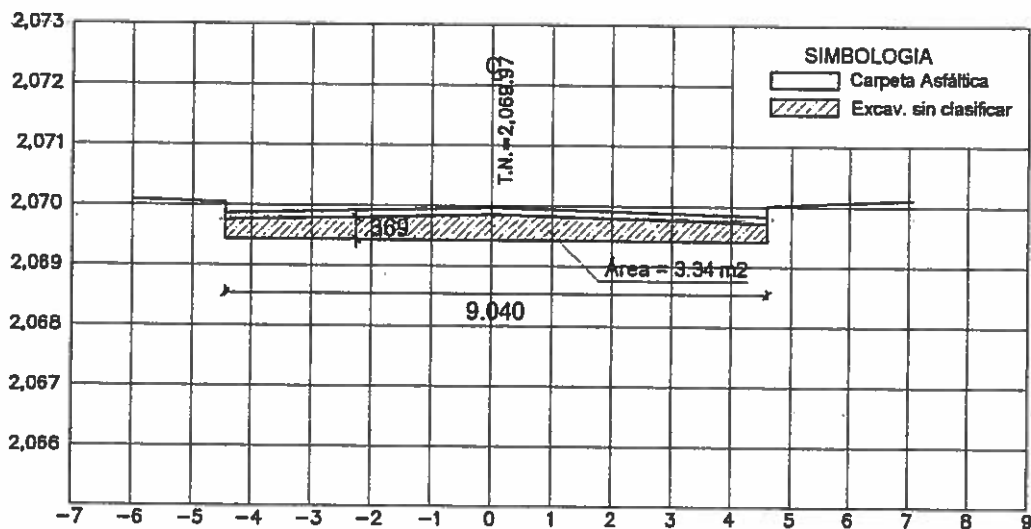
ESTACION 0+210.00
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 ESCALA VERTICAL 1 : 100



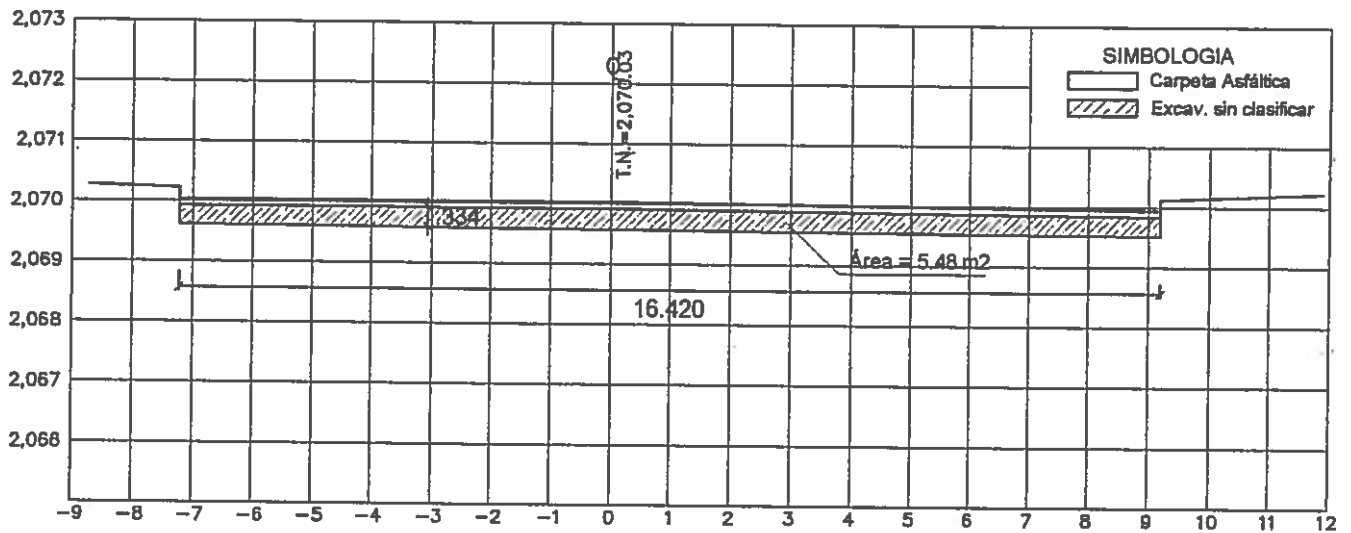
ESTACION 0+220.00
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 ESCALA VERTICAL 1 : 100



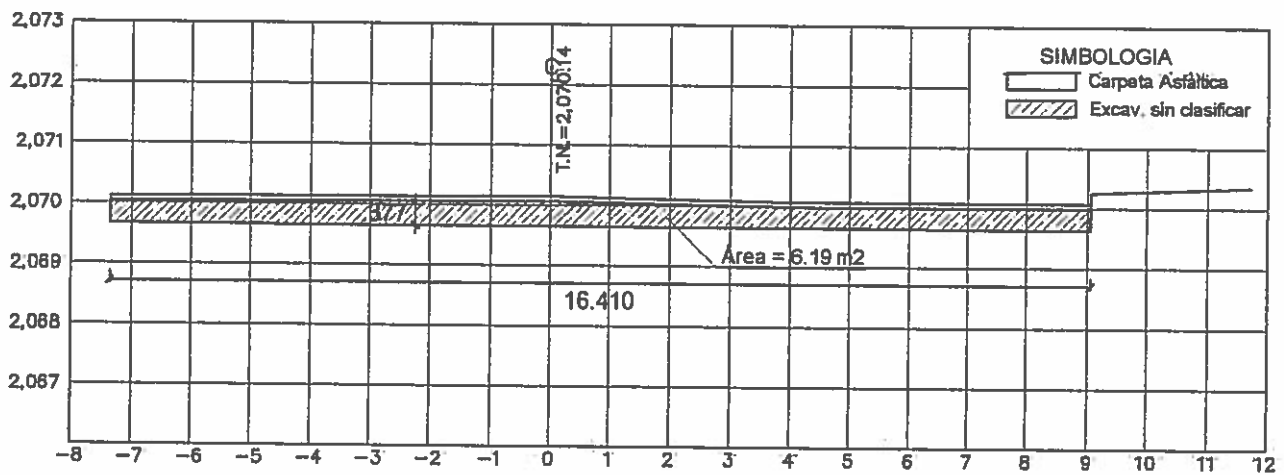
ESTACION 0+230.00
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 ESCALA VERTICAL 1 : 100



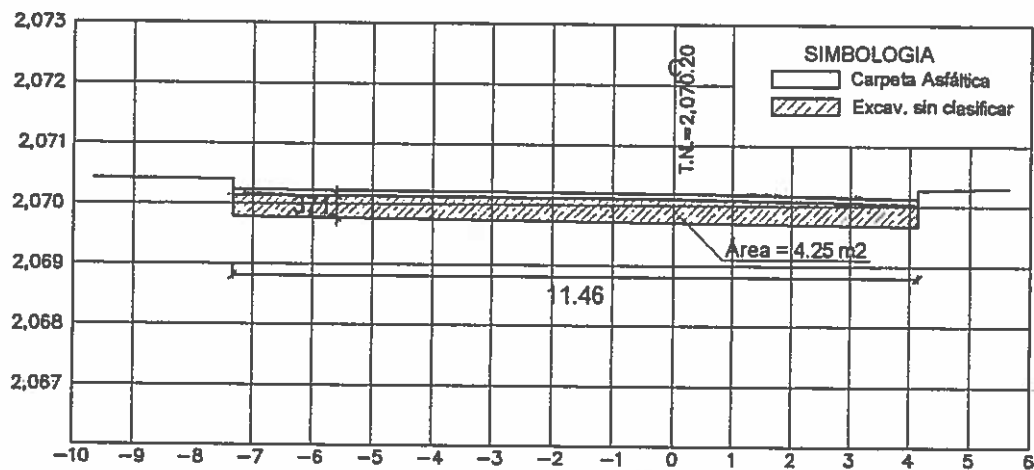
ESTACION 0+234.98
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+239.29
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

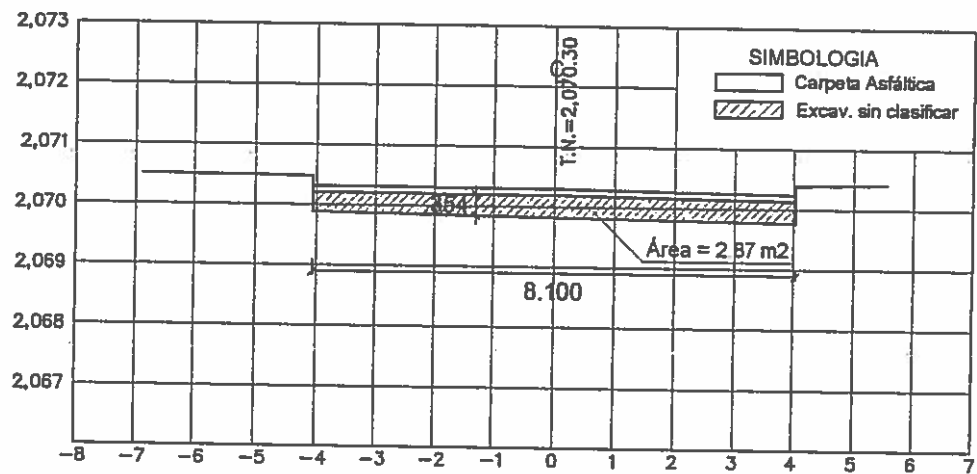


ESTACION 0+248.44
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+252.63
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

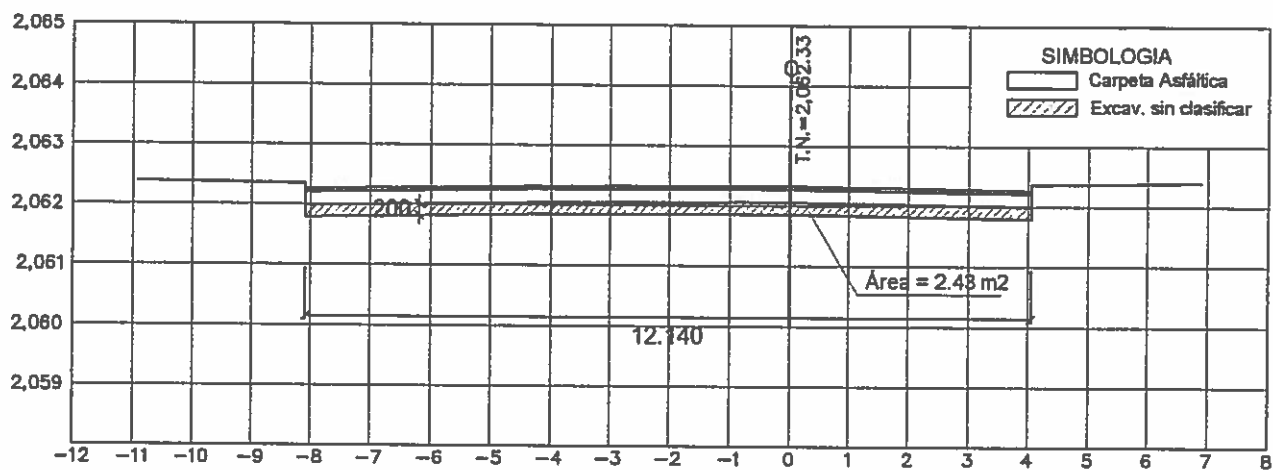
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ESTACION 0+260.00
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ESCALA VERTICAL 1 : 100

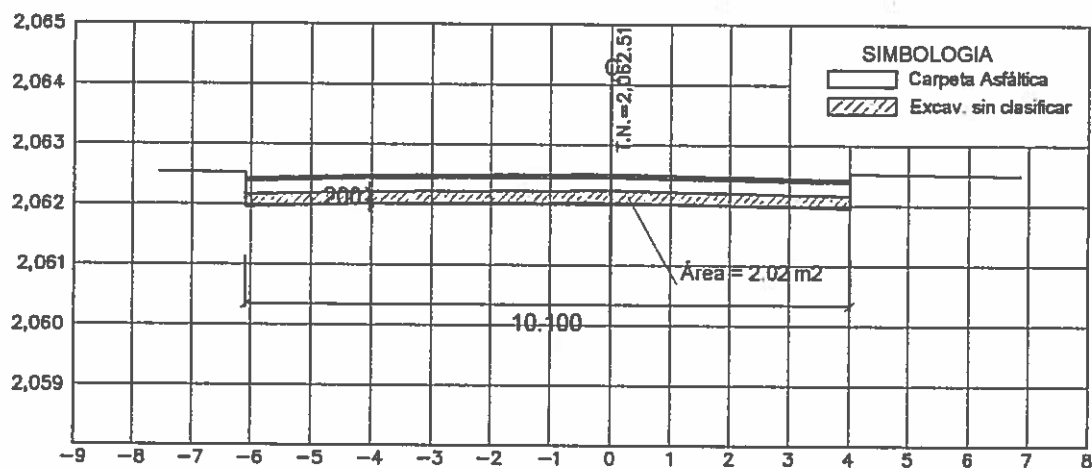
4

AV. 24 DE MAYO ENTRE AV. EMILIANO ORTEGA Y J. A. EGUIGUREN



ESTACION 0+020.00

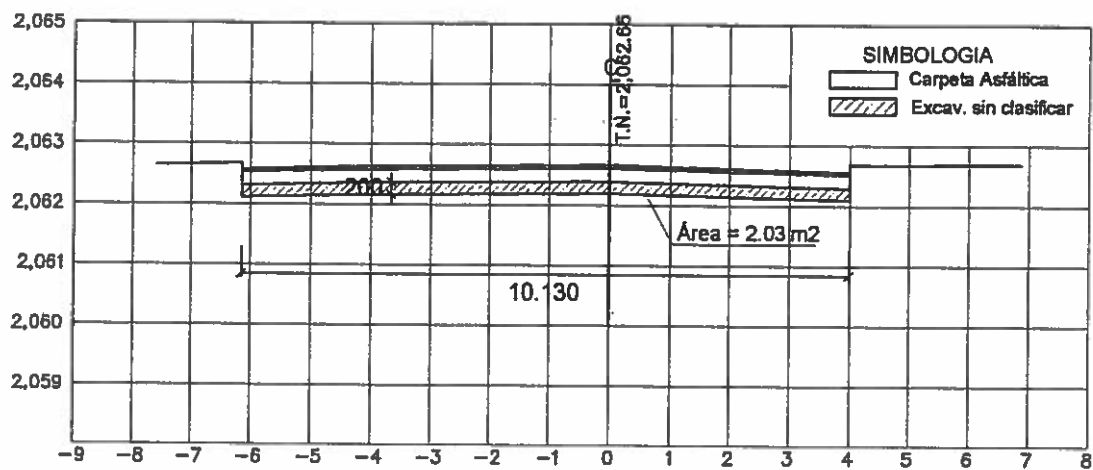
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



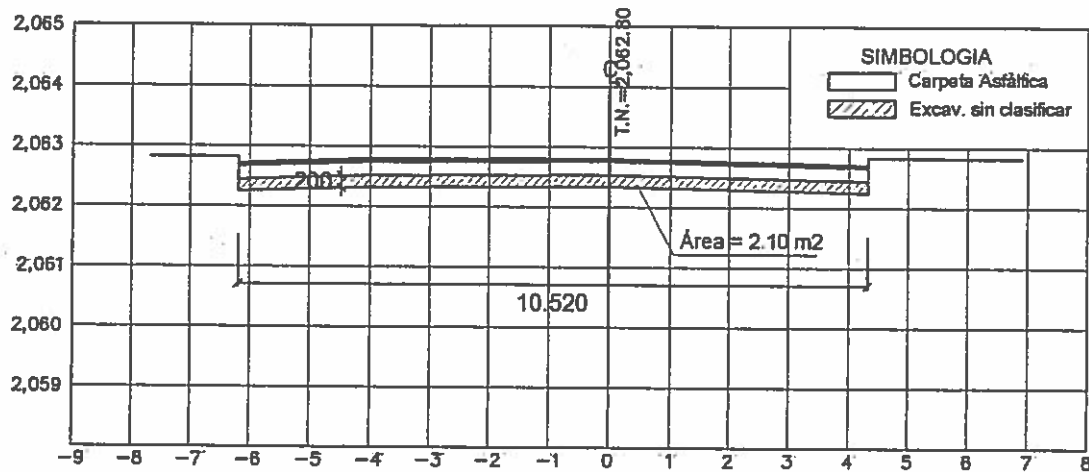
ESTACION 0+030.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

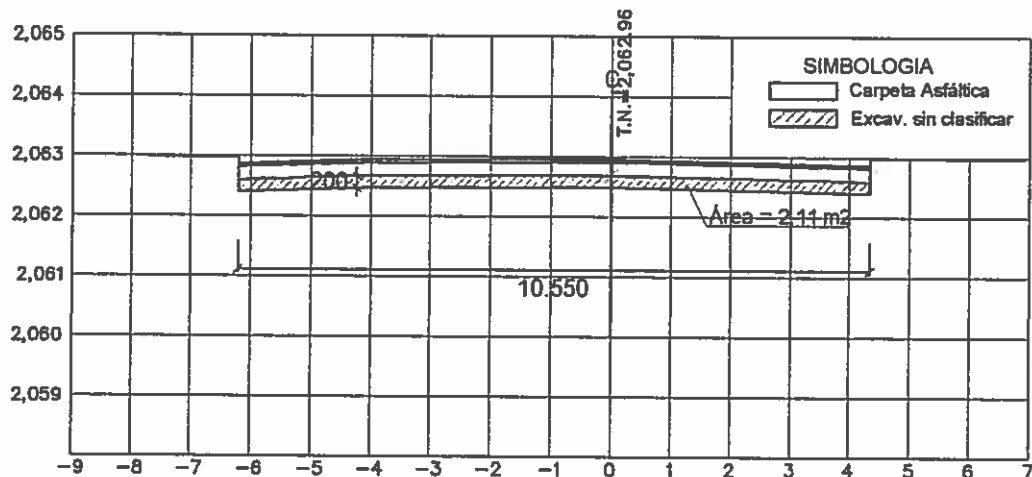
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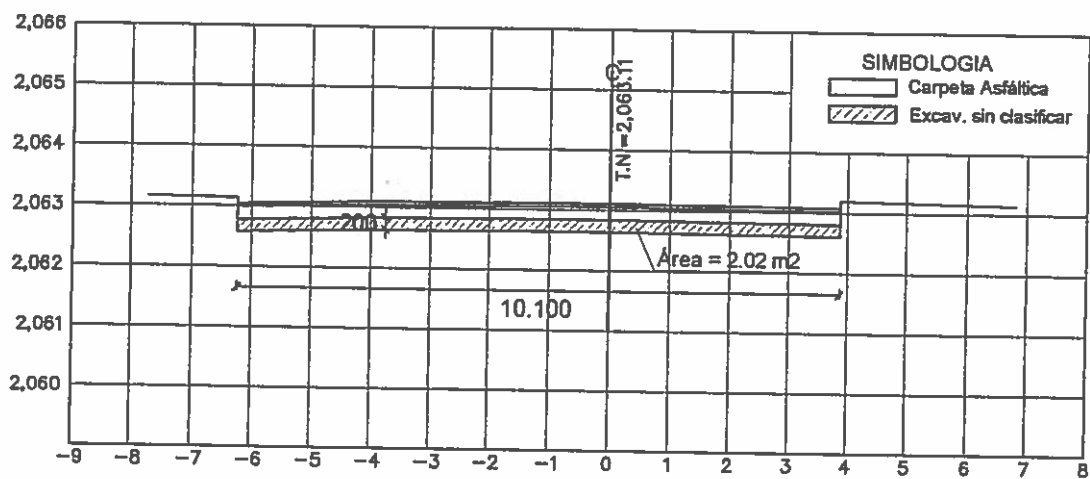
ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

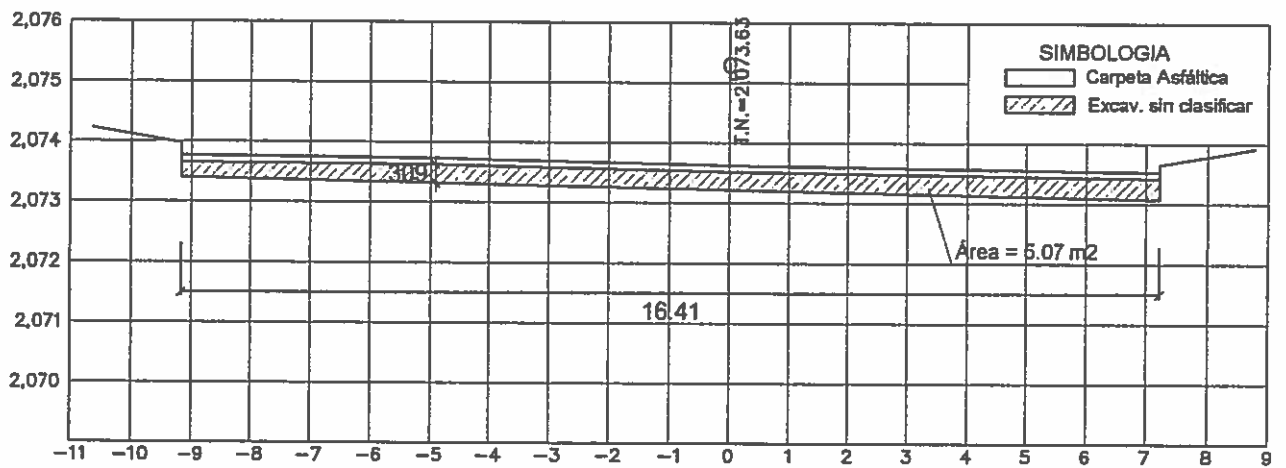


ESTACION 0+070.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

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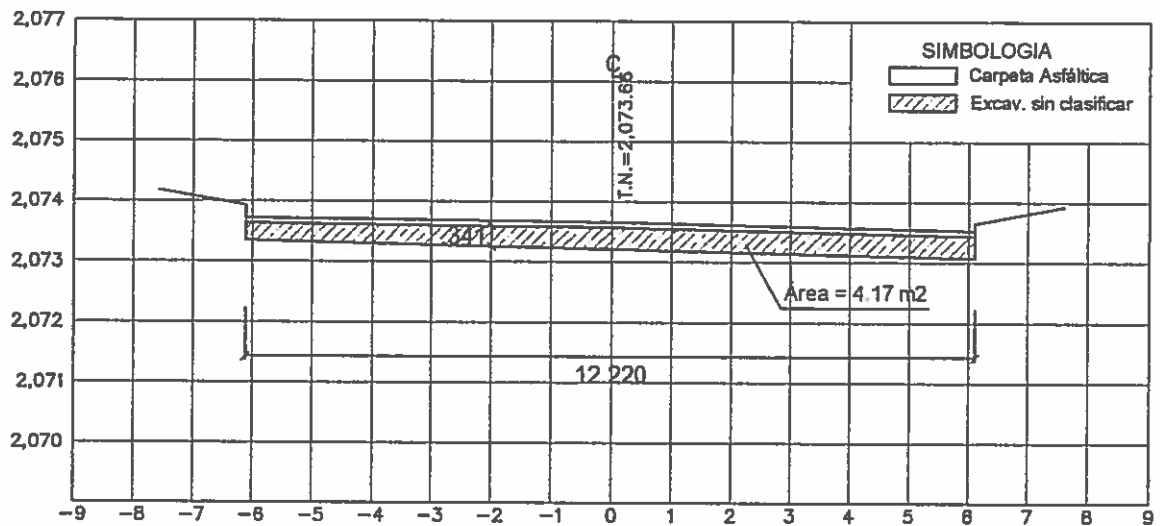
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C/ LOURDES ENTRE E. ORTEGA Y MACARA



ESTACION 0+005.65

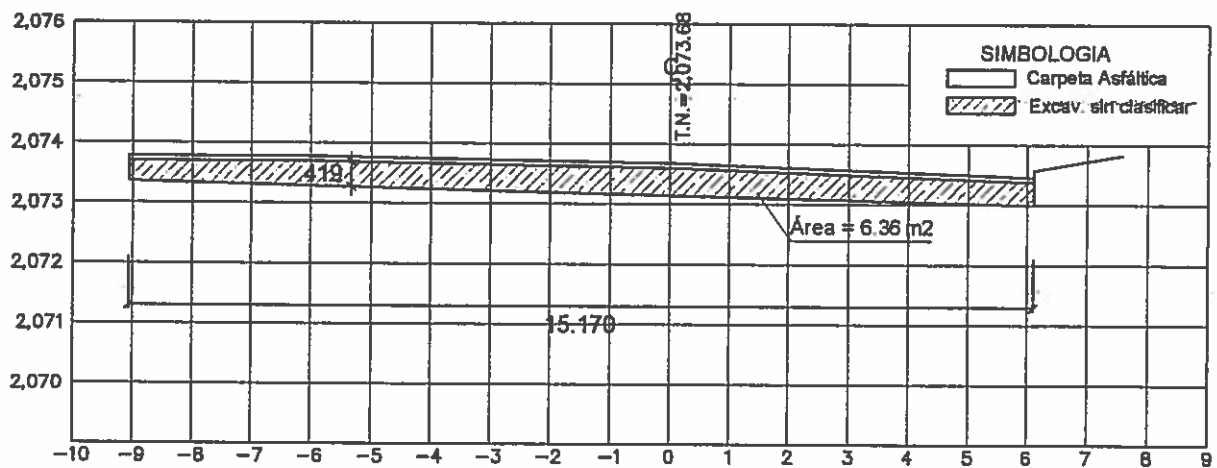
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ESCALA VERTICAL 1 : 100



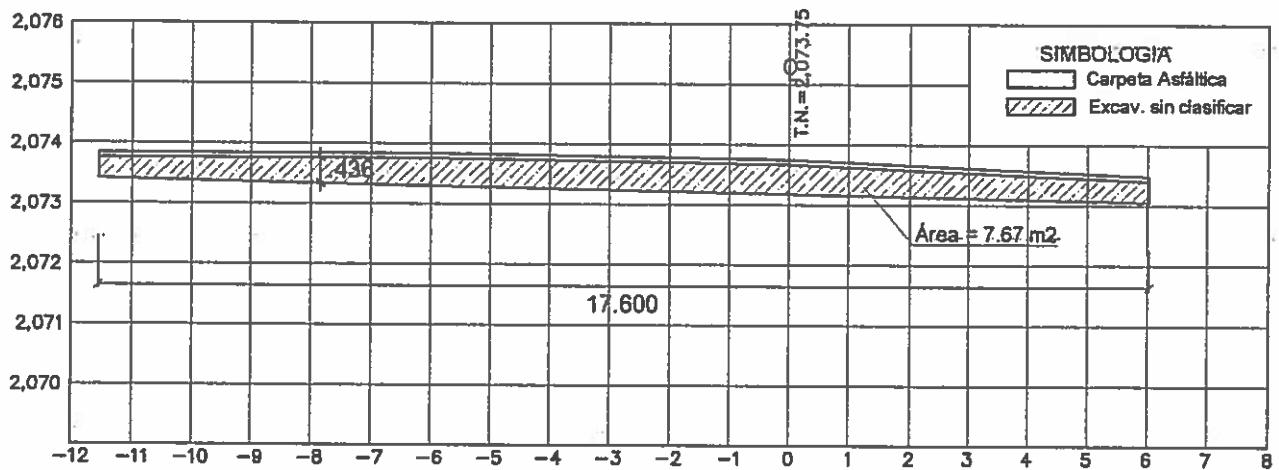
ESTACION 0+010.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

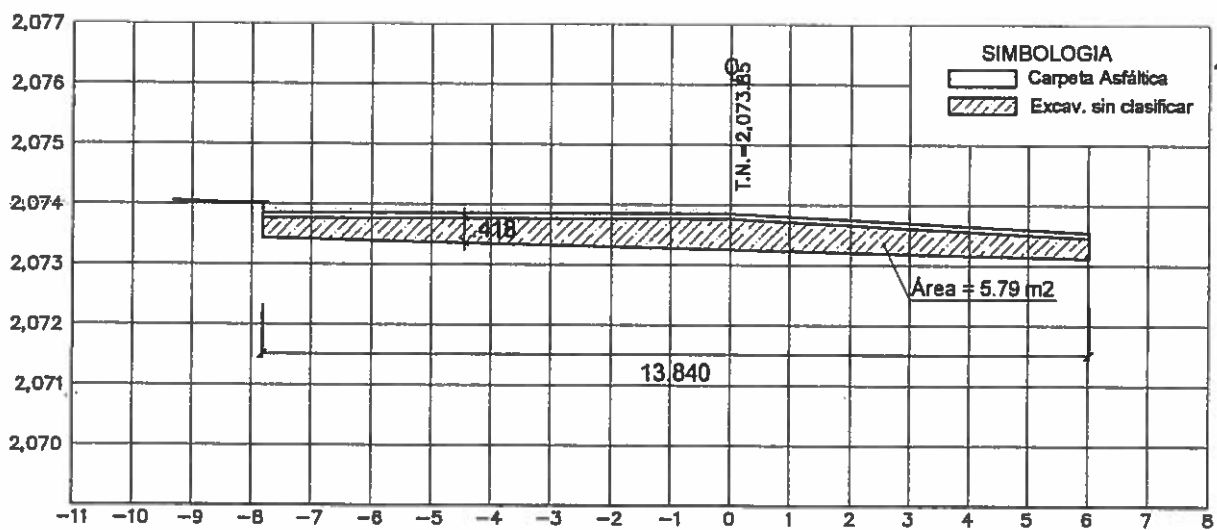
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ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

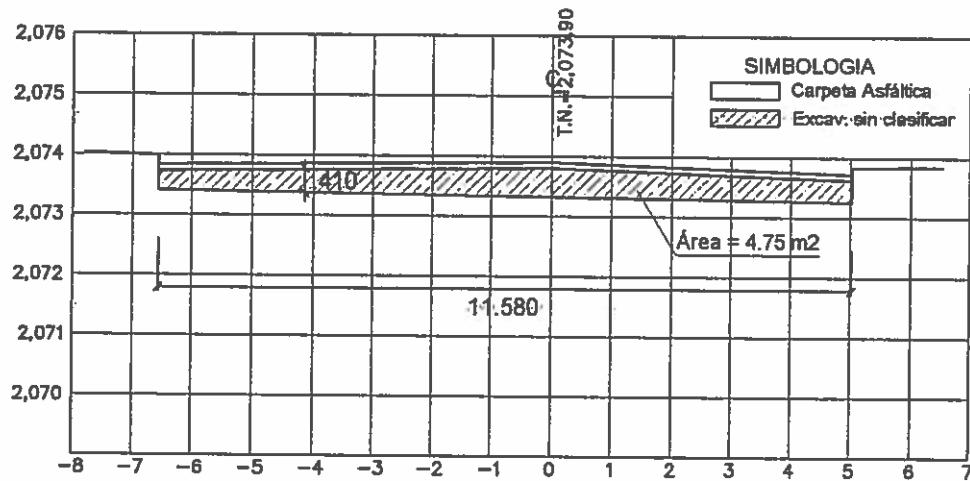


ESTACION 0+030.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

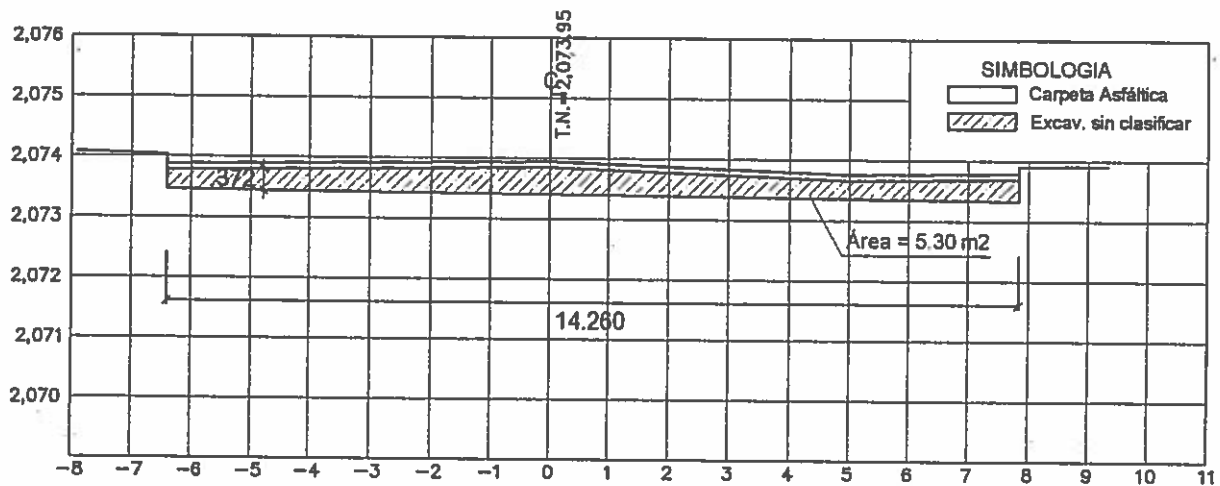


ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

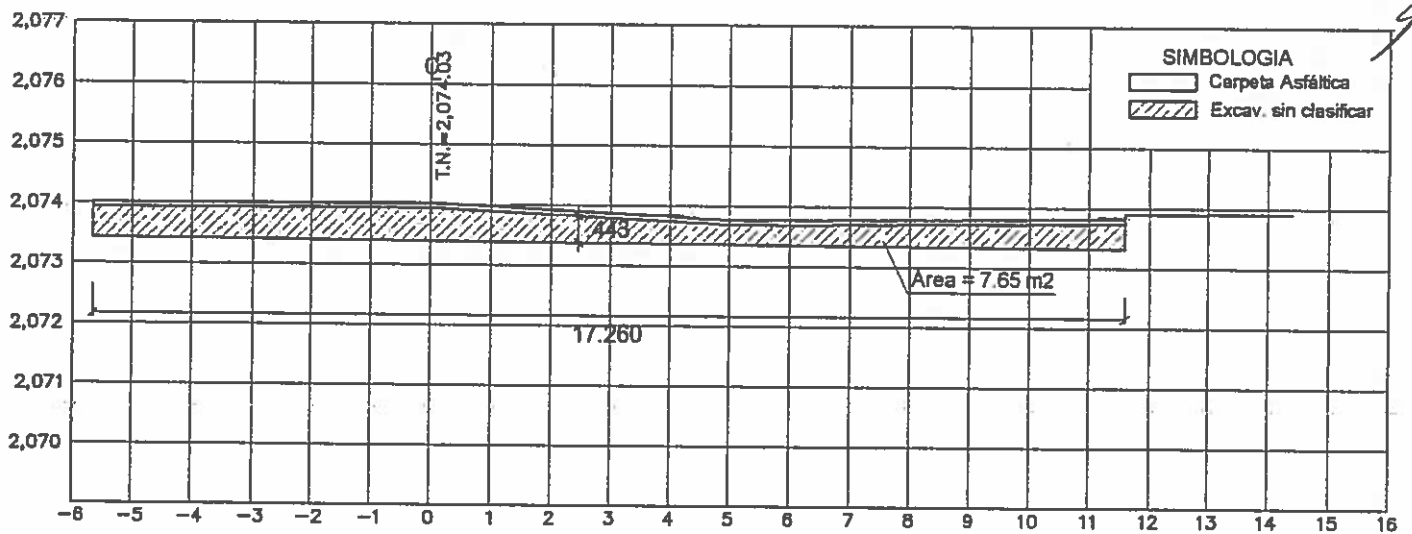
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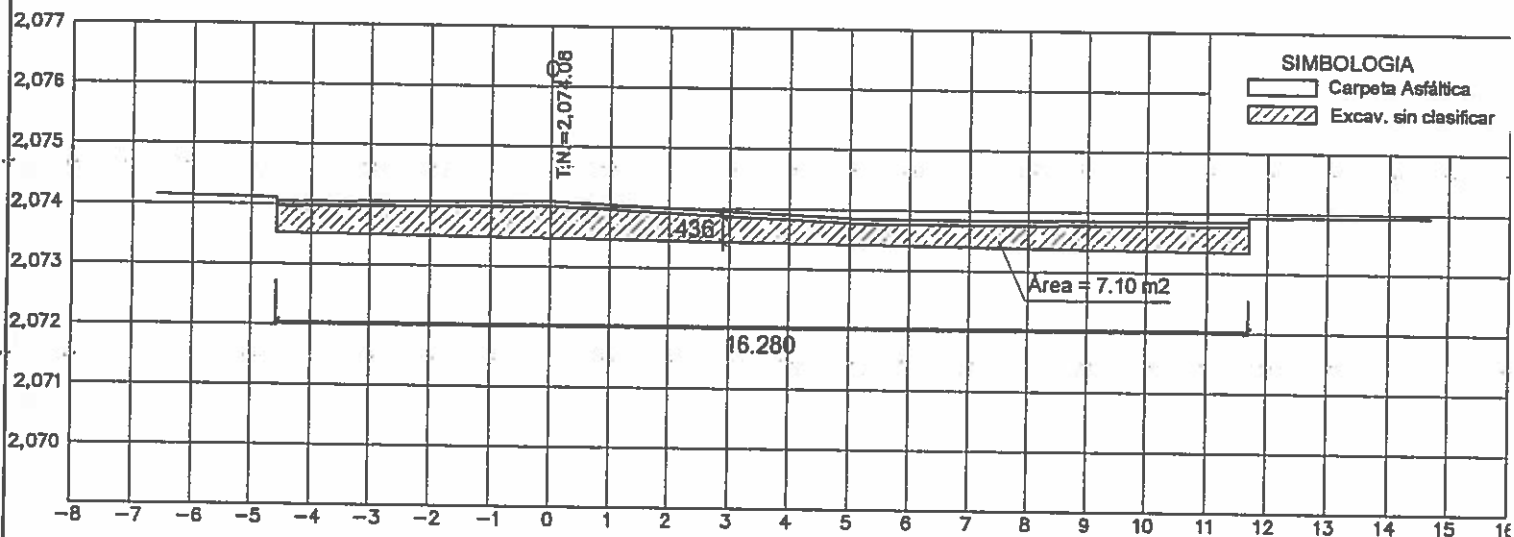
ESTACION 0+045.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



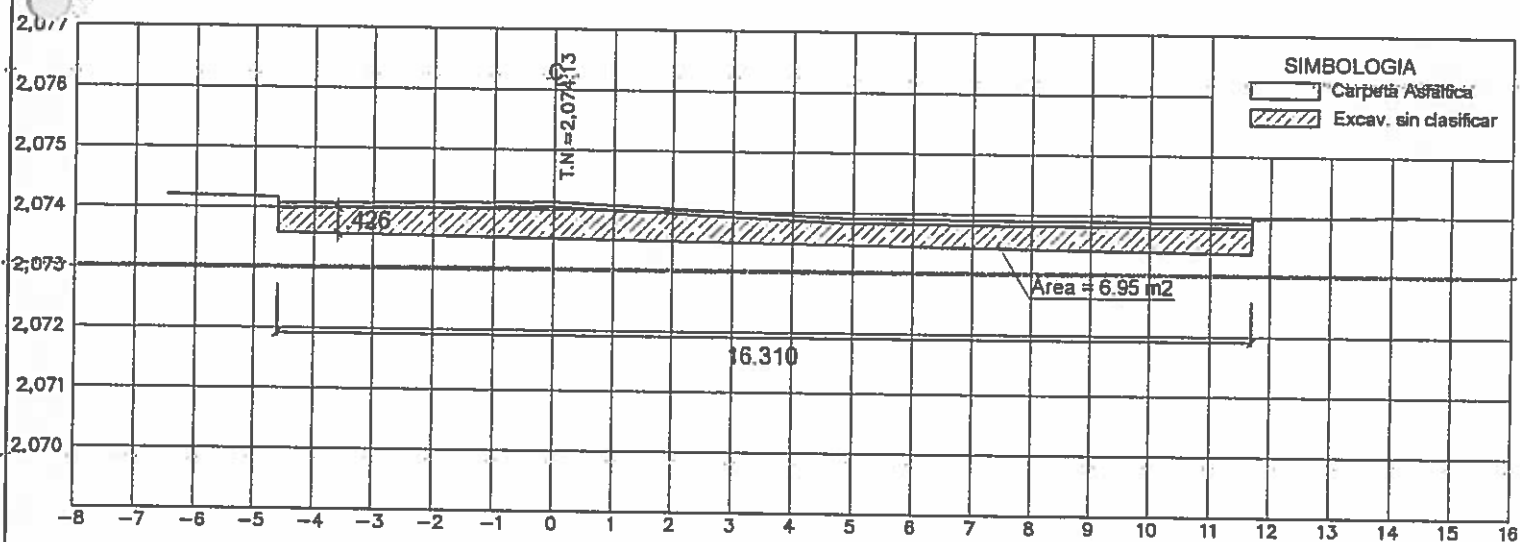
ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+070.00

ESCALA HORIZONTAL 1 : 100

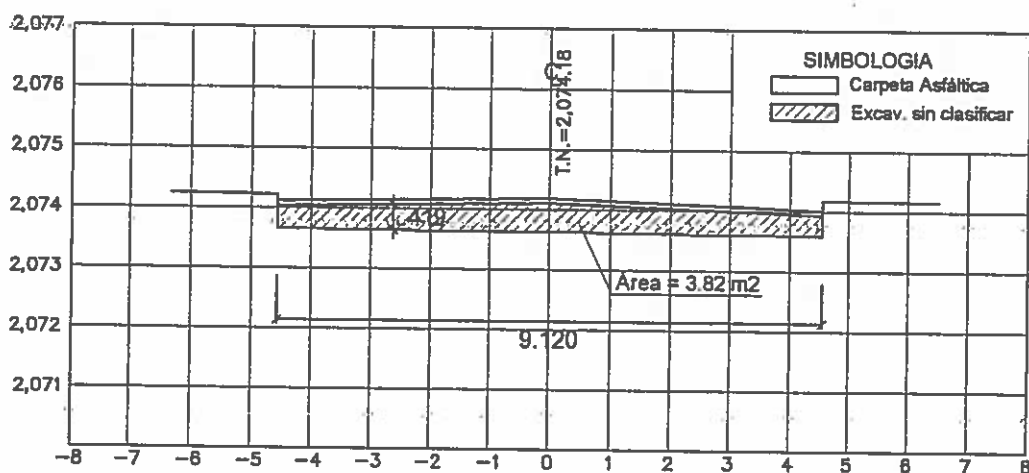
ESCALA VERTICAL 1 : 100



ESTACION 0+080.00

ESCALA HORIZONTAL 1 : 100

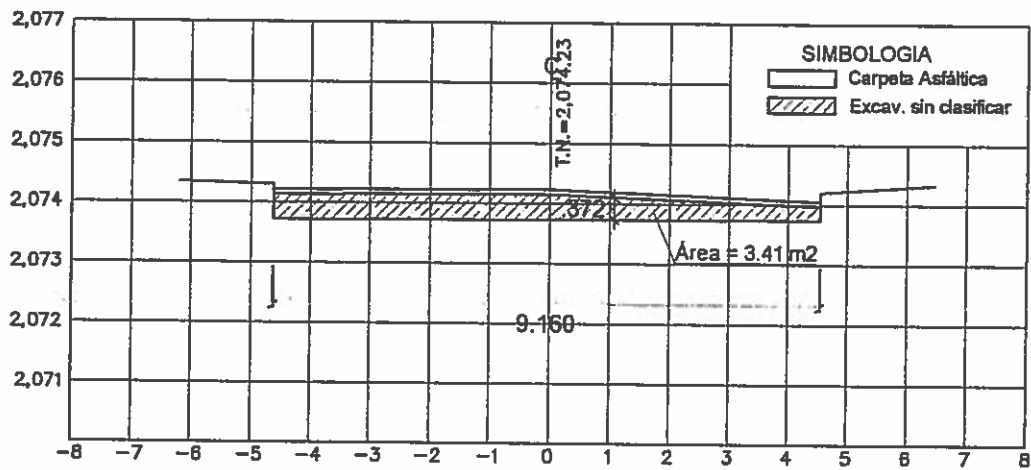
ESCALA VERTICAL 1 : 100



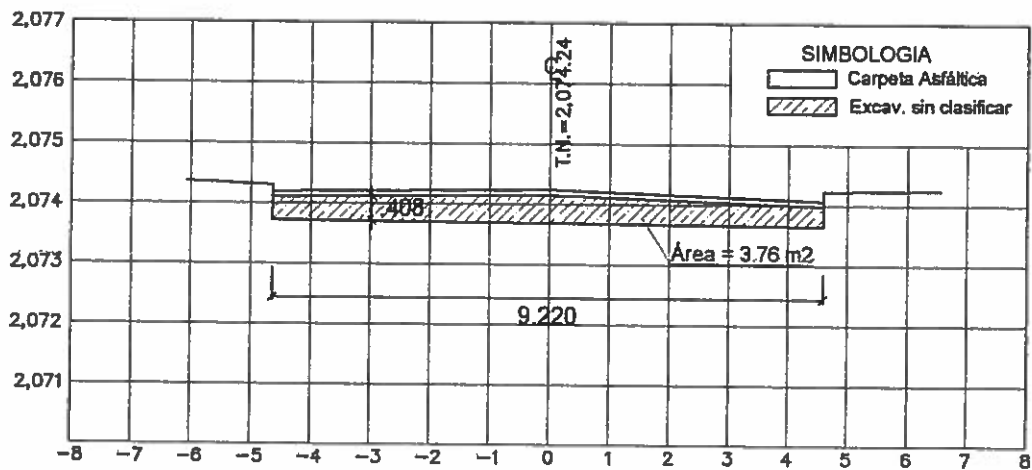
ESTACION 0+090.00

ESCALA HORIZONTAL 1 : 100

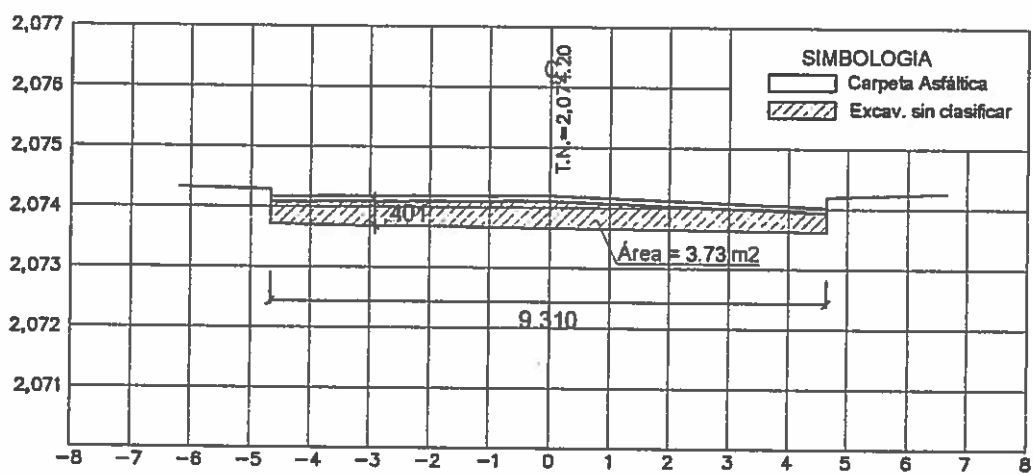
ESCALA VERTICAL 1 : 100



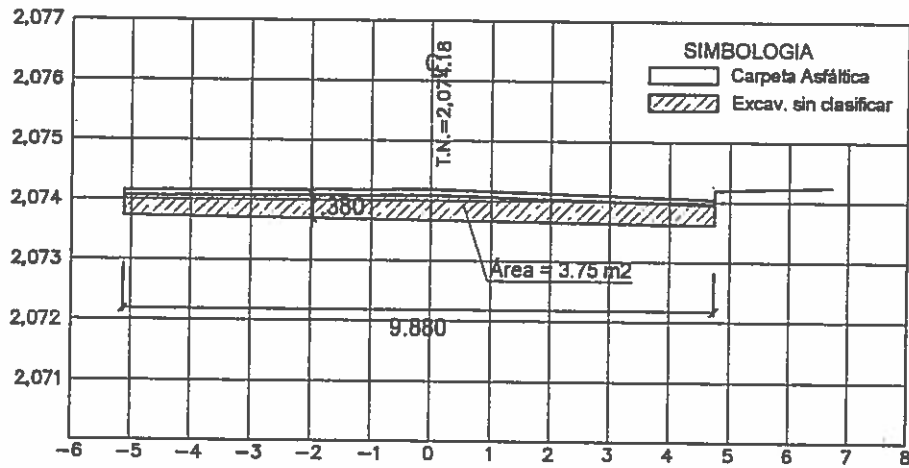
ESTACION 0+100.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



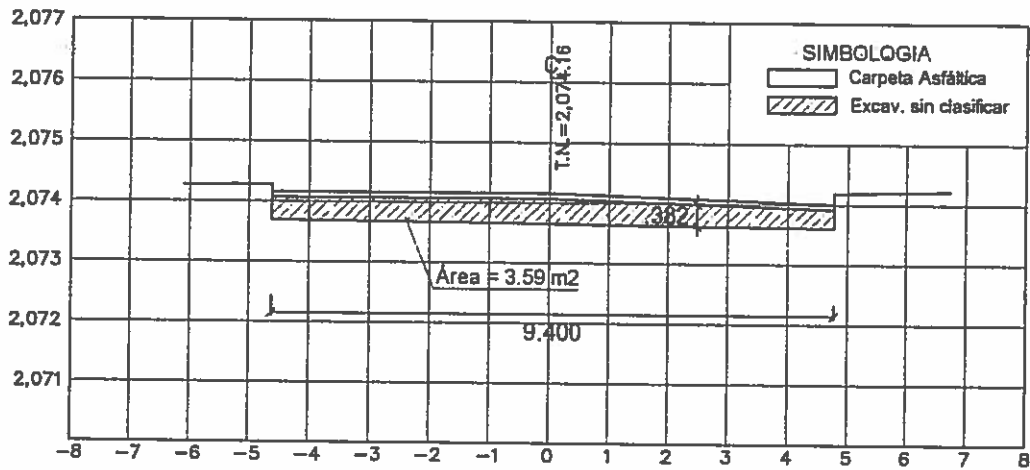
ESTACION 0+110.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



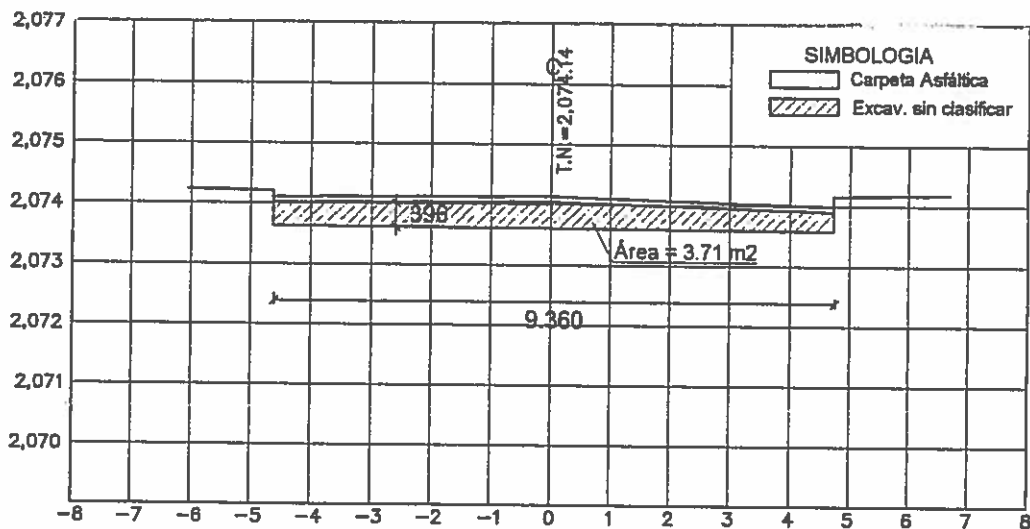
ESTACION 0+120.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



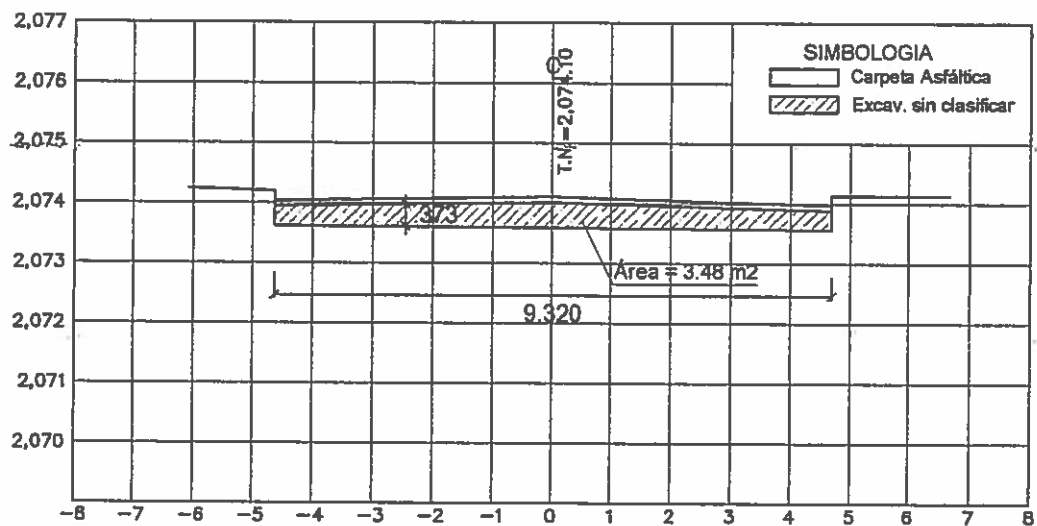
ESTACION 0+130.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



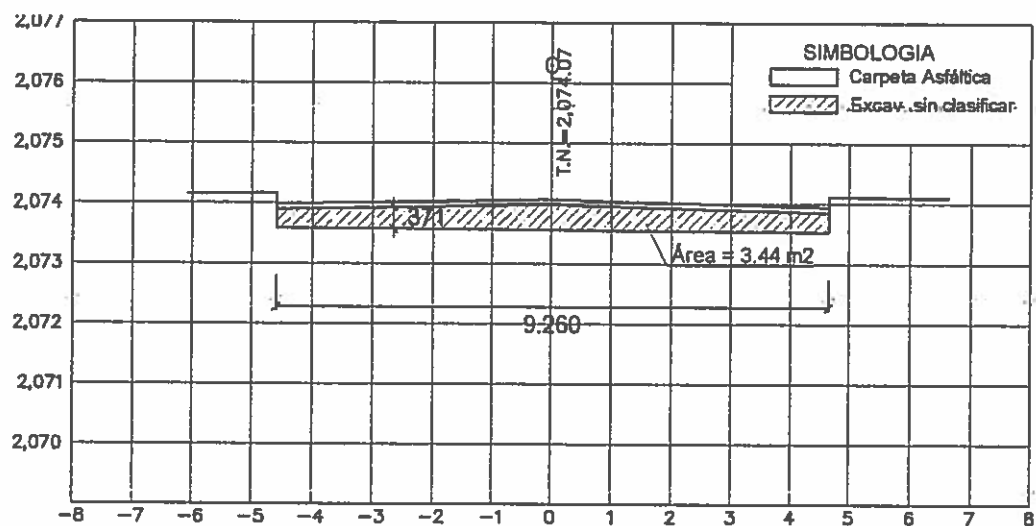
ESTACION 0+140.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



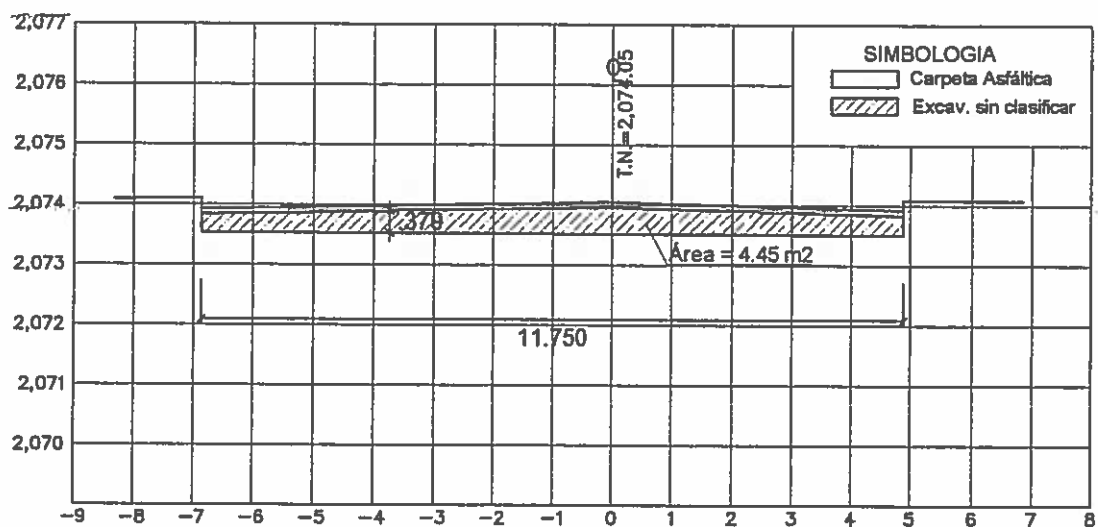
ESTACION 0+150.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



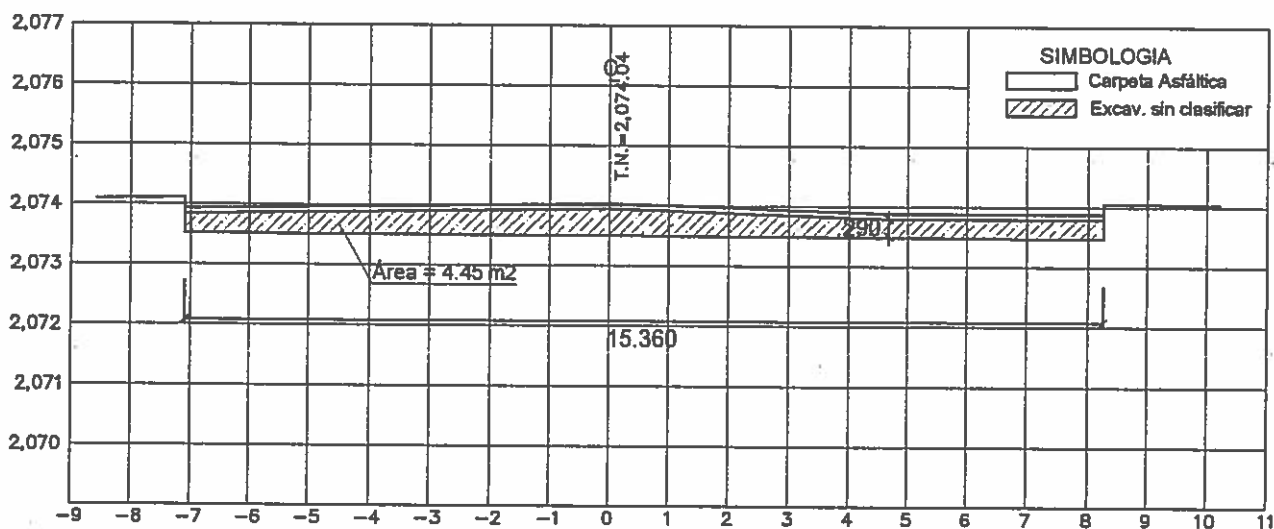
ESTACION 0+160.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



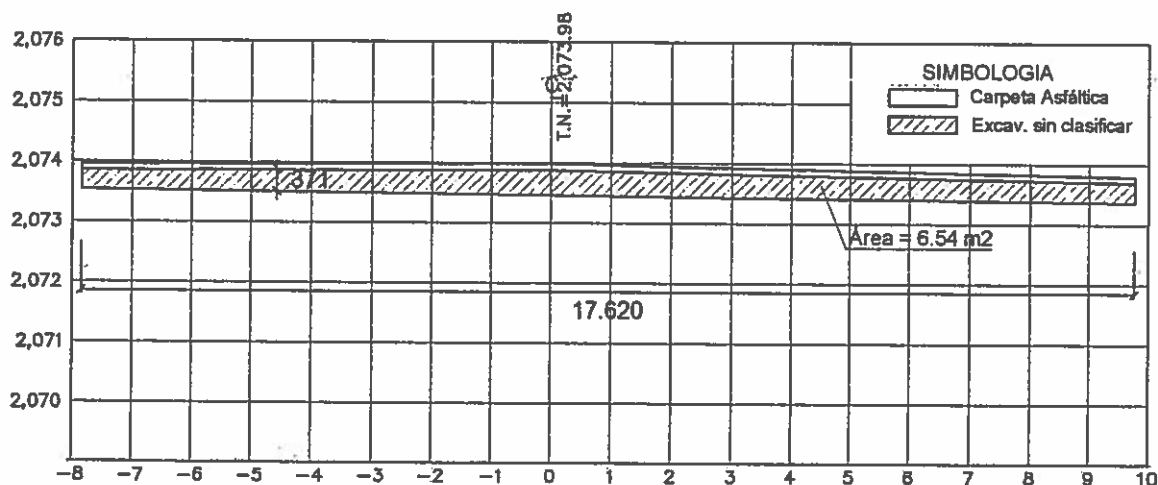
ESTACION 0+170.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



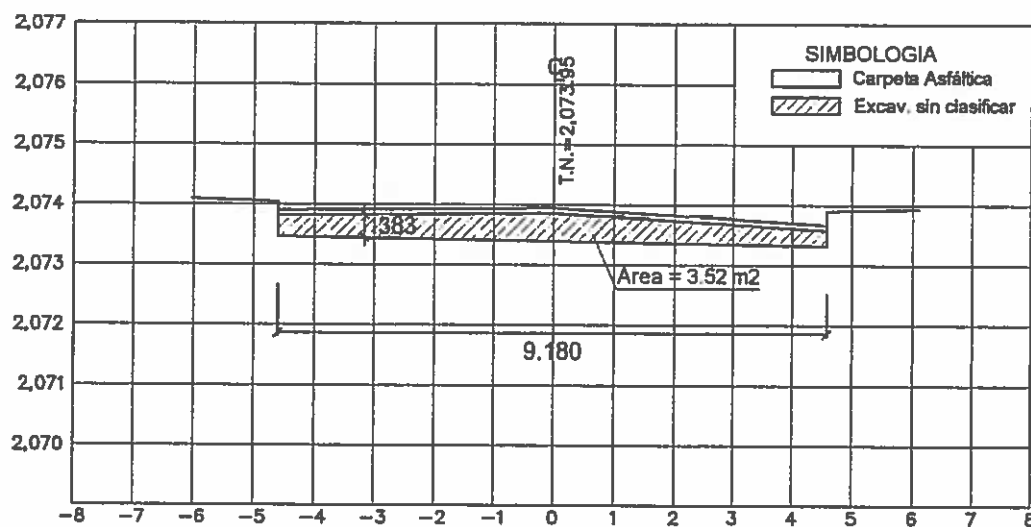
ESTACION 0+175.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+180.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

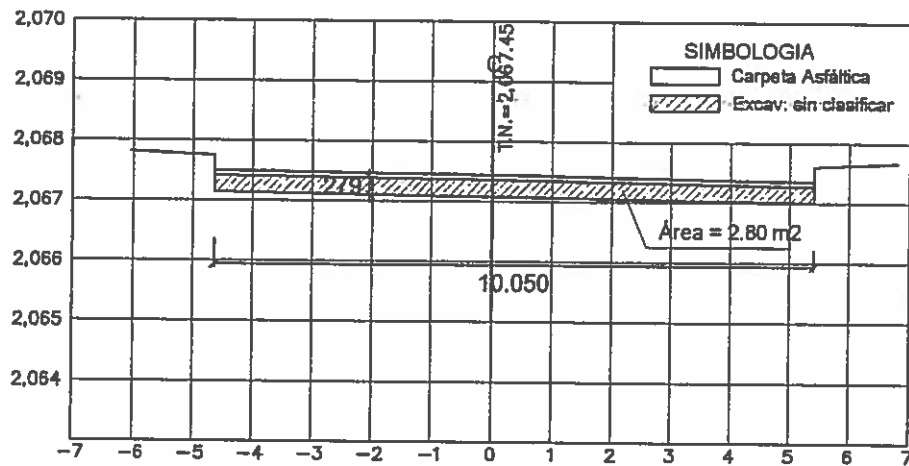


ESTACION 0+190.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

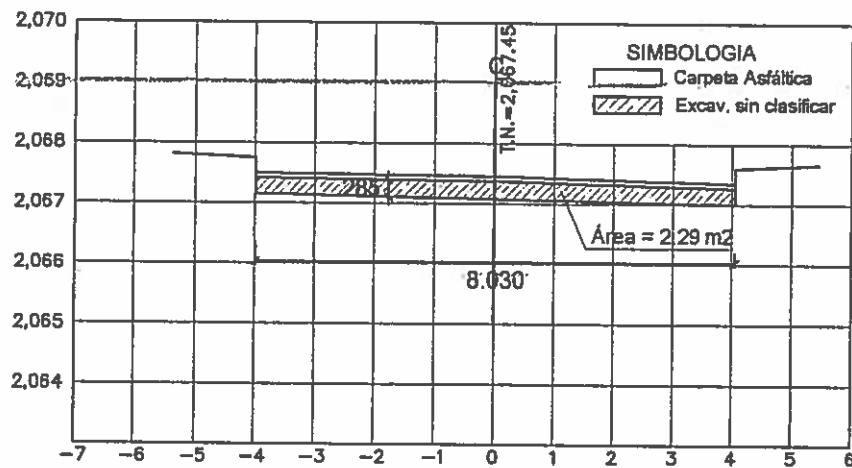


ESTACION 0+200.00
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

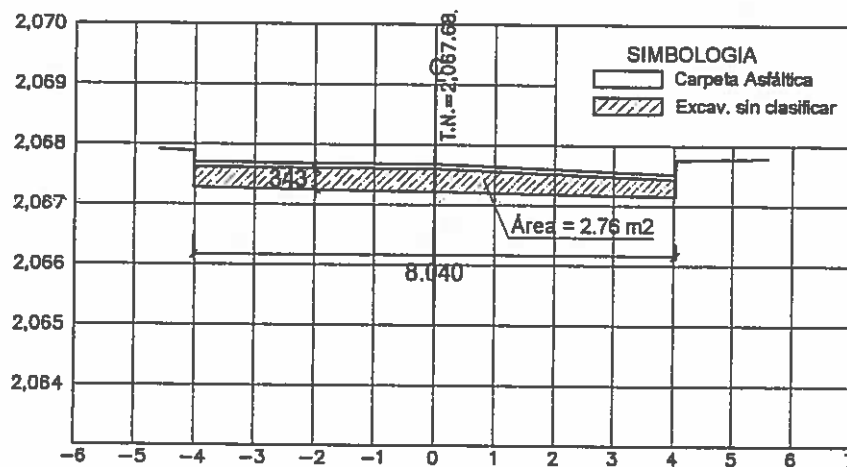
C/ MIGUEL RIOFRIO DESDE AV. EMILIANO ORTEGA HASTA MACARA



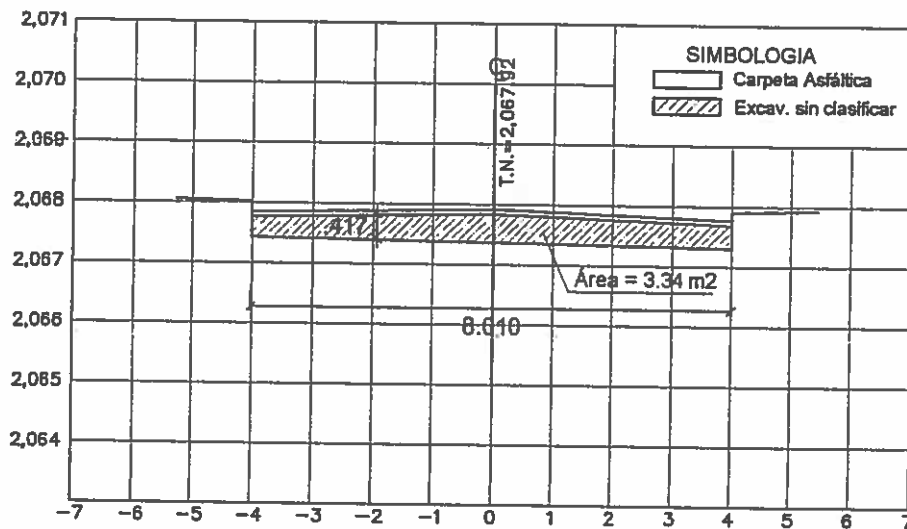
ESTACION 0+008.19
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



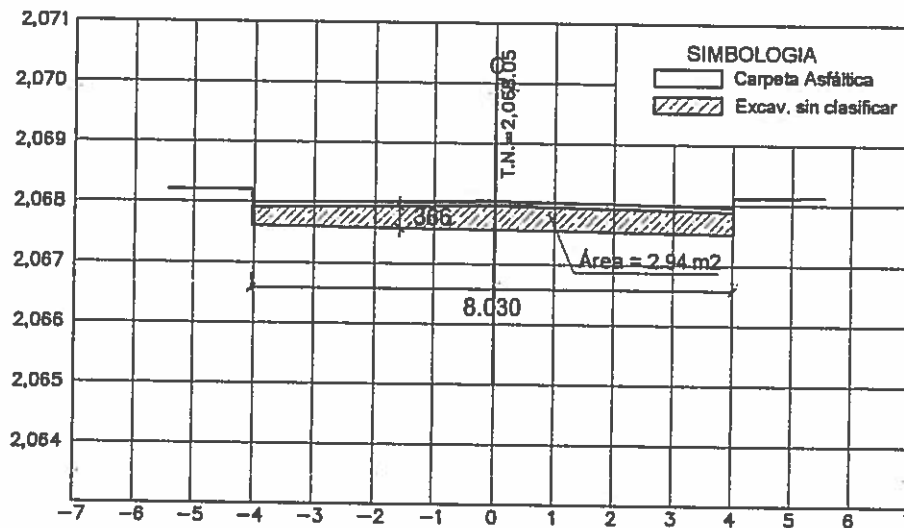
ESTACION 0+013.54
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



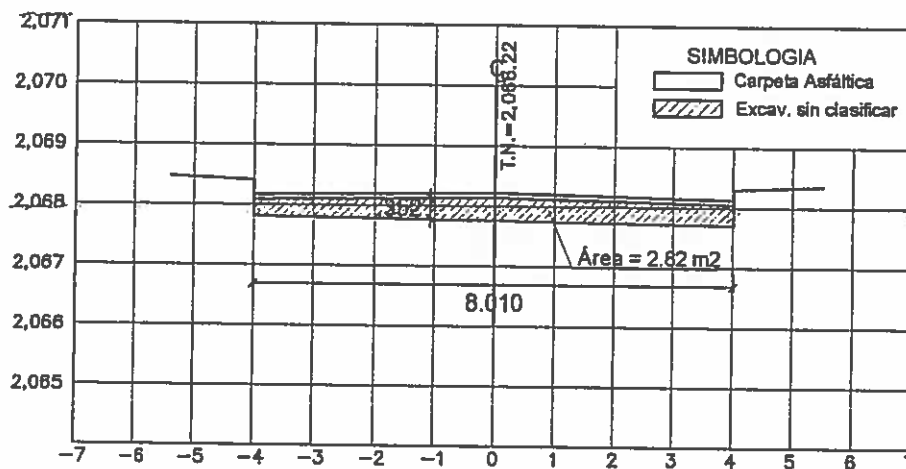
ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



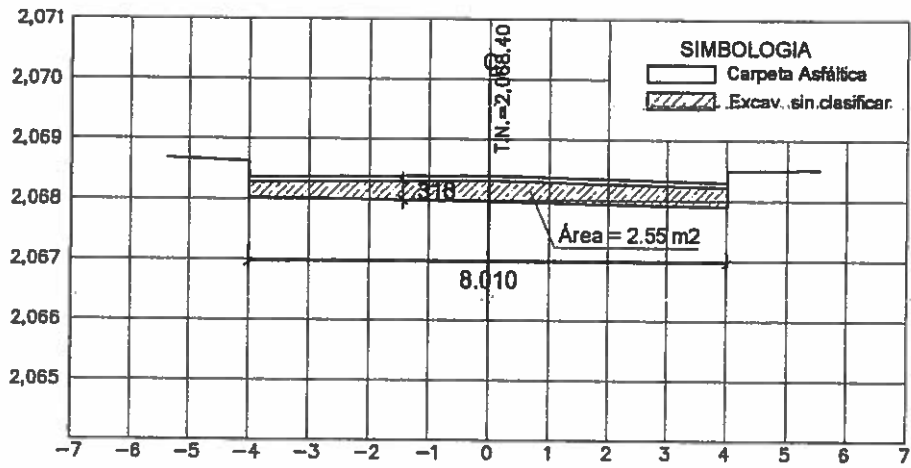
ESTACION 0+030.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



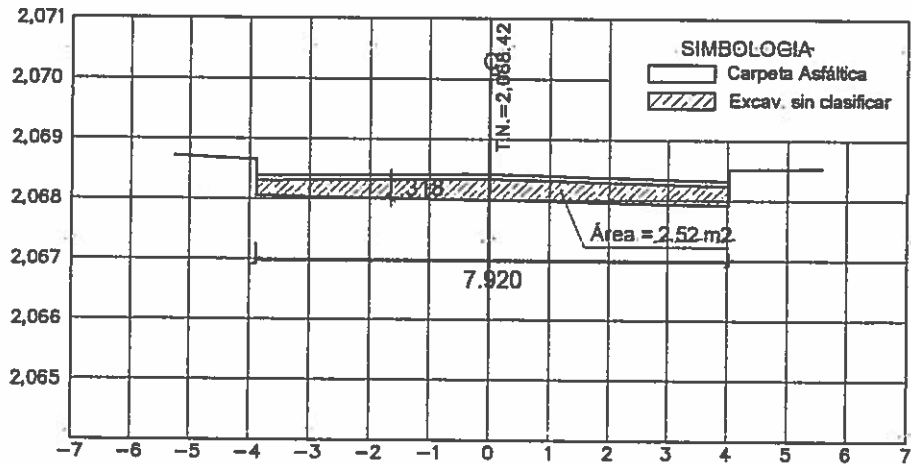
ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



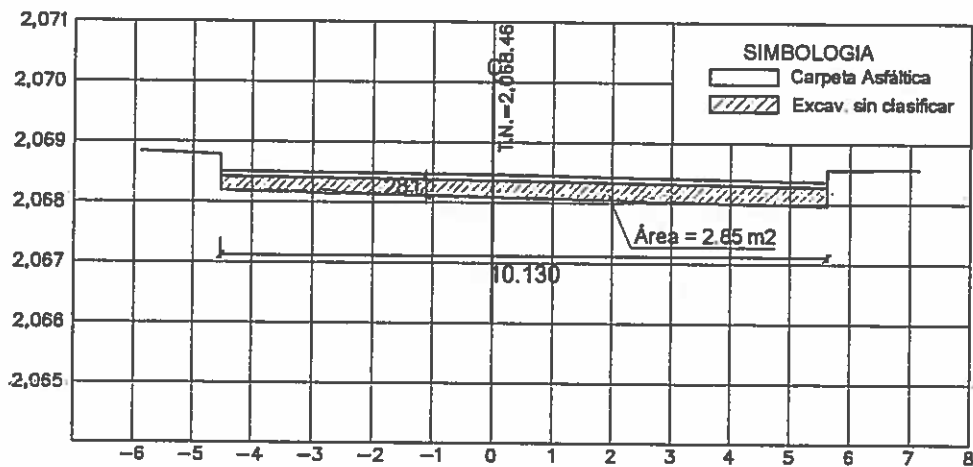
ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

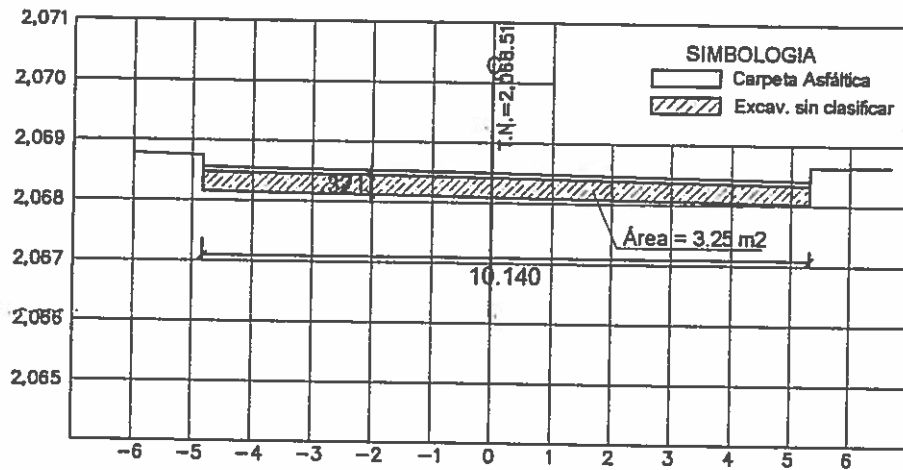


ESTACION 0+064.98
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

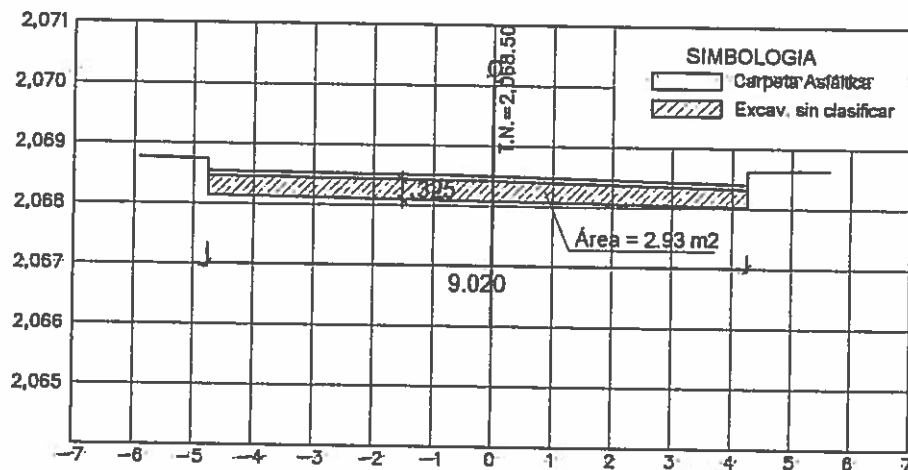


ESTACION 0+068.36
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

4

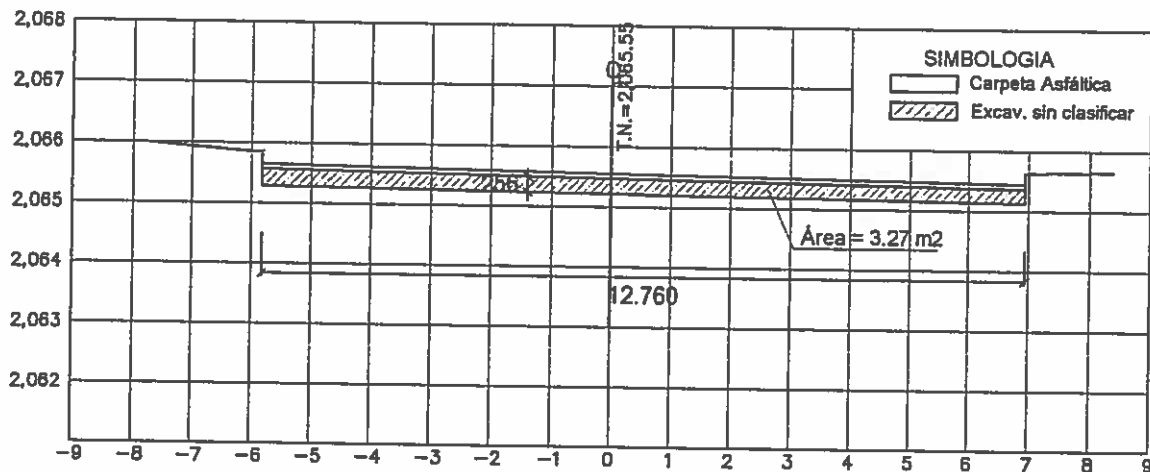


ESTACION 0+080.62
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

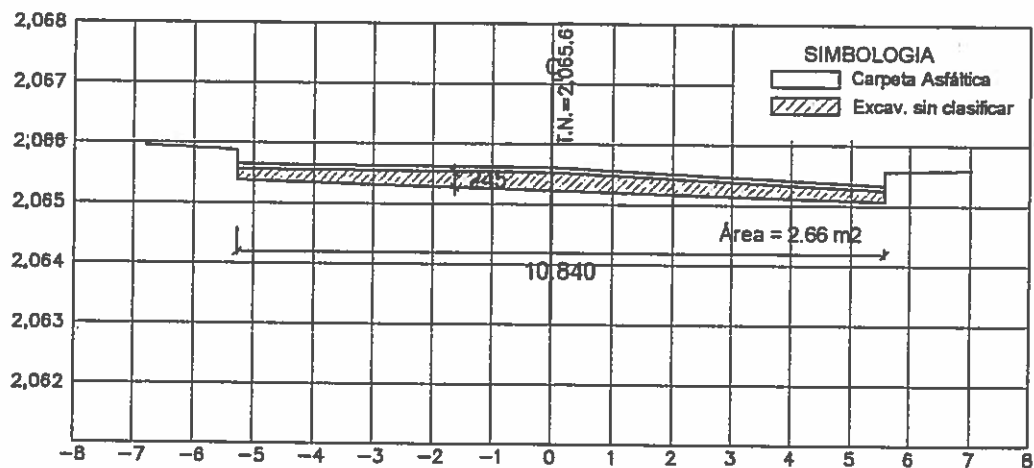


ESTACION 0+081.75
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

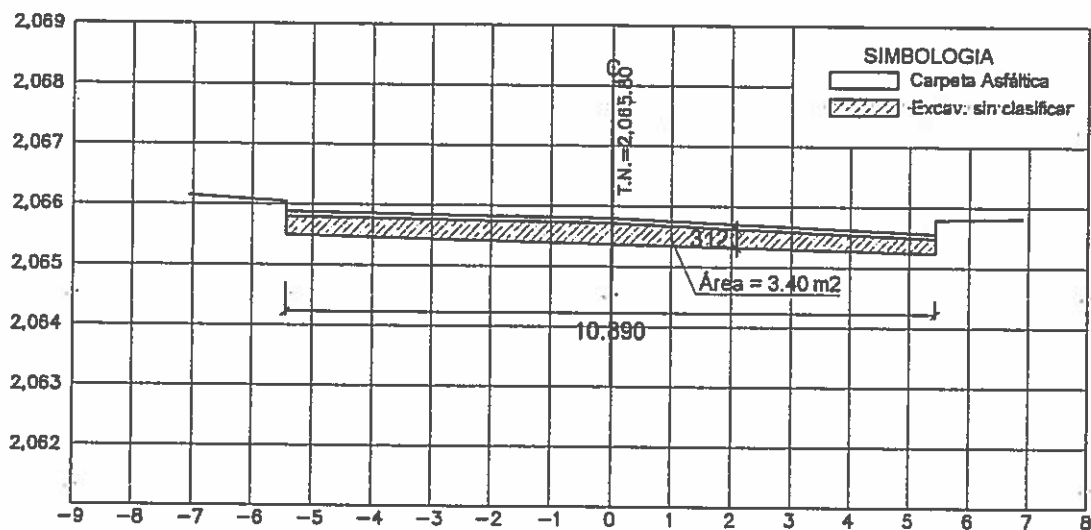
C/ ROCAFUERTE DESDE AV. EMILIANO ORTEGA HASTA MACARA



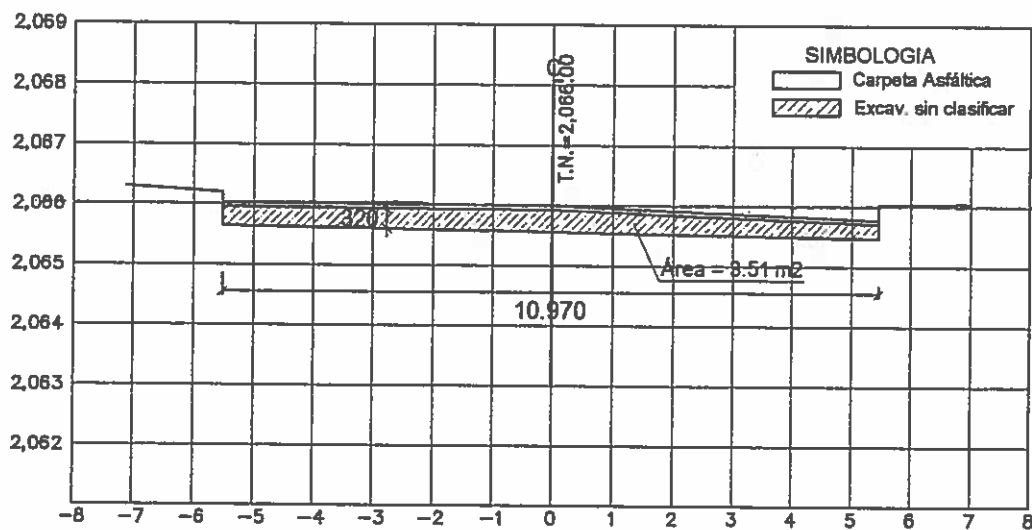
ESTACION 0+008.41
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



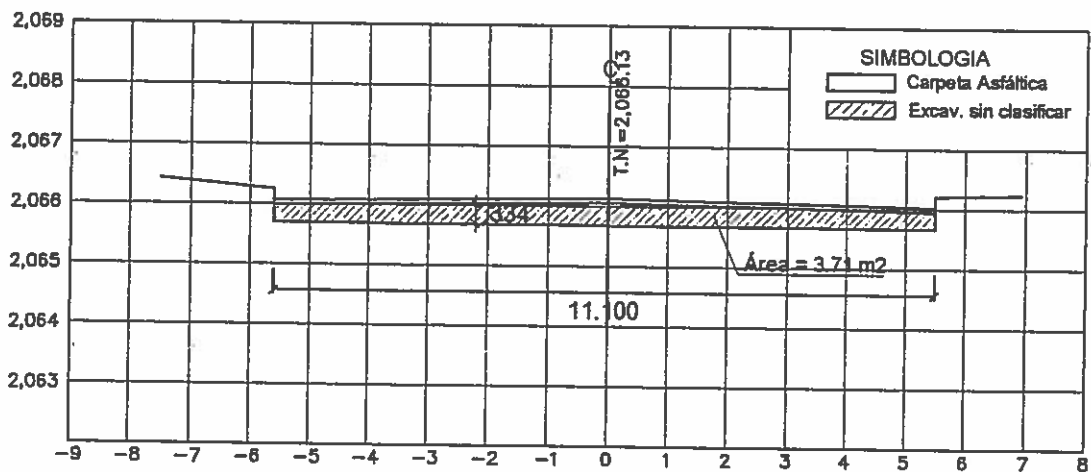
ESTACION 0+012.25
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+020.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

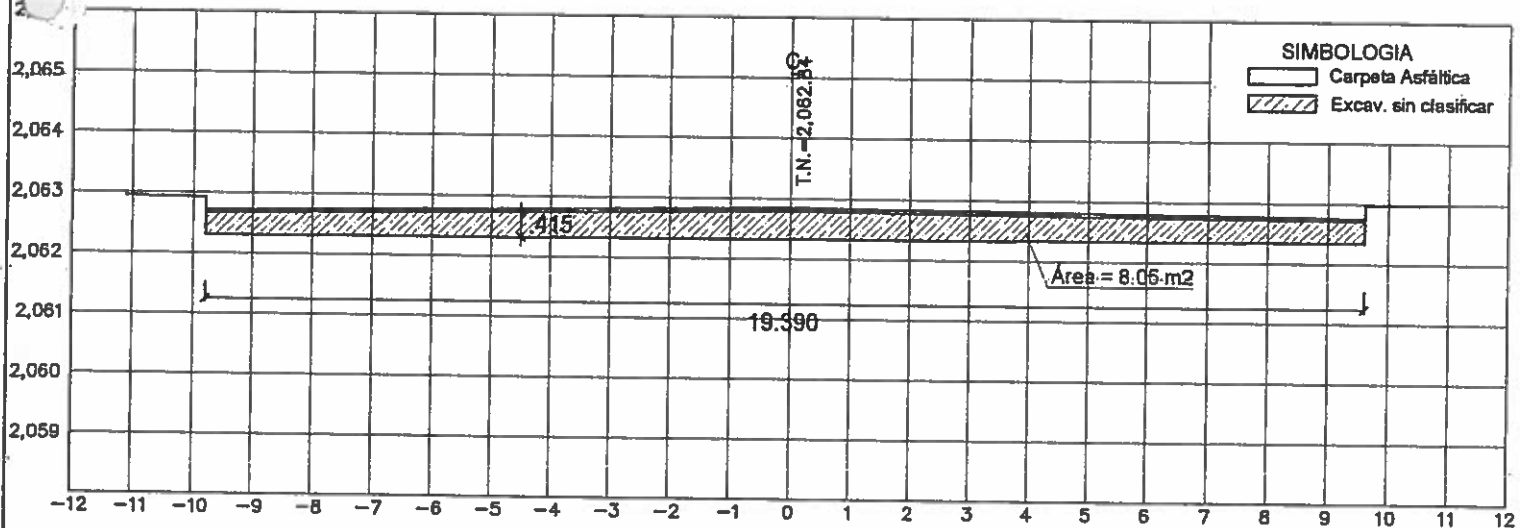


ESTACION 0+030.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

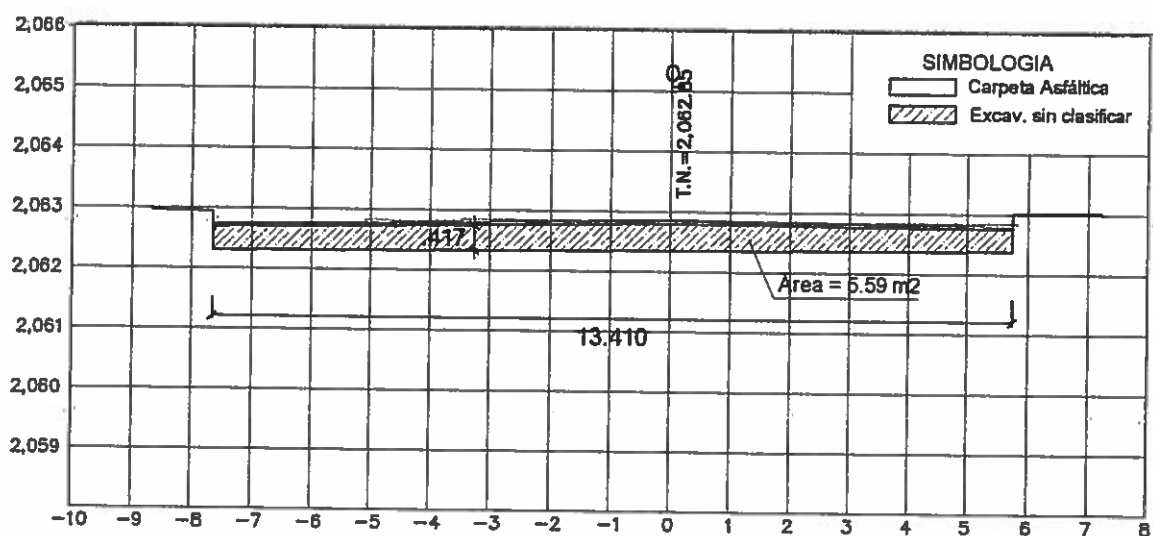


ESTACION 0+037.75
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

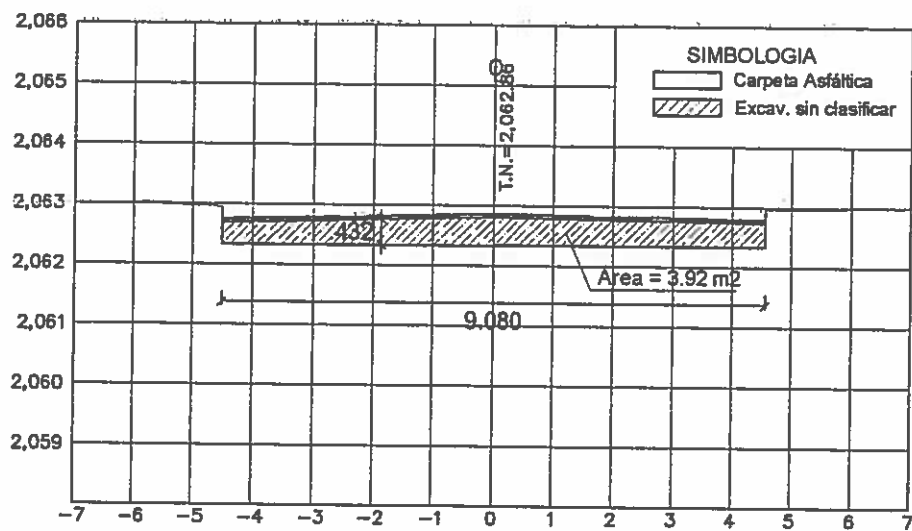
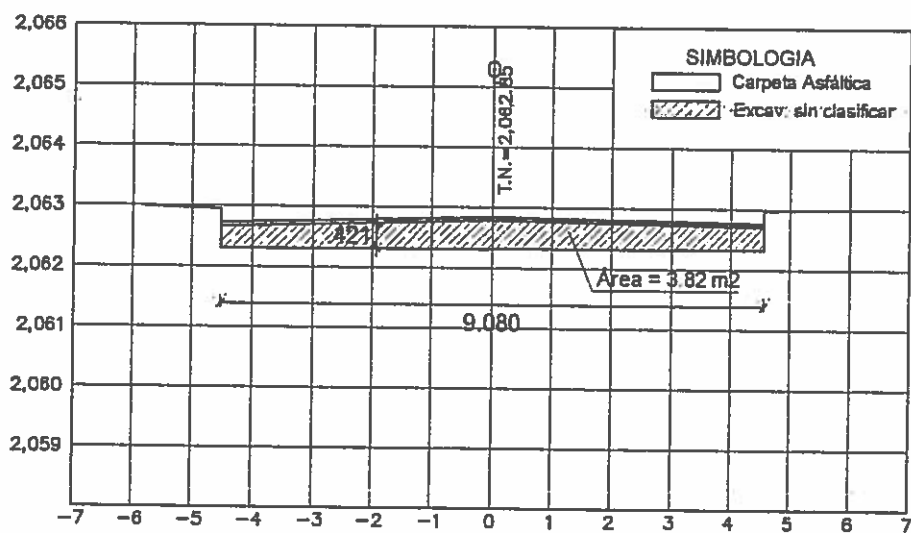
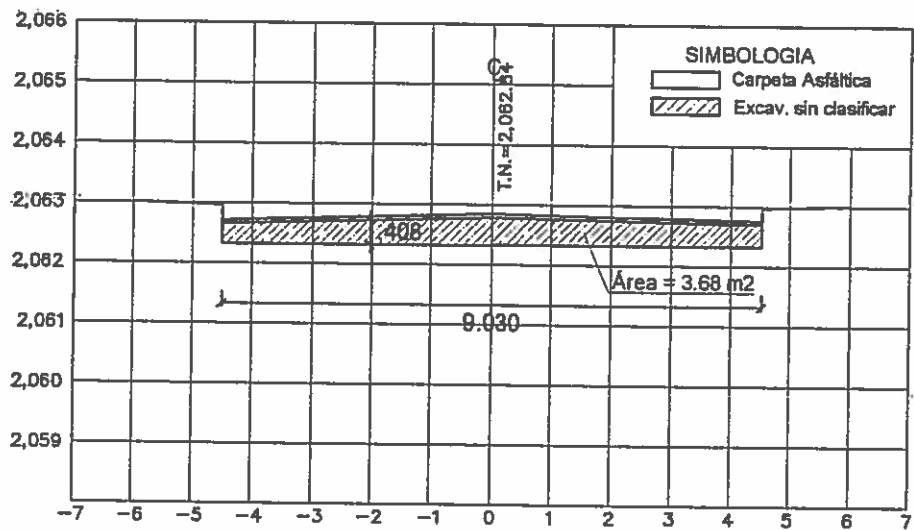
C/ JOSE ANTONIO EGUIGUREN DESDE AV. 24 DE MAYO HASTA BUSTAMANTE

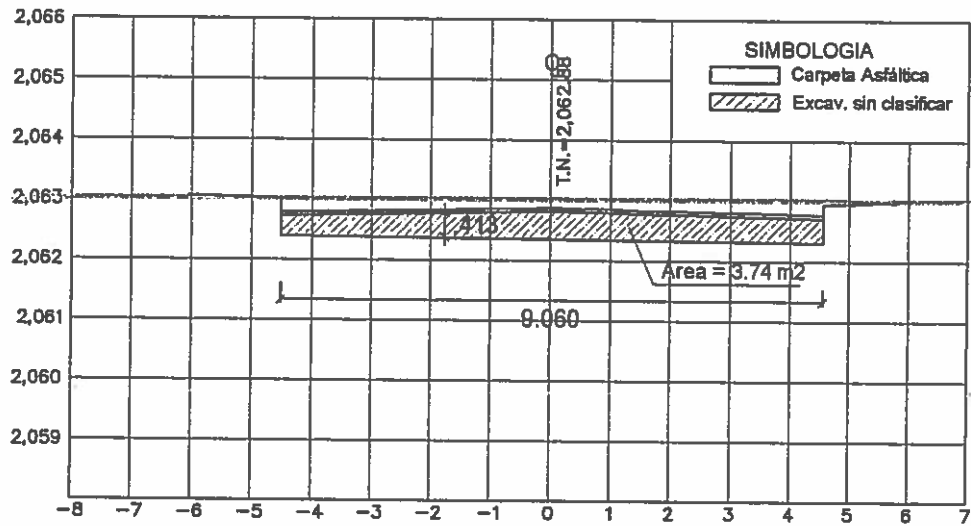


ESTACION 0+003.67
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



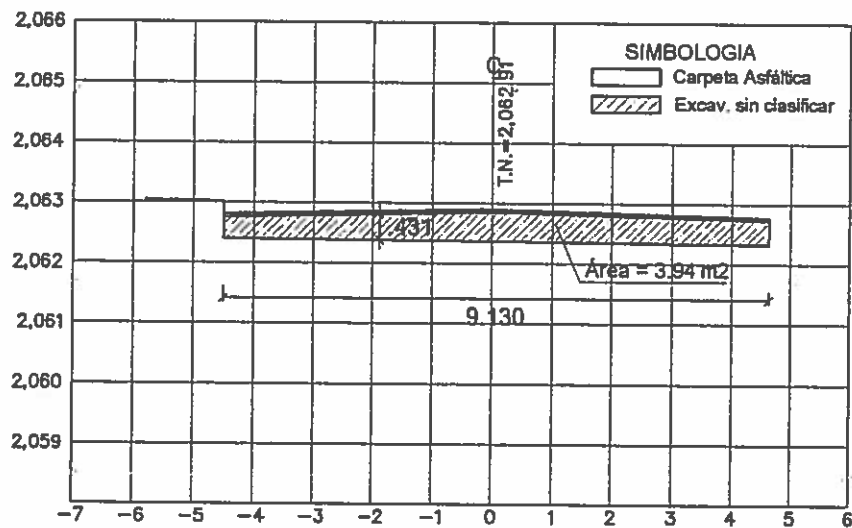
ESTACION 0+005.69
ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100





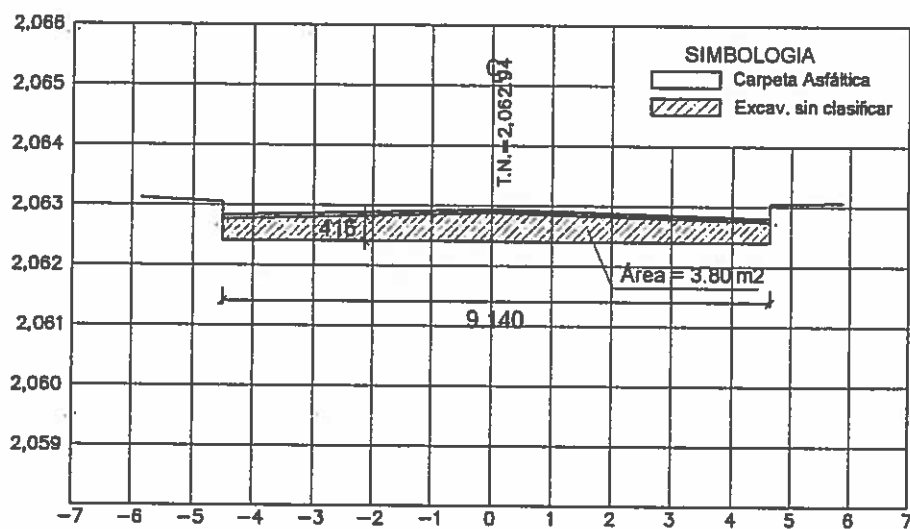
ESTACION 0+040.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



ESTACION 0+050.00

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100



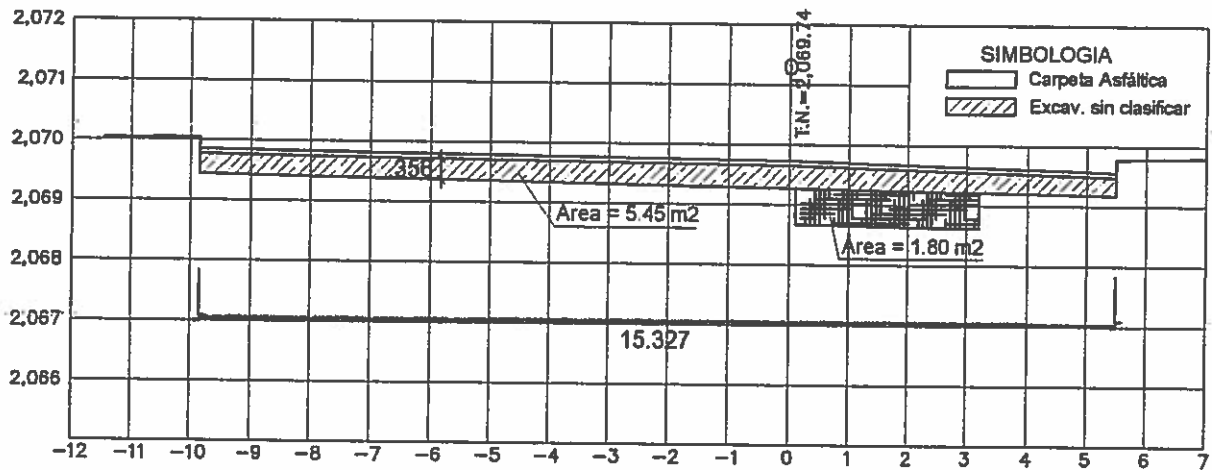
ESTACION 0+057.30

ESCALA HORIZONTAL 1 : 100
ESCALA VERTICAL 1 : 100

4

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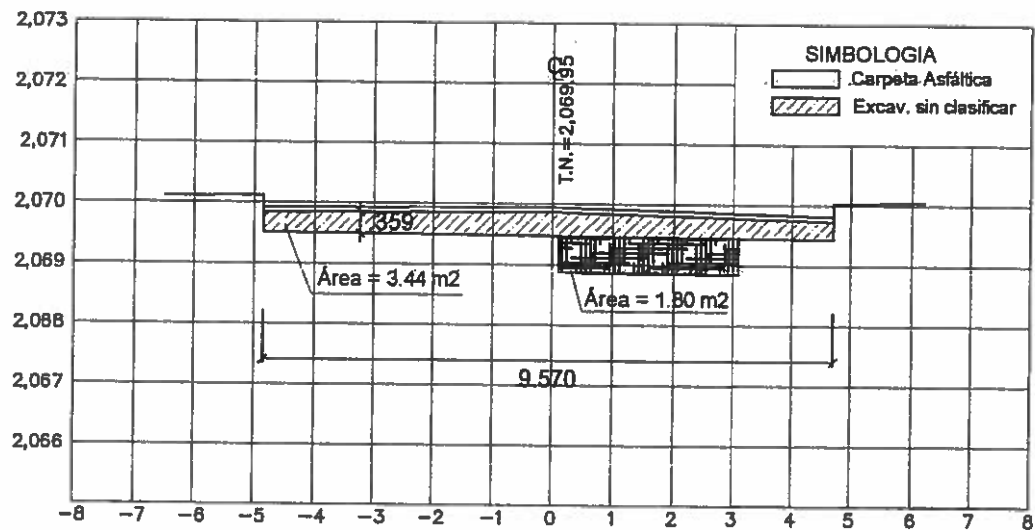
C/ AZUAY DESDE AV. EMILIANO ORTEGA HASTA MACARA



ESTACION 0+010.00

ESCALA HORIZONTAL 1 : 100

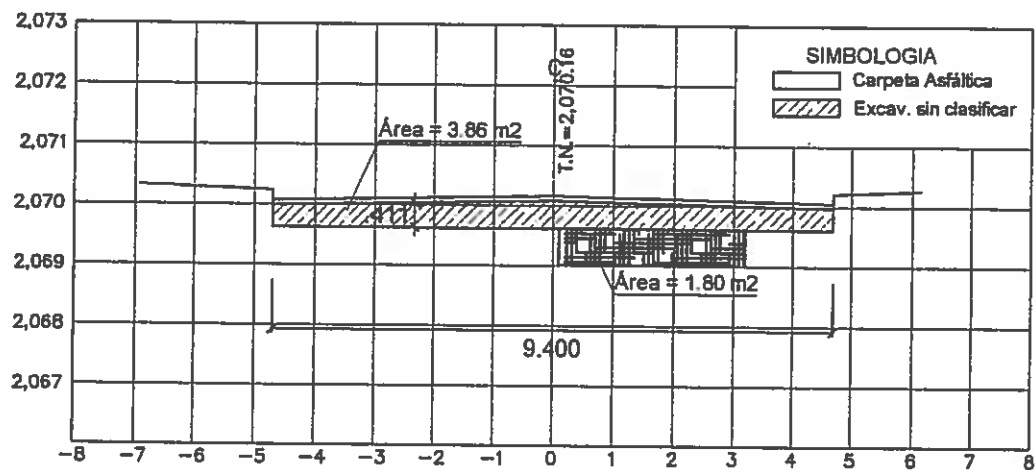
ESCALA VERTICAL 1 : 100



ESTACION 0+020.00

ESCALA HORIZONTAL 1 : 100

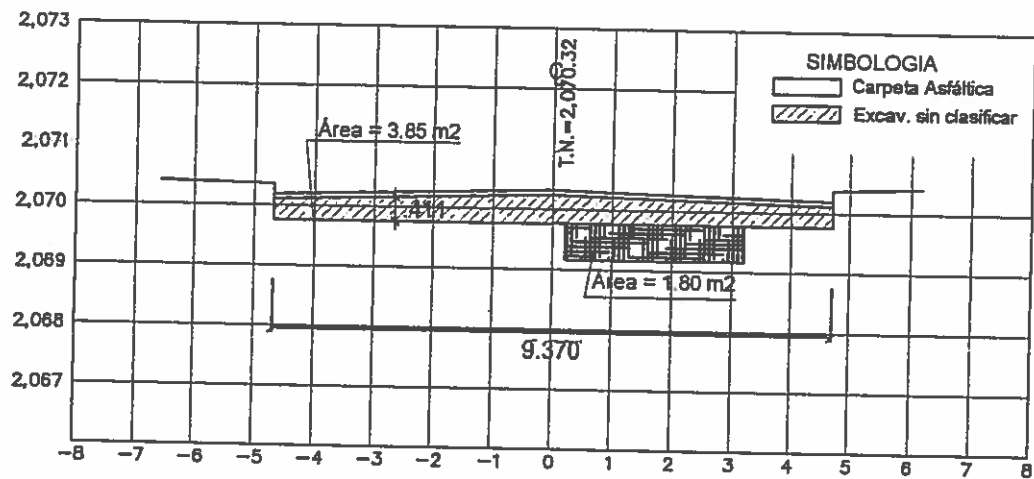
ESCALA VERTICAL 1 : 100



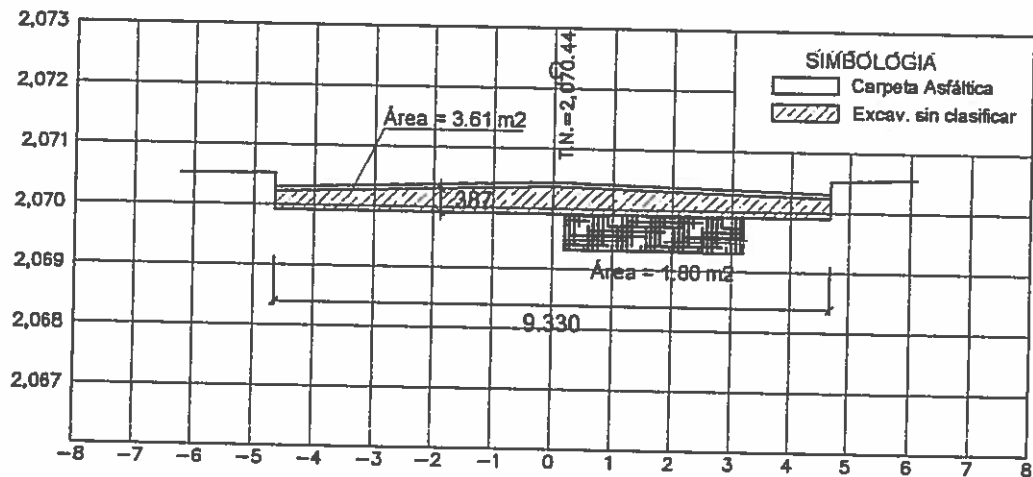
ESTACION 0+030.00

ESCALA HORIZONTAL 1 : 100

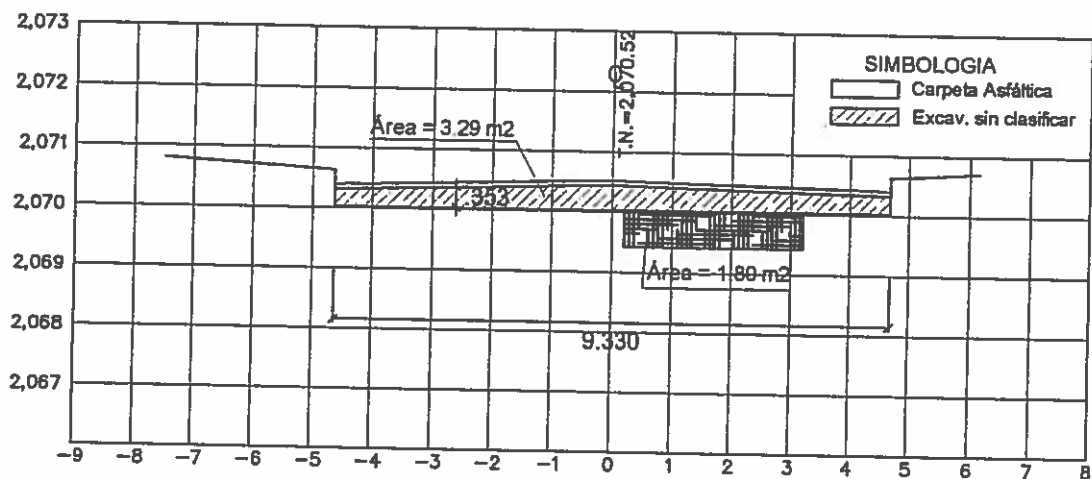
ESCALA VERTICAL 1 : 100



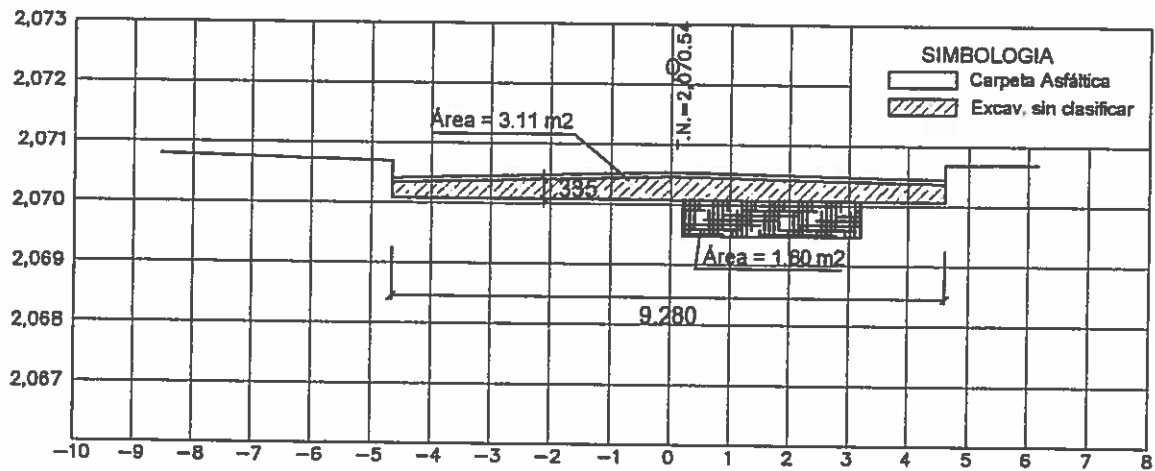
ESTACION 0+040.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



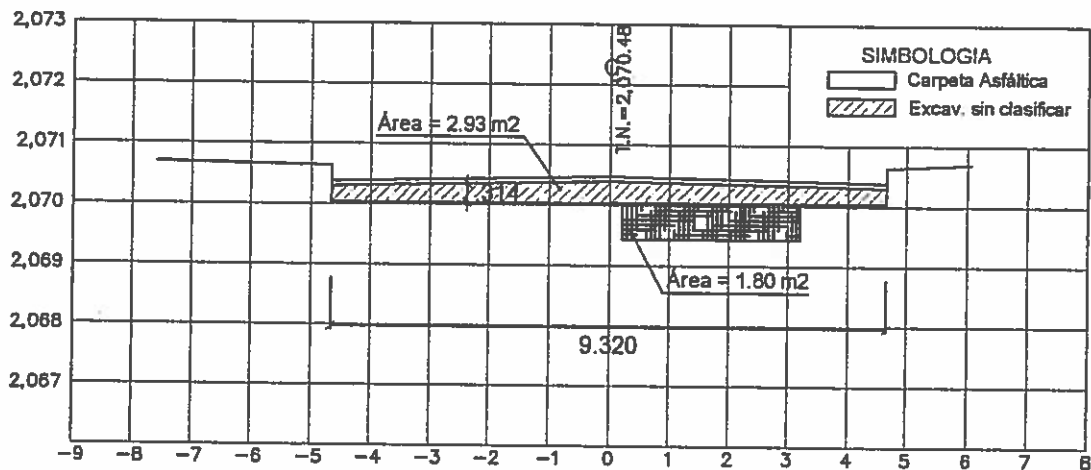
ESTACION 0+050.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



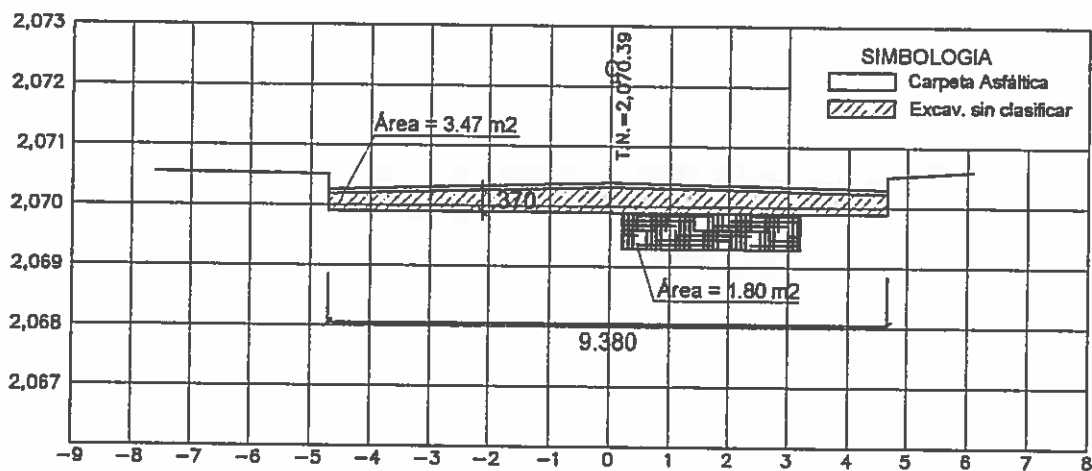
ESTACION 0+060.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



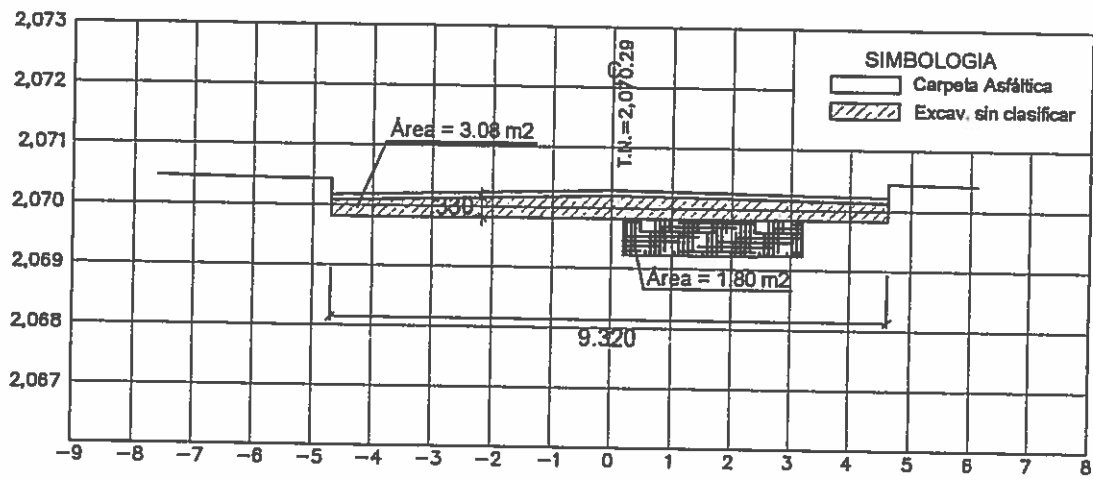
ESTACION 0+070.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



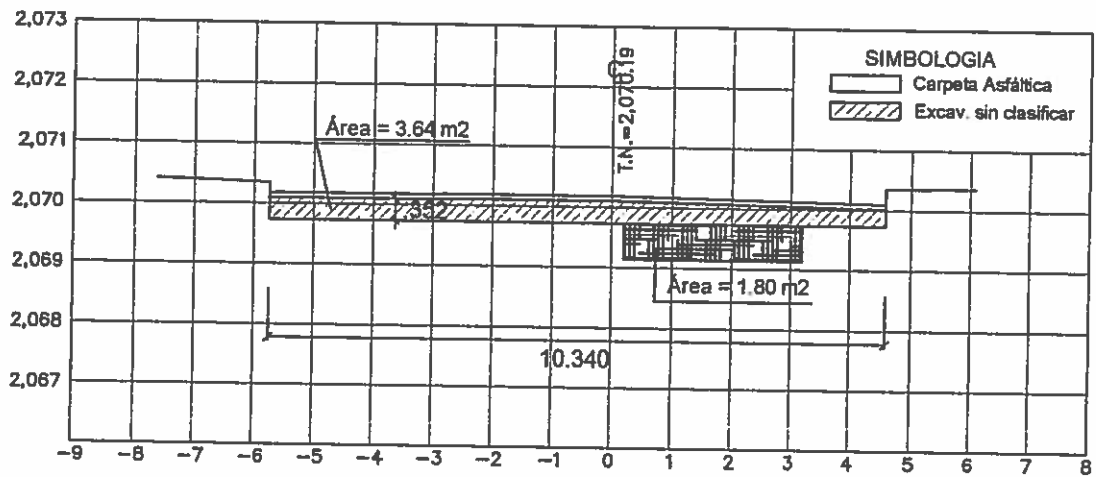
ESTACION 0+080.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



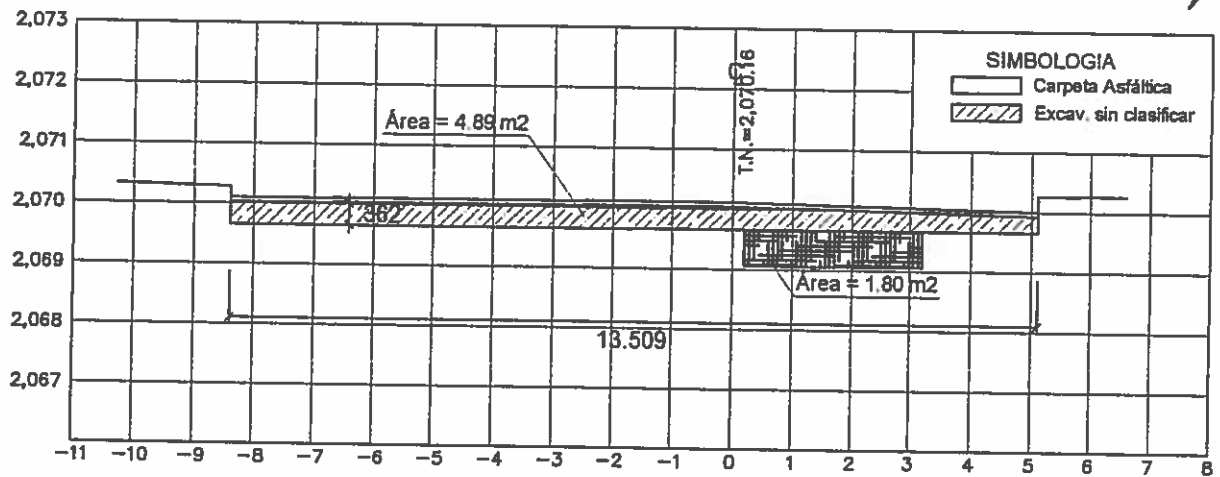
ESTACION 0+090.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+100.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+110.00
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100



ESTACION 0+113.70
 ESCALA HORIZONTAL 1 : 100
 ESCALA VERTICAL 1 : 100

UNIDAD: m³*km

[illegible]

RU006 Transporte de material

AV. EMILIANO ORTEGA DESDE M. HIDALGO HASTA ROCAFUERTE

| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|----------|-----------------|--|--|-------------------|------------------------|----------------------|-------------------|
| INICIO | FIN | | | | | | | |
| 0+110.00 | 0+860.00 | 2,994.32 | 0.95 | 0.50 | 0.45 | 1,347.44 | 1,347.44 | Material Granular |
| TOTAL: | | 750.00 | | | | 1,347.44 m³*km. | | |

AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON

| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|----------|-----------------|--|--|-------------------|------------------------|----------------------|------------------------------|
| INICIO | FIN | | | | | | | |
| 1+107.00 | 1+230.00 | 486.31 | 0.95 | 0.50 | 0.45 | 218.84 | 1,566.28 | Material Granular |
| 1+107.00 | 1+230.00 | 131.28 | 7.30 | 0.50 | 6.80 | 892.70 | 2,458.98 | Pavimento de Hormigón Simple |
| TOTAL: | | 123.00 | | | | 1,111.54 m³*km. | | |

C/ SIN NOMBRE DESDE LOURDES HASTA AV. EMILIANO ORTEGA

| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|----------|-----------------|--|--|-------------------|---------------------|----------------------|-------------------|
| INICIO | FIN | | | | | | | |
| 0+000.00 | 0+046.67 | 108.88 | 0.95 | 0.50 | 0.45 | 49.00 | 2,507.98 | Material Granular |
| TOTAL: | | 46.67 | | | | 49.00 m³*km. | | |

C/ ZONA DE PARQUEADERO ESTADIO DESDE LOURDES HASTA AV. EMILIANO ORTEGA

| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|----------|-----------------|--|--|-------------------|----------------------|----------------------|-------------------|
| INICIO | FIN | | | | | | | |
| 0+000.00 | 0+152.80 | 850.77 | 0.95 | 0.50 | 0.45 | 382.85 | 2,890.83 | Material Granular |
| TOTAL: | | 152.80 | | | | 382.85 m³*km. | | |

C/ MACARA DESDE ROCAFUERTE HASTA MIGUEL RIOFRIO

| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|----------|-----------------|--|--|-------------------|----------------------|----------------------|-------------------|
| INICIO | FIN | | | | | | | |
| 0+005.50 | 0+116.26 | 358.80 | 0.95 | 0.50 | 0.45 | 161.46 | 3,052.29 | Material Granular |
| TOTAL: | | 110.76 | | | | 161.46 m³*km. | | |

C/ MACARA DESDE MIGUEL RIOFRIO HASTA AZUAY

| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|----------|-----------------|--|--|-------------------|----------------------|----------------------|-------------------|
| INICIO | FIN | | | | | | | |
| 0+125.57 | 0+260.00 | 487.45 | 0.95 | 0.50 | 0.45 | 219.35 | 3,271.64 | Material Granular |
| TOTAL: | | 134.43 | | | | 219.35 m³*km. | | |

AV. 24 DE MAYO ENTRE AV. E. ORTEGA Y J. EGUIGUREN

| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
|---------------|----------|-----------------|--|--|-------------------|----------------------|----------------------|-----------------------|
| INICIO | FIN | | | | | | | |
| 0+020.00 | 0+070.00 | 104.84 | 0.95 | 0.50 | 0.45 | 47.18 | 3,318.82 | Material Granular |
| 0+020.00 | 0+070.00 | 115.33 | 7.30 | 0.50 | 6.80 | 784.24 | 4,103.06 | Pavimento de Hormigón |
| TOTAL: | | 50.00 | | | | 831.42 m³*km. | | |

| C/ LOURDES ENTRE E. ORTEGA Y MACARA | | | | | | | | |
|-------------------------------------|----------|-----------------|--|--|-------------------|----------------|----------------------|-------------------|
| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
| INICIO | FIN | | | | | | | |
| 0+005.65 | 0+200.00 | 961.97 | 0.95 | 0.50 | 0.45 | 432.89 | 4,535.95 | Material Granular |
| TOTAL: | | 194.35 | | | | 432.89 m³*km. | | |

| C/ MIGUEL RIOFRIO DESDE AV. E. ORTEGA HASTA MACARA | | | | | | | | |
|--|----------|-----------------|--|--|-------------------|----------------|----------------------|-------------------|
| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
| INICIO | FIN | | | | | | | |
| 0+008.19 | 0+081.75 | 210.01 | 0.95 | 0.50 | 0.45 | 94.50 | 4,630.45 | Material Granular |
| TOTAL: | | 73.56 | | | | 94.50 m³*km. | | |

| C/ ROCAFUERTE DESDE AV. E. ORTEGA HASTA MACARA | | | | | | | | |
|--|----------|-----------------|--|--|-------------------|----------------|----------------------|-------------------|
| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
| INICIO | FIN | | | | | | | |
| 0+008.41 | 0+037.75 | 97.34 | 0.95 | 0.50 | 0.45 | 43.80 | 4,674.25 | Material Granular |
| TOTAL: | | 29.34 | | | | 43.80 m³*km. | | |

| C/ JOSE ANTONIO EGUIGUREN DESDE AV. 24 DE MAYO HASTA BUSTAMANTE | | | | | | | | |
|---|----------|-----------------|--|--|-------------------|----------------|----------------------|-------------------|
| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
| INICIO | FIN | | | | | | | |
| 0+003.67 | 0+057.30 | 213.82 | 0.95 | 0.50 | 0.45 | 96.22 | 4,770.47 | Material Granular |
| TOTAL: | | 53.63 | | | | 96.22 m³*km. | | |

| C/ AZUAY DESDE AV. EMILLANO ORTEGA HASTA MACARA | | | | | | | | |
|---|----------|-----------------|--|--|-------------------|----------------|----------------------|-------------------|
| ABSCISAS | | VOLUMEN (m3) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | V*D (m3*km) | VOLUMEN ACUMULADO | OBSERVACIONES |
| INICIO | FIN | | | | | | | |
| 0+010.00 | 0+113.70 | 570.84 | 0.95 | 0.50 | 0.45 | 256.88 | 5,027.35 | Material Granular |
| TOTAL: | | 103.70 | | | | 256.88 m³*km. | | |

| | | | | | | | | |
|----------------------------------|--|--|--|--|--|-----------------|--|--|
| TOTAL DE TRANSPORTE DE MATERIAL: | | | | | | 5,027.35 m³*km. | | |
|----------------------------------|--|--|--|--|--|-----------------|--|--|

Nota: Los volúmenes pueden ser comprobados de los rubros No.401 y No. 402 de la presente planilla
Se descuenta 500m en todas las distancias, de acuerdo a lo descrito en la especificación técnica Transporte de material (para los rubros RU006, RU023)

4

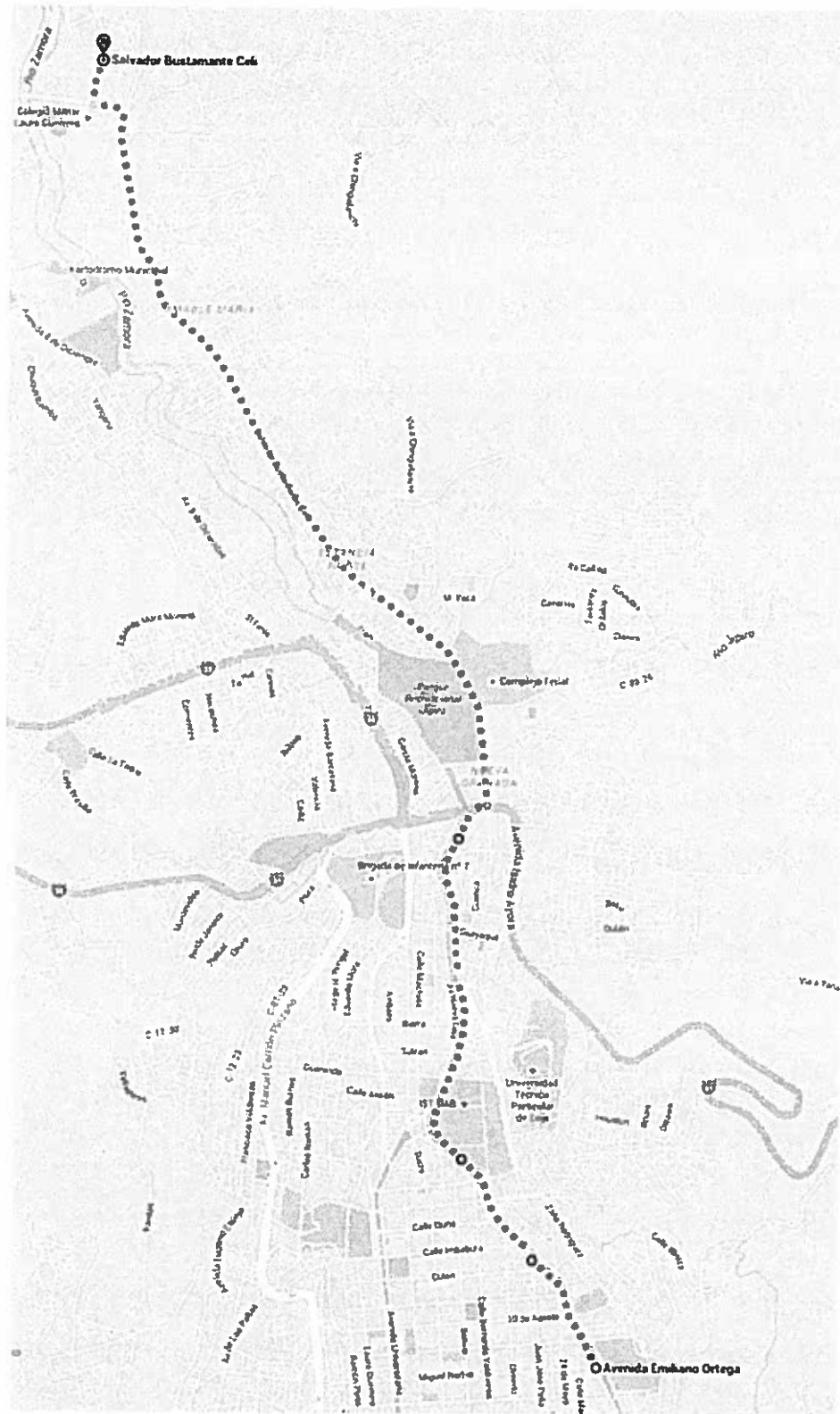
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RUTA DE RECORRIDO DE VOLQUETAS HACIA EL PARQUE INDUSTRIAL LOJA

CENTRO DE GRAVEDAD DEL PROYECTO: AV. EMILIANO ORTEGA Y MIGUEL RIOFRIO

CORDENADAS: ESTE: 700193.7605 NORTE: 9557773.0809

DISTANCIA DE RECORRIDO: 7.30 Km

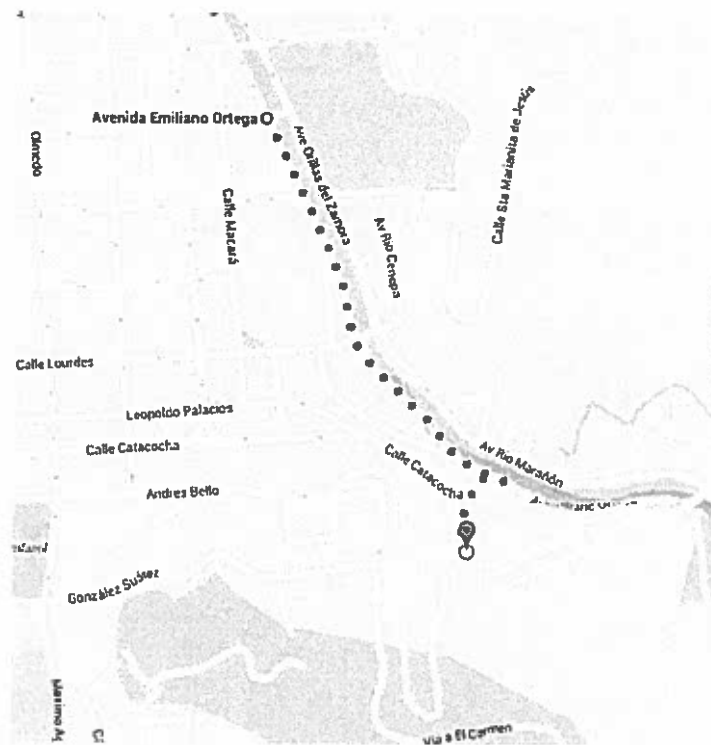


RUTA DE RECORRIDO DE VOLQUETAS HACIA CRIBA

CENTRO DE GRAVEDAD DEL PROYECTO: AV. EMILIANO ORTEGA Y MIGUEL RIOFRIO

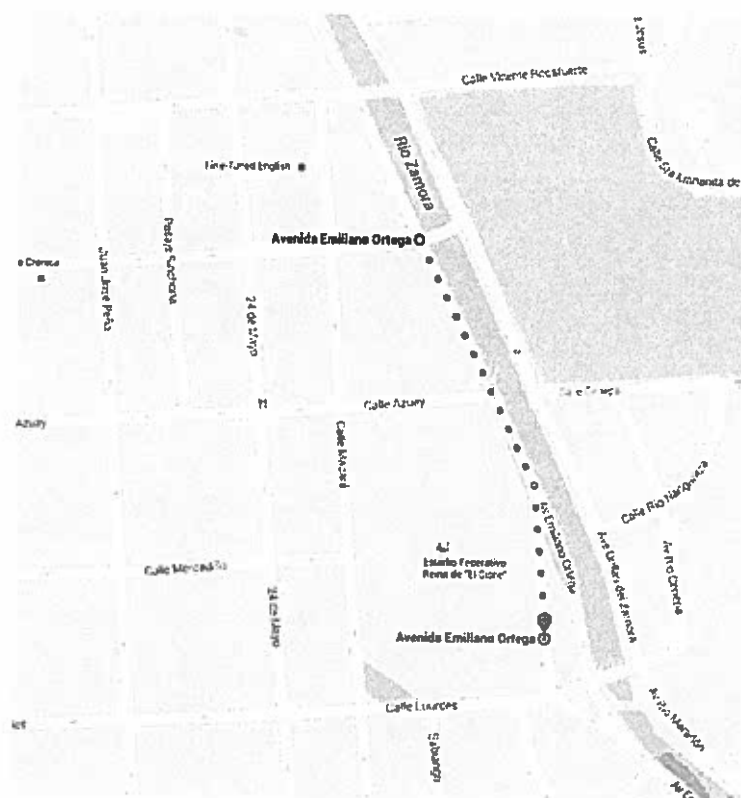
CORDENADAS: ESTE: 700193.7605 NORTE: 9557773.0809

DISTANCIA DE RECORRIDO: 0.95 Km



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DISTANCIA DE RECORRIDO: 0.35 Km



4



CONSORCIO
CASA 2000
DEL DESARROLLO URBANO

UNIDAD: ml

Nota: Longitudes determinadas en autocad

ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

RU016 Rotura de bordillo

| ABSCISAS | | LONG. TRAMOS | LONG. TOTAL | OBSERVACIONES |
|----------|----------|--------------|-------------|---|
| INICIO | FIN | (m) | (m) | |
| 0+110.00 | 0+333.42 | 222.45 | 222.45 | AV. EMILIANO ORTEGA DESDE MATILDE HIDALDO HASTA LOURDES, (ESTE) |
| 0+346.05 | 0+347.75 | 2.65 | 355.81 | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (ESTE) |
| 0+347.75 | 0+350.00 | 2.61 | | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (ESTE) |
| 0+350.00 | 0+696.65 | 347.45 | | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (ESTE) |
| 0+696.65 | 0+699.55 | 3.1 | | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (ESTE) |
| 0+713.00 | 0+715.45 | 3.62 | 112.43 | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (ESTE) |
| 0+715.45 | 0+822.15 | 106.5 | | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (ESTE) |
| 0+822.15 | 0+825.00 | 2.31 | | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (ESTE) |
| 1+142.00 | 1+150.00 | 8.45 | 88.41 | AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON, (ESTE) |
| 1+150.00 | 1+230.00 | 79.96 | | AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON, (ESTE) |
| TOTAL | | | 779.1 | m2 |

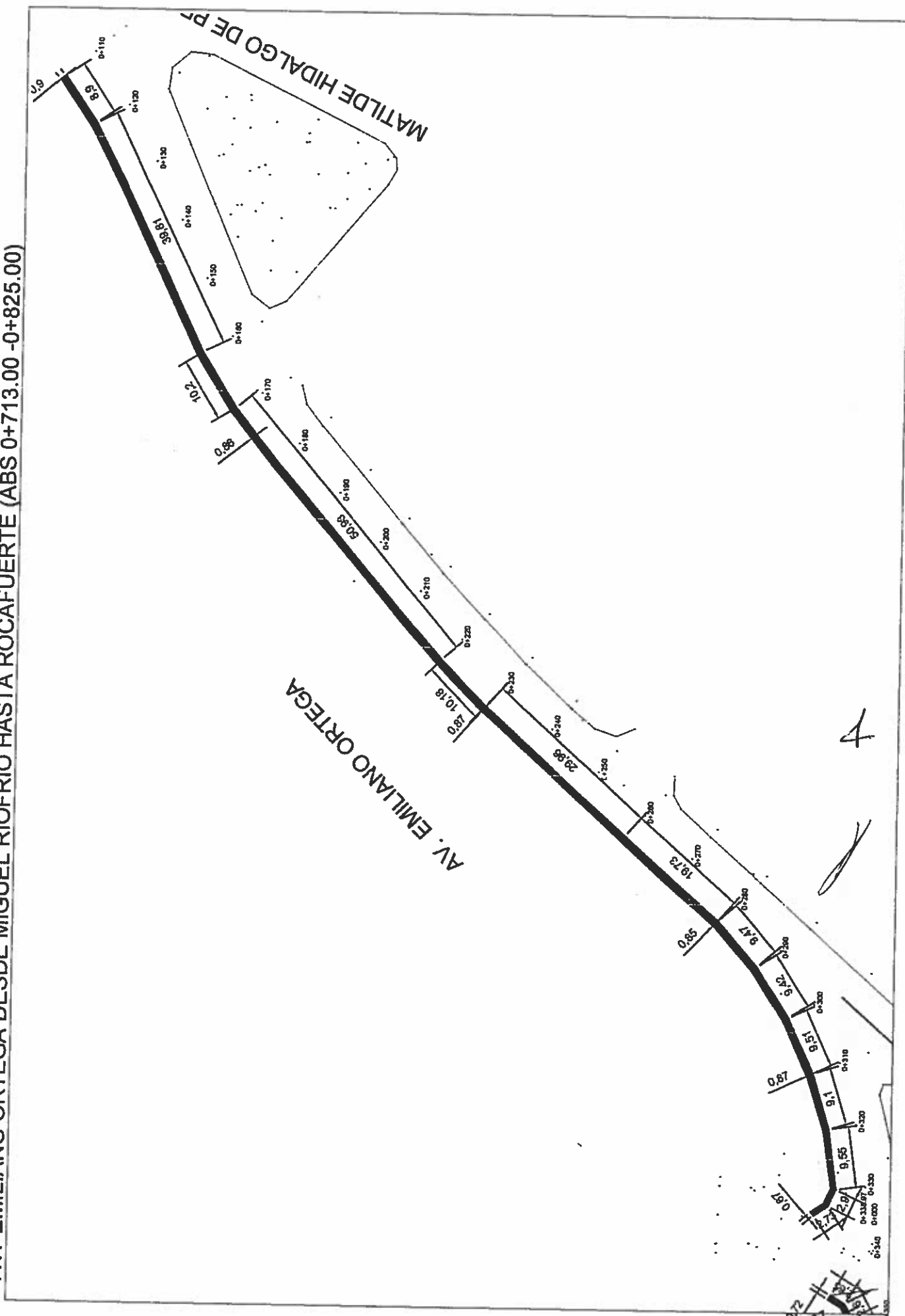
NOTA: Longitudes determinadas en Autocad

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✓

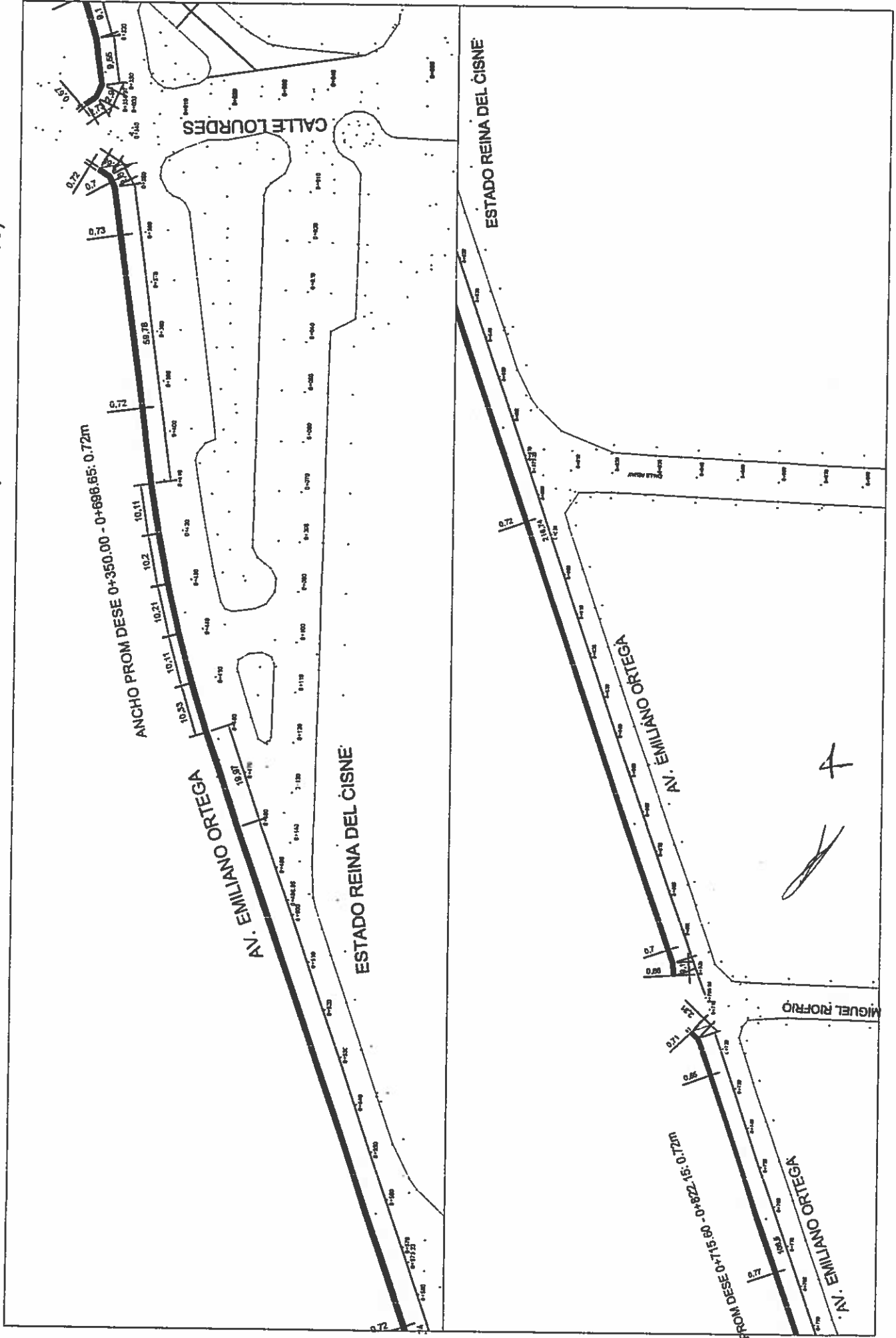
LONGITUDES DE BORDILLOS

AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE (ABS 0+713.00 -0+825.00)



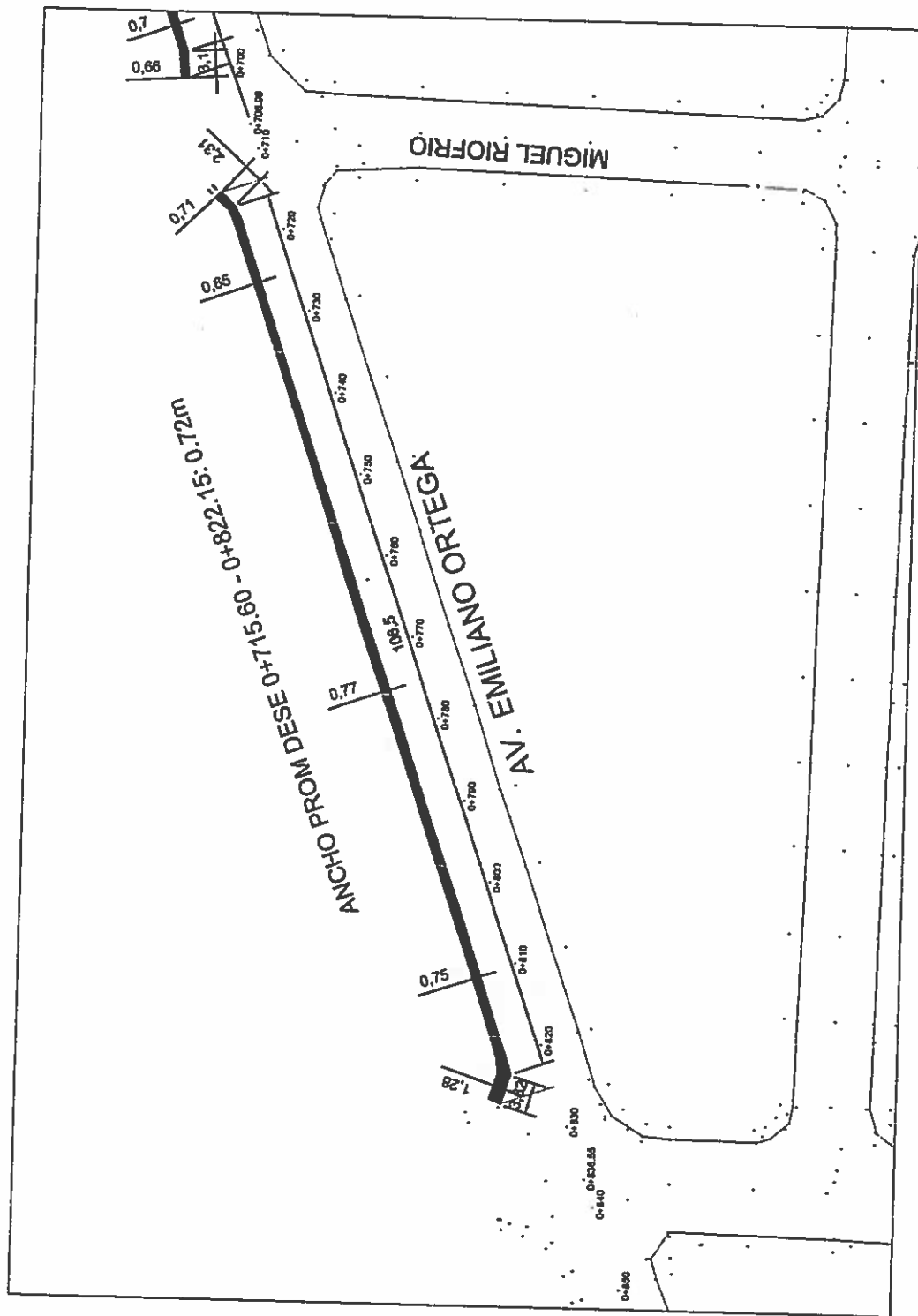
LONGITUDES DE BORDILLOS

AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO (ABS 0+346.05 -0+699.55)



LONGITUDES DE BORDILLOS

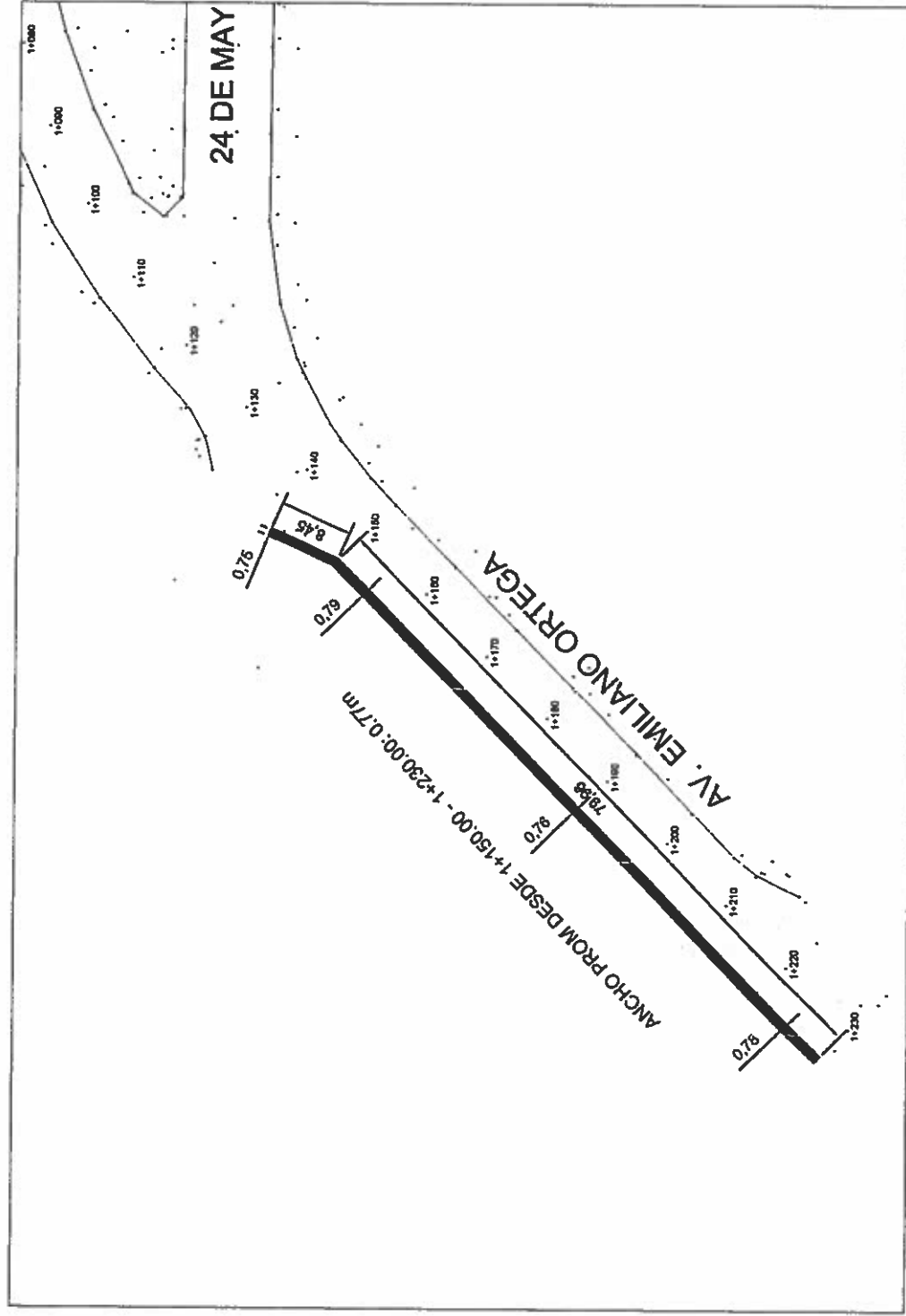
AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE (ABS 0+713.00 -0+825.00)



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LONGITUDES DE BORDILLOS

AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON (ABS 1+142.00 -1+230.00)



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ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

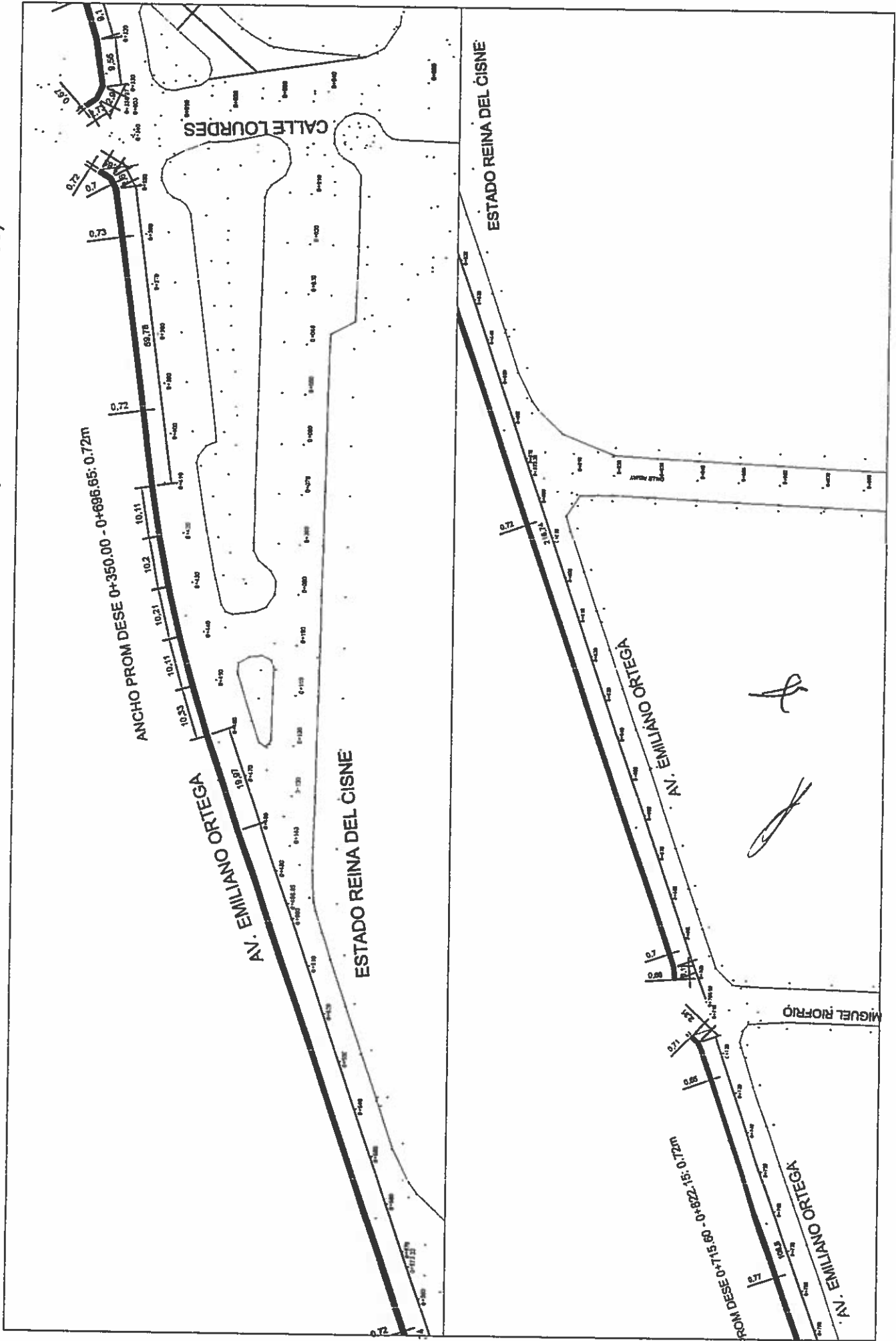
RU021 Rotura de aceras, gradas, cunetas

| ABSCISAS | | ANCHO PROM. | LONG. TRAMOS | AREA TRAMOS | ÁREA | OBSERVACIONES |
|----------|----------|-------------|--------------|-------------|-------|---|
| INICIO | FIN | (m) | (m) | m2 | (m2) | |
| 0+110.00 | 0+333.42 | 0.84 | 222.45 | 186.12 | 186.1 | AV. EMILIANO ORTEGA DESDE MATILDE HIDALDO HASTA LOURDES, (ESTE) |
| 0+346.05 | 0+347.75 | 0.72 | 2.65 | 1.91 | 255.9 | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (ESTE) |
| 0+347.75 | 0+350.00 | 0.70 | 2.61 | 1.83 | | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (ESTE) |
| 0+350.00 | 0+696.65 | 0.72 | 347.45 | 250.16 | | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (ESTE) |
| 0+696.65 | 0+699.55 | 0.66 | 3.10 | 2.05 | | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (ESTE) |
| 0+713.00 | 0+715.45 | 1.28 | 3.62 | 4.63 | 83.0 | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (ESTE) |
| 0+715.45 | 0+822.15 | 0.72 | 106.50 | 76.68 | | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (ESTE) |
| 0+822.15 | 0+825.00 | 0.71 | 2.31 | 1.64 | | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (ESTE) |
| 1+142.00 | 1+150.00 | 0.75 | 8.45 | 6.34 | 67.9 | AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON, (ESTE) |
| 1+150.00 | 1+230.00 | 0.77 | 79.96 | 61.57 | | AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON, (ESTE) |
| | | | | | | |
| TOTAL | | | | | 592.9 | m2 |

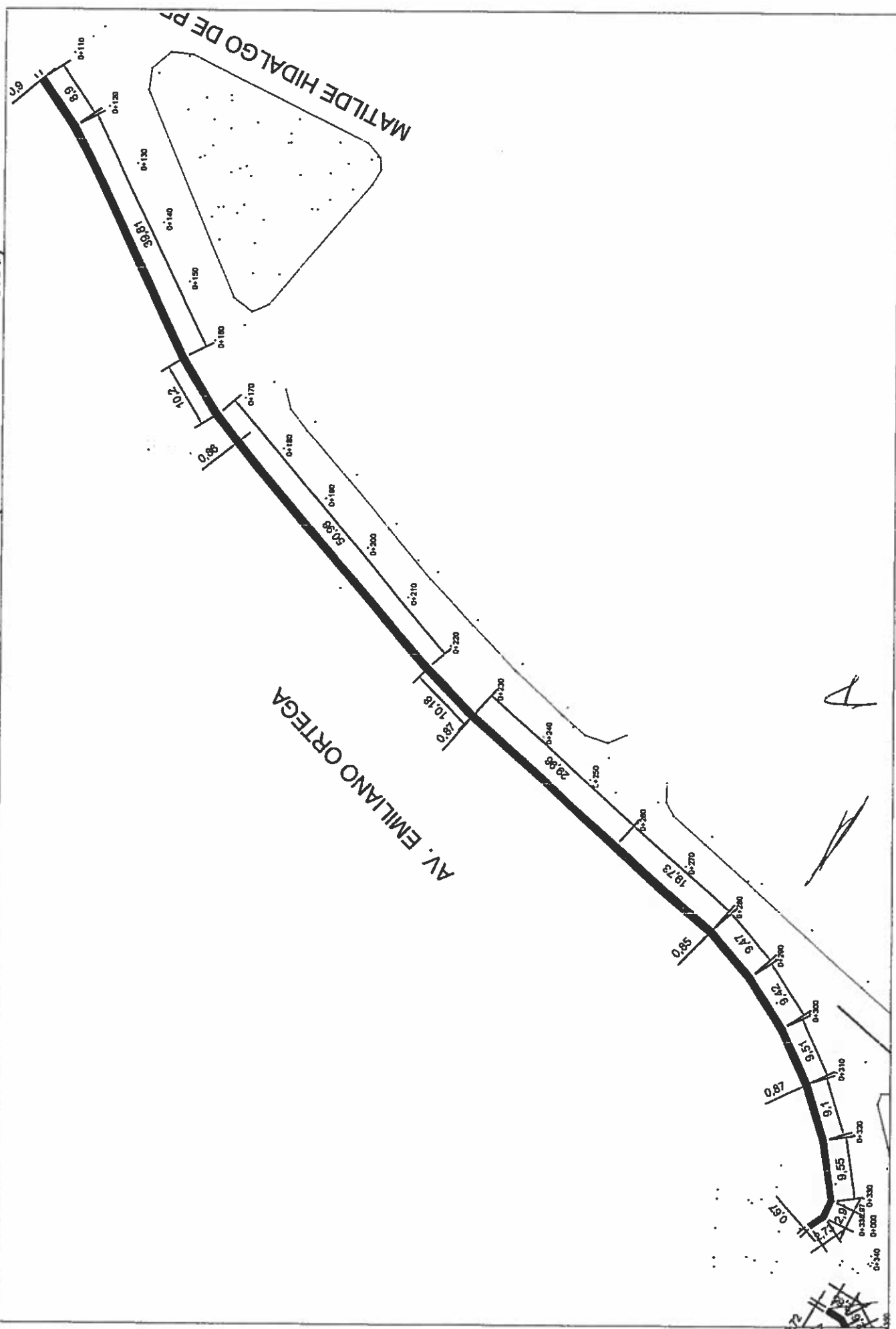
NOTA: Longitudes determinadas en Autocad

AREA DE ACERAS

AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO (ABS 0+346.05 -0+699.55)

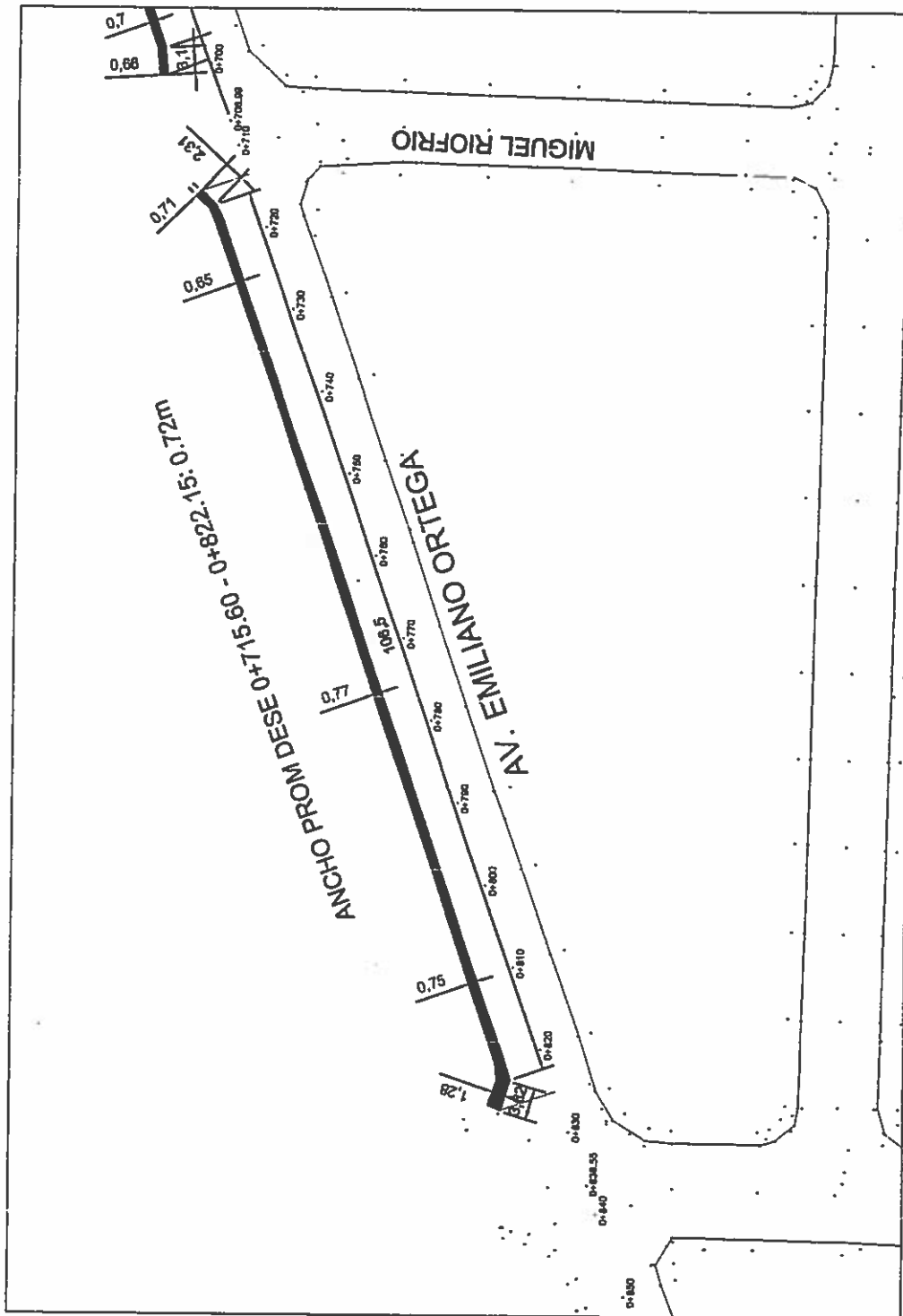


AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE (ABS 0+713.00 -0+825.00)



AREA DE ACERAS

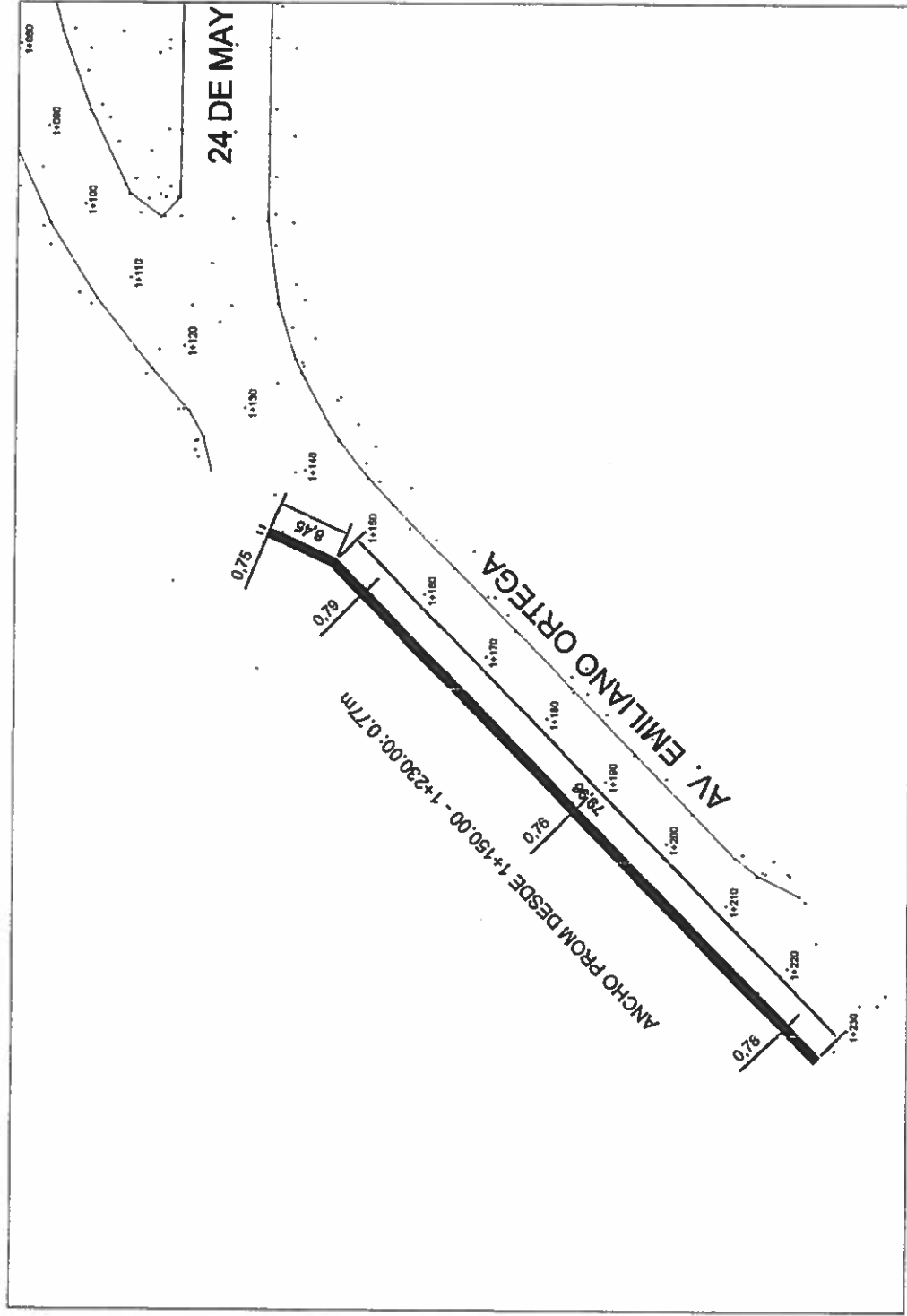
AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE (ABS 0+713.00 -0+825.00)



4

AREA DE ACERAS

AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON (ABS 1+142.00 -1+230.00)



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ONSORCIO PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 420

UNIDAD: m3

| ABSCISAS | | VOLUMEN | OBSERVACIONES |
|--------------|----------|------------------|--------------------------------------|
| DESDE | HASTA | (M3) | |
| 0+110.00 | 1+230.00 | 77.91 | BORDILLO EMILIANO ORTEGA (LADO ESTE) |
| 0+110.00 | 1+230.00 | 59.29 | ACERAS EMILIANO ORTEGA (LADO ESTE) |
| | | | |
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| | | | |
| | | | |
| TOTAL | | 137.20 M3 | |

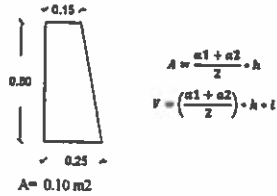
ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

RU022 Cargada de material con maquinaria

| ABSCISAS | | LONGITUD (m) | DIMEN. BORDILLO (m) | | | VOLUMEN (m ³) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|----------|-----------------|------------------------|------|------|------------------------------|----------------------|--|
| INICIO | FIN | | (a1) | (b2) | (h) | | | |
| 0+110.00 | 0+339.00 | 222.50 | 0.15 | 0.25 | 0.50 | 22.25 | 22.25 | AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA LOURDES, (LADO ESTE) |
| 0+346.00 | 0+700.00 | 355.77 | 0.15 | 0.25 | 0.50 | 35.58 | 57.83 | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (LADO ESTE) |
| 0+713.00 | 0+825.00 | 112.44 | 0.15 | 0.25 | 0.50 | 11.24 | 69.07 | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (LADO ESTE) |
| 1+142.00 | 1+230.00 | 88.41 | 0.15 | 0.25 | 0.50 | 8.84 | 77.91 | AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON, (LADO ESTE) |
| TOTAL: | | | | | | 77.91 | m ³ | |

Nota: Longitudes tomadas del rubro No. 414 de la presente planilla

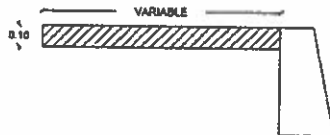
SECCION DE BORDILLO DERROCADO



| ABSCISAS | | Long. (m) | AREA (m ²) | ESPESOR (m) | VOLUMEN (m ³) | VOLUMEN ACUMULADO | OBSERVACIONES |
|----------|----------|--------------|---------------------------|----------------|------------------------------|----------------------|--|
| INICIO | FIN | | | | | | |
| 0+110.00 | 0+333.42 | 222.45 | 186.12 | 0.10 | 18.61 | 18.61 | AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA LOURDES, (LADO ESTE) |
| 0+346.05 | 0+699.55 | 355.81 | 255.95 | 0.10 | 25.59 | 44.20 | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (LADO ESTE) |
| 0+713.00 | 0+825.00 | 112.43 | 82.95 | 0.10 | 8.30 | 52.50 | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (LADO ESTE) |
| 1+142.00 | 1+230.00 | 88.41 | 67.91 | 0.10 | 6.79 | 59.29 | AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON, (LADO ESTE) |
| TOTAL | | | | | 59.29 | m ³ | |

Nota: Areas tomadas del rubro No. 419 de la presente planilla

SECCION DE ACERA DERROCADO





MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 421

CAPITULO:
SUBCAPITULO:
RU023 Transporte de material

REGENERACIÓN URBANA
ACERAS

UNIDAD: m³*Km

| ABSCISAS | | VOL. *DIS. (m ³ *km) | OBSERVACIONES |
|----------|----------|------------------------------------|--------------------------------------|
| DESDE | HASTA | | |
| 0+110.00 | 1+230.00 | 529.80 | BORDILLO EMILIANO ORTEGA (LADO ESTE) |
| 0+110.00 | 1+230.00 | 403.17 | ACERAS EMILIANO ORTEGA (LADO ESTE) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| TOTAL = | | 932.97 | M3*Km |

ING. CLAY SANMARTÍN
SUPERINTENDENTE
CONSORCIO LOJA 2015

ING. JOSÉ ÁNGEL BLANCO
FISCALIZACIÓN
INCA S.A.

RU023 Transporte de material

| ABSCISAS | | VOLUMEN (m ³) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | VOLUMEN (m ³) | VOLUMEN ACUMULADO (m ³) | OBSERVACIONES |
|----------|----------|------------------------------|--|--|-------------------|------------------------------|---|--|
| INICIO | FIN | | | | | | | |
| 0+110.00 | 0+339.00 | 22.250 | 7.30 | 0.50 | 6.80 | 151.30 | 151.30 | AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA LOURDES, (LADO ESTE) |
| 0+346.00 | 0+700.00 | 35.577 | 7.30 | 0.50 | 6.80 | 241.92 | 393.22 | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (LADO ESTE) |
| 0+713.00 | 0+825.00 | 11.244 | 7.30 | 0.50 | 6.80 | 76.46 | 469.68 | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (LADO ESTE) |
| 1+142.00 | 1+230.00 | 8.841 | 7.30 | 0.50 | 6.80 | 60.12 | 529.80 | AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON, (LADO ESTE) |
| TOTAL: | | | | | | 529.80 | m ³ *Km | |

NOTA: Volúmenes tomados del rubro No. 420 de la presente planilla
Se descuenta 500m en todas las distancias, de acuerdo a lo descrito en la especificación técnica
Transporte de material (para los rubros RU006, RU023)

| ABSCISAS | | VOLUMEN (m ³) | DISTANCIA DESDE CENTRO DE GRAVEDAD (km) | DISTANCIA NO CONSIDERADA SEGUN ESPECIFICACION (km) | DISTANCIA (km) | VOLUMEN (m ³) | VOLUMEN ACUMULADO (m ³) | OBSERVACIONES |
|----------|----------|------------------------------|--|--|-------------------|------------------------------|---|--|
| INICIO | FIN | | | | | | | |
| 0+110.00 | 0+333.42 | 18.610 | 7.30 | 0.50 | 6.80 | 126.55 | 656.35 | AV. EMILIANO ORTEGA DESDE MATILDE HIDALGO HASTA LOURDES, (LADO ESTE) |
| 0+346.05 | 0+699.55 | 25.590 | 7.30 | 0.50 | 6.80 | 174.01 | 830.36 | AV. EMILIANO ORTEGA DESDE LOURDES HASTA MIGUEL RIOFRIO, (LADO ESTE) |
| 0+713.00 | 0+825.00 | 8.300 | 7.30 | 0.50 | 6.80 | 56.44 | 886.80 | AV. EMILIANO ORTEGA DESDE MIGUEL RIOFRIO HASTA ROCAFUERTE, (LADO ESTE) |
| 1+142.00 | 1+230.00 | 6.790 | 7.30 | 0.50 | 6.80 | 46.17 | 932.97 | AV. EMILIANO ORTEGA DESDE 24 DE MAYO HASTA COLON, (LADO ESTE) |
| TOTAL: | | | | | | 403.17 | m ³ *Km | |

NOTA: Volúmenes tomados del rubro No. 420 de la presente planilla
Se descuenta 500m en todas las distancias, de acuerdo a lo descrito en la especificación técnica
Transporte de material (para los rubros RU006, RU023)

f

f



MUNICIPIO DE LOJA

**PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO
SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"**

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 442

CAPITULO:
SUBCAPITULO:


REGENERACIÓN URBANA
MOBILIARIO URBANO

UNIDAD: U

RU044 Desmontaje de mobiliario urbano (bancas, papeleras, señalización, etc.)

| UBICACIÓN | UNIDAD | OBSERVACIONES |
|----------------|--------|---------------|
| | (U) | |
| Varios frentes | 57.00 | |
| | | |
| | | |

TOTAL = 57.00 U



ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015



ING. JOSE ANGEL BLANCO
FISCALIZACIÓN
INCA S.A.

RU044 Desmontaje de mobiliario urbano (bancas, papeleras, señalización, etc.)

| DESCRIPCIÓN | CANTIDAD (U) | OBSERVACIONES |
|--|-----------------|--|
| Tapa de pozo colector de hierro fundido | 7.00 | Acta entrega-recepcion Nro. R00001-R00003 |
| Tapa de pozo de alcantarillado de hierro fundido | 8.00 | Acta entrega-recepcion Nro. R00001-R00003-R00007-R00008-R00009 |
| Sumidero de hierro fundido completo | 5.00 | Acta entrega-recepcion Nro. R00001-R00002-R00008 |
| Sumidero de hierro fundido 40X30cm | 2.00 | Acta entrega-recepcion Nro. R00007 |
| Sumidero de varilla completo | 1.00 | Acta entrega-recepcion Nro. R00002 |
| Aro de pozo colector de hierro fundido | 2.00 | Acta entrega-recepcion Nro. R00003-R00007 |
| Caja de acera Umapal (aluminio) | 3.00 | Acta entrega-recepcion Nro. R00005 |
| Caja de acera Umapal (hierro fundido) | 22.00 | Acta entrega-recepcion Nro. R00005 |
| Caja de acera Umapal plástico | 6.00 | Acta entrega-recepcion Nro. R00005 |
| Señalética de tránsito | 1.00 | Acta entrega-recepcion Nro. R00006 |
| TOTAL : | 57.00 | U |



4

ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 16/ MAR / 2016

N° R00001

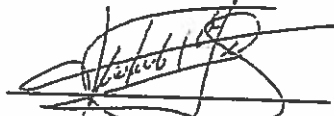
HORA: 15: 57

ZONA: 1 ETAPA: 1

FRENTE: 1

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|--|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Tapa de Pozo Colector de Hierro Fundido | 1 | 0 | 1 |
| 2 | Tapa de Pozo de Alcantarillado de Hierro Fundido | 1 | 0 | 1 |
| 3 | Sumidero de Hierro Fundido Completo | 2 | 0 | 2 |


ENTREGO CONFORME:



Ing. Eduardo Araujo

HIDALGO-HIDALGO

RECIBO CONFORME:



Alexander Prado

E. BODEGA DE REGENERACIÓN
URBANA



Ing. Julio Juca

FISCALIZADOR INCA

A

ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 16/ MAR / 2016

N° R00002

HORA: 15: 57

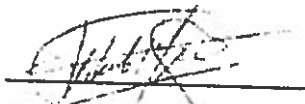
ZONA: 2

ETAPA: 1

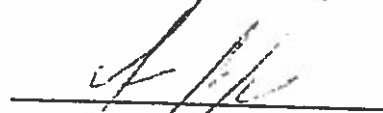
FRENTE: 1

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|--|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Sumidero de Calzada de Hierro Fundido Completo | 2 | 0 | 2 |
| 2 | Sumidero de Calzada de Varilla Completo | 1 | 0 | 1 |

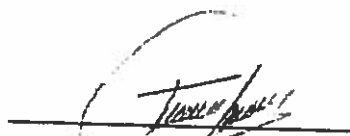
ENTREGO CONFORME:


Ing. Eduardo Araujo
HIDALGO-HIDALGO

RECIBO CONFORME:


Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA


Ing. Julio Uca
FISCALIZADOR INCA



ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 17/ MAR / 2016

N° R00003

HORA: 16:00

ZONA: 4

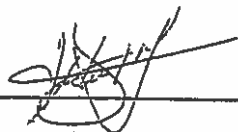
ETAPA: 1

FRENTE: 6

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|--|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Tapa de Pozo Colector de Hierro Fundido | 6 | 0 | 6 |
| 2 | Tapa de Pozo de Alcantarillado de Hierro Fundido | 3 | 0 | 3 |
| 3 | Aro de Pozo Colector de Hierro Fundido | 1 | 0 | 1 |

NOTA: LAS TAPAS DE POZO COLECTOR DE HIERRO FUNDIDO DEBEN RESTITUIRSE A LA OBRA UNA VEZ QUE LAS MISMAS SE REQUIERAN PARA SU REEMPLAZACIÓN

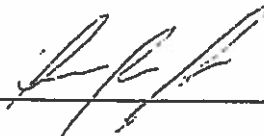
ENTREGO CONFORME:



Ing. Eduardo Araujo

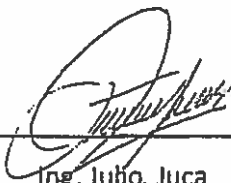
HIDALGO-HIDALGO

RECIBO CONFORME:



Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA



Ing. Julio Juca

FISCALIZADOR INCA



ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 22/ MAR / 2016

N° R00005

HORA: 16:00

ZONA: 3

ETAPA: 2

FRENTE: 5

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|-------------------------------------|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Caja de Acera Umapal Aluminio | 3 | 0 | 3 |
| 2 | Caja de Acera Umapal Hierro Fundido | 20 | 2 | 22 |
| 3 | Caja de Acera Umapal Plástico | 3 | 3 | 6 |

ENTREGO CONFORME:

Ing. Eduardo Araujo

HIDALGO-HIDALGO

RECIBO CONFORME:

Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA

Ing. Paúl Ochoa

FISCALIZADOR INCA

ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 24/ MAR / 2016

R00006

ZONA: 2

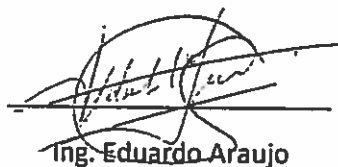
ETAPA: 1

HORA: 11:30

FRENTE: 1

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|------------------------|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Señalética de Tránsito | 1 | 0 | 1 |

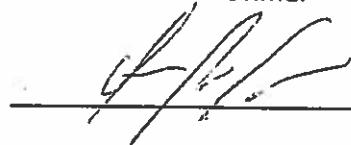
ENTREGO CONFORME:



Ing. Eduardo Araujo

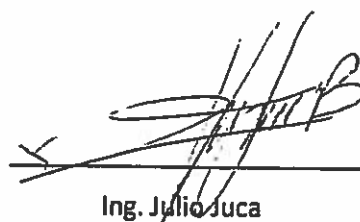
HIDALGO-HIDALGO

RECIBO CONFORME:



Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA



Ing. Julio Juca

FISCALIZADOR INCA

Ing. Francisco Sarmiento



4

ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 29/ MAR / 2016

N° R00007

HORA: 16:34

ZONA: 1

ETAPA: 1

FRENTE: 1

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|---|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Aro de Sumidero de Hierro Fundido de 40X30cm | 1 | 0 | 1 |
| 2 | Sumidero de Hierro Fundido 40X30cm | 2 | 0 | 2 |
| 3 | Tapa de Pozo de Alcantarillado de Hierro Fundido 70cm | 1 | 0 | 1 |

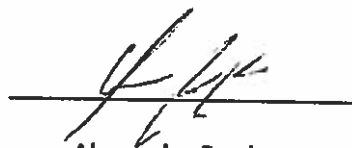
ENTREGO CONFORME:



Ing. Eduardo Araujo

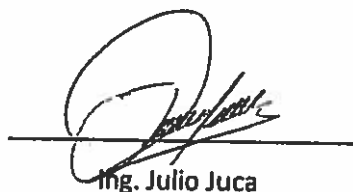
HIDALGO-HIDALGO

RECIBO CONFORME:



Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA



Ing. Julio Juca

FISCALIZADOR INCA



ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 29/ MAR / 2016

N° R00008

HORA: 16:45

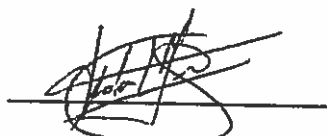
ZONA: 2

ETAPA: 1

FRENTE: 2

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|-------------------------------------|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Sumiero de Hierro Fundido | 1 | 0 | 1 |
| 2 | Tapa de Pozo de Hierro Fundido 70cm | 1 | 0 | 1 |

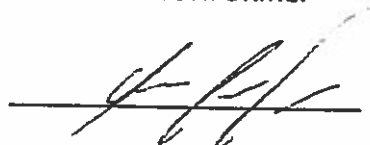
ENTREGO CONFORME:



Ing. Eduardo Araujo

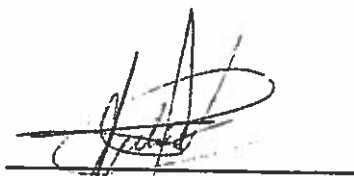
HIDALGO-HIDALGO

RECIBO CONFORME:



Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA



Ing. Paúl Ochoa

FISCALIZADOR INCA

4

ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 29/ MAR / 2016

N° R00009

HORA: 17:45

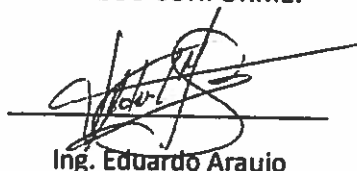
ZONA: 4

ETAPA: 1

FRENTE: 6

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|---|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Tapa de Pozo de Alcantarillado de Hierro Fundido 70cm | 2 | 0 | 2 |
| 2 | Luminaria Individual color gris una sin foco y la otra con foco | 2 | 0 | 2 |

ENTREGO CONFORME:



Ing. Eduardo Araujo


HIDALGO-HIDALGO

RECIBO CONFORME:



Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA



FALSYO AMOREJ
FISCALIZADOR INCA





MUNICIPIO DE LOJA

PROYECTO: "CONSTRUCCIÓN DEL PLAN DE ORDENAMIENTO Y DESARROLLO SOSTENIBLE DEL CASCO URBANO CENTRAL DE LA CIUDAD DE LOJA"

CONTRATISTA:
FISCALIZACIÓN:

CONSORCIO LOJA 2015
INCA SERVICIOS Y PROYECTOS DE
INGENIERIA CIVIL, S.A.

PLANILLA: 1
PERIODO: MARZO/2016
RUBRO: 443

CAPITULO:
SUBCAPITULO:

REGENERACIÓN URBANA
MOBILIARIO URBANO

UNIDAD: U

RU045 Remoción de postes de hierro de alumbrado público y semaforización

| UBICACIÓN | UNIDAD | OBSERVACIONES |
|-----------|--------|---------------|
| | (U) | |
| | | |
| VARIOS | 4.00 | |
| | | |
| | | |

TOTAL = 4.00 U



ING. CLAY SAMANIEGO
SUPERINTENDENTE
CONSORCIO LOJA 2015



ING. JOSE ANGEL BLANCO
FISCALIZACIÓN
INCA S.A.

RU045 Remoción de postes de hierro de alumbrado público y semaforización

| DESCRIPCIÓN | CANTIDAD (U) | OBSERVACIONES |
|------------------------------------|-----------------|------------------------------------|
| | | |
| Luminaria doble tipo vela de barco | 2.00 | Acta entrega-recepcion Nro. R00004 |
| Luminaria individual color gris | 2.00 | Acta entrega-recepcion Nro. R00009 |
| | | |
| TOTAL : | 4.00 | U |



4

ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 18/ MAR / 2016

N° R00004

HORA: 18:15

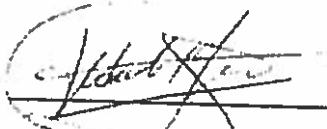
ZONA: 2

ETAPA: 1

FRENTE: 1

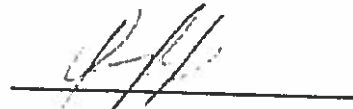
| MATERIALES | | CANTIDAD | | TOTAL |
|------------|---|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Luminaria Doble Tipo Vela de Barco (Blanco con Celeste) | 2 | 0 | 2 |

ENTREGO CONFORME:


Ing. eduardo Araujo

HIDALGO-HIDALGO

RECIBO CONFORME:


Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA


Ing. Julio Juca

FISCALIZADOR INCA

4

ACTA ENTREGA-RECEPCIÓN

MATERIALES PARA REUTILIZAR PROVENIENTES DEL PROYECTO DE REGENERACIÓN URBANA

Fecha : 29/ MAR / 2016

N° R00009

HORA: 17:45

ZONA: 4

ETAPA: 1

FRENTE: 6

| MATERIALES | | CANTIDAD | | TOTAL |
|------------|---|----------|------|-------|
| | | ESTADO | | |
| | | REGULAR | MALO | |
| 1 | Tapa de Pozo de Alcantarillado de Hierro Fundido 70cm | 2 | 0 | 2 |
| 2 | Luminaria Individual color gris una sin foco y la otra con foco | 2 | 0 | 2 |

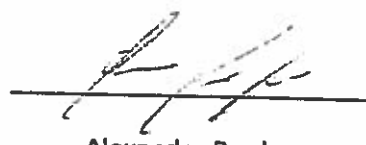
ENTREGO CONFORME:



Ing. Eduardo Araujo

HIDALGO-HIDALGO

RECIBO CONFORME:



Alexander Prado

E. BODEGA DE REGENERACIÓN URBANA



Fawio Amores
FISCALIZADOR INCA

4