**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 5+040,00 -5+440,00 IZQ.

**Tipo:** Excavacion y reposicion de bolsones

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion Bolson | Reposicion Pedraplén | | Excavación | Terraplén | Excavacion Bolson | Reposicion Pedraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 5+040,00 | | | 20,00 | | | | |
| 5+060,00 | | | 20,00 | | | | |
| 5+080,00 | | | 20,00 | | | | |
| 5+100,00 | -1,5500 | 1,5500 | 20,00 | -2,1806 | 2,1806 | -43,61 | 43,61 |
| 5+120,00 | -2,8111 | 2,8111 | 20,00 | -1,9683 | 1,9683 | -39,37 | 39,37 |
| 5+140,00 | -1,1254 | 1,1254 | 20,00 | -6,3906 | 6,3906 | -127,81 | 127,81 |
| 5+160,00 | -11,6557 | 11,6557 | 20,00 | -11,6682 | 11,6682 | -233,36 | 233,36 |
| 5+180,00 | -11,6806 | 11,6806 | 20,00 | -11,9154 | 11,9154 | -238,31 | 238,31 |
| 5+200,00 | -12,1501 | 12,1501 | 20,00 | -6,0751 | | | |
| 5+220,00 | | | 20,00 | | | | |
| 5+240,00 | | | 20,00 | | | | |
| 5+260,00 | | | 20,00 | | | | |
| 5+280,00 | | | 20,00 | | | | |
| 5+300,00 | | | 20,00 | | | | |
| 5+320,00 | -16,3108 | 16,3108 | 20,00 | -16,3038 | 16,3038 | -326,08 | 326,08 |
| 5+340,00 | -16,2967 | 16,2967 | 20,00 | -15,7865 | 15,7865 | -315,73 | 315,73 |
| 5+360,00 | -15,2763 | 15,2763 | 20,00 | -16,2088 | 16,2088 | -324,18 | 324,18 |
| 5+380,00 | -17,1412 | 17,1412 | 20,00 | -16,7685 | 16,7685 | -335,37 | 335,37 |
| 5+400,00 | -16,3958 | 16,3958 | 20,00 | -16,2387 | 16,2387 | -324,77 | 324,77 |
| 5+420,00 | -16,0816 | 16,0816 | 20,00 | -8,0408 | | | |
| 5+440,00 | | | | | | | |
| **Totales:** | | | 400,00 ml | | | -2.308,58 m³ | 2.308,58 m³ |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 8+700,00 -9+640,00 IZQ.

**Tipo:** Excavacion y reposicion de bolsones

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion Bolson | Reposicion Pedraplén | | Excavación | Terraplén | Excavacion Bolson | Reposicion Pedraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 8+700,00 | -5,8677 | 5,8677 | 20,00 | -5,1348 | 5,1348 | -102,70 | 102,70 |
| 8+720,00 | -4,4019 | 4,4019 | 20,00 | -4,3104 | 4,3104 | -86,21 | 86,21 |
| 8+740,00 | -4,2189 | 4,2189 | 20,00 | -4,1992 | 4,1992 | -83,98 | 83,98 |
| 8+760,00 | -4,1795 | 4,1795 | 20,00 | -4,2598 | 4,2598 | -85,20 | 85,20 |
| 8+780,00 | -4,3400 | 4,3400 | 20,00 | -4,3462 | 4,3462 | -86,92 | 86,92 |
| 8+800,00 | -4,3524 | 4,3524 | 20,00 | -4,8131 | 4,8131 | -96,26 | 96,26 |
| 8+820,00 | -5,2737 | 5,2737 | 20,00 | -5,3195 | 5,3195 | -106,39 | 106,39 |
| 8+840,00 | -5,3652 | 5,3652 | 20,00 | -5,5315 | 5,5315 | -110,63 | 110,63 |
| 8+860,00 | -5,6977 | 5,6977 | 20,00 | -5,3607 | 5,3607 | -107,21 | 107,21 |
| 8+880,00 | -5,0237 | 5,0237 | 20,00 | -4,6913 | 4,6913 | -93,83 | 93,83 |
| 8+900,00 | -4,3589 | 4,3589 | 20,00 | -5,6588 | 5,6588 | -113,18 | 113,18 |
| 8+920,00 | -6,9587 | 6,9587 | 20,00 | -7,0528 | 7,0528 | -141,06 | 141,06 |
| 8+940,00 | -7,1468 | 7,1468 | 20,00 | -7,6716 | 7,6716 | -153,43 | 153,43 |
| 8+960,00 | -8,1964 | 8,1964 | 20,00 | -8,3349 | 8,3349 | -166,70 | 166,70 |
| 8+980,00 | -8,4734 | 8,4734 | 20,00 | -8,6505 | 8,6505 | -173,01 | 173,01 |
| 9+000,00 | -8,8275 | 8,8275 | 20,00 | -9,8055 | 9,8055 | -196,11 | 196,11 |
| 9+020,00 | -10,7835 | 10,7835 | 20,00 | -8,2757 | 8,2757 | -165,51 | 165,51 |
| 9+040,00 | -5,7678 | 5,7678 | 20,00 | -6,8383 | 6,8383 | -136,77 | 136,77 |
| 9+060,00 | -7,9088 | 7,9088 | 20,00 | -7,2141 | 7,2141 | -144,28 | 144,28 |
| 9+080,00 | -6,5194 | 6,5194 | 20,00 | -6,6915 | 6,6915 | -133,83 | 133,83 |
| 9+100,00 | -6,8635 | 6,8635 | 20,00 | -7,2203 | 7,2203 | -144,41 | 144,41 |
| 9+120,00 | -7,5771 | 7,5771 | 20,00 | -9,7586 | 9,7586 | -195,17 | 195,17 |
| 9+140,00 | -11,9401 | 11,9401 | 20,00 | -9,0053 | 9,0053 | -180,11 | 180,11 |
| 9+160,00 | -6,0704 | 6,0704 | 20,00 | -6,1119 | 6,1119 | -122,24 | 122,24 |
| 9+180,00 | -6,1534 | 6,1534 | 20,00 | -5,4864 | 5,4864 | -109,73 | 109,73 |
| 9+200,00 | -4,8193 | 4,8193 | 20,00 | -5,0925 | 5,0925 | -101,85 | 101,85 |
| 9+220,00 | -5,3657 | 5,3657 | 20,00 | -5,3350 | 5,3350 | -106,70 | 106,70 |
| 9+240,00 | -5,3042 | 5,3042 | 20,00 | -4,1662 | 4,1662 | -83,32 | 83,32 |
| 9+260,00 | -3,0282 | 3,0282 | 20,00 | -4,2743 | 4,2743 | -85,49 | 85,49 |
| 9+280,00 | -5,5203 | 5,5203 | 20,00 | -4,8857 | 4,8857 | -97,71 | 97,71 |
| 9+300,00 | -4,2510 | 4,2510 | 20,00 | -3,5813 | 3,5813 | -71,63 | 71,63 |
| 9+320,00 | -2,9116 | 2,9116 | 20,00 | -3,4264 | 3,4264 | -68,53 | 68,53 |
| 9+340,00 | -3,9412 | 3,9412 | 20,00 | | | | |
| 9+360,00 | -4,2292 | 4,2292 | 20,00 | -3,7674 | 3,7674 | -75,35 | 75,35 |
| 9+380,00 | -3,3055 | 3,3055 | 20,00 | -5,2074 | 5,2074 | -104,15 | 104,15 |
| 9+400,00 | -7,1093 | 7,1093 | 20,00 | -5,1416 | 5,1416 | -102,83 | 102,83 |
| 9+420,00 | -3,1738 | 3,1738 | 20,00 | -4,1293 | 4,1293 | -82,59 | 82,59 |
| 9+440,00 | -5,0847 | 5,0847 | 20,00 | -6,7931 | 6,7931 | -135,86 | 135,86 |
| 9+460,00 | -8,5014 | 8,5014 | 20,00 | -9,2749 | 9,2749 | -185,50 | 185,50 |
| 9+480,00 | -10,0483 | 10,0483 | 20,00 | -7,7250 | 7,7250 | -154,50 | 154,50 |
| 9+500,00 | -5,4016 | 5,4016 | 20,00 | -5,1488 | 5,1488 | -102,98 | 102,98 |
| 9+520,00 | -4,8959 | 4,8959 | 20,00 | -5,8138 | 5,8138 | -116,28 | 116,28 |
| 9+540,00 | -6,7316 | 6,7316 | 20,00 | -7,1926 | 7,1926 | -143,85 | 143,85 |
| 9+560,00 | -7,6536 | 7,6536 | 20,00 | -5,2053 | 5,2053 | -104,11 | 104,11 |
| 9+580,00 | -2,7569 | 2,7569 | 20,00 | -3,0486 | 3,0486 | -60,97 | 60,97 |
| 9+600,00 | -3,3403 | 3,3403 | 20,00 | -4,3054 | 4,3054 | -86,11 | 86,11 |
| 9+620,00 | -5,2705 | 5,2705 | 20,00 | -4,1268 | 4,1268 | -82,54 | 82,54 |
| 9+640,00 | -2,9831 | 2,9831 | | | | | |
| **Totales:** | | | 940,00 ml | | | **-5.387,66 m³** | **5.387,66 m³** |

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**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 1+540,00 -1+640,00 DER.

**Tipo:** EXCAVACION Y REPOSICION DE BOLSONES

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion Bolson | Reposicion Pedraplén | | Excavación | Terraplén | Excavacion Bolson | Reposicion Pedraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 1+540,00 | -4,7164 | 4,7164 | 20,00 | -5,1799 | 5,1799 | -103,60 | 103,60 |
| 1+560,00 | -5,6434 | 5,6434 | 20,00 | -5,2807 | 5,2807 | -105,61 | 105,61 |
| 1+580,00 | -4,9179 | 4,9179 | 20,00 | -2,9272 | 2,9272 | -58,54 | 58,54 |
| 1+600,00 | -0,9365 | 0,9365 | 20,00 | -2,2857 | 2,2857 | -45,71 | 45,71 |
| 1+620,00 | -3,6348 | 3,6348 | 20,00 | -3,1806 | 3,1806 | -63,61 | 63,61 |
| 1+640,00 | -2,7264 | 2,7264 | | | | | |
| **Totales:** | | | 100,00 ml | | | **-377,08 m³** | **377,08 m³** |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 1+660,00 -1+900,00 DER.

**Tipo:** EXCAVACION Y REPOSICION DE BOLSONES

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion Bolson | Reposicion Pedraplén | | Excavación | Terraplén | Excavacion Bolson | Reposicion Pedraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 1+660,00 | -0,9889 | 0,9889 | 20,00 | -1,2950 | 1,2950 | -25,90 | 25,90 |
| 1+680,00 | -1,6011 | 1,6011 | 20,00 | -2,4226 | 2,4226 | -48,45 | 48,45 |
| 1+700,00 | -3,2440 | 3,2440 | 20,00 | -2,2003 | 2,2003 | -44,01 | 44,01 |
| 1+720,00 | -1,1565 | 1,1565 | 20,00 | -1,7166 | 1,7166 | -34,33 | 34,33 |
| 1+740,00 | -2,2767 | 2,2767 | 20,00 | -5,6719 | 5,6719 | -113,44 | 113,44 |
| 1+760,00 | -9,0670 | 9,0670 | 20,00 | -5,4642 | 5,4642 | -109,28 | 109,28 |
| 1+780,00 | -1,8613 | 1,8613 | 20,00 | -1,9356 | 1,9356 | -38,71 | 38,71 |
| 1+800,00 | -2,0099 | 2,0099 | 20,00 | -2,1560 | 2,1560 | -43,12 | 43,12 |
| 1+820,00 | -2,3021 | 2,3021 | 20,00 | -2,5738 | 2,5738 | -51,48 | 51,48 |
| 1+840,00 | -2,8454 | 2,8454 | 20,00 | -2,5653 | 2,5653 | -51,31 | 51,31 |
| 1+860,00 | -2,2852 | 2,2852 | 20,00 | -3,7931 | 3,7931 | -75,86 | 75,86 |
| 1+880,00 | -5,3010 | 5,3010 | 20,00 | -5,0005 | 5,0005 | -100,01 | 100,01 |
| 1+900,00 | -4,6999 | 4,6999 | | | | | |
| **Totales:** | | | 240,00 ml | | | **-735,89 m³** | **735,89 m³** |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 1+920,00 -2+200,00 DER.

**Tipo:** EXCAVACION Y REPOSICION DE BOLSONES

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion Bolson | Reposicion Pedraplén | | Excavación | Terraplén | Excavacion Bolson | Reposicion Pedraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 1+920,00 | -3,3661 | 3,3661 | 20,00 | -2,9679 | 2,9679 | -59,36 | 59,36 |
| 1+940,00 | -2,5697 | 2,5697 | 20,00 | -3,4411 | 3,4411 | -68,82 | 68,82 |
| 1+960,00 | -4,3124 | 4,3124 | 20,00 | -3,1122 | 3,1122 | -62,24 | 62,24 |
| 1+980,00 | -1,9119 | 1,9119 | 20,00 | -2,6855 | 2,6855 | -53,71 | 53,71 |
| 2+000,00 | -3,4590 | 3,4590 | 20,00 | -3,1823 | 3,1823 | -63,65 | 63,65 |
| 2+020,00 | -2,9056 | 2,9056 | 20,00 | -2,7696 | 2,7696 | -55,39 | 55,39 |
| 2+040,00 | -2,6336 | 2,6336 | 20,00 | -3,1936 | 3,1936 | -63,87 | 63,87 |
| 2+060,00 | -3,7535 | 3,7535 | 20,00 | -3,1287 | 3,1287 | -62,57 | 62,57 |
| 2+080,00 | -2,5039 | 2,5039 | 20,00 | -2,7989 | 2,7989 | -55,98 | 55,98 |
| 2+100,00 | -3,0939 | 3,0939 | 20,00 | -3,3744 | 3,3744 | -67,49 | 67,49 |
| 2+120,00 | -3,6548 | 3,6548 | 20,00 | -3,9144 | 3,9144 | -78,29 | 78,29 |
| 2+140,00 | -4,1740 | 4,1740 | 20,00 | -3,4316 | 3,4316 | -68,63 | 68,63 |
| 2+160,00 | -2,6892 | 2,6892 | 20,00 | -2,8071 | 2,8071 | -56,14 | 56,14 |
| 2+180,00 | -2,9249 | 2,9249 | 20,00 | -3,0221 | 3,0221 | -60,44 | 60,44 |
| 2+200,00 | -3,1193 | 3,1193 | | | | | |
| **Totales:** | | | 280,00 ml | | | -876,58 m³ | 876,58 m³ |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 5+040,00 -5+420,00 DER.

**Tipo:** EXCAVACION Y REPOSICION DE BOLSONES

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion Bolson | Reposicion Pedraplén | | Excavación | Terraplén | Excavacion Bolson | Reposicion Pedraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 5+040,00 | -2,1647 | 2,1647 | 20,00 | -3,0810 | 3,0810 | -61,62 | 61,62 |
| 5+060,00 | -3,9972 | 3,9972 | 20,00 | -3,5182 | 3,5182 | -70,36 | 70,36 |
| 5+080,00 | -3,0392 | 3,0392 | 20,00 | -4,5074 | 4,5074 | -90,15 | 90,15 |
| 5+100,00 | -5,9756 | 5,9756 | 20,00 | -3,2597 | 3,2597 | -65,19 | 65,19 |
| 5+120,00 | -0,5437 | 0,5437 | 20,00 | -0,2719 | 0,2719 | -5,44 | 5,44 |
| 5+140,00 | | | 20,00 | -0,8949 | 0,8949 | -17,90 | 17,90 |
| 5+160,00 | -1,7897 | 1,7897 | 20,00 | -1,6543 | 1,6543 | -33,09 | 33,09 |
| 5+180,00 | -1,5188 | 1,5188 | 20,00 | -2,0521 | 2,0521 | -41,04 | 41,04 |
| 5+200,00 | -2,5853 | 2,5853 | 20,00 | -4,5708 | 4,5708 | -91,42 | 91,42 |
| 5+220,00 | -6,5563 | 6,5563 | 20,00 | -5,4809 | 5,4809 | -109,62 | 109,62 |
| 5+240,00 | -4,4055 | 4,4055 | 20,00 | -4,3651 | 4,3651 | -87,30 | 87,30 |
| 5+260,00 | -4,3247 | 4,3247 | 20,00 | -5,4797 | 5,4797 | -109,59 | 109,59 |
| 5+280,00 | -6,6347 | 6,6347 | 20,00 | -9,8133 | 9,8133 | -196,27 | 196,27 |
| 5+300,00 | -12,9919 | 12,9919 | 20,00 | | | | |
| 5+320,00 | | | 20,00 | | | | |
| 5+340,00 | | | 20,00 | | | | |
| 5+360,00 | | | 20,00 | | | | |
| 5+380,00 | | | 20,00 | | | | |
| 5+400,00 | | | 20,00 | | | | |
| 5+420,00 | | | | | | | |
| **Totales:** | | | 380,00 ml | | | **-978,98 m³** | **978,98 m³** |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 5+500,00 -5+620,00 DER.

**Tipo:** EXCAVACION Y REPOSICION DE BOLSONES

**Volúmen:** **Total** ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva m. | Areas Excavacion Bolson m² | Areas Reposicion Pedraplén m² | Distancia m. | Areas Medias Excavación m² | Areas Medias Terraplén m² | Volumen Excavacion Bolson m³ | Volumen Reposicion Pedraplén m³ |
|---|---|---|---|---|---|---|---|
| 5+500,00 | -2,0769 | 2,0769 | 20,00 | -3,0373 | 3,0373 | -60,75 | 60,75 |
| 5+520,00 | -3,9976 | 3,9976 | 20,00 | -5,2569 | 5,2569 | -105,14 | 105,14 |
| 5+540,00 | -6,5161 | 6,5161 | 20,00 | -4,4720 | 4,4720 | -89,44 | 89,44 |
| 5+560,00 | -2,4278 | 2,4278 | 20,00 | -2,6871 | 2,6871 | -53,74 | 53,74 |
| 5+580,00 | -2,9463 | 2,9463 | 20,00 | -2,8322 | 2,8322 | -56,64 | 56,64 |
| 5+600,00 | -2,7181 | 2,7181 | 20,00 | -2,1356 | 2,1356 | -42,71 | 42,71 |
| 5+620,00 | -1,5530 | 1,5530 | | | | | |
| **Totales:** | | | 120,00 ml | | | **-408,42 m³** | **408,42 m³** |

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**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 6+940,00 -7+160,00 DER.

**Tipo:** EXCAVACION Y REPOSICION DE BOLSONES

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion Bolson | Reposicion Pedraplén | | Excavación | Terraplén | Excavacion Bolson | Reposicion Pedraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 6+940,00 | -2,3967 | 2,3967 | 20,00 | -2,1663 | 2,1663 | -43,33 | 43,33 |
| 6+960,00 | -1,9358 | 1,9358 | 20,00 | -2,0482 | 2,0482 | -40,96 | 40,96 |
| 6+980,00 | -2,1606 | 2,1606 | 20,00 | -2,7838 | 2,7838 | -55,68 | 55,68 |
| 7+000,00 | -3,4069 | 3,4069 | 20,00 | -3,0444 | 3,0444 | -60,89 | 60,89 |
| 7+020,00 | -2,6818 | 2,6818 | 20,00 | -2,6047 | 2,6047 | -52,09 | 52,09 |
| 7+040,00 | -2,5275 | 2,5275 | 20,00 | -2,1859 | 2,1859 | -43,72 | 43,72 |
| 7+060,00 | -1,8443 | 1,8443 | 20,00 | -2,2906 | 2,2906 | -45,81 | 45,81 |
| 7+080,00 | -2,7369 | 2,7369 | 20,00 | -2,2385 | 2,2385 | -44,77 | 44,77 |
| 7+100,00 | -1,7401 | 1,7401 | 20,00 | -3,1261 | 3,1261 | -62,52 | 62,52 |
| 7+120,00 | -4,5120 | 4,5120 | 20,00 | -3,1916 | 3,1916 | -63,83 | 63,83 |
| 7+140,00 | -1,8711 | 1,8711 | 20,00 | -1,3593 | 1,3593 | -27,19 | 27,19 |
| 7+160,00 | -0,8474 | 0,8474 | | | | | |
| **Totales:** | | | 220,00 ml | | | **-540,78 m³** | **540,78 m³** |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** Capillita - Aleman cue Tramo: 0 -10280

**Tramo:** 8+720,00 -8+980,00 DER.

**Tipo:** EXCAVACION Y REPOSICION DE BOLSONES

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion Bolson | Reposicion Pedraplén | | Excavación | Terraplén | Excavacion Bolson | Reposicion Pedraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 8+720,00 | -3,4286 | 3,4286 | 20,00 | -7,5412 | 7,5412 | -64,42 | 64,42 |
| 8+740,00 | -11,6537 | 11,6537 | 20,00 | -8,1514 | 8,1514 | -163,03 | 163,03 |
| 8+760,00 | -4,6491 | 4,6491 | 20,00 | -6,9384 | 6,9384 | -138,77 | 138,77 |
| 8+780,00 | -9,2276 | 9,2276 | 20,00 | -8,8114 | 8,8114 | -176,23 | 176,23 |
| 8+800,00 | -8,3952 | 8,3952 | 20,00 | -6,5675 | 6,5675 | -131,35 | 131,35 |
| 8+820,00 | -4,7397 | 4,7397 | 20,00 | -6,0173 | 6,0173 | -120,35 | 120,35 |
| 8+840,00 | -7,2949 | 7,2949 | 20,00 | -7,5955 | 7,5955 | -151,91 | 151,91 |
| 8+860,00 | -7,8961 | 7,8961 | 20,00 | -7,6215 | 7,6215 | -152,43 | 152,43 |
| 8+880,00 | -7,3468 | 7,3468 | 20,00 | -7,2600 | 7,2600 | -145,20 | 145,20 |
| 8+900,00 | -7,1732 | 7,1732 | 20,00 | -6,8780 | 6,8780 | -137,56 | 137,56 |
| 8+920,00 | -6,5827 | 6,5827 | 20,00 | -7,0373 | 7,0373 | -140,75 | 140,75 |
| 8+940,00 | -7,4918 | 7,4918 | 20,00 | -6,5932 | 6,5932 | -131,86 | 131,86 |
| 8+960,00 | -5,6946 | 5,6946 | 20,00 | -5,1942 | 5,1942 | -103,88 | 103,88 |
| 8+980,00 | -4,6937 | 4,6937 | | | | | |
| **Totales:** | | | 260,00 ml | | | **-1.757,73 m³** | **1.757,73 m³** |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 03 - 3 DE MAYO Tramo: 20 -700

**Tramo:** 0+20,00 -0+700,00

**Tipo:** PLANILLA DE VOLUMEN MOVIMIENTO DE SUELO

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

14/10/2019

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion | Terraplén | | Excavación | Terraplén | Excavación | Terraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 0+20,00 | -1,6796 | 2,9284 | 20,00 | -3,2814 | 1,4642 | -65,63 | 29,28 |
| 0+40,00 | -4,8831 | | 20,00 | -4,9287 | 0,0192 | -98,57 | 0,38 |
| 0+60,00 | -4,9743 | 0,0383 | 20,00 | -6,6638 | 0,0196 | -133,28 | 0,39 |
| 0+80,00 | -8,3533 | 0,0008 | 20,00 | -8,0907 | 0,0793 | -161,81 | 1,59 |
| 0+100,00 | -7,8280 | 0,1577 | 20,00 | -9,7065 | 0,0973 | -194,13 | 1,95 |
| 0+120,00 | -11,5850 | 0,0369 | 20,00 | -11,0960 | 0,0185 | -221,92 | 0,37 |
| 0+140,00 | -10,6070 | | 20,00 | -8,4472 | | -168,94 | |
| 0+160,00 | -6,2874 | | 20,00 | -4,9899 | 0,2118 | -99,80 | 4,24 |
| 0+180,00 | -3,6924 | 0,4236 | 20,00 | -1,8462 | 2,6266 | -36,92 | 52,53 |
| 0+200,00 | | 4,8296 | 20,00 | | 4,4426 | | 88,85 |
| 0+220,00 | | 4,0555 | 20,00 | | 4,0846 | | 81,69 |
| 0+240,00 | | 4,1136 | 20,00 | -0,2190 | 2,9400 | -4,38 | 58,80 |
| 0+260,00 | -0,4379 | 1,7664 | 20,00 | -0,2190 | 1,7586 | -4,38 | 35,17 |
| 0+280,00 | | 1,7507 | 20,00 | -0,1117 | 1,3943 | -2,23 | 27,89 |
| 0+300,00 | -0,2234 | 1,0378 | 20,00 | -1,4613 | 0,8777 | -29,23 | 17,55 |
| 0+320,00 | -2,6992 | 0,7175 | 20,00 | -1,7767 | 0,5320 | -35,53 | 10,64 |
| 0+340,00 | -0,8542 | 0,3465 | 20,00 | -0,9930 | 1,0002 | -19,86 | 20,00 |
| 0+360,00 | -1,1318 | 1,6539 | 20,00 | -1,0290 | 4,7104 | -20,58 | 94,21 |
| 0+380,00 | -0,9261 | 7,7668 | 20,00 | -0,6706 | 7,0014 | -13,41 | 140,03 |
| 0+400,00 | -0,4150 | 6,2359 | 20,00 | -1,5508 | 3,1825 | -31,02 | 63,65 |
| 0+420,00 | -2,6865 | 0,1291 | 20,00 | -2,0888 | 0,4985 | -41,78 | 9,97 |
| 0+440,00 | -1,4910 | 0,8679 | 20,00 | -2,6093 | 0,5617 | -52,19 | 11,23 |
| 0+460,00 | -3,7276 | 0,2555 | 20,00 | -3,9536 | 0,1288 | -79,07 | 2,58 |
| 0+480,00 | -4,1795 | 0,0021 | 20,00 | -5,3283 | 0,0011 | -106,57 | 0,02 |
| 0+500,00 | -6,4770 | | 20,00 | -5,7946 | | -115,89 | |
| 0+520,00 | -5,1121 | | 20,00 | -3,9015 | | -78,03 | |
| 0+540,00 | -2,6908 | | 20,00 | -2,6334 | | -52,67 | |
| 0+560,00 | -2,5759 | | 20,00 | -3,4456 | | -68,91 | |
| 0+580,00 | -4,3153 | | 20,00 | -4,2001 | | -84,00 | |
| 0+600,00 | -4,0849 | | 20,00 | -3,3617 | 0,0121 | -67,23 | 0,24 |
| 0+620,00 | -2,6384 | 0,0241 | 20,00 | -2,0416 | 0,0261 | -40,83 | 0,52 |
| 0+640,00 | -1,4447 | 0,0281 | 20,00 | -1,5946 | 0,0336 | -31,89 | 0,67 |
| 0+660,00 | -1,7445 | 0,0390 | 20,00 | -3,2246 | 0,0195 | -64,49 | 0,39 |
| 0+680,00 | -4,7046 | | 20,00 | -4,2979 | | -85,96 | |
| 0+700,00 | -3,8912 | | | | | | |
| **Totales:** | | | 680,00 ml | | | **-2.311,13 m³** | **754,83 m³** |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 01 - ACCESO 3 de MAYO Tramo: 0 -4280

**Tramo:** -4+280,00

**Tipo:** VOLUMEN MOVIMIENTO DE SUELO

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion | Terraplén | | Excavación | Terraplén | Excavación | Terraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| | | 4,1558 | 20,00 | | 8,5660 | | |
| 0+20,00 | | 12,9761 | 2,00 | | 12,9865 | | 25,97 |
| 0+22,00 | | 12,9969 | 18,00 | | 12,2241 | | 220,03 |
| 0+40,00 | | 11,4512 | 20,00 | | 10,5516 | | 211,03 |
| 0+60,00 | | 9,6519 | 20,00 | | 8,1309 | | 162,62 |
| 0+80,00 | | 6,6099 | 20,00 | | 3,3050 | | 66,10 |
| 0+100,00 | | | 20,00 | -5,9125 | | | |
| 0+120,00 | -11,8250 | | 20,00 | -14,2270 | | -284,54 | |
| 0+140,00 | -16,6290 | | 20,00 | -18,2105 | | -364,21 | |
| 0+160,00 | -19,7920 | | 20,00 | -16,9770 | | -339,54 | |
| 0+180,00 | -14,1620 | | 20,00 | -16,2780 | | -325,56 | |
| 0+200,00 | -18,3940 | | 20,00 | -19,4475 | | -388,95 | |
| 0+220,00 | -20,5010 | | 20,00 | -20,1070 | | -402,14 | |
| 0+240,00 | -19,7130 | | 20,00 | -19,2585 | | -385,17 | |
| 0+260,00 | -18,8040 | | 20,00 | -18,4140 | | -368,28 | |
| 0+280,00 | -18,0240 | | 20,00 | -15,9610 | | -319,22 | |
| 0+300,00 | -13,8980 | | 20,00 | -14,0765 | | -281,53 | |
| 0+320,00 | -14,2550 | | 20,00 | -15,2370 | | -304,74 | |
| 0+340,00 | -16,2190 | | 20,00 | -16,8180 | | -336,36 | |
| 0+360,00 | -17,4170 | | 20,00 | -15,5415 | | -310,83 | |
| 0+380,00 | -13,6660 | | 20,00 | -10,6750 | | -213,50 | |
| 0+400,00 | -7,6840 | | 20,00 | -9,9980 | | -199,96 | |
| 0+420,00 | -12,3120 | | 20,00 | -14,3325 | | -286,65 | |
| 0+440,00 | -16,3530 | | 20,00 | -19,0440 | | -380,88 | |
| 0+460,00 | -21,7350 | | 20,00 | -23,3375 | | -466,75 | |
| 0+480,00 | -24,9400 | | 20,00 | -21,6815 | | -433,63 | |
| 0+500,00 | -18,4230 | | 20,00 | -15,7465 | 0,1844 | -314,93 | 3,69 |
| 0+520,00 | -13,0700 | 0,3687 | 20,00 | -6,5350 | 1,2275 | | 24,55 |
| 0+540,00 | | 2,0863 | 20,00 | | 11,1582 | | 223,16 |
| 0+560,00 | | 20,2301 | 20,00 | | 24,2044 | | 484,09 |
| 0+580,00 | | 28,1786 | 20,00 | | 45,0157 | | 900,31 |
| 0+600,00 | | 61,8528 | 15,00 | | 65,4209 | | 981,31 |
| 0+615,00 | | 68,9890 | 5,00 | | 71,4920 | | 357,46 |
| 0+620,00 | | 73,9949 | 20,00 | | 76,9199 | | 1.538,40 |
| 0+640,00 | | 79,8448 | 20,00 | | 80,6375 | | 1.612,75 |
| 0+660,00 | | 81,4302 | 20,00 | | 82,2281 | | 1.644,56 |
| 0+680,00 | | 83,0259 | 20,00 | | 82,4667 | | 1.649,33 |
| 0+700,00 | | 81,9075 | 20,00 | | 79,0016 | | 1.580,03 |
| 0+720,00 | | 76,0957 | 20,00 | | 73,8819 | | 1.477,64 |
| 0+740,00 | | 71,6680 | 20,00 | | 73,7950 | | 1.475,90 |
| 0+760,00 | | 75,9219 | 20,00 | | 76,6688 | | 1.533,38 |
| 0+780,00 | | 77,4156 | 20,00 | | 76,6859 | | 1.533,72 |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 01 - ACCESO 3 de MAYO Tramo: 0 -4280

**Tramo:** -4+280,00

**Tipo:** VOLUMEN MOVIMIENTO DE SUELO

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion | Terraplén | | Excavación | Terraplén | Excavación | Terraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 0+800,00 | | 75,9561 | 20,00 | | 72,1642 | | 1.443,28 |
| 0+820,00 | | 68,3722 | 20,00 | | 71,1590 | | 1.423,18 |
| 0+840,00 | | 73,9457 | 20,00 | | 71,2729 | | 1.425,46 |
| 0+860,00 | | 68,6000 | 20,00 | | 74,8888 | | 1.497,78 |
| 0+880,00 | | 81,1775 | 20,00 | | 83,5771 | | 1.671,54 |
| 0+900,00 | | 85,9766 | 20,00 | | 88,3706 | | 1.767,41 |
| 0+920,00 | | 90,7646 | 20,00 | -0,1875 | 84,6370 | -3,75 | 1.692,74 |
| 0+940,00 | -0,3750 | 78,5094 | 20,00 | -0,1875 | 69,0038 | -3,75 | 1.380,08 |
| 0+960,00 | | 59,4982 | 20,00 | | 50,6451 | | 1.012,90 |
| 0+980,00 | | 41,7919 | 20,00 | -1,2095 | 33,1189 | -24,19 | 662,38 |
| 1+000,00 | -2,4190 | 24,4459 | 20,00 | -3,0185 | 15,7426 | -60,37 | 314,85 |
| 1+020,00 | -3,6180 | 7,0392 | 20,00 | -10,7661 | 3,5203 | -215,32 | 70,41 |
| 1+040,00 | -17,9142 | 0,0013 | 20,00 | -23,8128 | 0,0007 | -476,26 | 0,01 |
| 1+060,00 | -29,7114 | | 20,00 | -38,5194 | | -770,39 | |
| 1+080,00 | -47,3273 | | 20,00 | -55,0692 | | -1.101,38 | |
| 1+100,00 | -62,8111 | | 20,00 | -66,9809 | | -1.339,62 | |
| 1+120,00 | -71,1506 | | 20,00 | -74,5543 | | -1.491,09 | |
| 1+140,00 | -77,9580 | | 20,00 | -75,0134 | | -1.500,27 | |
| 1+160,00 | -72,0687 | | 10,00 | -66,0855 | | -660,85 | |
| 1+170,00 | -60,1022 | | 10,00 | -50,7053 | | -507,05 | |
| 1+180,00 | -41,3084 | | 20,00 | -41,1717 | | -823,43 | |
| 1+200,00 | -41,0349 | | 20,00 | -40,9390 | | -818,78 | |
| 1+220,00 | -40,8430 | | 20,00 | -53,1559 | | -1.063,12 | |
| 1+240,00 | -65,4687 | | 20,00 | -61,4730 | | -1.229,46 | |
| 1+260,00 | -57,4772 | | 20,00 | -50,7692 | | -1.015,38 | |
| 1+280,00 | -44,0611 | | 20,00 | -36,3195 | | -726,39 | |
| 1+300,00 | -28,5778 | | 20,00 | -21,6066 | | -432,13 | |
| 1+320,00 | -14,6354 | | 20,00 | -11,4631 | | -229,26 | |
| 1+340,00 | -8,2907 | | 20,00 | -8,0161 | | -160,32 | |
| 1+360,00 | -7,7414 | | 20,00 | -7,6219 | | -152,44 | |
| 1+380,00 | -7,5023 | | 20,00 | -7,2645 | | -145,29 | |
| 1+400,00 | -7,0267 | | 20,00 | -9,6239 | | -192,48 | |
| 1+420,00 | -12,2210 | | 20,00 | -14,6488 | | -292,98 | |
| 1+440,00 | -17,0766 | | 20,00 | -16,5623 | | -331,25 | |
| 1+460,00 | -16,0480 | | 20,00 | -16,3360 | | -326,72 | |
| 1+480,00 | -16,6239 | | 20,00 | -14,8379 | | -296,76 | |
| 1+500,00 | -13,0519 | | 20,00 | -10,9088 | | -218,18 | |
| 1+520,00 | -8,7656 | | 20,00 | -6,8275 | | -136,55 | |
| 1+540,00 | -4,8894 | | 18,00 | -3,0115 | 0,3768 | -54,21 | |
| 1+558,00 | -1,1336 | 0,7535 | 2,00 | -0,5668 | 0,9646 | -1,13 | 1,93 |
| 1+560,00 | | 1,1757 | 20,00 | | 1,4818 | | 29,64 |
| 1+580,00 | | 1,7878 | 20,00 | | 1,6765 | | 33,53 |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 01 - ACCESO 3 de MAYO Tramo: 0 -4280

**Tramo:** -4+280,00

**Tipo:** VOLUMEN MOVIMIENTO DE SUELO

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion | Terraplén | | Excavación | Terraplén | Excavación | Terraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 1+600,00 | | 1,5652 | 20,00 | | 1,9138 | | 38,28 |
| 1+620,00 | | 2,2623 | 20,00 | | 2,3432 | | 46,86 |
| 1+640,00 | | 2,4240 | 20,00 | | 1,9565 | | 39,13 |
| 1+660,00 | | 1,4890 | 20,00 | -3,4592 | 0,7445 | -69,18 | |
| 1+680,00 | -6,9183 | | 20,00 | -9,5674 | | -191,35 | |
| 1+700,00 | -12,2164 | | 20,00 | -12,1111 | | -242,22 | |
| 1+720,00 | -12,0057 | | 20,00 | -12,0391 | | -240,78 | |
| 1+740,00 | -12,0724 | | 20,00 | -14,7491 | | -294,98 | |
| 1+760,00 | -17,4257 | | 20,00 | -20,6491 | | -412,98 | |
| 1+780,00 | -23,8725 | | 20,00 | -22,5262 | | -450,52 | |
| 1+800,00 | -21,1798 | | 20,00 | -45,4984 | | -909,97 | |
| 1+820,00 | -69,8169 | | 20,00 | -63,1947 | | -1.263,89 | |
| 1+840,00 | -56,5725 | | 20,00 | -52,0233 | | -1.040,47 | |
| 1+860,00 | -47,4740 | | 20,00 | -42,1700 | | -843,40 | |
| 1+880,00 | -36,8659 | | 20,00 | -34,2798 | | -685,60 | |
| 1+900,00 | -31,6937 | | 20,00 | -29,1234 | | -582,47 | |
| 1+920,00 | -26,5531 | | 20,00 | -25,3339 | | -506,68 | |
| 1+940,00 | -24,1147 | | 20,00 | -21,4523 | | -429,05 | |
| 1+960,00 | -18,7899 | | 20,00 | -16,6672 | | -333,34 | |
| 1+980,00 | -14,5445 | | 20,00 | -13,7999 | | -276,00 | |
| 2+000,00 | -13,0553 | | 20,00 | -12,7582 | | -255,16 | |
| 2+020,00 | -12,4611 | | 20,00 | -10,3820 | | -207,64 | |
| 2+040,00 | -8,3029 | | 20,00 | -8,5613 | | -171,23 | |
| 2+060,00 | -8,8196 | | 20,00 | -7,7013 | | -154,03 | |
| 2+080,00 | -6,5830 | | 20,00 | -5,5297 | 0,0211 | -110,59 | |
| 2+100,00 | -4,4763 | 0,0421 | 20,00 | -3,6507 | 0,0240 | -73,01 | 0,48 |
| 2+120,00 | -2,8251 | 0,0059 | 20,00 | -1,6083 | 1,3887 | -32,17 | 27,77 |
| 2+140,00 | -0,3914 | 2,7714 | 20,00 | -0,1957 | 5,9754 | -3,91 | 119,51 |
| 2+160,00 | | 9,1793 | 20,00 | | 6,7675 | | 135,35 |
| 2+180,00 | | 4,3557 | 20,00 | | 3,9509 | | 79,02 |
| 2+200,00 | | 3,5460 | 20,00 | -1,1260 | 2,5331 | -22,52 | 50,66 |
| 2+220,00 | -2,2519 | 1,5202 | 20,00 | -3,5244 | 0,7601 | -70,49 | 15,20 |
| 2+240,00 | -4,7968 | | 20,00 | -5,1446 | | -102,89 | |
| 2+260,00 | -5,4924 | | 20,00 | -6,2233 | | -124,47 | |
| 2+280,00 | -6,9541 | | 20,00 | -6,6854 | | -133,71 | |
| 2+300,00 | -6,4166 | | 20,00 | -6,2888 | | -125,78 | |
| 2+320,00 | -6,1609 | | 20,00 | -5,9345 | | -118,69 | |
| 2+340,00 | -5,7081 | | 20,00 | -4,9321 | | -98,64 | |
| 2+360,00 | -4,1560 | | 20,00 | -3,6509 | | -73,02 | |
| 2+380,00 | -3,1458 | | 20,00 | -3,2473 | | -64,95 | |
| 2+400,00 | -3,3488 | | 20,00 | -4,3957 | | -87,91 | |
| 2+420,00 | -5,4426 | | 20,00 | -7,8474 | | -156,95 | |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 01 - ACCESO 3 de MAYO Tramo: 0 -4280

**Tramo:** -4+280,00

**Tipo:** VOLUMEN MOVIMIENTO DE SUELO

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion | Terraplén | | Excavación | Terraplén | Excavación | Terraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 2+440,00 | -10,2522 | | 20,00 | -10,7571 | | -215,14 | |
| 2+460,00 | -11,2620 | | 20,00 | -12,1654 | | -243,31 | |
| 2+480,00 | -13,0688 | | 20,00 | -12,5180 | | -250,36 | |
| 2+500,00 | -11,9672 | | 20,00 | -11,7255 | | -234,51 | |
| 2+520,00 | -11,4838 | | 20,00 | -10,7330 | | -214,66 | |
| 2+540,00 | -9,9821 | | 20,00 | -9,4708 | | -189,42 | |
| 2+560,00 | -8,9594 | | 20,00 | -6,3148 | 0,0003 | -126,30 | |
| 2+580,00 | -3,6702 | 0,0005 | 20,00 | -3,3592 | 0,3149 | -67,18 | 6,30 |
| 2+600,00 | -3,0481 | 0,6292 | 20,00 | -1,8930 | 1,2317 | -37,86 | 24,63 |
| 2+620,00 | -0,7378 | 1,8341 | 20,00 | -0,3689 | 2,5132 | -7,38 | 50,26 |
| 2+640,00 | | 3,1922 | 20,00 | | 2,8123 | | 56,25 |
| 2+660,00 | | 2,4323 | 20,00 | -1,2789 | 1,7514 | -25,58 | 35,03 |
| 2+680,00 | -2,5577 | 1,0705 | 20,00 | -4,4985 | | -89,97 | |
| 2+700,00 | -6,4392 | | 20,00 | -9,6340 | | -192,68 | |
| 2+720,00 | -12,8288 | | 20,00 | -14,3588 | | -287,18 | |
| 2+740,00 | -15,8887 | | 20,00 | -17,5920 | | -351,84 | |
| 2+760,00 | -19,2952 | | 20,00 | -19,3959 | | -387,92 | |
| 2+780,00 | -19,4966 | | 20,00 | -19,1307 | | -382,61 | |
| 2+800,00 | -18,7647 | | 20,00 | -15,4612 | | -309,22 | |
| 2+820,00 | -12,1576 | | 20,00 | -7,7711 | 0,2363 | -155,42 | |
| 2+840,00 | -3,3846 | 0,4726 | 20,00 | -1,6923 | 2,4643 | -33,85 | 49,29 |
| 2+860,00 | | 4,4560 | 20,00 | | 7,5799 | | 151,60 |
| 2+880,00 | | 10,7038 | 20,00 | | 15,5095 | | 310,19 |
| 2+900,00 | | 20,3151 | 20,00 | | 27,9619 | | 559,24 |
| 2+920,00 | | 35,6086 | 20,00 | | 25,6894 | | 513,79 |
| 2+940,00 | | 15,7701 | 20,00 | | 15,2418 | | 304,84 |
| 2+960,00 | | 14,7135 | 20,00 | | 9,3055 | | 186,11 |
| 2+980,00 | | 3,8974 | 20,00 | -0,3414 | 2,3360 | -6,83 | 46,72 |
| 3+000,00 | -0,6827 | 0,7746 | 20,00 | -3,1041 | | -62,08 | |
| 3+020,00 | -5,5255 | | 20,00 | -4,6093 | | -92,19 | |
| 3+040,00 | -3,6931 | | 20,00 | -2,5830 | 0,0633 | -51,66 | |
| 3+060,00 | -1,4729 | 0,1266 | 20,00 | -0,7365 | 1,9989 | -14,73 | 39,98 |
| 3+080,00 | | 3,8711 | 20,00 | | 6,0063 | | 120,13 |
| 3+100,00 | | 8,1414 | 20,00 | | 9,3162 | | 186,32 |
| 3+120,00 | | 10,4909 | 20,00 | | 9,3611 | | 187,22 |
| 3+140,00 | | 8,2313 | 20,00 | | 6,5274 | | 130,55 |
| 3+160,00 | | 4,8235 | 20,00 | | 6,3145 | | 126,29 |
| 3+180,00 | | 7,8054 | 20,00 | | 10,3326 | | 206,65 |
| 3+200,00 | | 12,8597 | 20,00 | | 13,5965 | | 271,93 |
| 3+220,00 | | 14,3333 | 20,00 | | 13,4692 | | 269,38 |
| 3+240,00 | | 12,6050 | 20,00 | | 12,1217 | | 242,43 |
| 3+260,00 | | 11,6384 | 20,00 | | 12,3260 | | 246,52 |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 01 - ACCESO 3 de MAYO Tramo: 0 -4280

**Tramo:** -4+280,00

**Tipo:** VOLUMEN MOVIMIENTO DE SUELO

**Volúmen:** Total ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion | Terraplén | | Excavación | Terraplén | Excavación | Terraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 3+280,00 | | 13,0136 | 20,00 | | 14,9913 | | 299,83 |
| 3+300,00 | | 16,9689 | 20,00 | | 12,4884 | | 249,77 |
| 3+320,00 | | 8,0079 | 20,00 | | 7,1227 | | 142,45 |
| 3+340,00 | | 6,2374 | 20,00 | | 5,6237 | | 112,47 |
| 3+360,00 | | 5,0099 | 20,00 | | 5,3412 | | 106,82 |
| 3+380,00 | | 5,6725 | 20,00 | | 5,7996 | | 115,99 |
| 3+400,00 | | 5,9267 | 20,00 | | 4,9512 | | 99,02 |
| 3+420,00 | | 3,9756 | 20,00 | -0,4835 | 2,3044 | -9,67 | 46,09 |
| 3+440,00 | -0,9670 | 0,6331 | 20,00 | -3,2141 | 0,3166 | -64,28 | |
| 3+460,00 | -5,4611 | | 20,00 | -7,8379 | | -156,76 | |
| 3+480,00 | -10,2147 | | 20,00 | -11,8323 | | -236,65 | |
| 3+500,00 | -13,4499 | | 20,00 | -14,6682 | | -293,36 | |
| 3+520,00 | -15,8864 | | 20,00 | -16,1395 | | -322,79 | |
| 3+540,00 | -16,3925 | | 20,00 | -16,7428 | | -334,86 | |
| 3+560,00 | -17,0930 | | 20,00 | -17,4757 | | -349,51 | |
| 3+580,00 | -17,8583 | | 20,00 | -19,0659 | | -381,32 | |
| 3+600,00 | -20,2734 | | 20,00 | -19,8355 | | -396,71 | |
| 3+620,00 | -19,3975 | | 20,00 | -14,9504 | | -299,01 | |
| 3+640,00 | -10,5032 | | 20,00 | -5,7430 | 0,6262 | -114,86 | |
| 3+660,00 | -0,9827 | 1,2523 | 20,00 | -0,4914 | 4,5549 | -9,83 | 91,10 |
| 3+680,00 | | 7,8574 | 20,00 | | 12,9172 | | 258,34 |
| 3+700,00 | | 17,9770 | 20,00 | | 22,5661 | | 451,32 |
| 3+720,00 | | 27,1552 | 20,00 | | 19,5640 | | 391,28 |
| 3+740,00 | | 11,9727 | 20,00 | -0,7573 | 7,2125 | -15,15 | 144,25 |
| 3+760,00 | -1,5146 | 2,4523 | 20,00 | -4,3100 | 1,2262 | -86,20 | |
| 3+780,00 | -7,1054 | | 20,00 | -13,4576 | | -269,15 | |
| 3+800,00 | -19,8097 | | 20,00 | -22,0964 | | -441,93 | |
| 3+820,00 | -24,3831 | | 20,00 | -24,4425 | | -488,85 | |
| 3+840,00 | -24,5019 | | 20,00 | -25,3112 | | -506,22 | |
| 3+860,00 | -26,1204 | | 20,00 | -24,6830 | | -493,66 | |
| 3+880,00 | -23,2456 | | 20,00 | -19,3294 | | -386,59 | |
| 3+900,00 | -15,4131 | | 20,00 | -10,6253 | 0,0009 | -212,51 | |
| 3+920,00 | -5,8375 | 0,0018 | 20,00 | -2,9188 | 1,4035 | -58,38 | 28,07 |
| 3+940,00 | | 2,8052 | 20,00 | | 6,7342 | | 134,68 |
| 3+960,00 | | 10,6631 | 20,00 | | 12,6730 | | 253,46 |
| 3+980,00 | | 14,6829 | 20,00 | | 19,2583 | | 385,17 |
| 4+000,00 | | 23,8336 | 20,00 | | 19,5632 | | 391,26 |
| 4+020,00 | | 15,2928 | 20,00 | | 12,5562 | | 251,12 |
| 4+040,00 | | 9,8196 | 20,00 | -0,0038 | 6,1300 | -0,08 | 122,60 |
| 4+060,00 | -0,0076 | 2,4404 | 20,00 | -3,1138 | 1,2202 | -62,28 | |
| 4+080,00 | -6,2200 | | 20,00 | -7,2982 | | -145,96 | |
| 4+100,00 | -8,3764 | | 20,00 | -10,2943 | | -205,89 | |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 01 - ACCESO 3 de MAYO Tramo: 0 -4280

**Tramo:** -4+280,00

**Tipo:** VOLUMEN MOVIMIENTO DE SUELO

**Volúmen:** **Total** ⇐

Banquina Izquierda

Banquina Derecha

| Progresiva | Areas | | Distancia | Areas Medias | | Volumen | |
|---|---|---|---|---|---|---|---|
| | Excavacion | Terraplén | | Excavación | Terraplén | Excavación | Terraplén |
| m. | m² | m² | m. | m² | m² | m³ | m³ |
| 4+120,00 | -12,2122 | | 20,00 | -10,1806 | 0,0320 | -203,61 | |
| 4+140,00 | -8,1489 | 0,0640 | 20,00 | -7,9565 | 0,0320 | -159,13 | 0,64 |
| 4+160,00 | -7,7641 | | 20,00 | -7,1356 | 0,0079 | -142,71 | 0,16 |
| 4+180,00 | -6,5071 | 0,0157 | 20,00 | -6,5833 | 0,2069 | -131,67 | 4,14 |
| 4+200,00 | -6,6594 | 0,3980 | 20,00 | -7,2899 | 0,4559 | -145,80 | 9,12 |
| 4+220,00 | -7,9204 | 0,5138 | 20,00 | -6,2372 | 0,2569 | -124,74 | 5,14 |
| 4+240,00 | -4,5540 | | 20,00 | -5,8014 | 0,8179 | -116,03 | 16,36 |
| 4+260,00 | -7,0488 | 1,6358 | 20,00 | -8,8243 | 0,8179 | -176,49 | 16,36 |
| 4+280,00 | -10,5998 | | | | | | |
| **Totales:** | | | 4.280,00 ml | | | -46.040,97 m³ | 41.134,03 m³ |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 01 - ACCESO 3 DE MAYO 0+00 - 0+520

**Tramo:** 0+120,00 -0+520,00

**Tipo:** Excavacion en Roca

**Volúmen:** Excavacion en Roca 6.707,37 m³

| Progresiva m. | Areas Excavación en roca m² | Areas Terraplén m² | Distancia m. | Areas Medias Excavación m² | Areas Medias Terraplén m² | Volumen Excavación en roca m³ | Volumen Terraplén m³ |
|---|---|---|---|---|---|---|---|
| 0+120,00 | 11,8250 | | 20,00 | 14,2270 | | 284,54 | |
| 0+140,00 | 16,6290 | | 20,00 | 18,2105 | | 364,21 | |
| 0+160,00 | 19,7920 | | 20,00 | 16,9770 | | 339,54 | |
| 0+180,00 | 14,1620 | | 20,00 | 16,2780 | | 325,56 | |
| 0+200,00 | 18,3940 | | 20,00 | 19,4475 | | 388,95 | |
| 0+220,00 | 20,5010 | | 20,00 | 20,1070 | | 402,14 | |
| 0+240,00 | 19,7130 | | 20,00 | 19,2585 | | 385,17 | |
| 0+260,00 | 18,8040 | | 20,00 | 18,4140 | | 368,28 | |
| 0+280,00 | 18,0240 | | 20,00 | 15,9610 | | 319,22 | |
| 0+300,00 | 13,8980 | | 20,00 | 14,0765 | | 281,53 | |
| 0+320,00 | 14,2550 | | 20,00 | 15,2370 | | 304,74 | |
| 0+340,00 | 16,2190 | | 20,00 | 16,8180 | | 336,36 | |
| 0+360,00 | 17,4170 | | 20,00 | 15,5415 | | 310,83 | |
| 0+380,00 | 13,6660 | | 20,00 | 10,6750 | | 213,50 | |
| 0+400,00 | 7,6840 | | 20,00 | 9,9980 | | 199,96 | |
| 0+420,00 | 12,3120 | | 20,00 | 14,3325 | | 286,65 | |
| 0+440,00 | 16,3530 | | 20,00 | 19,0440 | | 380,88 | |
| 0+460,00 | 21,7350 | | 20,00 | 23,3375 | | 466,75 | |
| 0+480,00 | 24,9400 | | 20,00 | 21,6815 | | 433,63 | |
| 0+500,00 | 18,4230 | | 20,00 | 15,7465 | | 314,93 | |
| 0+520,00 | 13,0700 | | | | | | |
| **Totales:** | | | 400,00 ml | | | 6.707,37 m³ | |

**Planilla de Volumen de Movimiento de Suelo**

**Obra:** TRAMO 01 - ACCESO 3 DE MAYO 0+00 - 4+280

**Tramo:** 0+980,00 -1+240,00

**Tipo:** Excavacion en Roca

**Volúmen:** Excavacion en Roca 10.852,12 m³

| Progresiva m. | Areas Excavación en roca m² | Areas Terraplén m² | Distancia m. | Areas Medias Excavación m² | Areas Medias Terraplén m² | Volumen Excavación en roca m³ | Volumen Terraplén m³ |
|---|---|---|---|---|---|---|---|
| 0+980,00 | | | 20,00 | 1,2095 | | 24,19 | |
| 1+000,00 | 2,4190 | | 20,00 | 3,0185 | | 60,37 | |
| 1+020,00 | 3,6180 | | 20,00 | 10,7661 | | 215,32 | |
| 1+040,00 | 17,9142 | | 20,00 | 23,8128 | | 476,26 | |
| 1+060,00 | 29,7114 | | 20,00 | 38,5194 | | 770,39 | |
| 1+080,00 | 47,3273 | | 20,00 | 55,0692 | | 1.101,38 | |
| 1+100,00 | 62,8111 | | 20,00 | 66,9809 | | 1.339,62 | |
| 1+120,00 | 71,1506 | | 20,00 | 74,5543 | | 1.491,09 | |
| 1+140,00 | 77,9580 | | 20,00 | 75,0134 | | 1.500,27 | |
| 1+160,00 | 72,0687 | | 10,00 | 66,0855 | | 660,85 | |
| 1+170,00 | 60,1022 | | 10,00 | 50,7053 | | 507,05 | |
| 1+180,00 | 41,3084 | | 20,00 | 41,1717 | | 823,43 | |
| 1+200,00 | 41,0349 | | 20,00 | 40,9390 | | 818,78 | |
| 1+220,00 | 40,8430 | | 20,00 | 53,1559 | | 1.063,12 | |
| 1+240,00 | 65,4687 | | | | | | |
| **Totales:** | | | 260,00 ml | | | 10.852,12 m³ | |