



Comune di Trani

Regione Puglia



# OPERE DI MESSA IN SICUREZZA DEI LOTTI I, II, III DISCARICA PER RSU SITA IN TRANI E DENOMINATA "PURO VECCHIO"

CIG: 7060424E30

## PROGETTO ESECUTIVO

### COMMITTENTE:

AZIENDA MUNICIPALIZZATA IGIENE URBANA  
Comune di Trani  
Via Barletta, 161 - Trani  
P.IVA 05487980723



### PROGETTO:

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Prof. Ing. Eligio ROMANAZZI  
Dott. Ing. Giovanni F. BOSCIA  
Dott. Ing. Sebanino GIOTTA  
Dott. Ing. Fabio PACCAPELO



Ing. Federico Cangialosi

Ing. Gianluca Intini

Dott. geol. Vito Specchio

Ing. Vincenzo Catalucci



*Vito Specchio*

### ALLEGATO

# EG.4.6.2

EG.4 - RACCOLTA E SMALTIMENTO ACQUE METEORICHE

**RECAPITO FINALE - VASCA DI LAMINAZIONE -  
TABELLE COORDINATE E VOLUMI**

SCALA:

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DATA: Aprile 2018

| AGGIORNAMENTO | DATA | DESCRIZIONE |
|---------------|------|-------------|
|               |      |             |
|               |      |             |
|               |      |             |

| COORDINATE CARTESIANE |       |        |            |             |        | Pagina Nr. 1 |
|-----------------------|-------|--------|------------|-------------|--------|--------------|
| Num.                  | Punto | Codice | COORDINATE |             |        | Descrizione  |
|                       |       |        | E          | N           | Quota  |              |
| 1                     | 1     |        | 613659,650 | 4568284,350 | 53,840 |              |
| 2                     | 2     |        | 613669,950 | 4568282,200 | 54,340 |              |
| 3                     | 3     |        | 613699,150 | 4568267,200 | 55,610 |              |
| 4                     | 4     |        | 613706,830 | 4568257,650 | 56,060 |              |
| 5                     | 5     |        | 613704,710 | 4568244,410 | 56,300 |              |
| 6                     | 6     |        | 613665,720 | 4568186,370 | 53,370 |              |
| 7                     | 7     |        | 613653,670 | 4568179,480 | 52,560 |              |
| 8                     | 8     |        | 613642,960 | 4568182,620 | 52,570 |              |
| 9                     | 9     |        | 613628,230 | 4568193,370 | 52,420 |              |
| 10                    | 10    |        | 613621,860 | 4568206,570 | 52,750 |              |
| 11                    | 11    |        | 613625,700 | 4568216,600 | 52,010 |              |
| 12                    | 12    |        | 613630,100 | 4568224,180 | 51,650 |              |
| 13                    | 13    |        | 613626,330 | 4568234,350 | 51,660 |              |
| 14                    | 14    |        | 613621,600 | 4568240,530 | 51,570 |              |
| 15                    | 15    |        | 613618,180 | 4568253,590 | 51,490 |              |
| 16                    | 16    |        | 613627,910 | 4568268,360 | 51,660 |              |
| 17                    | 17    |        | 613651,270 | 4568281,790 | 53,160 |              |
| 18                    | 18    |        | 613658,906 | 4568276,576 | 50,000 |              |
| 19                    | 19    |        | 613666,299 | 4568274,285 | 50,000 |              |
| 20                    | 20    |        | 613691,273 | 4568258,912 | 50,000 |              |
| 21                    | 21    |        | 613693,965 | 4568255,011 | 50,000 |              |
| 22                    | 22    |        | 613692,718 | 4568248,682 | 50,000 |              |
| 23                    | 23    |        | 613660,534 | 4568190,864 | 50,000 |              |
| 24                    | 24    |        | 613652,720 | 4568185,099 | 50,000 |              |
| 25                    | 25    |        | 613645,226 | 4568187,310 | 50,000 |              |
| 26                    | 26    |        | 613632,132 | 4568196,540 | 50,000 |              |
| 27                    | 27    |        | 613627,589 | 4568207,149 | 50,000 |              |
| 28                    | 28    |        | 613629,456 | 4568215,168 | 50,000 |              |
| 29                    | 29    |        | 613633,672 | 4568224,032 | 50,000 |              |
| 30                    | 30    |        | 613629,259 | 4568236,004 | 50,000 |              |
| 31                    | 31    |        | 613624,456 | 4568241,987 | 50,000 |              |
| 32                    | 32    |        | 613621,420 | 4568253,045 | 50,000 |              |
| 33                    | 33    |        | 613630,129 | 4568265,728 | 50,000 |              |
| 34                    | 34    |        | 613653,126 | 4568275,747 | 50,000 |              |

| TRIANGOLI E VOLUMI ELABORATI |               |           |         |         |                 |           |         |         |               |           |         |         | Recapito finale- Vasca di laminazione scavo |               |          |         | Pagina Nr. 1 |  |
|------------------------------|---------------|-----------|---------|---------|-----------------|-----------|---------|---------|---------------|-----------|---------|---------|---|---------------|----------|---------|--------------|--|
| No.                          | PRIMO VERTICE |           |         |         | SECONDO VERTICE |           |         |         | TERZO VERTICE |           |         |         | Area  | Volumi Prismi |          | Volumi  |              |  |
| Trian.                       | E             | N         | Quota 1 | Quota 2 | E               | N         | Quota 1 | Quota 2 | E             | N         | Quota 1 | Quota 2 | Piana                                       | Prisma 1      | Prisma 2 | Sterro  | Riporto      |  |
| A Riportare                  |               |           |         |         |                 |           |         |         |               |           |         |         |   |               |          |         |              |  |
| 1                            | 613618,180    | 568253,59 | 51,490  | 51,490  | 613621,420      | 568253,04 | 50,000  | 51,553  | 613621,600    | 568240,53 | 51,570  | 51,570  | 20,225                                      | 1031,892      | 1042,362 | 10,477  |              |  |
| 2                            | 613621,420    | 568253,04 | 50,000  | 51,553  | 613623,073      | 568247,02 | 50,000  | 51,591  | 613621,600    | 568240,53 | 51,570  | 51,570  | 9,802                                       | 495,222       | 505,494  | 10,270  |              |  |
| 3                            | 613623,073    | 568247,02 | 50,000  | 51,591  | 613624,456      | 568241,98 | 50,000  | 51,620  | 613621,600    | 568240,53 | 51,570  | 51,570  | 8,202                                       | 414,381       | 423,160  | 8,776   |              |  |
| 4                            | 613621,600    | 568240,53 | 51,570  | 51,570  | 613624,456      | 568241,98 | 50,000  | 51,620  | 613626,330    | 568234,35 | 51,660  | 51,660  | 12,271                                      | 626,754       | 633,380  | 6,626   |              |  |
| 5                            | 613625,700    | 568216,60 | 52,010  | 52,010  | 613626,739      | 568207,06 | 50,408  | 52,178  | 613621,860    | 568206,57 | 52,750  | 52,750  | 23,522                                      | 1216,601      | 1230,479 | 13,877  |              |  |
| 6                            | 613627,589    | 568207,14 | 50,000  | 52,174  | 613626,739      | 568207,06 | 50,408  | 52,178  | 613625,700    | 568216,60 | 52,010  | 52,010  | 4,098                                       | 208,198       | 213,585  | 5,390   |              |  |
| 7                            | 613624,456    | 568241,98 | 50,000  | 51,620  | 613626,563      | 568239,36 | 50,000  | 51,660  | 613626,330    | 568234,35 | 51,660  | 51,660  | 5,587                                       | 282,436       | 288,544  | 6,105   |              |  |
| 8                            | 613626,563    | 568239,36 | 50,000  | 51,660  | 613628,015      | 568237,55 | 50,000  | 51,761  | 613626,330    | 568234,35 | 51,660  | 51,660  | 3,850                                       | 194,640       | 199,030  | 4,388   |              |  |
| 9                            | 613628,015    | 568237,55 | 50,000  | 51,761  | 613628,593      | 568236,83 | 50,000  | 51,799  | 613626,330    | 568234,35 | 51,660  | 51,660  | 1,533                                       | 77,518        | 79,338   | 1,822   |              |  |
| 10                           | 613626,330    | 568234,35 | 51,660  | 51,660  | 613628,593      | 568236,83 | 50,000  | 51,799  | 613629,259    | 568236,00 | 50,000  | 51,814  | 1,765                                       | 89,219        | 91,345   | 2,124   |              |  |
| 11                           | 613627,910    | 568268,36 | 51,660  | 51,660  | 613621,420      | 568253,04 | 50,000  | 51,553  | 613618,180    | 568253,59 | 51,490  | 51,490  | 26,579                                      | 1356,849      | 1370,608 | 13,768  |              |  |
| 12                           | 613627,910    | 568268,36 | 51,660  | 51,660  | 613625,925      | 568259,60 | 50,000  | 51,632  | 613621,420    | 568253,04 | 50,000  | 51,553  | 13,207                                      | 667,637       | 681,658  | 14,014  |              |  |
| 13                           | 613627,910    | 568268,36 | 51,660  | 51,660  | 613627,618      | 568262,07 | 50,000  | 51,660  | 613625,925    | 568259,60 | 50,000  | 51,632  | 4,964                                       | 250,934       | 256,381  | 5,444   |              |  |
| 14                           | 613627,910    | 568268,36 | 51,660  | 51,660  | 613630,129      | 568265,72 | 50,000  | 51,814  | 613627,618    | 568262,07 | 50,000  | 51,660  | 7,362                                       | 372,169       | 380,695  | 8,525   |              |  |
| 15                           | 613625,700    | 568216,60 | 52,010  | 52,010  | 613628,504      | 568211,08 | 50,000  | 52,101  | 613627,589    | 568207,14 | 50,000  | 52,174  | 8,037                                       | 407,218       | 418,670  | 11,453  |              |  |
| 16                           | 613625,700    | 568216,60 | 52,010  | 52,010  | 613629,456      | 568215,16 | 50,000  | 51,947  | 613628,504    | 568211,08 | 50,000  | 52,101  | 8,359                                       | 423,545       | 434,824  | 11,278  |              |  |
| 17                           | 613630,100    | 568224,18 | 51,650  | 51,650  | 613629,456      | 568215,16 | 50,000  | 51,947  | 613625,700    | 568216,60 | 52,010  | 52,010  | 17,386                                      | 890,492       | 901,776  | 11,284  |              |  |
| 18                           | 613621,860    | 568206,57 | 52,750  | 52,750  | 613626,739      | 568207,06 | 50,408  | 52,178  | 613628,230    | 568193,37 | 52,420  | 52,420  | 33,772                                      | 1751,373      | 1771,298 | 19,924  |              |  |
| 19                           | 613628,230    | 568193,37 | 52,420  | 52,420  | 613626,739      | 568207,06 | 50,408  | 52,178  | 613627,589    | 568207,14 | 50,000  | 52,174  | 5,884                                       | 299,728       | 307,463  | 7,740   |              |  |
| 20                           | 613627,589    | 568207,14 | 50,000  | 52,174  | 613632,132      | 568196,54 | 50,000  | 52,352  | 613628,230    | 568193,37 | 52,420  | 52,420  | 27,899                                      | 1417,446      | 1459,536 | 42,100  |              |  |
| 21                           | 613626,330    | 568234,35 | 51,660  | 51,660  | 613629,259      | 568236,00 | 50,000  | 51,814  | 613630,100    | 568224,18 | 51,650  | 51,650  | 18,012                                      | 920,461       | 931,352  | 10,897  |              |  |
| 22                           | 613630,100    | 568224,18 | 51,650  | 51,650  | 613631,536      | 568219,54 | 50,000  | 51,753  | 613629,456    | 568215,16 | 50,000  | 51,947  | 7,965                                       | 402,615       | 412,439  | 9,818   |              |  |
| 23                           | 613630,100    | 568224,18 | 51,650  | 51,650  | 613632,520      | 568221,61 | 50,000  | 51,767  | 613631,536    | 568219,54 | 50,000  | 51,753  | 3,770                                       | 190,566       | 194,990  | 4,423   |              |  |
| 24                           | 613633,672    | 568224,03 | 50,000  | 51,861  | 613632,520      | 568221,61 | 50,000  | 51,767  | 613630,100    | 568224,18 | 51,650  | 51,650  | 4,409                                       | 222,883       | 228,215  | 5,330   |              |  |
| 25                           | 613629,259    | 568236,00 | 50,000  | 51,814  | 613632,389      | 568227,51 | 50,000  | 51,805  | 613630,100    | 568224,18 | 51,650  | 51,650  | 14,934                                      | 754,918       | 772,934  | 18,010  |              |  |
| 26                           | 613632,389    | 568227,51 | 50,000  | 51,805  | 613633,298      | 568225,04 | 50,000  | 51,849  | 613630,100    | 568224,18 | 51,650  | 51,650  | 4,337                                       | 219,245       | 224,527  | 5,281   |              |  |
| 27                           | 613630,100    | 568224,18 | 51,650  | 51,650  | 613633,298      | 568225,04 | 50,000  | 51,849  | 613633,672    | 568224,03 | 50,000  | 51,861  | 1,785                                       | 90,238        | 92,445   | 2,208   |              |  |
| 28                           | 613628,230    | 568193,37 | 52,420  | 52,420  | 613632,132      | 568196,54 | 50,000  | 52,352  | 613642,960    | 568182,62 | 52,570  | 52,570  | 44,320                                      | 2289,734      | 2324,482 | 34,747  |              |  |
| 29                           | 613632,132    | 568196,54 | 50,000  | 52,352  | 613637,983      | 568192,41 | 50,000  | 52,409  | 613642,960    | 568182,62 | 52,570  | 52,570  | 18,399                                      | 935,697       | 964,896  | 29,201  |              |  |
| 30                           | 613637,983    | 568192,41 | 50,000  | 52,409  | 613640,472      | 568190,66 | 50,000  | 52,392  | 613642,960    | 568182,62 | 52,570  | 52,570  | 7,818                                       | 397,610       | 410,122  | 12,507  |              |  |
| 31                           | 613640,472    | 568190,66 | 50,000  | 52,392  | 613645,220      | 568187,31 | 50,000  | 52,603  | 613642,960    | 568182,62 | 52,570  | 52,570  | 14,945                                      | 760,043       | 784,926  | 24,885  |              |  |
| 32                           | 613651,270    | 568281,79 | 53,160  | 53,160  | 613630,129      | 568265,72 | 50,000  | 51,814  | 613627,910    | 568268,36 | 51,660  | 51,660  | 45,642                                      | 2355,449      | 2383,048 | 27,613  |              |  |
| 33                           | 613623,073    | 568247,02 | 50,000  | 51,591  | 613621,420      | 568253,04 | 50,000  | 51,553  | 613625,925    | 568259,60 | 50,000  | 51,632  | 18,983                                      | 949,136       | 979,356  | 30,218  |              |  |
| 34                           | 613624,456    | 568241,98 | 50,000  | 51,620  | 613623,073      | 568247,02 | 50,000  | 51,591  | 613625,925    | 568259,60 | 50,000  | 51,632  | 15,884                                      | 794,197       | 819,839  | 25,642  |              |  |
| 35                           | 613624,456    | 568241,98 | 50,000  | 51,620  | 613625,925      | 568259,60 | 50,000  | 51,632  | 613627,618    | 568262,07 | 50,000  | 51,660  | 13,104                                      | 655,197       | 676,653  | 21,446  |              |  |
| 36                           | 613627,618    | 568262,07 | 50,000  | 51,660  | 613627,223      | 568253,56 | 50,000  | 51,660  | 613624,456    | 568241,98 | 50,000  | 51,620  | 9,481                                       | 474,070       | 489,682  | 15,612  |              |  |
| 37                           | 613627,223    | 568253,56 | 50,000  | 51,660  | 613627,618      | 568262,07 | 50,000  | 51,660  | 613630,129    | 568265,72 | 50,000  | 51,814  | 9,957                                       | 497,851       | 514,891  | 17,036  |              |  |
|                              |               |           |         |         |                 |           |         |         |               |           |         |         | Riporto                                     | 498,046       |          | 510,259 | 0,000        |  |

| TRIANGOLI E VOLUMI ELABORATI |               |           |         |         |                 |           |         |         |               |           |         |         | Recapito finale- Vasca di laminazione scavo |               |           |          | Pagina Nr. 2 |  |
|------------------------------|---------------|-----------|---------|---------|-----------------|-----------|---------|---------|---------------|-----------|---------|---------|---|---------------|-----------|----------|--------------|--|
| No.<br>Trian.                | PRIMO VERTICE |           |         |         | SECONDO VERTICE |           |         |         | TERZO VERTICE |           |         |         | Area<br>Piana                               | Volumi Prismi |           | Volumi   |              |  |
|                              | E             | N         | Quota 1 | Quota 2 | E               | N         | Quota 1 | Quota 2 | E             | N         | Quota 1 | Quota 2 |   | Prisma 1      | Prisma 2  | Sterro   | Riporto      |  |
| A Riportare                  |               |           |         |         |                 |           |         |         |               |           |         |         | 498,046                                     |               |           | 510,259  | 0,000        |  |
| 38                           | 613642,960    | 568182,62 | 52,570  | 52,570  | 613645,226      | 568187,31 | 50,000  | 52,603  | 613652,720    | 568185,09 | 50,000  | 52,904  | 20,078                                      | 1021,125      | 1057,983  | 36,863   |              |  |
| 39                           | 613651,270    | 568281,79 | 53,160  | 53,160  | 613646,598      | 568272,90 | 50,000  | 52,879  | 613630,129    | 568265,72 | 50,000  | 51,814  | 56,419                                      | 2880,388      | 2968,647  | 88,239   |              |  |
| 40                           | 613651,270    | 568281,79 | 53,160  | 53,160  | 613653,126      | 568275,74 | 50,000  | 53,287  | 613646,598    | 568272,90 | 50,000  | 52,879  | 22,364                                      | 1141,736      | 1187,700  | 45,958   |              |  |
| 41                           | 613642,960    | 568182,62 | 52,570  | 52,570  | 613652,863      | 568184,25 | 50,386  | 52,918  | 613653,670    | 568179,48 | 52,560  | 52,560  | 24,287                                      | 1259,009      | 1279,508  | 20,497   |              |  |
| 42                           | 613652,720    | 568185,09 | 50,000  | 52,904  | 613652,863      | 568184,25 | 50,386  | 52,918  | 613642,960    | 568182,62 | 52,570  | 52,570  | 4,311                                       | 219,778       | 227,589   | 7,813    |              |  |
| 43                           | 613627,589    | 568207,14 | 50,000  | 52,174  | 613628,504      | 568211,08 | 50,000  | 52,101  | 613630,650    | 568206,85 | 50,000  | 52,171  | 6,151                                       | 307,568       | 320,785   | 13,218   |              |  |
| 44                           | 613627,589    | 568207,14 | 50,000  | 52,174  | 613630,650      | 568206,85 | 50,000  | 52,171  | 613632,132    | 568196,54 | 50,000  | 52,352  | 15,567                                      | 778,349       | 813,100   | 34,750   |              |  |
| 45                           | 613628,504    | 568211,08 | 50,000  | 52,101  | 613629,456      | 568215,16 | 50,000  | 51,947  | 613630,650    | 568206,85 | 50,000  | 52,171  | 6,398                                       | 319,900       | 333,163   | 13,263   |              |  |
| 46                           | 613627,223    | 568253,56 | 50,000  | 51,660  | 613626,563      | 568239,36 | 50,000  | 51,660  | 613624,456    | 568241,98 | 50,000  | 51,620  | 15,828                                      | 791,386       | 817,449   | 26,069   |              |  |
| 47                           | 613628,015    | 568237,55 | 50,000  | 51,761  | 613626,563      | 568239,36 | 50,000  | 51,660  | 613627,223    | 568253,56 | 50,000  | 51,660  | 10,908                                      | 545,381       | 563,855   | 18,473   |              |  |
| 48                           | 613628,015    | 568237,55 | 50,000  | 51,761  | 613627,223      | 568253,56 | 50,000  | 51,660  | 613630,129    | 568265,72 | 50,000  | 51,814  | 28,081                                      | 1404,027      | 1453,027  | 49,003   |              |  |
| 49                           | 613630,129    | 568265,72 | 50,000  | 51,814  | 613629,380      | 568240,15 | 50,000  | 51,843  | 613628,015    | 568237,55 | 50,000  | 51,761  | 16,483                                      | 824,133       | 853,901   | 29,788   |              |  |
| 50                           | 613628,593    | 568236,83 | 50,000  | 51,799  | 613628,015      | 568237,55 | 50,000  | 51,761  | 613629,380    | 568240,15 | 50,000  | 51,843  | 1,243                                       | 62,145        | 64,384    | 2,242    |              |  |
| 51                           | 613629,380    | 568240,15 | 50,000  | 51,843  | 613629,306      | 568237,61 | 50,000  | 51,843  | 613628,593    | 568236,83 | 50,000  | 51,799  | 0,876                                       | 43,775        | 45,376    | 1,600    |              |  |
| 52                           | 613628,593    | 568236,83 | 50,000  | 51,799  | 613629,306      | 568237,61 | 50,000  | 51,843  | 613629,259    | 568236,00 | 50,000  | 51,814  | 0,556                                       | 27,797        | 28,808    | 1,011    |              |  |
| 53                           | 613658,906    | 568276,57 | 50,000  | 53,651  | 613653,126      | 568275,74 | 50,000  | 53,287  | 613651,270    | 568281,79 | 53,160  | 53,160  | 18,234                                      | 930,885       | 973,053   | 42,175   |              |  |
| 54                           | 613651,270    | 568281,79 | 53,160  | 53,160  | 613659,422      | 568281,96 | 52,664  | 53,675  | 613658,906    | 568276,57 | 50,000  | 53,651  | 21,936                                      | 1139,369      | 1173,457  | 34,089   |              |  |
| 55                           | 613659,650    | 568284,35 | 53,840  | 53,840  | 613659,422      | 568281,96 | 52,664  | 53,675  | 613651,270    | 568281,79 | 53,160  | 53,160  | 9,685                                       | 515,425       | 518,688   | 3,264    |              |  |
| 56                           | 613652,720    | 568185,09 | 50,000  | 52,904  | 613645,226      | 568187,31 | 50,000  | 52,603  | 613660,534    | 568190,86 | 50,000  | 53,130  | 30,240                                      | 1511,992      | 1599,052  | 87,061   |              |  |
| 57                           | 613652,720    | 568185,09 | 50,000  | 52,904  | 613660,534      | 568190,86 | 50,000  | 53,130  | 613665,720    | 568186,37 | 53,370  | 53,370  | 32,507                                      | 1661,851      | 1727,233  | 65,372   |              |  |
| 58                           | 613653,670    | 568179,48 | 52,560  | 52,560  | 613652,863      | 568184,25 | 50,386  | 52,918  | 613665,720    | 568186,37 | 53,370  | 53,370  | 31,531                                      | 1642,955      | 1669,567  | 26,610   |              |  |
| 59                           | 613665,720    | 568186,37 | 53,370  | 53,370  | 613652,863      | 568184,25 | 50,386  | 52,918  | 613652,720    | 568185,09 | 50,000  | 52,904  | 5,596                                       | 286,825       | 296,966   | 10,145   |              |  |
| 60                           | 613632,132    | 568196,54 | 50,000  | 52,352  | 613636,314      | 568195,70 | 50,000  | 52,354  | 613637,985    | 568192,41 | 50,000  | 52,409  | 6,181                                       | 309,046       | 323,705   | 14,661   |              |  |
| 61                           | 613636,314    | 568195,70 | 50,000  | 52,354  | 613639,083      | 568195,15 | 50,000  | 52,293  | 613640,472    | 568190,66 | 50,000  | 52,392  | 5,832                                       | 291,617       | 305,302   | 13,680   |              |  |
| 62                           | 613636,314    | 568195,70 | 50,000  | 52,354  | 613640,472      | 568190,66 | 50,000  | 52,392  | 613637,985    | 568192,41 | 50,000  | 52,409  | 2,626                                       | 131,324       | 137,588   | 6,263    |              |  |
| 63                           | 613645,226    | 568187,31 | 50,000  | 52,603  | 613640,472      | 568190,66 | 50,000  | 52,392  | 613639,083    | 568195,15 | 50,000  | 52,293  | 8,345                                       | 417,273       | 437,547   | 20,270   |              |  |
| 64                           | 613645,226    | 568187,31 | 50,000  | 52,603  | 613639,083      | 568195,15 | 50,000  | 52,293  | 613660,534    | 568190,86 | 50,000  | 53,130  | 70,931                                      | 3546,556      | 3736,321  | 189,743  |              |  |
| 65                           | 613629,380    | 568240,15 | 50,000  | 51,843  | 613630,129      | 568265,72 | 50,000  | 51,814  | 613646,598    | 568272,90 | 50,000  | 52,879  | 207,919                                     | 10395,927     | 10848,912 | 453,049  |              |  |
| 66                           | 613632,003    | 568240,57 | 50,000  | 52,009  | 613629,306      | 568237,61 | 50,000  | 51,843  | 613629,380    | 568240,15 | 50,000  | 51,843  | 3,312                                       | 165,585       | 171,872   | 6,286    |              |  |
| 67                           | 613632,003    | 568240,57 | 50,000  | 52,009  | 613629,380      | 568240,15 | 50,000  | 51,843  | 613646,598    | 568272,90 | 50,000  | 52,879  | 39,329                                      | 1966,427      | 2054,668  | 88,239   |              |  |
| 68                           | 613632,003    | 568240,57 | 50,000  | 52,009  | 613646,598      | 568272,90 | 50,000  | 52,879  | 613653,126    | 568275,74 | 50,000  | 53,287  | 84,771                                      | 4238,551      | 4469,553  | 231,004  |              |  |
| 69                           | 613629,259    | 568236,00 | 50,000  | 51,814  | 613629,306      | 568237,61 | 50,000  | 51,843  | 613632,003    | 568240,57 | 50,000  | 52,009  | 2,103                                       | 105,146       | 109,118   | 3,969    |              |  |
| 70                           | 613629,456    | 568215,16 | 50,000  | 51,947  | 613631,536      | 568219,54 | 50,000  | 51,753  | 613633,984    | 568211,62 | 50,000  | 51,928  | 13,581                                      | 679,042       | 704,520   | 25,480   |              |  |
| 71                           | 613633,984    | 568211,62 | 50,000  | 51,928  | 613631,536      | 568219,54 | 50,000  | 51,753  | 613632,520    | 568221,61 | 50,000  | 51,767  | 6,428                                       | 321,405       | 333,078   | 11,681   |              |  |
| 72                           | 613633,984    | 568211,62 | 50,000  | 51,928  | 613632,520      | 568221,61 | 50,000  | 51,767  | 613654,700    | 568198,06 | 50,000  | 52,838  | 93,488                                      | 4674,418      | 4878,004  | 203,619  |              |  |
| 73                           | 613633,984    | 568211,62 | 50,000  | 51,928  | 613654,700      | 568198,06 | 50,000  | 52,838  | 613660,534    | 568190,86 | 50,000  | 53,130  | 35,054                                      | 1752,708      | 1844,970  | 92,278   |              |  |
| 74                           | 613632,520    | 568221,61 | 50,000  | 51,767  | 613633,672      | 568224,03 | 50,000  | 51,861  | 613654,700    | 568198,06 | 50,000  | 52,838  | 40,410                                      | 2020,512      | 2107,609  | 87,077   |              |  |
| Riporto                      |               |           |         |         |                 |           |         |         |               |           |         |         | 1497,633                                    |               |           | 2615,061 | 0,000        |  |

| TRIANGOLI E VOLUMI ELABORATI |               |           |         |         |                 |           |         |         |               |           |         |          |               | Recapito finale- Vasca di laminazione scavo |           |          |         | Pagina Nr. 3 |  |
|------------------------------|---------------|-----------|---------|---------|-----------------|-----------|---------|---------|---------------|-----------|---------|----------|---------------|---|-----------|----------|---------|--------------|--|
| No.<br>Trian.                | PRIMO VERTICE |           |         |         | SECONDO VERTICE |           |         |         | TERZO VERTICE |           |         |          | Area<br>Piana | Volumi Prismi                               |           | Volumi   |         |              |  |
|                              | E             | N         | Quota 1 | Quota 2 | E               | N         | Quota 1 | Quota 2 | E             | N         | Quota 1 | Quota 2  |               | Prisma 1                                    | Prisma 2  | Sterro   | Riporto |              |  |
| A Riportare                  |               |           |         |         |                 |           |         |         |               |           |         | 1497,633 |               |   | 2615,061  | 0,000    |         |              |  |
| 75                           | 613630,650    | 568206,85 | 50,000  | 52,171  | 613636,314      | 568195,70 | 50,000  | 52,354  | 613632,132    | 568196,54 | 50,000  | 52,352   | 20,947        | 1047,355                                    | 1095,373  | 48,011   |         |              |  |
| 76                           | 613630,650    | 568206,85 | 50,000  | 52,171  | 613629,456      | 568215,16 | 50,000  | 51,947  | 613633,984    | 568211,62 | 50,000  | 51,928   | 16,709        | 835,446                                     | 869,120   | 33,669   |         |              |  |
| 77                           | 613630,650    | 568206,85 | 50,000  | 52,171  | 613633,984      | 568211,62 | 50,000  | 51,928  | 613639,083    | 568195,15 | 50,000  | 52,293   | 39,634        | 1981,713                                    | 2066,160  | 84,414   |         |              |  |
| 78                           | 613639,083    | 568195,15 | 50,000  | 52,293  | 613636,314      | 568195,70 | 50,000  | 52,354  | 613630,650    | 568206,85 | 50,000  | 52,171   | 13,871        | 693,554                                     | 725,078   | 31,522   |         |              |  |
| 79                           | 613639,083    | 568195,15 | 50,000  | 52,293  | 613633,984      | 568211,62 | 50,000  | 51,928  | 613660,534    | 568190,86 | 50,000  | 53,130   | 165,784       | 8289,182                                    | 8695,407  | 406,176  |         |              |  |
| 80                           | 613669,950    | 568282,20 | 54,340  | 54,340  | 613664,804      | 568276,55 | 50,865  | 54,024  | 613661,197    | 568282,00 | 52,946  | 53,787   | 24,224        | 1277,025                                    | 1309,324  | 32,289   |         |              |  |
| 81                           | 613669,950    | 568282,20 | 54,340  | 54,340  | 613661,197      | 568282,00 | 52,946  | 53,787  | 613659,650    | 568284,35 | 53,840  | 53,840   | 10,398        | 558,477                                     | 561,392   | 2,912    |         |              |  |
| 82                           | 613665,424    | 568275,61 | 50,505  | 54,034  | 613664,804      | 568276,55 | 50,865  | 54,024  | 613669,950    | 568282,20 | 54,340  | 54,340   | 4,185         | 217,191                                     | 226,520   | 9,324    |         |              |  |
| 83                           | 613666,299    | 568274,28 | 50,000  | 54,082  | 613665,424      | 568275,61 | 50,505  | 54,034  | 613669,950    | 568282,20 | 54,340  | 54,340   | 5,882         | 303,579                                     | 318,500   | 14,925   |         |              |  |
| 84                           | 613653,126    | 568275,74 | 50,000  | 53,287  | 613658,906      | 568276,57 | 50,000  | 53,651  | 613663,520    | 568275,14 | 50,000  | 53,945   | 6,045         | 302,260                                     | 324,190   | 21,928   |         |              |  |
| 85                           | 613663,520    | 568275,14 | 50,000  | 53,945  | 613663,062      | 568274,64 | 50,000  | 53,917  | 613653,126    | 568275,74 | 50,000  | 53,287   | 2,747         | 137,326                                     | 147,533   | 10,204   |         |              |  |
| 86                           | 613663,062    | 568274,64 | 50,000  | 53,917  | 613663,520      | 568275,14 | 50,000  | 53,945  | 613664,827    | 568274,74 | 50,000  | 53,994   | 0,421         | 21,040                                      | 22,703    | 1,664    |         |              |  |
| 87                           | 613664,827    | 568274,74 | 50,000  | 53,994  | 613664,640      | 568274,46 | 50,000  | 53,982  | 613663,062    | 568274,64 | 50,000  | 53,917   | 0,231         | 11,549                                      | 12,464    | 0,916    |         |              |  |
| 88                           | 613664,640    | 568274,46 | 50,000  | 53,982  | 613664,827      | 568274,74 | 50,000  | 53,994  | 613666,299    | 568274,28 | 50,000  | 54,082   | 0,243         | 12,141                                      | 13,117    | 0,977    |         |              |  |
| 89                           | 613632,003    | 568240,57 | 50,000  | 52,009  | 613653,126      | 568275,74 | 50,000  | 53,287  | 613663,062    | 568274,64 | 50,000  | 53,917   | 186,394       | 9319,688                                    | 9892,104  | 572,419  |         |              |  |
| 90                           | 613629,259    | 568236,00 | 50,000  | 51,814  | 613632,003      | 568240,57 | 50,000  | 52,009  | 613663,062    | 568274,64 | 50,000  | 53,917   | 24,209        | 1210,444                                    | 1272,903  | 62,464   |         |              |  |
| 91                           | 613629,259    | 568236,00 | 50,000  | 51,814  | 613663,062      | 568274,64 | 50,000  | 53,917  | 613664,640    | 568274,46 | 50,000  | 53,982   | 33,445        | 1672,236                                    | 1780,519  | 108,268  |         |              |  |
| 92                           | 613664,640    | 568274,46 | 50,000  | 53,982  | 613660,146      | 568267,92 | 50,000  | 53,678  | 613629,259    | 568236,00 | 50,000  | 51,814   | 29,318        | 1465,904                                    | 1558,491  | 92,593   |         |              |  |
| 93                           | 613660,146    | 568267,92 | 50,000  | 53,678  | 613664,640      | 568274,46 | 50,000  | 53,982  | 613666,299    | 568274,28 | 50,000  | 54,082   | 5,841         | 292,043                                     | 314,904   | 22,862   |         |              |  |
| 94                           | 613658,906    | 568276,57 | 50,000  | 53,651  | 613659,422      | 568281,96 | 52,664  | 53,675  | 613661,197    | 568282,00 | 52,946  | 53,787   | 4,776         | 247,743                                     | 256,504   | 8,759    |         |              |  |
| 95                           | 613658,906    | 568276,57 | 50,000  | 53,651  | 613661,197      | 568282,00 | 52,946  | 53,787  | 613664,804    | 568276,55 | 50,865  | 54,024   | 16,038        | 822,290                                     | 863,193   | 40,899   |         |              |  |
| 96                           | 613664,804    | 568276,55 | 50,865  | 54,024  | 613663,520      | 568275,14 | 50,000  | 53,945  | 613658,906    | 568276,57 | 50,000  | 53,651   | 4,160         | 209,177                                     | 224,089   | 14,910   |         |              |  |
| 97                           | 613661,197    | 568282,00 | 52,946  | 53,787  | 613659,422      | 568281,96 | 52,664  | 53,675  | 613659,650    | 568284,35 | 53,840  | 53,840   | 2,109         | 112,077                                     | 113,379   | 1,301    |         |              |  |
| 98                           | 613663,520    | 568275,14 | 50,000  | 53,945  | 613664,804      | 568276,55 | 50,865  | 54,024  | 613665,424    | 568275,61 | 50,505  | 54,034   | 1,041         | 52,542                                      | 56,232    | 3,689    |         |              |  |
| 99                           | 613665,424    | 568275,61 | 50,505  | 54,034  | 613664,827      | 568274,74 | 50,000  | 53,994  | 613663,520    | 568275,14 | 50,000  | 53,945   | 0,689         | 34,555                                      | 37,188    | 2,634    |         |              |  |
| 100                          | 613664,827    | 568274,74 | 50,000  | 53,994  | 613665,424      | 568275,61 | 50,505  | 54,034  | 613666,299    | 568274,28 | 50,000  | 54,082   | 0,776         | 38,916                                      | 41,916    | 3,002    |         |              |  |
| 101                          | 613632,389    | 568227,51 | 50,000  | 51,805  | 613629,259      | 568236,00 | 50,000  | 51,814  | 613639,646    | 568238,07 | 50,000  | 52,294   | 47,345        | 2367,269                                    | 2460,587  | 93,325   |         |              |  |
| 102                          | 613641,302    | 568227,21 | 50,000  | 52,348  | 613633,298      | 568225,04 | 50,000  | 51,849  | 613632,389    | 568227,51 | 50,000  | 51,805   | 10,855        | 542,760                                     | 564,477   | 21,719   |         |              |  |
| 103                          | 613641,302    | 568227,21 | 50,000  | 52,348  | 613632,389      | 568227,51 | 50,000  | 51,805  | 613639,646    | 568238,07 | 50,000  | 52,294   | 48,161        | 2408,071                                    | 2511,570  | 103,502  |         |              |  |
| 104                          | 613641,302    | 568227,21 | 50,000  | 52,348  | 613639,646      | 568238,07 | 50,000  | 52,294  | 613692,718    | 568248,68 | 50,000  | 55,585   | 297,013       | 14850,666                                   | 15863,184 | 1012,490 |         |              |  |
| 105                          | 613633,672    | 568224,03 | 50,000  | 51,861  | 613633,298      | 568225,04 | 50,000  | 51,849  | 613641,302    | 568227,21 | 50,000  | 52,348   | 4,468         | 223,391                                     | 232,413   | 9,023    |         |              |  |
| 106                          | 613639,646    | 568238,07 | 50,000  | 52,294  | 613629,259      | 568236,00 | 50,000  | 51,814  | 613660,146    | 568267,92 | 50,000  | 53,678   | 133,742       | 6687,082                                    | 7034,186  | 347,068  |         |              |  |
| 107                          | 613639,646    | 568238,07 | 50,000  | 52,294  | 613660,146      | 568267,92 | 50,000  | 53,678  | 613666,299    | 568274,28 | 50,000  | 54,082   | 26,645        | 1332,227                                    | 1421,522  | 89,304   |         |              |  |
| 108                          | 613639,646    | 568238,07 | 50,000  | 52,294  | 613666,299      | 568274,28 | 50,000  | 54,082  | 613692,718    | 568248,68 | 50,000  | 55,585   | 819,462       | 40973,077                                   | 44240,270 | 3267,159 |         |              |  |
| 109                          | 613666,299    | 568274,28 | 50,000  | 54,082  | 613691,273      | 568258,91 | 50,000  | 55,542  | 613692,718    | 568248,68 | 50,000  | 55,585   | 116,635       | 5831,751                                    | 6423,052  | 591,339  |         |              |  |
| 110                          | 613691,273    | 568258,91 | 50,000  | 55,542  | 613693,963      | 568255,01 | 50,000  | 55,689  | 613692,718    | 568248,68 | 50,000  | 55,585   | 10,951        | 547,555                                     | 608,940   | 61,391   |         |              |  |
| 111                          | 613691,273    | 568258,91 | 50,000  | 55,542  | 613666,299      | 568274,28 | 50,000  | 54,082  | 613669,950    | 568282,20 | 54,340  | 54,340   | 126,898       | 6528,480                                    | 6935,569  | 407,089  |         |              |  |
| Riporto                      |               |           |         |         |                 |           |         |         |               |           |         | 3759,923 |               |   | 10251,201 | 0,000    |         |              |  |

| TRIANGOLI E VOLUMI ELABORATI |               |           |         |         |                 |           |         |         |               |           |         |         | Recapito finale- Vasca di laminazione scavo |               |           |          | Pagina Nr. 4 |       |
|------------------------------|---------------|-----------|---------|---------|-----------------|-----------|---------|---------|---------------|-----------|---------|---------|---|---------------|-----------|----------|--------------|-------|
| No.                          | PRIMO VERTICE |           |         |         | SECONDO VERTICE |           |         |         | TERZO VERTICE |           |         |         | Area  | Volumi Prismi |           | Volumi   |              |       |
| Trian.                       | E             | N         | Quota 1 | Quota 2 | E               | N         | Quota 1 | Quota 2 | E             | N         | Quota 1 | Quota 2 | Piana                                       | Prisma 1      | Prisma 2  | Sterro   | Riporto      |       |
|                              |               |           |         |         |                 |           |         |         |               |           |         |         | A Riportare                                 | 3759,923      |           |          | 10251,201    | 0,000 |
| 112                          | 613694,279    | 568255,75 | 50,340  | 55,712  | 613691,323      | 568258,96 | 50,035  | 55,545  | 613699,150    | 568267,20 | 55,610  | 55,610  | 24,751                                      | 1286,918      | 1376,697  | 89,786   |              |       |
| 113                          | 613691,273    | 568258,91 | 50,000  | 55,542  | 613691,323      | 568258,96 | 50,035  | 55,545  | 613694,279    | 568255,75 | 50,340  | 55,712  | 0,157                                       | 7,880         | 8,741     | 0,859    |              |       |
| 114                          | 613691,273    | 568258,91 | 50,000  | 55,542  | 613694,279      | 568255,75 | 50,340  | 55,712  | 613693,965    | 568255,01 | 50,000  | 55,689  | 1,607                                       | 80,540        | 89,434    | 8,899    |              |       |
| 115                          | 613654,700    | 568198,06 | 50,000  | 52,838  | 613660,888      | 568191,49 | 50,000  | 53,137  | 613660,534    | 568190,86 | 50,000  | 53,130  | 3,127                                       | 156,361       | 165,852   | 9,490    |              |       |
| 116                          | 613692,718    | 568248,68 | 50,000  | 55,585  | 613687,786      | 568239,82 | 50,000  | 55,245  | 613641,302    | 568227,21 | 50,000  | 52,348  | 174,866                                     | 8743,295      | 9511,423  | 768,160  |              |       |
| 117                          | 613654,700    | 568198,06 | 50,000  | 52,838  | 613633,672      | 568224,03 | 50,000  | 51,861  | 613641,302    | 568227,21 | 50,000  | 52,348  | 132,544                                     | 6627,178      | 6938,523  | 311,362  |              |       |
| 118                          | 613654,700    | 568198,06 | 50,000  | 52,838  | 613641,302      | 568227,21 | 50,000  | 52,348  | 613687,786    | 568239,82 | 50,000  | 55,245  | 761,938                                     | 38096,925     | 40746,185 | 2649,220 |              |       |
| 119                          | 613687,786    | 568239,82 | 50,000  | 55,245  | 613660,888      | 568191,49 | 50,000  | 53,137  | 613654,700    | 568198,06 | 50,000  | 52,838  | 237,841                                     | 11892,065     | 12781,591 | 889,477  |              |       |
| 120                          | 613699,150    | 568267,20 | 55,610  | 55,610  | 613691,323      | 568258,96 | 50,035  | 55,545  | 613669,950    | 568282,20 | 54,340  | 54,340  | 178,948                                     | 9543,004      | 9871,672  | 328,724  |              |       |
| 121                          | 613669,950    | 568282,20 | 54,340  | 54,340  | 613691,323      | 568258,96 | 50,035  | 55,545  | 613691,273    | 568258,91 | 50,000  | 55,542  | 1,137                                       | 58,487        | 62,675    | 4,185    |              |       |
| 122                          | 613665,720    | 568186,37 | 53,370  | 53,370  | 613660,534      | 568190,86 | 50,000  | 53,130  | 613660,888    | 568191,49 | 50,000  | 53,137  | 2,442                                       | 124,843       | 129,944   | 5,101    |              |       |
| 123                          | 613689,024    | 568240,15 | 50,461  | 55,322  | 613687,786      | 568239,82 | 50,000  | 55,245  | 613692,718    | 568248,68 | 50,000  | 55,585  | 4,656                                       | 233,535       | 257,889   | 24,376   |              |       |
| 124                          | 613665,720    | 568186,37 | 53,370  | 53,370  | 613660,888      | 568191,49 | 50,000  | 53,137  | 613687,786    | 568239,82 | 50,000  | 55,245  | 185,726                                     | 9494,926      | 10013,844 | 518,952  |              |       |
| 125                          | 613665,720    | 568186,37 | 53,370  | 53,370  | 613687,786      | 568239,82 | 50,000  | 55,245  | 613689,024    | 568240,15 | 50,461  | 55,322  | 29,379                                      | 1506,471      | 1605,439  | 99,049   |              |       |
| 126                          | 613704,710    | 568244,41 | 56,300  | 56,300  | 613692,718      | 568248,68 | 50,000  | 55,585  | 613693,965    | 568255,01 | 50,000  | 55,689  | 40,612                                      | 2115,900      | 2268,521  | 152,620  |              |       |
| 127                          | 613689,024    | 568240,15 | 50,461  | 55,322  | 613692,718      | 568248,68 | 50,000  | 55,585  | 613704,710    | 568244,41 | 56,300  | 56,300  | 59,006                                      | 3083,295      | 3288,755  | 205,459  |              |       |
| 128                          | 613665,720    | 568186,37 | 53,370  | 53,370  | 613689,024      | 568240,15 | 50,461  | 55,322  | 613704,710    | 568244,41 | 56,300  | 56,300  | 372,295                                     | 19872,016     | 20475,259 | 603,102  |              |       |
| 129                          | 613699,150    | 568267,20 | 55,610  | 55,610  | 613701,733      | 568256,60 | 53,660  | 55,931  | 613694,804    | 568255,18 | 50,394  | 55,741  | 38,571                                      | 2052,789      | 2150,734  | 97,929   |              |       |
| 130                          | 613694,804    | 568255,18 | 50,394  | 55,741  | 613694,279      | 568255,75 | 50,340  | 55,712  | 613699,150    | 568267,20 | 55,610  | 55,610  | 4,369                                       | 227,709       | 243,320   | 15,614   |              |       |
| 131                          | 613693,965    | 568255,01 | 50,000  | 55,689  | 613694,279      | 568255,75 | 50,340  | 55,712  | 613694,804    | 568255,18 | 50,394  | 55,741  | 0,282                                       | 14,164        | 15,706    | 1,543    |              |       |
| 132                          | 613706,830    | 568257,65 | 56,060  | 56,060  | 613701,733      | 568256,60 | 53,660  | 55,931  | 613699,150    | 568267,20 | 55,610  | 55,610  | 28,341                                      | 1561,896      | 1583,350  | 21,456   |              |       |
| 133                          | 613694,804    | 568255,18 | 50,394  | 55,741  | 613701,733      | 568256,60 | 53,660  | 55,931  | 613704,710    | 568244,41 | 56,300  | 56,300  | 44,395                                      | 2372,987      | 2485,722  | 112,714  |              |       |
| 134                          | 613693,965    | 568255,01 | 50,000  | 55,689  | 613694,804      | 568255,18 | 50,394  | 55,741  | 613704,710    | 568244,41 | 56,300  | 56,300  | 5,355                                       | 279,714       | 299,414   | 19,697   |              |       |
| 135                          | 613704,710    | 568244,41 | 56,300  | 56,300  | 613701,733      | 568256,60 | 53,660  | 55,931  | 613706,830    | 568257,65 | 56,060  | 56,060  | 32,621                                      | 1805,257      | 1829,951  | 24,695   |              |       |
|                              |               |           |         |         |                 |           |         |         |               |           |         |         | Riporto                                     | 6124,892      |           |          | 17213,670    | 0,000 |

**Recapito finale- Vasca di laminazione scavo**

|                             |              |
|-----------------------------|--------------|
| Superficie :                | 6124,895 mq  |
| Sterro :                    | 17213,670 mc |
| Riporto :                   | 0,000 mc     |
| Volume aggiuntivo :         | 0,000 mc     |
| Area piana di sterro :      | 6124,895 mq  |
| Area piana di riporto :     | 0,000 mq     |
| Area inclinata di sterro :  | 6354,516 mq  |
| Area inclinata di riporto : | 0,000 mq     |