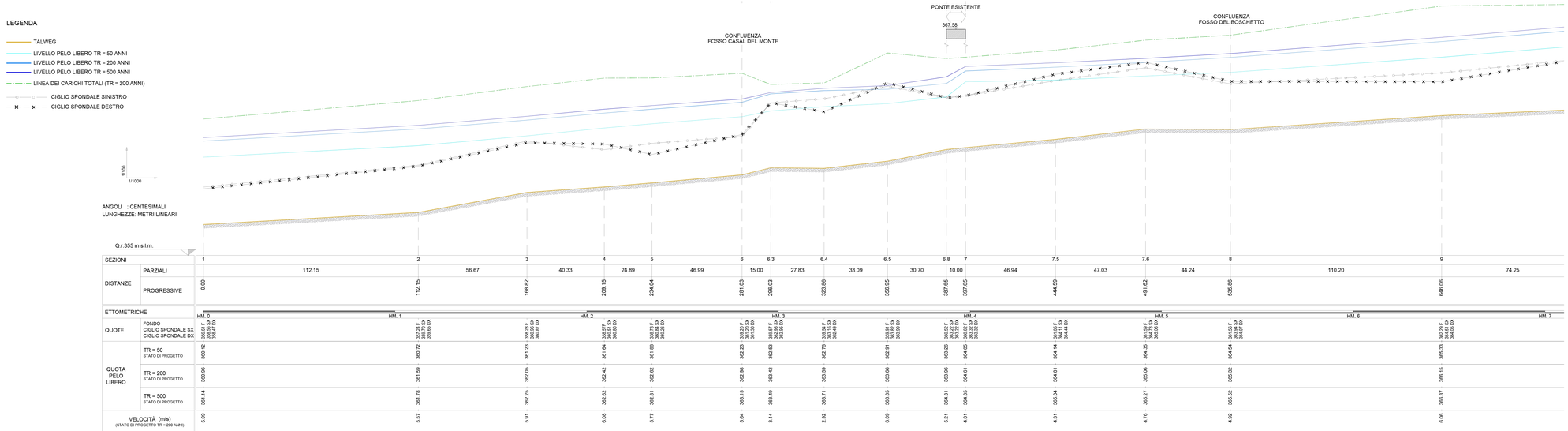
| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETRI IDRAULICI DI PROGETTO | PORTATA TR =50 ANNI - $Q_{50}$ ($m^3/s$) | $Q_{50}$ = 156.83 $m^3/s$ | $Q_{50}$ = 156.91 $m^3/s$ | $Q_{50}$ = 157.01 $m^3/s$ | $Q_{50}$ = 158.57 $m^3/s$ | $Q_{50}$ = 159.37 $m^3/s$ | $Q_{50}$ = 160.01 $m^3/s$ | $Q_{50}$ = 160.01 $m^3/s$ | $Q_{50}$ = 160.01 $m^3/s$ | $Q_{50}$ = 159.67 $m^3/s$ | $Q_{50}$ = 131.94 $m^3/s$ | $Q_{50}$ = 143.73 $m^3/s$ | $Q_{50}$ = 147.86 $m^3/s$ | $Q_{50}$ = 144.45 $m^3/s$ | $Q_{50}$ = 144.62 $m^3/s$ | $Q_{50}$ = 144.64 $m^3/s$ |
| | PORTATA TR =200 ANNI - $Q_{200}$ ($m^3/s$) | $Q_{200}$ = 267.10 $m^3/s$ | $Q_{200}$ = 267.10 $m^3/s$ | $Q_{200}$ = 267.09 $m^3/s$ | $Q_{200}$ = 267.09 $m^3/s$ | $Q_{200}$ = 267.11 $m^3/s$ | $Q_{200}$ = 252.09 $m^3/s$ | $Q_{200}$ = 252.09 $m^3/s$ | $Q_{200}$ = 252.09 $m^3/s$ | $Q_{200}$ = 252.10 $m^3/s$ | $Q_{200}$ = 252.10 $m^3/s$ | $Q_{200}$ = 252.11 $m^3/s$ | $Q_{200}$ = 252.12 $m^3/s$ | $Q_{200}$ = 246.10 $m^3/s$ | $Q_{200}$ = 246.11 $m^3/s$ | $Q_{200}$ = 246.13 $m^3/s$ |
| | PORTATA TR =500 ANNI - $Q_{500}$ ($m^3/s$) | $Q_{500}$ = 299.58 $m^3/s$ | $Q_{500}$ = 299.58 $m^3/s$ | $Q_{500}$ = 299.58 $m^3/s$ | $Q_{500}$ = 299.58 $m^3/s$ | $Q_{500}$ = 299.58 $m^3/s$ | $Q_{500}$ = 285.33 $m^3/s$ | $Q_{500}$ = 285.33 $m^3/s$ | $Q_{500}$ = 285.64 $m^3/s$ | $Q_{500}$ = 285.684 $m^3/s$ | $Q_{500}$ = 285.69 $m^3/s$ | $Q_{500}$ = 285.69 $m^3/s$ | $Q_{500}$ = 285.69 $m^3/s$ | $Q_{500}$ = 280.53 $m^3/s$ | $Q_{500}$ = 280.53 $m^3/s$ | $Q_{500}$ = 280.56 $m^3/s$ |
| | SCABREZZA ALVEO INCISO - $K_{S_A}$ ($m^{1/3}/s$) | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ |
| | SCABREZZA AREA INONDABILE - $K_{S_O}$ ($m^{1/3}/s$) | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ |
| | PENDENZA FONDO ALVEO - P (%) | P = 0.56 % | P = 1.84 % | P = 0.72 % | P = 0.84 % | P = 0.89 % | P = 2.45 % | P = -0.10 % | P = 1.13 % | P = 1.97 % | P = 1.00 % | P = 0.92 % | P = 1.15 % | P = -0.08 % | P = 0.66 % | P = 0.44 % |

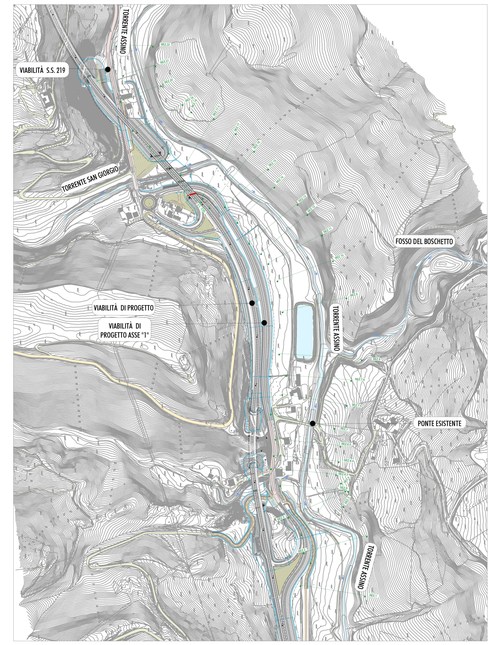
## TORRENTE ASSINO, TRATTO TRA TORRENTE SAN GIORGIO E FOSSO CASAL DEL MONTE: PROFILO IDRAULICO



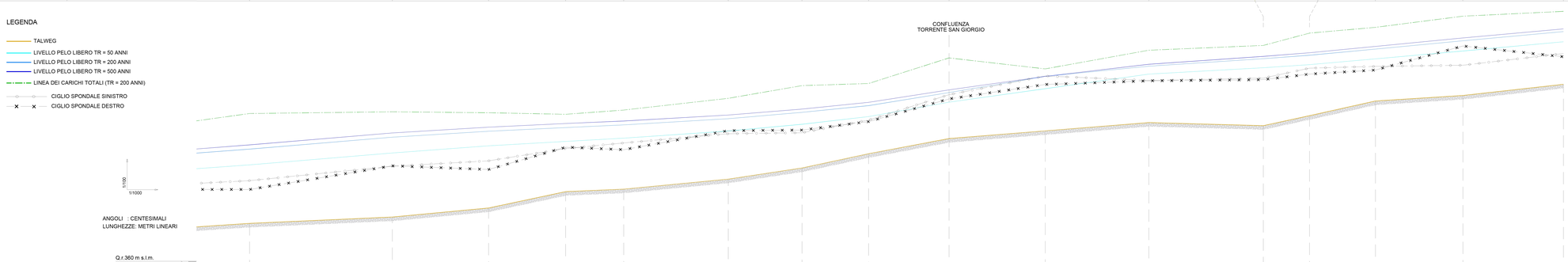

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEZIONI | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | 6.3 | 6.4 | 6.5 | 6.8 | 7 | 7.5 | 7.6 |
| DISTANZE | PARZIALI | | 112.15 | | 56.67 | | 40.33 | | 24.89 | | 46.99 | | 15.00 | 27.83 | 33.09 | 30.70 | 10.00 | 46.94 | 47.03 |
| | PROGRESSIVE | 0.00 | | 112.15 | | 168.82 | | 209.15 | | 234.04 | | 281.03 | 296.03 | 323.86 | 356.95 | 387.65 | 397.65 | 444.59 | 491.62 |
| ETTOMETRICHE | | HM. 0 | | HM. 1 | | HM. 2 | | | | | | HM. 3 | | | | | | HM. 4 | |
| QUOTE | FONDO | 356.67 F. | 359.25 SX | 357.16 F. | 359.31 SX | 358.29 F. | 360.55 SX | 358.07 F. | 360.55 DX | 358.84 F. | 360.25 DX | 359.20 F. | 361.10 DX | 359.51 F. | 362.35 SX | 359.74 F. | 363.10 SX | 360.07 F. | 363.12 SX |
| | CIGLIO SPONDALE SX | 358.67 F. | 359.25 SX | 357.16 F. | 359.31 SX | 358.29 F. | 360.55 SX | 358.07 F. | 360.55 DX | 358.84 F. | 360.25 DX | 359.20 F. | 361.10 DX | 359.51 F. | 362.35 SX | 359.74 F. | 363.10 SX | 360.07 F. | 363.12 SX |
| | CIGLIO SPONDALE DX | 359.45 | 359.63 DX | 360.72 | 360.81 DX | 361.23 | 360.81 DX | 361.64 | 360.81 DX | 361.86 | 360.81 DX | 362.23 | 361.10 DX | 362.53 | 362.35 DX | 362.54 | 363.10 DX | 362.91 | 363.12 DX |
| QUOTA PELO LIBERO | TR = 50 STATO DI PROGETTO | 360.12 | | 360.72 | | 361.23 | | 361.64 | | 361.86 | | 362.23 | | 362.53 | | 362.75 | | 362.91 | |
| | TR = 200 STATO DI PROGETTO | 360.96 | | 361.59 | | 362.05 | | 362.42 | | 362.62 | | 362.98 | | 363.42 | | 363.69 | | 363.66 | |
| | TR = 500 STATO DI PROGETTO | 361.14 | | 361.78 | | 362.25 | | 362.62 | | 362.81 | | 363.15 | | 363.49 | | 363.71 | | 363.85 | |
| VELOCITÀ (m/s) (STATO DI PROGETTO TR = 200 ANNI) | | 5.09 | | 5.07 | | 5.81 | | 6.68 | | 5.77 | | 5.64 | | 3.14 | | 2.92 | | 6.09 | |
| LINEA DEI CARICHI TOTALI (STATO DI PROGETTO TR = 200 ANNI) | | 362.11 | | 362.07 | | 363.80 | | 364.24 | | 364.25 | | 364.49 | | 363.91 | | 363.99 | | 365.55 | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEZIONI | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | |
| DISTANZE | PARZIALI | | 110.20 | | 74.25 | | 50.04 | | 40.04 | | 30.18 | | 54.36 | | 38.32 | | 34.64 | | 41.83 |
| | PROGRESSIVE | 646.06 | | 720.31 | | 770.35 | | 810.39 | | 840.57 | | 894.93 | | 933.25 | | 967.89 | | 1009.72 | |
| ETTOMETRICHE | | HM. 5 | | HM. 6 | | HM. 7 | | HM. 8 | | | | HM. 9 | | | | HM. 10 | | | |
| QUOTE | FONDO | 361.66 F. | 364.54 SX | 362.29 F. | 364.61 SX | 362.42 F. | 364.28 DX | 362.58 F. | 364.28 SX | 362.47 F. | 364.17 DX | 364.59 F. | 365.95 SX | 363.17 F. | 367.14 DX | 363.51 F. | 367.68 DX | 365.70 F. | 368.86 SX |
| | CIGLIO SPONDALE SX | 361.66 F. | 364.54 SX | 362.29 F. | 364.61 SX | 362.42 F. | 364.28 DX | 362.58 F. | 364.28 SX | 362.47 F. | 364.17 DX | 364.59 F. | 365.95 SX | 363.17 F. | 367.14 DX | 363.51 F. | 367.68 DX | 365.70 F. | 368.86 SX |
| | CIGLIO SPONDALE DX | 364.05 | 364.54 DX | 365.33 | 364.61 DX | 364.35 | 364.28 DX | 364.54 | 364.28 DX | 365.33 | 364.17 DX | 365.32 | 365.95 DX | 366.15 | 367.14 DX | 366.27 | 367.68 DX | 366.61 | 368.86 DX |
| QUOTA PELO LIBERO | TR = 50 STATO DI PROGETTO | 362.91 | | 363.33 | | 363.26 | | 364.05 | | 364.14 | | 364.35 | | 364.54 | | 365.33 | | 365.32 | |
| | TR = 200 STATO DI PROGETTO | 363.66 | | 363.96 | | 364.61 | | 364.81 | | 365.06 | | 365.32 | | 366.15 | | 366.37 | | 366.37 | |
| | TR = 500 STATO DI PROGETTO | 363.85 | | 364.31 | | 364.85 | | 365.04 | | 365.27 | | 365.52 | | 366.37 | | 366.57 | | 366.57 | |
| VELOCITÀ (m/s) (STATO DI PROGETTO TR = 200 ANNI) | | 6.09 | | 5.21 | | 4.01 | | 4.31 | | 4.76 | | 4.92 | | 6.06 | | 5.98 | | 5.98 | |
| LINEA DEI CARICHI TOTALI (STATO DI PROGETTO TR = 200 ANNI) | | 366.55 | | 366.26 | | 366.33 | | 366.70 | | 366.22 | | 366.48 | | 368.00 | | 367.98 | | 367.98 | |

## TORRENTE ASSINO: INQUADRAMENTO TRATTO INDAGATO




| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETRI IDRAULICI DI PROGETTO | PORTATA TR =50 ANNI - $Q_{50}$ ($m^3/s$) | $Q_{50}$ = 144.64 $m^3/s$ | $Q_{50}$ = 144.65 $m^3/s$ | $Q_{50}$ = 144.65 $m^3/s$ | $Q_{50}$ = 144.65 $m^3/s$ | $Q_{50}$ = 144.65 $m^3/s$ | $Q_{50}$ = 144.65 $m^3/s$ | $Q_{50}$ = 144.65 $m^3/s$ | $Q_{50}$ = 144.65 $m^3/s$ | $Q_{50}$ = 144.65 $m^3/s$ | $Q_{50}$ = 97.80 $m^3/s$ | $Q_{50}$ = 97.79 $m^3/s$ | $Q_{50}$ = 97.80 $m^3/s$ | $Q_{50}$ = 97.79 $m^3/s$ | $Q_{50}$ = 97.80 $m^3/s$ | $Q_{50}$ = 97.80 $m^3/s$ | $Q_{50}$ = 97.80 $m^3/s$ |
| | PORTATA TR =200 ANNI - $Q_{200}$ ($m^3/s$) | $Q_{200}$ = 246.13 $m^3/s$ | $Q_{200}$ = 246.11 $m^3/s$ | $Q_{200}$ = 246.12 $m^3/s$ | $Q_{200}$ = 246.13 $m^3/s$ | $Q_{200}$ = 246.13 $m^3/s$ | $Q_{200}$ = 246.14 $m^3/s$ | $Q_{200}$ = 246.12 $m^3/s$ | $Q_{200}$ = 246.14 $m^3/s$ | $Q_{200}$ = 246.14 $m^3/s$ | $Q_{200}$ = 162.15 $m^3/s$ | $Q_{200}$ = 162.15 $m^3/s$ | $Q_{200}$ = 162.21 $m^3/s$ | $Q_{200}$ = 162.19 $m^3/s$ | $Q_{200}$ = 162.20 $m^3/s$ | $Q_{200}$ = 162.21 $m^3/s$ | $Q_{200}$ = 162.20 $m^3/s$ |
| | PORTATA TR =500 ANNI - $Q_{500}$ ($m^3/s$) | $Q_{500}$ = 280.56 $m^3/s$ | $Q_{500}$ = 280.56 $m^3/s$ | $Q_{500}$ = 280.56 $m^3/s$ | $Q_{500}$ = 280.56 $m^3/s$ | $Q_{500}$ = 280.56 $m^3/s$ | $Q_{500}$ = 280.57 $m^3/s$ | $Q_{500}$ = 280.56 $m^3/s$ | $Q_{500}$ = 280.57 $m^3/s$ | $Q_{500}$ = 280.57 $m^3/s$ | $Q_{500}$ = 185.49 $m^3/s$ | $Q_{500}$ = 185.49 $m^3/s$ | $Q_{500}$ = 185.49 $m^3/s$ | $Q_{500}$ = 185.49 $m^3/s$ | $Q_{500}$ = 185.49 $m^3/s$ | $Q_{500}$ = 185.49 $m^3/s$ | $Q_{500}$ = 185.50 $m^3/s$ |
| | SCABREZZA ALVEO INCISO - $K_{S_A}$ ($m^{1/3}/s$) | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ | $K_{S_A}$ = 0.031 $m^{1/3}/s$ |
| | SCABREZZA AREA INONDABILE - $K_{S_O}$ ($m^{1/3}/s$) | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ | $K_{S_O}$ = 0.041 $m^{1/3}/s$ |
| | PENDENZA FONDO ALVEO - P (%) | P = 0.44 % | P = 0.94 % | P = 2.07 % | P = 0.43 % | P = 0.96 % | P = 1.51 % | P = 2.14 % | P = 1.89 % | P = 1.11 % | P = 0.51 % | P = -0.27 % | P = 2.17 % | P = 2.22 % | P = 0.63 % | P = 1.13 % |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEZIONI | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | |
| DISTANZE | PARZIALI | | 74.25 | | 50.04 | | 40.04 | | 30.18 | | 54.36 | | 38.32 | | 34.64 | | 41.83 | | 50.00 |
| | PROGRESSIVE | 646.06 | | 720.31 | | 770.35 | | 810.39 | | 840.57 | | 894.93 | | 933.25 | | 967.89 | | 1009.72 | |
| ETTOMETRICHE | | HM. 7 | | | | HM. 8 | | | | | | HM. 9 | | | | HM. 10 | | | |
| QUOTE | FONDO | 362.29 F. | 364.61 SX | 362.42 F. | 364.28 DX | 362.58 F. | 364.28 SX | 362.47 F. | 364.17 DX | 364.59 F. | 365.95 SX | 363.17 F. | 367.14 DX | 363.51 F. | 367.68 DX | 365.70 F. | 368.86 SX | 363.53 F. | 369.72 SX |
| | CIGLIO SPONDALE SX | 362.29 F. | 364.61 SX | 362.42 F. | 364.28 DX | 362.58 F. | 364.28 SX | 362.47 F. | 364.17 DX | 364.59 F. | 365.95 SX | 363.17 F. | 367.14 DX | 363.51 F. | 367.68 DX | 365.70 F. | 368.86 SX | 363.53 F. | 369.72 SX |
| | CIGLIO SPONDALE DX | 364.05 | 364.54 DX | 365.33 | 364.61 DX | 364.35 | 364.28 DX | 364.54 | 364.28 DX | 365.33 | 364.17 DX | 365.32 | 365.95 DX | 366.15 | 367.14 DX | 366.27 | 367.68 DX | 366.61 | 368.86 DX |
| QUOTA PELO LIBERO | TR = 50 STATO DI PROGETTO | 365.33 | | 365.95 | | 366.26 | | 366.72 | | 367.41 | | 367.73 | | 367.84 | | 368.23 | | 368.41 | |
| | TR = 200 STATO DI PROGETTO | 366.15 | | 366.77 | | 367.08 | | 367.27 | | 367.41 | | 367.92 | | 367.84 | | 368.06 | | 368.41 | |
| | TR = 500 STATO DI PROGETTO | 366.37 | | 366.99 | | 367.29 | | 367.48 | | 367.61 | | 367.92 | | 368.23 | | 368.58 | | 369.23 | |
| VELOCITÀ (m/s) (STATO DI PROGETTO TR = 200 ANNI) | | 6.06 | | 5.50 | | 4.79 | | 3.87 | | 4.05 | | 4.75 | | 5.31 | | 5.03 | | 5.86 | |
| LINEA DEI CARICHI TOTALI (STATO DI PROGETTO TR = 200 ANNI) | | 369.00 | | 368.09 | | 368.04 | | 367.96 | | 368.18 | | 368.79 | | 369.45 | | 369.56 | | 370.89 | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEZIONI | | 17 | | 17.5 | | 18 | | 19 | | 19.5 | | 20 | | 21 | | 22 | | | |
| DISTANZE | PARZIALI | | 50.00 | | 53.89 | | 59.51 | | 24.00 | | 34.27 | | 45.48 | | 52.28 | | | | |
| | PROGRESSIVE | 1009.72 | | 1059.72 | | 1113.61 | | 1173.12 | | 1197.12 | | 1231.39 | | 1276.87 | | 1329.15 | | | |
| ETTOMETRICHE | | HM. 10 | | | | HM. 11 | | | | HM. 12 | | | | | | HM. 13 | | | |
| QUOTE | FONDO | 363.53 F. | 369.72 SX | 363.53 F. | 369.72 DX | 367.10 F. | 369.51 DX | 367.27 F. | 369.79 DX | 367.89 F. | 370.05 DX | 368.65 F. | 370.26 DX | 368.84 F. | 371.01 DX | 369.52 F. | 370.95 DX | | |
| | CIGLIO SPONDALE SX | 363.53 F. | 369.72 SX | 363.53 F. | 369.72 DX | 367.10 F. | 369.51 DX | 367.27 F. | 369.79 DX | 367.89 F. | 370.05 DX | 368.65 F. | 370.26 DX | 368.84 F. | 371.01 DX | 369.52 F. | 370.95 DX | | |
| | CIGLIO SPONDALE DX | 364.05 | 369.72 DX | 364.05 | 369.72 DX | 367.10 | 369.51 DX | 367.38 | 370.38 | 367.89 | 370.54 | 368.65 | 370.84 | 368.84 | 371.25 | 369.52 | 371.13 | | |
| QUOTA PELO LIBERO | TR = 50 STATO DI PROGETTO | 368.23 | | 368.23 | | 368.41 | | 368.96 | | 369.43 | | 369.99 | | 370.46 | | 370.85 | | | |
| | TR = 200 STATO DI PROGETTO | 368.58 | | 368.58 | | 369.23 | | 369.53 | | 369.93 | | 370.46 | | 370.85 | | 371.03 | | | |
| | TR = 500 STATO DI PROGETTO | 369.23 | | 369.23 | | 370.06 | | 370.07 | | 370.54 | | 371.16 | | 371.35 | | 371.63 | | | |
| VELOCITÀ (m/s) (STATO DI PROGETTO TR = 200 ANNI) | | 5.03 | | 5.86 | | 4.17 | | 4.01 | | 4.86 | | 4.84 | | 5.34 | | 4.69 | | | |
| LINEA DEI CARICHI TOTALI (STATO DI PROGETTO TR = 200 ANNI) | | 369.56 | | 370.89 | | 370.32 | | 371.54 | | 372.18 | | 372.48 | | 373.00 | | 373.31 | | | |

REGIONE UMBRIA

STRADA S.S. N.219 "GUBBIO - PIAN D'ASSINO"
ADEGUAMENTO TRATTO GUBBIO-UMBERTIDE
2° LOTTO: MOCAIANA-UMBERTIDE - 1° STRALCIO: MOCAIANA-PIETRALUNGA
CIG 6038565D77 - CUP F31B12000720001

**SOGGETTO ATTUATORE ANAS S.p.A.**

PROGETTO ESECUTIVO

IMPRESA:
COLLINI LAVORI S.p.A.

PROGETTAZIONE:

RESPONSABILE DELL'INTEGRAZIONE FRA LE VARIE PRESTAZIONI SPECIALISTICHE
*Ing. GIOVANNA CASSANI*

PROGETTAZIONE OPERE IN SOTTERRANEO E GEOTECNICA
*Ing. GIOVANNA CASSANI*

GEOLOGIA
*Dott.ssa Geol. FIORENZA PENNINO*

PROGETTAZIONE STRUTTURALE
*Ing. PIER PAOLO CORCHIA*

PROGETTAZIONE STRADALE, IDRAULICA DI PIATTAFORMA E IMPIANTI
*Ing. FILIPPO VIARO*

PROGETTAZIONE AMBIENTALE PAESAGGISTICA E ARCHITETTONICA
*Arch. SERGIO BECCARELLI*

ROCKSOIL S.p.A.

POLICREO SOCIETÀ DI PROGETTAZIONE srl

CONSULENZE SPECIALISTICHE:

PIANO UTILIZZO TERRE E ROCCE DA SCAVO
*Dott. Geol. CARLO CALEFFI*
*ENGEO srl*

ASPETTI ENERGETICI E PRESTAZIONALI
*Ing. SANDRO DE FEO*
*TKP turnkey projects engineering srl*

ARCHEOLOGIA
*Dott.ssa Archeologa FRANCESCA GERMINI*

ACUSTICA
*Ing. GIOVANNI BRIANTI*
*POLICREO srl*

SICUREZZA
*Ing. GIUSEPPE OLIVA*
*OLIVA & ASSOCIATI*

STUDI ED INDAGINI
IDROLOGIA E IDRAULICA
INTERFERENZE IDROGRAFICHE
PROFILO IDRAULICO DEL TORRENTE ASSINO NEL TRATTO
TRA IL TORRENTE SAN GIORGIO ED IL FOSSO CASAL DEL MONTE

RESPONSABILE DEL PROCEDIMENTO: *Ing. A.SCALAMANDRE'*

| CODICE PROGETTO | | | NOME FILE | REVISIONE | SCALA |
|---|---|---|---|---|---|
| PROGETTO | LIV. PROG. | N. PROG. | T00ID00IDRFP03A.dwg | | |
| DPPG05 | E | 1701 | CODICE ELAB. T00ID00IDRFP03 | A | 1:1000 1:100 |

| REV. | DESCRIZIONE | DATA | REDATTO | VERIFICATO | APPROVATO |
|---|---|---|---|---|---|
| A | EMISSIONE | 11/12/2017 | RONCORONI | VIARO | CASSANI |