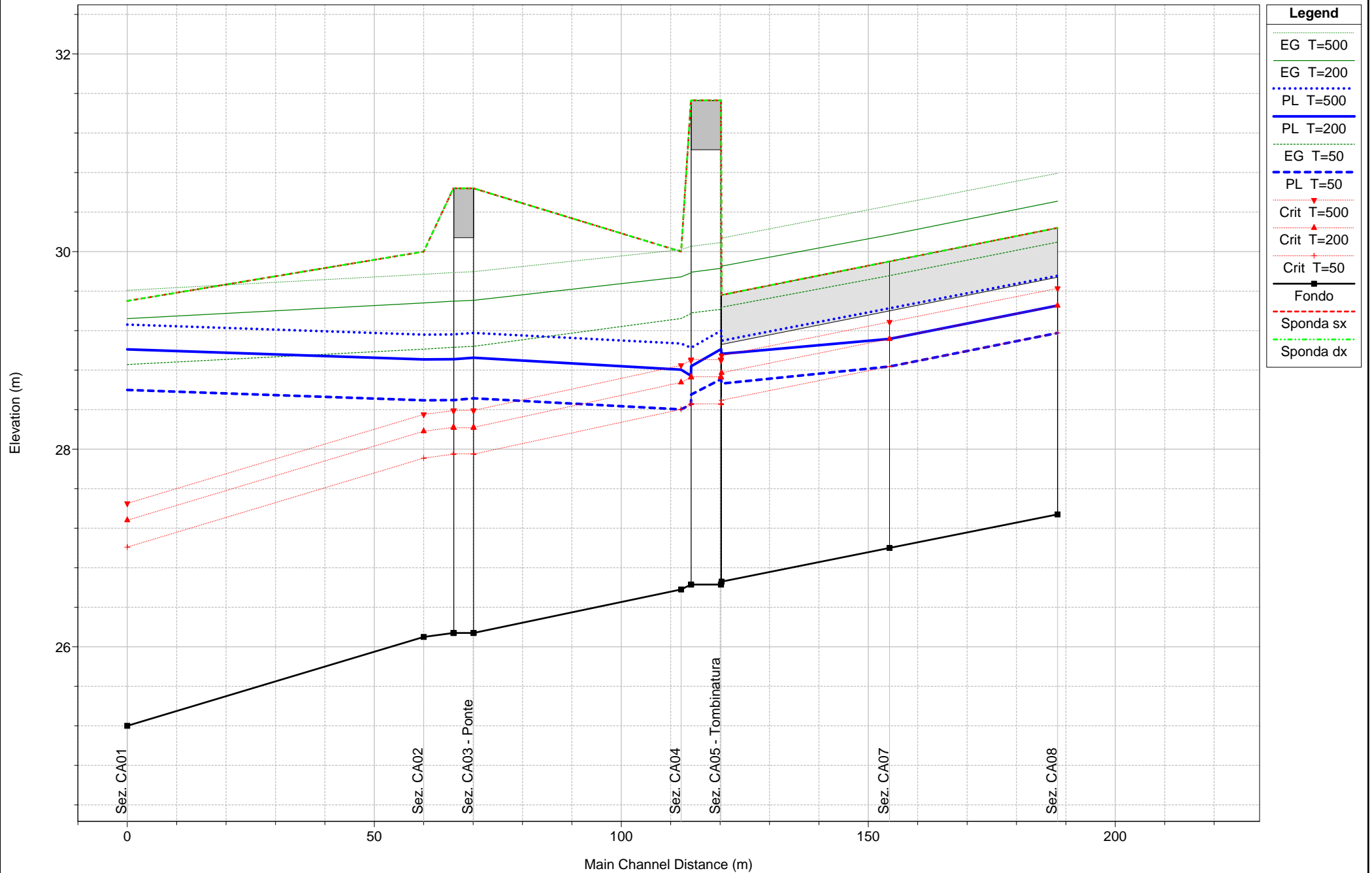
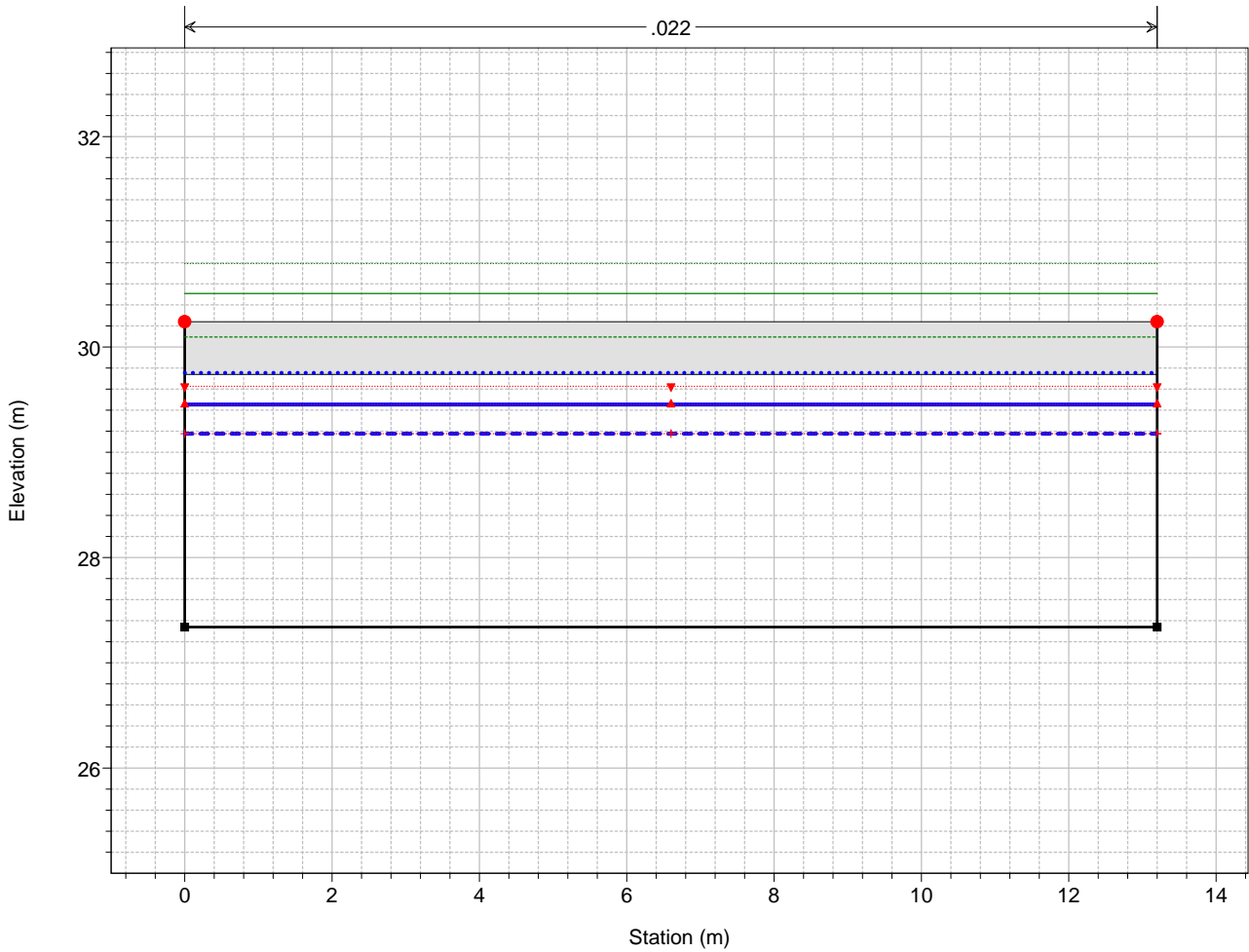


T. Petronio - Loc. Casarza (confluenze)  
 Torrente Cacarello



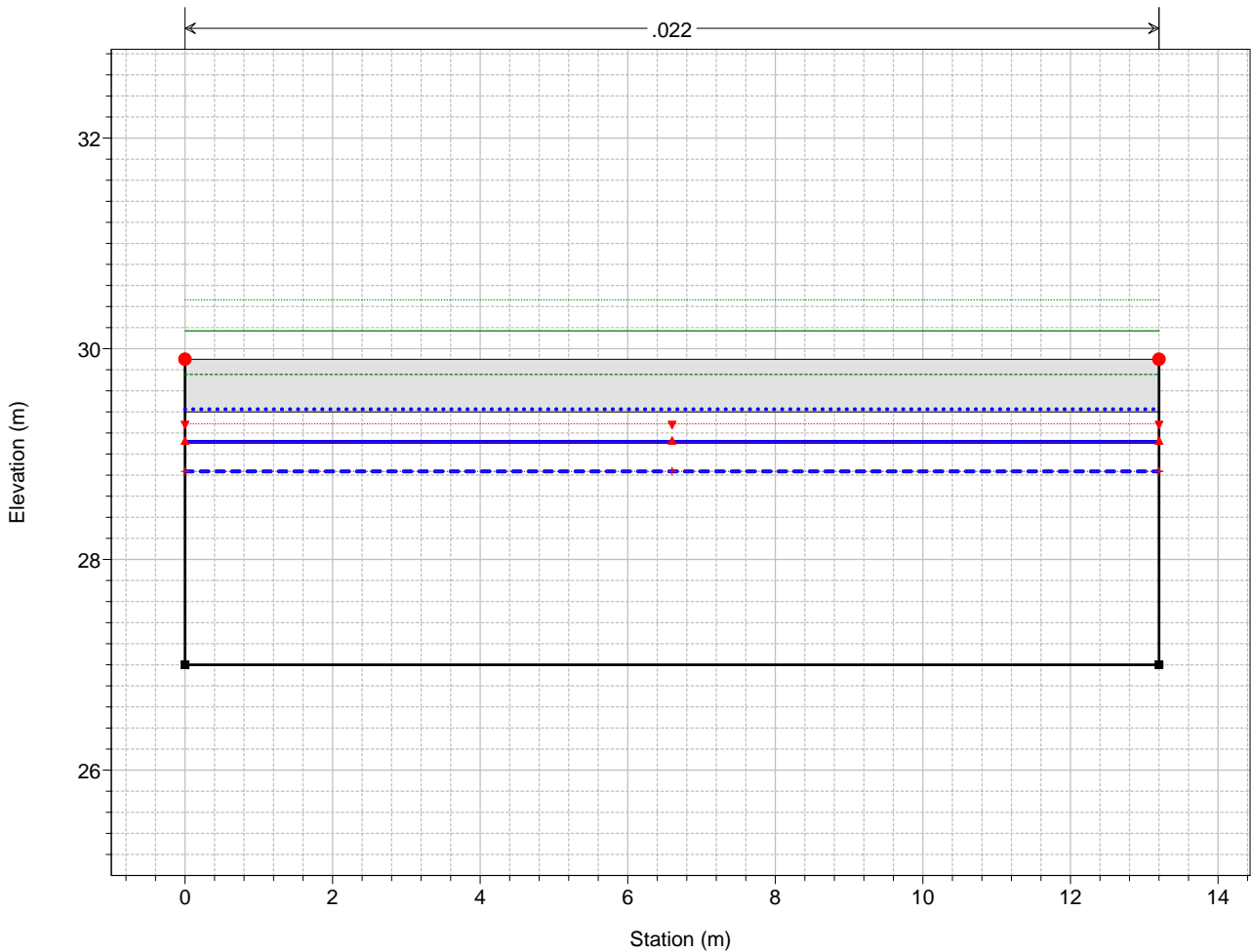
1 cm Horiz. = 10 m 1 cm Vert. = 0.5 m

T. Petronio - Loc. Casarza (confluenze)  
Sez. CA08 Torrente Cacarello



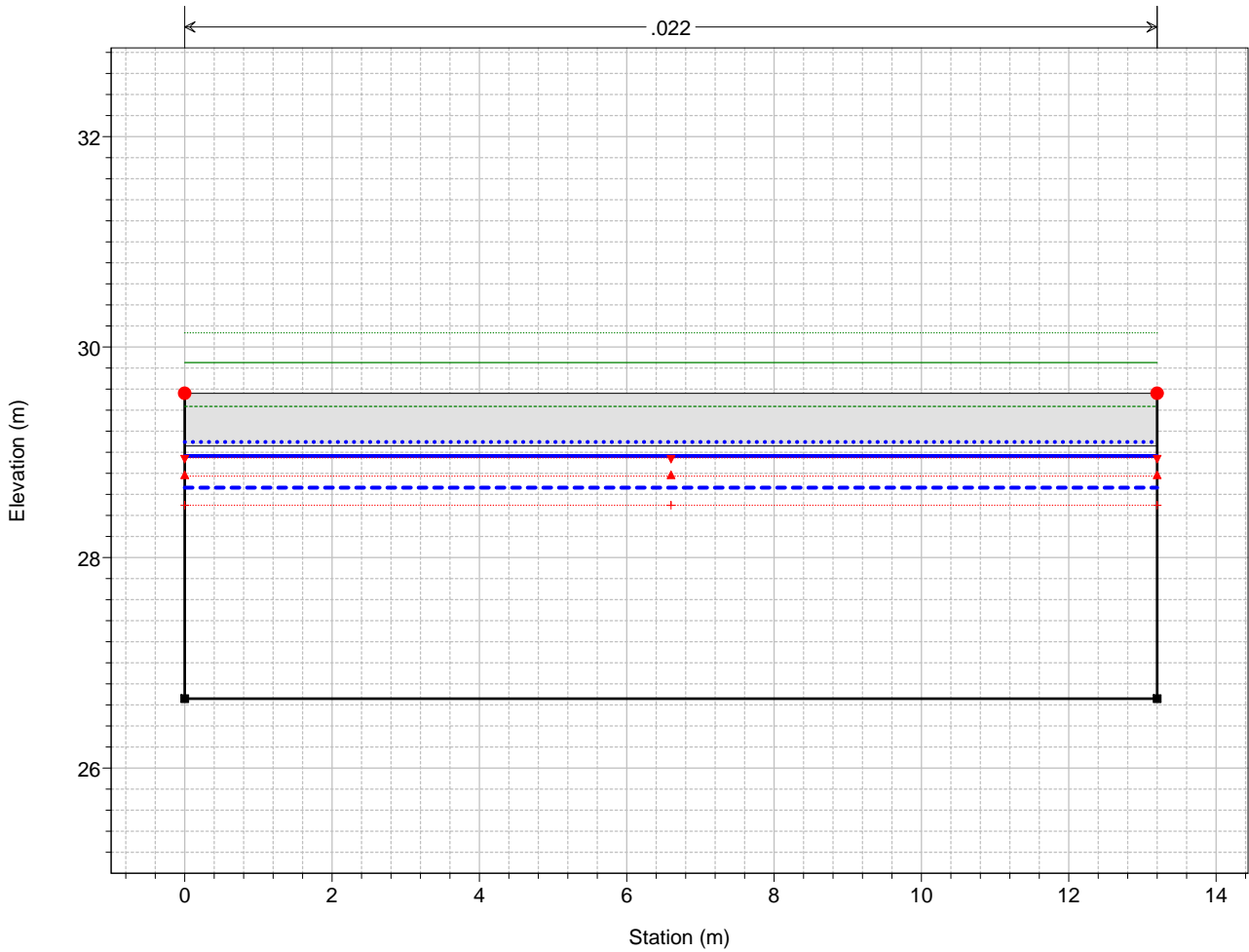
| Legend     |  |
|------------|--|
| EG T=500   | (Solid Green Line)                       |
| EG T=200   | (Dashed Green Line)                      |
| EG T=50    | (Dotted Green Line)                      |
| PL T=500   | (Dotted Blue Line)                       |
| Crit T=500 | (Dotted Red Line with Downward Triangle) |
| Crit T=200 | (Dotted Red Line with Upward Triangle)   |
| PL T=200   | (Solid Blue Line)                        |
| PL T=50    | (Dashed Blue Line)                       |
| Crit T=50  | (Dotted Red Line with Plus Sign)         |
| Fondo      | (Solid Black Line with Square)           |
| Sponda     | (Red Circle)                             |

T. Petronio - Loc. Casarza (confluenze)  
Sez. CA07 Torrente Cacarello



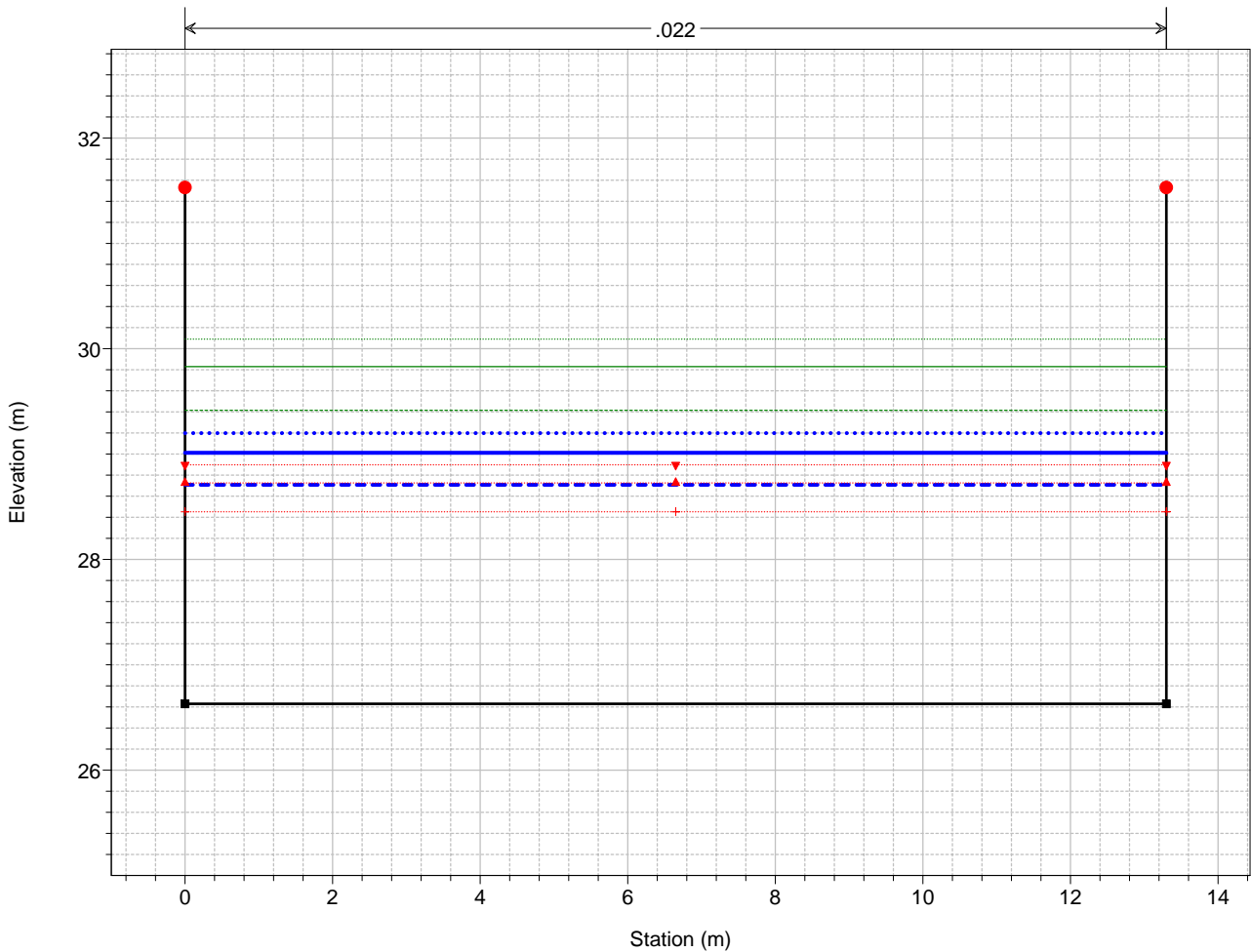
| Legend     |  |
|------------|--|
| EG T=500   | (Solid Green Line)                       |
| EG T=200   | (Dashed Green Line)                      |
| EG T=50    | (Dotted Green Line)                      |
| PL T=500   | (Dotted Blue Line)                       |
| Crit T=500 | (Dotted Red Line with Downward Triangle) |
| Crit T=200 | (Dotted Red Line with Upward Triangle)   |
| PL T=200   | (Solid Blue Line)                        |
| PL T=50    | (Dashed Blue Line)                       |
| Crit T=50  | (Dotted Red Line with Plus Sign)         |
| Fondo      | (Solid Black Line with Square)           |
| Sponda     | (Red Circle)                             |

T. Petronio - Loc. Casarza (confluenze)  
Sez. CA06 Torrente Cacarello



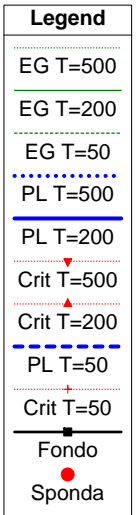
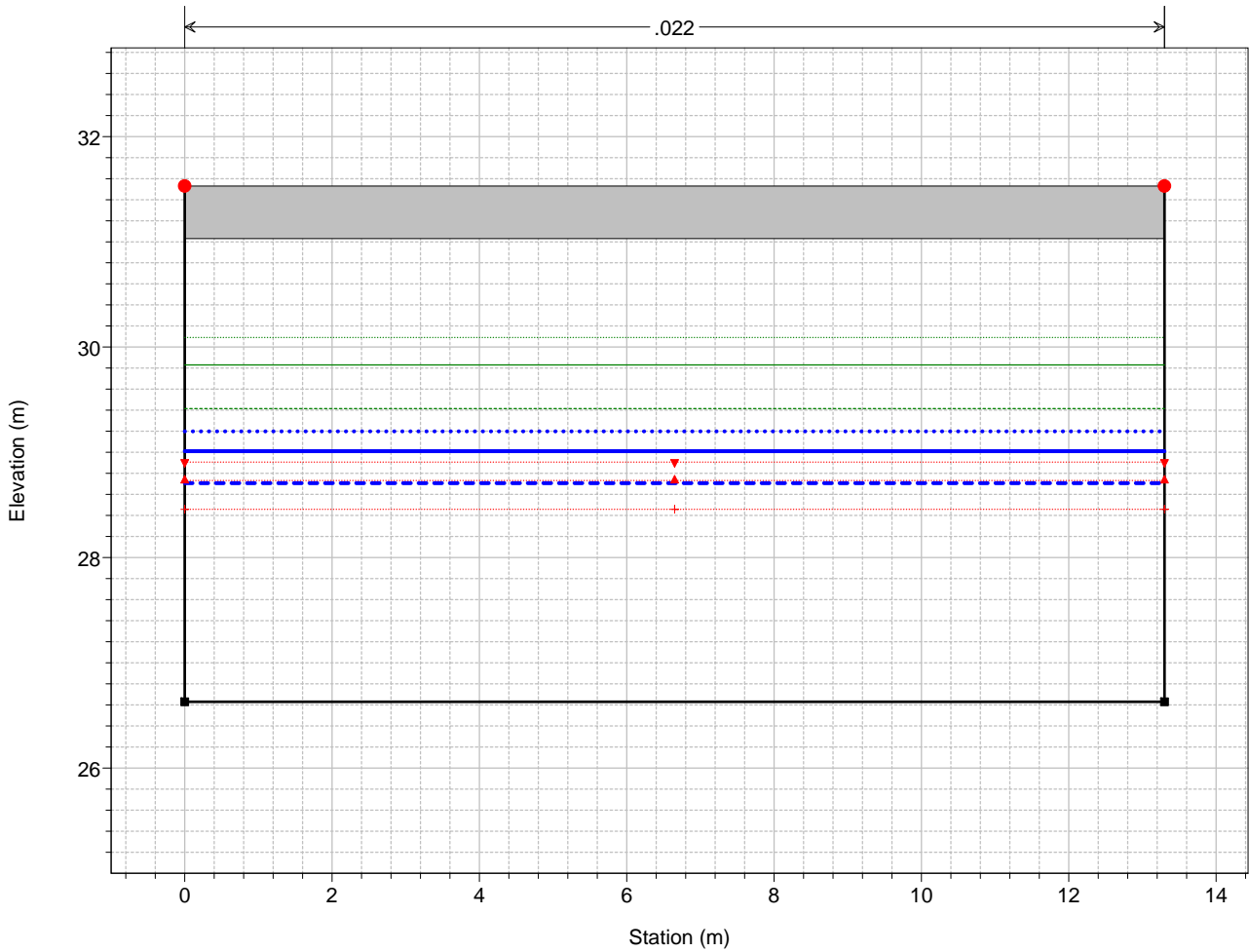
| Legend     |                     |
|------------|---------------------|
| EG T=500   | (Solid Green Line)  |
| EG T=200   | (Dotted Green Line) |
| EG T=50    | (Dotted Blue Line)  |
| PL T=500   | (Dotted Blue Line)  |
| PL T=200   | (Solid Blue Line)   |
| Crit T=500 | (Dotted Red Line)   |
| Crit T=200 | (Dotted Red Line)   |
| PL T=50    | (Dashed Blue Line)  |
| Crit T=50  | (Dotted Red Line)   |
| Fondo      | (Solid Black Line)  |
| Sponda     | (Red Dot)           |

T. Petronio - Loc. Casarza (confluenze)  
Torrente Cacarello

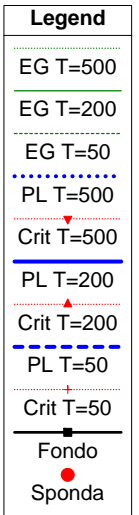
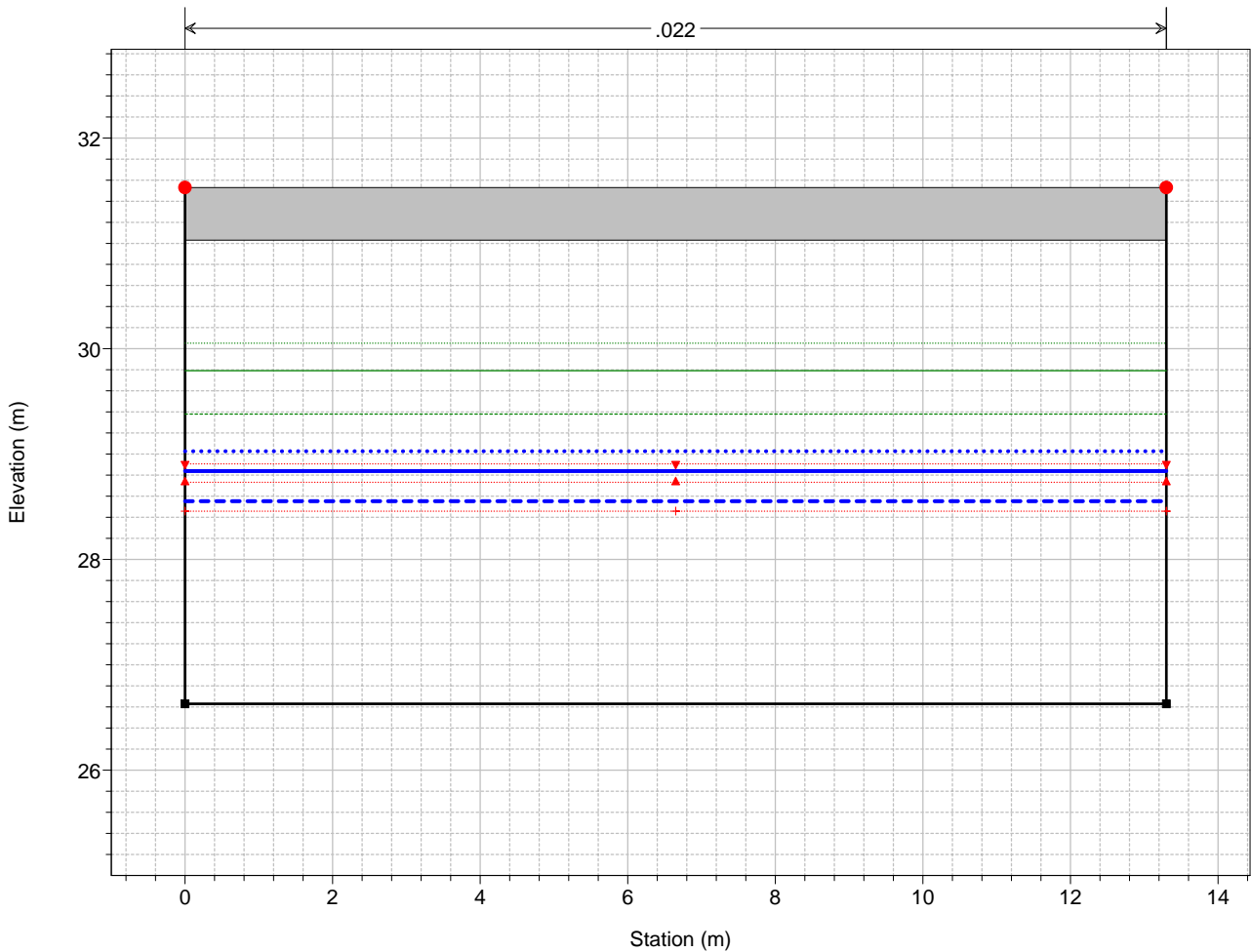


| Legend     |                     |
|------------|---------------------|
| EG T=500   | (Solid Green Line)  |
| EG T=200   | (Dotted Green Line) |
| EG T=50    | (Dotted Blue Line)  |
| PL T=500   | (Dotted Blue Line)  |
| PL T=200   | (Solid Blue Line)   |
| Crit T=500 | (Dotted Red Line)   |
| Crit T=200 | (Dotted Red Line)   |
| PL T=50    | (Dashed Blue Line)  |
| Crit T=50  | (Dotted Red Line)   |
| Fondo      | (Solid Black Line)  |
| Sponda     | (Red Dot)           |

T. Petronio - Loc. Casarza (confluenze)  
Sez. CA05 - Tombinatura Torrente Cacarello



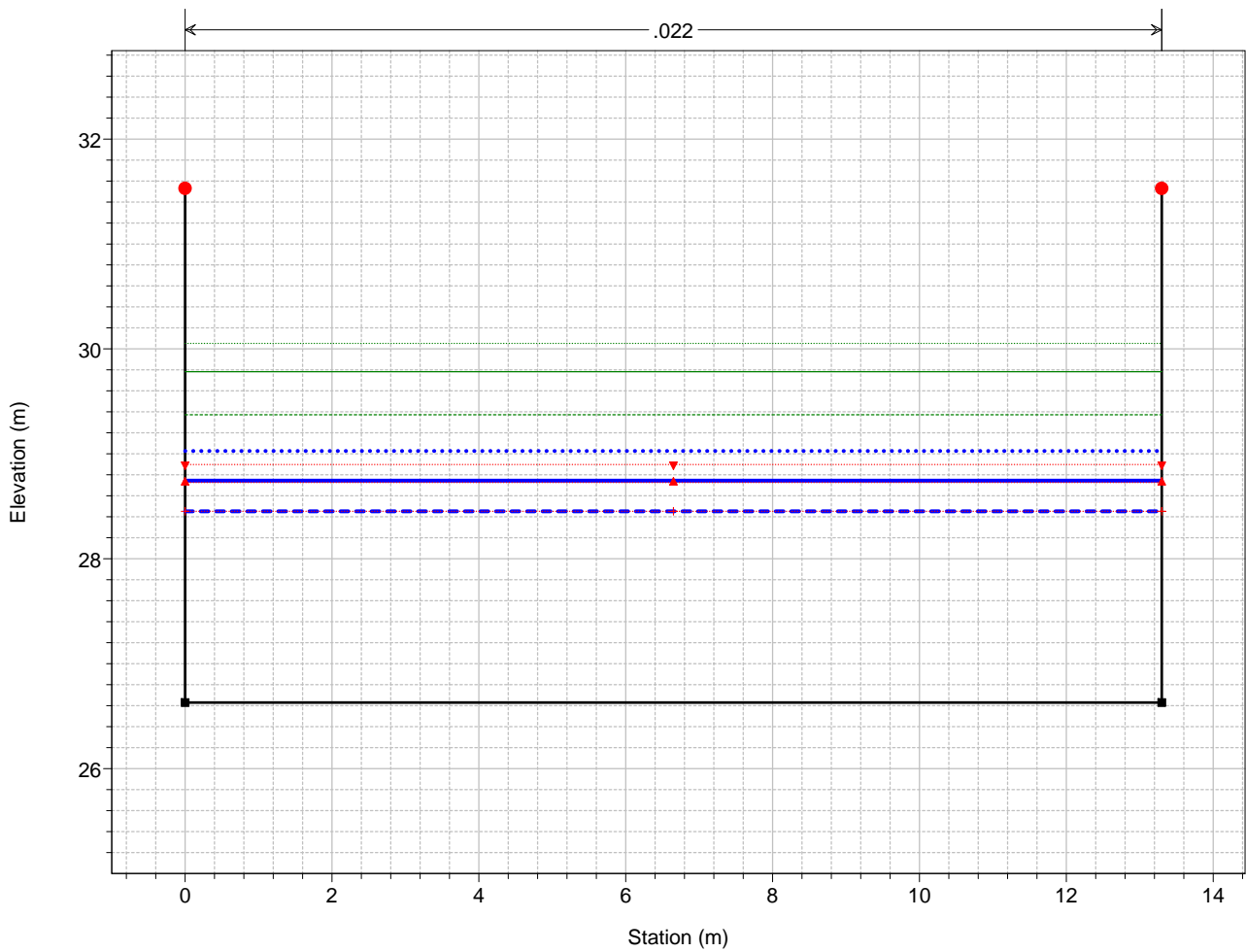
T. Petronio - Loc. Casarza (confluenze)  
Sez. CA05 - Tombinatura Torrente Cacarello



### T. Petronio - Loc. Casarza (confluenze)

Torrente Cacarello

.022

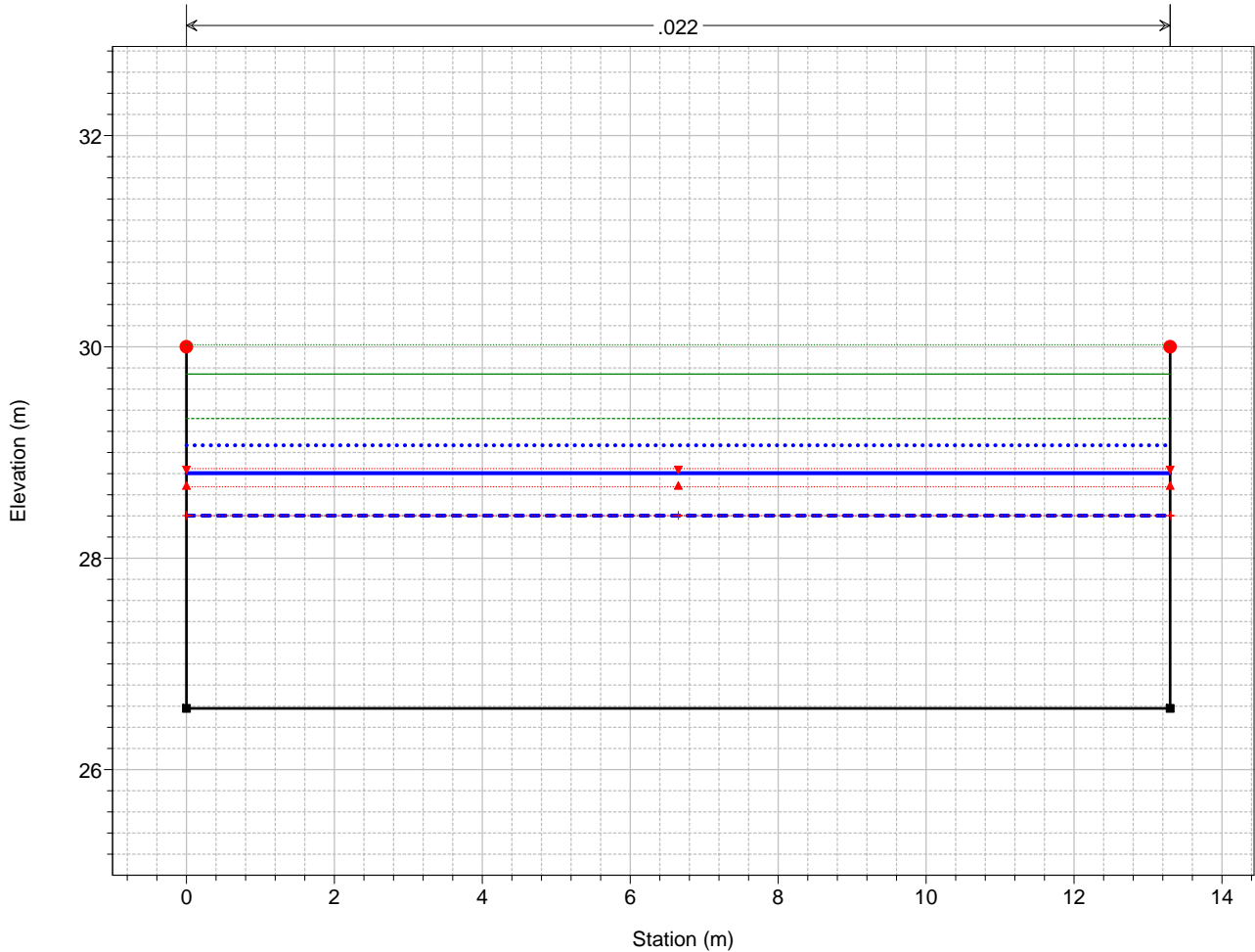


| Legend     |                     |
|------------|---------------------|
| EG T=500   | (Dotted Green Line) |
| EG T=200   | (Solid Green Line)  |
| EG T=50    | (Dotted Blue Line)  |
| PL T=500   | (Dotted Red Line)   |
| Crit T=500 | (Solid Red Line)    |
| PL T=200   | (Solid Blue Line)   |
| Crit T=200 | (Dotted Red Line)   |
| PL T=50    | (Dashed Blue Line)  |
| Crit T=50  | (Dotted Red Line)   |
| Fondo      | (Solid Black Line)  |
| Sponda     | (Red Dot)           |

### T. Petronio - Loc. Casarza (confluenze)

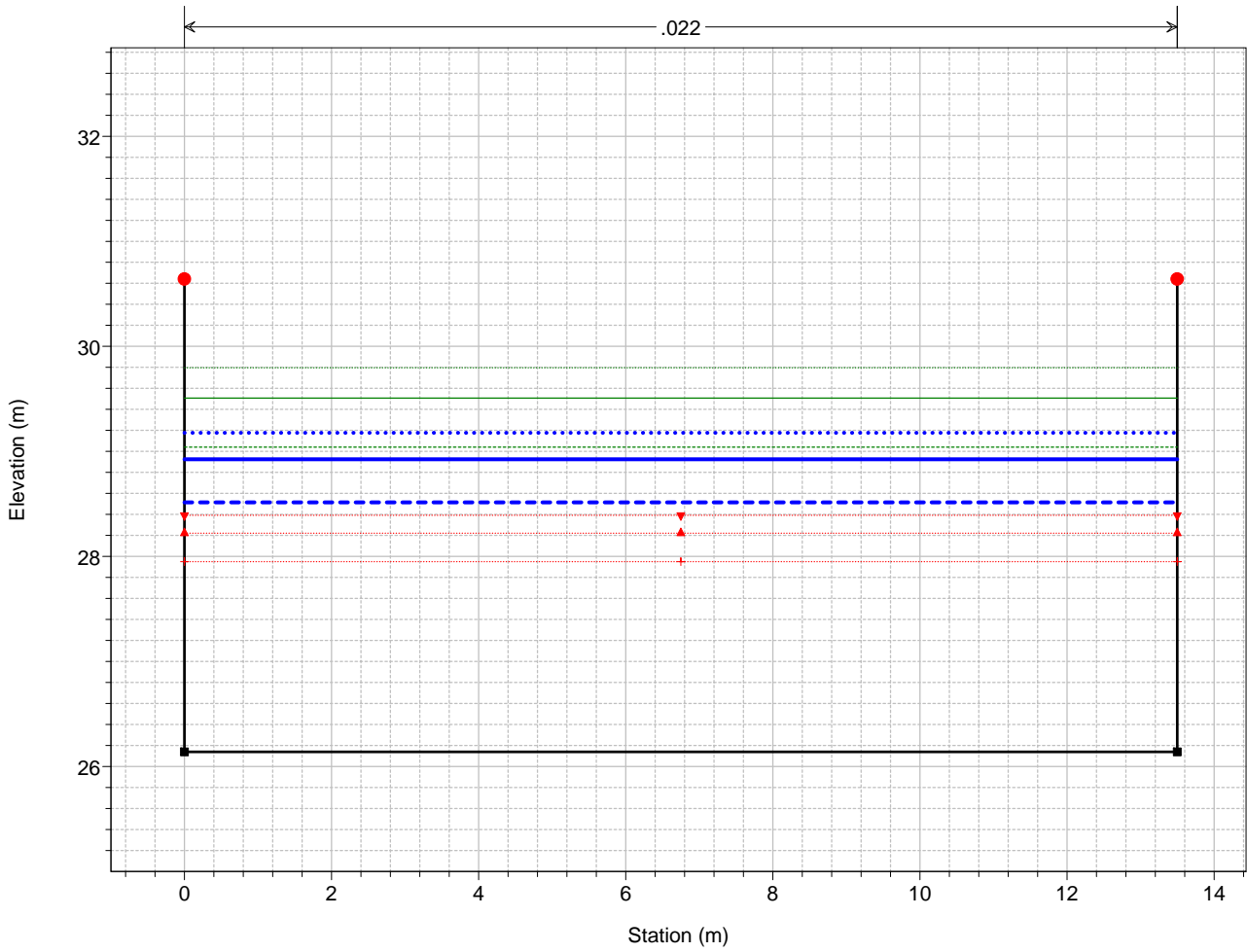
Sez. CA04 Torrente Cacarello

.022



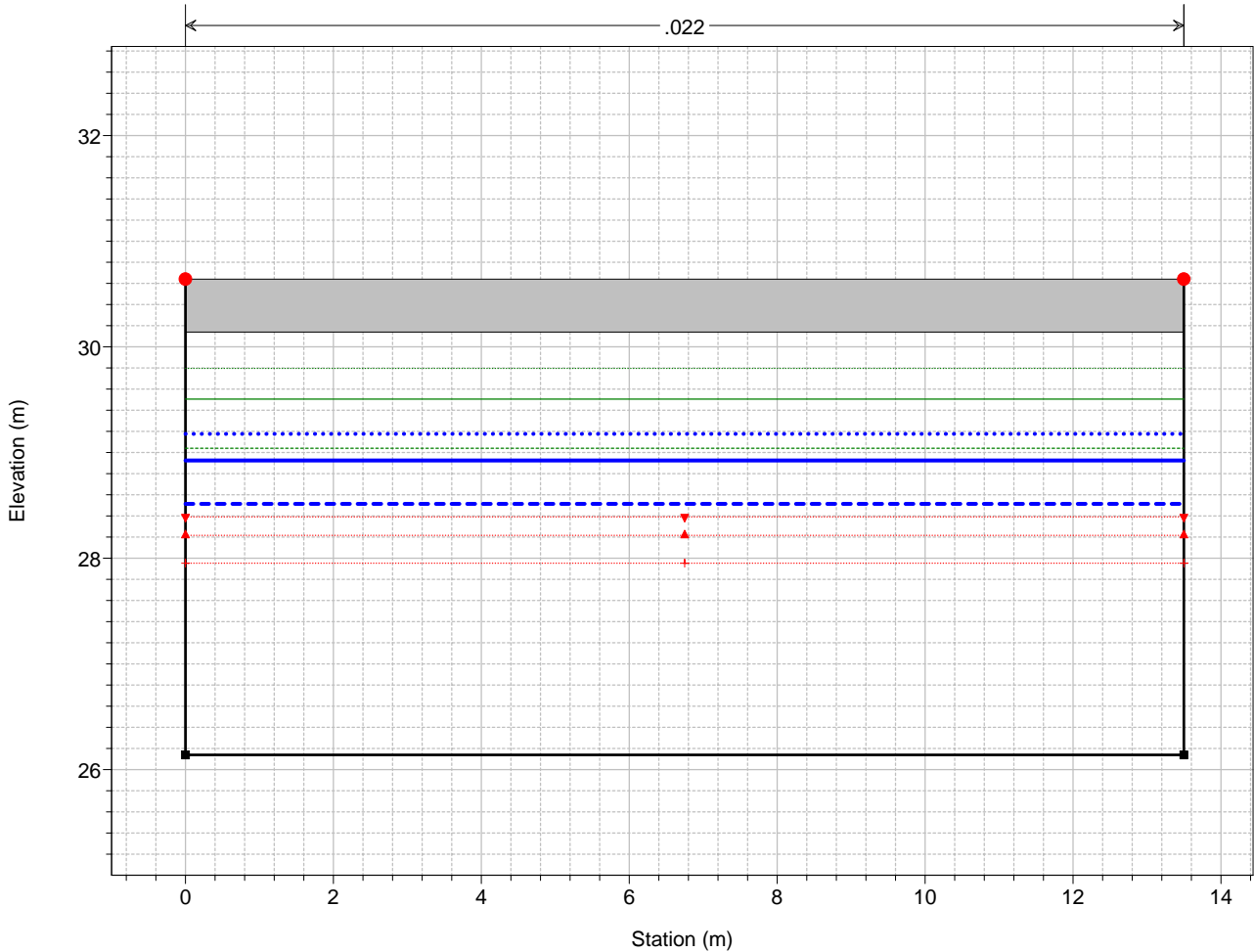
| Legend     |                     |
|------------|---------------------|
| EG T=500   | (Dotted Green Line) |
| EG T=200   | (Solid Green Line)  |
| EG T=50    | (Dotted Blue Line)  |
| PL T=500   | (Dotted Red Line)   |
| Crit T=500 | (Solid Red Line)    |
| PL T=200   | (Solid Blue Line)   |
| Crit T=200 | (Dotted Red Line)   |
| PL T=50    | (Dashed Blue Line)  |
| Crit T=50  | (Dotted Red Line)   |
| Fondo      | (Solid Black Line)  |
| Sponda     | (Red Dot)           |

T. Petronio - Loc. Casarza (confluenze)  
Torrente Cacarello



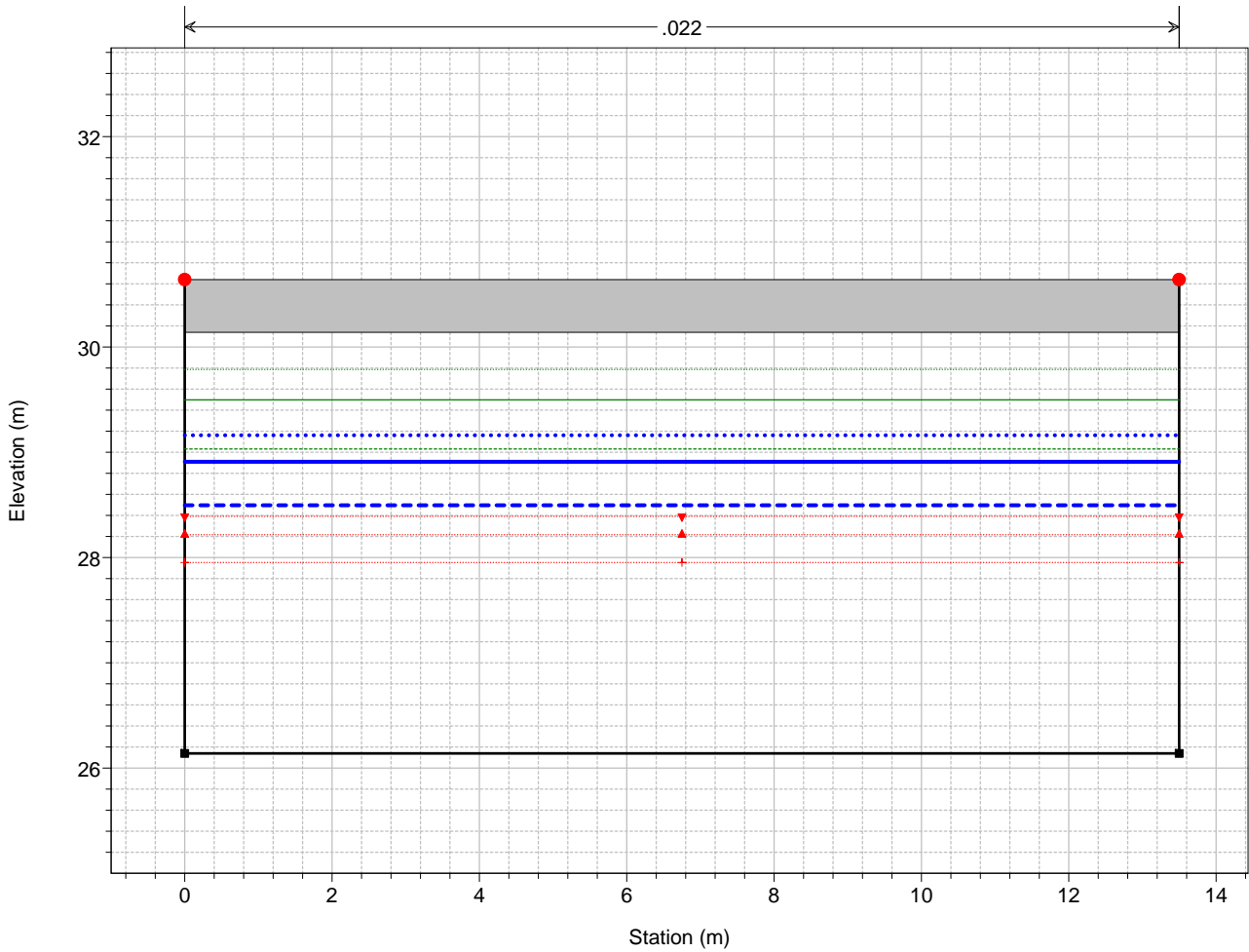
| Legend     |  |
|------------|--|
| EG T=500   | (Green dotted line)                      |
| EG T=200   | (Green solid line)                       |
| PL T=500   | (Blue dotted line)                       |
| EG T=50    | (Green dashed line)                      |
| PL T=200   | (Blue solid line)                        |
| PL T=50    | (Blue dashed line)                       |
| Crit T=500 | (Red dotted line with inverted triangle) |
| Crit T=200 | (Red dotted line with triangle)          |
| Crit T=50  | (Red dotted line with plus)              |
| Fondo      | (Black solid line with square)           |
| Sponda     | (Red solid line with circle)             |

T. Petronio - Loc. Casarza (confluenze)  
Sez. CA03 - Ponte Torrente Cacarello



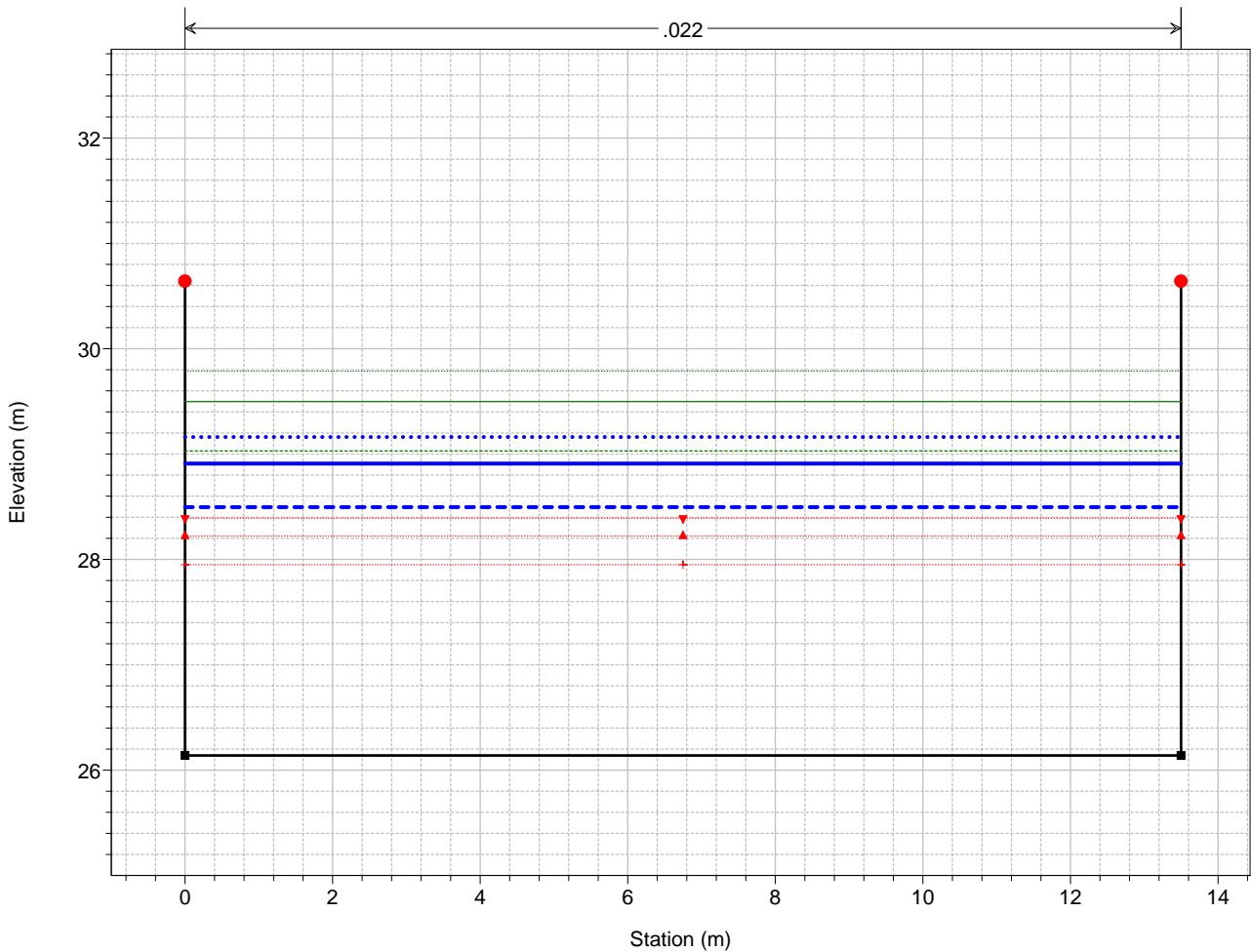
| Legend     |  |
|------------|--|
| EG T=500   | (Green dotted line)                      |
| EG T=200   | (Green solid line)                       |
| PL T=500   | (Blue dotted line)                       |
| EG T=50    | (Green dashed line)                      |
| PL T=200   | (Blue solid line)                        |
| PL T=50    | (Blue dashed line)                       |
| Crit T=500 | (Red dotted line with inverted triangle) |
| Crit T=200 | (Red dotted line with triangle)          |
| Crit T=50  | (Red dotted line with plus)              |
| Fondo      | (Black solid line with square)           |
| Sponda     | (Red solid line with circle)             |

T. Petronio - Loc. Casarza (confluenze)  
Sez. CA03 - Ponte Torrente Cacarello



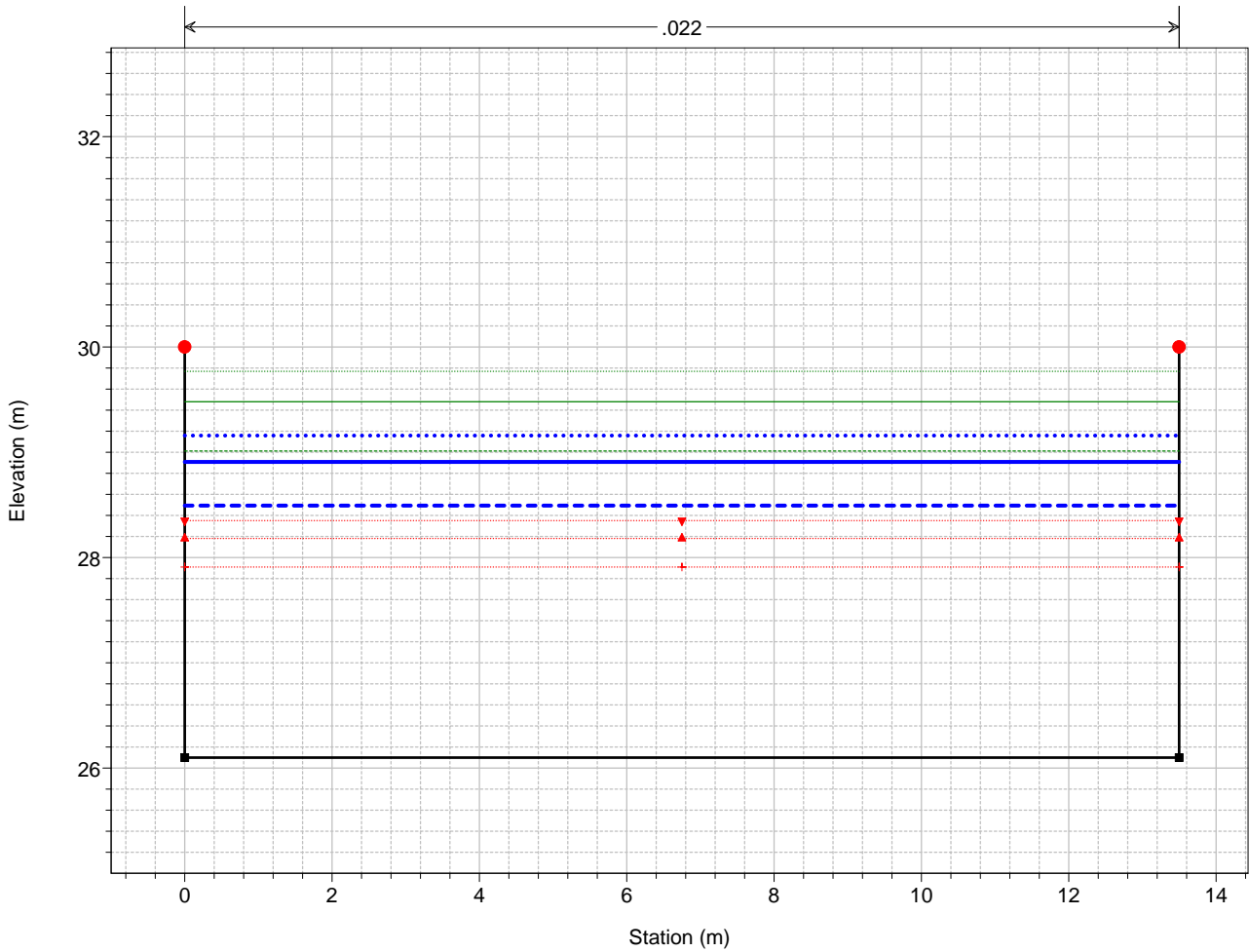
| Legend     |                         |
|------------|-------------------------|
| EG T=500   | (Green dotted line)     |
| EG T=200   | (Green solid line)      |
| PL T=500   | (Blue dotted line)      |
| EG T=50    | (Green dashed line)     |
| PL T=200   | (Blue solid line)       |
| PL T=50    | (Blue dashed line)      |
| Crit T=500 | (Red inverted triangle) |
| Crit T=200 | (Red triangle)          |
| Crit T=50  | (Red plus)              |
| Fondo      | (Black square)          |
| Sponda     | (Red circle)            |

T. Petronio - Loc. Casarza (confluenze)  
Torrente Cacarello



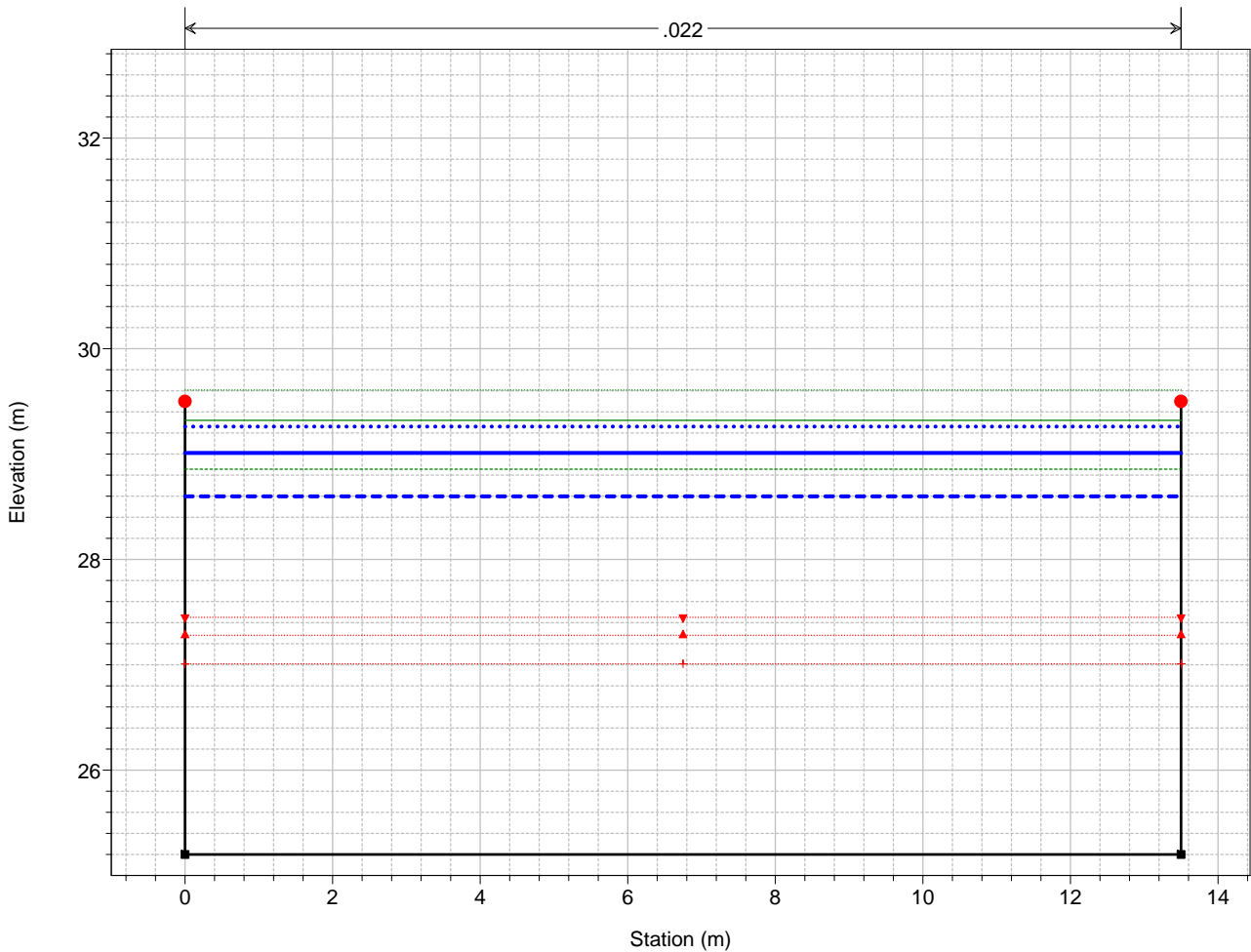
| Legend     |                         |
|------------|-------------------------|
| EG T=500   | (Green dotted line)     |
| EG T=200   | (Green solid line)      |
| PL T=500   | (Blue dotted line)      |
| EG T=50    | (Green dashed line)     |
| PL T=200   | (Blue solid line)       |
| PL T=50    | (Blue dashed line)      |
| Crit T=500 | (Red inverted triangle) |
| Crit T=200 | (Red triangle)          |
| Crit T=50  | (Red plus)              |
| Fondo      | (Black square)          |
| Sponda     | (Red circle)            |

T. Petronio - Loc. Casarza (confluenze)  
Sez. CA02 Torrente Cacarello



| Legend     |                     |
|------------|---------------------|
| EG T=500   | (Dotted Green Line) |
| EG T=200   | (Dotted Blue Line)  |
| PL T=500   | (Dotted Green Line) |
| EG T=50    | (Dotted Green Line) |
| PL T=200   | (Solid Blue Line)   |
| PL T=50    | (Dashed Blue Line)  |
| Crit T=500 | (Dotted Red Line)   |
| Crit T=200 | (Dotted Red Line)   |
| Crit T=50  | (Dotted Red Line)   |
| Fondo      | (Solid Black Line)  |
| Sponda     | (Red Dot)           |

T. Petronio - Loc. Casarza (confluenze)  
Sez. CA01 Torrente Cacarello



| Legend     |                     |
|------------|---------------------|
| EG T=500   | (Dotted Green Line) |
| EG T=200   | (Dotted Blue Line)  |
| PL T=500   | (Dotted Green Line) |
| EG T=50    | (Dotted Green Line) |
| PL T=200   | (Solid Blue Line)   |
| PL T=50    | (Dashed Blue Line)  |
| Crit T=500 | (Dotted Red Line)   |
| Crit T=200 | (Dotted Red Line)   |
| Crit T=50  | (Dotted Red Line)   |
| Fondo      | (Solid Black Line)  |
| Sponda     | (Red Dot)           |



HEC-RAS Plan: Pp7 River: Cacarello Reach: monte

| Reach | River Sta | Profile | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | LOB Elev<br>(m) | L. Freeboard<br>(m) | ROB Elev<br>(m) | R. Freeboard<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|-------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| monte | 8         | T=50    | 103.00            | 27.34            | 29.18            | 29.74           | 0.56                | 29.74           | 0.56                | 29.18            | 30.10            | 0.005392            | 4.25              | 24.24             | 13.20            | 1.00         |
| monte | 8         | T=200   | 127.00            | 27.34            | 29.45            | 29.74           | 0.29                | 29.74           | 0.29                | 29.45            | 30.51            | 0.005358            | 4.55              | 27.89             | 13.20            | 1.00         |
| monte | 8         | T=500   | 143.00            | 27.34            | 29.75            | 29.74           | -0.01               | 29.74           | -0.01               | 29.63            | 30.79            | 0.009663            | 4.51              | 31.68             |                  | 0.93         |
| monte | 7         | T=50    | 103.00            | 27.00            | 28.84            | 29.40           | 0.56                | 29.40           | 0.56                | 28.84            | 29.76            | 0.005389            | 4.25              | 24.24             | 13.20            | 1.00         |
| monte | 7         | T=200   | 127.00            | 27.00            | 29.12            | 29.40           | 0.28                | 29.40           | 0.28                | 29.12            | 30.17            | 0.005341            | 4.55              | 27.92             | 13.20            | 1.00         |
| monte | 7         | T=500   | 143.00            | 27.00            | 29.43            | 29.40           | -0.03               | 29.40           | -0.03               | 29.29            | 30.46            | 0.009663            | 4.51              | 31.68             |                  | 0.93         |
| monte | 6         | T=50    | 103.00            | 26.66            | 28.66            | 29.06           | 0.40                | 29.06           | 0.40                | 28.50            | 29.44            | 0.004138            | 3.89              | 26.45             | 13.20            | 0.88         |
| monte | 6         | T=200   | 127.00            | 26.66            | 28.96            | 29.06           | 0.10                | 29.06           | 0.10                | 28.77            | 29.85            | 0.004132            | 4.17              | 30.42             | 13.20            | 0.88         |
| monte | 6         | T=500   | 143.00            | 26.66            | 29.10            | 29.06           | -0.04               | 29.06           | -0.04               | 28.95            | 30.14            | 0.009663            | 4.51              | 31.68             |                  | 0.92         |
| monte | 5.2       | T=50    | 103.00            | 26.63            | 28.71            | 31.53           | 2.82                | 31.53           | 2.82                | 28.45            | 29.42            | 0.003643            | 3.73              | 27.64             | 13.30            | 0.83         |
| monte | 5.2       | T=200   | 127.00            | 26.63            | 29.01            | 31.53           | 2.52                | 31.53           | 2.52                | 28.73            | 29.83            | 0.003679            | 4.01              | 31.68             | 13.30            | 0.83         |
| monte | 5.2       | T=500   | 143.00            | 26.63            | 29.20            | 31.53           | 2.33                | 31.53           | 2.33                | 28.90            | 30.09            | 0.003725            | 4.19              | 34.17             | 13.30            | 0.83         |
| monte | 5.11      |         | Bridge            |                  |                  |                 |                     |                 |                     |                  |                  |                     |                   |                   |                  |              |
| monte | 5.1       | T=50    | 103.00            | 26.63            | 28.45            | 31.53           | 3.08                | 31.53           | 3.08                | 28.45            | 29.37            | 0.005421            | 4.25              | 24.24             | 13.30            | 1.00         |
| monte | 5.1       | T=200   | 127.00            | 26.63            | 28.74            | 31.53           | 2.79                | 31.53           | 2.79                | 28.73            | 29.78            | 0.005263            | 4.52              | 28.11             | 13.30            | 0.99         |
| monte | 5.1       | T=500   | 143.00            | 26.63            | 29.03            | 31.53           | 2.50                | 31.53           | 2.50                | 28.90            | 30.05            | 0.004579            | 4.49              | 31.87             | 13.30            | 0.93         |
| monte | 4         | T=50    | 103.00            | 26.58            | 28.40            | 30.00           | 1.60                | 30.00           | 1.60                | 28.40            | 29.32            | 0.005420            | 4.25              | 24.24             | 13.30            | 1.00         |
| monte | 4         | T=200   | 127.00            | 26.58            | 28.80            | 30.00           | 1.20                | 30.00           | 1.20                | 28.68            | 29.74            | 0.004515            | 4.29              | 29.58             | 13.30            | 0.92         |
| monte | 4         | T=500   | 143.00            | 26.58            | 29.07            | 30.00           | 0.93                | 30.00           | 0.93                | 28.85            | 30.02            | 0.004091            | 4.32              | 33.11             | 13.30            | 0.87         |
| monte | 3.2       | T=50    | 103.00            | 26.14            | 28.51            | 30.64           | 2.13                | 30.64           | 2.13                | 27.95            | 29.04            | 0.002358            | 3.21              | 32.05             | 13.50            | 0.67         |
| monte | 3.2       | T=200   | 127.00            | 26.14            | 28.93            | 30.64           | 1.71                | 30.64           | 1.71                | 28.22            | 29.51            | 0.002233            | 3.38              | 37.60             | 13.50            | 0.65         |
| monte | 3.2       | T=500   | 143.00            | 26.14            | 29.18            | 30.64           | 1.46                | 30.64           | 1.46                | 28.39            | 29.80            | 0.002199            | 3.49              | 40.99             | 13.50            | 0.64         |
| monte | 3.11      |         | Bridge            |                  |                  |                 |                     |                 |                     |                  |                  |                     |                   |                   |                  |              |
| monte | 3.1       | T=50    | 103.00            | 26.14            | 28.50            | 30.64           | 2.14                | 30.64           | 2.14                | 27.95            | 29.03            | 0.002410            | 3.24              | 31.82             | 13.50            | 0.67         |
| monte | 3.1       | T=200   | 127.00            | 26.14            | 28.91            | 30.64           | 1.73                | 30.64           | 1.73                | 28.22            | 29.50            | 0.002268            | 3.40              | 37.40             | 13.50            | 0.65         |
| monte | 3.1       | T=500   | 143.00            | 26.14            | 29.16            | 30.64           | 1.48                | 30.64           | 1.48                | 28.39            | 29.79            | 0.002230            | 3.51              | 40.79             | 13.50            | 0.64         |
| monte | 2         | T=50    | 103.00            | 26.10            | 28.49            | 30.00           | 1.51                | 30.00           | 1.51                | 27.91            | 29.01            | 0.002300            | 3.19              | 32.32             | 13.50            | 0.66         |
| monte | 2         | T=200   | 127.00            | 26.10            | 28.91            | 30.00           | 1.09                | 30.00           | 1.09                | 28.18            | 29.48            | 0.002181            | 3.35              | 37.91             | 13.50            | 0.64         |
| monte | 2         | T=500   | 143.00            | 26.10            | 29.16            | 30.00           | 0.84                | 30.00           | 0.84                | 28.35            | 29.77            | 0.002151            | 3.46              | 41.30             | 13.50            | 0.63         |
| monte | 1         | T=50    | 103.00            | 25.20            | 28.60            | 29.50           | 0.90                | 29.50           | 0.90                | 27.01            | 28.86            | 0.000822            | 2.24              | 45.89             | 13.50            | 0.39         |
| monte | 1         | T=200   | 127.00            | 25.20            | 29.01            | 29.50           | 0.49                | 29.50           | 0.49                | 27.28            | 29.32            | 0.000900            | 2.47              | 51.44             | 13.50            | 0.40         |
| monte | 1         | T=500   | 143.00            | 25.20            | 29.26            | 29.50           | 0.24                | 29.50           | 0.24                | 27.45            | 29.61            | 0.000952            | 2.61              | 54.83             | 13.50            | 0.41         |

Plan: Pp7 Cacarello monte RS: 3.11 Profile: T=50

| E.G. US. (m)         | 29.04       | Element             | Inside BR US | Inside BR DS |
|----------------------|-------------|---------------------|--------------|--------------|
| W.S. US. (m)         | 28.51       | E.G. Elev (m)       | 29.04        | 29.03        |
| Q Total (m3/s)       | 103.00      | W.S. Elev (m)       | 28.51        | 28.50        |
| Q Bridge (m3/s)      | 103.00      | Crit W.S. (m)       | 27.95        | 27.95        |
| Q Weir (m3/s)        |             | Max Chl Dpth (m)    | 2.37         | 2.36         |
| Weir Sta Lft (m)     |             | Vel Total (m/s)     | 3.21         | 3.24         |
| Weir Sta Rgt (m)     |             | Flow Area (m2)      | 32.05        | 31.82        |
| Weir Submerg         |             | Froude # Chl        | 0.67         | 0.67         |
| Weir Max Depth (m)   |             | Specif Force (m3)   | 71.78        | 71.48        |
| Min El Weir Flow (m) | 30.64       | Hydr Depth (m)      | 2.37         | 2.36         |
| Min El Prs (m)       | 30.14       | W.P. Total (m)      | 18.25        | 18.21        |
| Delta EG (m)         | 0.01        | Conv. Total (m3/s)  | 2121.0       | 2098.4       |
| Delta WS (m)         | 0.02        | Top Width (m)       | 13.50        | 13.50        |
| BR Open Area (m2)    | 54.00       | Frctn Loss (m)      | 0.01         | 0.00         |
| BR Open Vel (m/s)    | 3.24        | C & E Loss (m)      | 0.00         | 0.00         |
| Coef of Q            |             | Shear Total (N/m2)  | 40.62        | 41.28        |
| Br Sel Method        | Energy only | Power Total (N/m s) | 0.00         | 0.00         |

Plan: Pp7 Cacarello monte RS: 3.11 Profile: T=200

| E.G. US. (m)         | 29.51       | Element             | Inside BR US | Inside BR DS |
|----------------------|-------------|---------------------|--------------|--------------|
| W.S. US. (m)         | 28.93       | E.G. Elev (m)       | 29.51        | 29.50        |
| Q Total (m3/s)       | 127.00      | W.S. Elev (m)       | 28.93        | 28.91        |
| Q Bridge (m3/s)      | 127.00      | Crit W.S. (m)       | 28.22        | 28.22        |
| Q Weir (m3/s)        |             | Max Chl Dpth (m)    | 2.79         | 2.77         |
| Weir Sta Lft (m)     |             | Vel Total (m/s)     | 3.38         | 3.40         |
| Weir Sta Rgt (m)     |             | Flow Area (m2)      | 37.60        | 37.41        |
| Weir Submerg         |             | Froude # Chl        | 0.65         | 0.65         |
| Weir Max Depth (m)   |             | Specif Force (m3)   | 96.07        | 95.76        |
| Min El Weir Flow (m) | 30.64       | Hydr Depth (m)      | 2.79         | 2.77         |
| Min El Prs (m)       | 30.14       | W.P. Total (m)      | 19.07        | 19.04        |
| Delta EG (m)         | 0.01        | Conv. Total (m3/s)  | 2687.6       | 2666.9       |
| Delta WS (m)         | 0.01        | Top Width (m)       | 13.50        | 13.50        |
| BR Open Area (m2)    | 54.00       | Frctn Loss (m)      | 0.01         | 0.00         |
| BR Open Vel (m/s)    | 3.40        | C & E Loss (m)      | 0.00         | 0.00         |
| Coef of Q            |             | Shear Total (N/m2)  | 43.18        | 43.69        |
| Br Sel Method        | Energy only | Power Total (N/m s) | 0.00         | 0.00         |

Plan: Pp7 Cacarello monte RS: 3.11 Profile: T=500

| E.G. US. (m)         | 29.80       | Element             | Inside BR US | Inside BR DS |
|----------------------|-------------|---------------------|--------------|--------------|
| W.S. US. (m)         | 29.18       | E.G. Elev (m)       | 29.80        | 29.79        |
| Q Total (m3/s)       | 143.00      | W.S. Elev (m)       | 29.18        | 29.16        |
| Q Bridge (m3/s)      | 143.00      | Crit W.S. (m)       | 28.39        | 28.39        |
| Q Weir (m3/s)        |             | Max Chl Dpth (m)    | 3.04         | 3.02         |
| Weir Sta Lft (m)     |             | Vel Total (m/s)     | 3.49         | 3.51         |
| Weir Sta Rgt (m)     |             | Flow Area (m2)      | 40.99        | 40.80        |
| Weir Submerg         |             | Froude # Chl        | 0.64         | 0.64         |
| Weir Max Depth (m)   |             | Specif Force (m3)   | 113.06       | 112.72       |
| Min El Weir Flow (m) | 30.64       | Hydr Depth (m)      | 3.04         | 3.02         |
| Min El Prs (m)       | 30.14       | W.P. Total (m)      | 19.57        | 19.54        |
| Delta EG (m)         | 0.01        | Conv. Total (m3/s)  | 3049.6       | 3028.9       |
| Delta WS (m)         | 0.01        | Top Width (m)       | 13.50        | 13.50        |
| BR Open Area (m2)    | 54.00       | Frctn Loss (m)      | 0.01         | 0.00         |
| BR Open Vel (m/s)    | 3.51        | C & E Loss (m)      | 0.00         | 0.00         |
| Coef of Q            |             | Shear Total (N/m2)  | 45.16        | 45.63        |
| Br Sel Method        | Energy only | Power Total (N/m s) | 0.00         | 0.00         |

Plan: Pp7 Cacarello monte RS: 5.11 Profile: T=50

| E.G. US. (m)         | 29.42       | Element             | Inside BR US | Inside BR DS |
|----------------------|-------------|---------------------|--------------|--------------|
| W.S. US. (m)         | 28.71       | E.G. Elev (m)       | 29.42        | 29.38        |
| Q Total (m3/s)       | 103.00      | W.S. Elev (m)       | 28.71        | 28.55        |
| Q Bridge (m3/s)      | 103.00      | Crit W.S. (m)       | 28.46        | 28.46        |
| Q Weir (m3/s)        |             | Max Chl Dpth (m)    | 2.08         | 1.92         |
| Weir Sta Lft (m)     |             | Vel Total (m/s)     | 3.73         | 4.03         |
| Weir Sta Rgt (m)     |             | Flow Area (m2)      | 27.63        | 25.57        |
| Weir Submerg         |             | Froude # Chl        | 0.83         | 0.93         |
| Weir Max Depth (m)   |             | Specif Force (m3)   | 67.82        | 66.85        |
| Min El Weir Flow (m) | 31.53       | Hydr Depth (m)      | 2.08         | 1.92         |
| Min El Prs (m)       | 31.03       | W.P. Total (m)      | 17.46        | 17.15        |
| Delta EG (m)         | 0.04        | Conv. Total (m3/s)  | 1706.1       | 1517.3       |
| Delta WS (m)         | 0.26        | Top Width (m)       | 13.30        | 13.30        |
| BR Open Area (m2)    | 58.52       | Frctn Loss (m)      | 0.02         | 0.00         |
| BR Open Vel (m/s)    | 4.03        | C & E Loss (m)      | 0.01         | 0.01         |
| Coef of Q            |             | Shear Total (N/m2)  | 56.58        | 67.40        |
| Br Sel Method        | Energy only | Power Total (N/m s) | 0.00         | 0.00         |

Plan: Pp7 Cacarello monte RS: 5.11 Profile: T=200

| E.G. US. (m)         | 29.83       | Element             | Inside BR US | Inside BR DS |
|----------------------|-------------|---------------------|--------------|--------------|
| W.S. US. (m)         | 29.01       | E.G. Elev (m)       | 29.83        | 29.79        |
| Q Total (m3/s)       | 127.00      | W.S. Elev (m)       | 29.01        | 28.84        |
| Q Bridge (m3/s)      | 127.00      | Crit W.S. (m)       | 28.73        | 28.73        |
| Q Weir (m3/s)        |             | Max Chl Dpth (m)    | 2.38         | 2.21         |
| Weir Sta Lft (m)     |             | Vel Total (m/s)     | 4.01         | 4.32         |
| Weir Sta Rgt (m)     |             | Flow Area (m2)      | 31.67        | 29.38        |
| Weir Submerg         |             | Froude # Chl        | 0.83         | 0.93         |
| Weir Max Depth (m)   |             | Specif Force (m3)   | 89.60        | 88.39        |
| Min El Weir Flow (m) | 31.53       | Hydr Depth (m)      | 2.38         | 2.21         |
| Min El Prs (m)       | 31.03       | W.P. Total (m)      | 18.06        | 17.72        |
| Delta EG (m)         | 0.05        | Conv. Total (m3/s)  | 2093.3       | 1871.3       |
| Delta WS (m)         | 0.27        | Top Width (m)       | 13.30        | 13.30        |
| BR Open Area (m2)    | 58.52       | Frctn Loss (m)      | 0.02         | 0.00         |
| BR Open Vel (m/s)    | 4.32        | C & E Loss (m)      | 0.01         | 0.01         |
| Coef of Q            |             | Shear Total (N/m2)  | 63.29        | 74.91        |
| Br Sel Method        | Energy only | Power Total (N/m s) | 0.00         | 0.00         |

Plan: Pp7 Cacarello monte RS: 5.11 Profile: T=500

| E.G. US. (m)         | 30.09       | Element             | Inside BR US | Inside BR DS |
|----------------------|-------------|---------------------|--------------|--------------|
| W.S. US. (m)         | 29.20       | E.G. Elev (m)       | 30.09        | 30.05        |
| Q Total (m3/s)       | 143.00      | W.S. Elev (m)       | 29.20        | 29.03        |
| Q Bridge (m3/s)      | 143.00      | Crit W.S. (m)       | 28.91        | 28.91        |
| Q Weir (m3/s)        |             | Max Chl Dpth (m)    | 2.57         | 2.40         |
| Weir Sta Lft (m)     |             | Vel Total (m/s)     | 4.19         | 4.49         |
| Weir Sta Rgt (m)     |             | Flow Area (m2)      | 34.16        | 31.88        |
| Weir Submerg         |             | Froude # Chl        | 0.83         | 0.92         |
| Weir Max Depth (m)   |             | Specif Force (m3)   | 104.86       | 103.56       |
| Min El Weir Flow (m) | 31.53       | Hydr Depth (m)      | 2.57         | 2.40         |
| Min El Prs (m)       | 31.03       | W.P. Total (m)      | 18.44        | 18.09        |
| Delta EG (m)         | 0.04        | Conv. Total (m3/s)  | 2342.4       | 2113.8       |
| Delta WS (m)         | 0.17        | Top Width (m)       | 13.30        | 13.30        |
| BR Open Area (m2)    | 58.52       | Frctn Loss (m)      | 0.02         | 0.00         |
| BR Open Vel (m/s)    | 4.49        | C & E Loss (m)      | 0.01         | 0.00         |
| Coef of Q            |             | Shear Total (N/m2)  | 67.72        | 79.08        |
| Br Sel Method        | Energy only | Power Total (N/m s) | 0.00         | 0.00         |