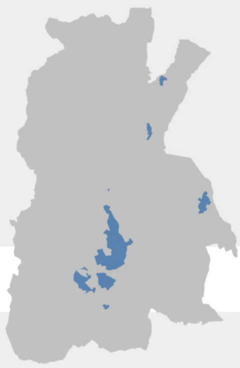
Comune di Barberino di Mugello

Città Metropolitana di Firenze

PO PIANO OPERATIVO



Legge regionale 10 novembre 2014, n. 65

IDR.01 RELAZIONE IDROLOGICA IDRAULICA

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Sommario

- **Appendice 1** - Outputs grafici e numerici delle simulazioni effettuate in regime di moto vario con il software Hec-Ras;

- **Appendice 2** (SU DVD-ROM) - Outputs in formato raster relativi ai battenti, ai livelli, alle velocità e alla magnitudo. Elaborazioni in formato .shp file relative alla pericolosità idraulica, alle aree presidiate dai sistemi arginali e alle aree di fondovalle fluviale.

1 Introduzione

La presente relazione documenta ed illustra lo studio idrologico – idraulico redatto per conto Comune di Barberino di Mugello a supporto del Piano Operativo comunale.

In particolare, nell'ambito dell'indagine svolta, sono state condotte analisi e verifiche di sussistenza del rischio idraulico di allagamento dei seguenti corsi d'acqua:

- Fiume Sieve
- Fosso Scopicci
- Fosso Visano
- Fosso della Mulinaccia
- Fosso MV16963
- Fosso MV15739
- Fosso MV15122
- Fosso MV12865
- Fosso MV15982
- Fosso Ornellaio

Per gli altri corsi d'acqua ricadendenti nel Comune di Barberino del Mugello si è fatto riferimento ai risultati delle analisi idrologico idrauliche condotte a supporto di studi[1] recentemente approvati dal Settore Genio Civile Valdarno Superiore.

1.1 Criteri operativi e obiettivi dello studio

Il presente studio idrologico-idraulico, conformemente a quanto prescritto dal quadro normativo di riferimento, dettagliatamente descritto nei paragrafi seguenti, si è posto l'obiettivo di valutare l'effettivo livello di rischio idraulico sussistente allo stato attuale nelle aree interessate da previsioni urbanistiche in relazione ai potenziali fronti di esondazione del reticolo idrografico circostante per eventi di piena con tempo di ritorno pari a 30 e 200 anni.

Per poter redigere le carte della pericolosità da alluvioni, è stato necessario valutare preliminarmente gli idrogrammi di piena attesi nelle sezioni di interesse dei tratti dei corsi

[1] - Piano Strutturale Intercomunale del Mugello.
- Integrazione del Piano Strutturale Intercomunale del Mugello ai fini dell'adozione del secondo stralcio - parco Cafaggiolo.

d'acqua esaminati corrispondenti ad eventi meteorici estremi (rispettivamente con tempo di ritorno trentennale e duecentennale) per varie durate di precipitazione.

In base alle diverse configurazioni morfologiche dei singoli corsi d'acqua, per effettuare le simulazioni numeriche inerenti agli eventi di piena considerati sono stati allestiti più modelli matematici in regime di moto vario, diversificati al fine di mantenere il più possibile un livello di significatività omogeneo dei risultati. A tale scopo è stato utilizzato il software HEC-RAS vers. 6.4.1, nella opzione relativa al regime di moto vario, con schematizzazione accoppiata 1-D in alveo e puramente 2-D extra-alveo, in modo da poter valutare opportunamente gli effetti di laminazione e propagazione delle portate di piena nelle aree di naturale esondazione del corso d’acqua.

La perimetrazione delle “*aree a pericolosità per alluvioni frequenti*”, delle “*aree a pericolosità per alluvioni poco frequenti*”, nonché delle aree a diversa “*magnitudo idraulica*” (combinazione del battente e della velocità della corrente associata allo scenario relativo alle alluvioni poco frequenti), definite ai sensi della L.R. 41/2018, è stata infine condotta con strumenti CAD/GIS sulla base dei risultati raster forniti direttamente dal modulo “*RAS Mapper”* del software HEC-RAS.

Giova comunque precisare che la procedura adottata ha assunto alcune irrinunciabili ipotesi di lavoro circa la non trattazione di fenomeni collaterali che possono aver luogo contestualmente agli eventi di piena, ma aventi carattere di ulteriore eccezionalità rispetto al mero evento idrologico estremo.

In sostanza si assumono ipotesi di regolare operatività e comportamento della rete drenante, forzate dall’imponderabilità spaziale e temporale dei casi di anomalo funzionamento delle difese o delle altre infrastrutture idrauliche coinvolte, o addirittura di totale perdita di funzionalità (distruzione) delle stesse. Eventi, questi, che peraltro, non essendo in generale obbligatoriamente causati dal mero accadimento dell’evento meteorologico estremo, se considerati avvenire contestualmente ad esso determinerebbero una sicura diminuzione della probabilità congiunta dell’evento combinato[2] portando a risultati, in termini di allagabilità e di tiranti idraulici, corrispondenti in realtà ad eventi più rari di quelli di riferimento imposti dalla normativa. In ragione delle suddette considerazioni si assume dunque che:

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[2] Ad esempio: piena e collasso arginale; piena e occlusione della luce di un ponte; piena e frana che limita una sezione di deflusso; ecc.

a) le strutture idrauliche di contenimento (argini, muri di sponda, ecc.) siano considerate tracimabili ma senza collasso della struttura. Analogamente non si considerano fenomeni di collasso dovuti a processi di mobilità dell'alveo o a moti di filtrazione;
b) per altre strutture di contenimento non idrauliche (rilevati stradali e ferroviari), non è previsto il collasso anche in caso di tracimazione, valutandone nel contempo il grado di permeabilità macroscopico dovuto agli attraversamenti;
c) si esclude la possibilità di ostruzione delle opere d'arte interferenti per trasporto in flottazione;
d) non si considera l'influenza di allagamenti o ristagni dal reticolo scolante minore o da altri sistemi di drenaggio.

2 Quadro normativo di riferimento

L'attività conoscitiva, di verifica e prescrittiva, sviluppata nel seguente lavoro è stata uniformata al quadro normativo di riferimento vigente a livello nazionale e regionale ed in particolare alle seguenti norme:

- Piano di Gestione del Rischio Alluvioni (PGRA) del Distretto Idrografico dell'Appennino Settentrionale di cui alla Direttiva 2007/60/CE, D.Lgs. 152/2006 e D.Lgs. 49/2010, approvato con delibera del Comitato Istituzionale n. 235 del 3 marzo 2016;
- L.R. 41 del 24/07/2018 "Disposizioni in materia di rischio di alluvioni e di tutela dei corsi d'acqua in attuazione del decreto legislativo 23 febbraio 2010, n. 49 (Attuazione della direttiva 2007/60/CE relativa alla valutazione e alla gestione dei rischi di alluvioni). Modifiche alla l.r. 80/2015 e alla l.r. 65/2014".
- D.P.G.R. del 30 gennaio 2020, n. 5/R Regolamento di attuazione dell'articolo 104 della legge regionale 10 novembre 2014, n. 65 (Norme per il governo del territorio) contenente disposizioni in materia di indagini geologiche, idrauliche e sismiche.

2.1 Adempimenti rispetto la L.R. 41 del 24.07.2018. Disposizioni in materia di rischio di alluvioni e di tutela dei corsi d'acqua in attuazione del decreto legislativo 23 febbraio 2010, n. 49 (Attuazione della direttiva 2007/60/CE relativa alla valutazione e alla gestione dei rischi di alluvioni).

Con la L.R. 41/2018 la Regione disciplina la gestione del rischio alluvione in relazione alle trasformazioni del territorio e la tutela dei corsi d'acqua.

In particolare, detta normativa regola gli interventi edilizi ammessi nelle aree a pericolosità idraulica e le eventuali opere di gestione del rischio alluvioni che devono essere realizzate prima o contestualmente all'attuazione delle trasformazioni urbanistico-edilizie.

L'inviluppo dei risultati ottenuti per ciascun tempo di ritorno (in particolare in termini di livelli idrometrici massimi raggiunti in alveo e nelle aree di potenziale esondazione) ha costituito la base numerica per il tracciamento delle aree a pericolosità per alluvioni con riferimento al DTM Lidar, liberamente scaricabile dal portale cartografico regionale.

Pertanto, sono state individuate:

- le aree a pericolosità per alluvioni frequenti ($Tr \leq 30$ anni);
- le aree a pericolosità alluvioni poco frequenti ($30 < Tr \leq 200$ anni);

Altresì, come richiesto dalla normativa vigente, si è determinata la "magnitudo idraulica" che, con riferimento allo scenario duecentennale, è definita attraverso la combinazione del battente e della velocità della corrente, così come di seguito indicato:

- "*magnitudo idraulica moderata*": valori di battente inferiore o uguale a 0,5 metri e velocità inferiore o uguale a 1 m/s. Nei casi in cui la velocità non sia determinata, battente uguale o inferiori a 0,3 m;
- "*magnitudo idraulica severa*": valori di battente inferiore o uguale a 0,5 metri e velocità superiore a 1 m/s oppure battente superiore a 0,5 m e inferiore o uguale a 1 m e velocità inferiore o uguale a 1 m/s. Nei casi in cui la velocità non sia determinata, battente superiore a 0,3 m e inferiore o uguale a 0,5 m;
- "*magnitudo idraulica molto severa*": battente superiore a 0,5 m e inferiore o uguale a 1 m e velocità superiore a 1 m/s oppure battente superiore a 1 m. Nei casi in cui la velocità non sia determinata, battenti superiori a 0,5 metri.

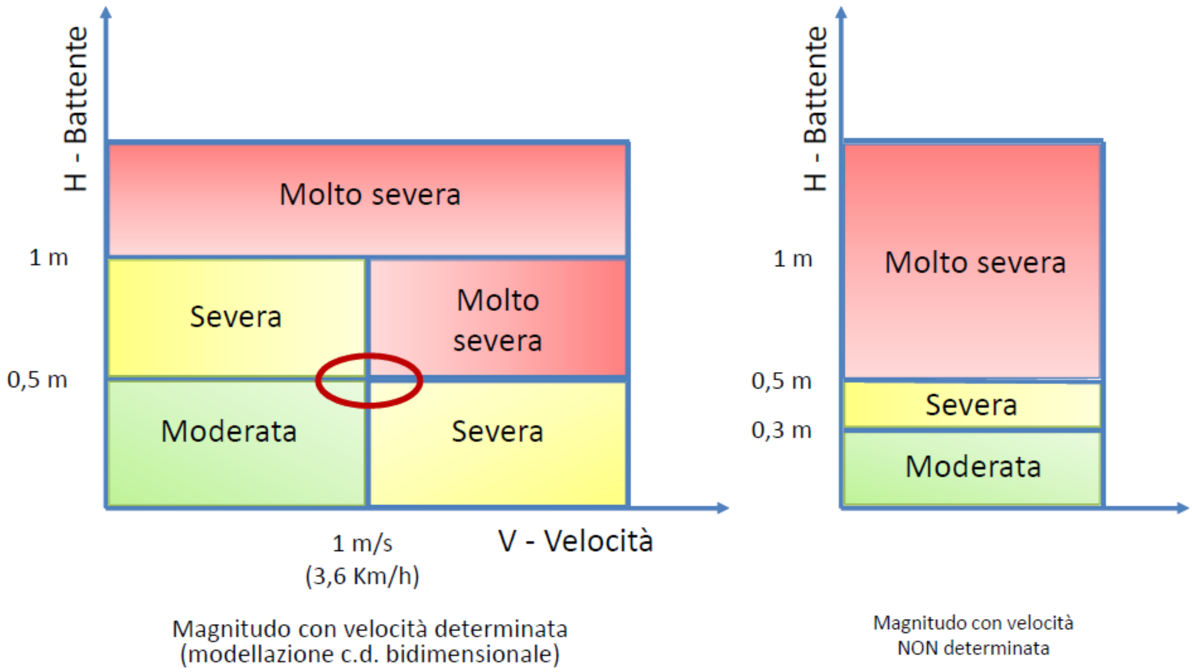

Figura 2-1: magnitudo idraulica: la combinazione del battente e della velocità della corrente in una determinata area, associata allo scenario relativo alle alluvioni poco frequenti (art. 2 L.R. 41/2018)

2.2 Adempimenti rispetto al D.P.G.R. del 30 gennaio 2020, n. 5/R Regolamento di attuazione dell'articolo 104 della legge regionale 10 novembre 2014, n. 65 (Norme per il governo del territorio) contenente disposizioni in materia di indagini geologiche, idrauliche e sismiche.

Il regolamento 5/R del 30 gennaio 2020 disciplina, in sede di formazione degli strumenti di pianificazione territoriale e urbanistica, i seguenti aspetti:

a) le direttive per la predisposizione delle indagini che verificano la pericolosità del territorio sotto il profilo geologico, idraulico e sismico, le aree esposte a rischio e la fattibilità degli interventi di trasformazione in relazione all'obiettivo della mitigazione dei rischi;

b) le procedure per il deposito delle indagini presso le strutture regionali competenti;

c) le procedure per lo svolgimento del controllo delle indagini da parte della struttura regionale competente;

d) i criteri per l'individuazione delle classi di pericolosità o di rischio, sotto il profilo geologico e sismico.

Al punto 2.2 e al punto 3.1 dell'Allegato A - *Direttive tecniche per lo svolgimento delle indagini geologiche, idrauliche e sismiche*, vengono indicati gli elaborati cartografici da redigere relativamente alle indagini idrauliche:

- Carta della pericolosità da alluvioni;
- Carta della magnitudo idraulica;
- Carta dei battenti;
- Carta della velocità della corrente;
- Carta delle aree presidiate da sistemi arginali, comprensiva delle aree di fondovalle fluviale;
- Aree ed elementi esposti a fenomeni alluvionali.

3 Analisi idrologica

3.1 Considerazioni generali circa la stima degli idrogrammi di piena

Per individuare la pericolosità idraulica è stato necessario preliminarmente valutare gli idrogrammi di piena di riferimento per i corsi d'acqua elencati in premessa (analisi "idrologica").

Come meglio specificato nei paragrafi seguenti, gli idrogrammi stimati con riferimento ai tempi di ritorno 30 e 200 anni sono stati utilizzati come input idrologico nei successivi modelli di simulazione numerica delle correnti di piena.

Per la stima stima degli idrogrammi di progetto associati ai diversi tempi di ritorno per i bacini idrografici in esame, che risultano essere non strumentati, si è fatto riferimento all'analisi idrologica sviluppata a suppporto del piano Strutturale Intercomunale del Mugello, recentemente validata dal Settore Genio Civile Valdarno Superiore.

Per i corsì d'acqua non presi in esame nel predetto studio, la stima degli idrogrammi di piena è stata eseguita mediante una modellistica idrologica afflussi-deflussi del tutto analoga, di tipo semidistribuito, considerando valida l'ipotesi che la portata defluente associata ad uno specifico tempo di ritorno sia determinata da una sollecitazione meteorica di pari probabilità di accadimento. In particolare, la trasformazione afflussi-deflussi, a meno del deflusso di base ritenuto trascurabile, viene descritta da un approccio idrologico costituito da due componenti in serie: un modello di infiltrazione basato sul metodo SCS–CN, due modelli di formazione della piena basati sull'idrogramma unitario istantaneo (IUH) adimensionale e sul metodo cinematico.

I passi per determinare l'idrogramma di piena di progetto per ogni assegnato tempo di ritorno sono:

- stima delle linee segnalatrici di possibilità pluviometrica (LSPP)[3];
- determinazione dello ietogramma di progetto: scelta della durata critica dell'evento e della distribuzione temporale delle precipitazioni;
- stima della pioggia effettiva;

3 All'aumentare dell'area interessata dalla precipitazione la probabilità di ottenere un'intensità media dell'evento estremo pari a quella puntuale diminuisce sensibilmente, soprattutto per eventi brevi che sono tendenzialmente più localizzati. Pertanto, solitamente, viene introdotto un coefficiente riduttivo da applicare alle altezze di pioggia che prende il nome di coefficiente di ragguaglio areale. Tuttavia, <u>nel presente studio si è cautelativamente assunto di non introdurre detto coefficiente.</u>

- stima della portata di progetto.

Di seguito verranno analizzati i seguenti elementi:

a) **Definizione degli afflussi meteorici:** determinazione della relazione tra altezze e durata di pioggia di assegnato tempo di ritorno per i bacini idrografici in esame (LSPP);
b) **Determinazione dello ietogramma di progetto:** scelta della durata critica dell'evento e della distribuzione temporale delle precipitazioni;
c) **Stima delle perdite idrologiche:** determinazione della quantità di precipitazione trattenuta dal terreno (perdite), con la conseguente determinazione della pioggia effettiva (o pioggia netta) che rappresenta il volume d'acqua che raggiunge per ruscellamento superficiale la rete di drenaggio fino alla sezione di chiusura, determinando l'evento di piena;
d) **Trasformazione afflussi-deflussi:** schematizzazione della risposta del singolo bacino idrografico alle sollecitazioni meteoriche, in funzione delle proprie caratteristiche fisiografiche e combinazione di tale risposta con la pioggia netta per stimare gli idrogrammi di piena.
e) **Propagazione delle onde di piena:** modellazione del fenomeno di trasferimento dell'onda di piena lungo il corso d'acqua.

3.2 Definizione degli afflussi meteorici

La forzante data dall'evento meteorico è schematizzata attraverso uno ietogramma sintetico ad intensità costante nel tempo e nello spazio, la cui frequenza viene stimata a partire dalle curve di possibilità pluviometrica ricavate con l'adattamento delle serie storiche reali alla distribuzione TCEV ("Two Components Extreme Value").

Dette curve sono espresse, per ciascun tempo di ritorno, nella classica equazione di forma monomia nella quale l'altezza di pioggia totale *h* [mm] è espressa in funzione della durata *d* [ore] dell'evento:

$$h = \mathrm{a} \cdot d^n$$

dove i parametri *a* e *n* sono desunti dallo studio promosso dalla Regione Toscana con DGRT 1133/2012 al fine di procedere ad un'implementazione e un aggiornamento del quadro conoscitivo idrologico del territorio toscano, con il quale si è provveduto ad aggiornare l'analisi di frequenza regionale delle precipitazioni estreme fino all'anno 2012 compreso (Referente: Prof. Enrica Caporali, Dipartimento di Ingegneria Civile e

Ambientale dell'Università degli Studi di Firenze). I dati pluviometrici sono liberamente consultabili nel sito della Regione Toscana nella sezione dedicata alla Difesa del Suolo (Figura 3-1). Ad oggi le nuove LSPP sono state ricavate per durate di precipitazione $d \geq 1$ ora ma, secondo le indicazioni fornite dagli estensori dello studio, sono estrapolabili con buona attendibilità fino a $d \geq 0.5$ ore.

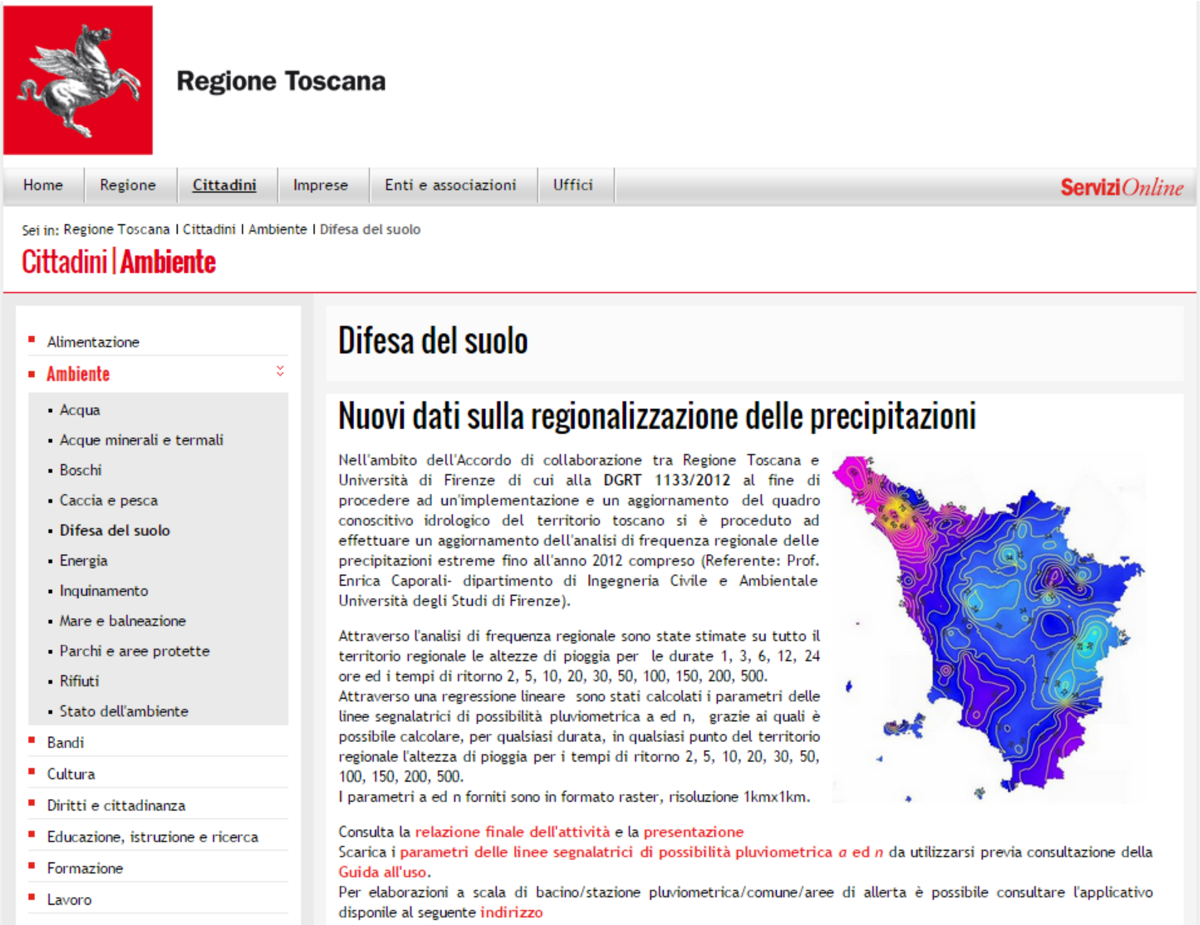

Figura 3-1: Sezione del sito della Regione Toscana dedicato ai nuovi dati di regionalizzazione delle precipitazioni.

Dal sito della Regione Toscana è possibile scaricare l'andamento spaziale dei parametri *a* e *n* con griglia di 1 km x 1 km per ciascuno dei tempi di ritorno 2, 5, 10, 20, 30, 50, 100, 150, 200 e 500 anni, desunto a partire dall'analisi TCEV delle altezze di pioggia osservate. I risultati resi disponibili in formato ASCII Grid. La Figura 3-2 mostra, a titolo di esempio, le griglie dei parametri *a* e *n* per il tempo di ritorno di 200 anni nell'intera regione.

I valori delle altezze di pioggia così calcolati sono validi, a rigore, solo per precipitazioni estreme puntuali, essendo stati calibrati a partire dai dati puntuali di pioggia (le LSPP sono tarate sulla base dei massimi annui misurati puntualmente in una determinata stazione pluviometrica).

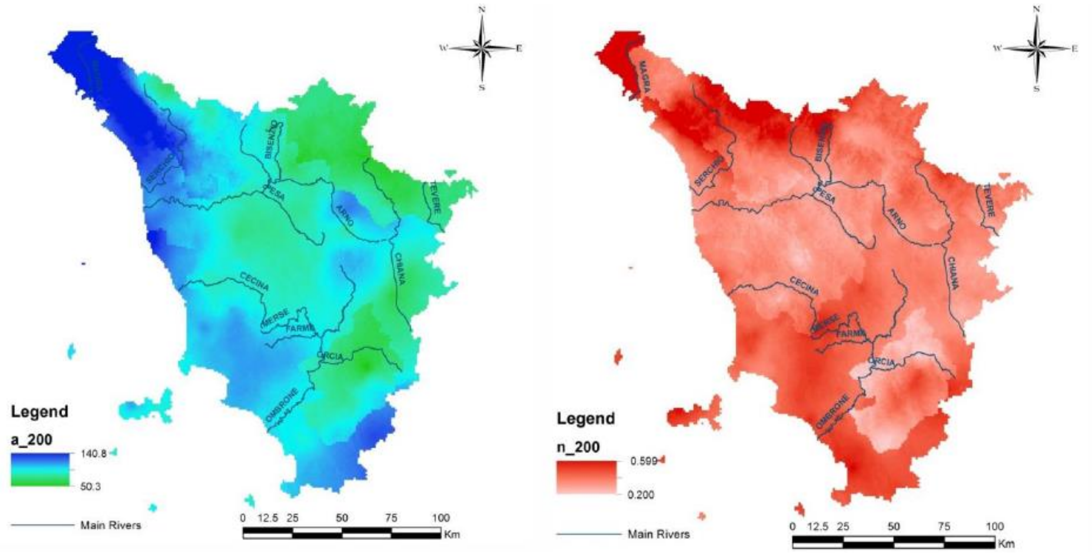

Figura 3-2: Spazializzazione sull'intera regione dei parametri “a” (a sinistra) e “n” (a destra) della Linea Segnalatrice di Possibilità Pluviometrica LSPP per il Tempo di ritorno 200 anni.

Per poter stimare gli afflussi meteorici sono stati innanzi tutto individuati i bacini idrografici (in particolare i sottobacini e gli interbacini del modello idrologico semidistribuito che sarà descritto in seguito) separati dalle linee di spartiacque desunte dal modello digitale del terreno.

In occasione delle analisi idrologiche idrauliche supporto del Piano Strutturale Intercomunale del Mugello (a cui si rinvia per maggiori dettagli), l'analisi dei dati pluviometrici regionali precedentemente descritti ha portato gli scriventi a individuare porzioni di territorio omogenee, rappresentate graficamente in Figura 3-3. Sono stati quindi calcolati, per ciascuna area omogenea e per i tempi di ritorno investigati (30 e 200 anni), i valori dei parametri *a* e *n* delle LSPP.

Nella tabella seguente si riportano i parametri delle curve di possibilità pluviometrica caratteristici del macro-bacini di interesse in cui ricade il Comune di Barberino di Mugello.

Tabella 3-1: parametri delle curve di possibilità pluviometrica impiegate nel modello idrologico

Zona omogenea	***TR 30 anni*** *(d > 0.5 ore)*		***TR 200 anni*** *(d > 0.5 ore)*	
	a	*n*	*a*	*n*
Sieve	*47.0862*	*0.27642*	*59.3565*	*0.30777*

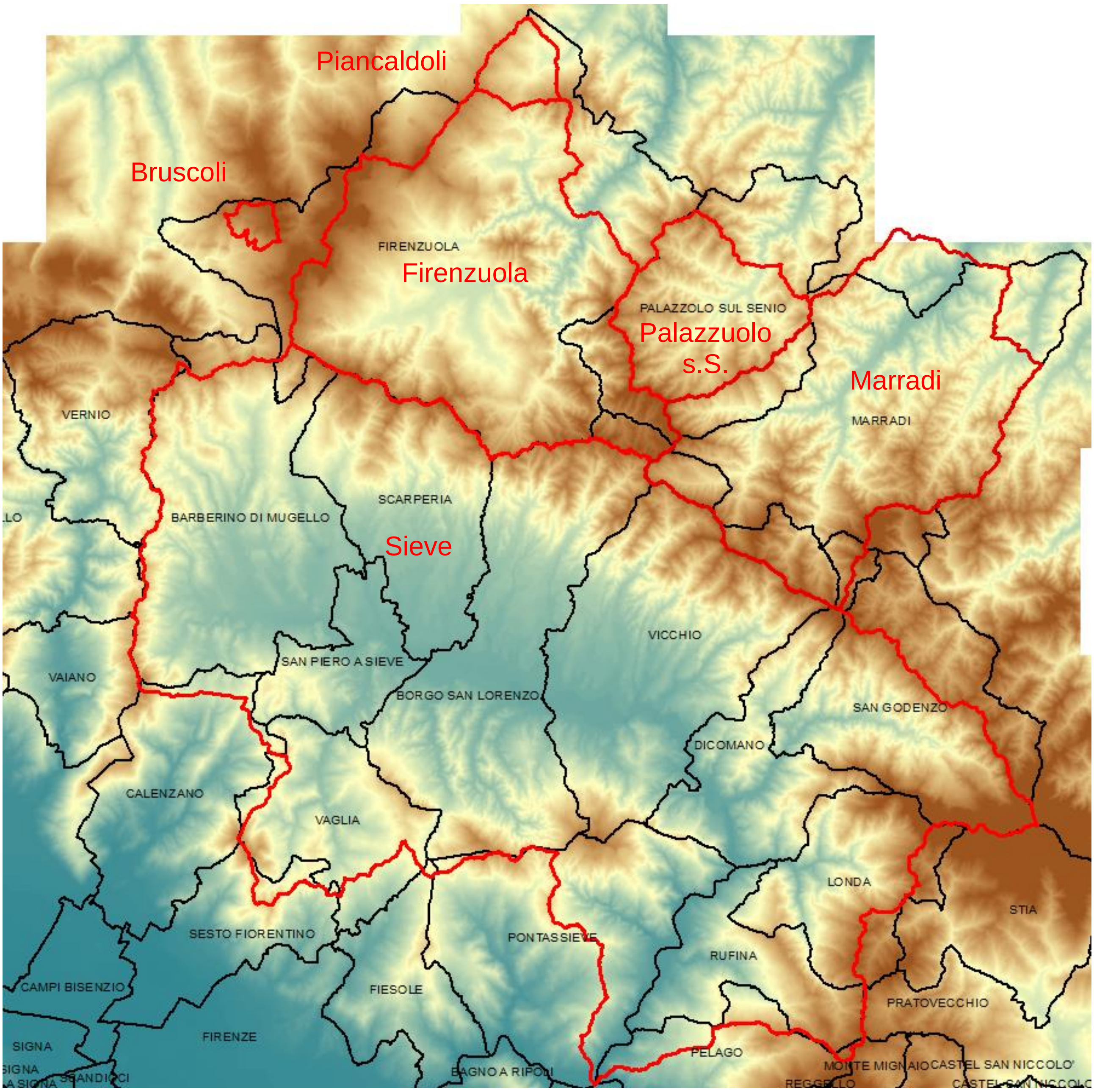

Figura 3-3: Ambito idrologico analizzato (in rosso i macro-bacini idrografici individuati).

3.3 Determinazione dello ietogramma di progetto

La determinazione dello ietogramma di progetto per un prefissato tempo di ritorno richiede l'individuazione della durata dello ietogramma (durata critica) nonché della distribuzione temporale degli spessori di pioggia stimati dalla corrispondente linea segnalatrice di possibilità pluviometrica areale.

La durata della pioggia viene determinata assumendo che la portata al colmo con assegnato tempo di ritorno, T_r, sia la maggiore tra le portate al colmo determinate da tutti gli eventi di pioggia a intensità costante ricavati dalla linea di possibilità pluviometrica areale. È possibile determinare la durata critica utilizzando diverse metodologie in funzione della modellistica afflussi-deflussi impiegata. In particolare, nel caso dei metodi empirici tradizionali che si basano sul metodo razionale tale durata è data dal tempo di corrivazione del bacino, mentre nel caso di uso di modelli idrologici in grado di descrivere la trasformazione afflussi-deflussi, essa può essere stimata mediante un insieme di simulazioni. Nel presente studio è stato seguito il secondo approccio, utilizzando il primo, per una prima stima attorno alla quale determinare il corretto valore di durata critica.

In particolare, sulla base del concetto di evento critico, la determinazione della durata critica mediante simulazione idrologica consiste nell'effettuare un insieme di simulazioni con un modello afflussi-deflussi avente come dati di ingresso una serie di ietogrammi di pioggia di durata crescente, ottenuti distribuendo in modo uniforme nel tempo lo spessore di pioggia ricavato dalla LSPP areale relativa ad un determinato tempo di ritorno. All'aumentare della durata dell'evento, si ottengono idrogrammi di piena il cui picco assume valori crescenti fino ad un valore massimo, per poi decrescere. La durata dell'evento che corrisponde all'idrogramma con il massimo valore della portata di picco viene assunta come durata critica.

A titolo di esempio, vengono di seguito riportati i risultati delle simulazioni effettuate per un generico bacino idrografico, considerando, a parità di tempo di ritorno, ietogrammi di pioggia uniforme di differenti durate. Come si può vedere dalla Figura 3-4, la durata che massimizza la portata al colmo è quella pari a 1 ora che pertanto è assunta come durata critica del bacino.

Nota la pioggia areale, per la determinazione del deflusso diretto è necessario valutare la pioggia effettiva e, quindi, la quantità di pioggia che viene assorbita dal suolo e quella intercettata dalla vegetazione, mentre la quantità di pioggia persa per evapotraspirazione è trascurabile per eventi meteorici particolarmente intensi (Maione, 1977). Per effettuare tale stima, è stato applicato il metodo del Curve Number proposto dal Soil Conservation Service (1972).

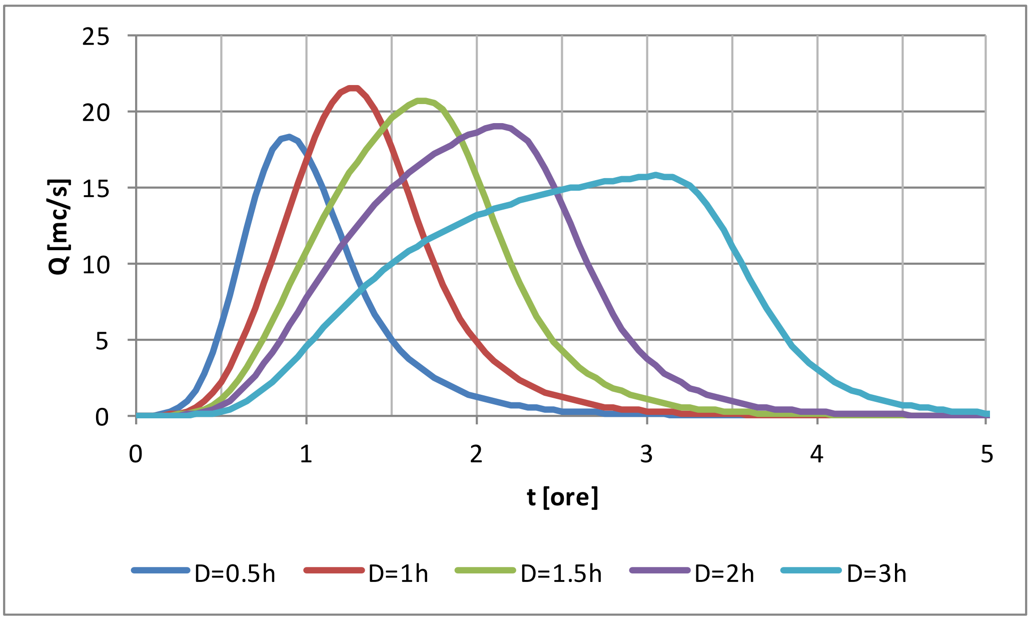

Figura 3-4: Simulazioni con ietogramma costante e diverse durate per la scelta della durata critica di un generico bacino idrografico

3.4 Stima delle perdite idrologiche mediante il metodo del Curve Number

La stima delle perdite idrologiche è stata effettuata con il metodo del Curve Number del SCS (*Soil Conservation Service).*

Questo metodo considera il deflusso superficiale come differenza fra le precipitazioni e le perdite, dove in queste ultime si inglobano, oltre alle perdite per infiltrazione, anche quelle per intercettazione da parte delle piante, quelle per accumulo sulle depressioni superficiali e quelle per l'imbibizione iniziale del terreno. L'ipotesi di base del metodo è che il rapporto fra il volume defluito ed il volume di pioggia depurato delle perdite iniziali rimanga, in ogni istante, uguale al rapporto fra il volume infiltrato ed il volume massimo teorico delle perdite:

$$\frac{P_e}{P - I} = \frac{F_a}{S}$$

dove P_e è la precipitazione efficace per il deflusso, P la precipitazione lorda, I_a le perdite iniziali, F_a il volume specifico infiltrato ed S il volume specifico di saturazione del terreno. L'equazione di continuità si può riscrivere per questo modello come segue:

$$P = P_e + I_a + F_a$$

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nella quale le perdite iniziali (o *Initial Abstraction*) è possibile stimarle in funzione del volume specifico di saturazione tramite la relazione:

$$I_a = \beta \cdot S$$

dove si pone normalmente $\beta = 0.2$. Dalla combinazione delle due equazioni di continuità precedentemente scritte si ottiene l'espressione della precipitazione efficace:

$$P_e = \frac{(P - I_a)^2}{P - I_a + S}$$

nella quale il volume specifico di saturazione S dipende dalla natura geologica del terreno e dall'uso del suolo, caratteristiche esprimibili in funzione del coefficiente Curve Number CN secondo la relazione:

$$S = 254 \cdot \left(\frac{100}{CN} - 1\right)$$

Il coefficiente CN può assumere valori compresi tra 0 (suolo completamente permeabile) e 100 (suolo completamente impermeabile) ed è stimabile tramite delle tabelle elaborate dalla US Soil Conservation Service a partire dalle caratteristiche geologiche, di uso del suolo e del livello di umidità antecedente l'inizio delle precipitazioni. Quest'ultimo fattore è schematizzabile in tre condizioni: terreno ben asciutto ($CN\ I$), terreno mediamente umido ($CN\ II$) e terreno molto umido ($CN\ III$).

Nel presente studio, si è fatto cautelativamente riferimento alle condizioni di terreno molto umido ($CN\ III$), con il parametro $CN\ II$ ottenuto, per i bacini di interesse, mediante la procedura descritta al paragrafo seguente e $CN\ III$ *determinato* con la seguente formula:

$$CN_{III} = \frac{23\ \mathrm{CN}_{II}}{(10 + 0.13\ CN_{II})}$$

3.4.1 Caratterizzazione del parametro di assorbimento CN per i bacini idrografici in esame

La determinazione del parametro di assorbimento *CN* (U.S. Dept. Agric., Soil Conservation Service, 1972) è stata raggiunta attraverso l'analisi degli aspetti litologici, pedologici, vegetazionali e di uso del suolo del bacino.

Per la determinazione del *CN* si è utilizzato lo shape file predisposto per l'intero territorio regionale dal Dipartimento di Ingegneria Civile e Ambientale dell'Università degli studi di Firenze (DICEA, referente Prof. Fabio Castelli), liberamente consultabile all'indirizzo http://www.regione.toscana.it/-/implementazione-di-modello-idrologico-distribuito-per-il-territorio-toscano.

Nel caso in cui nel bacino siano presenti differenti tipi di terreno o questo sia utilizzato in differenti modi, si ricorre ad un valore medio di CN. Come suggerito da Mancini e Rosso (1989), si utilizza il valore medio a scala di bacino del parametro S, mediante un'integrazione spaziale dei valori puntuali, anziché un'integrazione dei valori di CN a causa della non linearità dell'equazione che lega i due parametri.

Quindi si ha:

$$\overline{S} = \frac{S_1 A_1 + S_2 A_2 + ... + S_i A_i}{A_1 + A_2 + ... + A_i} \quad (3.6)$$

dove Si rappresenta il valore di S per l'area omogenea Ai

Tabella 3-2: valori del parametro CN III per i sottobacini e gli interbacini di interesse.

Elemento	Area (km2)	CN
MV16963_I2	0.36	92.21
MV12865	0.24	86.4
MV16963_I1	0.14	92.35
MV15982	0.11	91.7
MV15122	0.67	88.4
MV15739	0.1	89.97
MV15123	0.1	88
MV18795	0.36	88.1

3.5 La trasformazione afflussi – deflussi

3.5.1 Il metodo dell'idrogramma unitario istantaneo (IUH)

Nel vasto panorama dei modelli di formazione dei deflussi, che si propongono di rappresentare matematicamente i processi idrologici che si manifestano in un bacino idrografico descrivendone il comportamento con un operatore che lega la funzione di distribuzione temporale delle piogge effettive (ingresso al sistema) ed il corrispondente idrogramma dei deflussi diretti (risposta del sistema), è stata scelta la metodologia basata sull'idrogramma unitario istantaneo (IUH). Il metodo si basa sulle ipotesi di linearità e stazionarietà del bacino ed effettua la combinazione tra pioggia in ingresso e IUH per il calcolo della portata diretta. In altre parole, la risposta *Q(t)* ad una sollecitazione meteorica di intensità *p(t)* variabile nel tempo, ma supposta costante su tutti i punti del bacino, è data dall'integrale di convoluzione:

$$Q(t) = \int_0^t p(\tau)h(t-\tau)d\tau$$

dove *p(t)=A i(t)* è la portata di afflusso meteorico al generico tempo *t* e la funzione *h(t)*, che prende il nome di IUH, è definita come l'idrogramma dei deflussi generato da un'ipotetica pioggia efficace di altezza unitaria ed intensità costante, distribuita uniformemente sul bacino, e caduta in un intervallo di tempo unitario (immissione di tipo impulsivo).

La funzione *h(t)* può essere stimata mediante numerosi approcci, tra cui il metodo dell'invaso lineare, il metodo di Nash, il metodo geomorfologico oppure facendo ricorso all'idrogramma unitario del SCS.

3.5.1.1 L'idrogramma unitario del Soil Conservation Service (IUH-SCS)

L'idrogramma SCS è un idrogramma adimensionale definito dal SCS in base all'analisi di idrogrammi di piena in uscita dalla sezione di chiusura di numerosi bacini idrografici strumentati, di dimensioni grandi e piccole. Esso ha un vasto campo di applicazioni pratiche nel campo delle trasformazioni afflussi deflussi per la sua semplicità d'uso e per la sua generalità. Questo IUH presenta il 37.5% del suo volume prima dell'istante di picco; inoltre, i valori della portata di picco e dell'istante T_p sono stati ricavati adottando un modello semplificato di idrogramma triangolare di base 2.67 T_p (Figura 3-5).

Per la definizione dell'idrogramma unitario adimensionale del SCS per è necessario specificare il tempo di ritardo T_l del bacino idrografico, che può essere valutato separatamente mediante relazioni empiriche valide per l'area in esame oppure, in assenza di esse, a partire dal tempo di corrivazione secondo la relazione:

$$T_l = \frac{3}{5} T_c$$

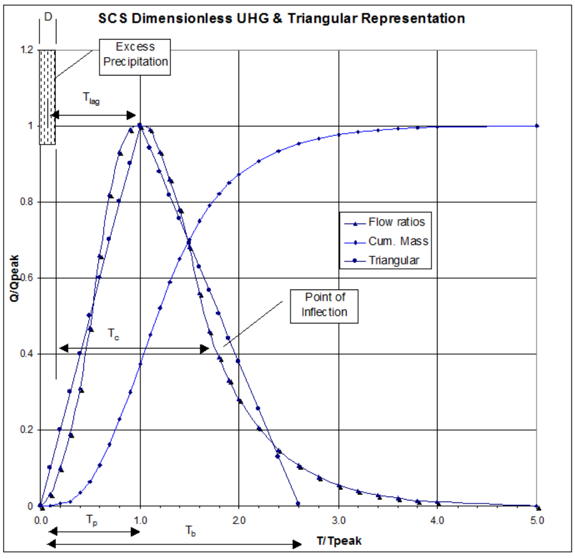


Figura 3-5: IUH-SCS

3.5.2 Il Metodo Cinematico (Kinematic Wave)

Il metodo cinematico utilizza l'equazione di continuità e l'approssimazione cinematica delle equazioni complete di De Saint Venant per trasformare la precipitazione efficace in deflusso superficiale. Il bacino viene rappresentato tramite un modello concettuale in cui possono essere definiti due piani rettangolari, percorsi dal deflusso superficiale (*overland flow planes*) e canali che raccolgono il deflusso proveniente dai piani rettangolari (Figura 3-6).

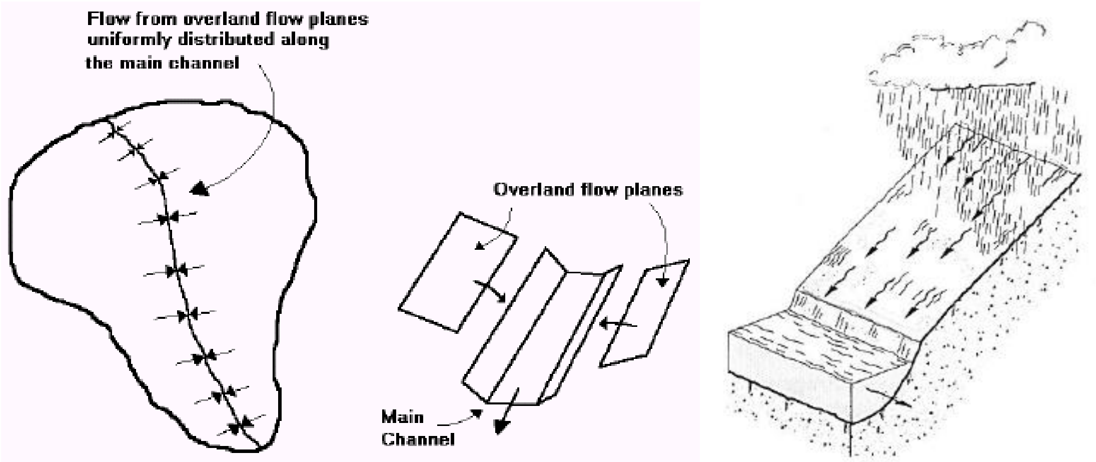


Figura 3-6: schematizzazione cinematica di un interbacino in canali e aree di drenaggio

L'equazione che modella il fenomeno di trasferimento della massa liquida sia sui versanti che nell'alveo del corso d'acqua è l'equazione dell'onda cinematica:

$$\frac{\partial A}{\partial t} + \alpha m A^{(m-1)} \frac{\partial A}{\partial x} = q$$

dove *A* è l'area liquida della sezione di deflusso, *q* la portata continua in ingresso lungo l'ascissa *x* del corso d'acqua, *a* ed *m* due parametri univocamente determinati dalla geometria e dalla scabrezza della sezione di deflusso, essendo per ipotesi, nel metodo cinematico, $Q = aA^m$.

Il coefficiente di scabrezza di Manning relativo al moto sui versanti è maggiore rispetto quello utilizzato negli alvei naturali e può essere ricavato da specifiche tabelle disponibili in letteratura.

3.6 Stima della portata di progetto, analisi preliminari e scelta del modello idrologico

La scelta del tipo di schematizzazione per rappresentare la risposta di un bacino idrografico sollecitato da un evento meteorico è condizionata sia dall'obiettivo dell'analisi che si vuole effettuare sia dalla disponibilità dei dati. Le metodologie comunemente utilizzate per rappresentare la trasformazione afflussi-deflussi possono essere distinte in relazioni matematiche e modelli matematici. Le relazioni matematiche, nelle quali il tempo non compare come variabile, sono comunemente usate quando non è necessario descrivere l'andamento temporale delle grandezze. I modelli matematici, viceversa, si usano quando le quantità in gioco sono funzioni del tempo e non è possibile trascurare l'influenza esercitata sui valori di una grandezza da quelli che la stessa ha assunto in precedenza.

3.6.1 Relazioni matematiche

Le relazioni matematiche forniscono solo alcune caratteristiche dell'idrogramma di progetto quali l'istante della portata al colmo, la portata al colmo o la durata. I vari metodi utilizzati nella pratica idrologica per la schematizzazione della trasformazione afflussi-deflussi si basano su alcune ipotesi semplificative che sono quelle su cui si fonda il metodo razionale e, in particolare, sono:

- per un fissato tempo di ritorno il massimo della portata al colmo di piena è prodotto dall'evento di pioggia, uniforme nello spazio e nel tempo, ricavato dalla corrispondente curva di possibilità pluviometrica ed avente una durata uguale al tempo di corrivazione del bacino;
- il picco dell'idrogramma di piena si osserva all'istante in cui cessa la pioggia;
- il picco di piena ha il medesimo tempo di ritorno della precipitazione che lo ha generato;
- la formazione della piena nel bacino ed il suo trasferimento lungo il reticolo idrografico avviene senza la formazione di significativi invasi.

Tra le varie relazioni matematiche, si ricorda quella di Ghirardelli che assume l'idrogramma di piena di forma triangolare, con tempo di risalita e di discesa pari al tempo di corrivazione. Il valore della portata al colmo è quindi dato da:

$$Q_c = \frac{1}{3.6}\frac{EA}{T_c}$$

dove *E* è la pioggia areale netta, denominata anche eccesso di pioggia, espressa in mm; T_c è il tempo di corrivazione, espresso in ore; e A è la superficie del bacino espressa in km^2.

Nel caso di bacini idrografici strumentati, se si dispone delle osservazioni relative ad alcuni idrogrammi di piena salienti, il calcolo del tempo di corrivazione, T_c, può essere effettuato mediante lo ietogramma di pioggia effettiva e l'idrogramma di deflusso diretto. In particolare, i metodi di stima più ricorrenti per T_c sono (Singh, 1988):

- il tempo che intercorre tra il centroide della pioggia effettiva e il punto di inflessione del ramo decrescente dell'idrogramma di portata diretta;
- il tempo tra la fine della pioggia effettiva e il punto di inflessione del ramo decrescente dell'idrogramma di portata diretta.

Per bacini idrografici non strumentati, invece, la stima del tempo di corrivazione dipende da relazioni empiriche che esprimono il legame tra T_c ed alcune grandezze caratteristiche del bacino di facile determinazione. Tra le relazioni empiriche maggiormente utilizzate, ricordiamo la formula di Giandotti (1934), ricavata attraverso dati relativi a diversi bacini italiani (Dora Baltea, Trebbia, Taro, Panaro, Reno Tevere, Arno, Po), che stima T_c in ore come:

$$T_c = \frac{4A^{0.5} + 1.5L}{0.8H^{0.5}}$$

con A area del bacino in km^2, L lunghezza dell'asta fluviale principale in km e H altezza media del bacino rispetto alla sezione di chiusura espressa in metri. L'altezza media del bacino può essere stimata mediante un modello digitale del terreno.

Altre formule disponibili per la stima del tempo di corrivazione e ottenute su bacini aventi diverse caratteristiche fisiografiche sono quelle di Kirpich, Viparelli, Pezzoli, Aronica e Paltrinieri, Watt & Chow, Chow, NCRS-Lag method, Tournon, Puglisi e Zanframundo, Fattorelli e Marchi:

- **Kirpich,** analizzando sei piccoli bacini americani di area compresa tra 0.0051 e 0.433 Km^2, ha ricavato la seguente relazione, successivamente corretta da Rowe e Thomas:

  $$t_c = 0.000325\left(\frac{L}{\sqrt{i_a}}\right)^{0.77}$$

  in cui t_c è espresso in ore, e L è la lunghezza dell'asta principale, a partire dallo spartiacque, espressa in metri e i_a è la sua pendenza.

- **Viparelli** calcola il tempo di corrivazione t_c come il rapporto tra la lunghezza del percorso idraulicamente più lungo che deve seguire la particella d'acqua per raggiungere la sezione di chiusura e stabilire una velocità media di trasferimento *V* della particella nel suddetto percorso:

$$t_c = \frac{L}{V}$$

e suggerisce di utilizzare valori della velocità *V* caratteristica per correnti di piena variabili tra 1 e 1.3 m/s, specie per corsi d'acqua pedemontani.

- **Pezzoli** propone invece la seguente espressione del tempo di corrivazione, dedotta da misure su piccoli bacini piemontesi:

$$t_c = 0.055 \frac{L}{\sqrt{i_a}}$$

in cui *tc* è espresso in ore, *L* è la lunghezza dell'asta principale espressa in Km e i_a è la pendenza media (m/m) dell'asta principale.

- Una formula analoga è quella di **Watt e Chow**, ottenuta utilizzando dati relativi a 44 bacini canadesi di area compresa tra 0.01 e 5840 Km^2 e caratterizzati da valori della pendenza i_a variabili tra 0.00121 e 0.0978:

$$t_L = a\left(\frac{L}{\sqrt{i_a}}\right)^b$$

in cui t_L (tempo di ritardo o Lag) è espresso in ore, *L* è la lunghezza dell'asta principale espressa in m, e le costanti *a* e *b* assumono rispettivamente il valore 0.000326 e 0.79.

- **Chow** ha proposto anche la stessa formula con i coefficienti *a*=0.00116 e *b*=0.64, studiando venti piccoli bacini americani di superficie variabile tra 0.0051 e 18.5 Km^2.
- la formula del **NCRS – Lag method** propone, per bacini con superficie compresa tra 0.004 e 8.1 km^2:

$$t_c = \frac{l^{0.8}(S+1)^{0.7}}{0.6 \cdot 1900 \sqrt{i_v}}$$

in cui t_c è espresso in ore, *l* è la lunghezza idraulica del bacino espressa in piedi, *S* è la ritenzione potenziale espressa in mm e i_v è la pendenza media dei versanti espressa in percentuale.

3.6.2 Modelli matematici

La modellistica idrologica si prefigge di creare modelli matematici di tipo afflussi-deflussi capaci di riprodurre l'andamento della portata in una o più sezioni del reticolo idrografico di un bacino in funzione della distribuzione sia spaziale che temporale delle piogge. In letteratura sono descritti differenti tipi di modelli idrologici, che possono essere classificati in funzione della complessità della trattazione del problema (Maione, 1977). Tra questi, i più appropriati per gli scopi del presente studio sono i cosiddetti modelli di piena di tipo concettuale, che utilizzano rappresentazioni semplificate dei processi fisici in gioco, che vengono comunque esplicitamente presi in considerazione. Inoltre, tali modelli incorporano parametri che sono fisicamente basati riducendo così l'arbitrarietà in fase di calibrazione del modello stesso. In particolare, essi rappresentano con semplicità le perdite, mentre cercano di descrivere in modo più dettagliato la trasformazione della pioggia netta in portata diretta. Quest'ultima viene assunta pari alla portata totale, poiché in eventi salienti di piena il deflusso di base è tipicamente trascurabile.

Possono essere sviluppati modelli aventi diversi gradi di complessità, da particolarmente semplici a molto dettagliati; tuttavia, per scopi di tipo ingegneristico, è consigliabile l'uso di modelli che rispondano ad alcune particolari esigenze, quali:

- la dipendenza da un numero limitato di parametri, che ne consenta il controllo in fase di calibrazione;
- la semplicità di schematizzazione dei processi fisici, che permetta un'agevole implementazione;
- la sensibilità sufficientemente limitata alla variabilità dei parametri stessi.

I **modelli semi-distribuiti** consentono di soddisfare l'esigenza di impiegare un numero limitato di parametri che ne permetta il controllo in fase di calibrazione e nello stesso tempo utilizzano l'informazione geomorfologica distribuita, la variabilità spaziale delle piogge e delle caratteristiche del suolo, che costituiscono gli aspetti fondamentali nell'analisi della risposta idrologica a scala di bacino. I modelli semi-distribuiti si possono, quindi, considerare come una valida alternativa sia ai modelli a parametri concentrati che incorporano un numero ridotto di parametri a scapito della descrizione dei processi fisici, sia ai modelli distribuiti che, pur effettuando una schematizzazione dettagliata dei fenomeni, restano vincolati a troppi parametri. La scelta è stata quindi dettata dalla necessità di utilizzare un numero limitato di parametri, da stimare attraverso pochi eventi di piena deducibili da bacini “simili” appartenenti alla stessa area geografica, e che sia in grado di fornire gli idrogrammi di piena in qualsiasi sezione del tratto fluviale investigato.

Nel presente studio, per i corsi d’acqua non analizzati negli studi idrologici idraulici a supporto del Piano Strutturale Intercomunale del Mugello e della integrazione relativa a Cafaggiolo (vedasi §1), è stato allestito un modello idrologico di tipo concettuale e semidistribuito, implementato mediante il software americano HEC-HMS ver. 4.10, che copre una superficie complessiva pari a circa 2.08 km^2:

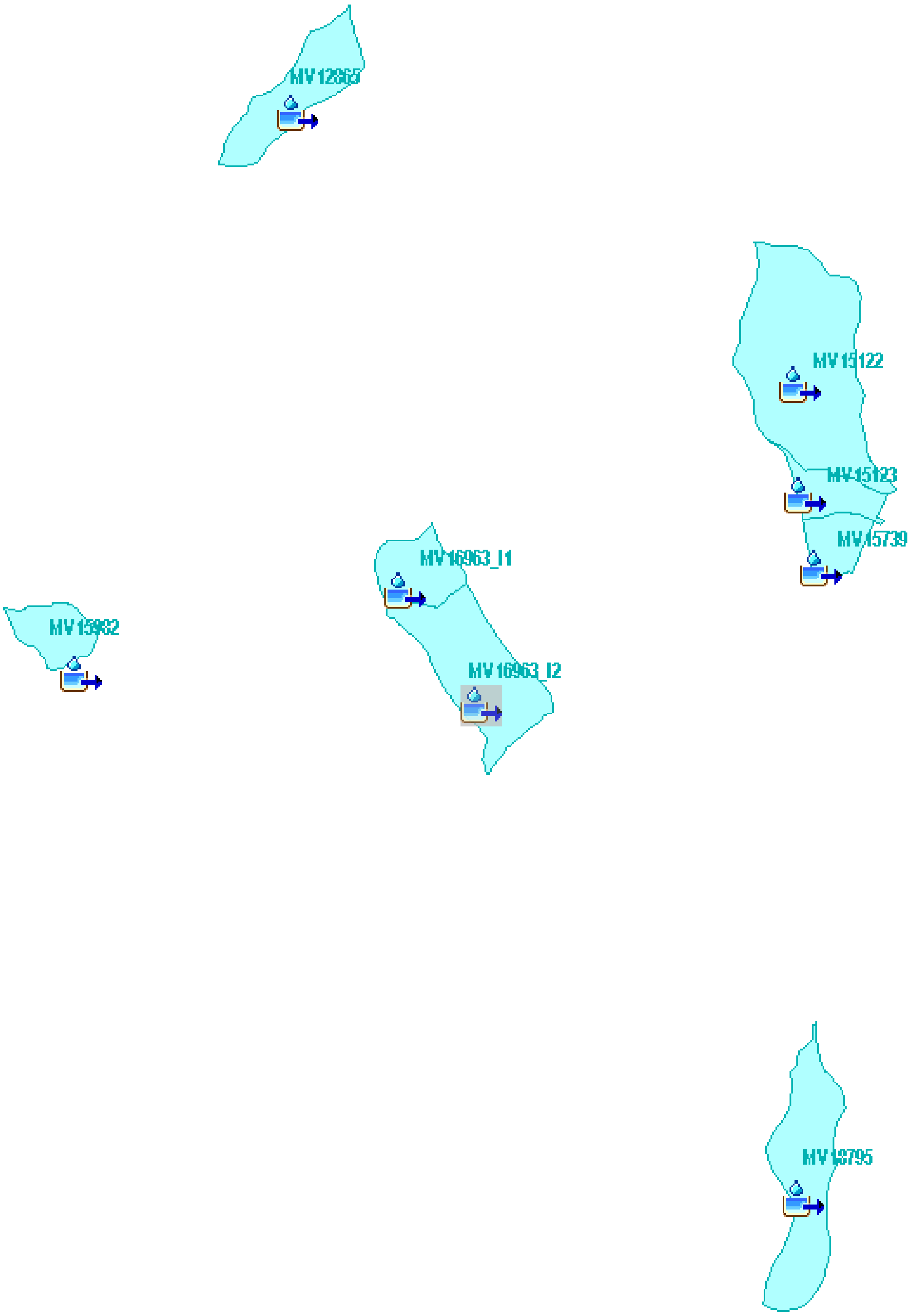


Figura 3-7: Modello idrologico semidistribuito implementato mediante il software HEC-HMS.

La Figura 3-8 illustra in maniera schematica e concettuale gli elementi del modello e le loro connessioni per il j-esimo segmento fluviale.

Il modello idrologico scelto è in sintesi un **modello di simulazione dell'evento critico** avente le seguenti caratteristiche:

- dati di pioggia da LSPP Regione Toscana (agg. dati 2012);
- durata critica assunta in prima istanza pari al tempo di corrivazione e infine determinata con procedimento iterativo in modo da massimizzare il valore della portata al colmo;
- ietogramma costante;
- stima dell'infiltrazione mediante metodo SCS-CN (adottando il CN-III);
- trasformazione afflussi deflussi basata sull'IUH del SCS per i sottobacini (con tempo di ritardo valutato a partire dal tempo di corrivazione) e sul metodo dell'onda cinematica per gli interbacini.

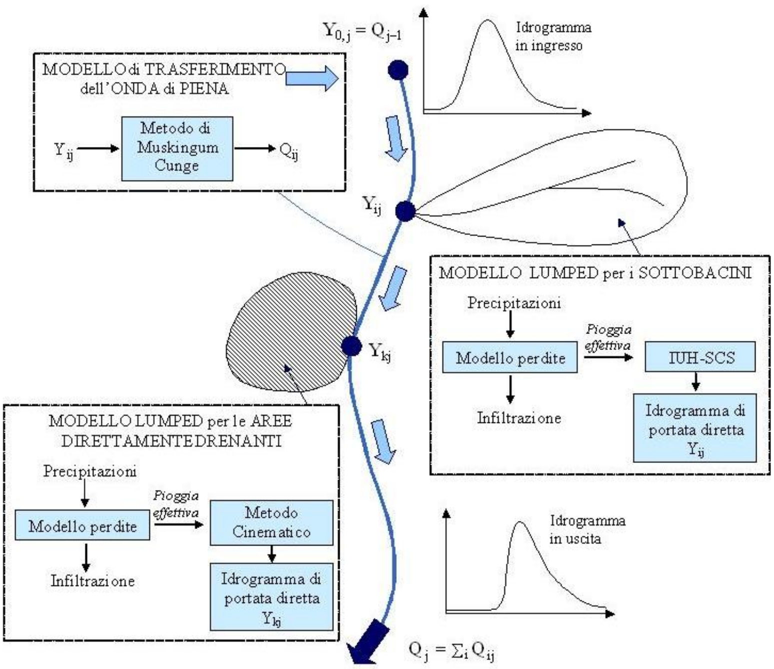


Figura 3-8: Diagramma schematico degli elementi del modello idrologico e delle loro connessioni.

Le caratteristiche morfometriche e di permeabilità dei singoli sottobacini e interbacini necessarie per le analisi idrologiche sono rappresentate in Figura 3-9, Figura 3-10 e Figura 3-11.

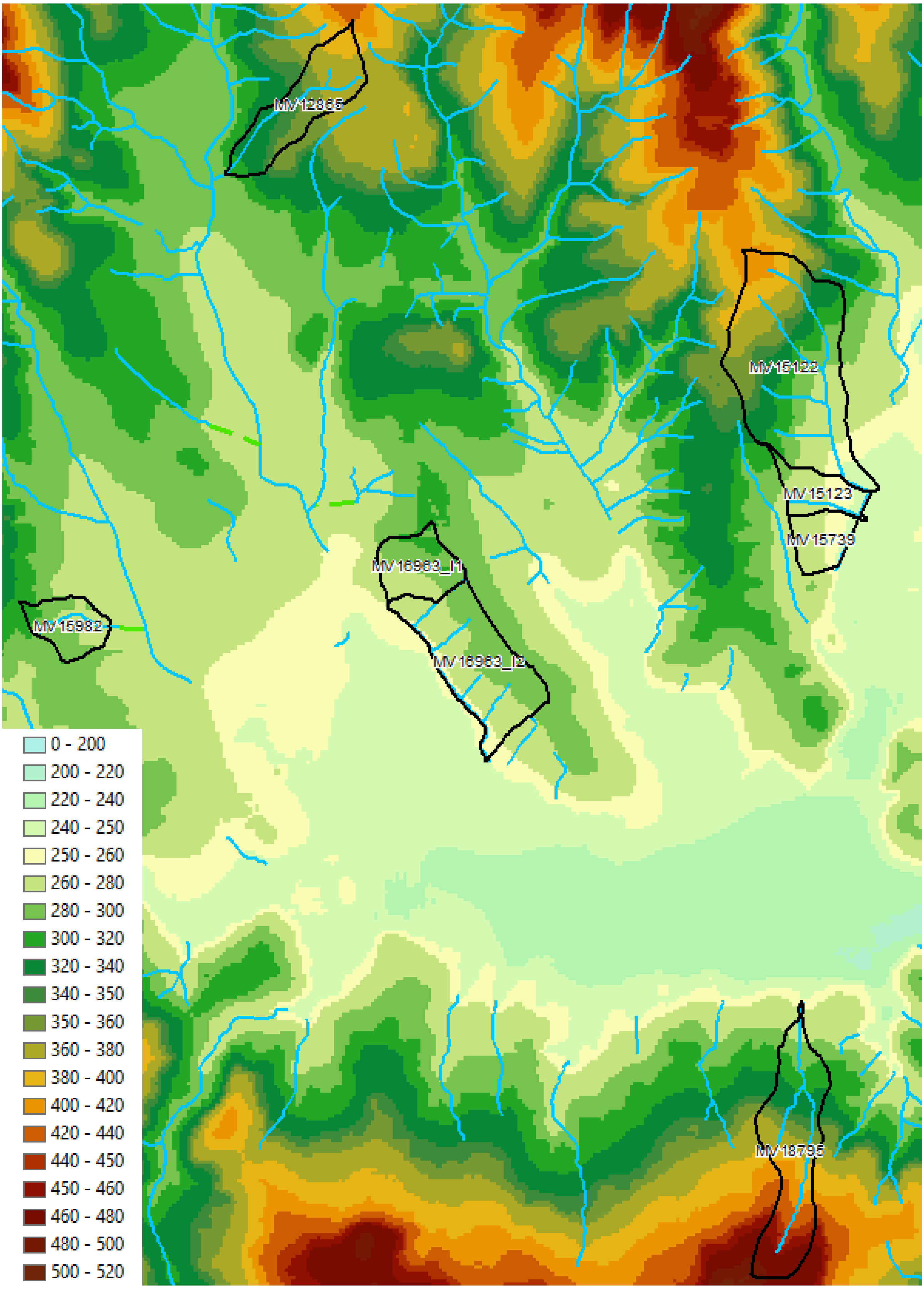


Figura 3-9: Morfologia dell'area di indagine e suddivisione in sottobacini/interbacini.

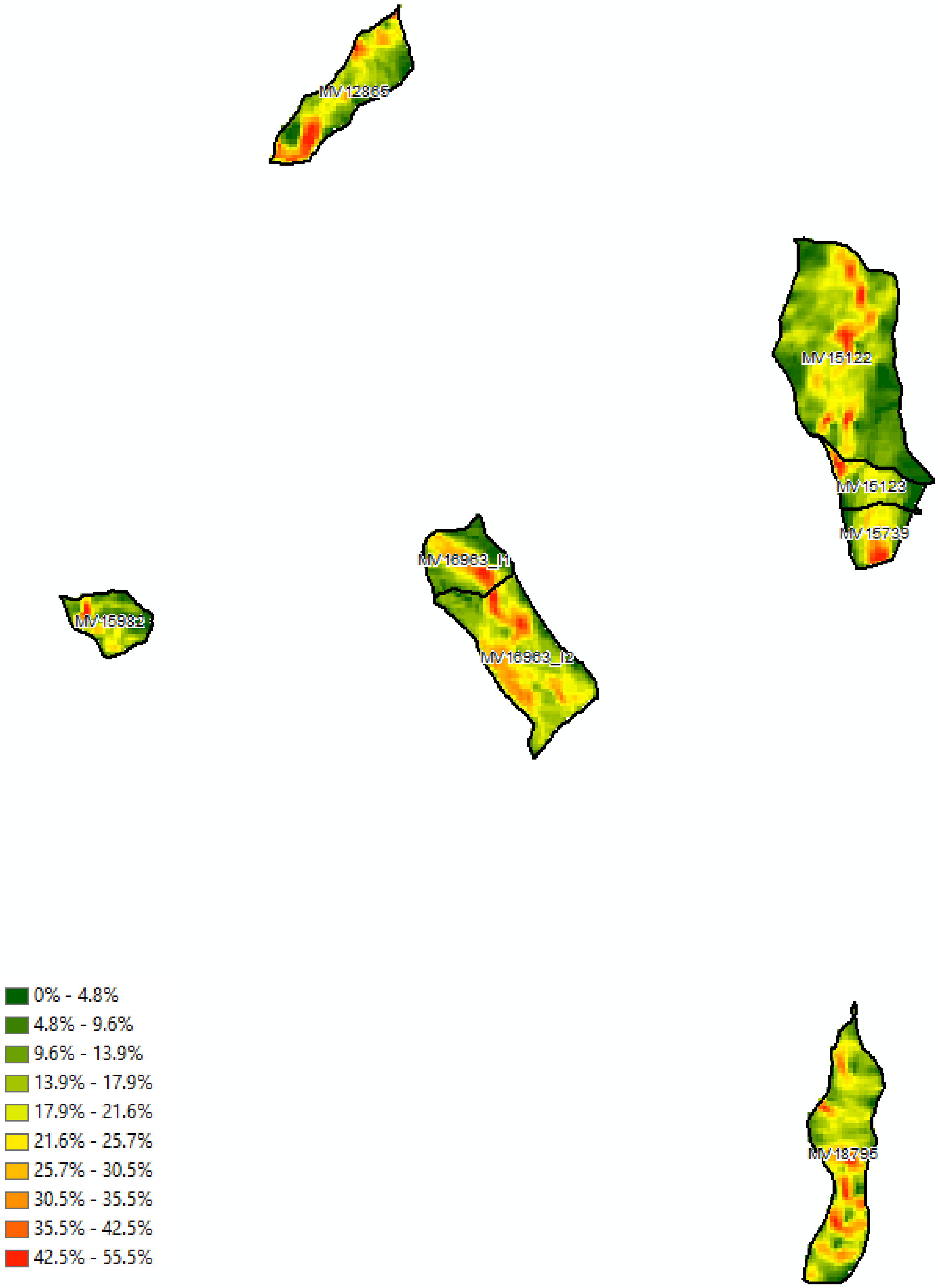


Figura 3-10: Mappa delle pendenze dell'area di indagine e suddivisione in sottobacini/interbacini.

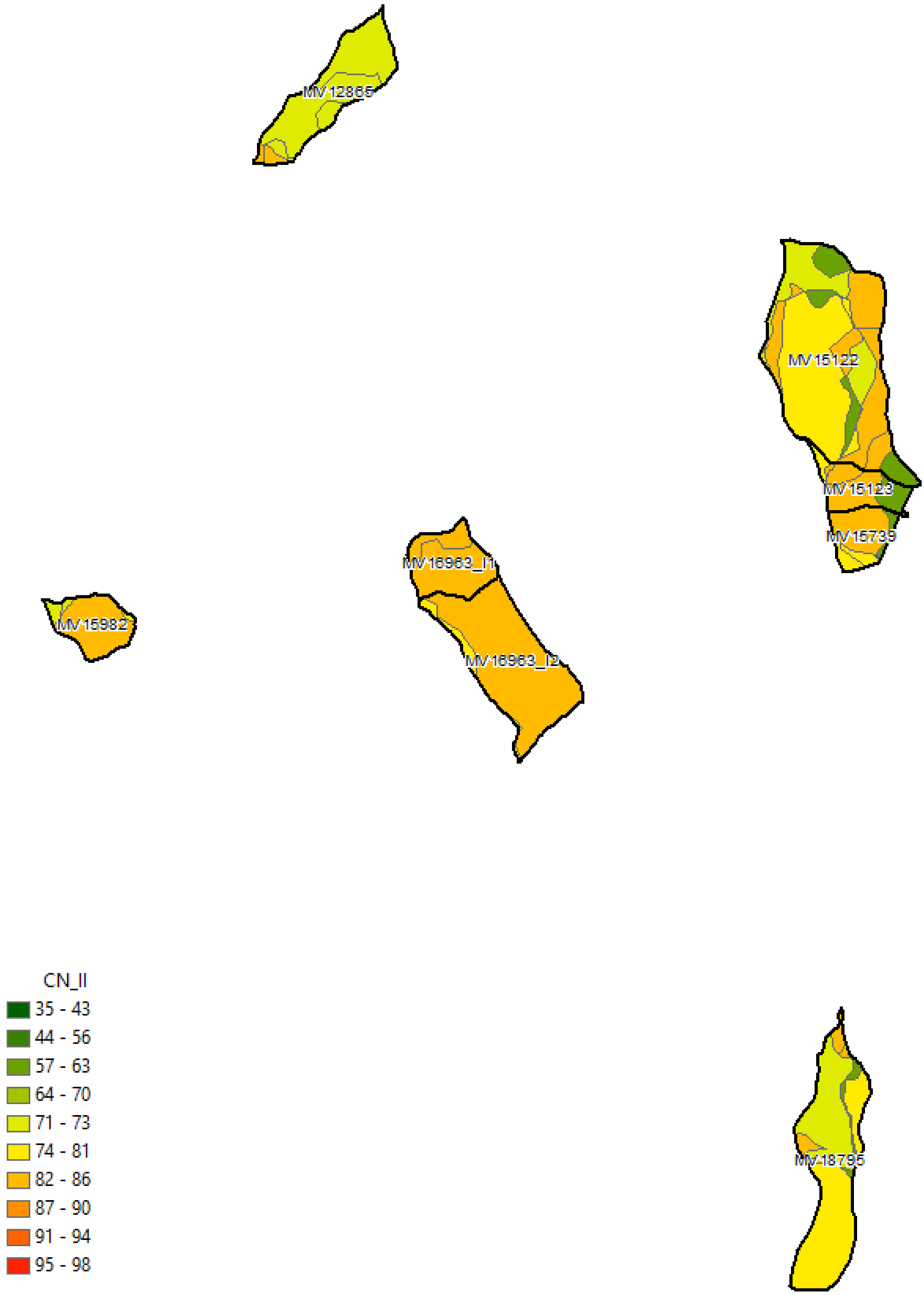


Figura 3-11: Andamento spaziale del parametro *CN-II* nell'area di interesse: la gradazione cromatica da verde a rosso indica aree rispettivamente da molto permeabili a sostanzialmente impermeabili. Le linee di colore nero indicano la suddivisione in sottobacini/interbacini.

Per ciascun sottobacino, in Tabella 3-3 sono riportati i valori dei parametri caratteristici per il calcolo del tempo di corrivazione t_c: area del bacino *S*, lunghezza dell'asta principale *L*, L_b lunghezza idraulica del bacino, h_m altezza media su sezione di chiusura del bacino, Hmax quota massima del bacino, Hmin quota minima del bacino, CN(III), i_v pendenza media dei versanti, *i* pendenza media[4] dell'asta principale, ritenzione potenziale. Tabella 3-4, per ciascun sottobacino è indicato il valore del tempo di corrivazione tc stimato con varie formulazioni disponibili in letteratura e precedentemente descritte, il valore medio e il tempo di ritardo Tr (il cosiddetto "Lag").

Tabella 3-3: parametri caratteristici per il calcolo del tempo di corrivazione

bacino	S	L	L_b	h_m	Hmax	Hmin	CN (III)	i_v	i	S	Tlag
	[Km^2]	[Km]	[Km]	[m]	[ms.l.m.]	[ms.l.m.]	[-]	[%]	[%]	[mm]	[min]
MV12865	0.24	0.88	1.19	64.47	424.00	290.00	86.4	0.113	0.072	3.61	12
MV15123	0.10	0.45	0.45	15.91	322.00	250.50	88.0	0.072	0.052	3.14	7
MV15122	0.67	1.57	1.75	73.13	406.00	250.00	88.4	0.160	0.040	3.03	20
MV15982	0.11	0.45	0.47	18.76	308.00	265.90	91.7	0.106	0.044	2.08	6
MV18795	0.36	1.60	1.79	125.00	498.00	255.00	88.1	0.179	0.112	3.10	15

Tabella 3-4: indicazione per ciascun sottobacino del tempo di corrivazione calcolato con le predette formule, di quello medio nonché del tempo di ritardo Tr

bacino	t_c *[ore]*							Tlag [min]
	Kirpich	Viparelli	*Pezzoli*	*Watt&Chow*	*Chow*	NCRS	t_{cmed}	
MV12865	0.21	0.33	0.18	0.33	0.34	0.057	0.33	12
MV15123	0.11	0.13	0.11	0.22	0.25	0.30	0.19	7
MV15122	-	0.49	0.43	0.65	0.60	0.59	0.55	20
MV15982	0.12	0.13	0.12	0.23	0.26	0.21	0.18	6
MV18795	0.24	0.50	0.26	0.44	0.44	0.58	0.41	15

Per ciascun interbacino, in Tabella 3-5 sono riportati i valori dei parametri caratteristici per l'applicazione del modello Kinematic Wave (onda cinematica): la superficie ideale rettangolare inclinata è definita dai parametri Area (A), lunghezza (L), scabrezza (R) e pendenza (i); il deflusso nel canale (channel flow) da lunghezza (*l*) e pendenza (i_c) del corso d'acqua, larghezza al fondo (*b*) e pendenza delle sponde (i_s) della sezione trasversale, scabrezza di Manning (*n*).

[4] Calcolata come media armonica delle radici delle pendenze medie dei sottotratti che la compongono, pesate per la lunghezza dei rispettivi sottotratti. (*vedi* Da Deppo, Datei, Salandin *Sistemazione dei corsi d'acqua Quarta edizione*, Libreria Internazionale Cortina, Padova, 2002, pag 178) La media armonica è l'inverso della media aritmetica degli inversi:

$$i^{0.5} = \frac{\sum_j L_j}{\sum_j L_j \cdot i_j^{-0.5}}$$

Tabella 3-5: grandezze per la caratterizzazione del modello Kinematic Wave

Interbacino	L	i	R	A	A	l	ic	shape	n	d	b	is
	[m]	[m/m]	$m^{-1/3}s$	[%]	[Kmq]	[m]	[-]	[-]	$m^{-1/3}s$	[m]	[m]	[m/m]
MV16963_I1	155	0.11	0.10	100	0.14	148.97	0.0534	trapezia	0.035	-	1.0	3.0
MV16963_I2	190	0.10	0.10	100	0.36	1199.94	0.0044	trapezia	0.035	-	1.0	3.0
Mv15739	140	0.09	0.10	100	0.10	150.53	0.0023	trapezia	0.035	-	1.5	5.0

4 Risultati dell'analisi idrologica

La procedura descritta ha permesso di ricavare, per ogni corso d'acqua analizzato, nelle sezioni di chiusura di interesse ed al variare del tempo di ritorno, le portate di progetto, con evidenziazione delle portate di picco corrispondenti alla durata critica (vedi tabelle seguenti).

Tabella 4-1: portate di picco di progetto per tempo di ritorno TR = 30 anni ricavate dall'analisi idrologica

Nome	Sezione chiusura HMS	S (kmq)	Q picco (mc/s) - TR30								
			0.5h	0.75h	1h	2h	3h	4h	5h	6h	8h
Fosso MV16963	MV16963_I1	**0.14**	2.42	1.91	1.59	1.01	0.77	0.63	0.54	0.47	0.39
Fosso MV16963	MV16963_I2	**0.36**	4.75	4.50	3.91	2.55	1.95	1.60	1.38	1.21	0.99
Fosso MV12865	MV12865	**0.24**	2.33	2.22	2.02	1.44	1.14	0.95	0.83	0.74	0.61
Fosso MV15982	MV15982	**0.11**	1.79	1.45	1.22	0.78	0.60	0.49	0.42	0.37	0.30
Fosso MV15122	MV15122	**0.67**	5.55	5.70	5.46	4.14	3.29	2.75	2.39	2.12	1.75
Fosso MV15739	MV15739	**0.10**	1.47	1.23	1.05	0.68	0.52	0.43	0.37	0.33	0.27
Fosso MV15123	MV15123	**0.10**	1.30	1.11	0.96	0.64	0.50	0.41	0.36	0.32	0.26
Fosso MV18795	MV18795	0.36	3.50	3.40	3.14	2.26	1.77	1.48	1.28	1.14	0.94

Tabella 4-2: portate di picco di progetto per tempo di ritorno TR = 200 anni ricavate dall'analisi idrologica

Nome	Sezione chiusura HMS	S (kmq)	Q picco (mc/s) – TR200								
			0.5h	0.75h	1h	2h	3h	4h	5h	6h	8h
Fosso MV16963	MV16963_I1	**0.14**	3.19	2.51	2.10	1.34	1.03	0.85	0.73	0.65	0.53
Fosso MV16963	MV16963_I2	**0.36**	6.87	6.13	5.25	3.42	2.63	2.17	1.87	1.66	1.37
Fosso MV12865	MV12865	**0.24**	3.34	3.14	2.85	2.02	1.60	1.34	1.16	1.04	0.86
Fosso MV15982	MV15982	**0.11**	2.37	1.91	1.62	1.04	0.80	0.66	0.57	0.51	0.42
Fosso MV15122	MV15122	**0.67**	7.88	8.03	7.66	5.75	4.56	3.82	3.32	2.96	2.45
Fosso MV15739	MV15739	**0.10**	2.06	1.67	1.41	0.92	0.71	0.59	0.51	0.45	0.37
Fosso MV15123	MV15123	**0.10**	1.80	1.53	1.32	0.89	0.69	0.57	0.50	0.44	0.37
Fosso MV18795	MV18795	**0.36**	4.94	4.76	4.37	3.12	2.46	2.06	1.78	1.59	1.32

5 Analisi idraulica

5.1 Il modello numerico di simulazione idraulica

Come già anticipato, il presente studio idrologico - idraulico persegue l'obiettivo di individuare allo stato attuale i potenziali fronti di esondazione che potrebbero interessare le previsioni urbanistiche.

Le modalità di allagamento delle aree golenali di un corso d'acqua possono risultare molto differenti da caso a caso. Un allagamento può, infatti, verificarsi per libera espansione nelle golene non protette da difese spondali o per tracimazione degli argini o dei muri di sponda. Il volume esondato può, a sua volta, accumularsi in una determinata area oppure può trasferirsi più a valle, allagando, magari, un territorio non interessato da un fronte di esondazione diretto.

Per descrivere compiutamente il fenomeno di propagazione delle onde di piena sono stati allestiti dei modelli matematici accoppiati 1D per gli alvei incisi e puramente 2D per le aree golenali extra-alveo implementati mediante il software Hec-Ras[5] (rel. 6.4.1).

Il collegamento tra alveo inciso e aree golenali è stato realizzato attraverso "*lateral structure*" assumendo un valore del "*weir coefficient*" dipendente dall'altezza della sponda rispetto al piano campagna, così come suggerito dal manuale utente di Hec Ras da cui è estratta l'immagine seguente.

What is being modeled with the Lateral Structure	Description	Range of Weir Coefficients
Levee/Roadway – 3ft or higher above natural ground	Broad crested weir shape, flow over levee/road acts like weir flow	**1.5** to **2.6** (2.0 default) SI Units: 0.83 to 1.43
Levee/Roadway – 1 to 3 ft elevated above ground	Broad crested weir shape, flow over levee/road acts like weir flow, but becomes submerged easily.	**1.0** to **2.0** SI Units: 0.55 to 1.1
Natural high ground barrier – 1 to 3 ft high	Does not really act like a weir, but water must flow over high ground to get into 2D flow area.	**0.5** to **1.0** SI Units: 0.28 to 0.55
Non elevated overbank terrain. Lat Structure not elevated above ground	Overland flow escaping the main river.	**0.2** to **0.5** SI Units: 0.11 to 0.28

Figura 5-1: lateral weir coefficients

[5] Hydrologic Engineering Center – River Analysis System – US Army Corps of Engineers, Davis CA.

5.2 Principi teorici della modellazione numerica

Rimandando all'indirizzo internet http://www.hec.usace.army.mil per l'esaustiva trattazione dei principi teorici sui quali si basa la soluzione numerica delle equazioni di moto e di continuità che regolano il processo di moto (in particolare alle pubblicazioni "*Hydraulic Reference Manual*", "*User's Manual*" e "*Two-Dimensional Modeling User's Manual*"), si riportano di seguito alcuni brevi cenni di come viene effettuata la modellazione numerica 2D dal software Hec-Ras v.5.

Il programma risolve sia le equazioni 2D di diffusione dell'onda o quelle complete di Saint Venant. Questa opzione è selezionabile dall'utente in base al tipo di problema da analizzare: le equazioni 2D in forma completa (Full Momentum) sono tuttavia applicabili alla più ampia gamma di applicazioni e sono state adottate nel presente studio.

Il risolutore delle equazioni di moto bidimensionale utilizza un algoritmo implicito ai volumi finiti. Tale algoritmo di soluzione, oltre a consentire passi temporali di calcolo maggiori rispetto ai metodi espliciti, presenta miglioramenti in termini di stabilità e robustezza rispetto alle tradizionali tecniche differenziali di soluzione basate su metodi a elementi finiti.

Il software è stato progettato per utilizzare mesh computazionali strutturate o non strutturate. Ciò significa che le celle computazionali possono essere variabili e presentare forme triangolari, quadrate, rettangolari, pentagonali, esagonali, ettagonali oppure ottagonali.

Ogni cella e ogni faccia della cella, per tutta la maglia di calcolo, è pre-processata al fine di calcolare le tabelle di proprietà idrauliche basate sul DTM di base, che mantiene la propria risoluzione spaziale generalmente, come in questo caso, superiore a quella della mesh (Figura 5-2).

Nella Figura 5-2 è illustrato uno schema della maglia di calcolo sovrapposta ad un DTM avente maggior risoluzione spaziale della mesh. Le celle computazionali sono rappresentate dalle linee nere spesse. Il centro delle celle di calcolo è rappresentato dai nodi neri e sono i punti in cui vengono calcolati per ogni cella il livello idrico e la portata. La curva altezza/volume viene calcolata nella fase di pre-processing per ogni cella sulla base del DTM sottostante. Ogni faccia della cella è una sezione trasversale dettagliata basata anch'essa sul terreno sottostante. Questo metodo di rappresentazione delle celle permette all'acqua di spostarsi tra celle contigue in base ai dati morfologici sottostanti. Pertanto, un piccolo canale che attraversa le celle e le cui dimensioni sono molto più piccole della dimensione della mesh viene comunque rappresentato tramite le curve altezza/volume oltreché dalle proprietà idrauliche delle facce. Ciò significa che l'acqua scorre tra le celle più grandi ma comunque il deflusso si concentra inizialmente nelle zone più depresse.

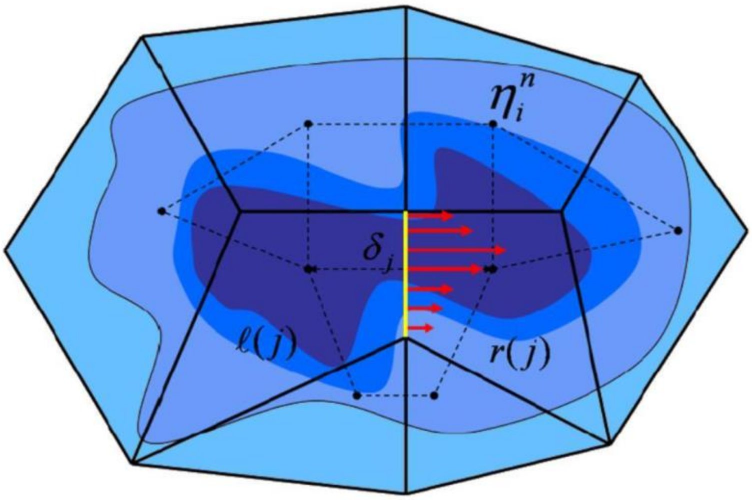


Figura 5-2: schema concettuale dell'algoritmo a volumi finiti adottato dal software Hec-Ras v.5.

Nell'ambiente RAS Mapper, il software Hec-Ras consente di effettuare la perimetrazione delle aree allagabili, la mappatura delle varie grandezze idrauliche (tra cui velocità, sforzi tangenziali, ecc…) l'animazione della propagazione della piena nel tempo. La mappatura delle aree allagate si basa sul DTM e ne mantiene la risoluzione: ciò significa che la reale superficie bagnata sarà basata sui dettagli morfologici del terreno sottostante e non sulla dimensione della cella di calcolo. Le celle quindi possono anche essere parzialmente bagnate/asciutte.

5.2.1 Assegnazione dei parametri di scabrezza

Per quanto riguarda le scabrezze medie attribuibili ai singoli corsi d'acqua analizzati si rimanda ai successivi paragrafi relativi a ciascun modello numerico implementato, con riferimento ai valori medi del coefficiente *n* di Manning rappresentativi della regolarità dei corsi d'acqua e della presenza di vegetazione, coerentemente ai normali valori proposti in letteratura[6]:

- 0.025 $m^{-1/3}s$ corrisponde a*: "terra con erba sul fondo. Corsi d'acqua naturali regolari"*.
- 0.030 $m^{-1/3}s$ corrisponde a*: "terra in cattive condizioni. Corsi d'acqua naturali con ciottoli e ghiaia"*.
- 0.035 $m^{-1/3}s$ corrisponde a: *"Canali in abbandono con grande vegetazione*

[6] Manuale di Ingegneria Civile - Volume I .Ed.Zanichellli/Esac.

Analogamente, per quanto riguarda le scabrezze extra-alveo da utilizzare per la modellazione idraulica bidimensionale del cosiddetto "overland flow", facendo riferimento alla tabella seguente tratta dalla letteratura di settore, si è assunto un valore di scabrezza pari a 0.1 $m^{-1/3}s$.

Tabella 5-1: valori di scabrezza al variare del tipo di copertura per "overland flow"

Table 1. Overland Flow Manning's n Roughness Values[1]

Surface	n-value
Dense turf	0.17 - 0.80
Bermuda and dense grass, dense vegetation	0.17 - 0.48
Shrubs and forest litter, pasture	0.30 - 0.40
Average grass cover	0.20 - 0.40
Poor grass cover on rough surface	0.20 - 0.30
Short prairie grass	0.10 - 0.20
Sparse vegetation	0.05 - 0.13
Sparse rangeland with debris	
0% cover	0.09 - 0.34
20 % cover	0.05 - 0.25
Plowed or tilled fields	
Fallow - no residue	0.008 - 0.012
Conventional tillage	0.06 - 0.22
Chisel plow	0.06 - 0.16
Fall disking	0.30 - 0.50
No till - no residue	0.04 - 0.10
No till (20 - 40% residue cover)	0.07 - 0.17
No till (60 - 100% residue cover)	0.17 - 0.47
Open ground with debris	0.10 - 0.20
Shallow glow on asphalt or concrete (0.25" to 1.0")	0.10 - 0.15
Fallow fields	0.08 - 0.12
Open ground, no debris	0.04 - 0.10
Asphalt or concrete	0.02 - 0.05

[1] Adapted from COE, HEC-1 Manual, 1990 and the COE, Technical Engineering and Design Guide, No. 19, 1997 with modifications.

5.2.2 Condizioni al contorno

Per svolgere la simulazione e calcolare il livello del pelo libero in una data sezione, è necessario conoscere la medesima grandezza in una sezione prossima a questa, a monte o a valle a seconda del regime di corrente.

Il programma provvede automaticamente al riconoscimento per tratti del regime di corrente che si può effettivamente instaurare per la portata assegnata e, se in un tratto la corrente ad esempio è veloce, esso adotterà quale altezza di riferimento quella fornita in input per l’estremo di monte; viceversa, se la corrente del tratto è lenta, quale altezza di controllo sarà adottata quella fornita in input per la sezione terminale di valle. Nei tratti intermedi il programma adotta analoghi criteri ed è in grado di processare situazioni in cui i due regimi si susseguono in qualsiasi ordine.

Per effettuare la simulazione è quindi necessario imporre delle condizioni al contorno a monte e a valle dei tratti in esame. Com'è noto questa condizione può essere imposta in vari modi: livello idrico noto, altezza critica, altezza di moto uniforme, scala di deflusso.

A questo proposito va tuttavia osservato che il metodo d'integrazione numerica adottato dal software ("Standard step method") è intrinsecamente autoregolante, ovvero, dopo pochi step spaziali (sezioni), l'altezza della corrente risulta invariante rispetto alla condizione al contorno adottata. Per questo motivo, eventuali imprecisioni nella valutazione delle altezze di controllo diventano inessenziali se si dispone di un numero di sezioni in eccesso rispetto a quelle strettamente occorrenti per l'estensione del tratto da indagare.

Trattandosi di analisi in regime di moto vario, quali condizioni al contorno di monte sono stati assunti gli idrogrammi di piena; per la condizione di valle, invece, rimandando ai successivi paragrafi relativi a ciascun modello numerico implementato per ulteriori dettagli, si è generalmente optato per l'altezza di moto uniforme.

6 Risultati della modellazione idraulica

Le simulazioni numeriche delle correnti di piena condotte per eventi meteorici duecentennali e trentennali, implementati con il programma Hec-Ras, hanno consentito di individuare, per i corsi d'acqua oggetto di studio, i tratti dove si verificano le esondazioni, gli idrogrammi corrispondenti ai volumi esondati da ciascun fronte di esondazione e la relativa propagazione extra-alveo di detti volumi idrici.

Nelle tavole grafiche allegate sono indicate le relative aree a pericolosità per alluvioni frequenti e poco frequenti da cui si evincono le criticità idrauliche presenti nel territorio.

Per ulteriori dettagli si rimanda alle Appendici 1 e 2 contenenti gli outputs delle simulazioni numeriche 1D+2D effettuate in regime di moto vario.

I modelli implementati nel presente studio sono descritti in dettaglio nei successivi paragrafi.

6.1 Barberino di Mugello

6.1.1 Modello “Sieve – Mulinaccia – Scopicci - Visano”

6.1.1.1 Tratti dei corsi d’acqua modellati

- **Fiume Sieve**: dalla sez. 21, posta circa 35 m a monte dell’Autostrada del Sole A1 nell’intorno del km 261, alla sez. 1 posta circa 293 m a valle della S.P.8 in località Cavallina (Barberino di Mugello), per una lunghezza complessiva di circa 1.78 km ed un numero di sezioni pari a 74. Le sezioni comprendono 13 strutture di attraversamento.
- **Fosso Scopicci**: dalla sez. 20, posta poco a valle dell’Autostrada del Sole A1 nell’intorno del km 261.9, alla sez. 1.1 posta circa 14 m a monte della confluenza con il Fosso della Mulinaccia, per una lunghezza complessiva di circa 0.97 km ed un numero di sezioni pari a 40. Le sezioni comprendono 3 strutture di attraversamento.
- **Fosso della Mulinaccia**: dalla sez. 19, posta 300 m a valle dell’Autostrada del Sole A1 nell’intorno del km 262.5, alla sez. 0.4 posta 40 m a monte della confluenza con il Fiume Sieve, per una lunghezza complessiva di circa 0.99 km ed un numero di sezioni pari a 59. Le sezioni comprendono 10 strutture di attraversamento.
- **Fosso di Visano**: dalla sez. 29, posta circa 44 m a valle dell’Autostrada del Sole A1 nell’intorno del km 260.6, alla sez. 0.9 posta circa 18 m a monte della

confluenza con il Fiume Sieve, per una lunghezza complessiva di circa 1.57 km ed un numero di sezioni pari a 51. Le sezioni comprendono 10 strutture di attraversamento.

6.1.1.2 Scabrezze

- **Fiume Sieve**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$.
- **Fosso Scopicci**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$.
- **Fosso della Mulinaccia**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$.
- **Fosso di Visano**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$.

6.1.1.3 Durate critiche e durate simulate

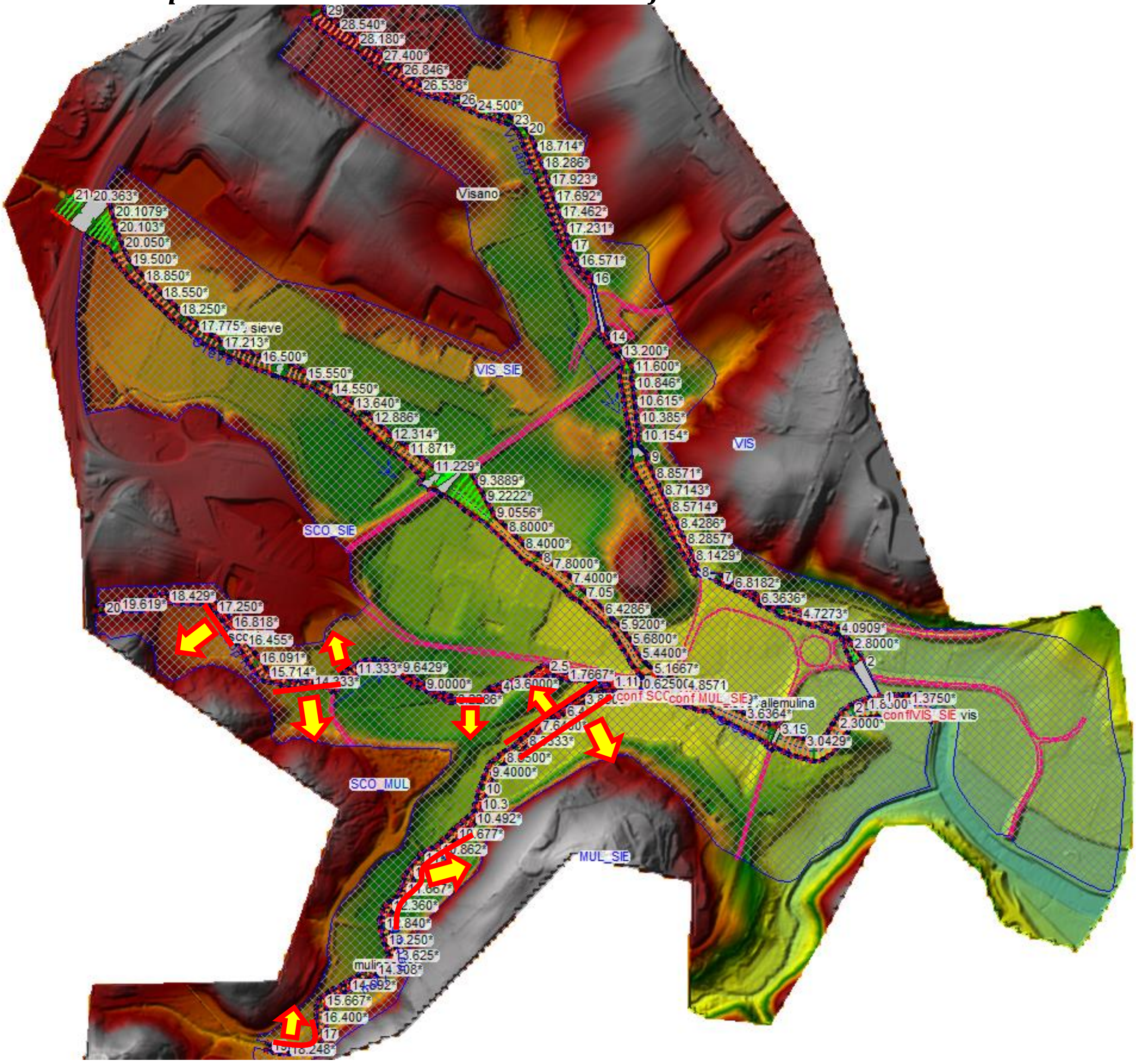
Le analisi sono state effettuate considerando che i corsi d’acqua presenti nel modello siano simultaneamente interessati da eventi meteorici aventi lo stesso tempo di ritorno e la stessa durata di pioggia, in quanto costituiscono un sistema interconnesso.

Pertanto, sono stati esaminati i seguenti scenari meteorici:

- evento meteorico 200ennale di durata critica pari a 1, 2 ore;

- evento meteorico 30ennale di durata critica pari a 1, 2 ore.

6.1.1.4 Schema planimetrico con individuazione dei fronti di esondazione diretta

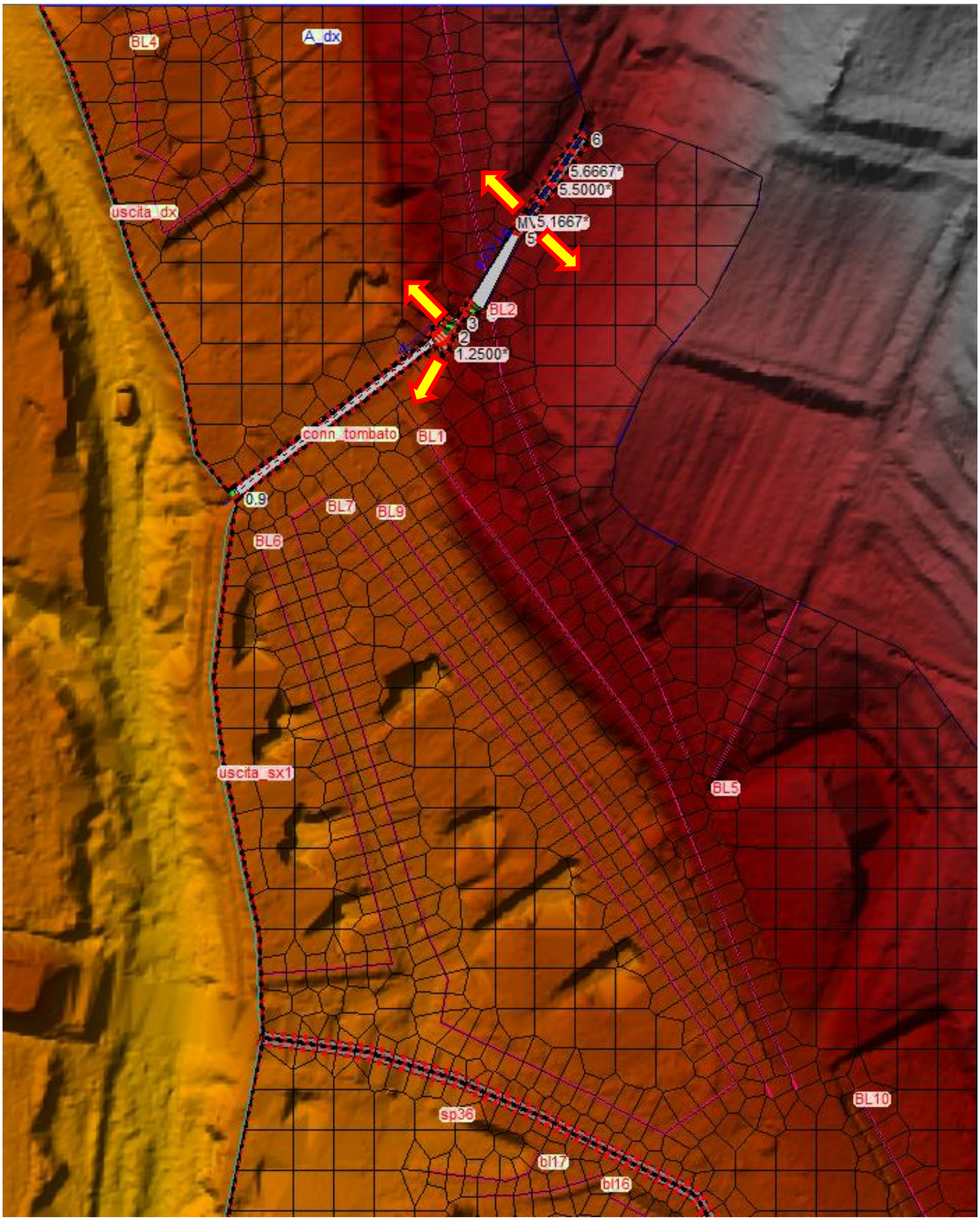


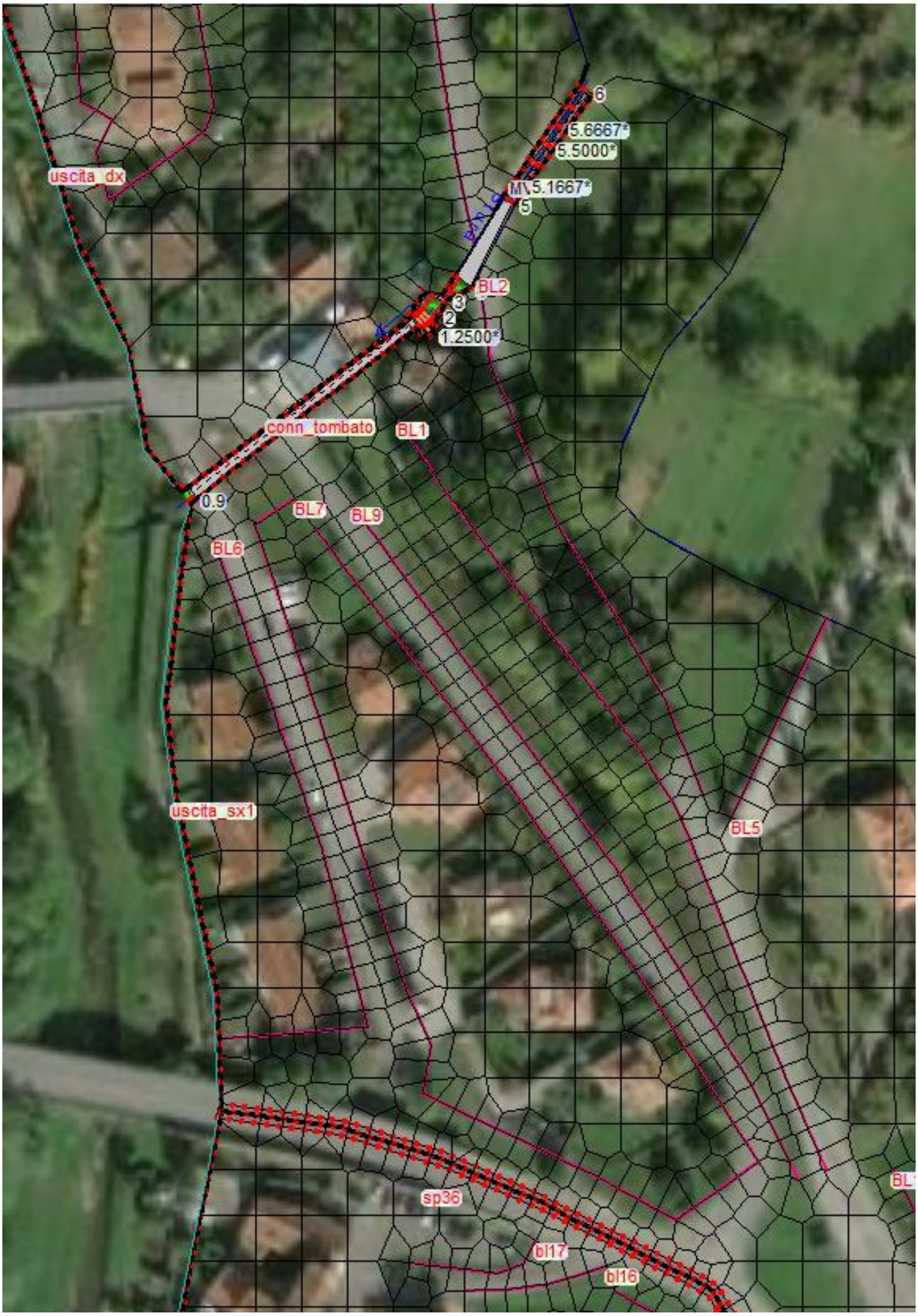
6.1.2 Modello “MV12865_Stura”

6.1.2.1 Tratti dei corsi d’acqua modellati

Fosso MV12865: dalla sez. 6, posta circa 30 m a monte dell’attraversamento della SP8 in località Casino, alla sezione 0.9 posta in corrispondenza della confluenza con il T. Stura per una lunghezza complessiva di circa 0.13 km ed un numero di sezioni pari a 9. Le sezioni comprendono 2 strutture di attraversamento e una briglia.

6.1.2.2 Schema planimetrico con individuazione dei fronti di esondazione diretta





6.1.2.3 Scabrezze

Per il fosso MV12865 sono stati assunti coefficienti di scabrezza di Manning *n* 0.03 $m^{-1/3}s$ in alveo ed extra alveo.

6.1.2.4 Durate critiche e durate simulate

Le analisi idrauliche sono state condotte esaminando i seguenti scenari meteorici:

- evento meteorico 200ennale di durata critica pari a 30 minuti, 1 ora e 2 ore;

- evento meteorico 30ennale di durata critica pari a 30 minuti, 1 ora e 2 ore.

6.1.3 Modello "MV15982_Lora"

6.1.3.1 Tratti dei corsi d'acqua modellati

Fosso MV15982: dalla sez. 4, posta circa 105 m a monte dell'attraversamento dell'area industriale di Via Pian della Fonda, alla sezione 0.9 posta in corrispondenza della confluenza con il T. Lora per una lunghezza complessiva di circa 0.29 km ed un numero di sezioni pari a 12. Le sezioni comprendono 2 strutture di attraversamento e due salti di fondo.

6.1.3.2 Scabrezze

Per il fosso MV12865 sono stati assunti coefficienti di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$.

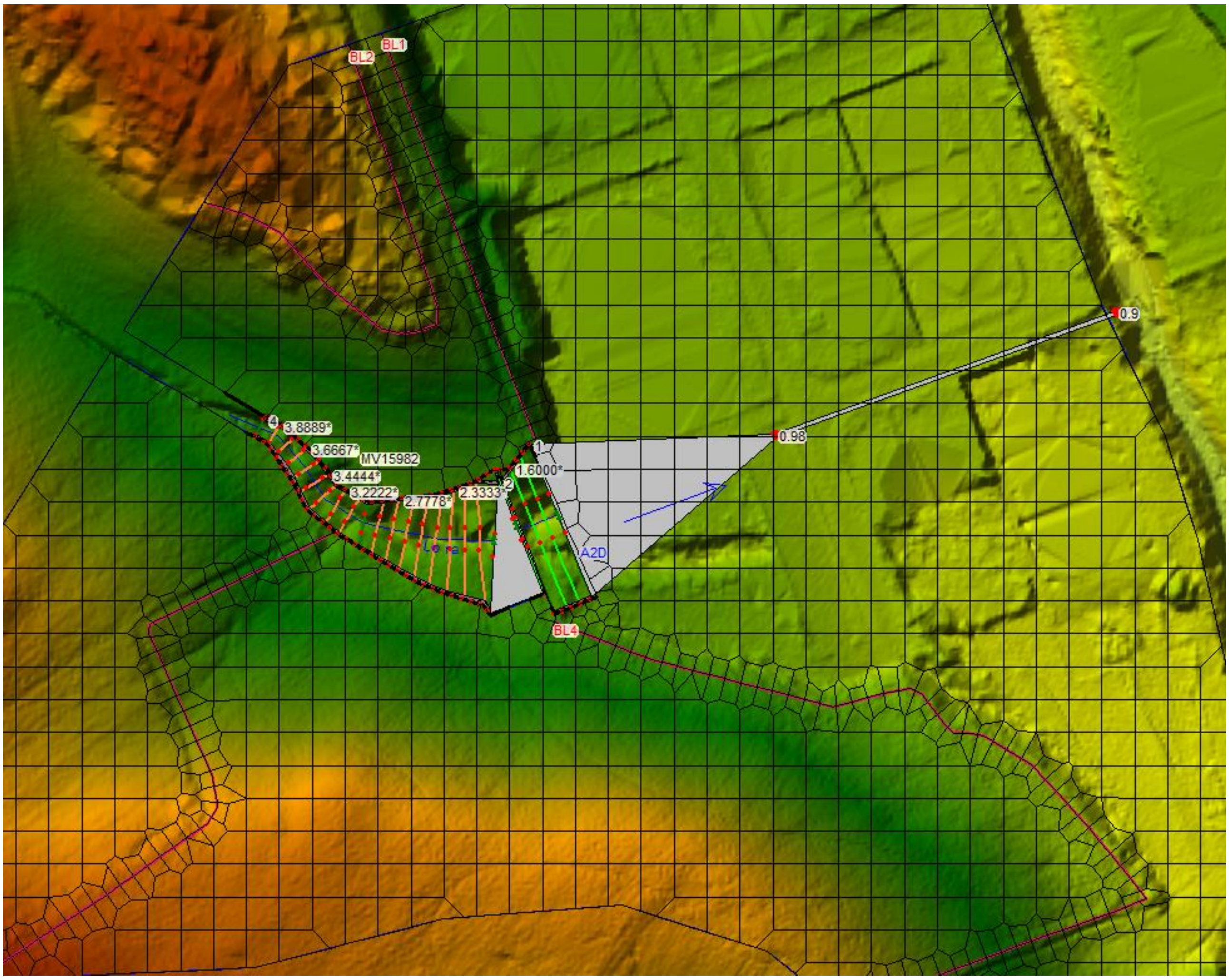
6.1.3.3 Durate critiche e durate simulate

Le analisi idrauliche sono state condotte esaminando i seguenti scenari meteorici:

- evento meteorico 200ennale di durata critica pari a 30 minuti, 1 ora e 2 ore;

- evento meteorico 30ennale di durata critica pari a 30 minuti, 1 ora e 2 ore.

6.1.3.4 Schema planimetrico con individuazione dei fronti di esondazione diretta



6.1.4 Modello "Bellavista"

6.1.4.1 Tratti dei corsi d'acqua modellati

- **Fosso MV16963**: dalla sez. 100, posta poco a monte della S.P.131, alla sezione 80.9 posta allo sbocco nel Lago di Bilancino per una lunghezza complessiva di circa 1.1 km ed un numero di sezioni pari a 22. Le sezioni comprendono 4 strutture di attraversamento.
- **Fosso Ornellaio**: dalla sez. 5.1, posta poco a monte della S.P.131, alla sezione 80.9 posta allo sbocco nel Lago di Bilancino per una lunghezza complessiva di circa 0.20 km ed un numero di sezioni pari a 14. Le sezioni comprendono 3 strutture di attraversamento.

6.1.4.2 Scabrezze

- **Fosso MV16963**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$.

- **Fosso Ornellaio**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$.

6.1.4.3 Durate critiche e durate simulate

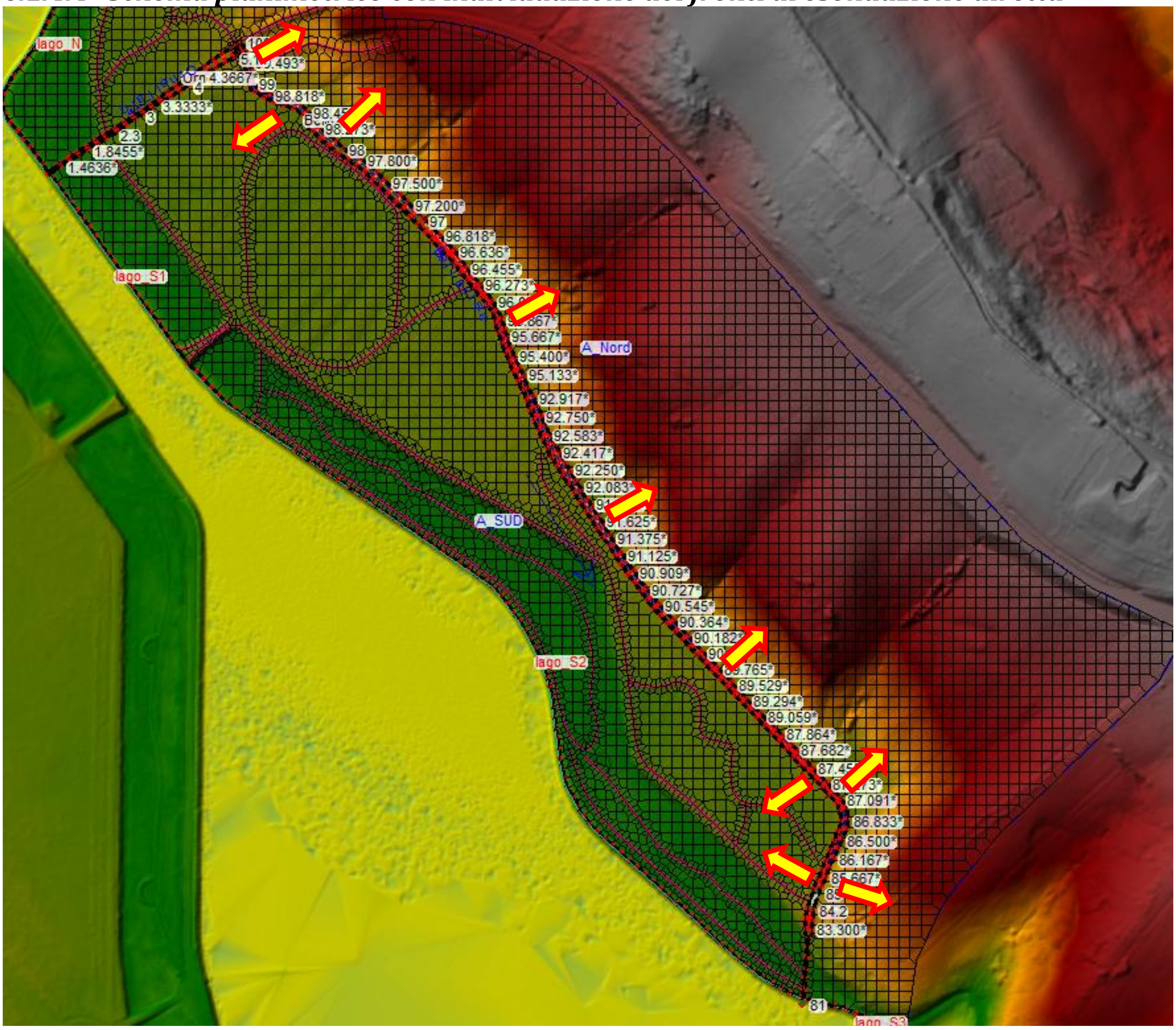
Le analisi sono state effettuate considerando che entrambi i corsi d'acqua siano simultaneamente interessati da eventi meteorici aventi lo stesso tempo di ritorno e la stessa durata di pioggia, in quanto costituiscono un sistema interconnesso.

Pertanto, sono stati esaminati i seguenti scenari meteorici:

- evento meteorico 200ennale di durata critica pari a 30 minuti, 45 minuti, 1 ora, 2 ore e 3 ore;

- evento meteorico 30ennale di durata critica pari a 30 minuti, 45 minuti, 1 ora, 2 ore e 3 ore.

6.1.4.4 Schema planimetrico con individuazione dei fronti di esondazione diretta



6.1.5 Modello “Gabbianello”

6.1.5.1 Tratti dei corsi d’acqua modellati

- **Fosso MV15122**: dalla sez. 15, posta in località Galliano, alla sezione 0.9 posta allo sbocco nel Lago di Bilancino per una lunghezza complessiva di circa 0.42 km ed un numero di sezioni pari a 21. Le sezioni comprendono 4 strutture di attraversamento.
- **Fosso MV15739**: dalla sez. 11, posta in località Galliano, alla sezione 0.9 posta allo sbocco nel Lago di Bilancino per una lunghezza complessiva di circa 0.47 km ed un numero di sezioni pari a 18. Le sezioni comprendono 3 strutture di attraversamento.
- **Fosso MV15123**: dalla sez. 9, posta in località Galliano, alla sezione 3.72 posta alla confluenza con il fosso MV15739, per una lunghezza complessiva di circa 0.11 km ed un numero di sezioni pari a 10. Le sezioni comprendono 2 strutture di attraversamento.
- **Fosso MV15123_bis**: dalla sez. 3, posta in località Galliano, alla sezione 0.9 posta allo sbocco nel Lago di Bilancino per una lunghezza complessiva di circa 0.06 km ed un numero di sezioni pari a 7. Le sezioni comprendono 2 strutture di attraversamento.

6.1.5.2 Scabrezze

- **Fosso MV15122**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$;
- **Fosso MV15739**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$;
- **Fossi MV15123 e MV15123_bis**: coefficiente di scabrezza di Manning *n* in alveo pari a 0.035 $m^{-1/3}s$ ed extra alveo pari a 0.04 $m^{-1/3}s$.

6.1.5.3 Durate critiche e durate simulate

Le analisi sono state effettuate considerando che entrambi i corsi d’acqua siano simultaneamente interessati da eventi meteorici aventi lo stesso tempo di ritorno e la stessa durata di pioggia, in quanto costituiscono un sistema interconnesso.

Pertanto, sono stati esaminati i seguenti scenari meteorici:

- evento meteorico 200ennale di durata critica pari a 30 minuti, 45 minuti, 1 ora e 2 ore;

- evento meteorico 30ennale di durata critica pari a 30 minuti, 45 minuti, 1 ora e 2 ore.

6.1.5.4 Schema planimetrico con individuazione dei fronti di esondazione diretta

7 Perimetrazione delle aree a pericolosità da alluvioni e a diversa "magnitudo"

L'inviluppo dei risultati ottenuti per ciascun tempo di ritorno (in particolare in termini di livelli idrometrici massimi raggiunti in alveo e nelle aree di esondazione) ha costituito la base numerica per il tracciamento delle aree allagabili, con riferimento al DTM Lidar.

In ambiente Ras Mapper, il software ha fornito direttamente l'inviluppo delle aree allagabili per ogni scenario analizzato, cioè relativamente ad un tempo di ritorno e a una durata di precipitazione. Successivamente, gli scriventi hanno creato, in ambiente GIS, per ciascun tempo di ritorno inverstigato, l'inviluppo delle aree allagabili relative a più durate di precipitazione.

Pertanto, il territorio comunale investigato è stato classificato, in funzione del tempo di ritorno, secondo le seguenti fasce:

- Aree inondabili da eventi con tempo di ritorno TR = 30 anni (aree a pericolosità per **alluvioni frequenti**);
- Aree inondabili da eventi con tempo di ritorno TR = 200 anni (aree a pericolosità per **alluvioni poco frequenti**);

Inoltre, per l'area di studio, è stata determinata la "*magnitudo idraulica*", definita dalla L.R. 41/2018 per lo scenario per **alluvioni poco frequenti** attraverso la combinazione del battente e della velocità della corrente, così come di seguito indicato:

- "*magnitudo idraulica moderata*": valori di battente inferiore o uguale a 0,5 metri e velocità inferiore o uguale a 1 m/s. Nei casi in cui la velocità non sia determinata, battente uguale o inferiori a 0,3 m;
- "*magnitudo idraulica severa*": valori di battente inferiore o uguale a 0,5 metri e velocità superiore a 1 m/s oppure battente superiore a 0,5 m e inferiore o uguale a 1 m e velocità inferiore o uguale a 1 m/s. Nei casi in cui la velocità non sia determinata, battente superiore a 0,3 m e inferiore o uguale a 0,5 m;
- "*magnitudo idraulica molto severa*": battente superiore a 0,5 m e inferiore o uguale a 1 m e velocità superiore a 1 m/s oppure battente superiore a 1 m. Nei casi in cui la velocità non sia determinata, battenti superiori a 0,5 metri.

8 Elaborati cartografici

Ai sensi delle Direttive tecniche per lo svolgimento delle indagini geologiche, idrauliche e sismiche (Allegato A - D.P.G.R Toscana del 30/01/2020, n.5/R) il presente studio è stato corredato anche dai seguenti elaborati cartografici:

- Carta della pericolosità da alluvioni;
- Carta della magnitudo idraulica;
- Carta dei battenti;
- Carta delle velocità della corrente;
- Carta delle aree presidiate da sistemi arginali, comprensiva delle aree di fondovalle fluviale;
- Carta delle aree presidiate da sistemi arginali, comprensiva delle aree di fondovalle fluviale;
- Aree ed elementi esposti a fenomeni alluvionali.

Come già descritto al § 7, a cui si rinvia per maggiori dettagli, l'inviluppo dei risultati ottenuti per ciascun tempo di ritorno (in particolare in termini di livelli idrometrici massimi, battenti e velocità raggiunti in alveo e nelle aree di esondazione) ha costituito la base numerica per il tracciamento della Carte di pericolosità da alluvioni, della Carta della magnitudo idraulica, della Carta dei battenti e della Carta della velocità della corrente.

È pero opportuno precisare, come anticipato al §1, che per la redazione dei predetti elaborati cartografici, oltre alle analisi numeriche descritte nella presente relazione, si è fatto riferimento anche agli studi idrologici idraulici redatti a supporto:

- del Piano strutturale Intercomunale del Mugello;
- dell'Integrazione del Piano Strutturale Intercomunale del Mugello ai fini dell'adozione del secondo stralcio - parco Cafaggiolo;
- P.G.R.A dell'Autorità di Bacino Distrettuale dell'Appennino Settentrionale.

Si evidenzia infine che nelle aree a pericolosità per alluvioni poco frequenti desunte dal P.G.R.A. per le quali cui non erano determinati né il battente né la velocità della corrente, nella Carta della magnitudo idraulica la stessa è stata assunta cautelativamente come *molto severa*[7], mentre nella Carta dei battenti e nella Carte della velocità della corrente non sono stati indicati valori di battente e di velocità.

[7] Ai sensi della let. b) comma 2 dell'art. 18 si è assunto un battente pari a 2 m, da cui deriva una magnitudo idraulica molto severa.

9 Considerazioni conclusive

È opportuno precisare che i risultati ottenuti con le presenti verifiche idrologiche ed idrauliche sono naturalmente basati sulle conoscenze attuali del sistema idrografico e dei dati idrologici disponibili, nonché sull'ipotesi fondamentale che le sezioni idrauliche dei corsi d'acqua oggetto di verifica siano mantenute in futuro almeno nelle medesime condizioni di officiosità idraulica.

Infatti, i risultati illustrati nel presente studio sono vincolati alla sussistenza delle attuali condizioni e assetti del reticolo idrografico idraulicamente rilevante: eventuali future modifiche di tali assetti, ovvero la modifica del quadro conoscitivo indotto da futuri eventi meteorologici estremi, imporranno adeguate revisioni dei risultati qui ottenuti ed esposti.

Inoltre, in relazione anche alla futura evoluzione del processo di espansione edilizia, a variazioni significative dell'assetto dell'uso del suolo o delle reti idrauliche naturali o artificiali interferenti con le aree investigate, le analisi qui svolte dovranno essere aggiornate.

I tecnici incaricati

Ing. Remo Chiarini Ing. Alessandro Berni Ing. Luigi Bigazzi

APPENDICE 1

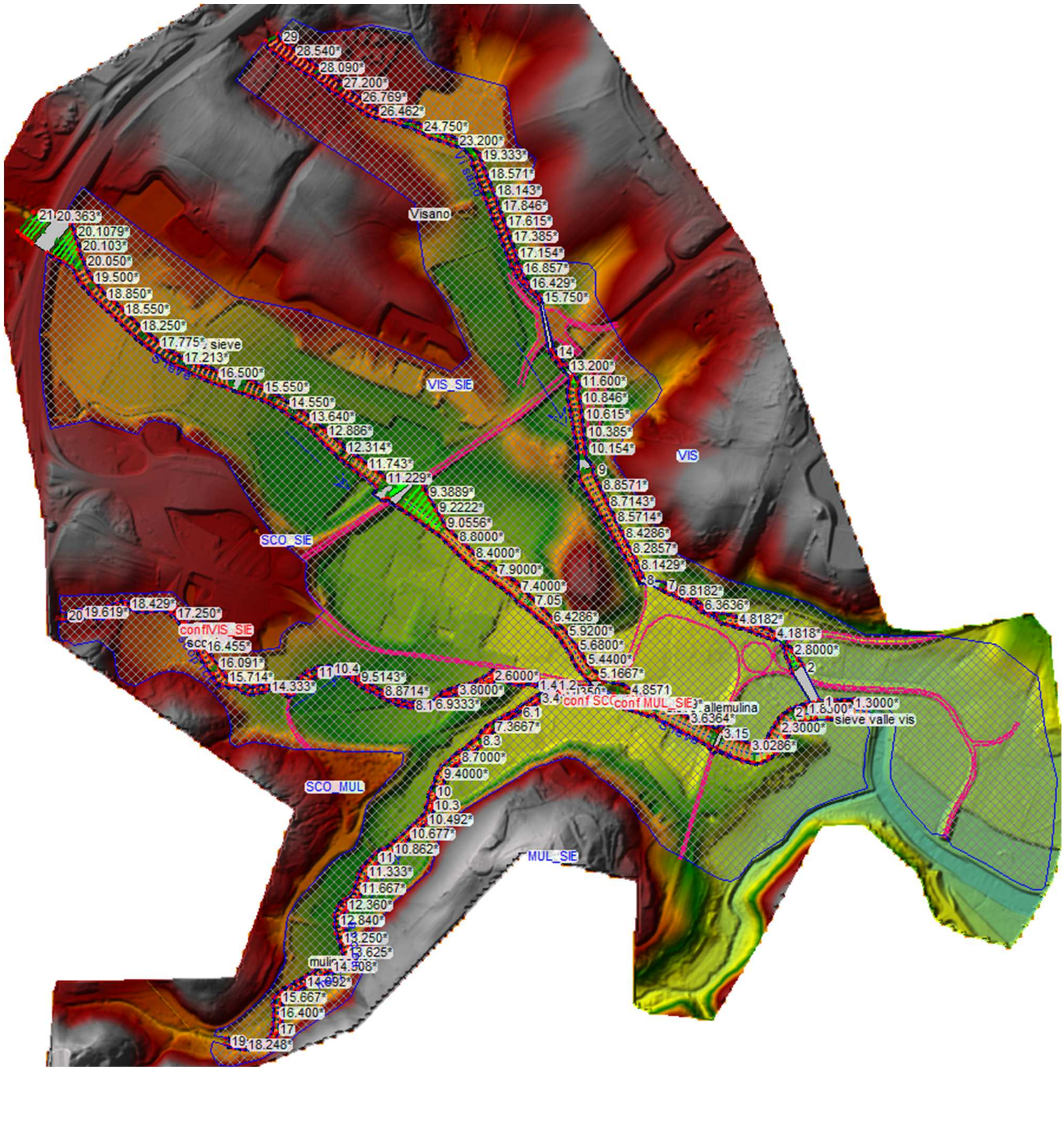
Outputs grafici e numerici delle simulazioni effettuate in regime di moto vario con il software Hec-Ras

FIUME SIEVE

FOSSO SCOPICCI

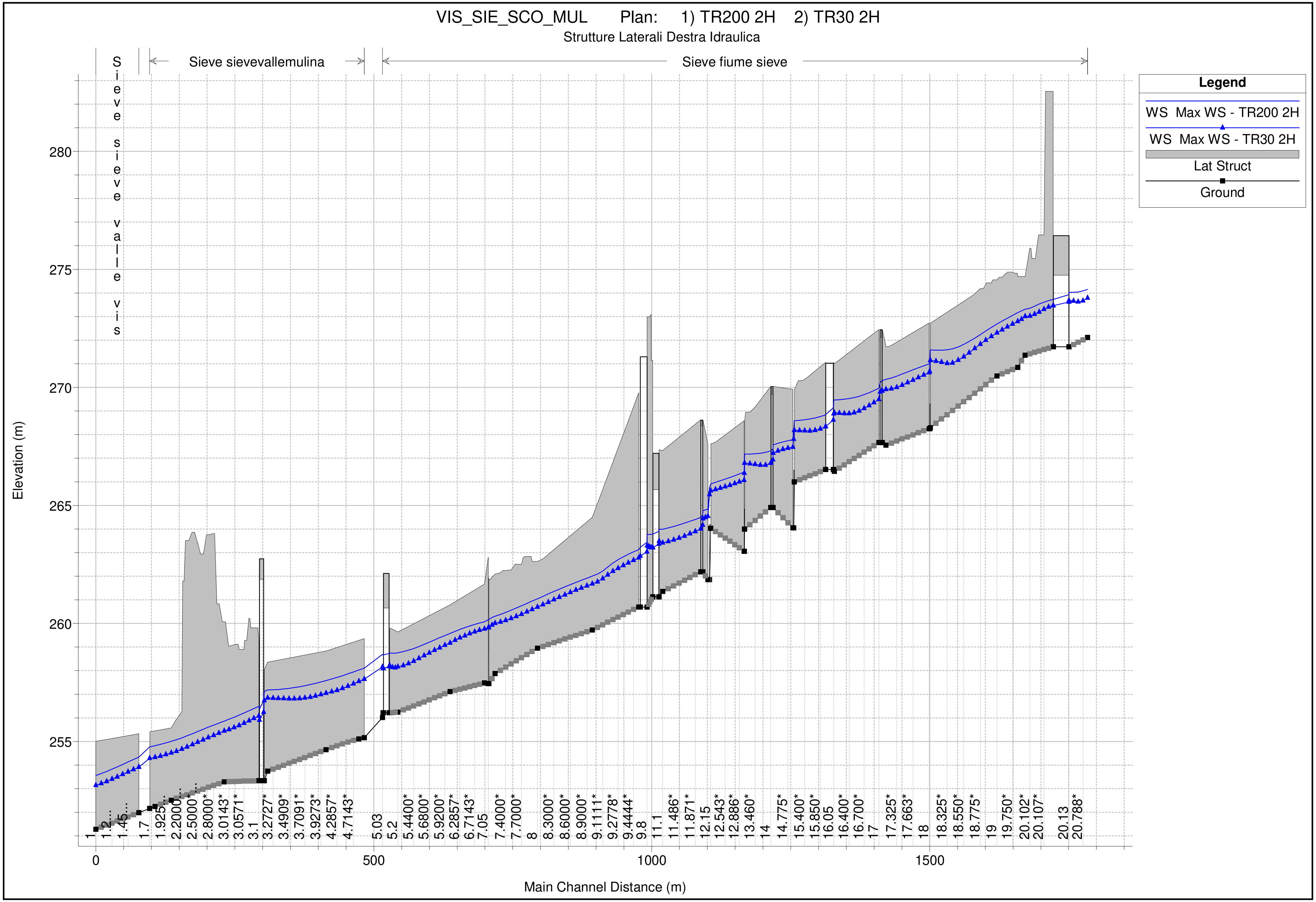
FOSSO DELLA MULINACCIA

FOSSO DI VISANO

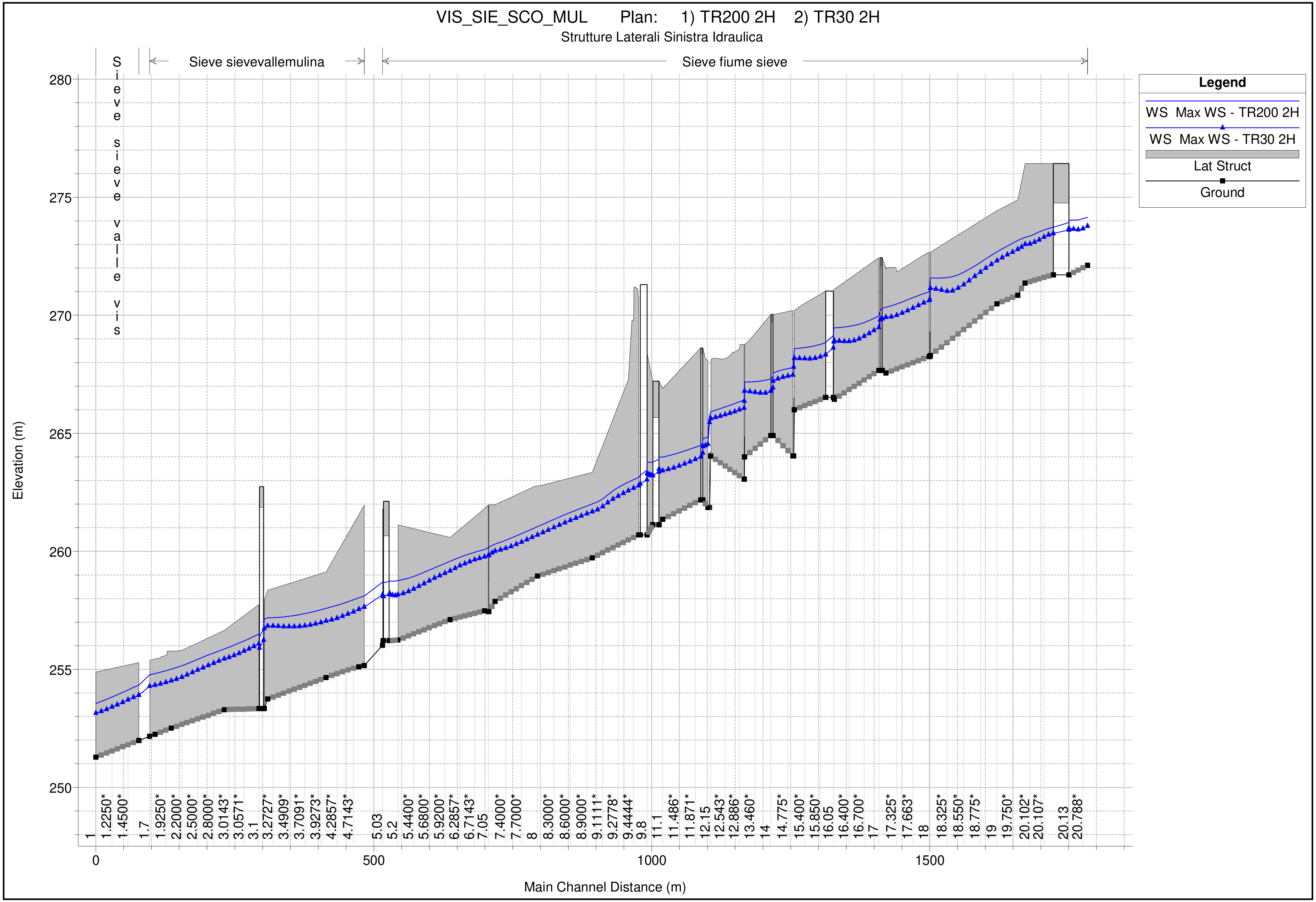


Visano
VIS_SIE
VIS
SCO_SIE
SCO_MUL
MUL_SIE
sieve
confVIS_SIE
sieve valle vis
allemulina

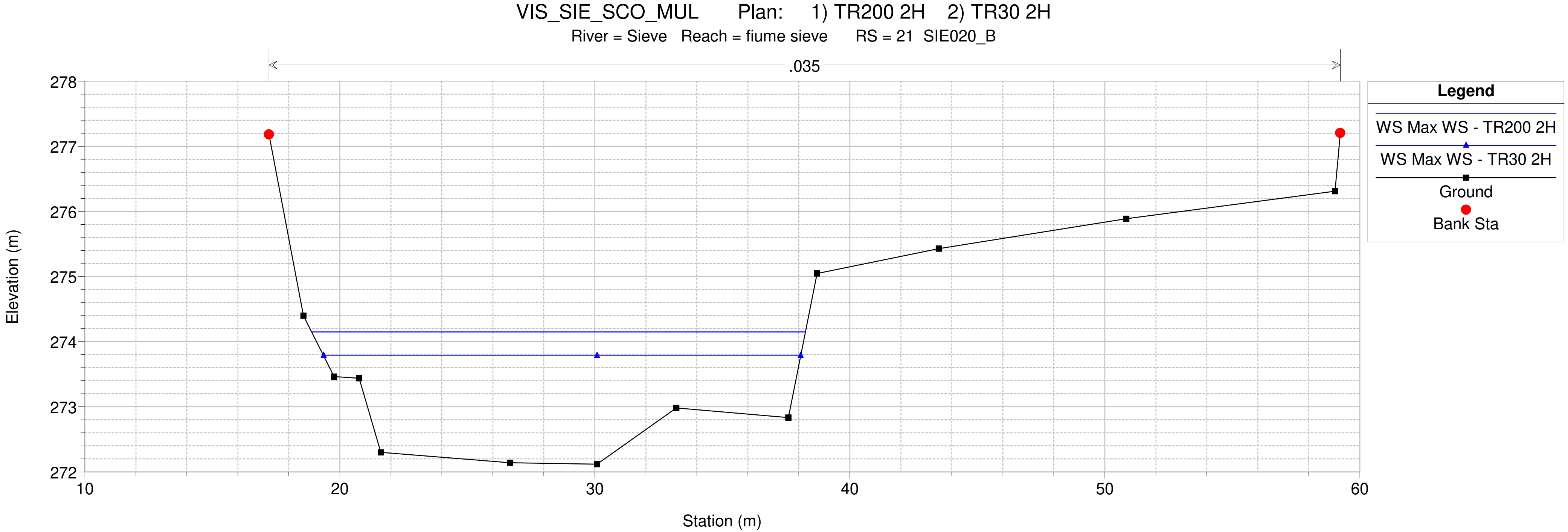
FIUME
SIEVE



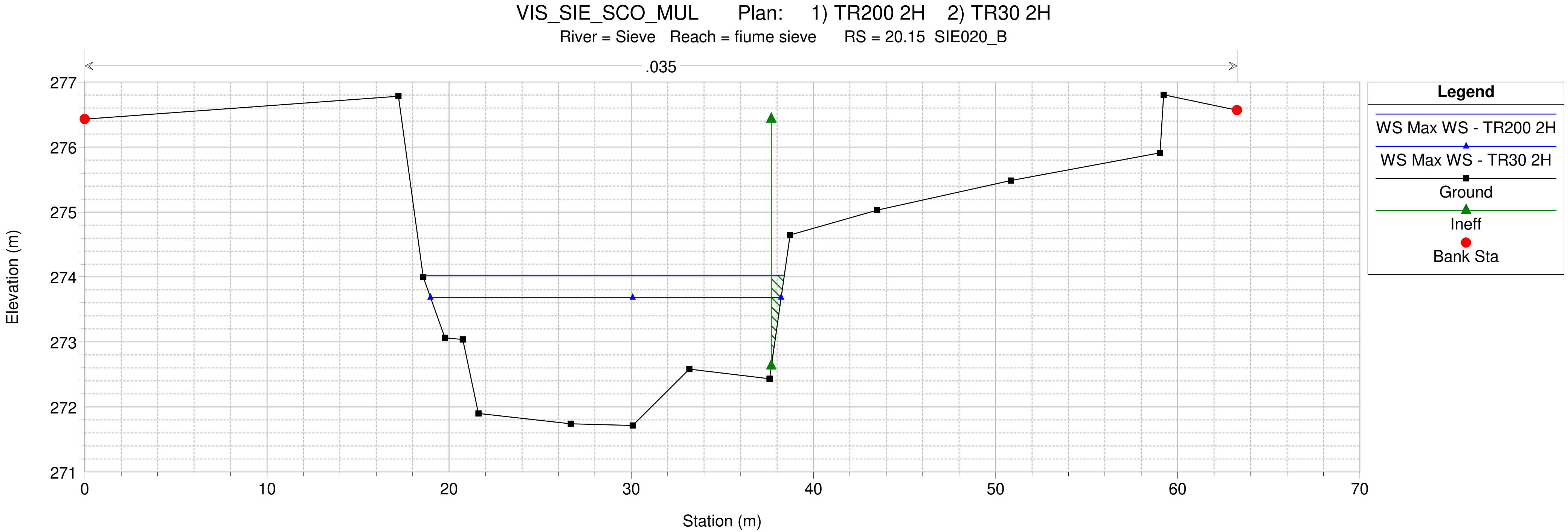
1 cm Horiz. = 85 m   1 cm Vert. = 2 m



1 cm Horiz. = 85 m   1 cm Vert. = 2 m



VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 21 SIE020_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta



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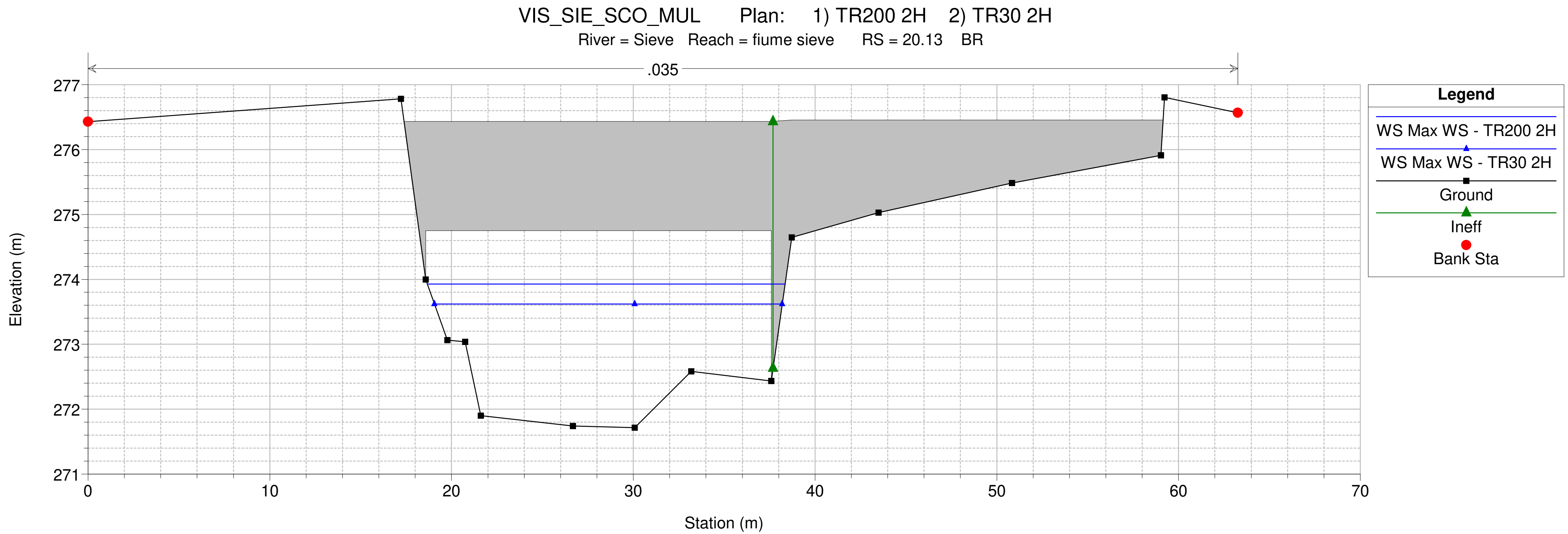
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta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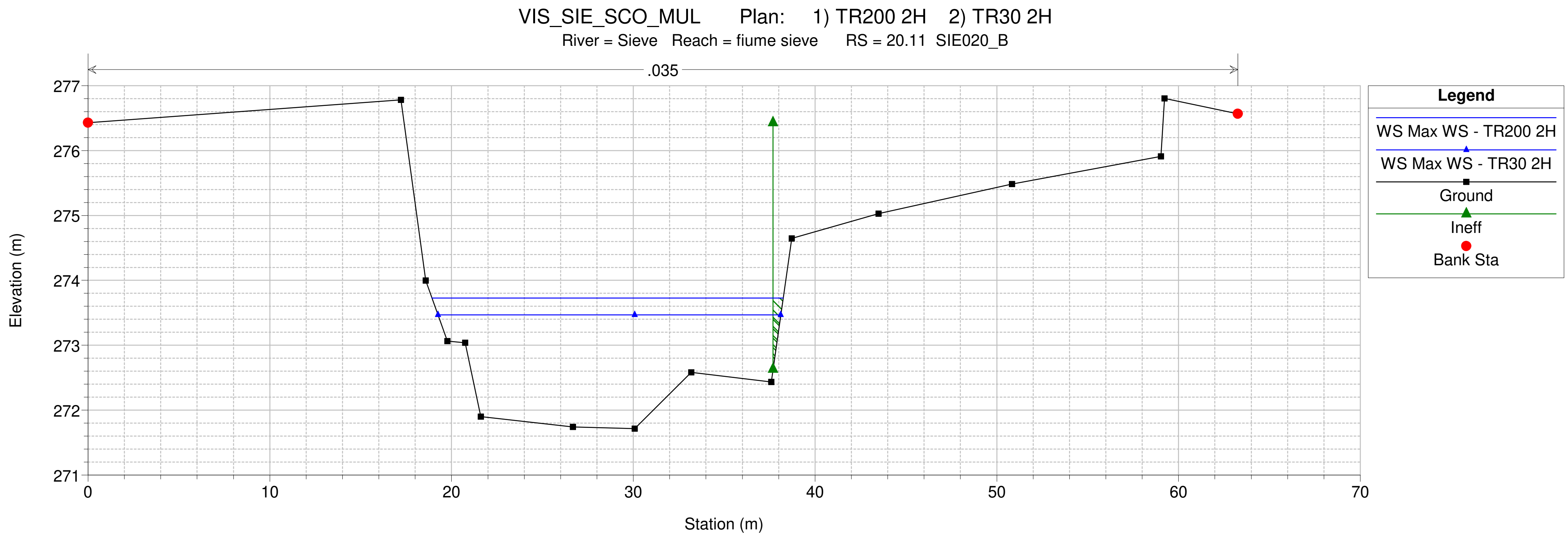
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta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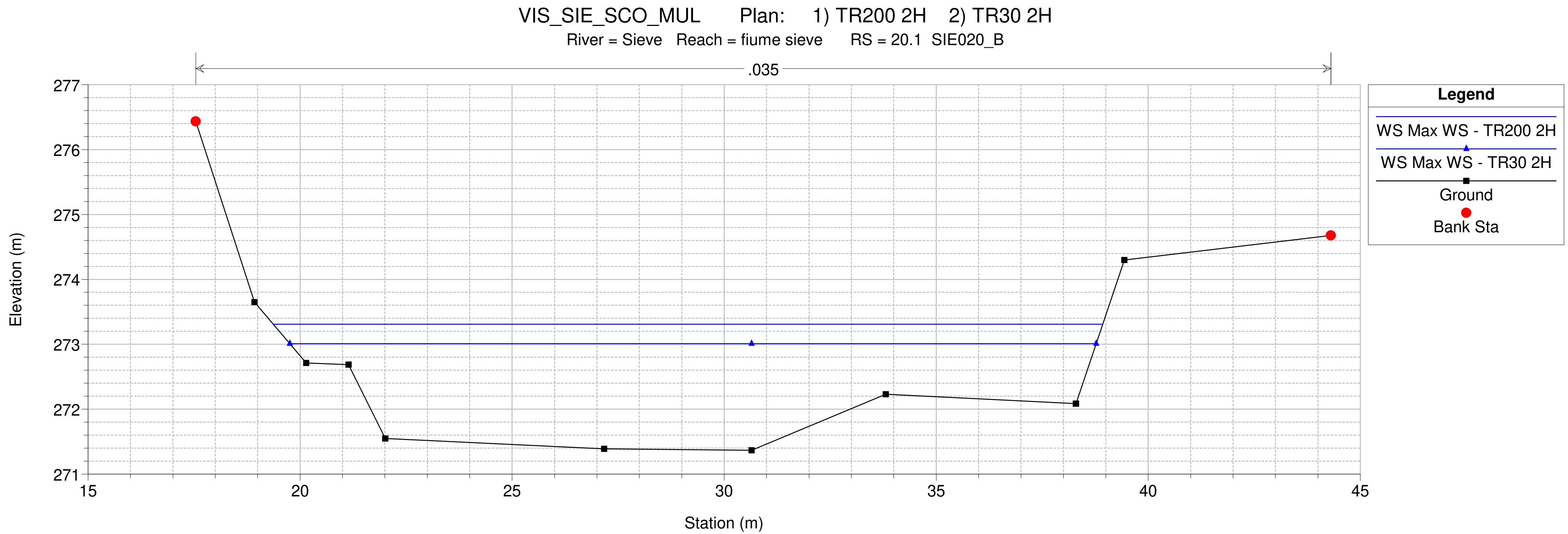
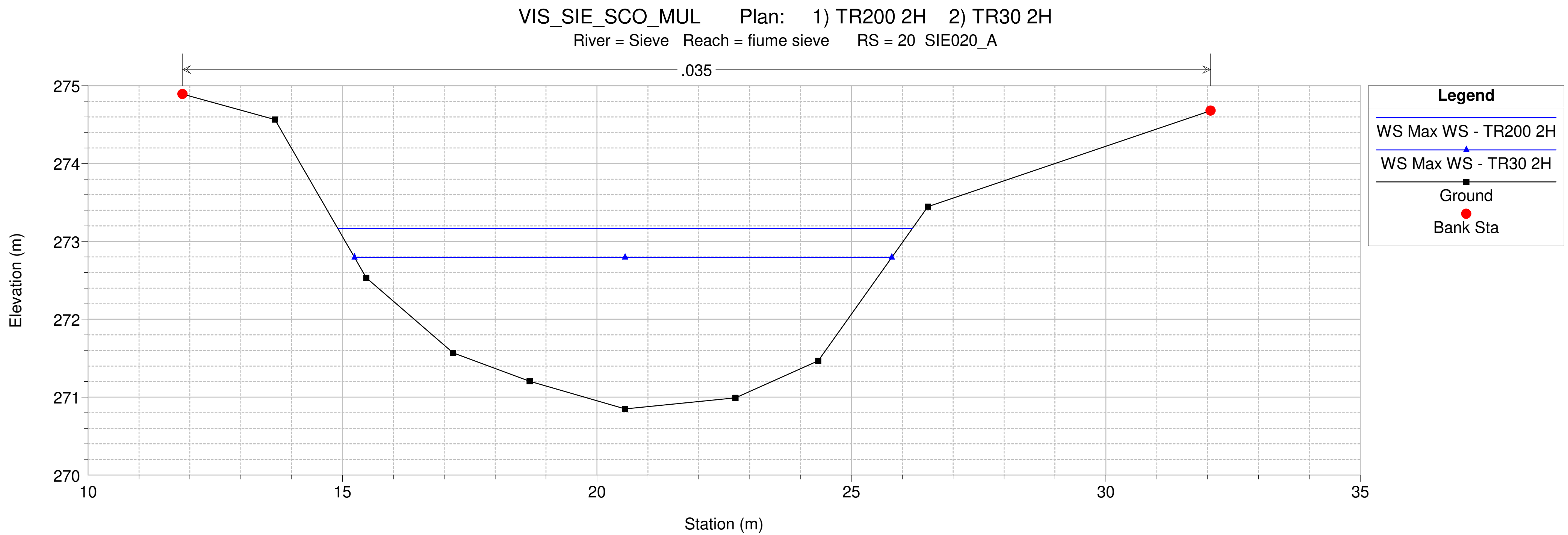
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 20.1 SIE020_B
.035
Elevation (m)
Station (m)
277
276
275
274
273
272
271
15
20
25
30
35
40
45
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta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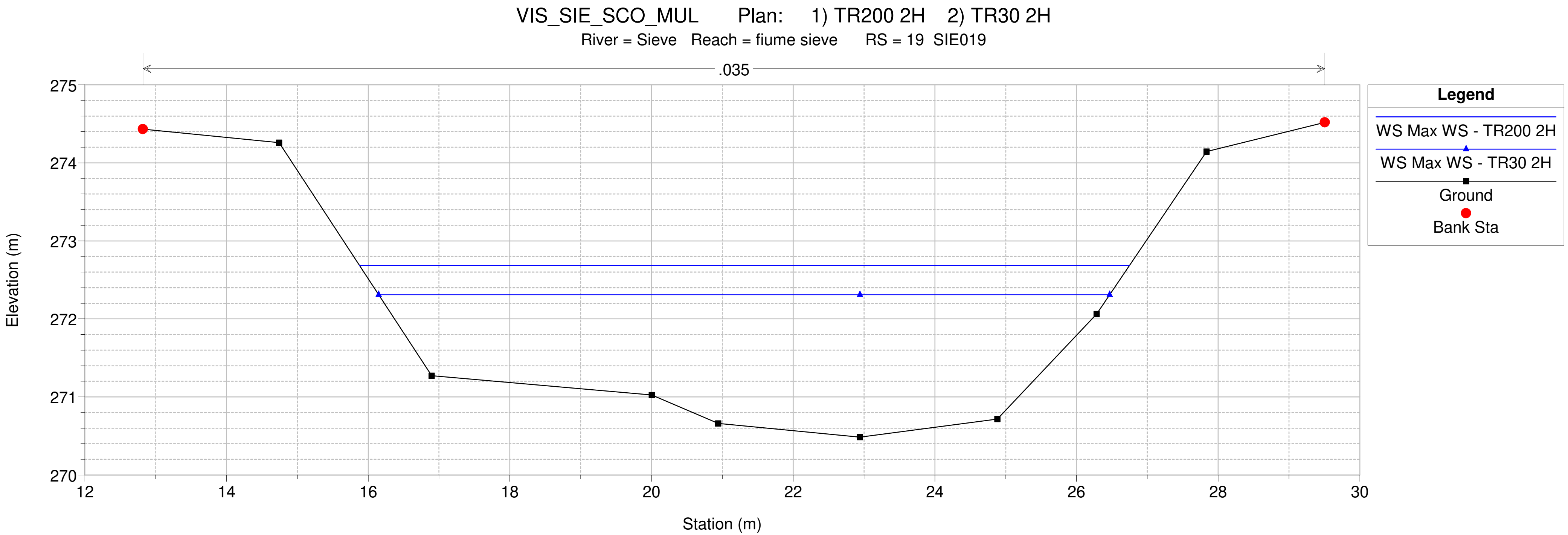
.035
Elevation (m)
Station (m)
275
274
273
272
271
270
10
15
20
25
30
35
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta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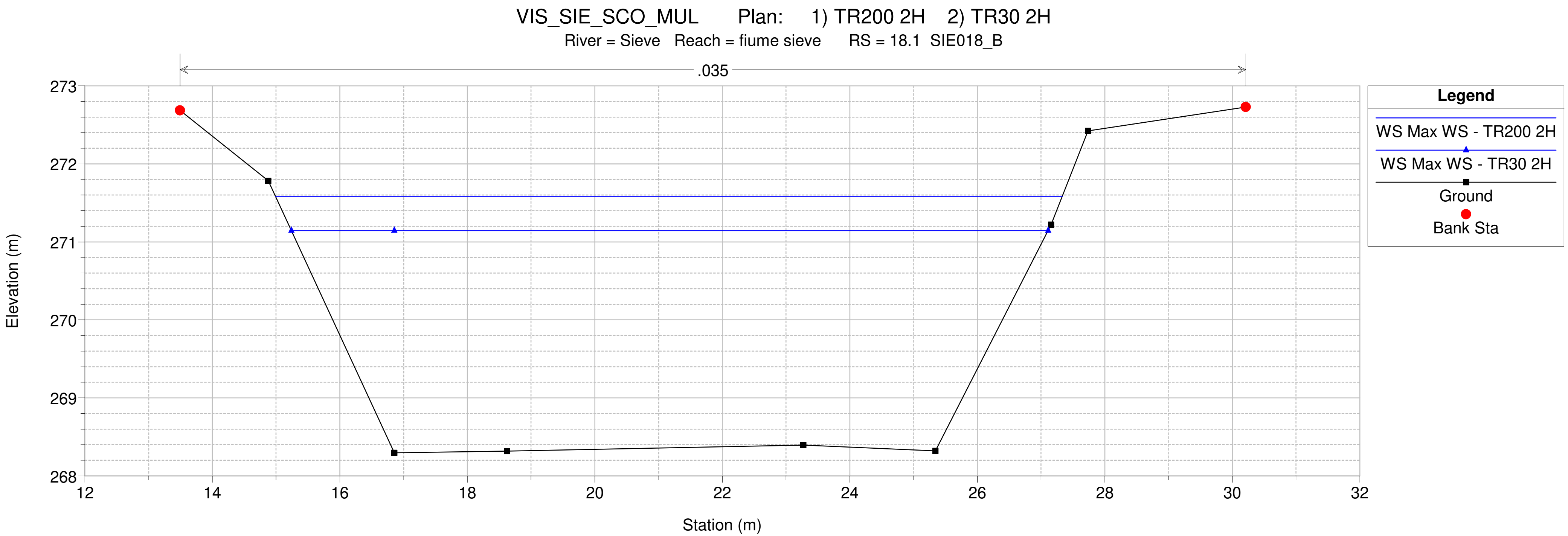
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 18.1 SIE018_B
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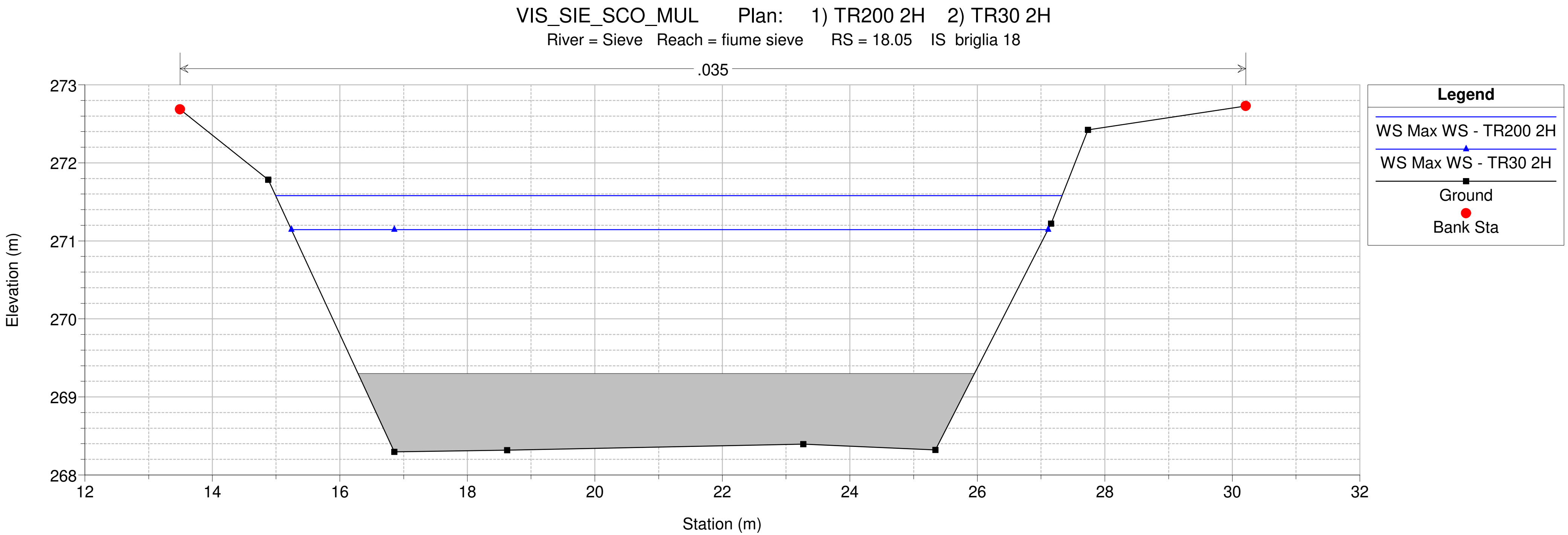
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta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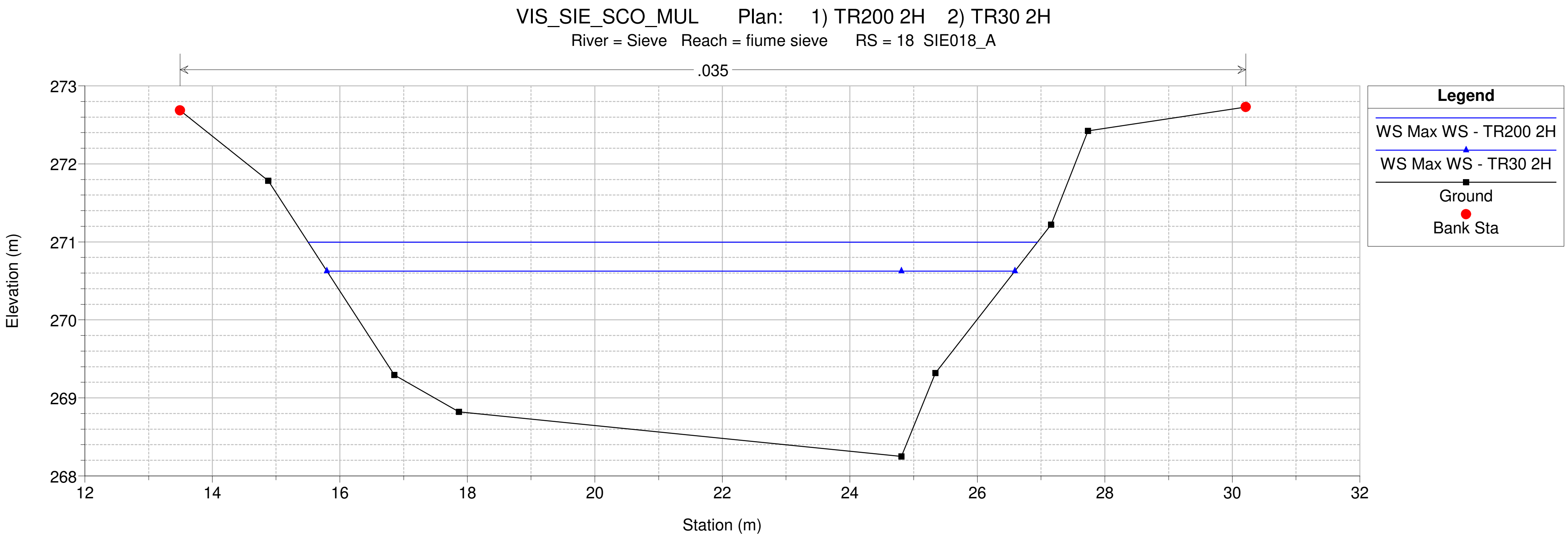
River = Sieve Reach = fiume sieve RS = 18.05 IS briglia 18
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta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River = Sieve Reach = fiume sieve RS = 18 SIE018_A
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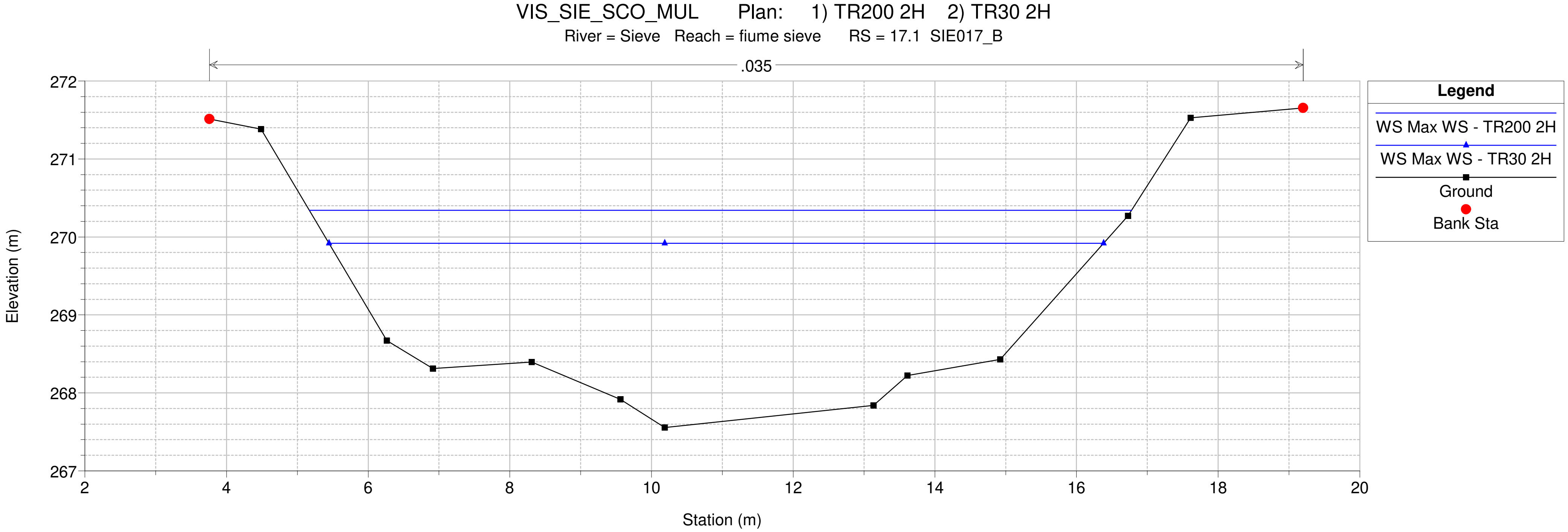
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
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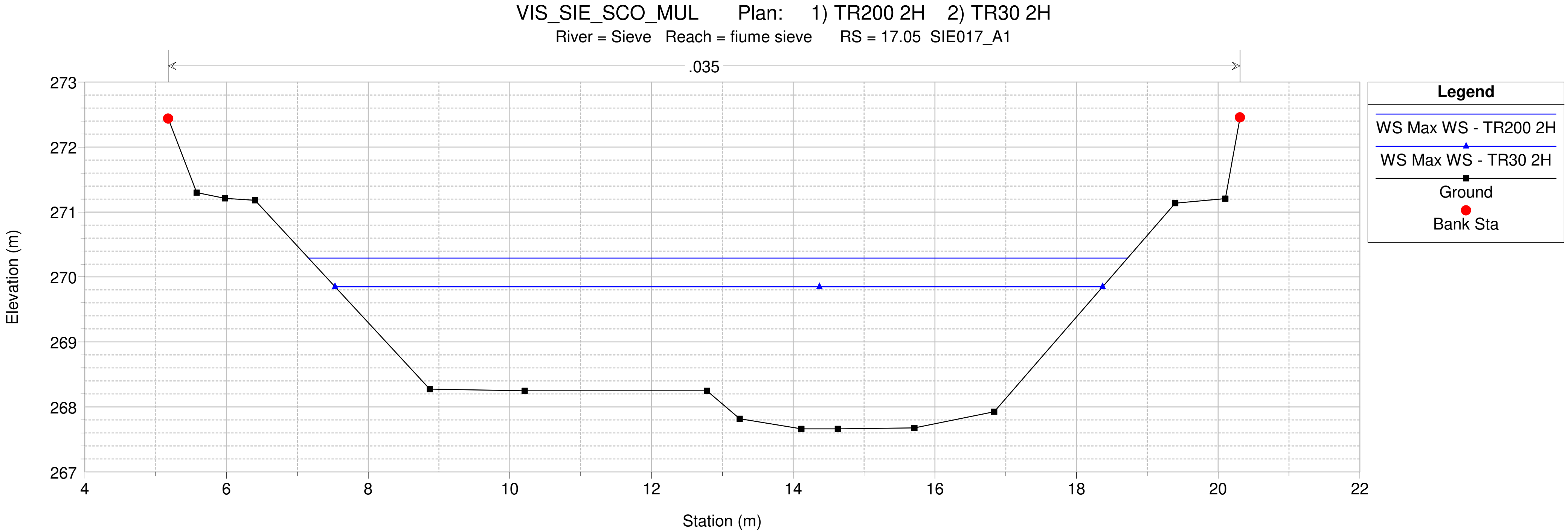
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
272
271
270
269
268
267
2
4
6
8
10
12
14
16
18
20


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 17.05 SIE017_A1
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
273
272
271
270
269
268
267
4
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8
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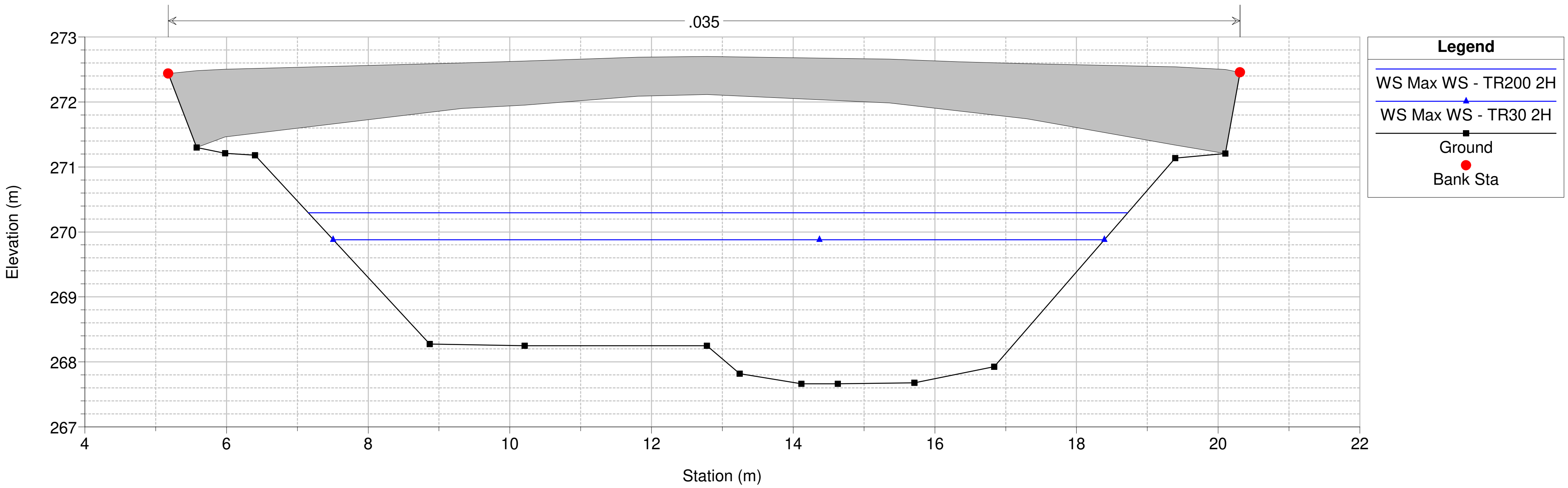
12
14
16
18
20
22

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 17.03 BR IV° PASSERELLA INGRESSO OUTLET



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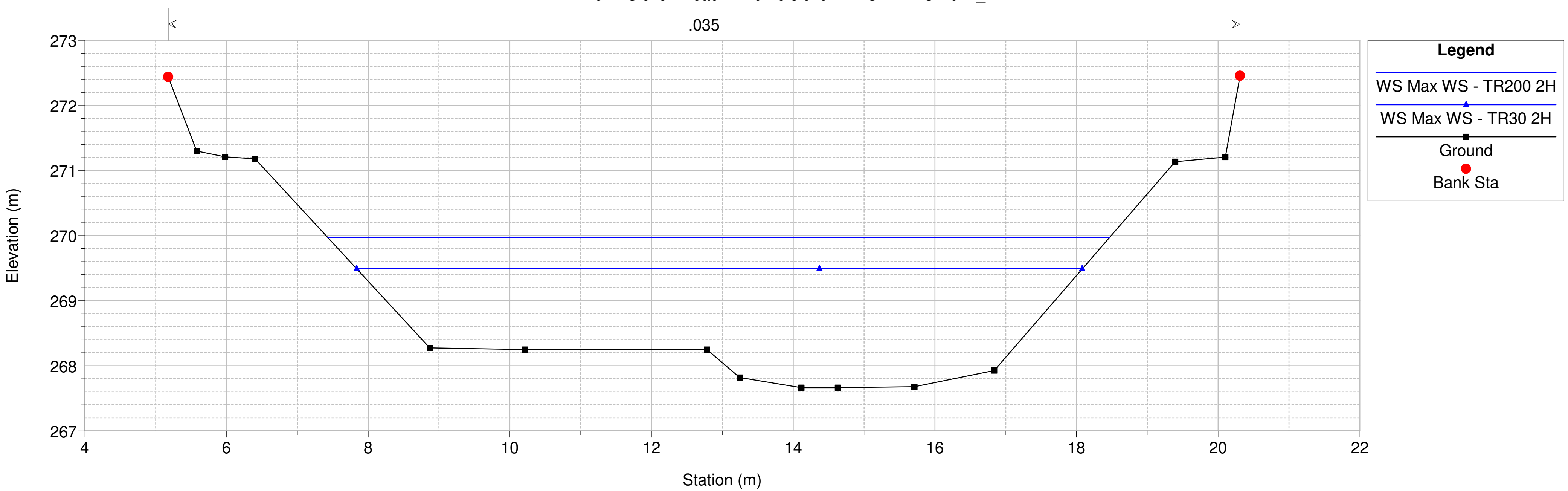
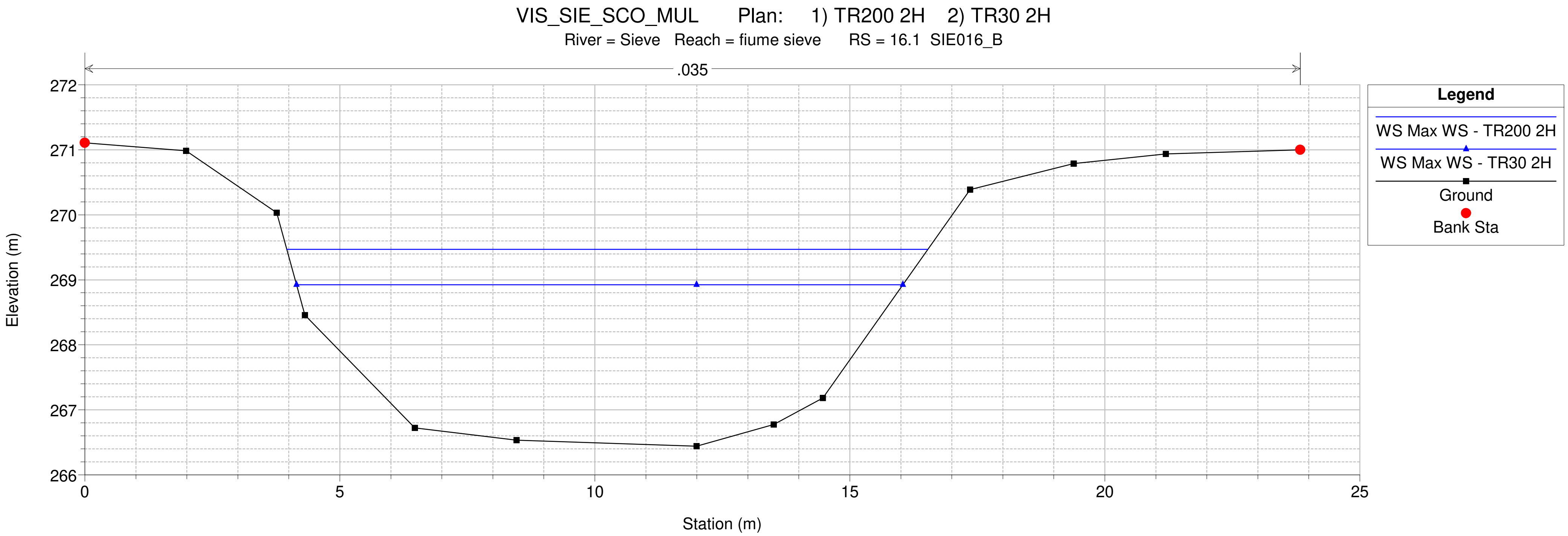
River = Sieve Reach = fiume sieve RS = 17 SIE017_A

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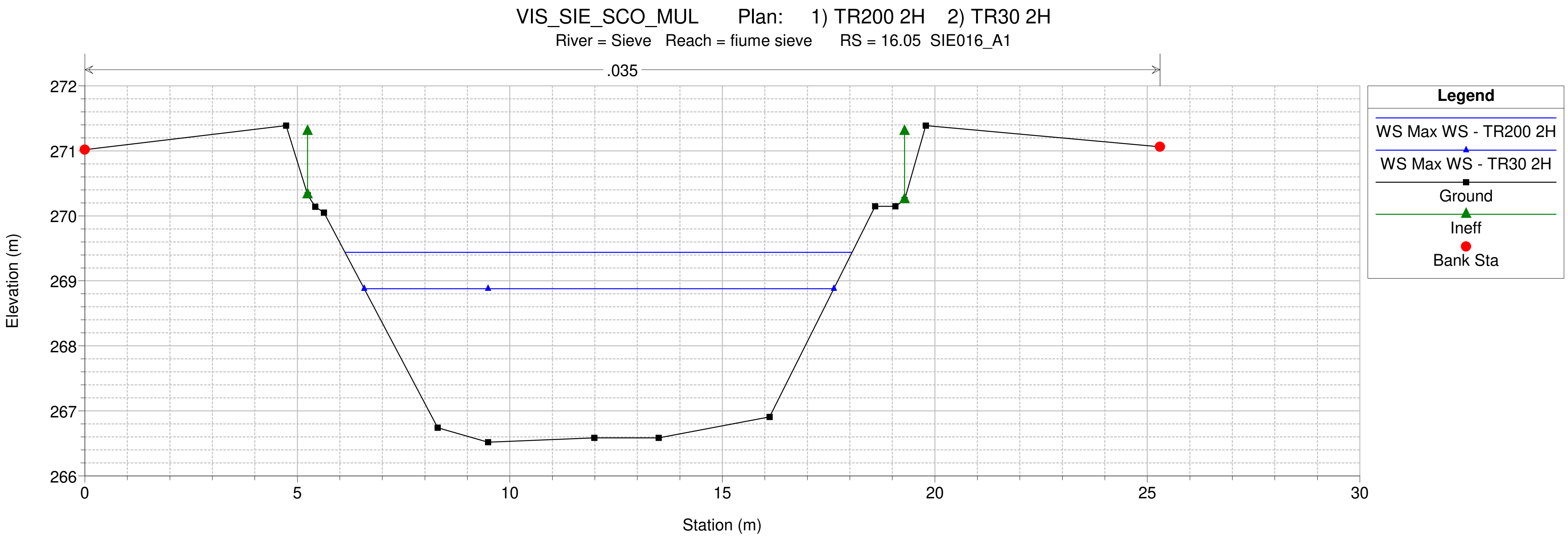
River = Sieve Reach = fiume sieve RS = 16.1 SIE016_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 16.05 SIE016_A1
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
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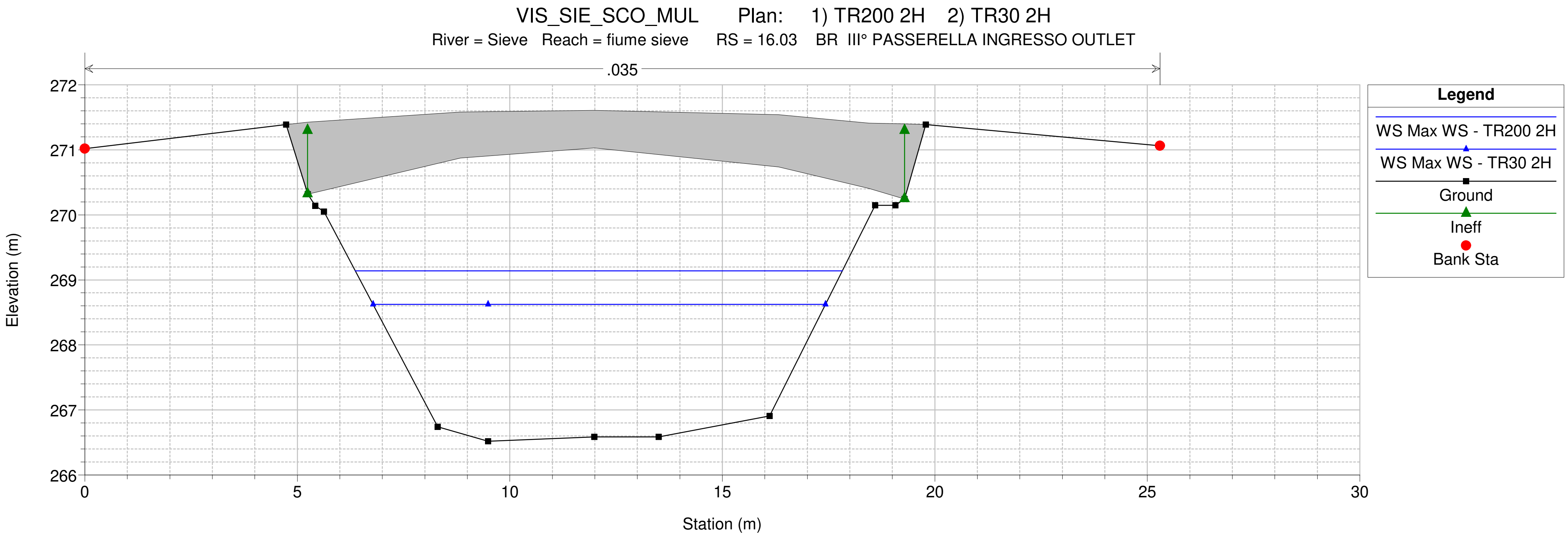
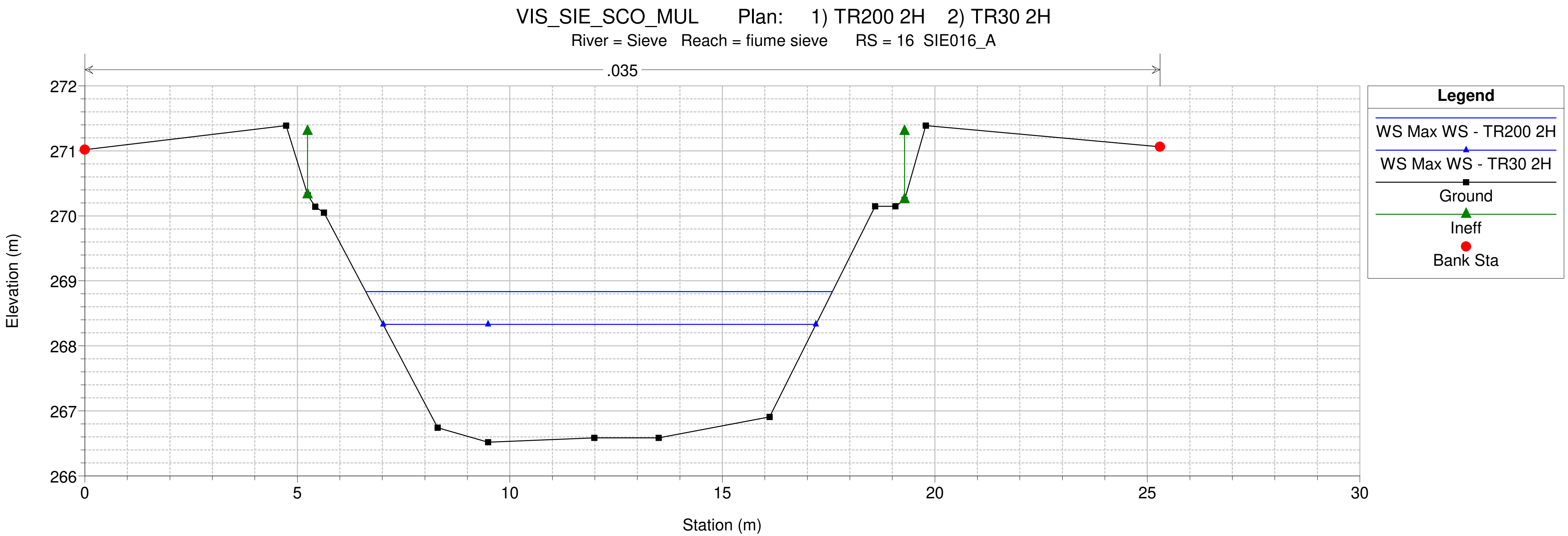
Bank Sta



VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 16.03 BR III° PASSERELLA INGRESSO OUTLET
.035
Elevation (m)
272
271
270
269
268
267
266
0
5
10
15
20
25
30
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta



VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 16 SIE016_A
.035
Elevation (m)
272
271
270
269
268
267
266
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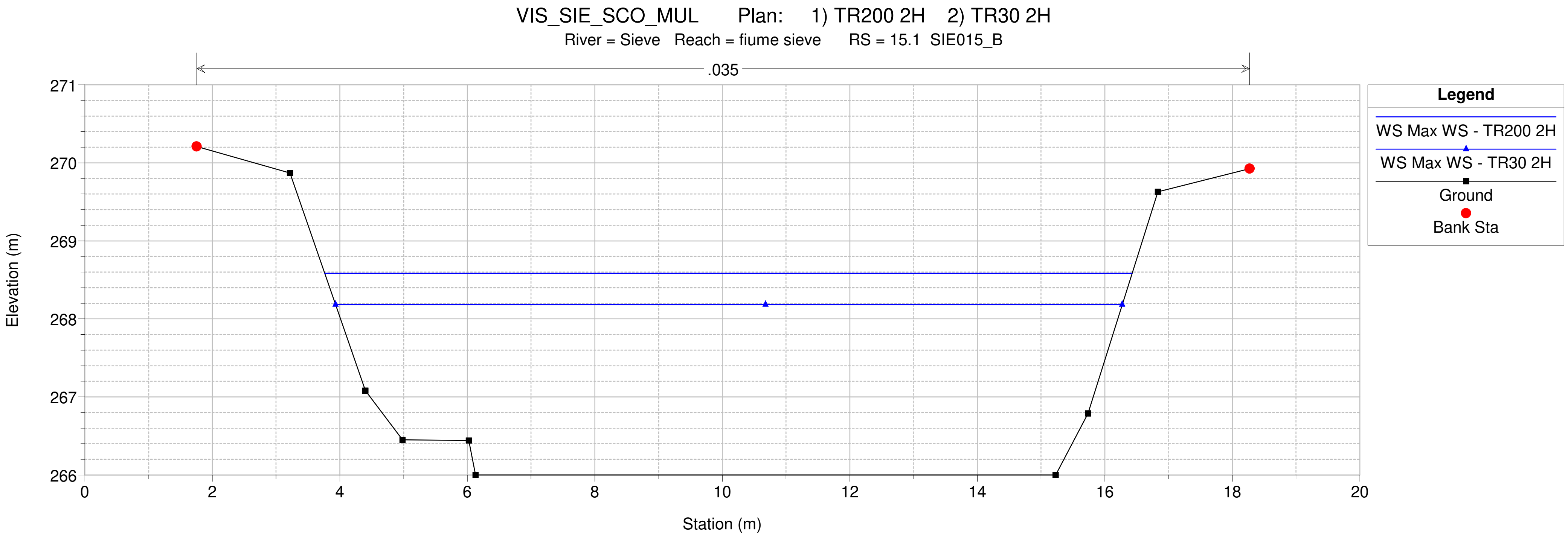
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 15.1 SIE015_B
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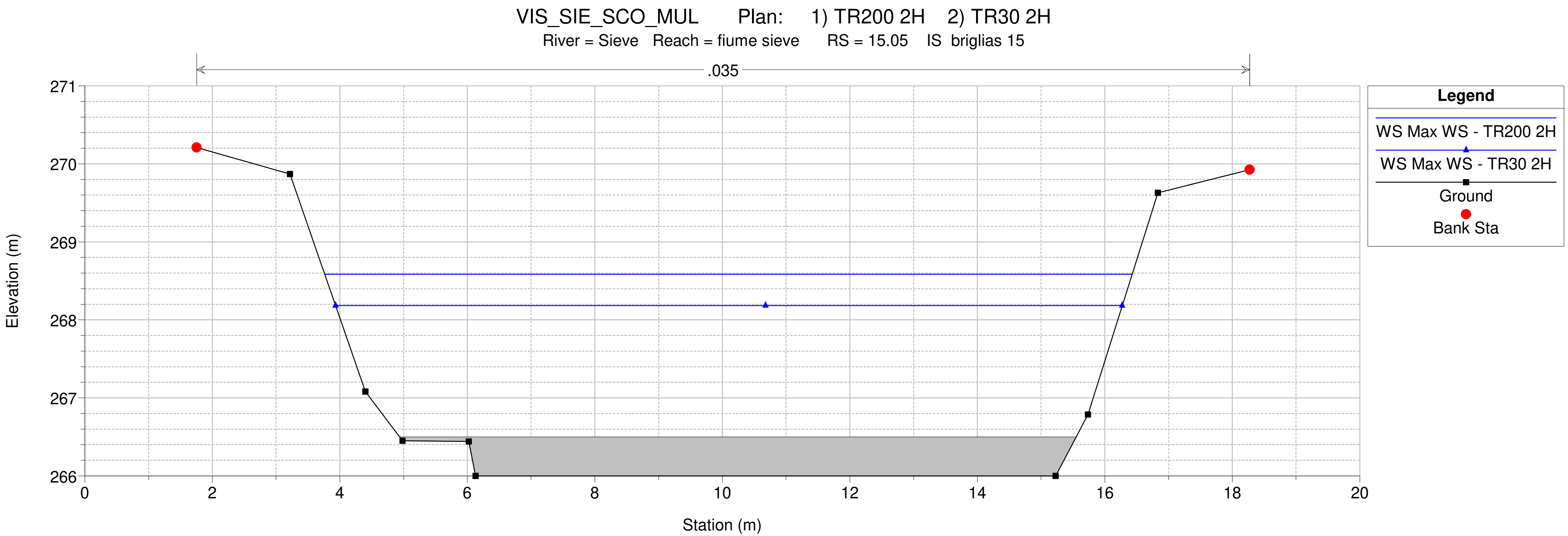
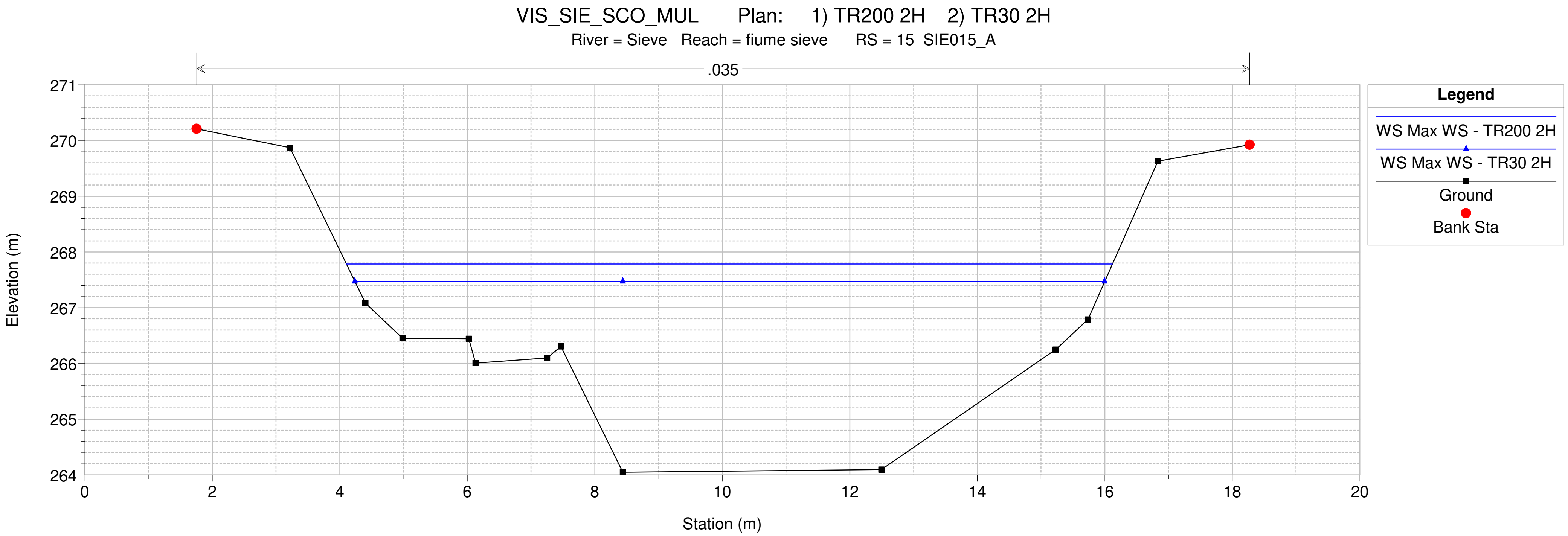
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 15.05 IS briglias 15
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
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.035
Elevation (m)
Station (m)
271
270
269
268
267
266
265
264
0
2
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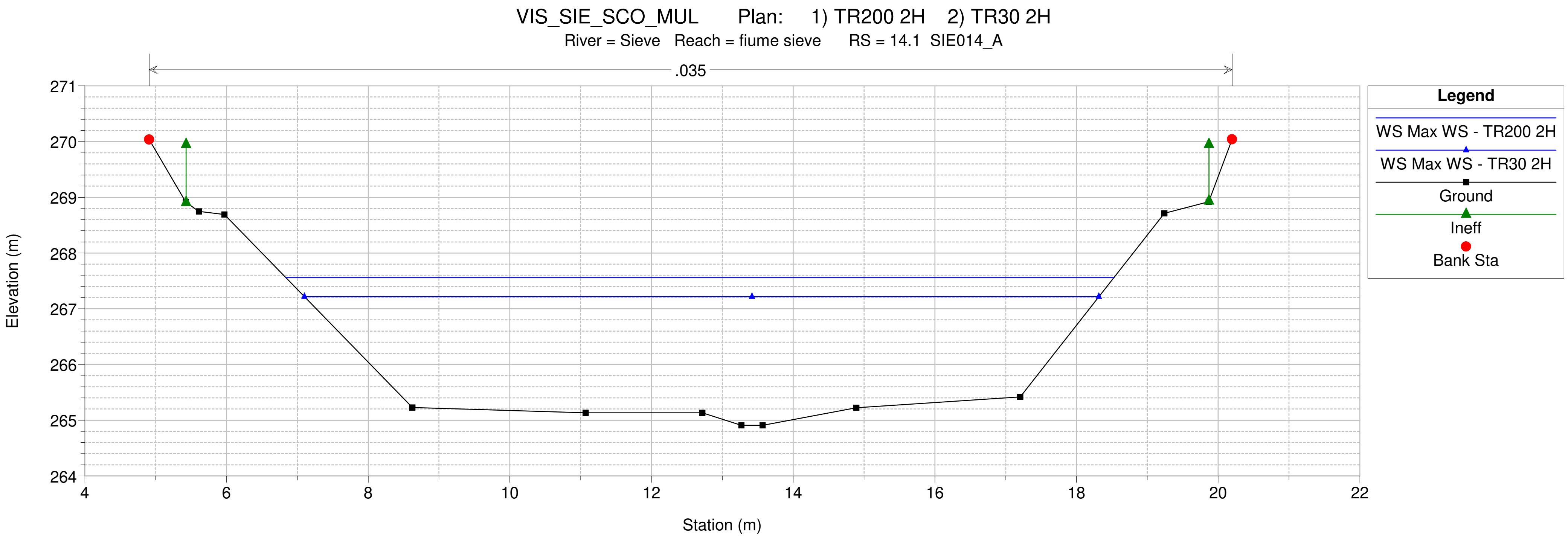
6
8
10
12
14
16
18
20
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta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Elevation (m)
Station (m)
271
270
269
268
267
266
265
264
4
6
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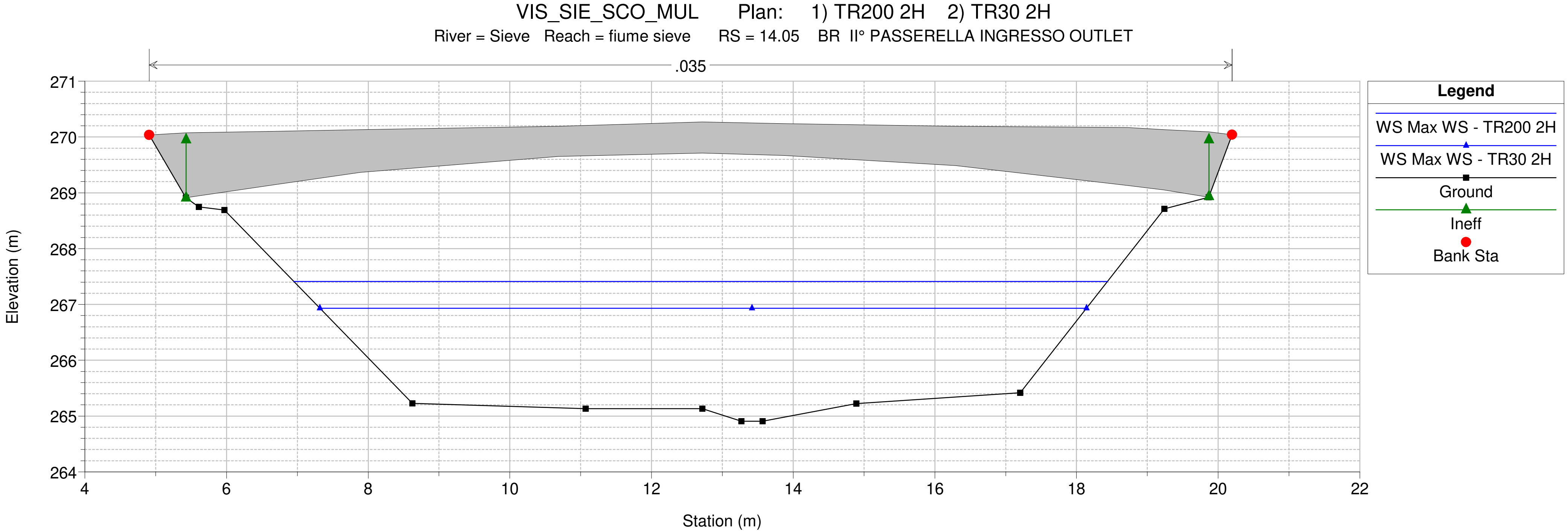
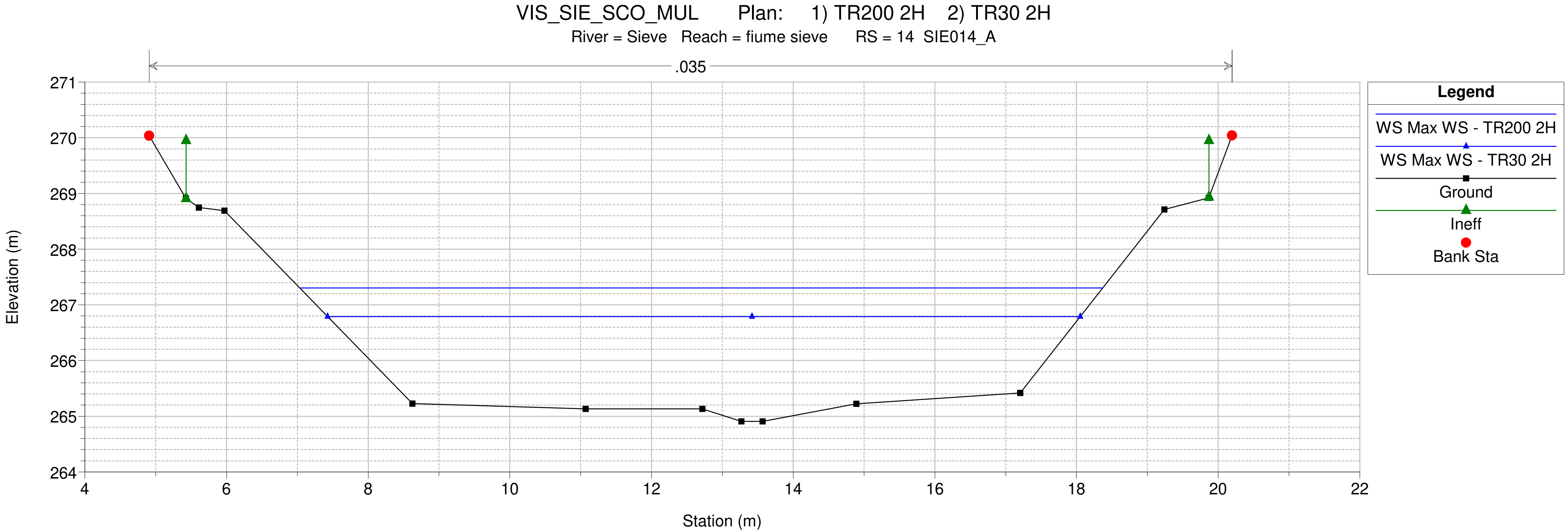
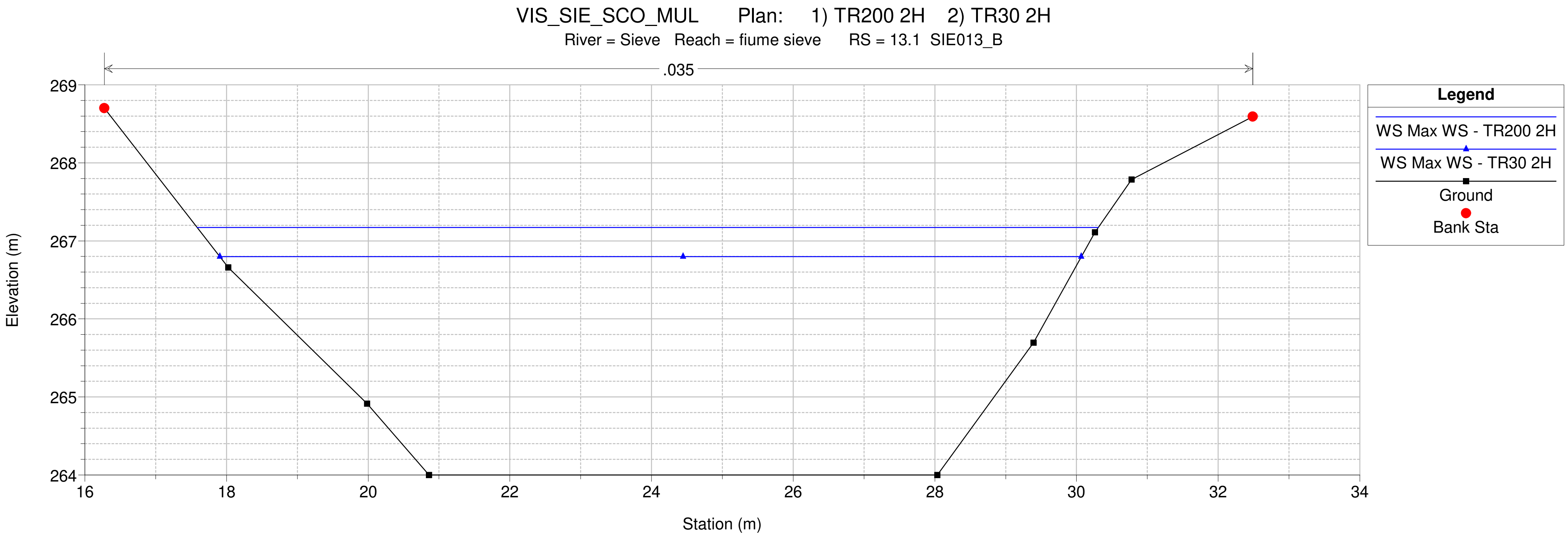
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta



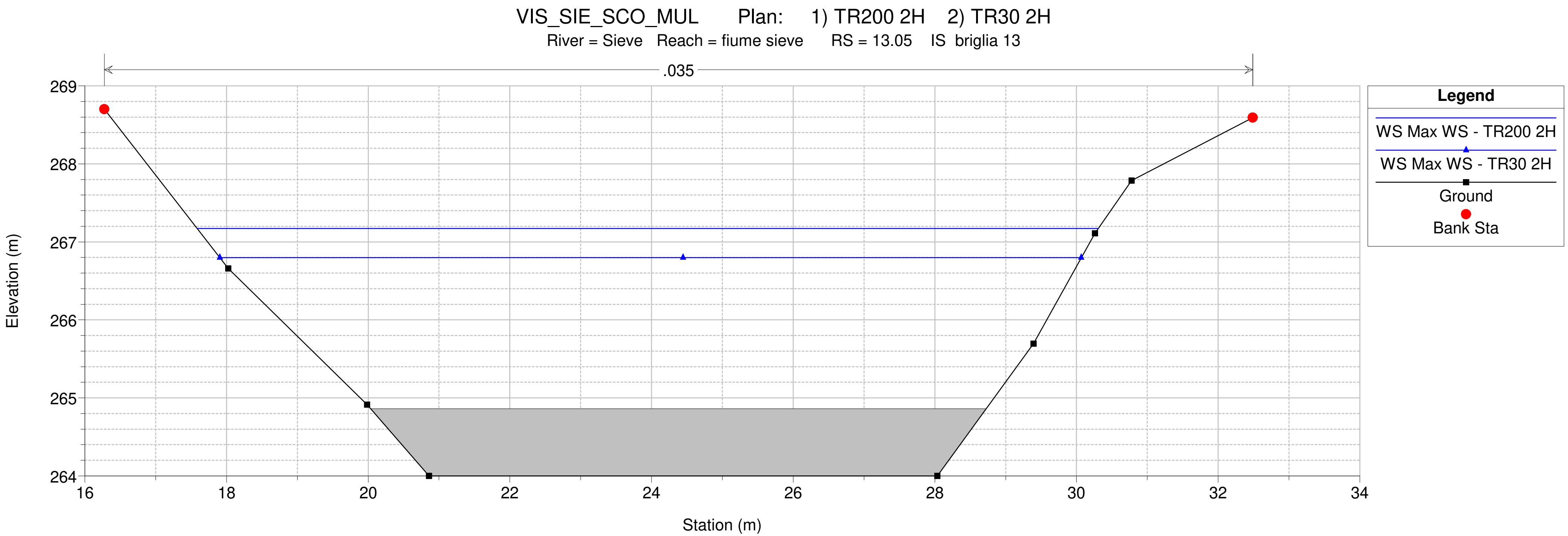
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 14.05 BR II° PASSERELLA INGRESSO OUTLET
.035
Elevation (m)
271
270
269
268
267
266
265
264
4
6
8
10
12
14
16
18
20
22
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta



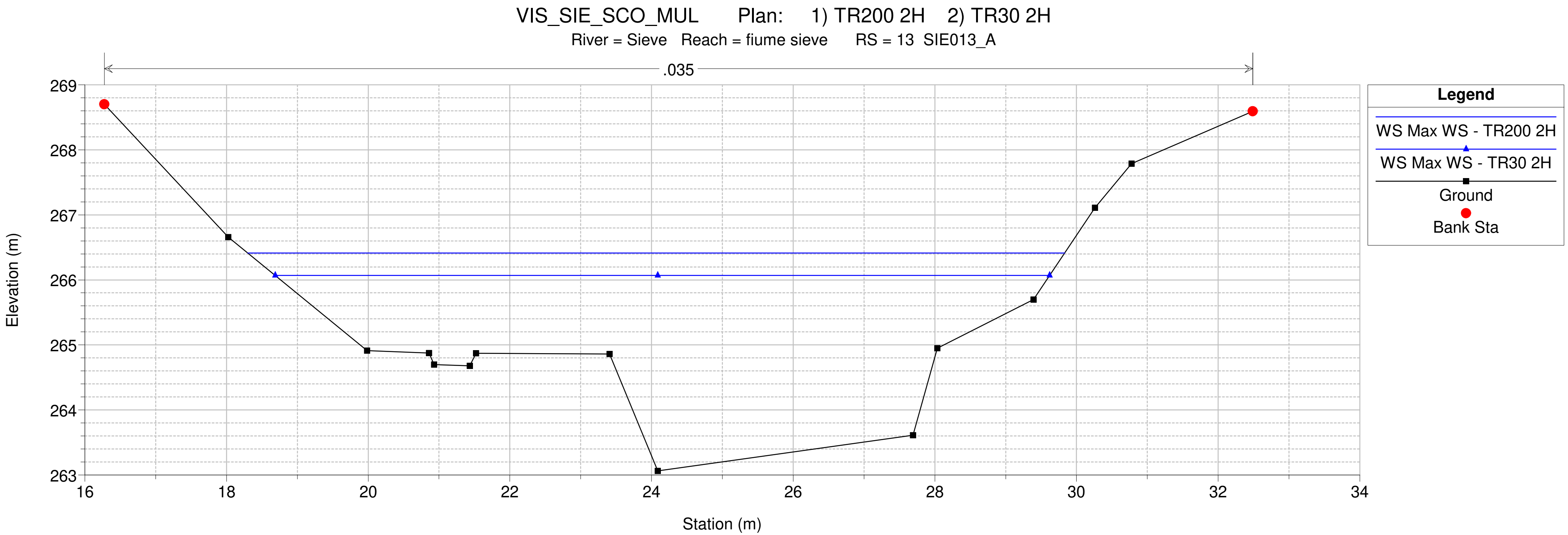
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 14 SIE014_A
.035
Elevation (m)
271
270
269
268
267
266
265
264
4
6
8
10
12
14
16
18
20
22
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

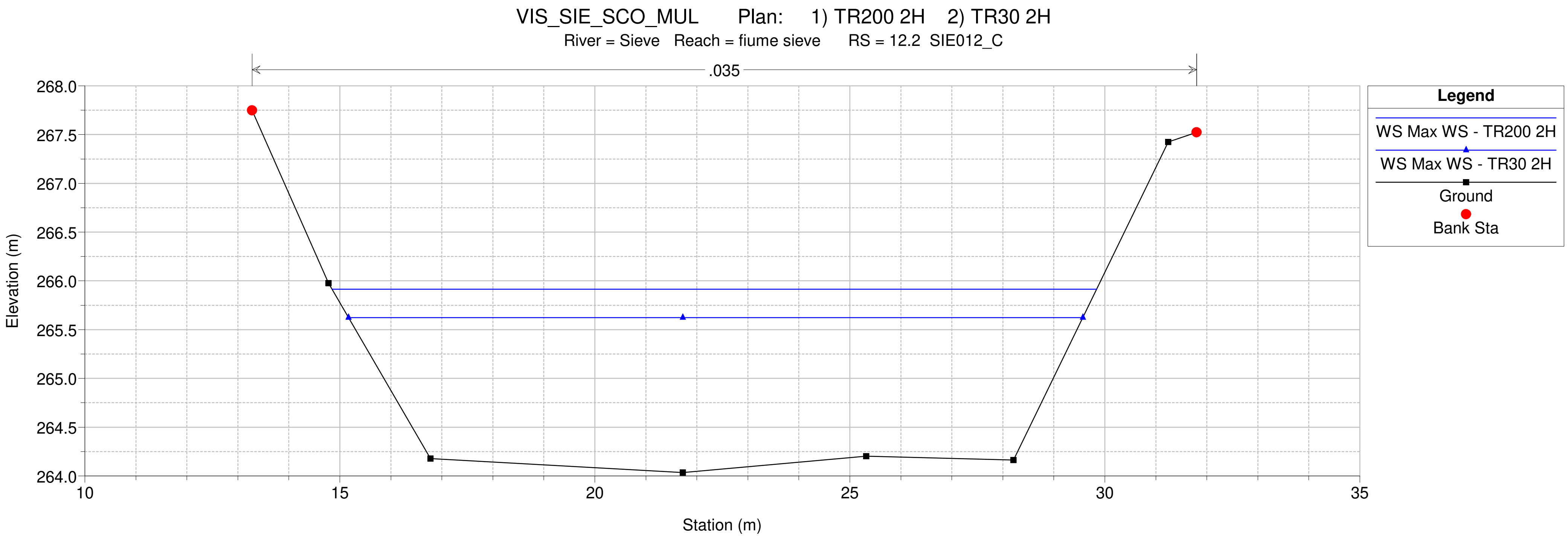


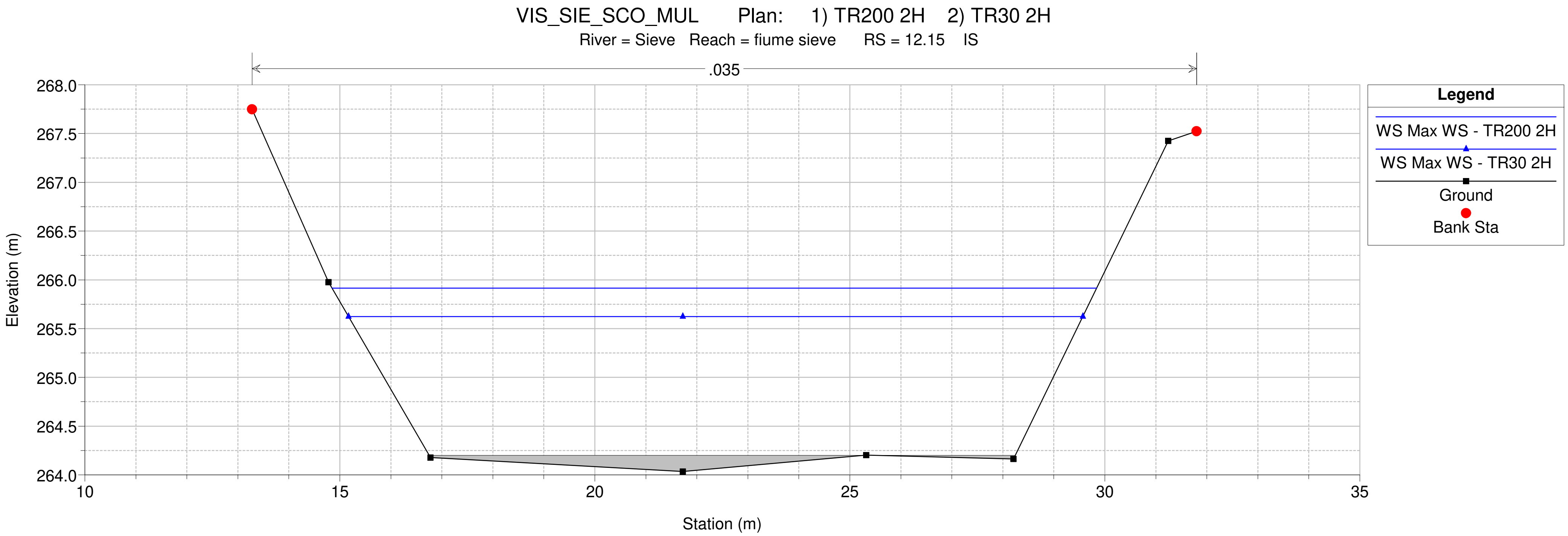
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 13.1 SIE013_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta



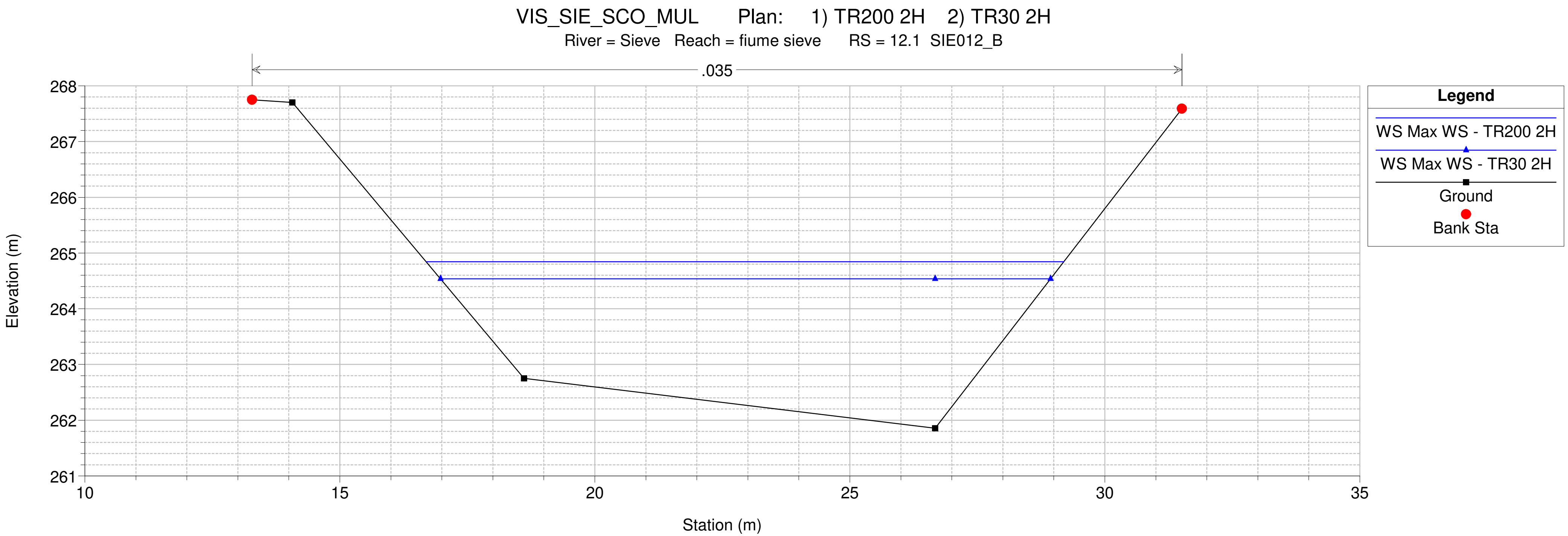
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 13.05 IS briglia 13
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 13 SIE013_A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

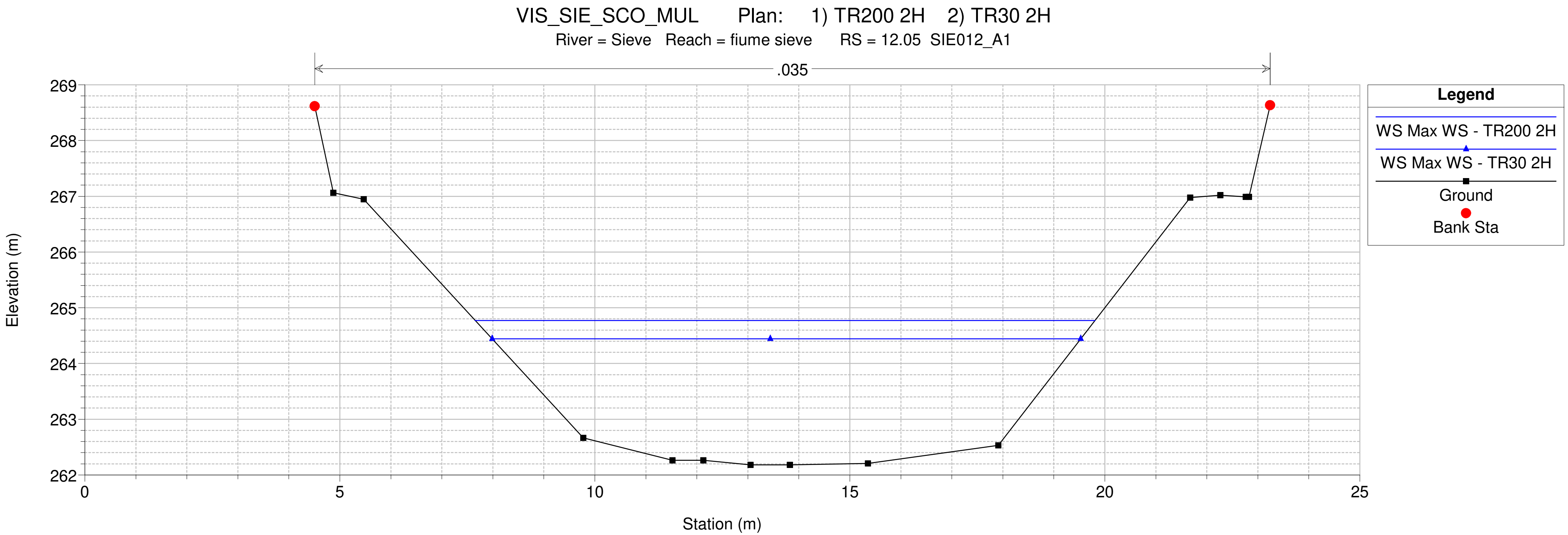

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 12.2 SIE012_C
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

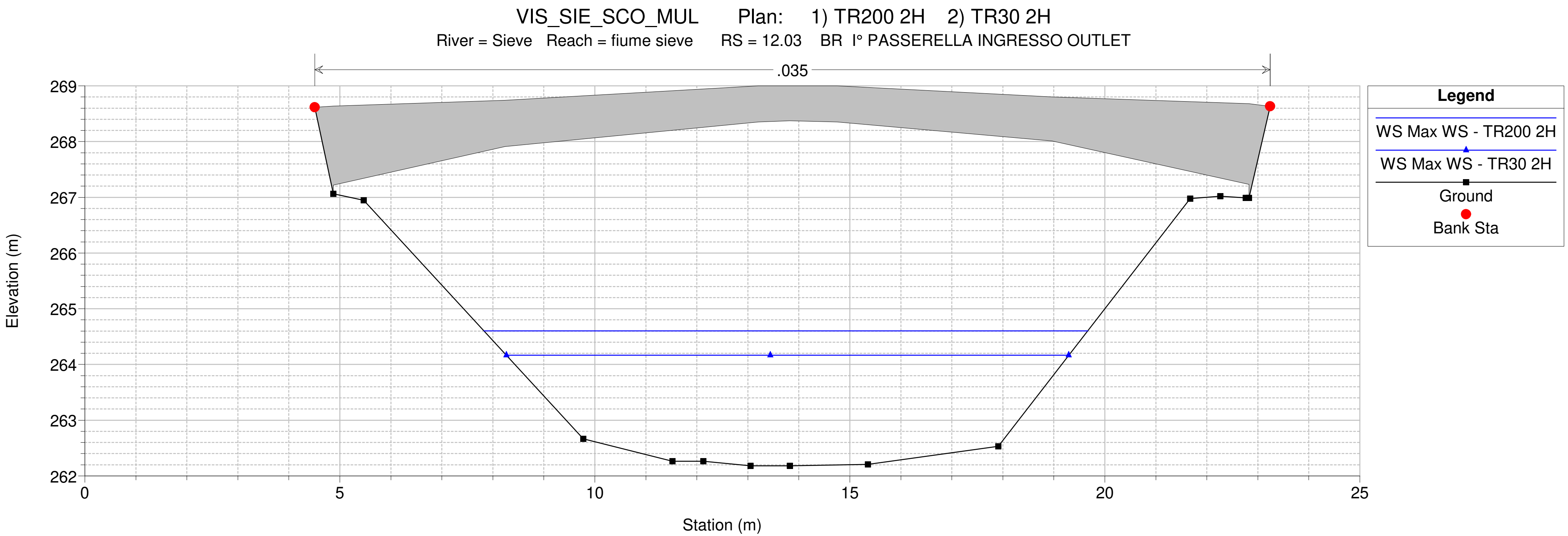


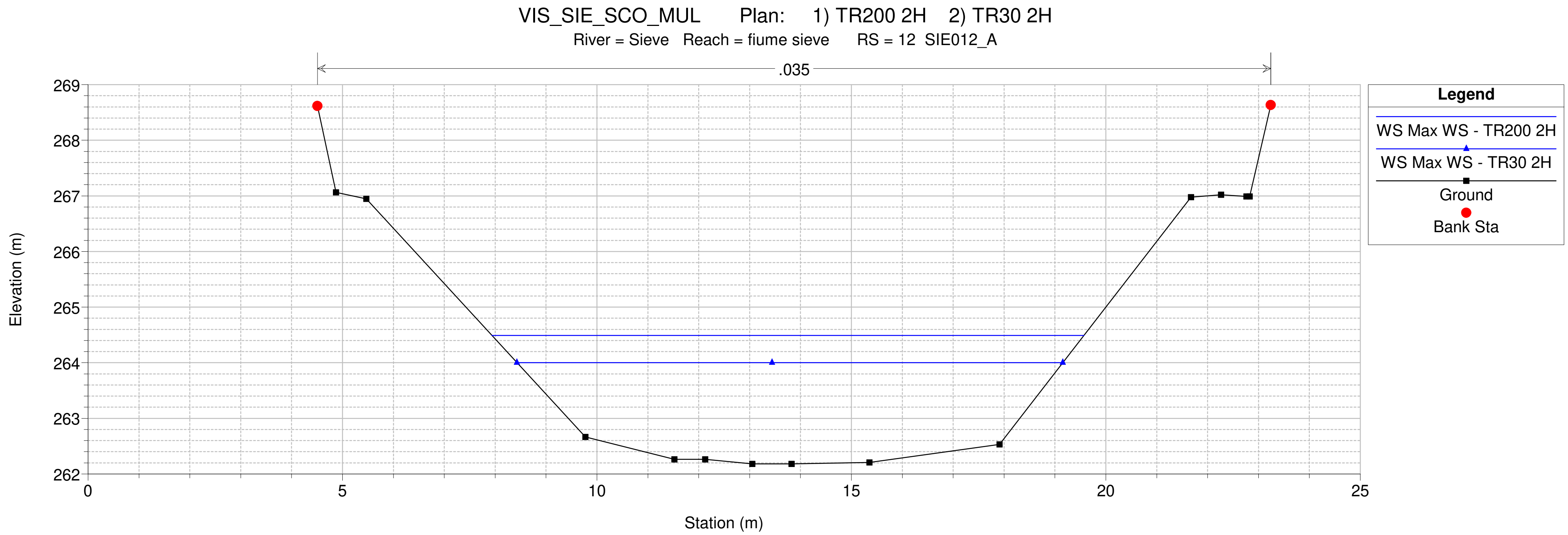
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 12.15 IS
.035
Elevation (m)
268.0
267.5
267.0
266.5
266.0
265.5
265.0
264.5
264.0
10
15
20
25
30
35
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

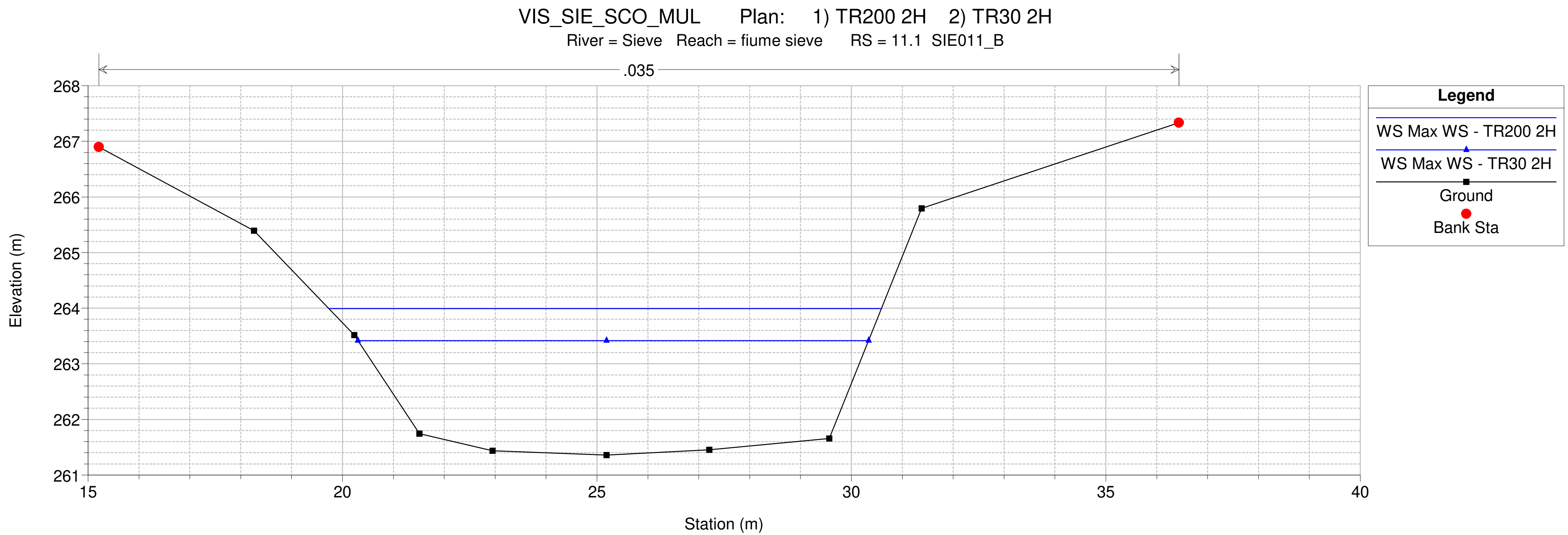


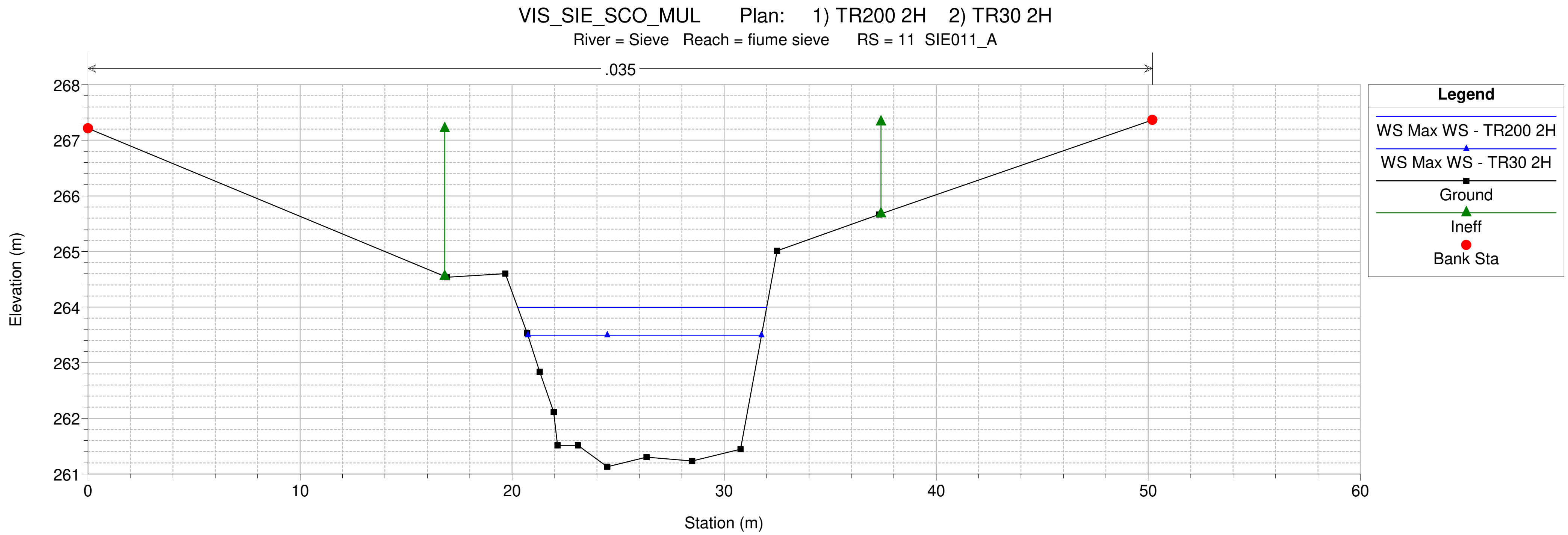
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 12.1 SIE012_B
.035
Elevation (m)
268
267
266
265
264
263
262
261
10
15
20
25
30
35
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

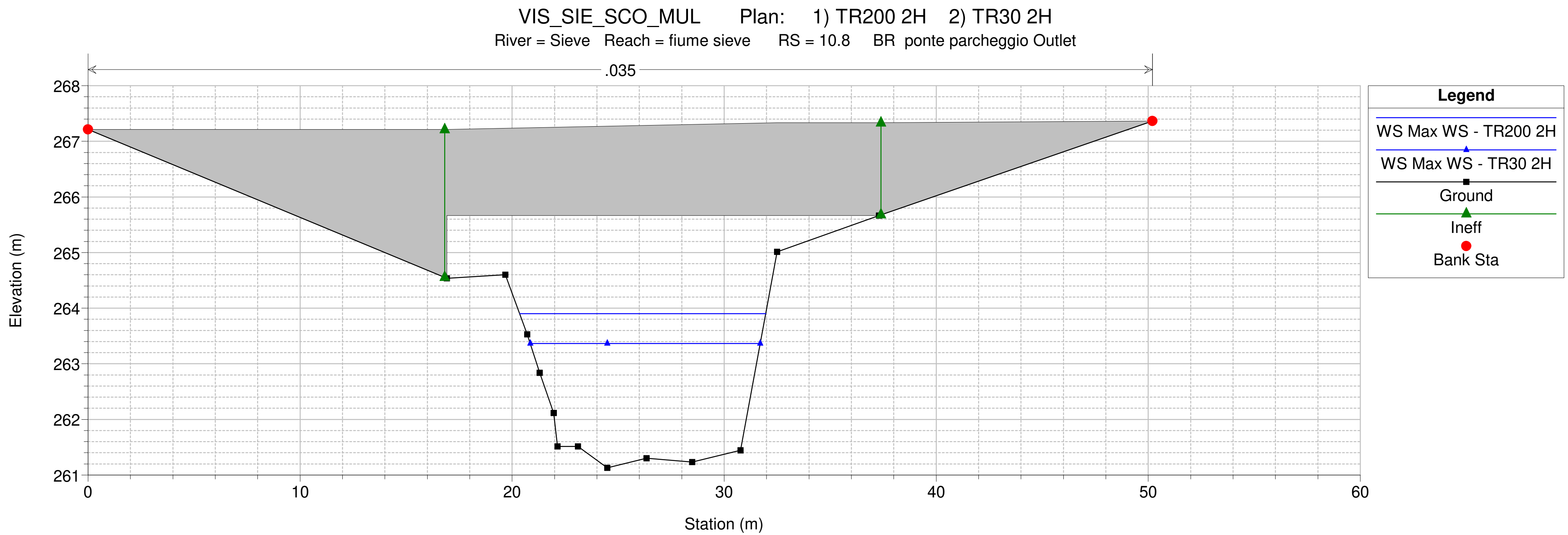

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 12.05 SIE012_A1
.035
Elevation (m)
269
268
267
266
265
264
263
262
0
5
10
15
20
25
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

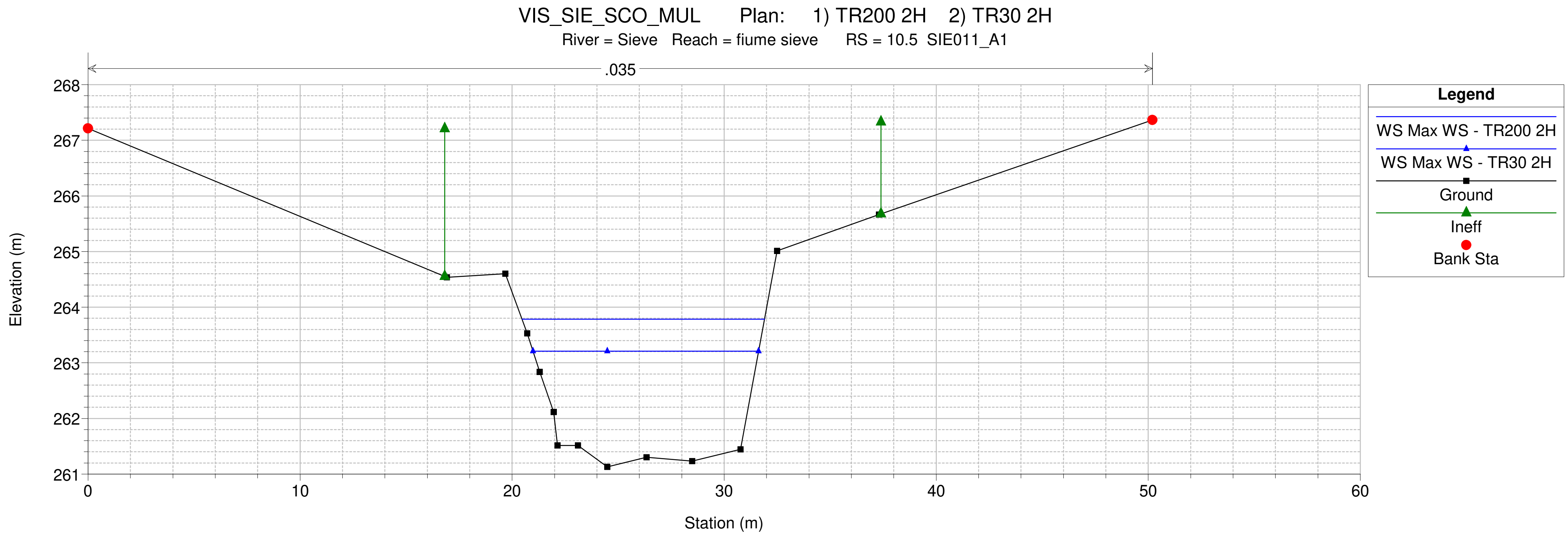

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 12.03 BR I° PASSERELLA INGRESSO OUTLET
.035
Elevation (m)
269
268
267
266
265
264
263
262
0
5
10
15
20
25
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

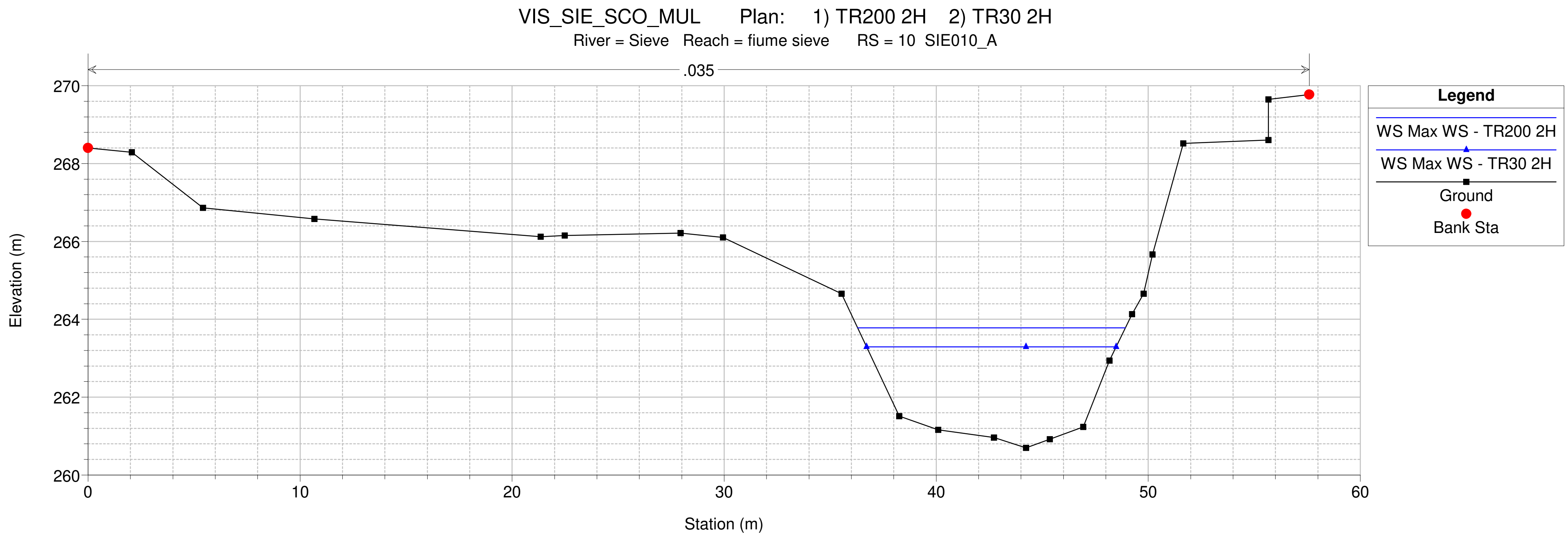

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 12 SIE012_A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

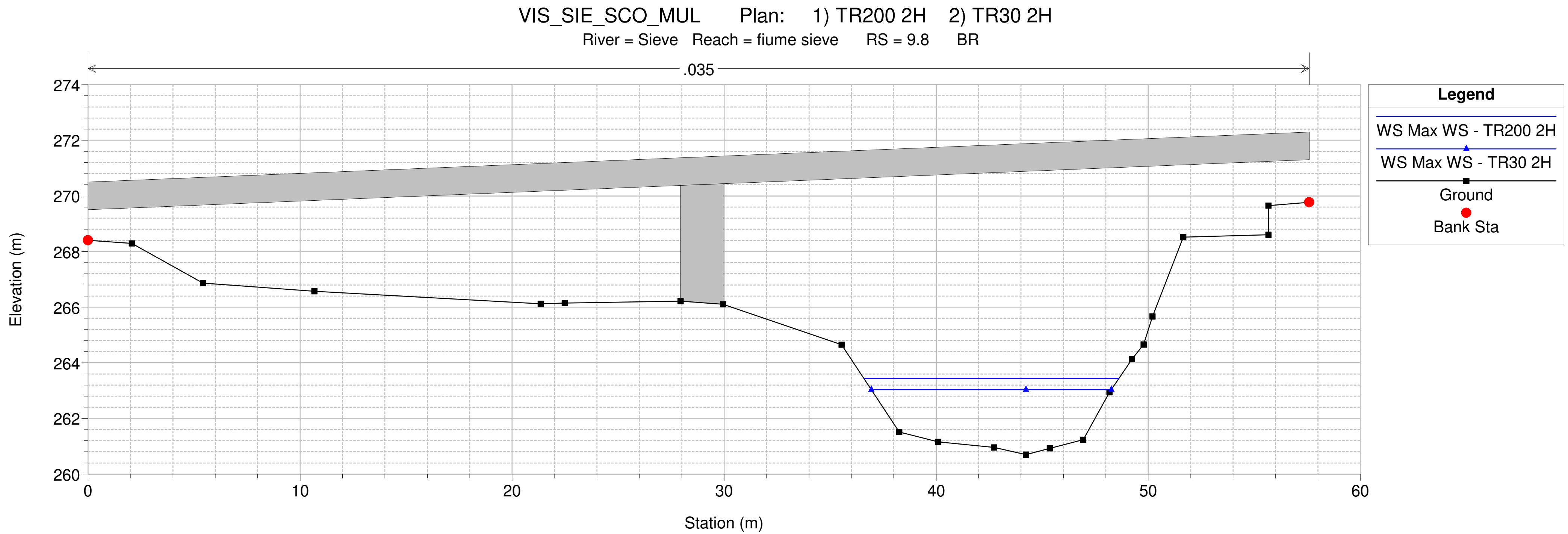

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 11.1 SIE011_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

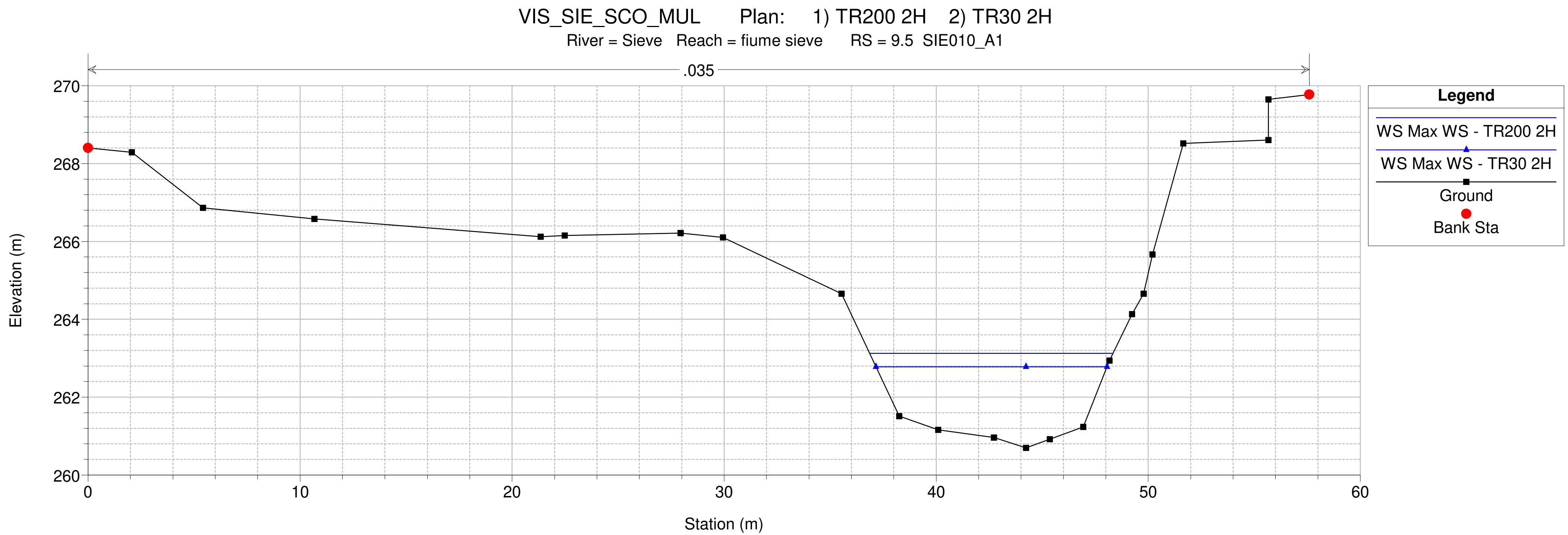

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 11 SIE011_A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

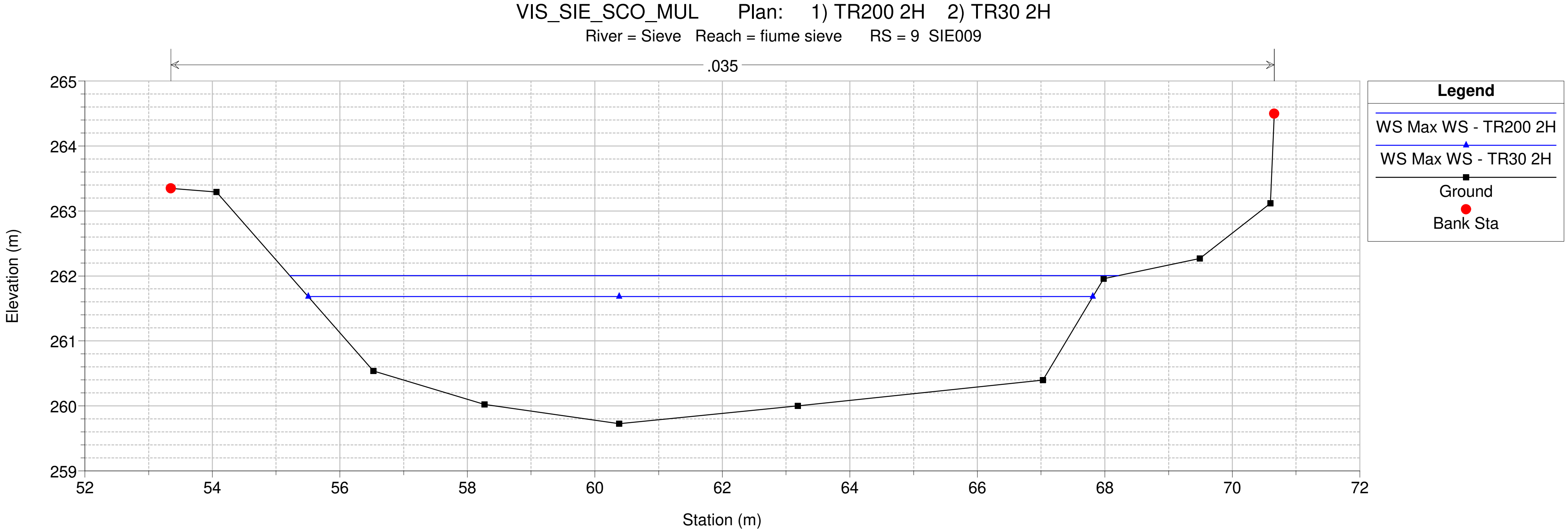

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 10.8 BR ponte parcheggio Outlet
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 10.5 SIE011_A1
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

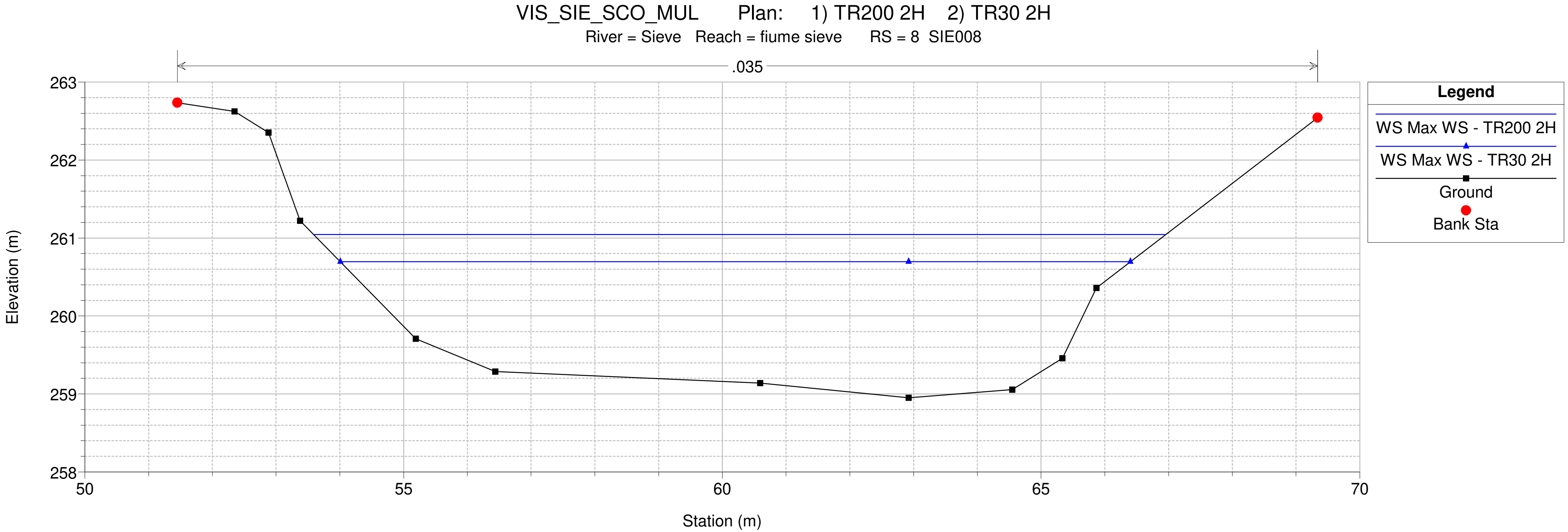

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 10 SIE010_A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 9.8 BR
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
274
272
270
268
266
264
262
260
0
10
20
30
40
50
60

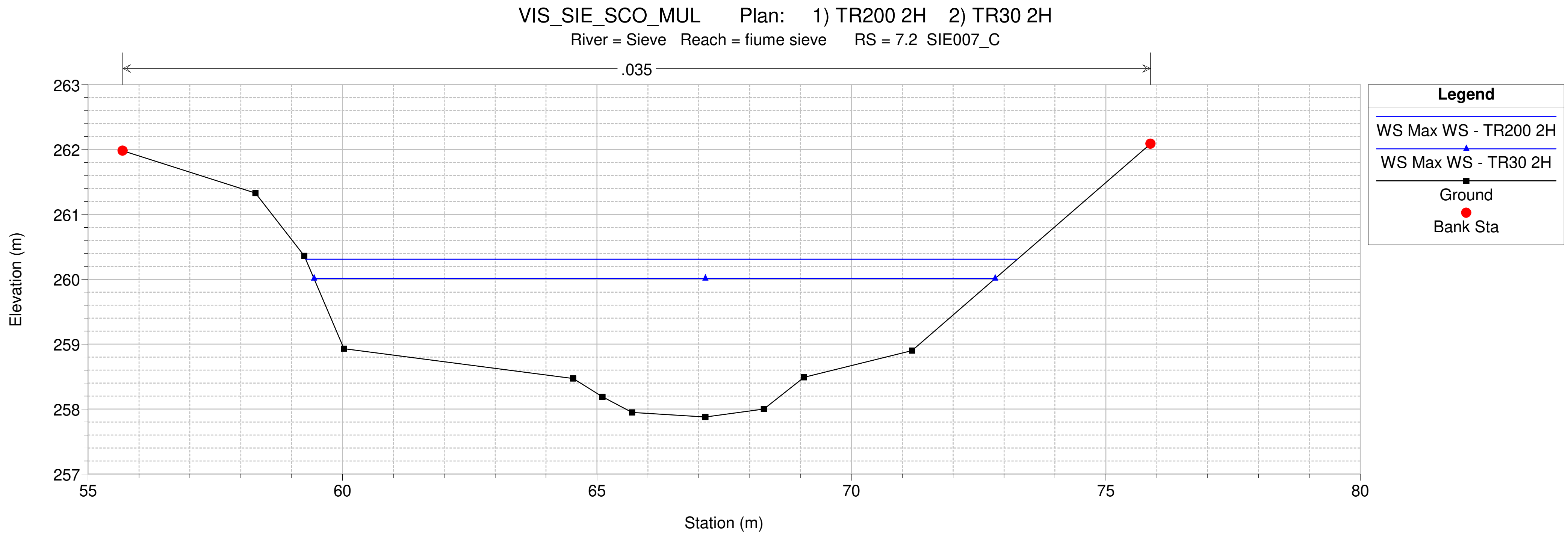

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 9.5 SIE010_A1
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
270
268
266
264
262
260
0
10
20
30
40
50
60

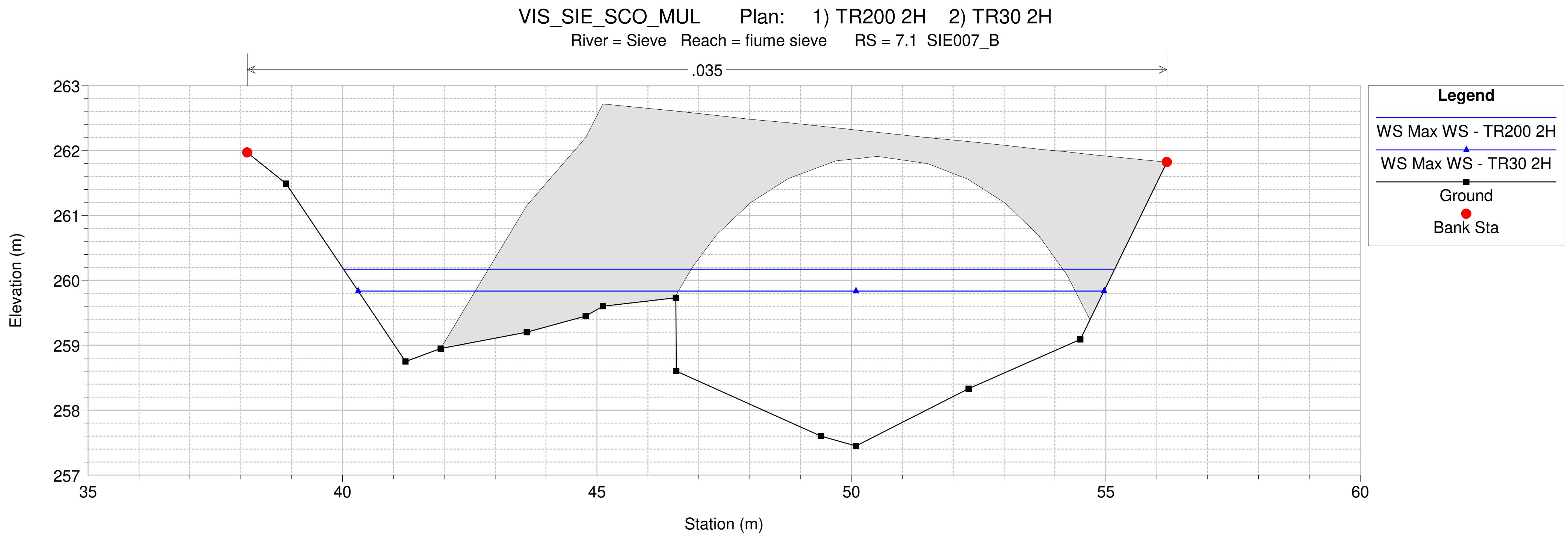


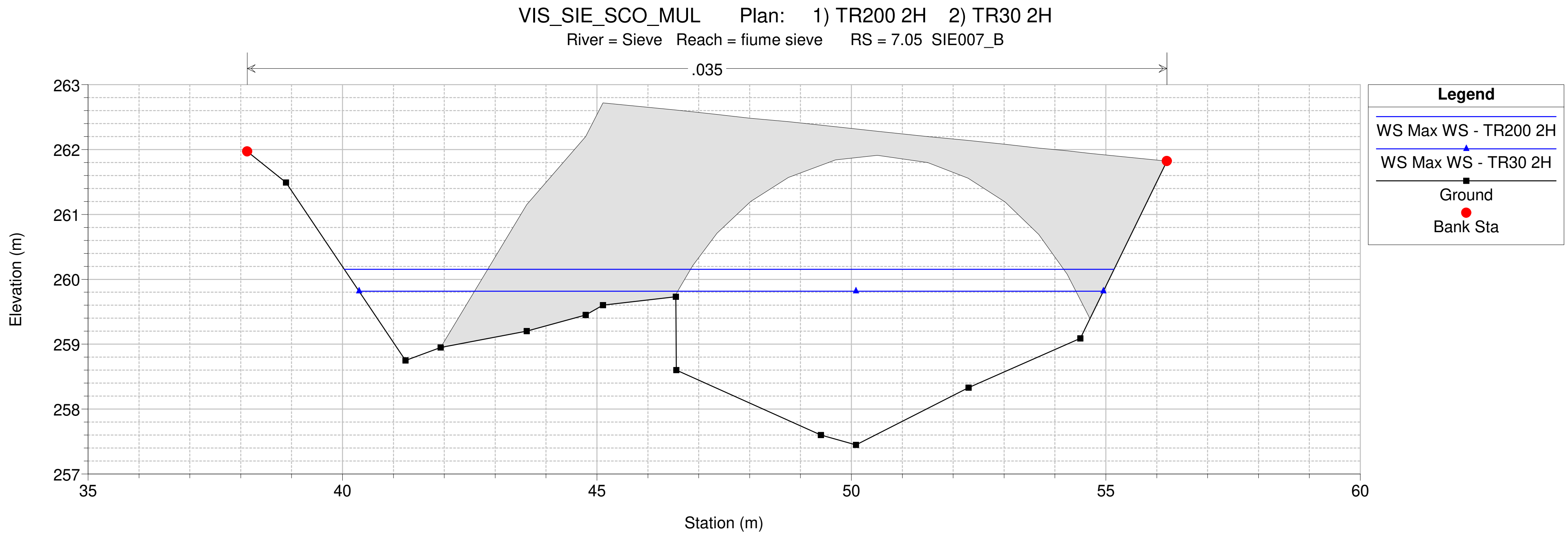
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 9 SIE009
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265
264
263
262
261
260
259
52
54
56
58
60
62
64
66
68
70
72



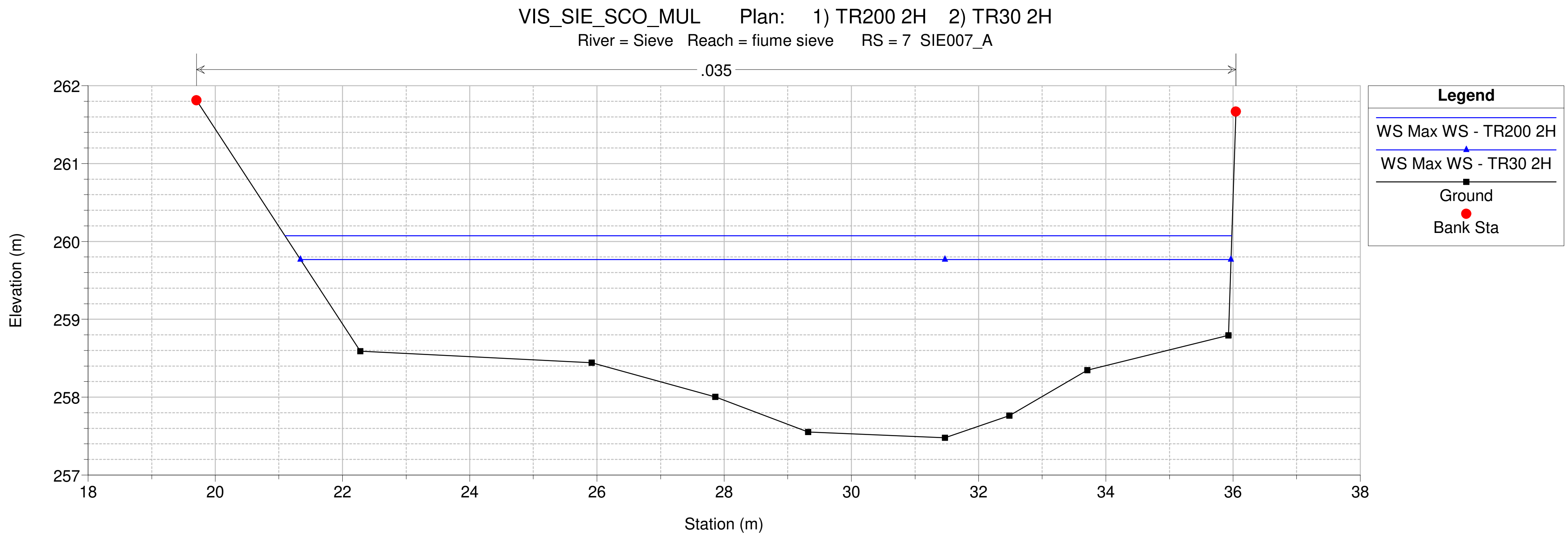
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 8 SIE008
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
263
262
261
260
259
258
50
55
60
65
70


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 7.2 SIE007_C
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
263
262
261
260
259
258
257
55
60
65
70
75
80

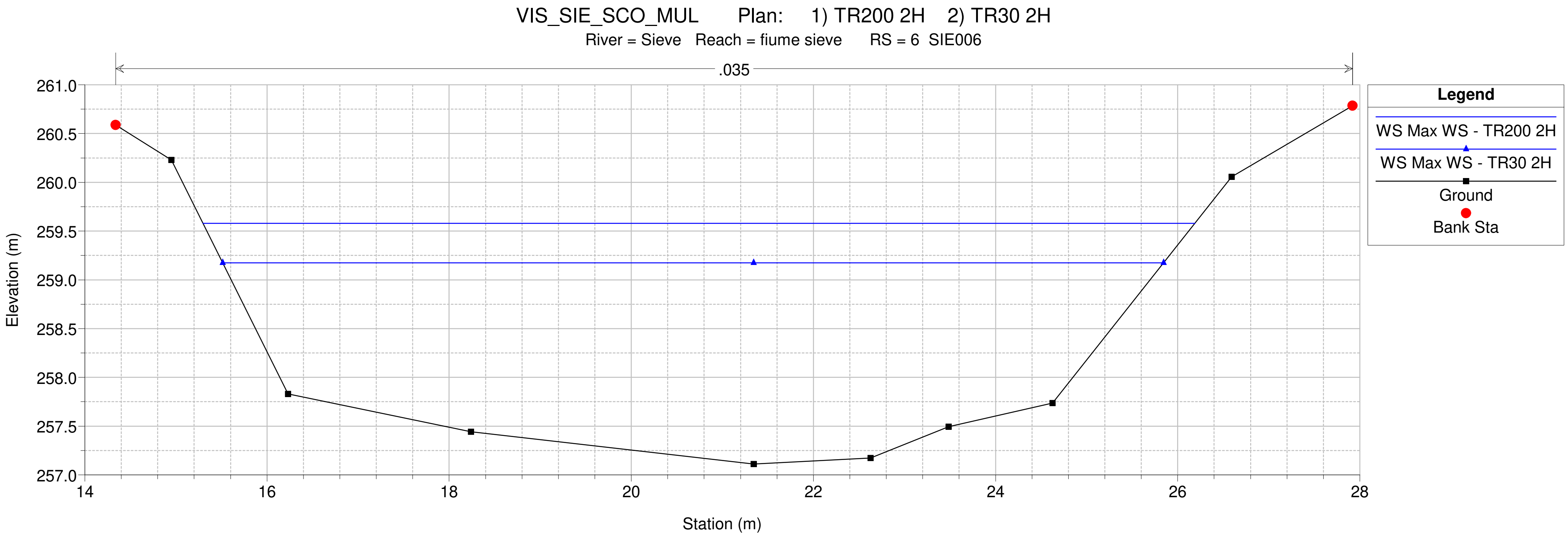

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 7.1 SIE007_B
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
263
262
261
260
259
258
257
35
40
45
50
55
60



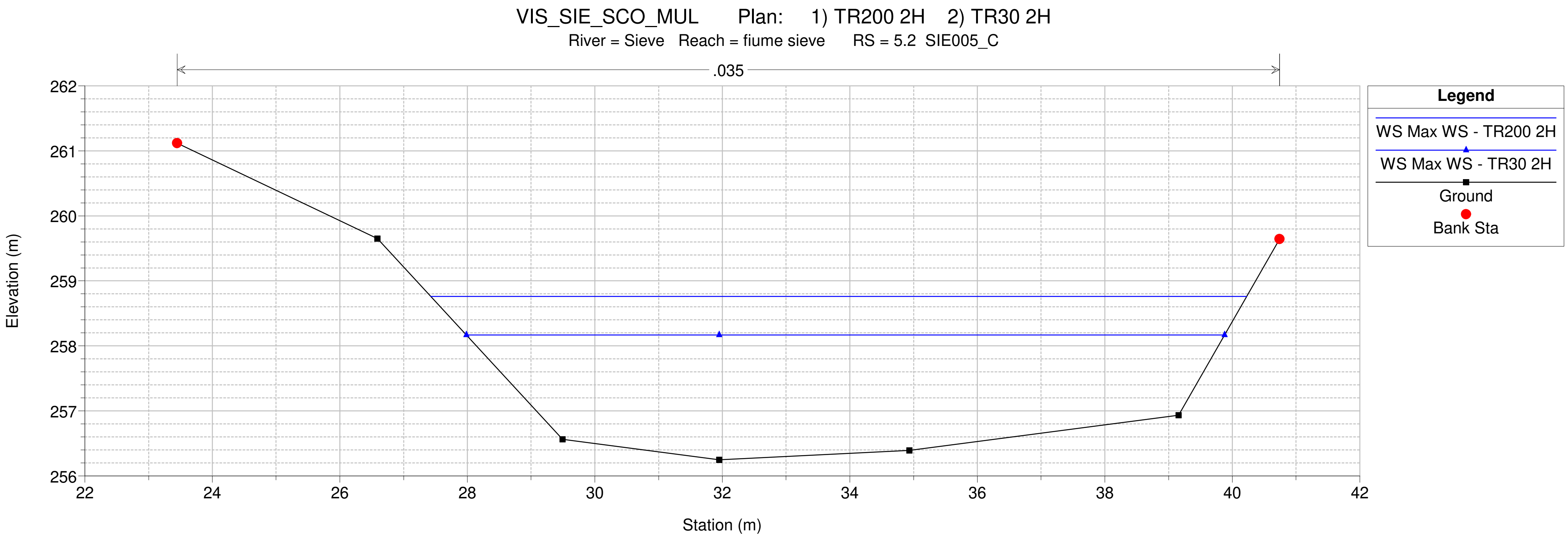
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 7.05 SIE007_B
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)



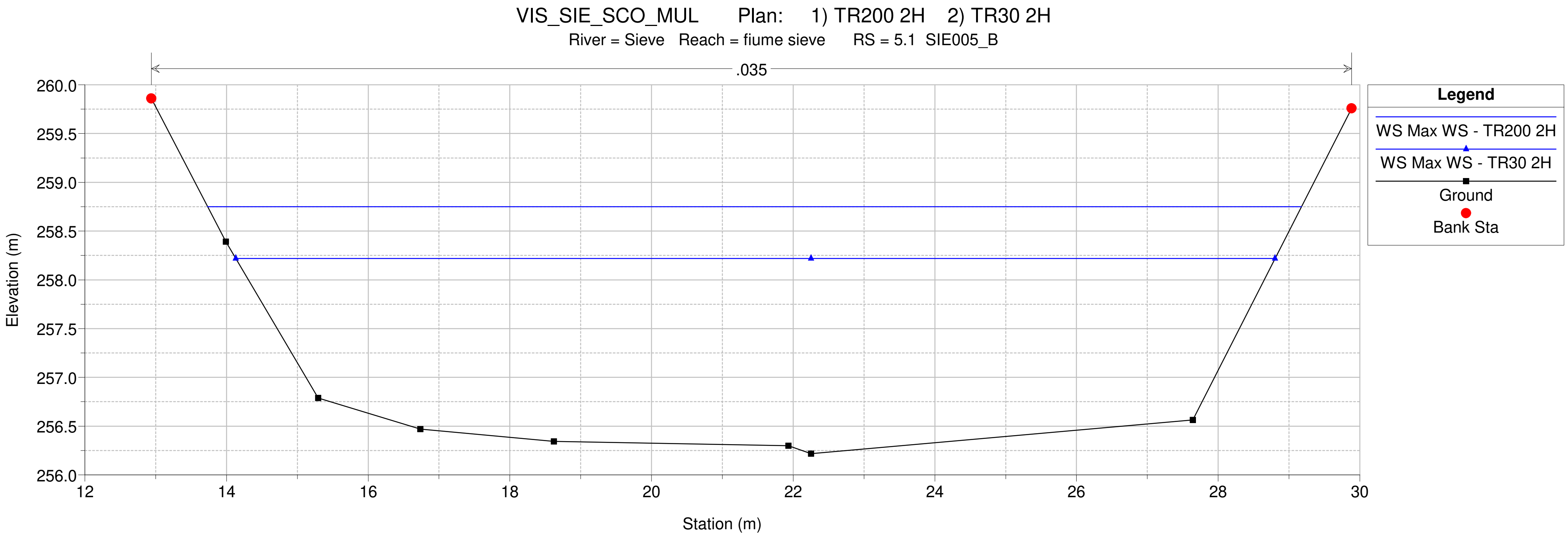
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 7 SIE007_A
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)

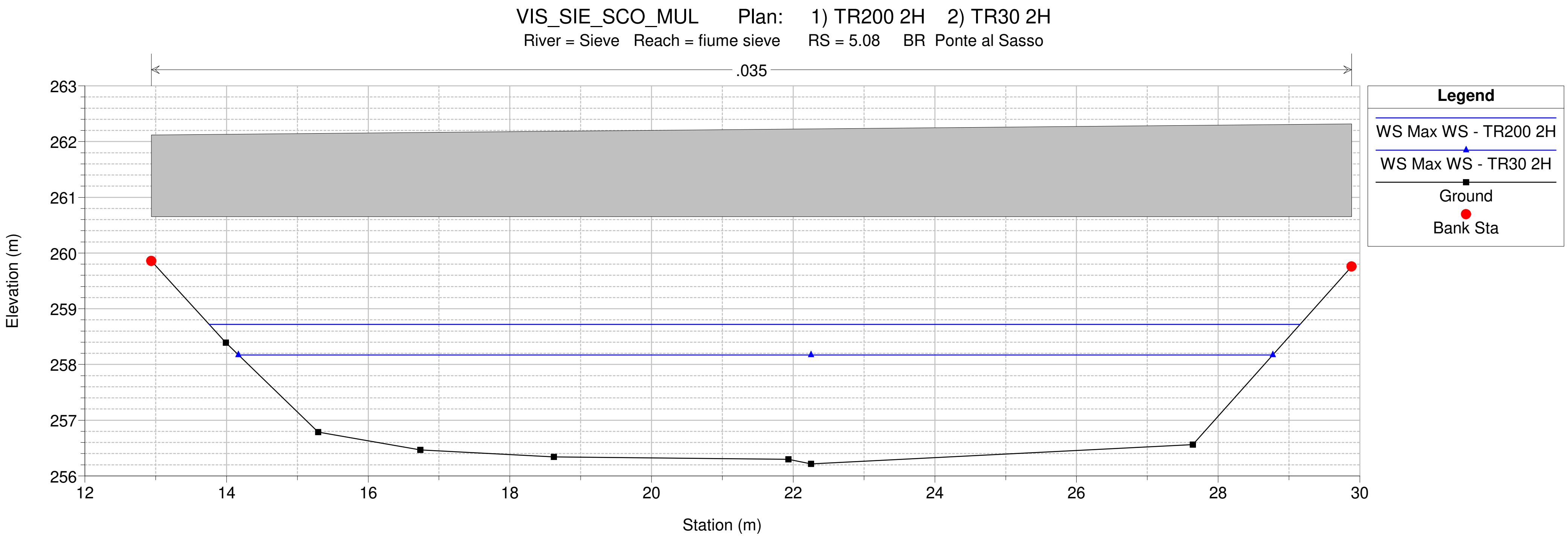


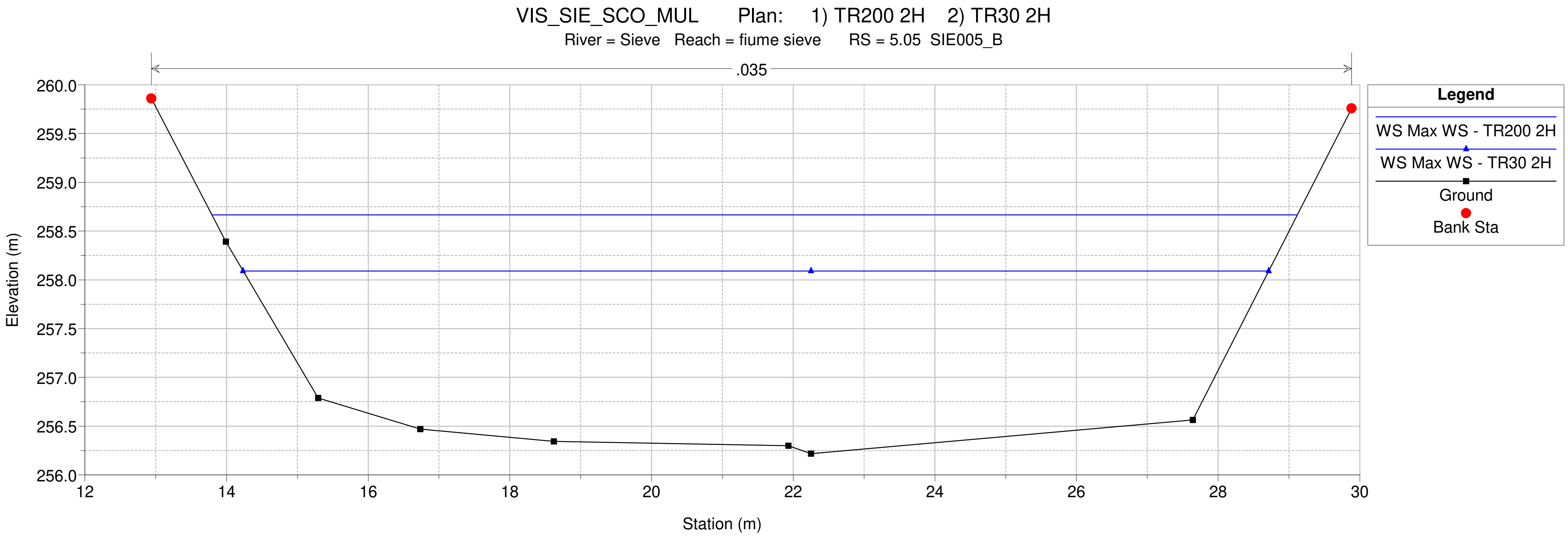
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 6 SIE006
.035
Elevation (m)
261.0
260.5
260.0
259.5
259.0
258.5
258.0
257.5
257.0
14
16
18
20
22
24
26
28
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

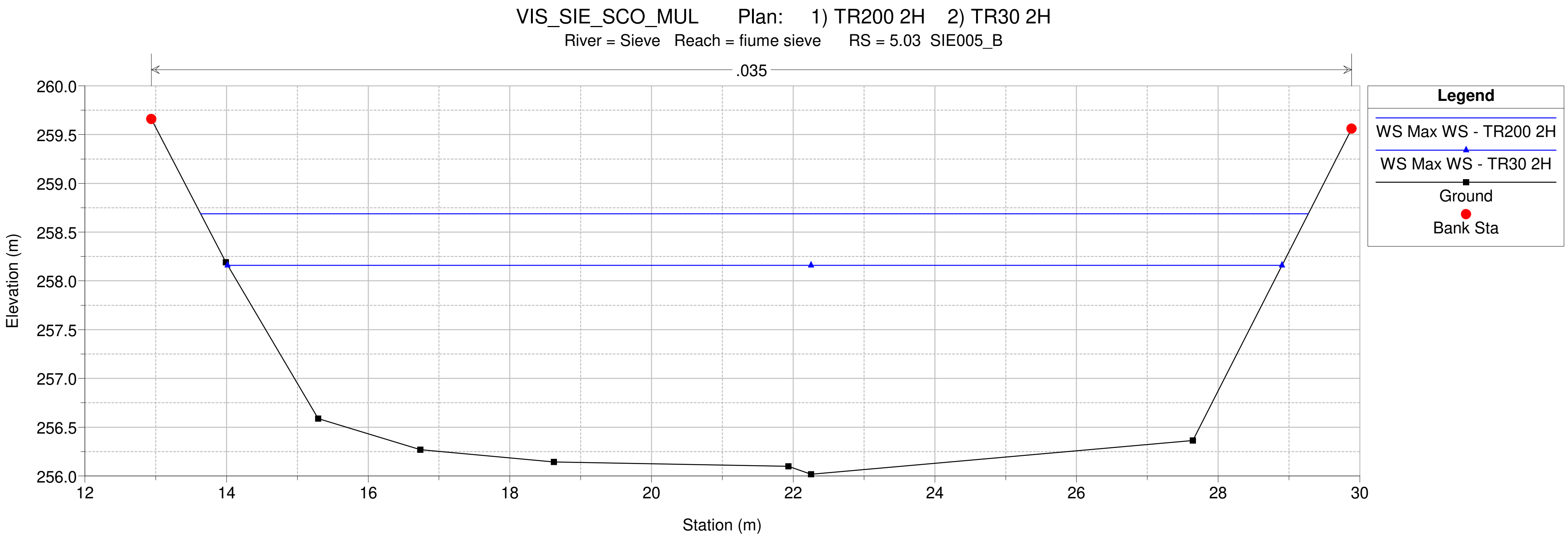


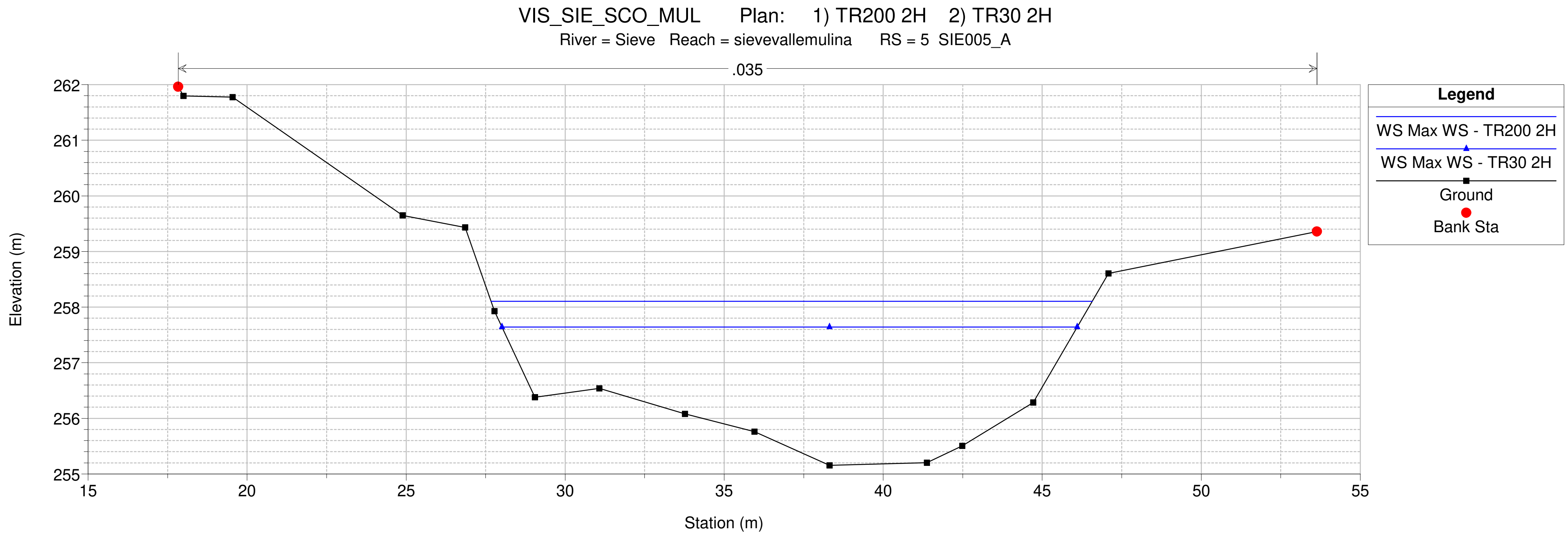
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 5.2 SIE005_C
.035
Elevation (m)
262
261
260
259
258
257
256
22
24
26
28
30
32
34
36
38
40
42
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

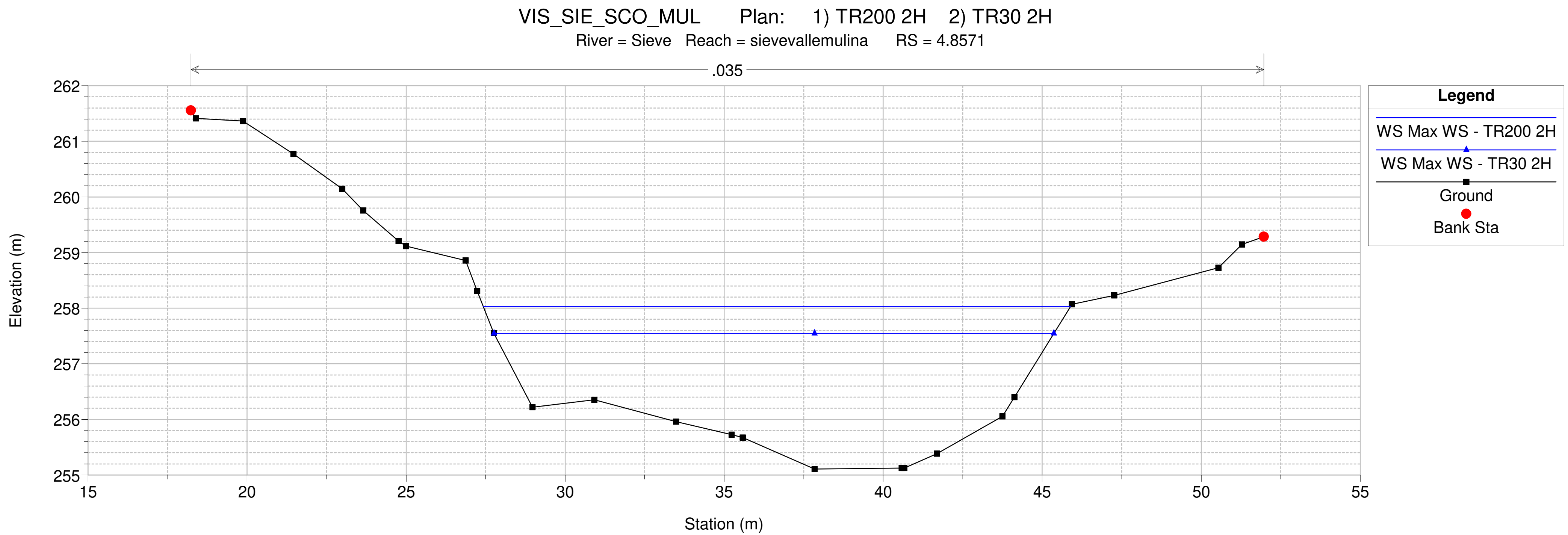

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 5.1 SIE005_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

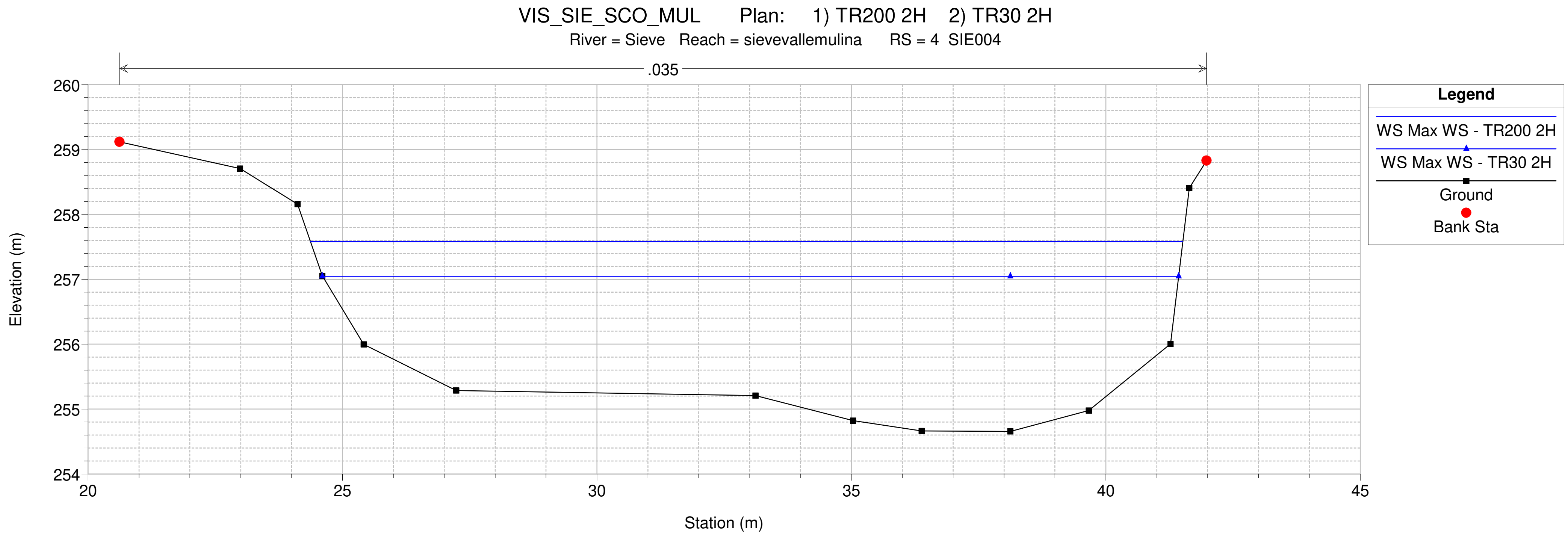

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 5.08 BR Ponte al Sasso
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

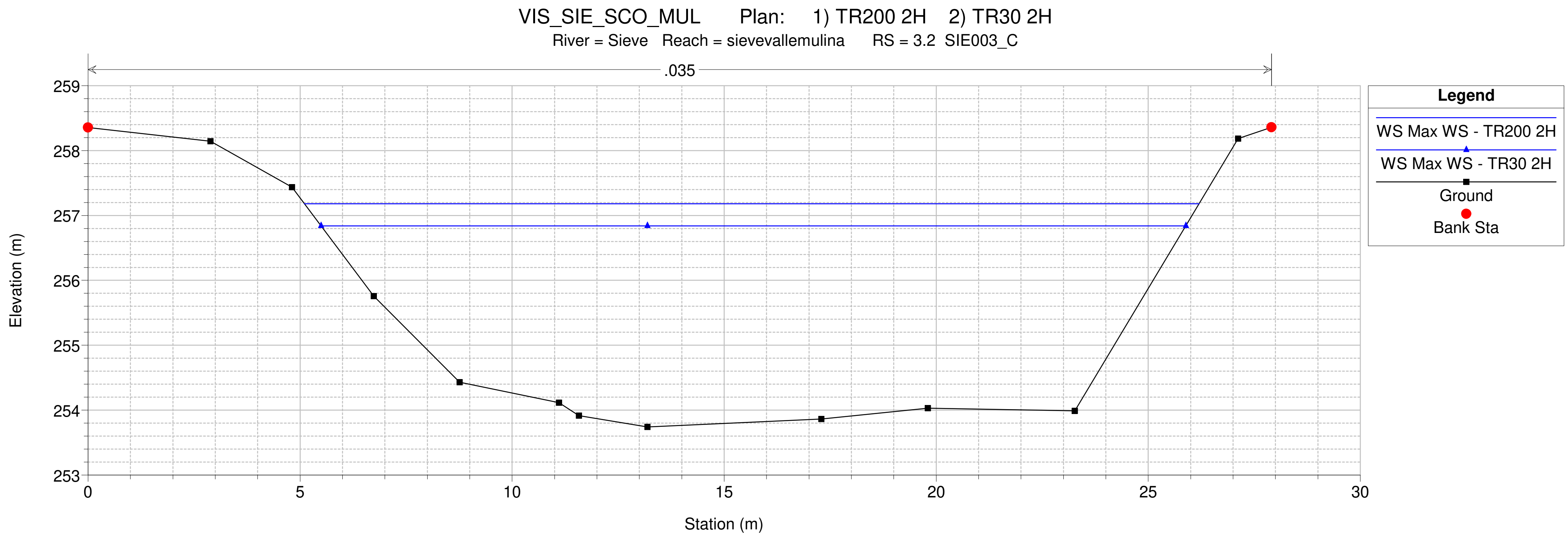

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 5.05 SIE005_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

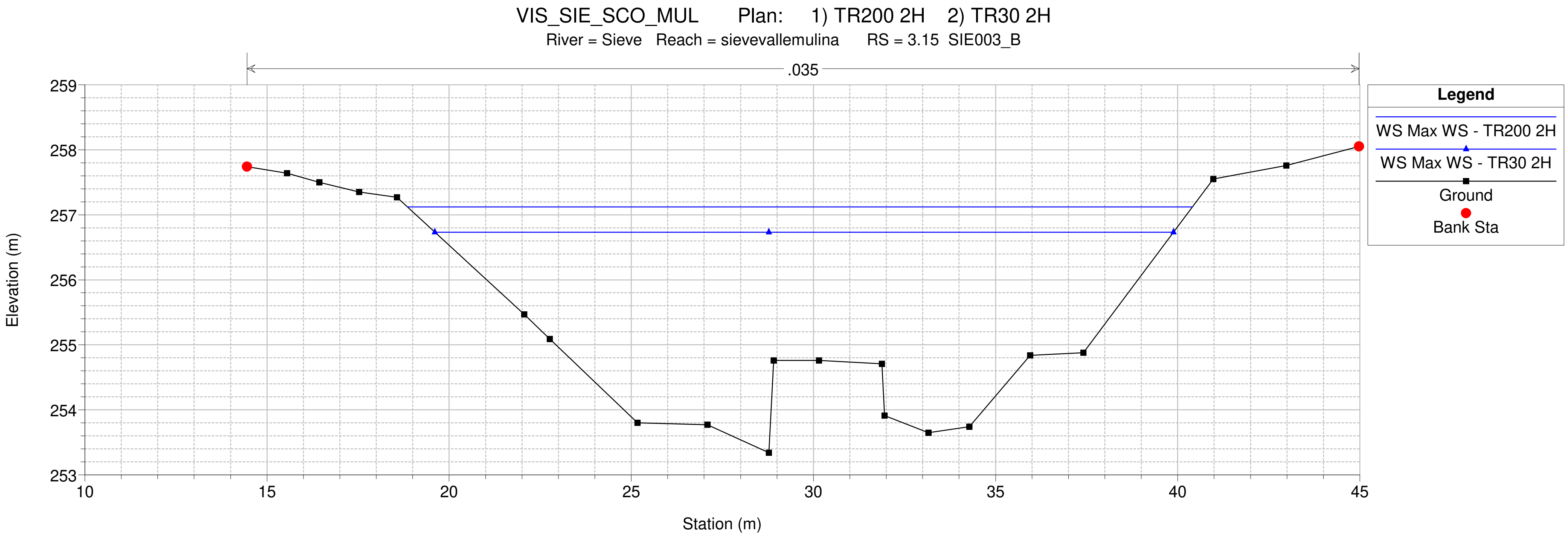

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = fiume sieve RS = 5.03 SIE005_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 5 SIE005_A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

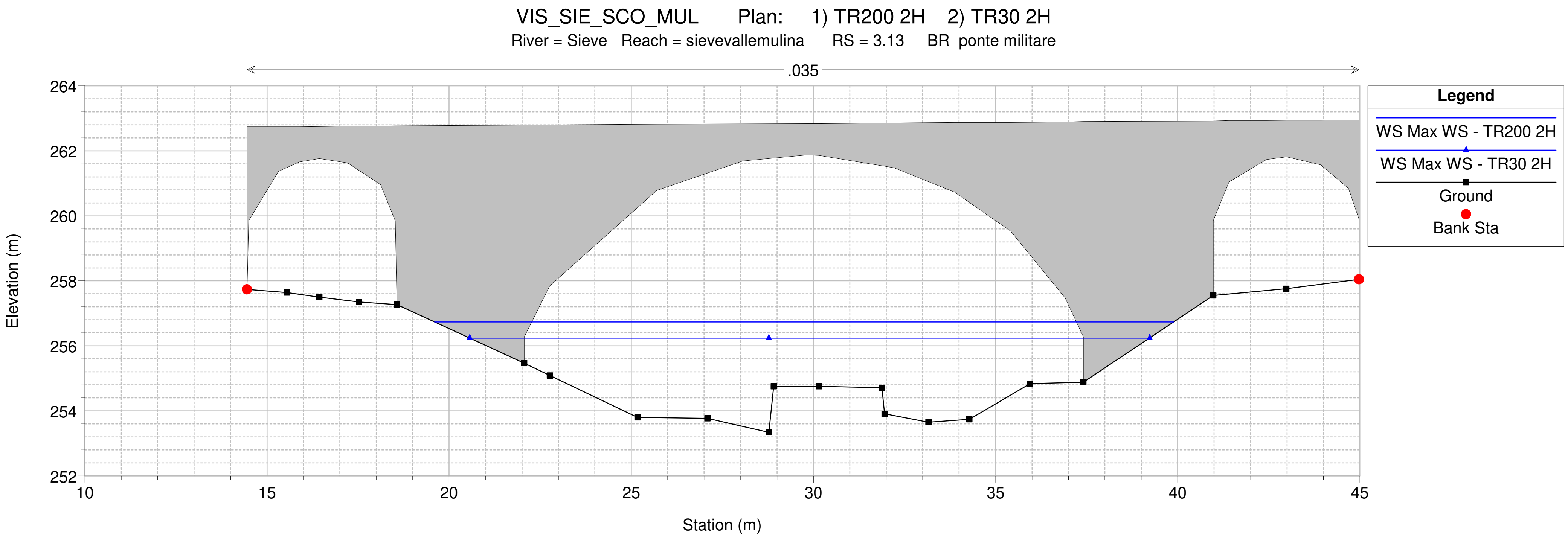

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 4.8571
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 4 SIE004
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

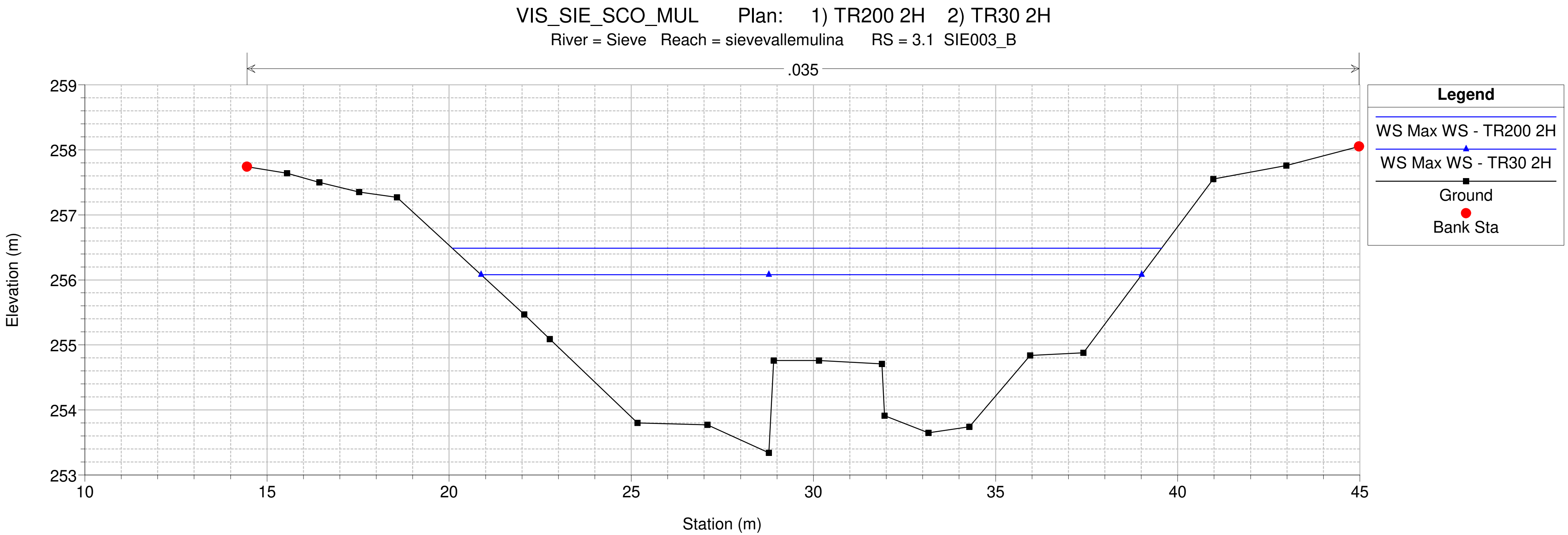

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 3.2 SIE003_C
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta



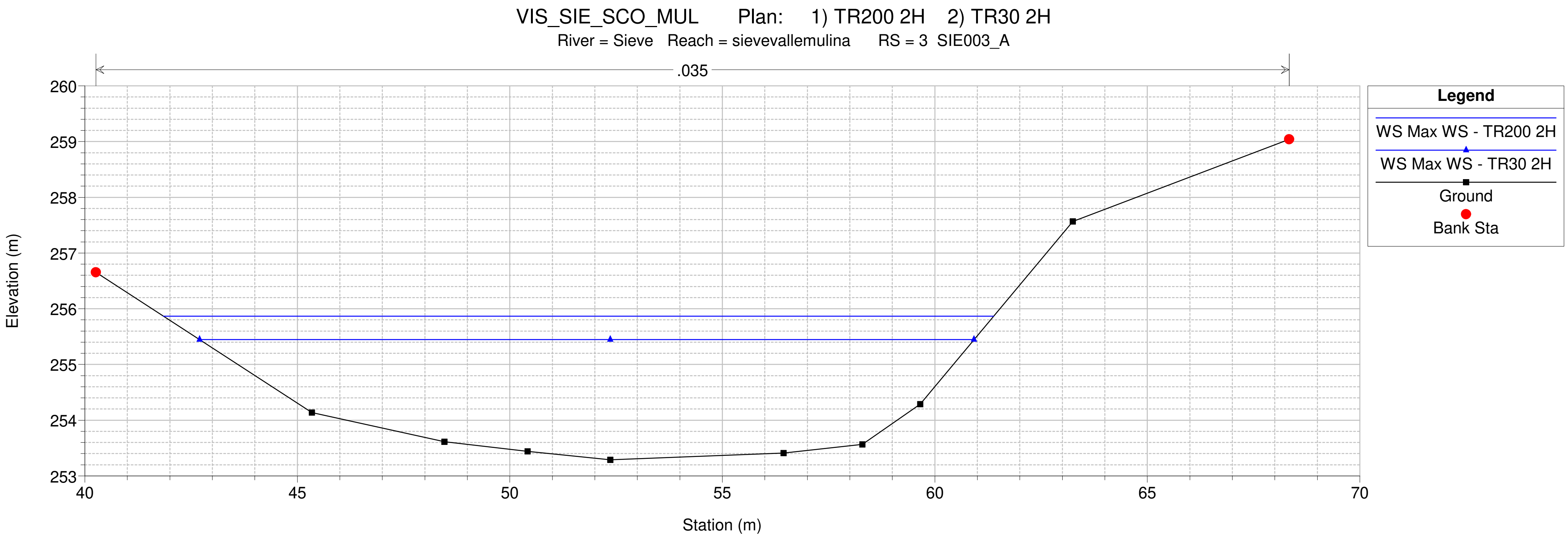
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 3.15 SIE003_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta



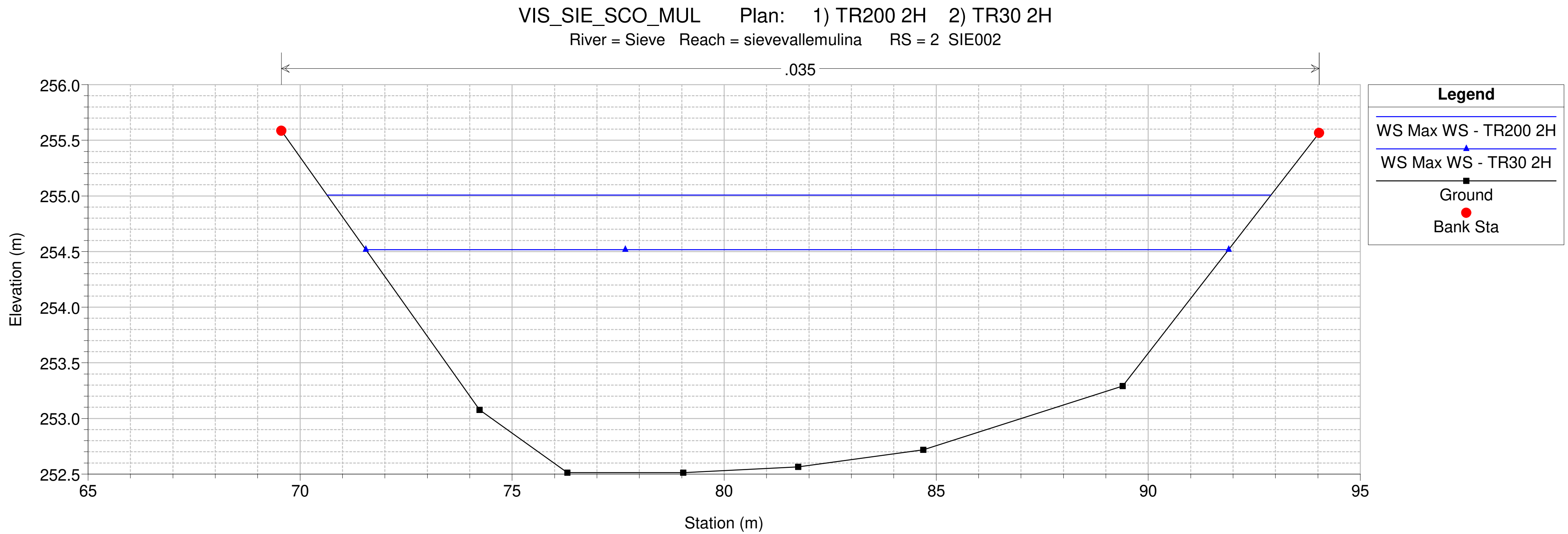
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 3.13 BR ponte militare
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

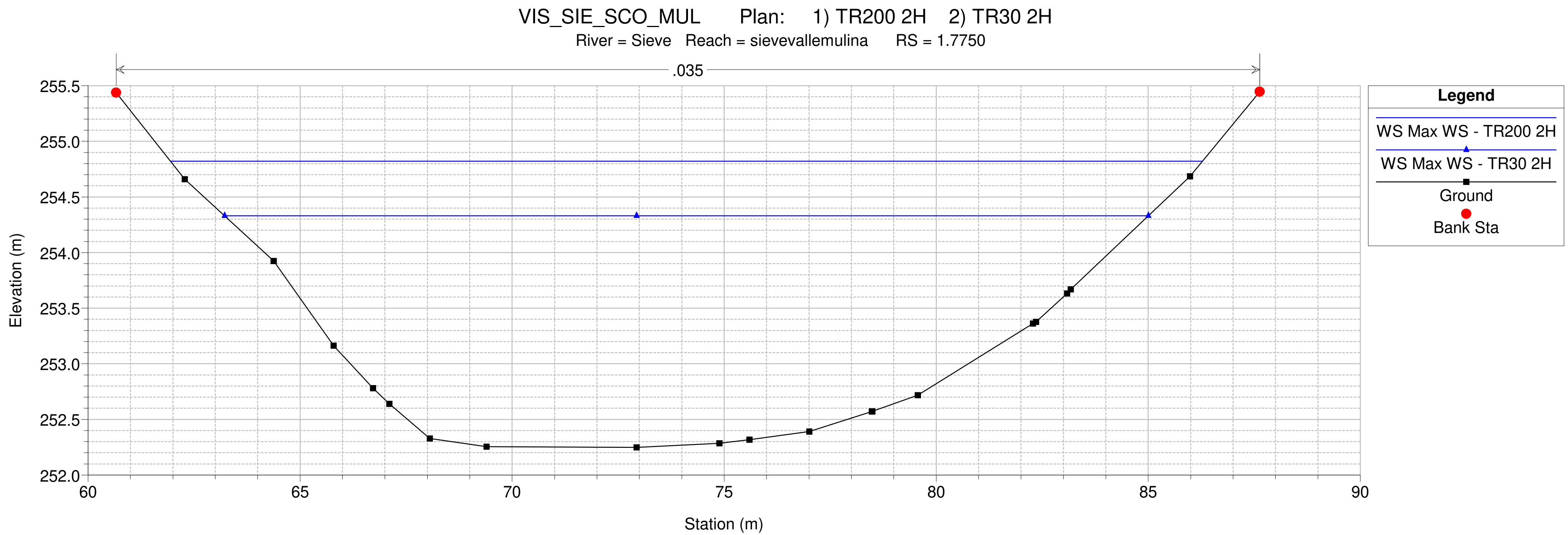


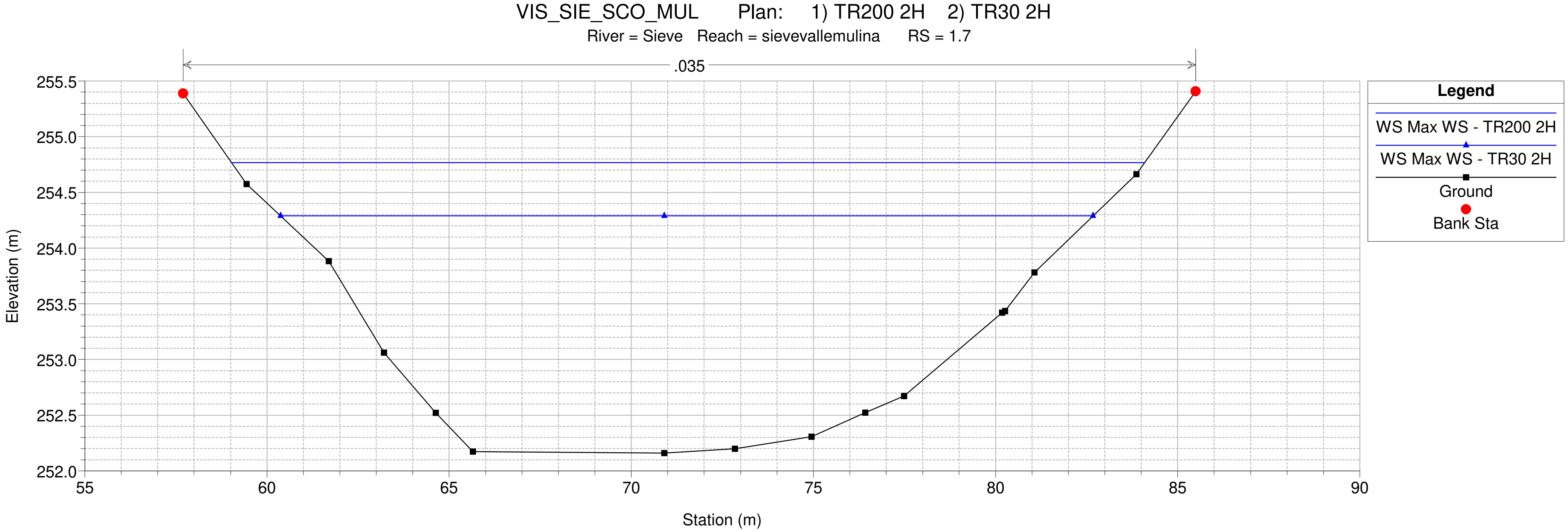
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 3.1 SIE003_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

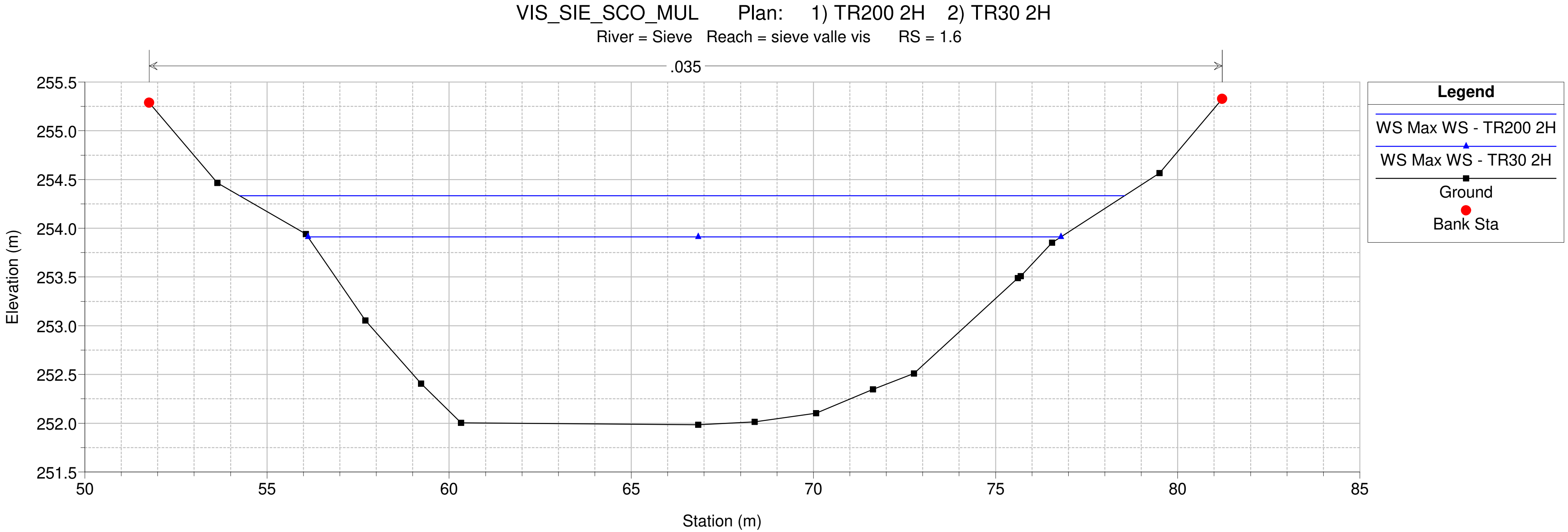


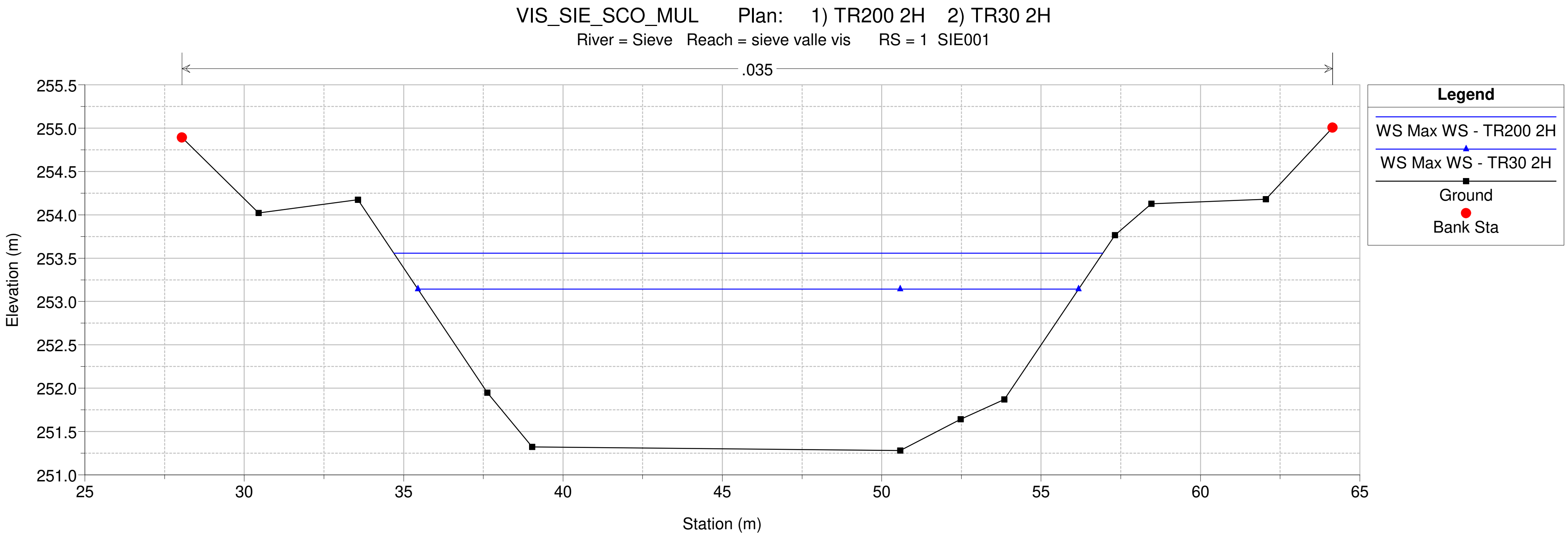
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 3 SIE003_A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 2 SIE002
.035
Elevation (m)
Station (m)
256.0
255.5
255.0
254.5
254.0
253.5
253.0
252.5
65
70
75
80
85
90
95
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 1.7750
.035
Elevation (m)
Station (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
252.0
60
65
70
75
80
85
90
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sievevallemulina RS = 1.7
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sieve valle vis RS = 1.6
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta



VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = Sieve Reach = sieve valle vis RS = 1 SIE001
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
252.0
251.5
251.0
25
30
35
40
45
50
55
60
65
Station (m)

HEC-RAS Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
fiume sieve	21	Max WS	TR200 2H	72.91	272.12	274.15	273.73	274.46	0.004724	2.46	29.62	19.36	0.64
fiume sieve	21	Max WS	TR200 1H	71.32	272.12	274.11	273.71	274.42	0.004890	2.47	28.87	19.30	0.64
fiume sieve	21	Max WS	TR30 2H	50.49	272.12	273.78	273.47	274.04	0.005199	2.23	22.64	18.71	0.65
fiume sieve	21	Max WS	TR30 1H	49.02	272.12	273.76	273.43	274.01	0.005226	2.21	22.17	18.66	0.65
fiume sieve	20.15	Max WS	TR200 2H	72.91	271.72	274.03	273.33	274.25	0.002676	2.11	34.57	19.84	0.50
fiume sieve	20.15	Max WS	TR200 1H	71.32	271.72	274.03	273.31	274.24	0.002556	2.06	34.59	19.84	0.49
fiume sieve	20.15	Max WS	TR30 2H	50.49	271.72	273.68	273.06	273.85	0.002486	1.80	28.04	19.24	0.47
fiume sieve	20.15	Max WS	TR30 1H	49.02	271.72	273.66	273.03	273.82	0.002481	1.78	27.54	19.20	0.47
fiume sieve	20.13			Bridge									
fiume sieve	20.11	Max WS	TR200 2H	72.91	271.72	273.73	273.33	274.05	0.004704	2.52	28.92	19.33	0.65
fiume sieve	20.11	Max WS	TR200 1H	71.32	271.72	273.80	273.31	274.09	0.003862	2.35	30.35	19.46	0.59
fiume sieve	20.11	Max WS	TR30 2H	50.49	271.72	273.47	273.06	273.69	0.004055	2.10	24.04	18.86	0.59
fiume sieve	20.11	Max WS	TR30 1H	49.02	271.72	273.44	273.03	273.66	0.004093	2.08	23.53	18.81	0.59
fiume sieve	20.109			Lat Struct									
fiume sieve	20.108			Lat Struct									
fiume sieve	20.1	Max WS	TR200 2H	73.16	271.37	273.31	272.96	273.65	0.005509	2.58	28.39	19.56	0.68
fiume sieve	20.1	Max WS	TR200 1H	71.60	271.37	273.32	272.95	273.64	0.005136	2.50	28.64	19.59	0.66
fiume sieve	20.1	Max WS	TR30 2H	50.68	271.37	273.01	272.69	273.26	0.005356	2.24	22.60	19.02	0.66
fiume sieve	20.1	Max WS	TR30 1H	49.21	271.37	272.99	272.67	273.24	0.005259	2.21	22.31	18.99	0.65
fiume sieve	20	Max WS	TR200 2H	73.22	270.85	273.17	273.17	273.98	0.011851	3.99	18.36	11.29	1.00
fiume sieve	20	Max WS	TR200 1H	71.67	270.85	273.13	273.14	273.94	0.012007	3.98	18.00	11.23	1.00
fiume sieve	20	Max WS	TR30 2H	50.72	270.85	272.79	272.76	273.44	0.011658	3.55	14.30	10.56	0.97
fiume sieve	20	Max WS	TR30 1H	49.26	270.85	272.77	272.74	273.40	0.011618	3.51	14.03	10.51	0.97
fiume sieve	19	Max WS	TR200 2H	73.41	270.48	272.68	272.75	273.59	0.014029	4.21	17.42	10.87	1.06
fiume sieve	19	Max WS	TR200 1H	71.87	270.48	272.64	272.73	273.56	0.014545	4.24	16.96	10.80	1.08
fiume sieve	19	Max WS	TR30 2H	50.86	270.48	272.31	272.36	273.04	0.014325	3.78	13.47	10.32	1.06
fiume sieve	19	Max WS	TR30 1H	49.40	270.48	272.29	272.34	273.00	0.014300	3.74	13.22	10.28	1.05
fiume sieve	18.1	Max WS	TR200 2H	73.99	268.30	271.58	270.23	271.82	0.002176	2.19	33.83	12.34	0.42
fiume sieve	18.1	Max WS	TR200 1H	72.53	268.30	271.55	270.21	271.79	0.002147	2.16	33.51	12.31	0.42
fiume sieve	18.1	Max WS	TR30 2H	51.31	268.30	271.14	269.84	271.31	0.001693	1.80	28.55	11.87	0.37
fiume sieve	18.1	Max WS	TR30 1H	49.87	268.30	271.11	269.81	271.27	0.001658	1.77	28.18	11.83	0.37
fiume sieve	18.05			Inl Struct									
fiume sieve	18	Max WS	TR200 2H	73.99	268.25	271.00	270.59	271.54	0.006671	3.26	22.71	11.44	0.74
fiume sieve	18	Max WS	TR200 1H	72.53	268.25	271.03	270.56	271.53	0.006064	3.13	23.16	11.51	0.70
fiume sieve	18	Max WS	TR30 2H	51.31	268.25	270.63	270.18	271.01	0.005650	2.76	18.61	10.79	0.67
fiume sieve	18	Max WS	TR30 1H	49.87	268.25	270.60	270.15	270.98	0.005609	2.73	18.28	10.74	0.67
fiume sieve	17.99			Lat Struct									
fiume sieve	17.98			Lat Struct									
fiume sieve	17.1	Max WS	TR200 2H	74.38	267.56	270.34	269.97	270.89	0.006871	3.29	22.58	11.61	0.75
fiume sieve	17.1	Max WS	TR200 1H	72.96	267.56	270.33	269.95	270.87	0.006683	3.24	22.49	11.60	0.74
fiume sieve	17.1	Max WS	TR30 2H	51.60	267.56	269.92	269.58	270.35	0.006539	2.90	17.81	10.94	0.73
fiume sieve	17.1	Max WS	TR30 1H	50.17	267.56	269.89	269.55	270.31	0.006517	2.87	17.48	10.89	0.72
fiume sieve	17.05	Max WS	TR200 2H	74.41	267.66	270.29	269.96	270.86	0.007383	3.36	22.15	11.56	0.77
fiume sieve	17.05	Max WS	TR200 1H	73.00	267.66	270.26	269.93	270.83	0.007376	3.34	21.86	11.52	0.77
fiume sieve	17.05	Max WS	TR30 2H	51.62	267.66	269.85	269.56	270.31	0.007314	2.99	17.24	10.84	0.76
fiume sieve	17.05	Max WS	TR30 1H	50.19	267.66	269.82	269.53	270.27	0.007296	2.97	16.92	10.79	0.76
fiume sieve	17.03			Bridge									
fiume sieve	17	Max WS	TR200 2H	74.41	267.66	269.97	269.96	270.79	0.012275	4.01	18.56	11.04	0.99
fiume sieve	17	Max WS	TR200 1H	73.00	267.66	269.84	269.93	270.77	0.014895	4.26	17.13	10.82	1.08
fiume sieve	17	Max WS	TR30 2H	51.54	267.66	269.49	269.56	270.24	0.015094	3.83	13.44	10.24	1.07
fiume sieve	17	Max WS	TR30 1H	50.19	267.66	269.45	269.53	270.21	0.015589	3.84	13.06	10.18	1.08
fiume sieve	16.99			Lat Struct									
fiume sieve	16.98			Lat Struct									
fiume sieve	16.1	Max WS	TR200 2H	74.81	266.44	269.47	268.57	269.80	0.003214	2.54	29.49	12.57	0.53
fiume sieve	16.1	Max WS	TR200 1H	65.21	266.44	269.25	268.41	269.55	0.003226	2.44	26.74	12.29	0.53
fiume sieve	16.1	Max WS	TR30 2H	47.10	266.44	268.92	268.08	269.14	0.002646	2.06	22.83	11.89	0.48
fiume sieve	16.1	Max WS	TR30 1H	47.14	266.44	268.93	268.09	269.14	0.002640	2.06	22.87	11.89	0.47
fiume sieve	16.05	Max WS	TR200 2H	74.82	266.52	269.44	268.64	269.82	0.003960	2.74	27.30	11.93	0.58
fiume sieve	16.05	Max WS	TR200 1H	64.85	266.52	269.19	268.47	269.55	0.004092	2.66	24.37	11.54	0.58
fiume sieve	16.05	Max WS	TR30 2H	49.71	266.52	268.88	268.19	269.17	0.003736	2.38	20.86	11.05	0.55
fiume sieve	16.05	Max WS	TR30 1H	47.14	266.52	268.88	268.13	269.14	0.003352	2.26	20.88	11.05	0.52
fiume sieve	16.03			Bridge									
fiume sieve	16	Max WS	TR200 2H	74.82	266.52	268.84	268.64	269.52	0.009039	3.67	20.38	10.98	0.86
fiume sieve	16	Max WS	TR200 1H	73.45	266.52	268.69	268.62	269.47	0.011025	3.91	18.77	10.75	0.95
fiume sieve	16	Max WS	TR30 2H	53.95	266.52	268.33	268.27	268.99	0.011315	3.59	15.02	10.18	0.94
fiume sieve	16	Max WS	TR30 1H	50.51	266.52	268.28	268.20	268.90	0.011034	3.49	14.47	10.10	0.93
fiume sieve	15.99			Lat Struct									

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
fiume sieve	15.98			Lat Struct									
fiume sieve	15.1	Max WS	TR200 2H	75.10	266.00	268.59	267.76	268.92	0.003588	2.57	29.27	12.67	0.54
fiume sieve	15.1	Max WS	TR200 1H	73.75	266.00	268.56	267.74	268.89	0.003558	2.54	29.00	12.65	0.54
fiume sieve	15.1	Max WS	TR30 2H	52.28	266.00	268.18	267.40	268.42	0.003028	2.16	24.24	12.34	0.49
fiume sieve	15.1	Max WS	TR30 1H	50.72	266.00	268.15	267.38	268.38	0.002986	2.13	23.86	12.31	0.49
fiume sieve	15.05			Inl Struct									
fiume sieve	15	Max WS	TR200 2H	75.10	264.05	267.78	266.78	268.10	0.003380	2.50	30.09	12.02	0.50
fiume sieve	15	Max WS	TR200 1H	73.40	264.05	267.87	266.76	268.16	0.002912	2.35	31.19	12.09	0.47
fiume sieve	15	Max WS	TR30 2H	52.26	264.05	267.47	266.32	267.67	0.002401	1.98	26.37	11.76	0.42
fiume sieve	15	Max WS	TR30 1H	50.72	264.05	267.44	266.29	267.63	0.002357	1.95	26.00	11.74	0.42
fiume sieve	14.99			Lat Struct									
fiume sieve	14.98			Lat Struct									
fiume sieve	14.1	Max WS	TR200 2H	75.27	264.91	267.56	267.08	268.06	0.005946	3.14	24.00	11.69	0.70
fiume sieve	14.1	Max WS	TR200 1H	69.11	264.91	267.58	266.98	267.99	0.004908	2.86	24.18	11.71	0.64
fiume sieve	14.1	Max WS	TR30 2H	52.10	264.91	267.22	266.68	267.56	0.004778	2.60	20.05	11.22	0.62
fiume sieve	14.1	Max WS	TR30 1H	50.85	264.91	267.19	266.66	267.53	0.004763	2.58	19.74	11.18	0.62
fiume sieve	14.05			Bridge									
fiume sieve	14	Max WS	TR200 2H	75.27	264.91	267.31	267.08	267.96	0.008651	3.57	21.06	11.34	0.84
fiume sieve	14	Max WS	TR200 1H	77.18	264.91	267.16	267.11	267.96	0.011437	3.97	19.46	11.14	0.96
fiume sieve	14	Max WS	TR30 2H	56.11	264.91	266.79	266.76	267.47	0.011988	3.64	15.40	10.63	0.97
fiume sieve	14	Max WS	TR30 1H	50.86	264.91	266.71	266.66	267.33	0.011641	3.49	14.55	10.51	0.95
fiume sieve	13.99			Lat Struct									
fiume sieve	13.98			Lat Struct									
fiume sieve	13.1	Max WS	TR200 2H	75.50	264.00	267.17	266.05	267.46	0.002687	2.38	31.79	12.72	0.48
fiume sieve	13.1	Max WS	TR200 1H	75.08	264.00	267.16	266.05	267.45	0.002688	2.37	31.65	12.70	0.48
fiume sieve	13.1	Max WS	TR30 2H	54.76	264.00	266.80	265.69	267.00	0.002208	2.02	27.12	12.16	0.43
fiume sieve	13.1	Max WS	TR30 1H	51.03	264.00	266.72	265.61	266.91	0.002113	1.95	26.21	12.05	0.42
fiume sieve	13.05			Inl Struct									
fiume sieve	13	Max WS	TR200 2H	75.50	263.06	266.41	266.13	267.03	0.009216	3.47	21.74	11.53	0.81
fiume sieve	13	Max WS	TR200 1H	75.20	263.06	266.38	266.13	267.01	0.009576	3.51	21.40	11.48	0.82
fiume sieve	13	Max WS	TR30 2H	54.76	263.06	266.07	265.77	266.55	0.008567	3.06	17.88	10.93	0.76
fiume sieve	13	Max WS	TR30 1H	51.04	263.06	266.01	265.70	266.46	0.008231	2.95	17.27	10.84	0.75
fiume sieve	12.99			Lat Struct									
fiume sieve	12.98			Lat Struct									
fiume sieve	12.2	Max WS	TR200 2H	75.78	264.04	265.91	265.71	266.44	0.007910	3.23	23.49	14.99	0.82
fiume sieve	12.2	Max WS	TR200 1H	74.90	264.04	265.90	265.69	266.43	0.007902	3.21	23.32	14.97	0.82
fiume sieve	12.2	Max WS	TR30 2H	54.45	264.04	265.62	265.41	266.03	0.007420	2.83	19.24	14.40	0.78
fiume sieve	12.2	Max WS	TR30 1H	51.26	264.04	265.58	265.36	265.97	0.007330	2.76	18.56	14.30	0.77
fiume sieve	12.15			Inl Struct									
fiume sieve	12.1	Max WS	TR200 2H	75.79	261.86	264.84	264.23	265.27	0.004794	2.89	26.23	12.50	0.64
fiume sieve	12.1	Max WS	TR200 1H	74.71	261.86	264.93	264.21	265.31	0.004133	2.73	27.36	12.66	0.59
fiume sieve	12.1	Max WS	TR30 2H	54.45	261.86	264.54	263.87	264.84	0.003825	2.42	22.50	11.96	0.56
fiume sieve	12.1	Max WS	TR30 1H	51.26	261.86	264.47	263.81	264.75	0.003781	2.37	21.66	11.84	0.56
fiume sieve	12.09			Lat Struct									
fiume sieve	12.08			Lat Struct									
fiume sieve	12.05	Max WS	TR200 2H	75.83	262.18	264.77	264.30	265.27	0.005739	3.11	24.37	12.16	0.70
fiume sieve	12.05	Max WS	TR200 1H	74.72	262.18	264.82	264.28	265.28	0.005207	2.99	24.96	12.25	0.67
fiume sieve	12.05	Max WS	TR30 2H	54.34	262.18	264.44	263.92	264.80	0.004851	2.66	20.43	11.54	0.64
fiume sieve	12.05	Max WS	TR30 1H	51.29	262.18	264.37	263.87	264.72	0.004853	2.61	19.62	11.41	0.64
fiume sieve	12.03			Bridge									
fiume sieve	12	Max WS	TR200 2H	75.83	262.18	264.49	264.30	265.16	0.008718	3.61	21.02	11.63	0.86
fiume sieve	12	Max WS	TR200 1H	74.97	262.18	264.40	264.28	265.12	0.009804	3.75	20.01	11.47	0.91
fiume sieve	12	Max WS	TR30 2H	54.35	262.18	264.00	263.92	264.63	0.010623	3.49	15.55	10.73	0.93
fiume sieve	12	Max WS	TR30 1H	51.29	262.18	263.95	263.87	264.55	0.010604	3.43	14.95	10.63	0.92
fiume sieve	11.89			Lat Struct									
fiume sieve	11.88			Lat Struct									
fiume sieve	11.1	Max WS	TR200 2H	76.16	261.36	263.99	263.50	264.54	0.006354	3.27	23.28	10.86	0.71
fiume sieve	11.1	Max WS	TR200 1H	75.10	261.36	263.85	263.49	264.46	0.007465	3.45	21.76	10.65	0.77
fiume sieve	11.1	Max WS	TR30 2H	54.35	261.36	263.42	263.11	263.92	0.007513	3.14	17.29	10.04	0.76
fiume sieve	11.1	Max WS	TR30 1H	51.55	261.36	263.36	263.06	263.85	0.007432	3.08	16.73	9.97	0.76
fiume sieve	11	Max WS	TR200 2H	76.24	261.13	263.99	263.27	264.41	0.004521	2.86	26.66	11.74	0.61
fiume sieve	11	Max WS	TR200 1H	75.16	261.13	263.94	263.25	264.36	0.004681	2.88	26.07	11.66	0.62
fiume sieve	11	Max WS	TR30 2H	54.27	261.13	263.49	262.89	263.83	0.004507	2.58	21.01	11.02	0.60
fiume sieve	11	Max WS	TR30 1H	51.62	261.13	263.44	262.83	263.76	0.004453	2.53	20.37	10.94	0.59

HEC-RAS   Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
fiume sieve	10.8			Bridge									
fiume sieve	10.5	Max WS	TR200 2H	76.24	261.13	263.78	263.27	264.29	0.005914	3.14	24.25	11.43	0.69
fiume sieve	10.5	Max WS	TR200 1H	75.14	261.13	263.64	263.24	264.20	0.007032	3.33	22.58	11.22	0.75
fiume sieve	10.5	Max WS	TR30 2H	54.37	261.13	263.21	262.89	263.68	0.007164	3.03	17.92	10.64	0.75
fiume sieve	10.5	Max WS	TR30 1H	51.62	261.13	263.14	262.83	263.60	0.007302	3.00	17.18	10.54	0.75
fiume sieve	10.499			Lat Struct									
fiume sieve	10.498			Lat Struct									
fiume sieve	10	Max WS	TR200 2H	76.33	260.70	263.78	262.98	264.15	0.003830	2.70	28.30	12.62	0.58
fiume sieve	10	Max WS	TR200 1H	75.23	260.70	263.74	262.97	264.11	0.003914	2.71	27.79	12.55	0.58
fiume sieve	10	Max WS	TR30 2H	54.42	260.70	263.29	262.61	263.60	0.003771	2.43	22.39	11.77	0.56
fiume sieve	10	Max WS	TR30 1H	51.69	260.70	263.22	262.56	263.51	0.003807	2.40	21.52	11.64	0.56
fiume sieve	9.8			Bridge									
fiume sieve	9.5	Max WS	TR200 2H	76.33	260.70	263.13	262.98	263.84	0.009625	3.74	20.44	11.48	0.89
fiume sieve	9.5	Max WS	TR200 1H	75.23	260.70	263.14	262.97	263.82	0.009186	3.66	20.56	11.50	0.87
fiume sieve	9.5	Max WS	TR30 2H	54.38	260.70	262.78	262.61	263.33	0.008909	3.28	16.59	10.90	0.85
fiume sieve	9.5	Max WS	TR30 1H	51.69	260.70	262.74	262.56	263.26	0.008785	3.21	16.10	10.83	0.84
fiume sieve	9.49			Lat Struct									
fiume sieve	9.48			Lat Struct									
fiume sieve	9	Max WS	TR200 2H	76.76	259.73	262.01	261.80	262.61	0.008397	3.45	22.22	13.00	0.84
fiume sieve	9	Max WS	TR200 1H	75.60	259.73	262.02	261.78	262.60	0.008033	3.38	22.35	13.05	0.83
fiume sieve	9	Max WS	TR30 2H	54.52	259.73	261.68	261.45	262.14	0.007577	3.00	18.15	12.31	0.79
fiume sieve	9	Max WS	TR30 1H	52.01	259.73	261.64	261.41	262.08	0.007481	2.95	17.66	12.25	0.78
fiume sieve	8	Max WS	TR200 2H	77.23	258.95	261.05	260.98	261.74	0.010385	3.68	20.97	13.37	0.94
fiume sieve	8	Max WS	TR200 1H	76.06	258.95	261.03	260.96	261.71	0.010292	3.65	20.82	13.34	0.93
fiume sieve	8	Max WS	TR30 2H	54.66	258.95	260.70	260.62	261.26	0.010403	3.32	16.47	12.39	0.92
fiume sieve	8	Max WS	TR30 1H	52.38	258.95	260.66	260.58	261.20	0.010372	3.27	16.00	12.29	0.92
fiume sieve	7.2	Max WS	TR200 2H	77.59	257.88	260.31	260.12	260.89	0.008423	3.39	22.88	13.98	0.85
fiume sieve	7.2	Max WS	TR200 1H	76.42	257.88	260.40	260.11	260.91	0.006935	3.16	24.21	14.19	0.77
fiume sieve	7.2	Max WS	TR30 2H	54.81	257.88	260.01	259.78	260.44	0.007471	2.91	18.82	13.38	0.78
fiume sieve	7.2	Max WS	TR30 1H	52.62	257.88	259.97	259.75	260.39	0.007491	2.88	18.29	13.30	0.78
fiume sieve	7.1	Max WS	TR200 2H	77.64	257.45	260.17	260.19	261.09	0.017920	4.25	18.26	10.15	0.82
fiume sieve	7.1	Max WS	TR200 1H	76.47	257.45	260.22	260.17	261.07	0.016334	4.09	18.71	10.15	0.78
fiume sieve	7.1	Max WS	TR30 2H	54.86	257.45	259.84	259.81	260.53	0.015266	3.69	14.85	10.10	0.76
fiume sieve	7.1	Max WS	TR30 1H	52.70	257.45	259.81	259.77	260.48	0.014834	3.62	14.56	10.09	0.75
fiume sieve	7.05	Max WS	TR200 2H	77.65	257.45	260.15	260.19	261.10	0.018466	4.30	18.05	10.15	0.84
fiume sieve	7.05	Max WS	TR200 1H	75.75	257.45	260.20	260.16	261.05	0.016492	4.09	18.50	10.15	0.79
fiume sieve	7.05	Max WS	TR30 2H	54.87	257.45	259.82	259.81	260.53	0.015786	3.74	14.66	10.10	0.78
fiume sieve	7.05	Max WS	TR30 1H	52.66	257.45	259.79	259.77	260.47	0.015287	3.66	14.39	10.09	0.76
fiume sieve	7.049			Lat Struct									
fiume sieve	7.048			Lat Struct									
fiume sieve	7	Max WS	TR200 2H	77.68	257.48	260.07	259.62	260.48	0.005345	2.85	27.29	14.88	0.67
fiume sieve	7	Max WS	TR200 1H	76.54	257.48	260.17	259.61	260.53	0.004402	2.65	28.83	14.97	0.61
fiume sieve	7	Max WS	TR30 2H	54.88	257.48	259.77	259.32	260.06	0.004602	2.41	22.79	14.63	0.62
fiume sieve	7	Max WS	TR30 1H	53.11	257.48	259.73	259.30	260.02	0.004621	2.38	22.28	14.60	0.62
fiume sieve	6	Max WS	TR200 2H	77.95	257.11	259.58	259.41	260.31	0.009417	3.78	20.61	10.89	0.88
fiume sieve	6	Max WS	TR200 1H	76.83	257.11	259.52	259.39	260.28	0.009971	3.84	20.00	10.81	0.90
fiume sieve	6	Max WS	TR30 2H	54.99	257.11	259.18	259.01	259.75	0.009185	3.37	16.31	10.33	0.86
fiume sieve	6	Max WS	TR30 1H	53.05	257.11	259.14	258.97	259.70	0.009091	3.32	15.97	10.29	0.85
fiume sieve	5.2	Max WS	TR200 2H	77.80	256.25	258.76	258.32	259.25	0.005792	3.09	25.17	12.80	0.70
fiume sieve	5.2	Max WS	TR200 1H	75.28	256.25	258.51	258.27	259.11	0.007988	3.42	22.02	12.42	0.82
fiume sieve	5.2	Max WS	TR30 2H	55.24	256.25	258.17	257.95	258.66	0.007969	3.10	17.85	11.89	0.81
fiume sieve	5.2	Max WS	TR30 1H	51.97	256.25	258.14	257.90	258.59	0.007462	2.97	17.51	11.85	0.78
fiume sieve	5.1	Max WS	TR200 2H	77.74	256.22	258.75	257.97	259.05	0.003163	2.41	32.28	15.45	0.53
fiume sieve	5.1	Max WS	TR200 1H	75.24	256.22	258.60	257.93	258.92	0.003669	2.51	30.02	15.24	0.57
fiume sieve	5.1	Max WS	TR30 2H	55.25	256.22	258.22	257.66	258.48	0.003734	2.28	24.25	14.67	0.57
fiume sieve	5.1	Max WS	TR30 1H	51.72	256.22	258.20	257.60	258.44	0.003390	2.16	23.97	14.64	0.54
fiume sieve	5.08			Bridge									
fiume sieve	5.05	Max WS	TR200 2H	77.45	256.22	258.67	257.97	258.98	0.003548	2.50	30.97	15.32	0.56
fiume sieve	5.05	Max WS	TR200 1H	69.06	256.22	258.51	257.86	258.81	0.003553	2.41	28.65	15.11	0.56
fiume sieve	5.05	Max WS	TR30 2H	52.71	256.22	258.09	257.62	258.37	0.004311	2.35	22.40	14.48	0.60
fiume sieve	5.05	Max WS	TR30 1H	49.59	256.22	257.84	257.57	258.19	0.006509	2.64	18.78	14.10	0.73
fiume sieve	5.044			Lat Struct									
fiume sieve	5.03	Max WS	TR200 2H	77.45	256.02	258.69	257.76	258.95	0.002598	2.25	34.43	15.64	0.48
fiume sieve	5.03	Max WS	TR200 1H	69.27	256.02	258.57	257.66	258.80	0.002430	2.12	32.64	15.48	0.47
fiume sieve	5.03	Max WS	TR30 2H	52.78	256.02	258.16	257.41	258.36	0.002666	2.00	26.33	14.89	0.48
fiume sieve	5.03	Max WS	TR30 1H	49.59	256.02	257.92	257.37	258.16	0.003588	2.17	22.87	14.53	0.55
sievevallemulina	5	Max WS	TR200 2H	140.88	255.16	258.10	257.80	258.77	0.006896	3.61	39.02	18.90	0.80
sievevallemulina	5	Max WS	TR200 1H	130.70	255.16	257.97	257.71	258.62	0.007266	3.58	36.48	18.68	0.82

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
sievevallemulina	5	Max WS	TR30 2H	99.09	255.16	257.64	257.40	258.18	0.007170	3.25	30.47	18.09	0.80
sievevallemulina	5	Max WS	TR30 1H	85.94	255.16	257.47	257.26	257.97	0.007413	3.13	27.43	17.77	0.81
sievevallemulina	4.9			Lat Struct									
sievevallemulina	4.89			Lat Struct									
sievevallemulina	4.8571	Max WS	TR200 2H	141.52	255.11	258.03	257.76	258.73	0.007270	3.71	38.17	18.46	0.82
sievevallemulina	4.8571	Max WS	TR200 1H	130.94	255.11	257.87	257.66	258.57	0.007921	3.72	35.20	18.17	0.85
sievevallemulina	4.8571	Max WS	TR30 2H	99.23	255.11	257.55	257.33	258.12	0.007755	3.37	29.47	17.60	0.83
sievevallemulina	4.8571	Max WS	TR30 1H	85.91	255.11	257.38	257.19	257.91	0.007966	3.24	26.54	17.27	0.83
sievevallemulina	4	Max WS	TR200 2H	144.88	254.65	257.58	257.19	258.26	0.006433	3.64	39.80	17.15	0.76
sievevallemulina	4	Max WS	TR200 1H	131.26	254.65	257.36	257.06	258.04	0.007095	3.64	36.08	17.02	0.80
sievevallemulina	4	Max WS	TR30 2H	99.75	254.65	257.05	256.74	257.58	0.006660	3.24	30.76	16.83	0.77
sievevallemulina	4	Max WS	TR30 1H	85.92	254.65	256.87	256.59	257.36	0.006714	3.09	27.81	16.66	0.76
sievevallemulina	3.2	Max WS	TR200 2H	145.49	253.74	257.18	256.06	257.52	0.002485	2.56	56.76	21.10	0.50
sievevallemulina	3.2	Max WS	TR200 1H	124.08	253.74	257.25	255.86	257.49	0.001673	2.13	58.30	21.25	0.41
sievevallemulina	3.2	Max WS	TR30 2H	100.00	253.74	256.84	255.62	257.05	0.001728	2.01	49.69	20.40	0.41
sievevallemulina	3.2	Max WS	TR30 1H	86.25	253.74	256.63	255.46	256.81	0.001674	1.90	45.41	19.96	0.40
sievevallemulina	3.15	Max WS	TR200 2H	145.53	253.34	257.12	256.38	257.56	0.004314	2.93	49.75	21.55	0.61
sievevallemulina	3.15	Max WS	TR200 1H	123.70	253.34	257.18	256.16	257.48	0.002912	2.43	50.94	21.73	0.51
sievevallemulina	3.15	Max WS	TR30 2H	100.02	253.34	256.73	255.92	257.03	0.003406	2.40	41.63	20.28	0.54
sievevallemulina	3.15	Max WS	TR30 1H	86.28	253.34	256.53	255.77	256.80	0.003398	2.29	37.63	19.62	0.53
sievevallemulina	3.13			Bridge									
sievevallemulina	3.1	Max WS	TR200 2H	145.53	253.34	256.49	256.38	257.29	0.010374	3.96	36.73	19.47	0.92
sievevallemulina	3.1	Max WS	TR200 1H	134.08	253.34	256.38	256.27	257.14	0.010396	3.86	34.70	19.13	0.92
sievevallemulina	3.1	Max WS	TR30 2H	102.83	253.34	256.08	255.95	256.72	0.010271	3.54	29.08	18.14	0.89
sievevallemulina	3.1	Max WS	TR30 1H	86.28	253.34	255.90	255.77	256.47	0.010145	3.33	25.94	17.56	0.87
sievevallemulina	3.09			Lat Struct									
sievevallemulina	3.089			Lat Struct									
sievevallemulina	3	Max WS	TR200 2H	145.90	253.29	255.87	255.72	256.64	0.008577	3.91	37.33	19.53	0.90
sievevallemulina	3	Max WS	TR200 1H	133.83	253.29	255.76	255.61	256.49	0.008547	3.80	35.20	19.19	0.90
sievevallemulina	3	Max WS	TR30 2H	101.89	253.29	255.45	255.29	256.06	0.008350	3.47	29.40	18.22	0.87
sievevallemulina	3	Max WS	TR30 1H	86.48	253.29	255.28	255.11	255.83	0.008167	3.27	26.48	17.72	0.85
sievevallemulina	2	Max WS	TR200 2H	146.43	252.51	255.01	254.78	255.66	0.007372	3.58	40.94	22.25	0.84
sievevallemulina	2	Max WS	TR200 1H	134.13	252.51	254.86	254.68	255.51	0.007822	3.55	37.73	21.68	0.86
sievevallemulina	2	Max WS	TR30 2H	101.73	252.51	254.52	254.37	255.08	0.008315	3.33	30.53	20.35	0.87
sievevallemulina	2	Max WS	TR30 1H	86.68	252.51	254.37	254.21	254.88	0.008106	3.14	27.61	19.78	0.85
sievevallemulina	1.7750	Max WS	TR200 2H	146.52	252.25	254.82	254.52	255.38	0.006428	3.32	44.07	24.34	0.79
sievevallemulina	1.7750	Max WS	TR200 1H	134.22	252.25	254.72	254.41	255.25	0.006346	3.22	41.66	23.91	0.78
sievevallemulina	1.7750	Max WS	TR30 2H	101.81	252.25	254.33	254.10	254.82	0.007188	3.11	32.71	21.78	0.81
sievevallemulina	1.7750	Max WS	TR30 1H	86.73	252.25	254.20	253.94	254.63	0.006730	2.90	29.87	21.04	0.78
sievevallemulina	1.7	Max WS	TR200 2H	146.50	252.16	254.77	254.41	255.30	0.006022	3.22	45.46	25.07	0.76
sievevallemulina	1.7	Max WS	TR200 1H	134.20	252.16	254.70	254.31	255.18	0.005665	3.07	43.70	24.76	0.74
sievevallemulina	1.7	Max WS	TR30 2H	101.78	252.16	254.29	254.00	254.74	0.006485	2.99	34.06	22.30	0.77
sievevallemulina	1.7	Max WS	TR30 1H	86.66	252.16	254.16	253.83	254.55	0.005910	2.77	31.33	21.50	0.73
sieve valle vis	1.6	Max WS	TR200 2H	154.72	251.98	254.33	254.30	255.11	0.010226	3.91	39.54	24.30	0.98
sieve valle vis	1.6	Max WS	TR200 1H	143.48	251.98	254.23	254.21	254.99	0.010291	3.86	37.18	23.43	0.98
sieve valle vis	1.6	Max WS	TR30 2H	107.52	251.98	253.91	253.85	254.56	0.009960	3.58	30.04	20.67	0.95
sieve valle vis	1.6	Max WS	TR30 1H	93.97	251.98	253.78	253.72	254.38	0.009889	3.43	27.39	20.00	0.94
sieve valle vis	1.599			Lat Struct									
sieve valle vis	1.598			Lat Struct									
sieve valle vis	1	Max WS	TR200 2H	154.72	251.28	253.56	253.45	254.31	0.008801	3.86	40.13	22.24	0.92
sieve valle vis	1	Max WS	TR200 1H	143.41	251.28	253.46	253.35	254.19	0.008803	3.77	38.09	21.90	0.91
sieve valle vis	1	Max WS	TR30 2H	107.40	251.28	253.14	253.02	253.75	0.008800	3.44	31.27	20.73	0.89
sieve valle vis	1	Max WS	TR30 1H	93.96	251.28	253.01	252.89	253.56	0.008803	3.29	28.56	20.25	0.88

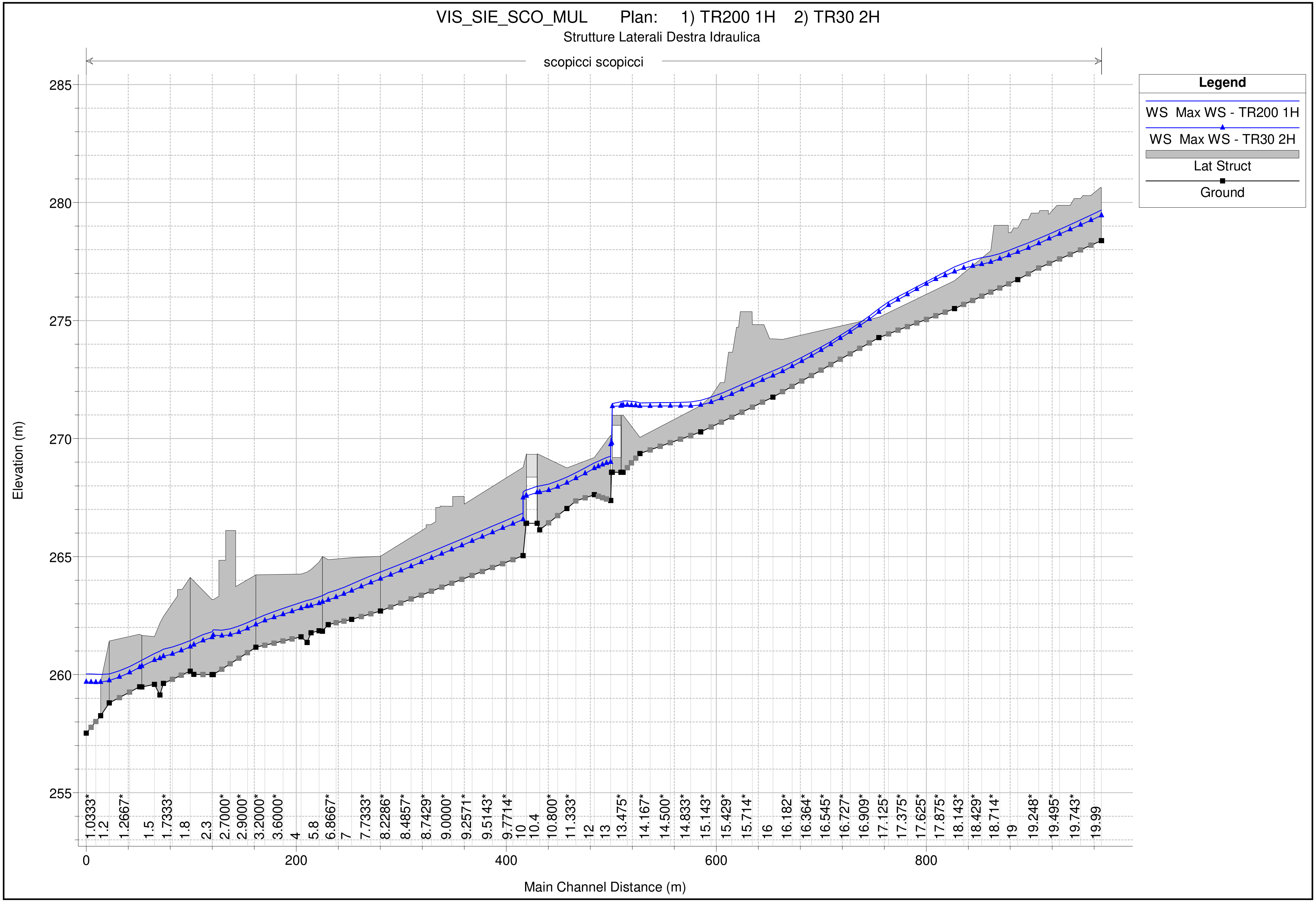
HEC-RAS Profile: Max WS

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
fiume sieve	20.109	Max WS	TR200 2H	72.91	-0.06	73.99	-0.06		5.35	0.42	0.09	272.73	274.05	273.73	271.83	271.58
fiume sieve	20.109	Max WS	TR200 1H	71.32	-0.06	72.53	-0.06		5.35	0.42	0.09	272.73	274.09	273.80	271.79	271.55
fiume sieve	20.109	Max WS	TR30 2H	50.49	-0.06	51.31	-0.06		5.35	0.42	0.09	272.73	273.69	273.47	271.31	271.14
fiume sieve	20.109	Max WS	TR30 1H	49.02	-0.06	49.87	-0.06		5.35	0.42	0.09	272.73	273.66	273.44	271.27	271.11
fiume sieve	20.108	Max WS	TR200 2H	72.91	0.00	73.99	0.00					272.68	274.05	273.73	271.83	271.58
fiume sieve	20.108	Max WS	TR200 1H	71.32	0.00	72.53	0.00					272.68	274.09	273.80	271.79	271.55
fiume sieve	20.108	Max WS	TR30 2H	50.49	0.00	51.31	0.00					272.68	273.69	273.47	271.31	271.14
fiume sieve	20.108	Max WS	TR30 1H	49.02	0.00	49.87	0.00					272.68	273.66	273.44	271.27	271.11
fiume sieve	17.99	Max WS	TR200 2H	73.99	0.00	74.41	0.00		1.45	0.01	0.00	271.72	271.54	271.00	270.87	270.29
fiume sieve	17.99	Max WS	TR200 1H	72.53	0.00	73.00	0.00		1.45	0.01	0.00	271.72	271.53	271.03	270.83	270.27
fiume sieve	17.99	Max WS	TR30 2H	51.31	0.00	51.62	0.00		1.45	0.01	0.00	271.72	271.01	270.63	270.31	269.85
fiume sieve	17.99	Max WS	TR30 1H	49.87	0.00	50.19	0.00		1.45	0.01	0.00	271.72	270.98	270.60	270.27	269.82
fiume sieve	17.98	Max WS	TR200 2H	73.99	0.00	74.41	0.00					271.85	271.54	271.00	270.87	270.29
fiume sieve	17.98	Max WS	TR200 1H	72.53	0.00	73.00	0.00					271.85	271.53	271.03	270.83	270.27
fiume sieve	17.98	Max WS	TR30 2H	51.31	0.00	51.62	0.00					271.85	271.01	270.63	270.31	269.85
fiume sieve	17.98	Max WS	TR30 1H	49.87	0.00	50.19	0.00					271.85	270.98	270.60	270.27	269.82
fiume sieve	16.99	Max WS	TR200 2H	74.41	0.00	74.82	0.00					271.00	270.79	269.97	269.82	269.45
fiume sieve	16.99	Max WS	TR200 1H	73.00	0.00	64.85	0.00					271.00	270.77	269.84	269.55	269.20
fiume sieve	16.99	Max WS	TR30 2H	51.54	0.00	49.71	0.00					271.00	270.24	269.49	269.16	268.89
fiume sieve	16.99	Max WS	TR30 1H	50.19	0.00	47.14	0.00					271.00	270.21	269.45	269.14	268.89
fiume sieve	16.98	Max WS	TR200 2H	74.41	0.00	74.82	0.00					271.02	270.79	269.97	269.82	269.44
fiume sieve	16.98	Max WS	TR200 1H	73.00	0.00	64.85	0.00					271.02	270.77	269.84	269.55	269.19
fiume sieve	16.98	Max WS	TR30 2H	51.54	0.00	49.71	0.00					271.02	270.24	269.49	269.17	268.88
fiume sieve	16.98	Max WS	TR30 1H	50.19	0.00	47.14	0.00					271.02	270.21	269.45	269.14	268.88
fiume sieve	15.99	Max WS	TR200 2H	74.82	0.00	75.10	0.00					269.92	269.52	268.84	268.92	268.59
fiume sieve	15.99	Max WS	TR200 1H	73.45	0.00	73.75	0.00					269.92	269.47	268.69	268.89	268.56
fiume sieve	15.99	Max WS	TR30 2H	53.95	0.00	52.28	0.00					269.92	268.99	268.33	268.42	268.18
fiume sieve	15.99	Max WS	TR30 1H	50.51	0.00	50.72	0.00					269.92	268.90	268.28	268.38	268.15
fiume sieve	15.98	Max WS	TR200 2H	74.82	0.00	75.10	0.00					270.21	269.52	268.84	268.92	268.59
fiume sieve	15.98	Max WS	TR200 1H	73.45	0.00	73.75	0.00					270.21	269.47	268.69	268.89	268.56
fiume sieve	15.98	Max WS	TR30 2H	53.95	0.00	52.28	0.00					270.21	268.99	268.33	268.42	268.18
fiume sieve	15.98	Max WS	TR30 1H	50.51	0.00	50.72	0.00					270.21	268.90	268.28	268.38	268.15
fiume sieve	14.99	Max WS	TR200 2H	75.10	0.00	75.27	0.00					269.92	268.10	267.78	268.06	267.56
fiume sieve	14.99	Max WS	TR200 1H	73.40	0.00	69.11	0.00					269.92	268.16	267.87	267.99	267.58
fiume sieve	14.99	Max WS	TR30 2H	52.26	0.00	52.10	0.00					269.92	267.67	267.47	267.56	267.22
fiume sieve	14.99	Max WS	TR30 1H	50.72	0.00	50.85	0.00					269.92	267.63	267.44	267.53	267.19
fiume sieve	14.98	Max WS	TR200 2H	75.10	0.00	75.27	0.00					270.03	268.10	267.78	268.06	267.56
fiume sieve	14.98	Max WS	TR200 1H	73.40	0.00	69.11	0.00					270.03	268.16	267.87	267.99	267.58
fiume sieve	14.98	Max WS	TR30 2H	52.26	0.00	52.10	0.00					270.03	267.67	267.47	267.56	267.22
fiume sieve	14.98	Max WS	TR30 1H	50.72	0.00	50.85	0.00					270.03	267.63	267.44	267.53	267.19
fiume sieve	13.99	Max WS	TR200 2H	75.27	0.00	75.50	0.00					268.59	267.96	267.31	267.46	267.17
fiume sieve	13.99	Max WS	TR200 1H	77.18	0.00	75.08	0.00					268.59	267.96	267.16	267.45	267.16
fiume sieve	13.99	Max WS	TR30 2H	56.11	0.00	54.76	0.00					268.59	267.47	266.79	267.00	266.80
fiume sieve	13.99	Max WS	TR30 1H	50.86	0.00	51.03	0.00					268.59	267.33	266.71	266.91	266.72
fiume sieve	13.98	Max WS	TR200 2H	75.27	0.00	75.50	0.00					268.77	267.96	267.31	267.46	267.17
fiume sieve	13.98	Max WS	TR200 1H	77.18	0.00	75.08	0.00					268.77	267.96	267.16	267.45	267.16
fiume sieve	13.98	Max WS	TR30 2H	56.11	0.00	54.76	0.00					268.77	267.47	266.79	267.00	266.80
fiume sieve	13.98	Max WS	TR30 1H	50.86	0.00	51.03	0.00					268.77	267.33	266.71	266.91	266.72
fiume sieve	12.99	Max WS	TR200 2H	75.50	0.00	75.78	0.00					267.61	267.03	266.41	266.45	265.91
fiume sieve	12.99	Max WS	TR200 1H	75.20	0.00	74.90	0.00					267.61	267.01	266.38	266.43	265.90
fiume sieve	12.99	Max WS	TR30 2H	54.76	0.00	54.45	0.00					267.61	266.55	266.07	266.03	265.62
fiume sieve	12.99	Max WS	TR30 1H	51.04	0.00	51.26	0.00					267.61	266.46	266.01	265.97	265.58
fiume sieve	12.98	Max WS	TR200 2H	75.50	0.00	75.78	0.00					268.06	267.03	266.41	266.45	265.91
fiume sieve	12.98	Max WS	TR200 1H	75.20	0.00	74.90	0.00					268.06	267.01	266.38	266.43	265.90
fiume sieve	12.98	Max WS	TR30 2H	54.76	0.00	54.45	0.00					268.06	266.55	266.07	266.03	265.62
fiume sieve	12.98	Max WS	TR30 1H	51.04	0.00	51.26	0.00					268.06	266.46	266.01	265.97	265.58
fiume sieve	12.09	Max WS	TR200 2H	75.79	0.00	75.83	0.00					267.59	265.27	264.84	265.27	264.77
fiume sieve	12.09	Max WS	TR200 1H	74.71	0.00	74.72	0.00					267.59	265.31	264.93	265.28	264.82
fiume sieve	12.09	Max WS	TR30 2H	54.45	0.00	54.34	0.00					267.59	264.84	264.54	264.80	264.44
fiume sieve	12.09	Max WS	TR30 1H	51.26	0.00	51.29	0.00					267.59	264.75	264.47	264.72	264.37
fiume sieve	12.08	Max WS	TR200 2H	75.79	0.00	75.83	0.00					268.06	265.27	264.84	265.27	264.77
fiume sieve	12.08	Max WS	TR200 1H	74.71	0.00	74.72	0.00					268.06	265.31	264.93	265.28	264.82
fiume sieve	12.08	Max WS	TR30 2H	54.45	0.00	54.34	0.00					268.06	264.84	264.54	264.80	264.44
fiume sieve	12.08	Max WS	TR30 1H	51.26	0.00	51.29	0.00					268.06	264.75	264.47	264.72	264.37
fiume sieve	11.89	Max WS	TR200 2H	75.83	0.00	76.24	0.00					267.33	265.16	264.49	264.41	263.99
fiume sieve	11.89	Max WS	TR200 1H	74.97	0.00	75.16	0.00					267.33	265.12	264.40	264.37	263.94
fiume sieve	11.89	Max WS	TR30 2H	54.35	0.00	54.27	0.00					267.33	264.63	264.00	263.84	263.49
fiume sieve	11.89	Max WS	TR30 1H	51.29	0.00	51.62	0.00					267.33	264.55	263.95	263.76	263.44
fiume sieve	11.88	Max WS	TR200 2H	75.83	0.00	76.24	0.00					266.90	265.16	264.49	264.41	263.99
fiume sieve	11.88	Max WS	TR200 1H	74.97	0.00	75.16	0.00					266.90	265.12	264.40	264.36	263.94
fiume sieve	11.88	Max WS	TR30 2H	54.35	0.00	54.27	0.00					266.90	264.63	264.00	263.83	263.49
fiume sieve	11.88	Max WS	TR30 1H	51.29	0.00	51.62	0.00					266.90	264.55	263.95	263.76	263.44
fiume sieve	10.499	Max WS	TR200 2H	76.24	0.00	76.33	0.00		0.00	0.02	0.01	271.14	264.29	263.78	264.15	263.78
fiume sieve	10.499	Max WS	TR200 1H	75.14	0.00	75.23	0.00		0.00	0.02	0.01	271.14	264.20	263.64	264.11	263.74
fiume sieve	10.499	Max WS	TR30 2H	54.37	0.00	54.42	0.00		0.00	0.02	0.01	271.14	263.68	263.21	263.60	263.29
fiume sieve	10.499	Max WS	TR30 1H	51.62	0.00	51.69	0.00		0.00	0.02	0.01	271.14	263.60	263.14	263.51	263.22
fiume sieve	10.498	Max WS	TR200 2H	76.24	0.00	76.33	0.00					267.21	264.29	263.78	264.15	263.78
fiume sieve	10.498	Max WS	TR200 1H	75.14	0.00	75.23	0.00					267.21	264.20	263.64	264.11	263.74
fiume sieve	10.498	Max WS	TR30 2H	54.37	0.00	54.42	0.00					267.21	263.68	263.21	263.60	263.29
fiume sieve	10.498	Max WS	TR30 1H	51.62	0.00	51.69	0.00					267.21	263.60	263.14	263.51	263.22
fiume sieve	9.49	Max WS	TR200 2H	76.33	0.00	77.64	0.00					261.82	263.84	263.13	261.09	260.17
fiume sieve	9.49	Max WS	TR200 1H	75.23	0.00	76.47	0.00					261.82	263.82	263.14	261.06	260.22
fiume sieve	9.49	Max WS	TR30 2H	54.38	0.00	54.86	0.00					261.82	263.33	262.78	260.53	259.84
fiume sieve	9.49	Max WS	TR30 1H	51.69	0.00	52.70	0.00					261.82	263.26	262.74	260.47	259.81
fiume sieve	9.48	Max WS	TR200 2H	76.33	0.00	77.64	0.00					261.97	263.84	263.13	261.09	260.17
fiume sieve	9.48	Max WS	TR200 1H	75.23	0.00	76.47	0.00					261.97	263.82	263.14	261.07	260.22
fiume sieve	9.48	Max WS	TR30 2H	54.38	0.00	54.86	0.00					261.97	263.33	262.78	260.53	259.84
fiume sieve	9.48	Max WS	TR30 1H	51.69	0.00	52.70	0.00					261.97	263.26	262.74	260.47	259.81
fiume sieve	7.049	Max WS	TR200 2H	77.65	0.00	77.74	0.00		0.29	0.01	0.00	259.64	261.10	260.15	259.05	258.75
fiume sieve	7.049	Max WS	TR200 1H	75.75	0.00	75.24	0.00		0.29	0.01	0.00	259.64	261.05	260.20	258.92	258.60
fiume sieve	7.049	Max WS	TR30 2H	54.87	0.00	55.25	0.00		0.29	0.01	0.00	259.64	260.53	259.82	258.48	258.22
fiume sieve	7.049	Max WS	TR30 1H	52.66	0.00	51.72	0.00		0.29	0.01	0.00	259.64	260.47	259.79	258.44	258.20

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
fiume sieve	7.048	Max WS	TR200 2H	77.65	0.00	77.80	0.00					260.59	261.10	260.15	259.25	258.76
fiume sieve	7.048	Max WS	TR200 1H	75.75	0.00	75.28	0.00					260.59	261.05	260.20	259.11	258.51
fiume sieve	7.048	Max WS	TR30 2H	54.87	0.00	55.24	0.00					260.59	260.53	259.82	258.66	258.17
fiume sieve	7.048	Max WS	TR30 1H	52.66	0.00	51.97	0.00					260.59	260.47	259.79	258.59	258.14
fiume sieve	5.044	Max WS	TR200 2H	77.45	0.00	77.45	0.00					261.80	258.98	258.67	258.95	258.69
fiume sieve	5.044	Max WS	TR200 1H	69.06	0.00	69.27	0.00					261.80	258.81	258.51	258.80	258.57
fiume sieve	5.044	Max WS	TR30 2H	52.71	0.00	52.78	0.00					261.80	258.37	258.09	258.36	258.15
fiume sieve	5.044	Max WS	TR30 1H	49.59	0.00	49.59	0.00					261.80	258.19	257.84	258.17	257.91
sievevallemulina	4.9	Max WS	TR200 2H	140.88	-7.03	145.53	-7.03		128.35	0.62	0.30	258.05	258.77	258.10	257.56	257.12
sievevallemulina	4.9	Max WS	TR200 1H	130.70	-5.98	123.70	-5.98		110.15	0.60	0.30	258.05	258.62	257.97	257.48	257.18
sievevallemulina	4.9	Max WS	TR30 2H	99.09	-2.69	100.02	-2.69		54.91	0.46	0.31	258.05	258.18	257.64	257.03	256.74
sievevallemulina	4.9	Max WS	TR30 1H	85.94	-2.08	86.28	-2.08		52.33	0.42	0.27	258.05	257.97	257.47	256.80	256.53
sievevallemulina	4.89	Max WS	TR200 2H	140.88	0.00	145.53	0.00					257.94	258.77	258.10	257.56	257.12
sievevallemulina	4.89	Max WS	TR200 1H	130.70	0.00	123.70	0.00					257.94	258.62	257.97	257.48	257.18
sievevallemulina	4.89	Max WS	TR30 2H	99.09	0.00	100.02	0.00					257.94	258.18	257.64	257.03	256.74
sievevallemulina	4.89	Max WS	TR30 1H	85.94	0.00	86.28	0.00					257.94	257.97	257.47	256.80	256.53
sievevallemulina	3.09	Max WS	TR200 2H	145.53	-0.25	146.50	-0.25		7.34	0.48	0.23	255.41	257.29	256.49	255.30	254.77
sievevallemulina	3.09	Max WS	TR200 1H	134.08	-0.25	134.20	-0.25		7.34	0.48	0.23	255.41	257.14	256.38	255.18	254.70
sievevallemulina	3.09	Max WS	TR30 2H	102.83	-0.25	101.78	-0.25		7.34	0.48	0.23	255.41	256.72	256.08	254.74	254.29
sievevallemulina	3.09	Max WS	TR30 1H	86.28	-0.25	86.66	-0.25		7.34	0.48	0.23	255.41	256.47	255.90	254.55	254.16
sievevallemulina	3.089	Max WS	TR200 2H	145.53	0.00	146.50	0.00					255.39	257.29	256.49	255.30	254.77
sievevallemulina	3.089	Max WS	TR200 1H	134.08	0.00	134.20	0.00					255.39	257.14	256.38	255.18	254.70
sievevallemulina	3.089	Max WS	TR30 2H	102.83	0.00	101.78	0.00					255.39	256.72	256.08	254.74	254.29
sievevallemulina	3.089	Max WS	TR30 1H	86.28	0.00	86.66	0.00					255.39	256.47	255.90	254.55	254.16
sieve valle vis	1.599	Max WS	TR200 2H	154.72	0.00	154.72	0.00					255.01	255.11	254.33	254.32	253.56
sieve valle vis	1.599	Max WS	TR200 1H	143.48	0.00	143.41	0.00					255.01	254.99	254.23	254.19	253.46
sieve valle vis	1.599	Max WS	TR30 2H	107.52	0.00	107.40	0.00					255.01	254.56	253.91	253.75	253.14
sieve valle vis	1.599	Max WS	TR30 1H	93.97	0.00	93.96	0.00					255.01	254.38	253.78	253.56	253.01
sieve valle vis	1.598	Max WS	TR200 2H	154.72	0.00	154.72	0.00					254.89	255.11	254.33	254.31	253.56
sieve valle vis	1.598	Max WS	TR200 1H	143.48	0.00	143.41	0.00					254.89	254.99	254.23	254.19	253.46
sieve valle vis	1.598	Max WS	TR30 2H	107.52	0.00	107.40	0.00					254.89	254.56	253.91	253.75	253.14
sieve valle vis	1.598	Max WS	TR30 1H	93.97	0.00	93.96	0.00					254.89	254.38	253.78	253.56	253.01

FOSSO
SCOPICCI



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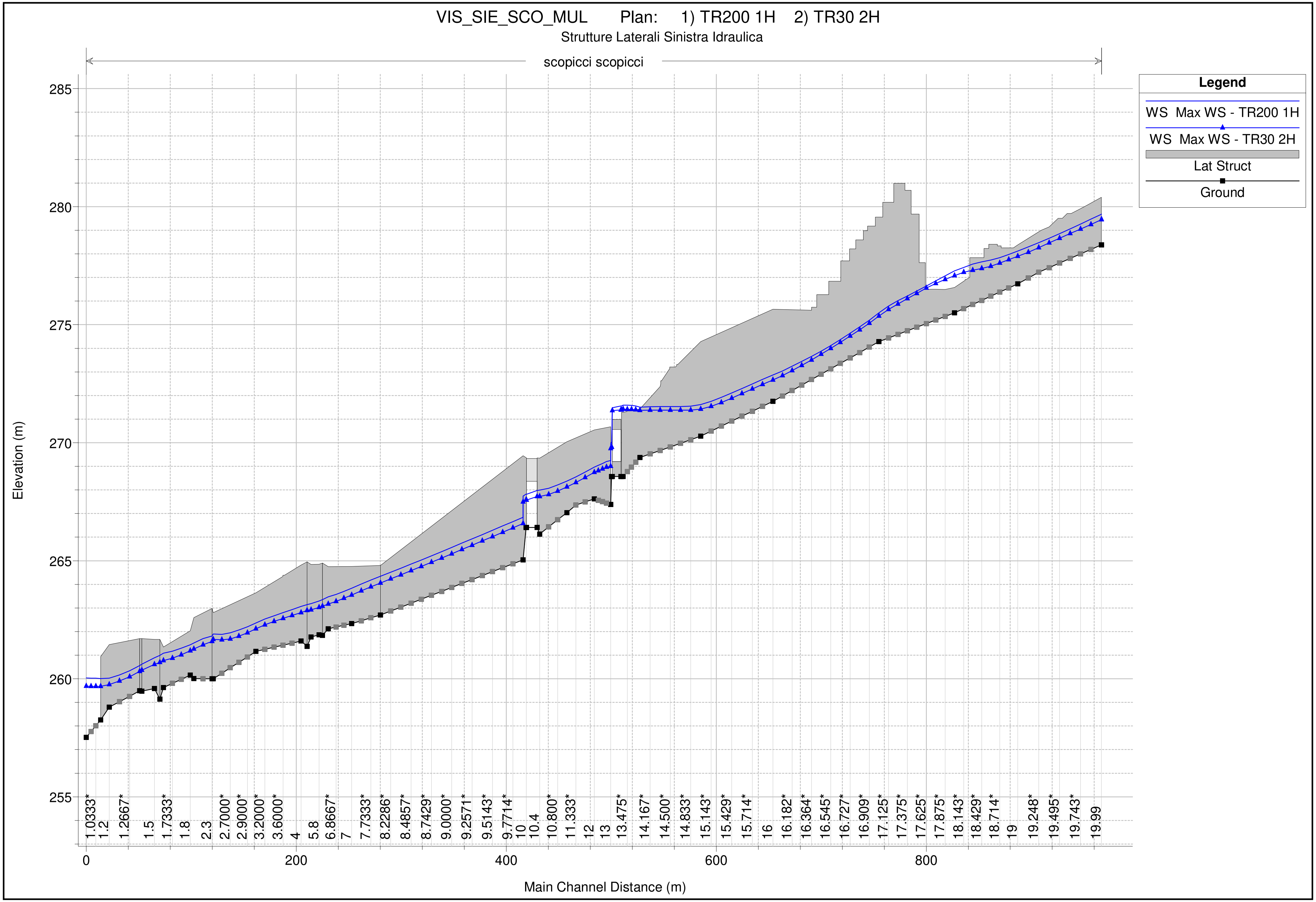
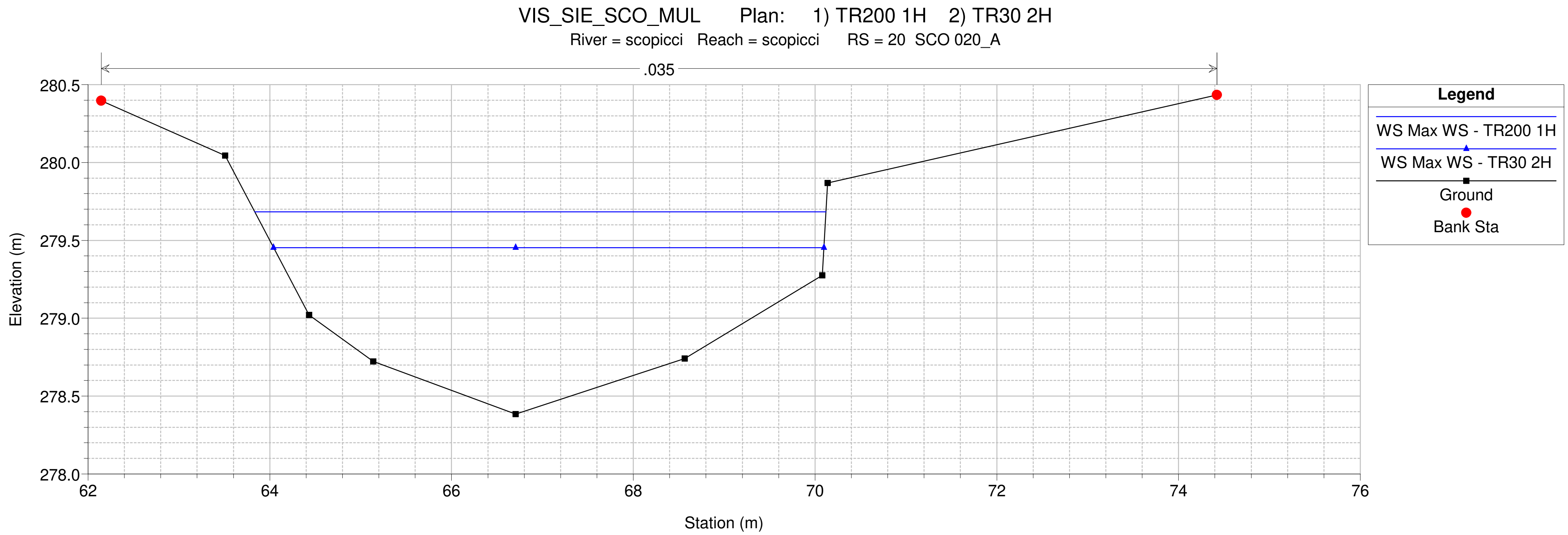


1 cm Horiz. = 45 m   1 cm Vert. = 2 m



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Legend
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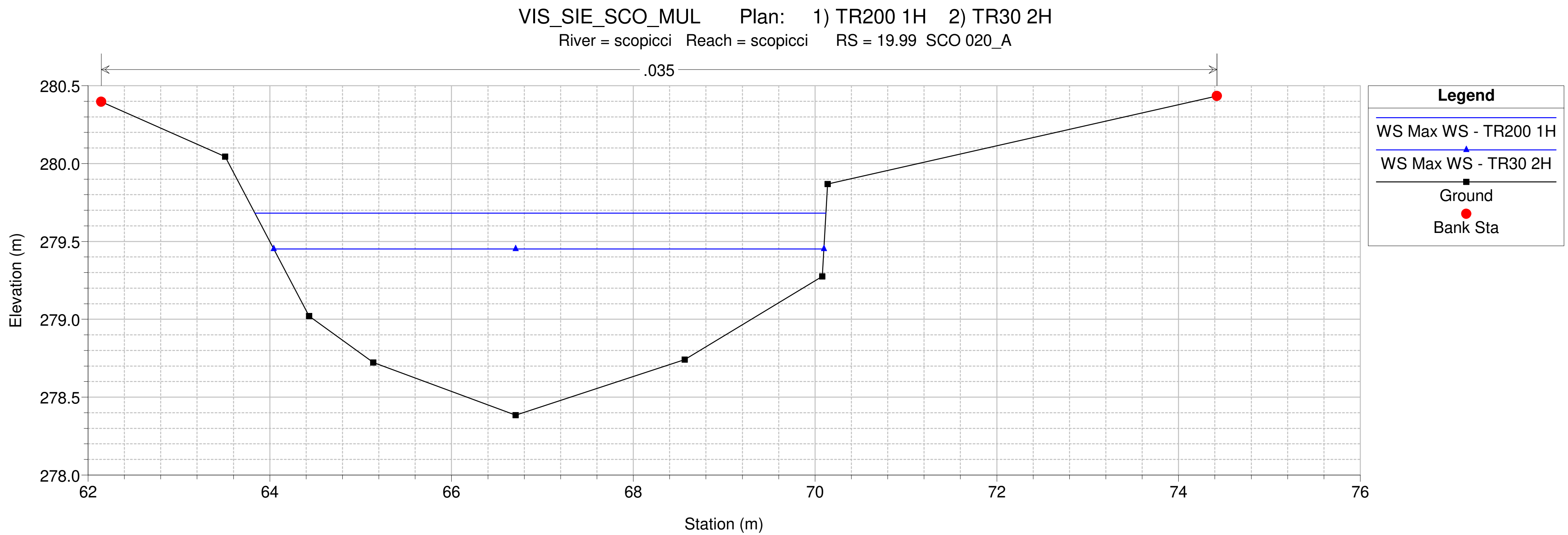
WS Max WS - TR30 2H
Ground
Bank Sta



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Station (m)
Legend
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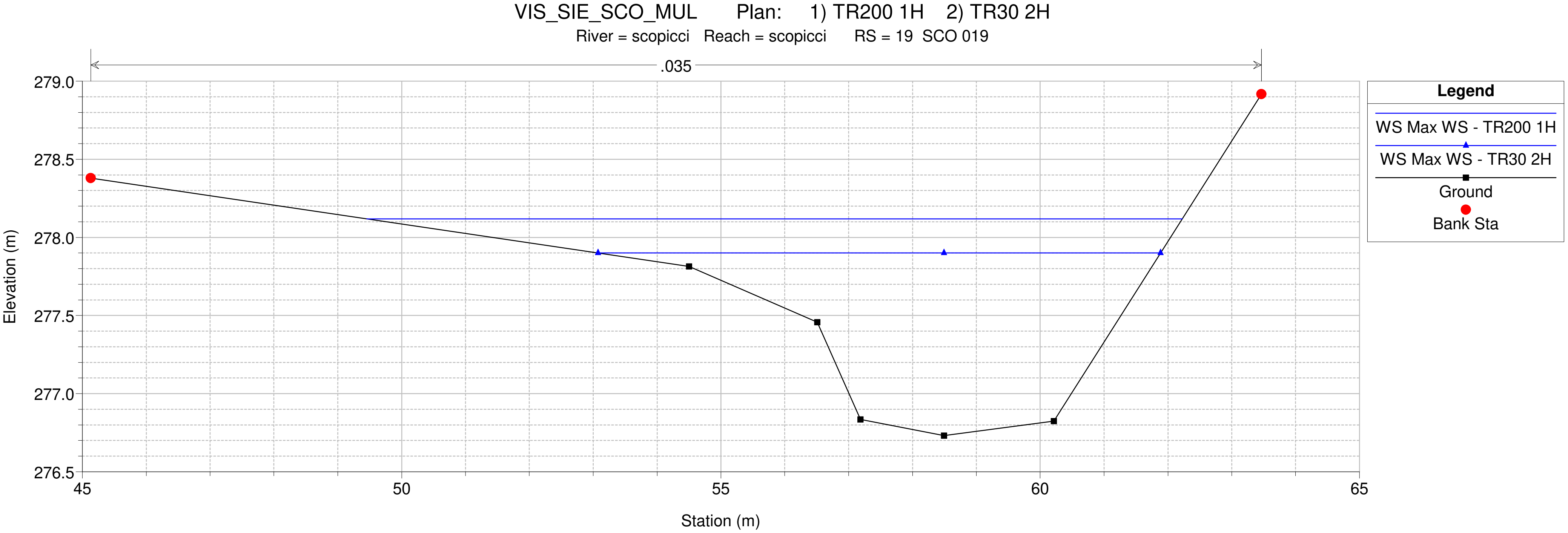
WS Max WS - TR30 2H
Ground
Bank Sta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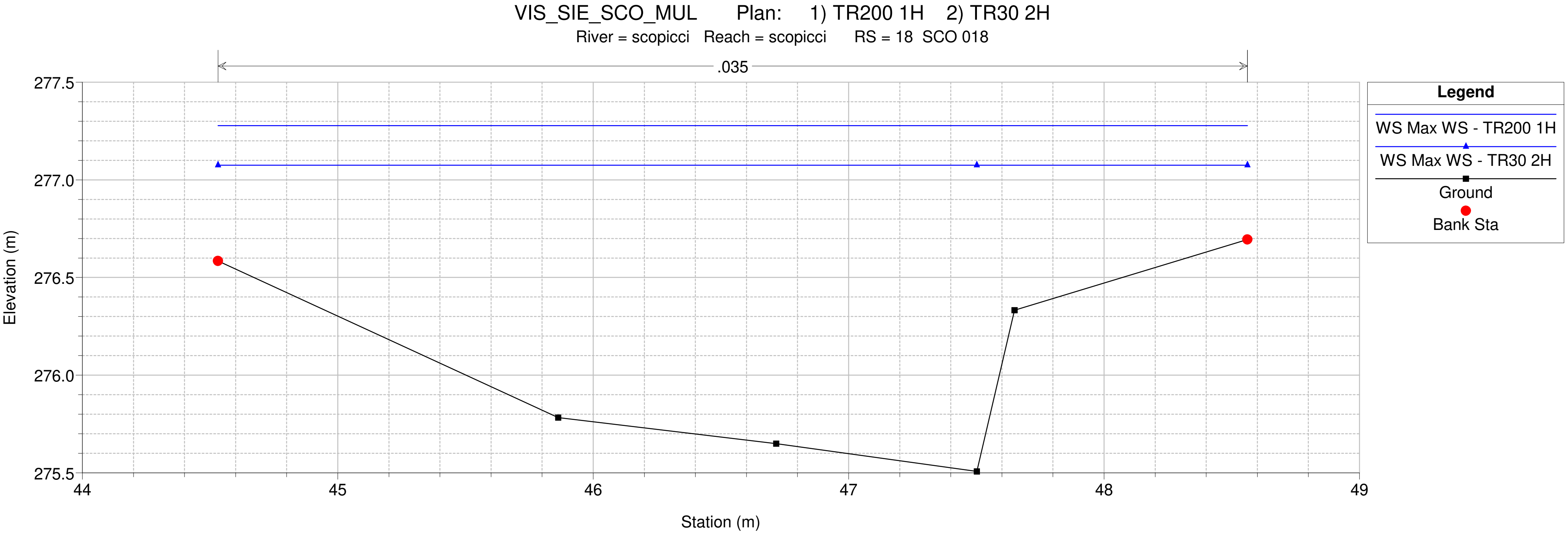
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Ground
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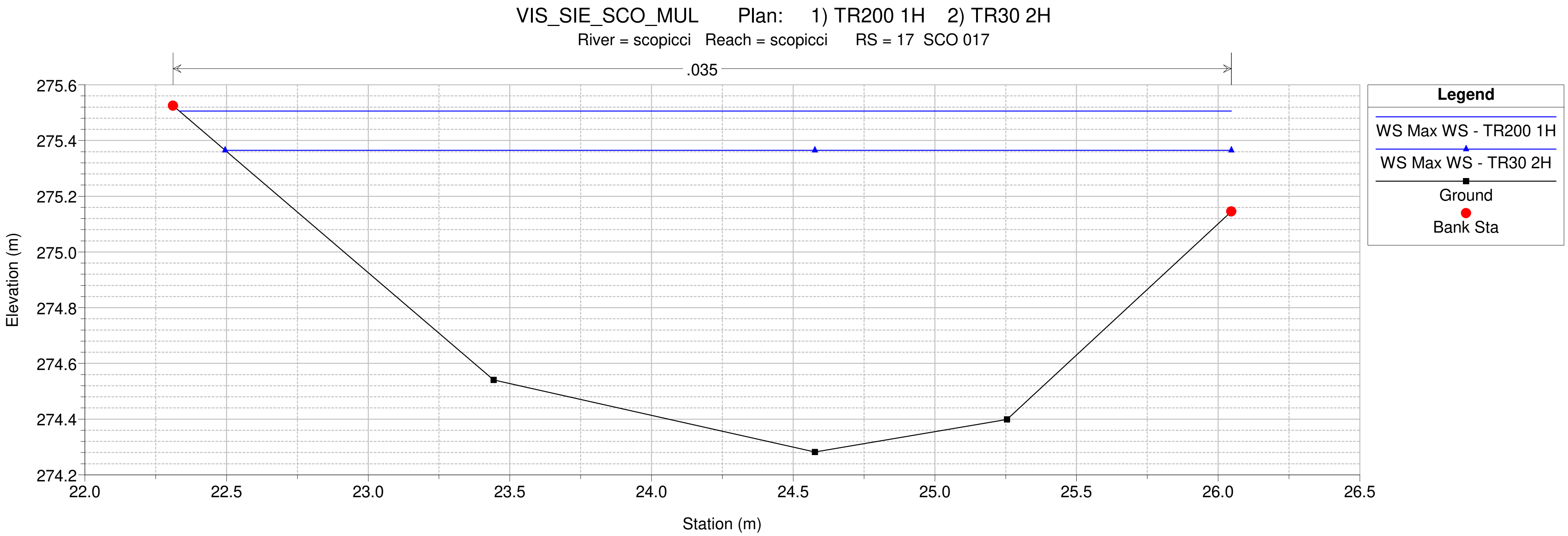
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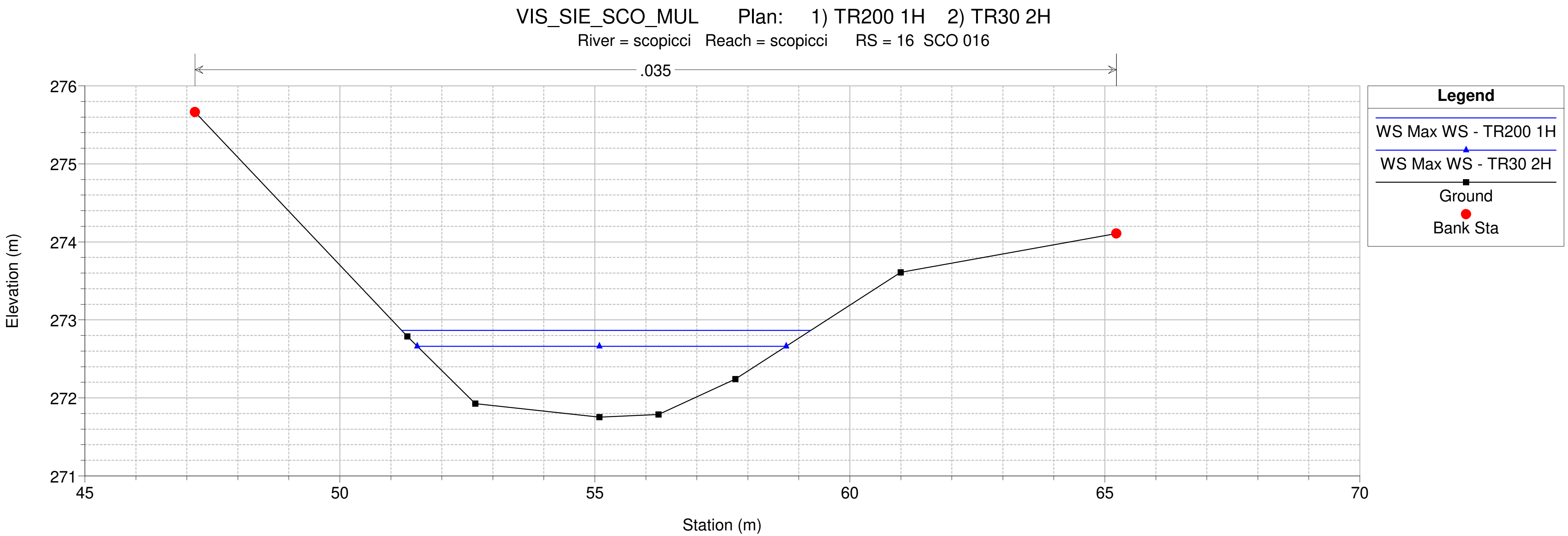
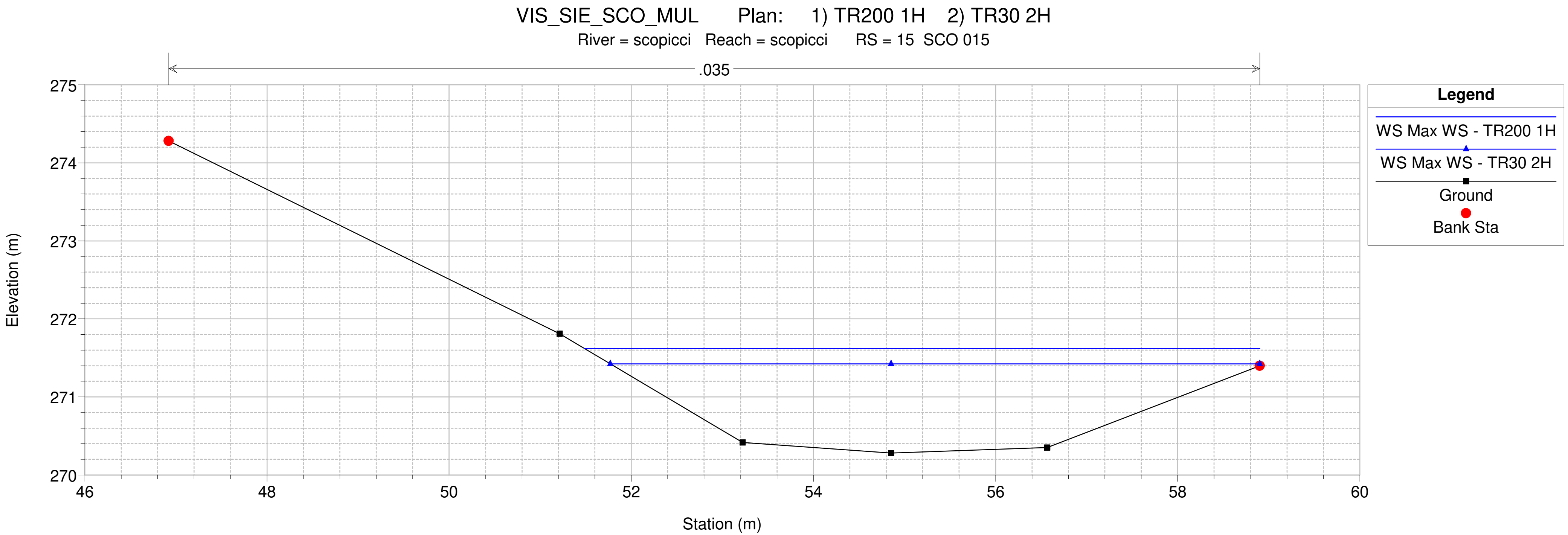
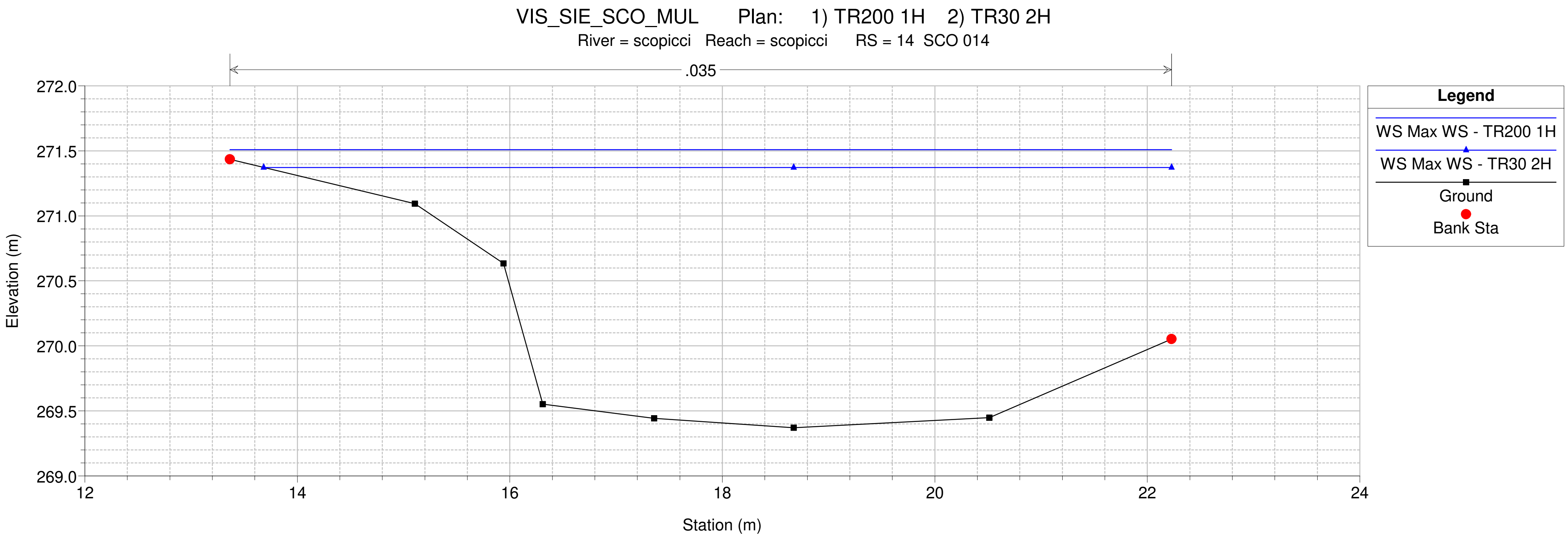
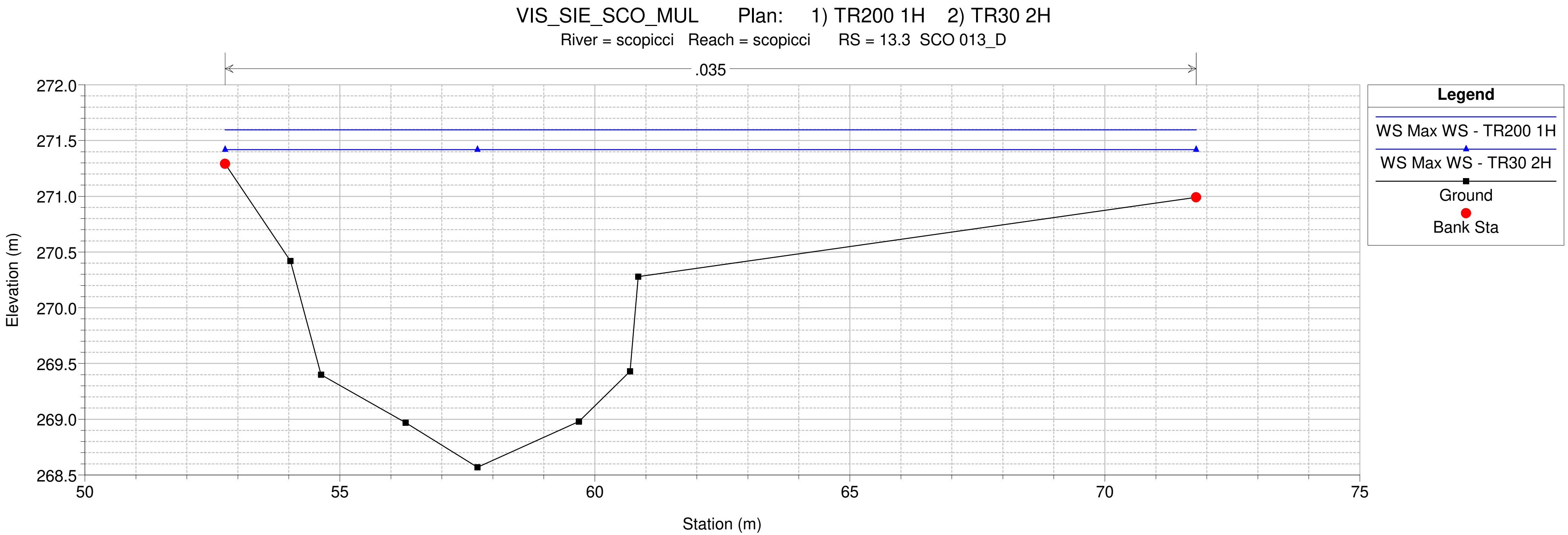
Bank Sta

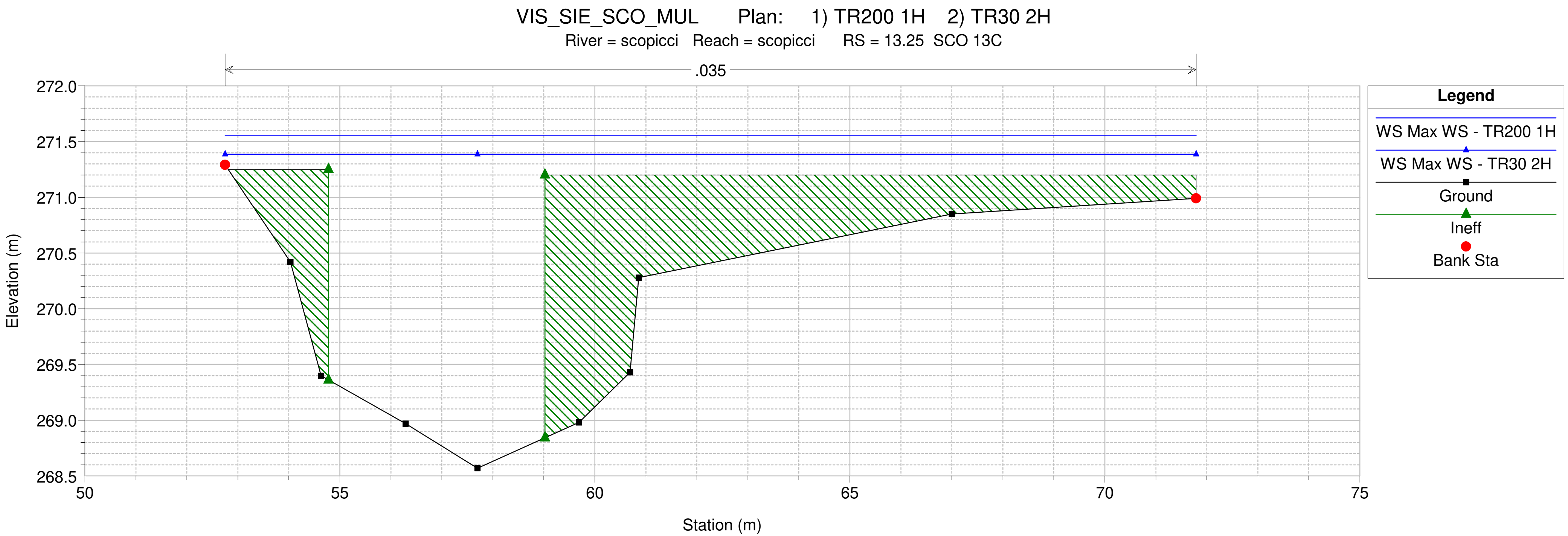

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 16 SCO 016
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 15 SCO 015
.035
Elevation (m)
275
274
273
272
271
270
46
48
50
52
54
56
58
60
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

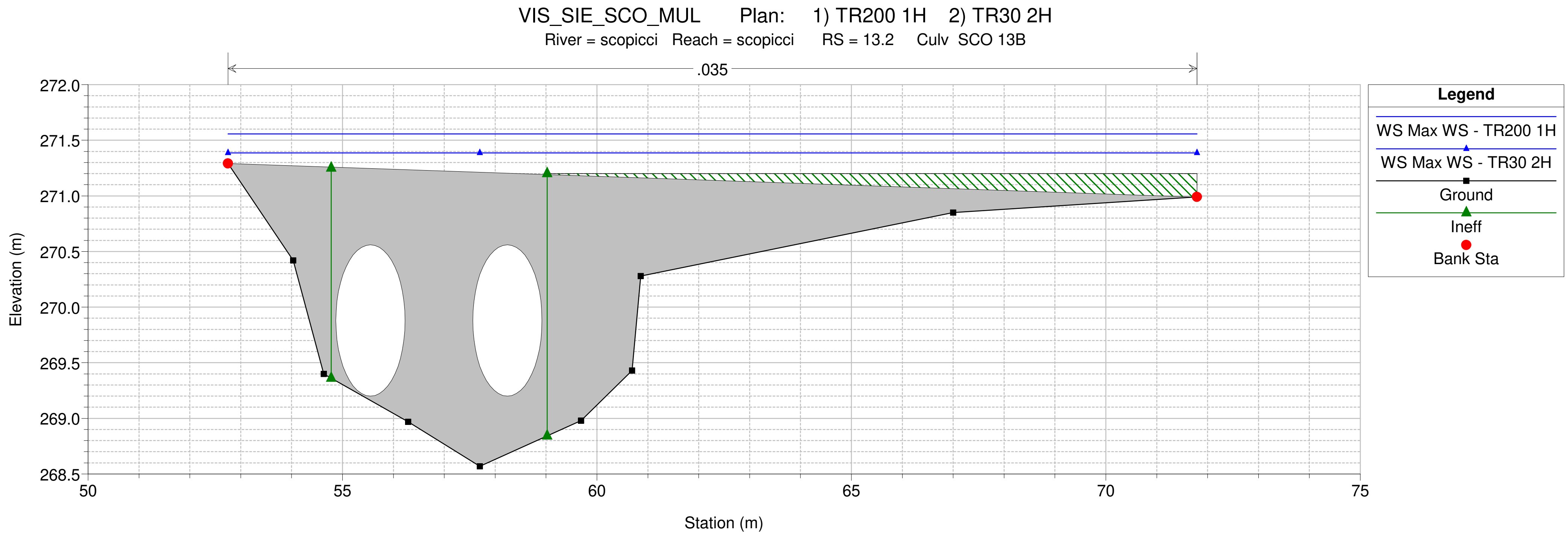

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 14 SCO 014
.035
Elevation (m)
272.0
271.5
271.0
270.5
270.0
269.5
269.0
12
14
16
18
20
22
24
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta



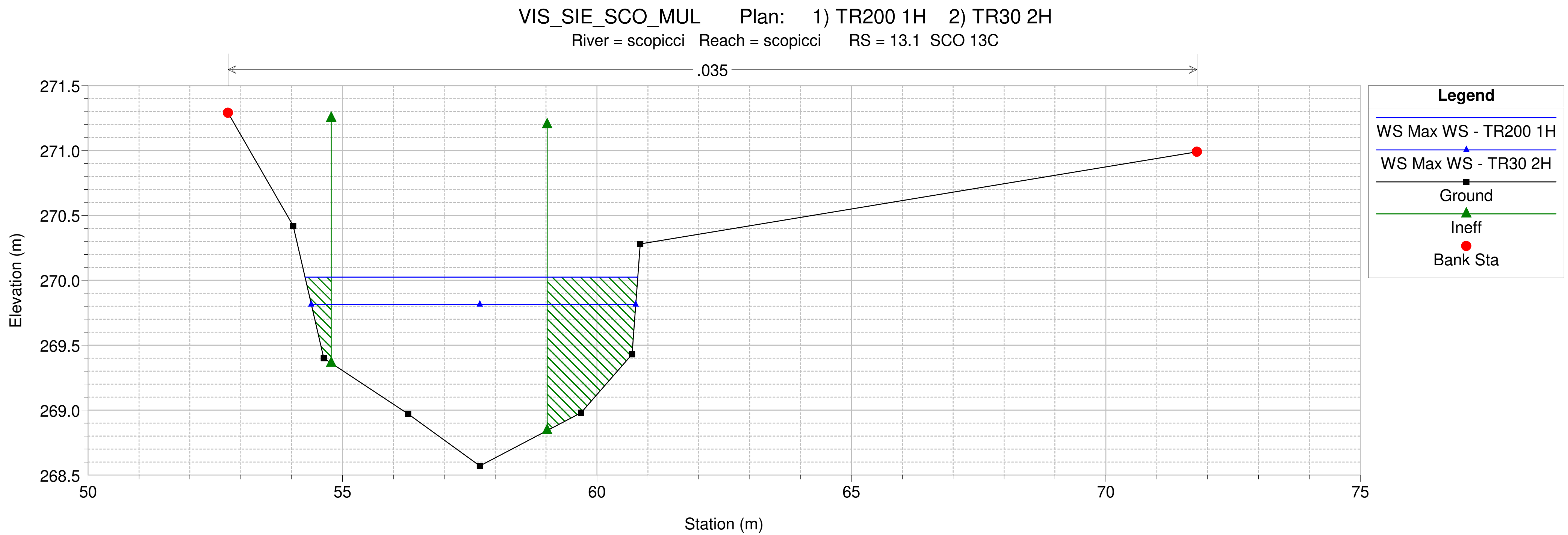
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 13.3 SCO 013_D
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
272.0
271.5
271.0
270.5
270.0
269.5
269.0
268.5
50
55
60
65
70
75
Station (m)



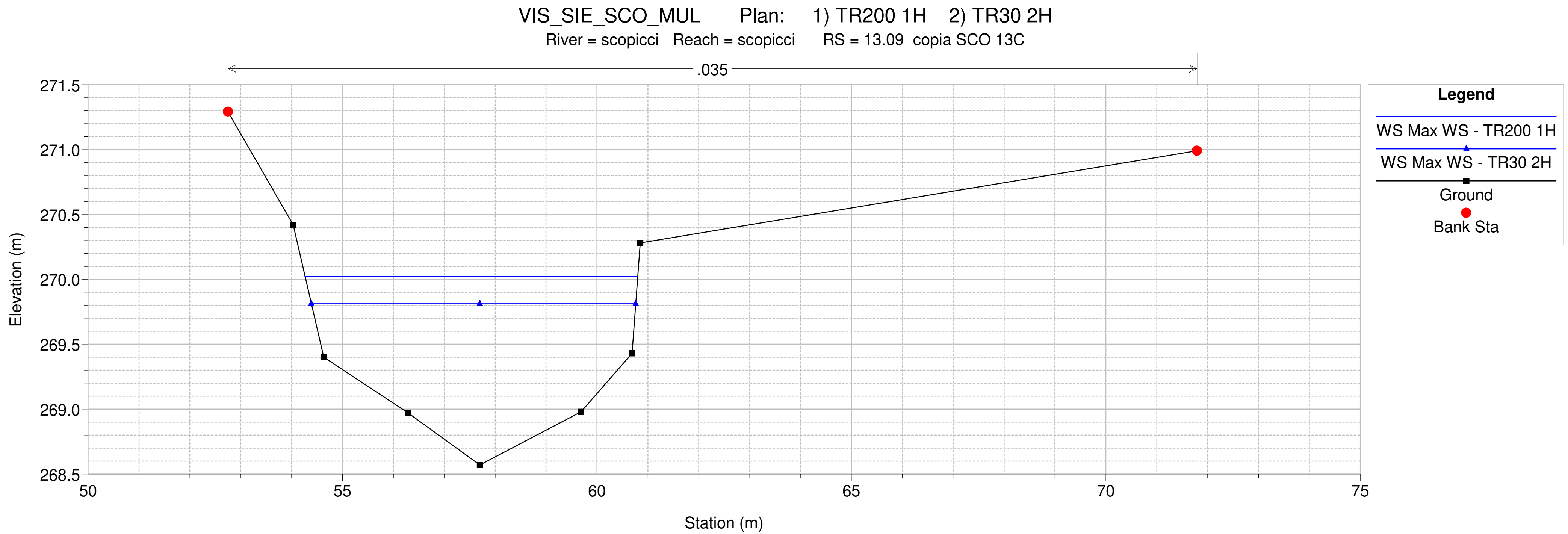
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 13.25 SCO 13C
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta
Elevation (m)
272.0
271.5
271.0
270.5
270.0
269.5
269.0
268.5
50
55
60
65
70
75
Station (m)



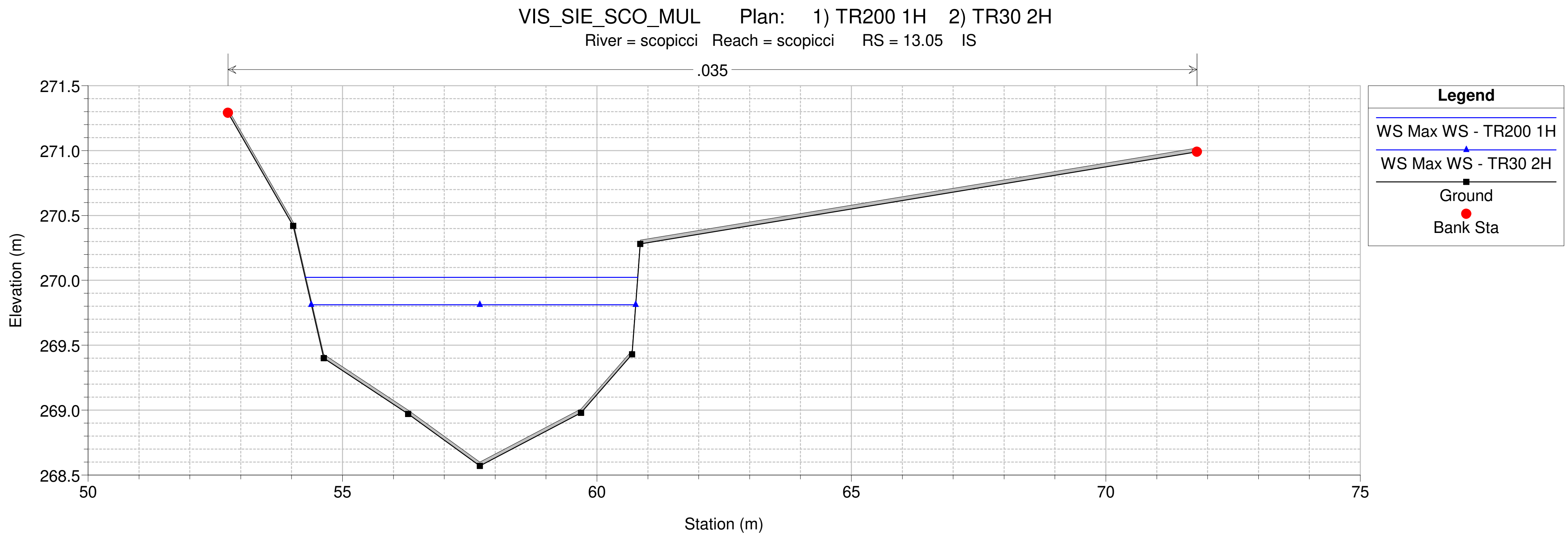
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 13.2 Culv SCO 13B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta



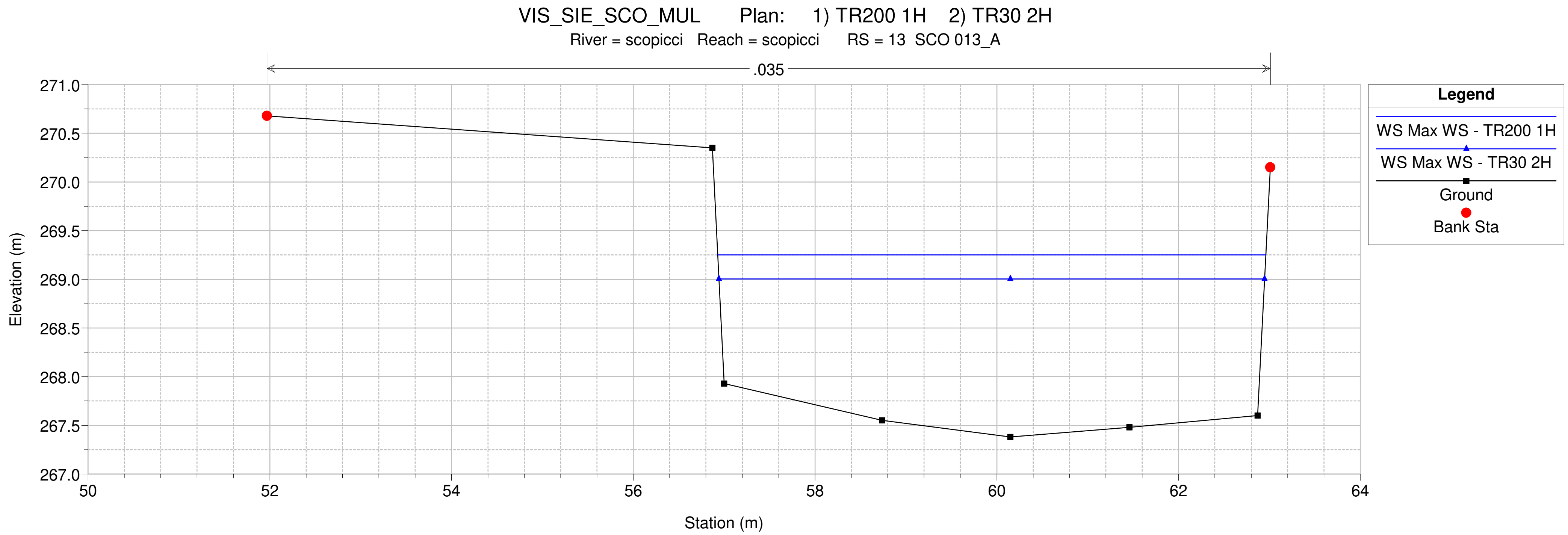
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 13.1 SCO 13C
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

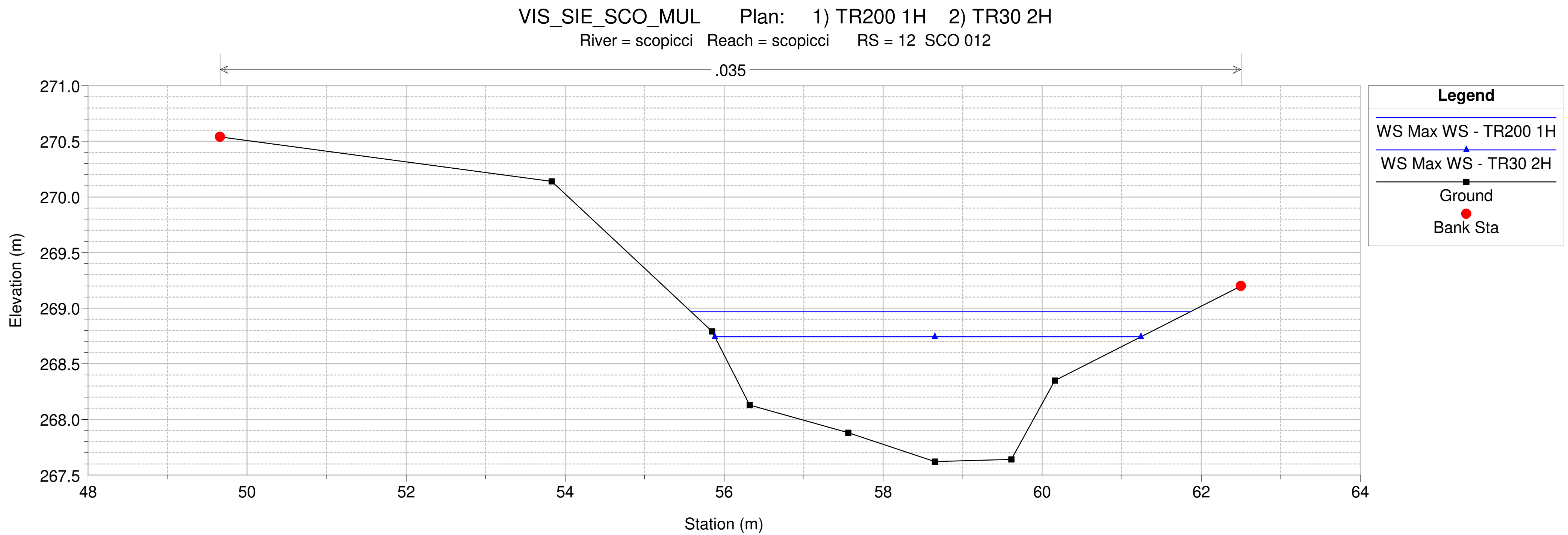


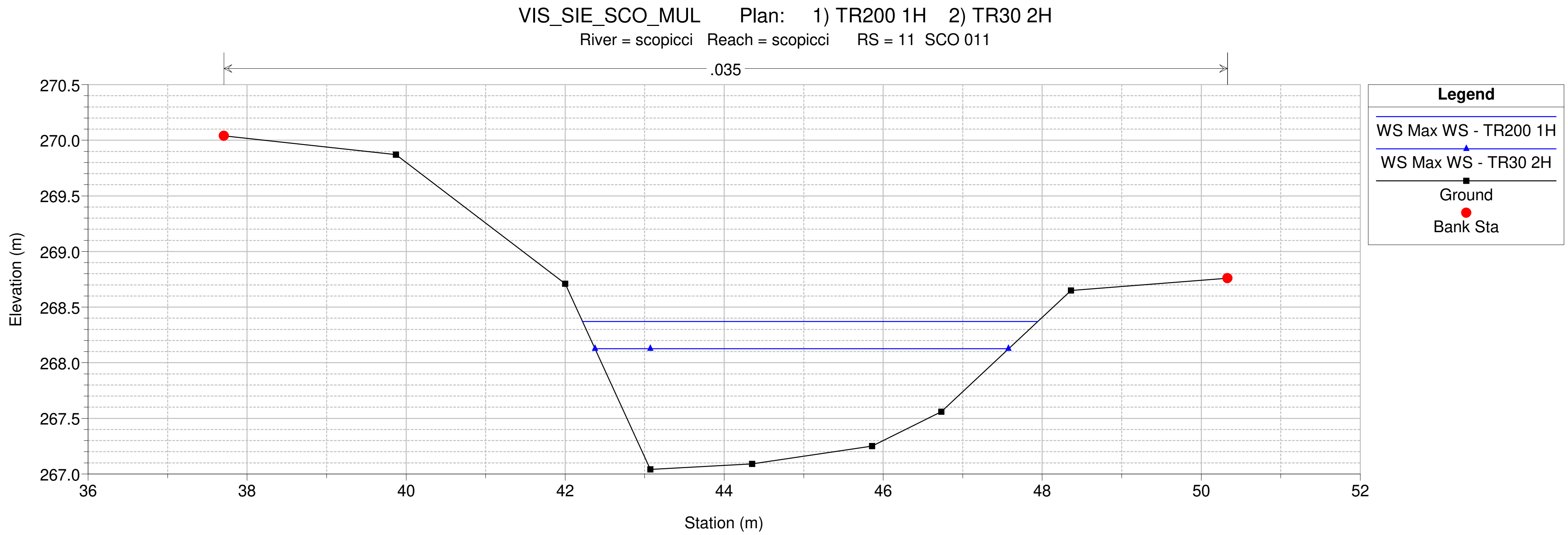
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 13.09 copia SCO 13C
.035
Elevation (m)
Station (m)
271.5
271.0
270.5
270.0
269.5
269.0
268.5
50
55
60
65
70
75
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

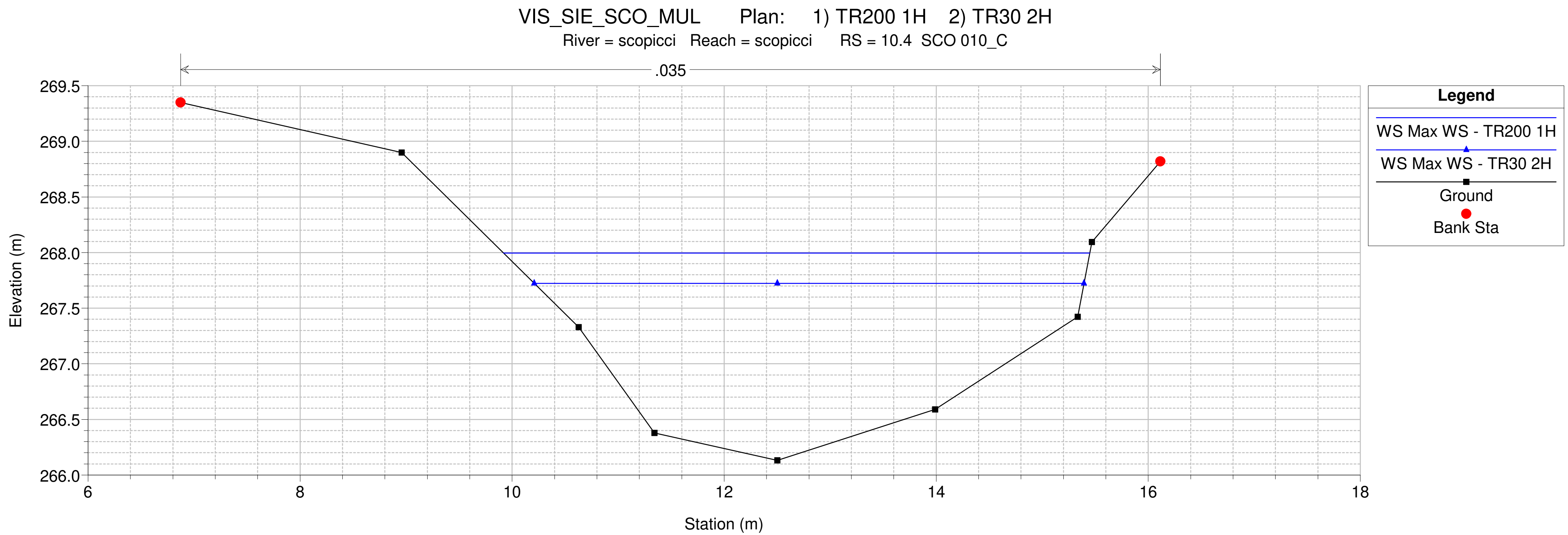


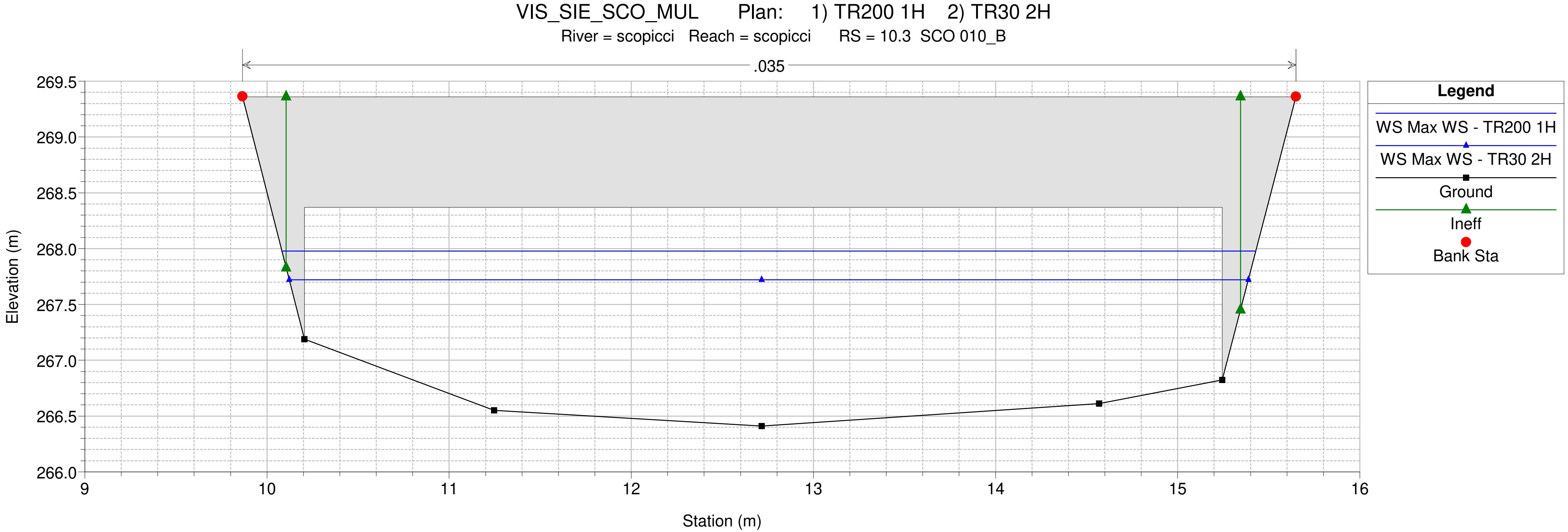
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 13.05 IS
.035
Elevation (m)
Station (m)
271.5
271.0
270.5
270.0
269.5
269.0
268.5
50
55
60
65
70
75
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

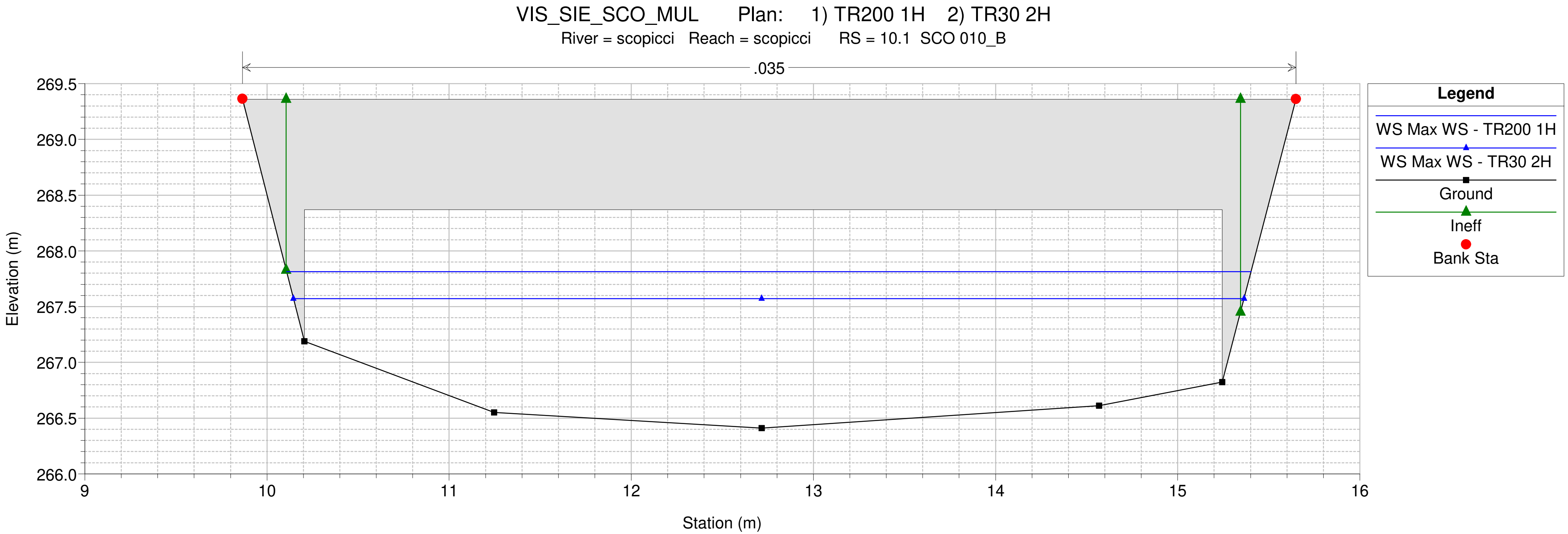

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 13 SCO 013_A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

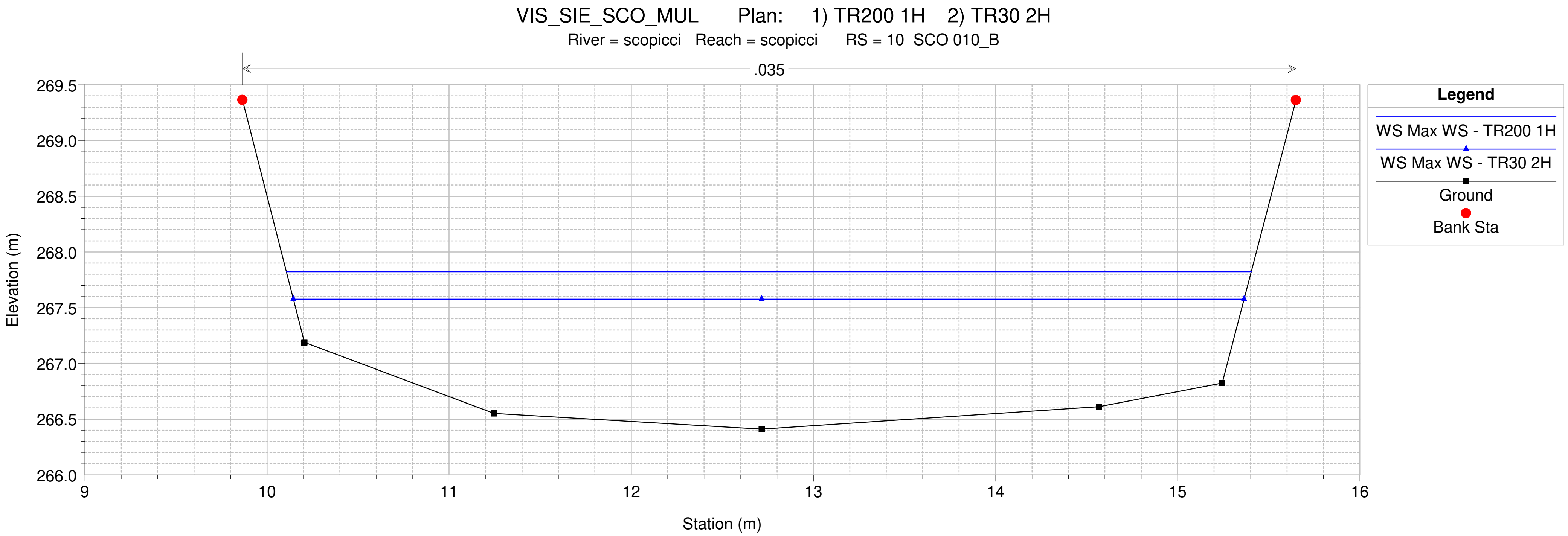

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 12 SCO 012
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

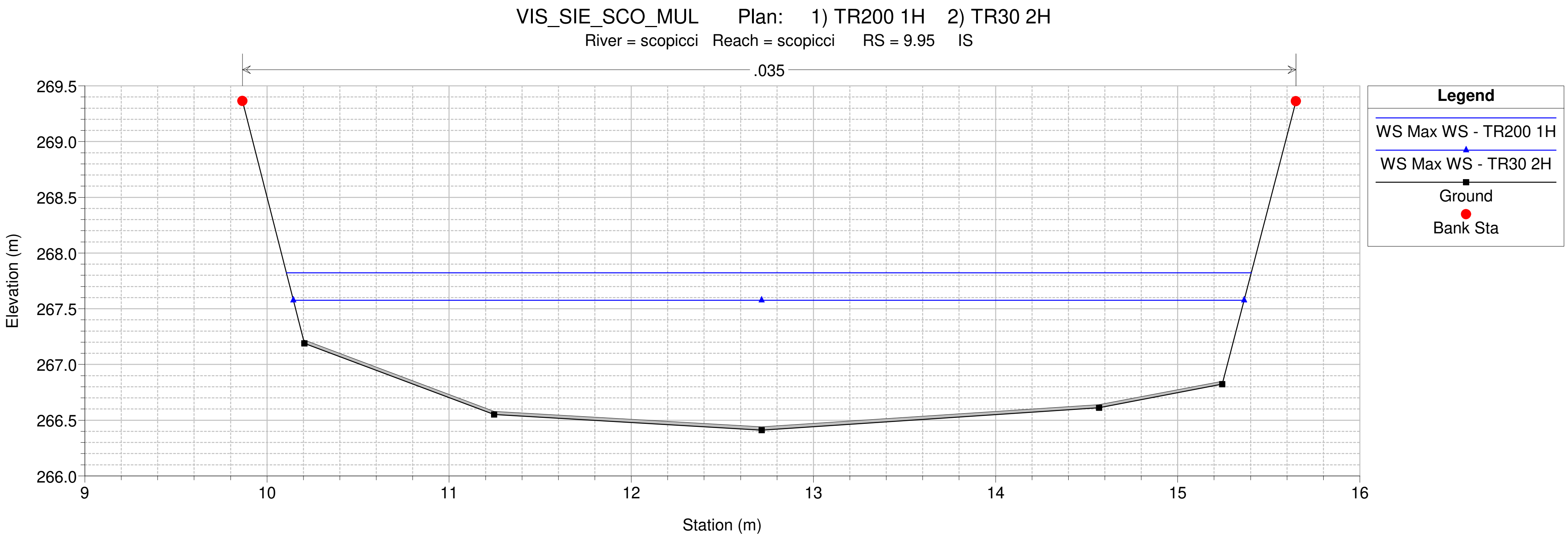

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 11 SCO 011
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
270.5
270.0
269.5
269.0
268.5
268.0
267.5
267.0
36
38
40
42
44
46
48
50
52

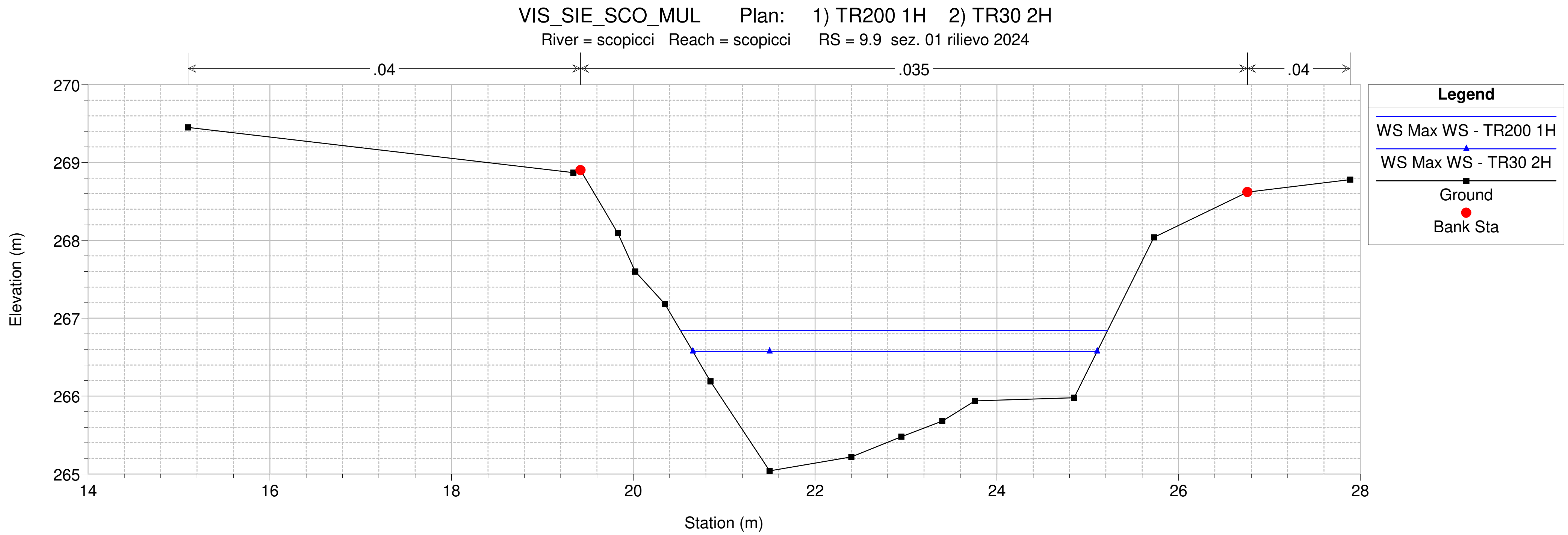

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 10.4 SCO 010_C
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
269.5
269.0
268.5
268.0
267.5
267.0
266.5
266.0
6
8
10
12
14
16
18

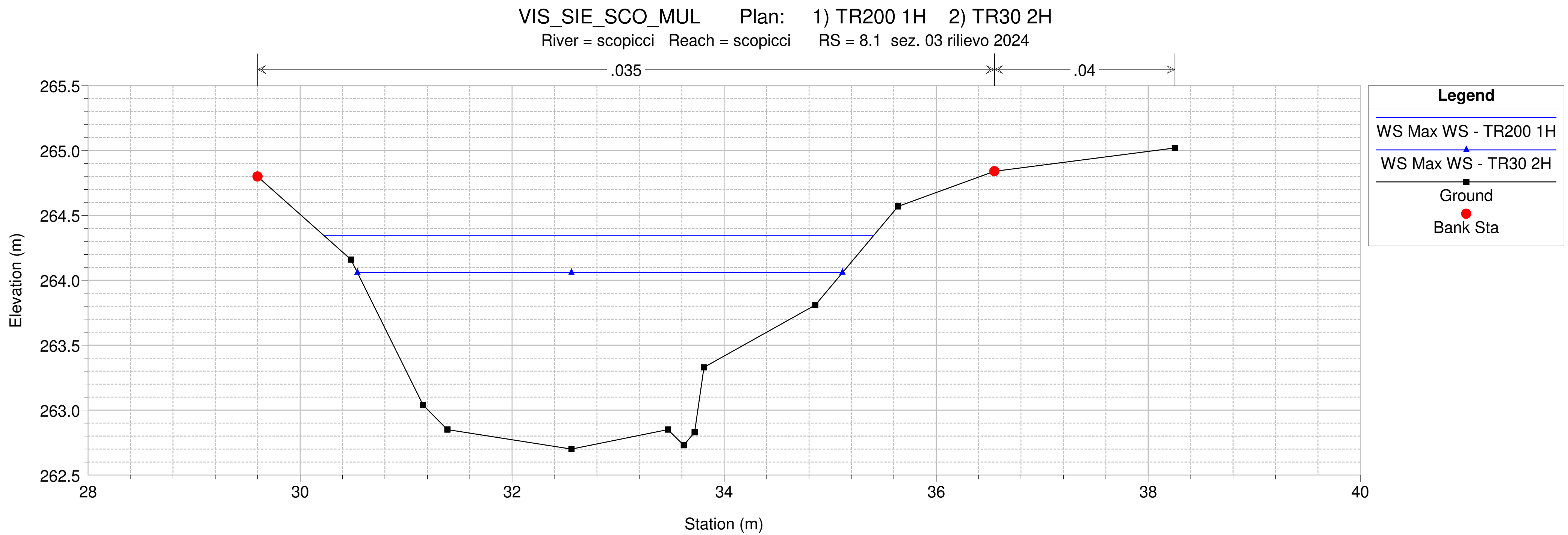

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 10.3 SCO 010_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

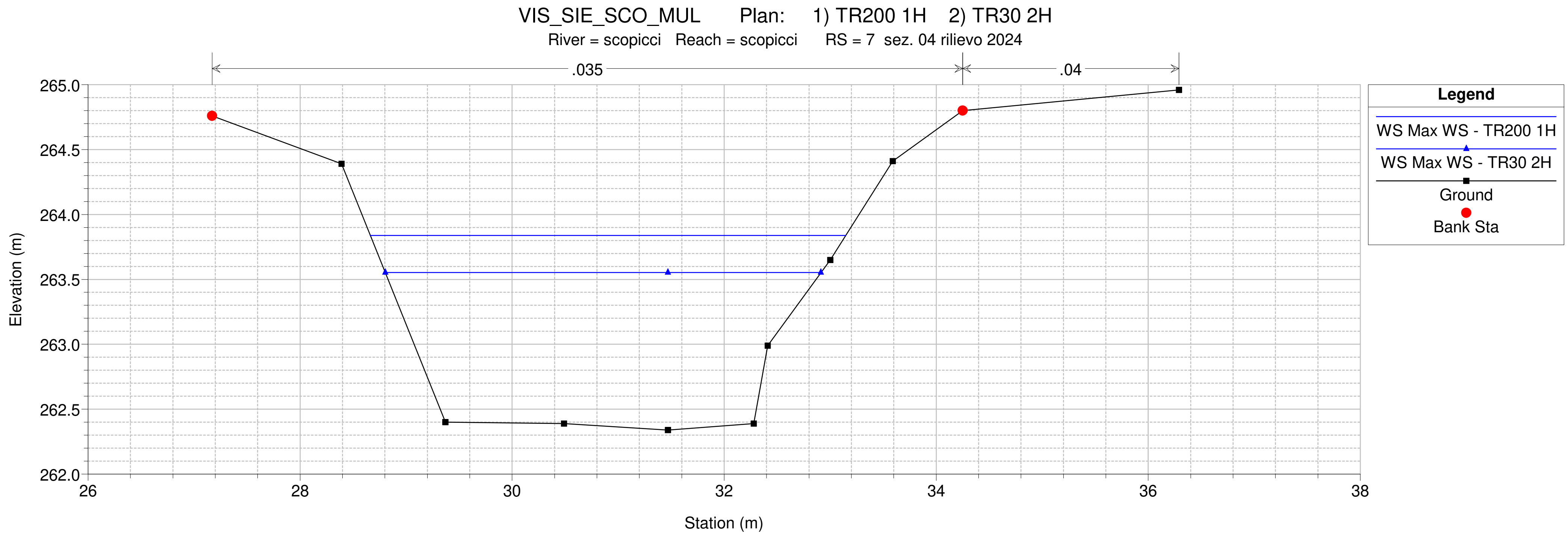

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 10.1 SCO 010_B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

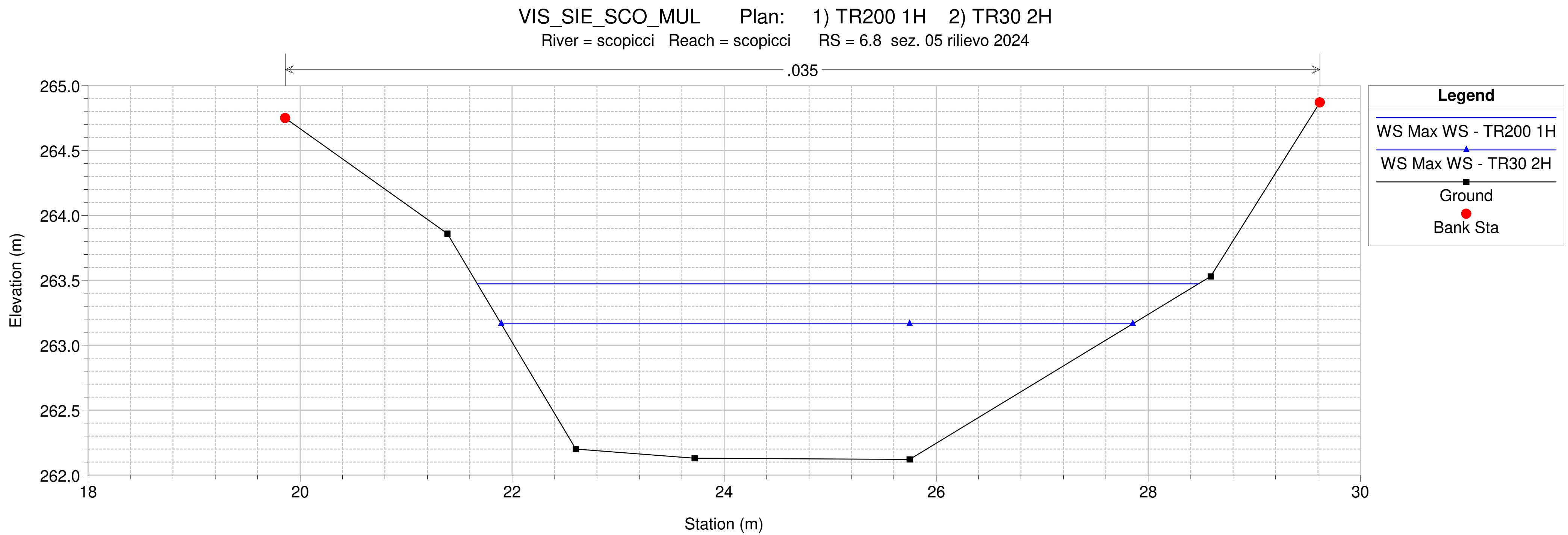

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 10 SCO 010_B
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
269.5
269.0
268.5
268.0
267.5
267.0
266.5
266.0
9
10
11
12
13
14
15
16

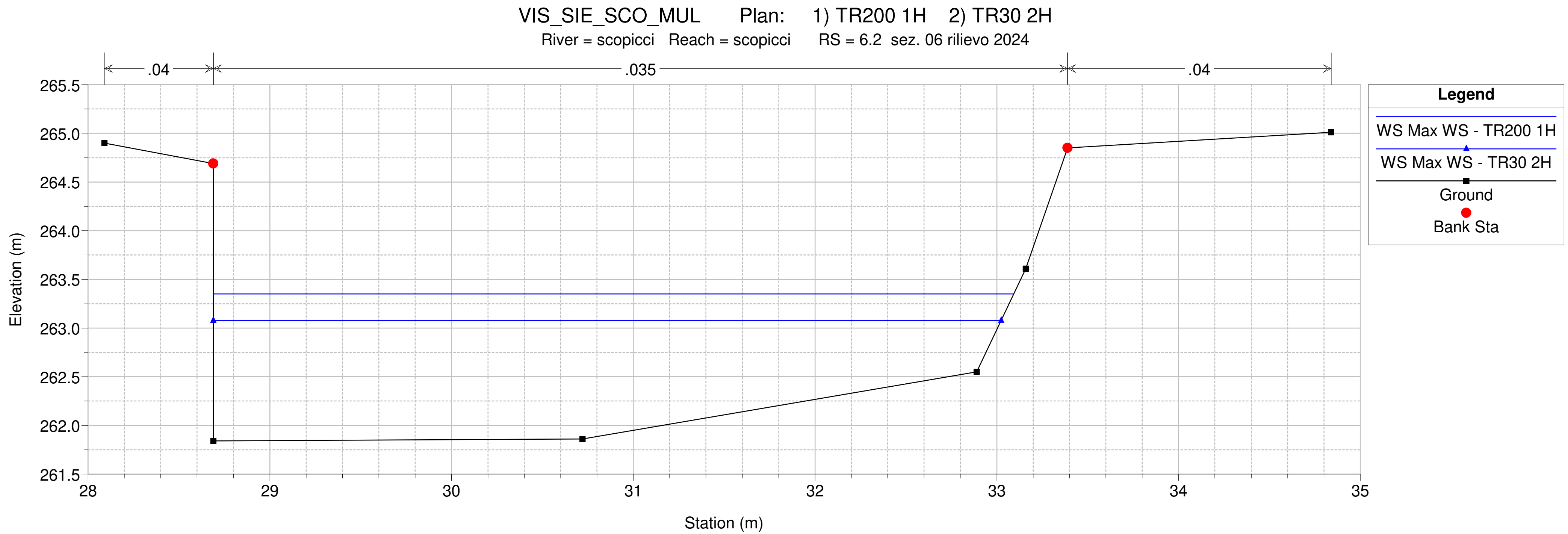

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 9.95 IS
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
269.5
269.0
268.5
268.0
267.5
267.0
266.5
266.0
9
10
11
12
13
14
15
16

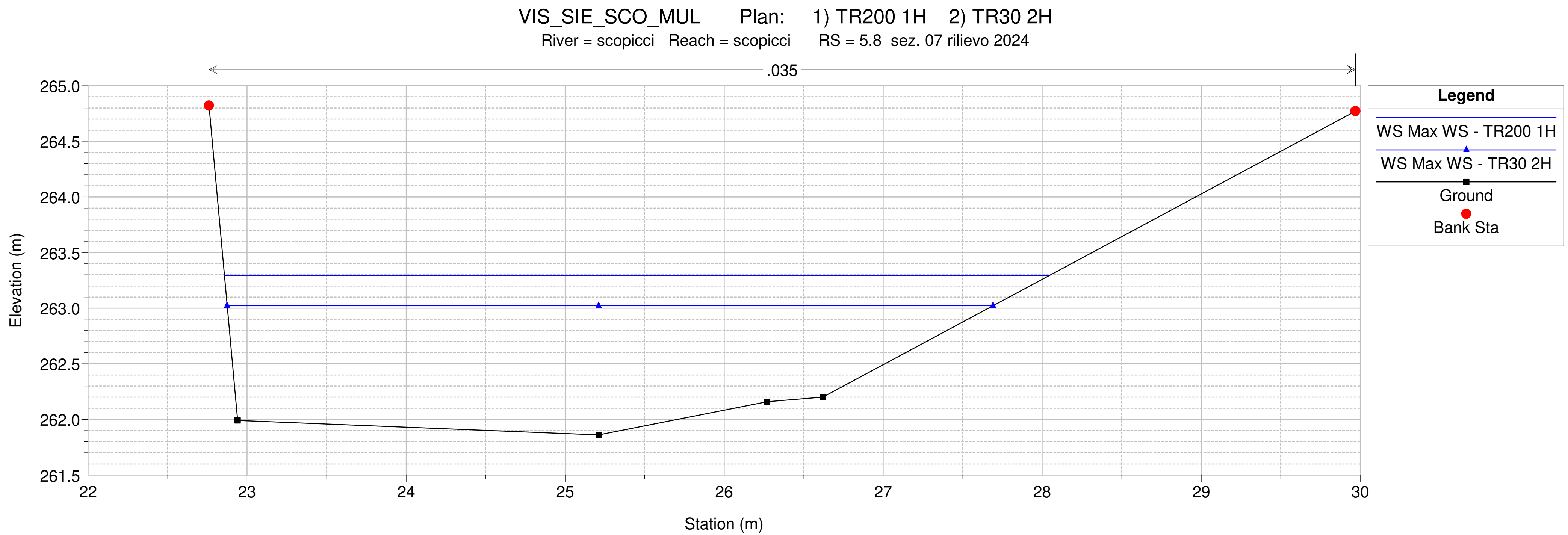

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 9.9 sez. 01 rilievo 2024
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

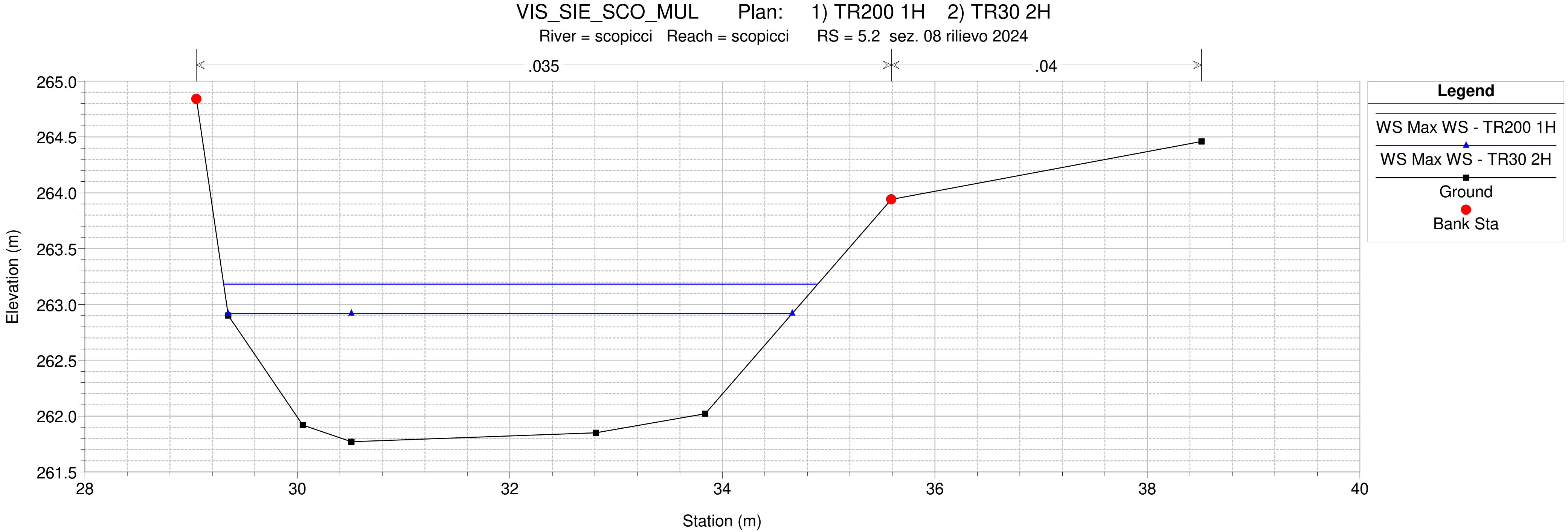

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 8.1 sez. 03 rilievo 2024
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 7 sez. 04 rilievo 2024
.035
.04
Elevation (m)
265.0
264.5
264.0
263.5
263.0
262.5
262.0
26
28
30
32
34
36
38
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

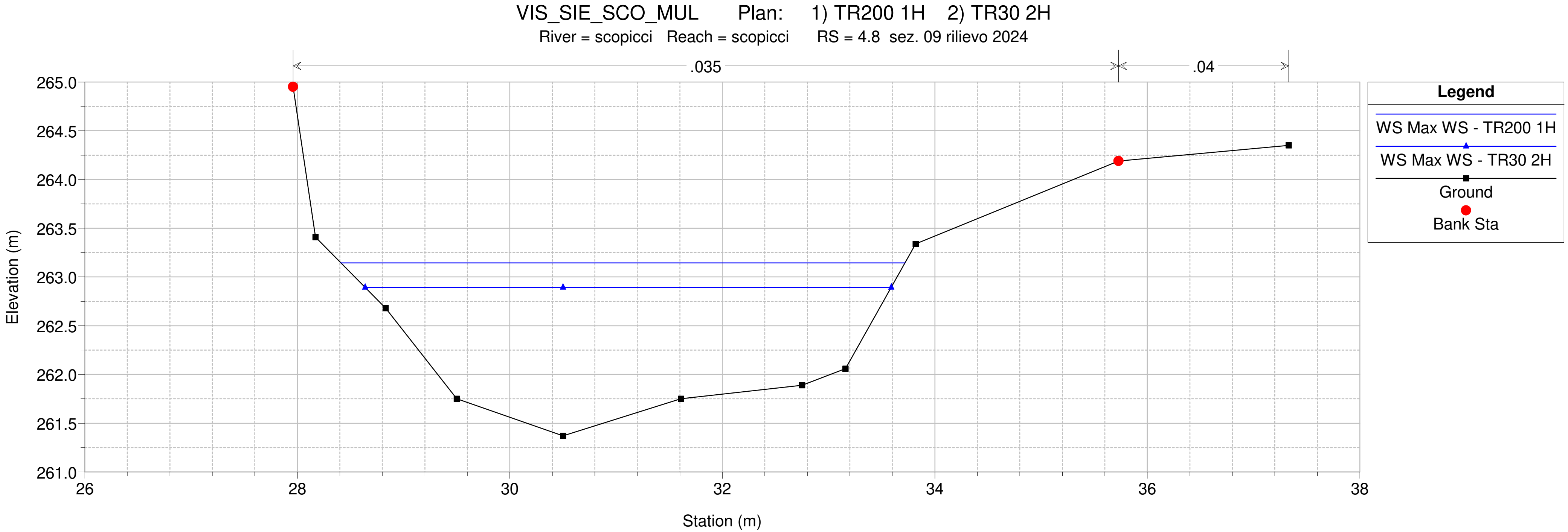

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 6.8 sez. 05 rilievo 2024
.035
Elevation (m)
265.0
264.5
264.0
263.5
263.0
262.5
262.0
18
20
22
24
26
28
30
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 6.2 sez. 06 rilievo 2024
.04
.035
.04
265.5
265.0
264.5
264.0
263.5
263.0
262.5
262.0
261.5
Elevation (m)
28
29
30
31
32
33
34
35
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

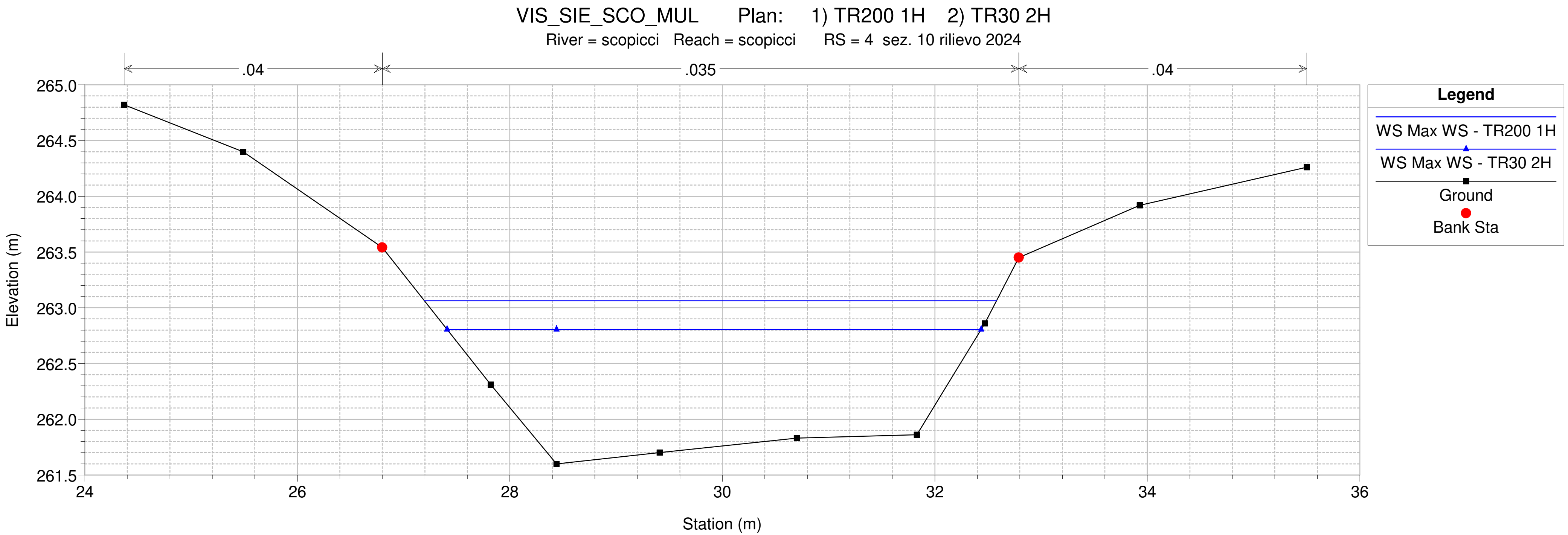

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 5.8 sez. 07 rilievo 2024
.035
265.0
264.5
264.0
263.5
263.0
262.5
262.0
261.5
Elevation (m)
22
23
24
25
26
27
28
29
30
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta



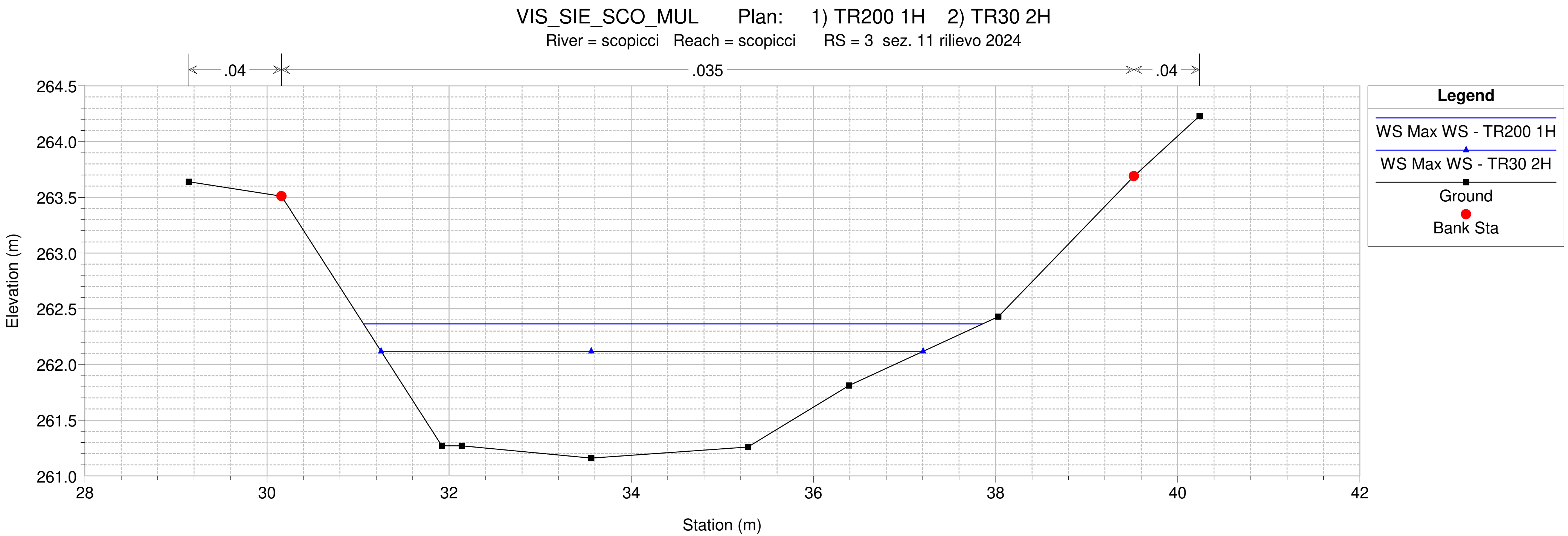
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 5.2 sez. 08 rilievo 2024
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta



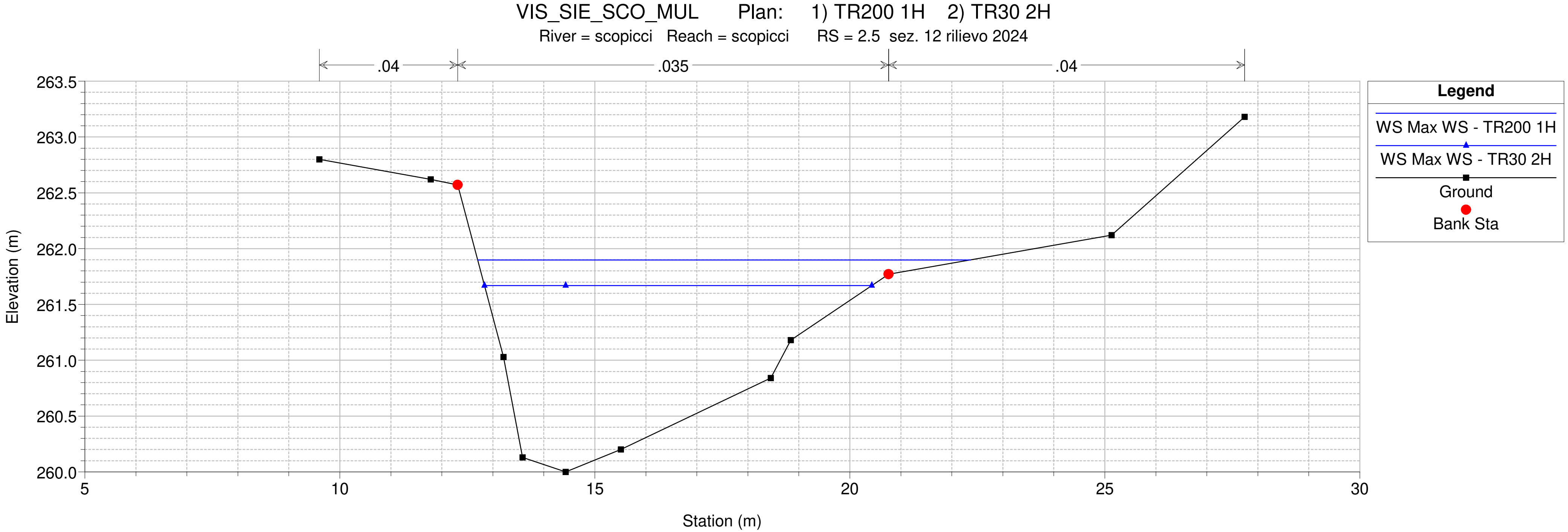
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 4.8 sez. 09 rilievo 2024
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta

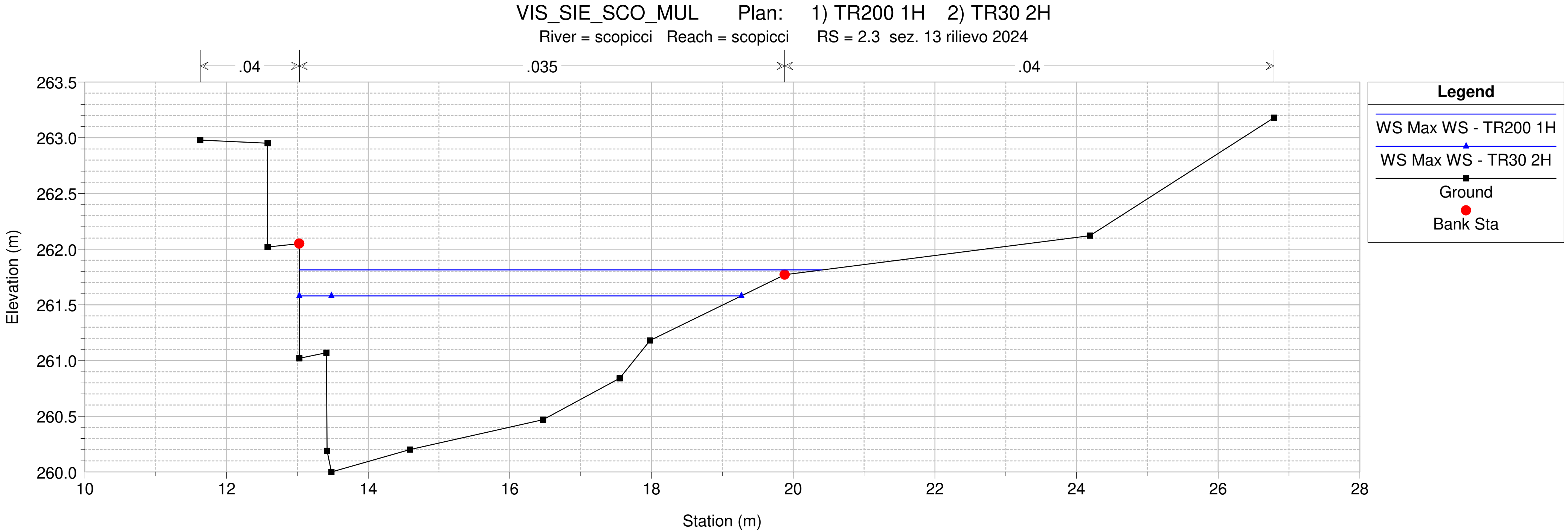


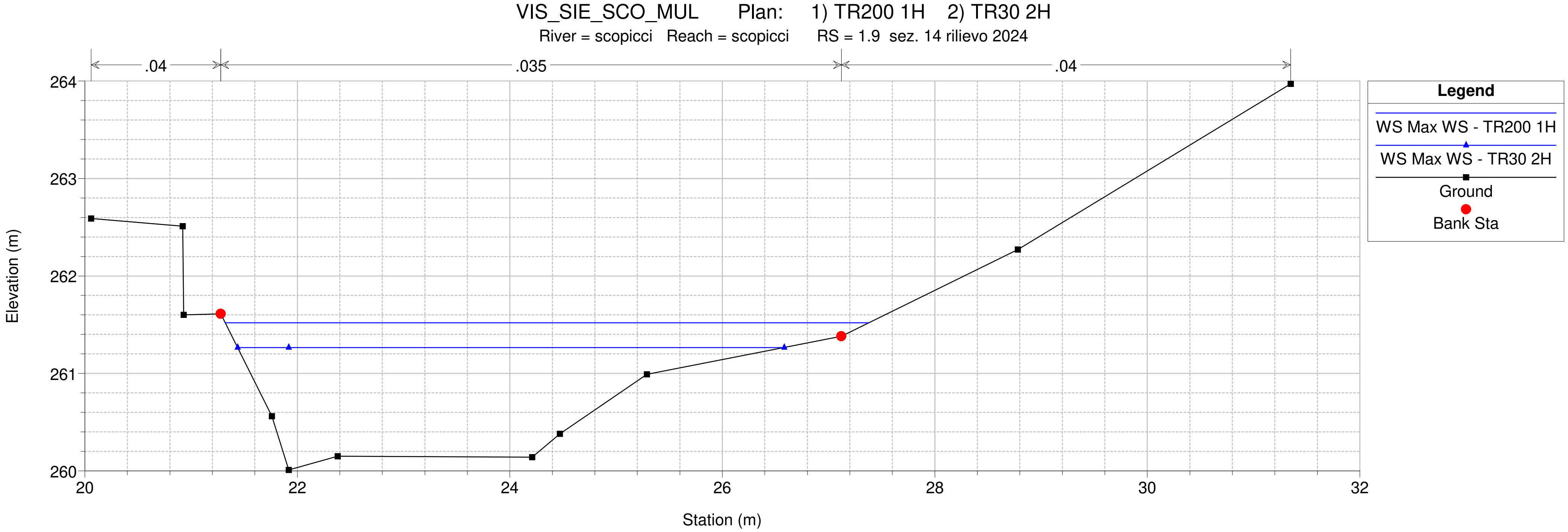
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 4 sez. 10 rilievo 2024
.04
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265.0
264.5
264.0
263.5
263.0
262.5
262.0
261.5
24
26
28
30
32
34
36

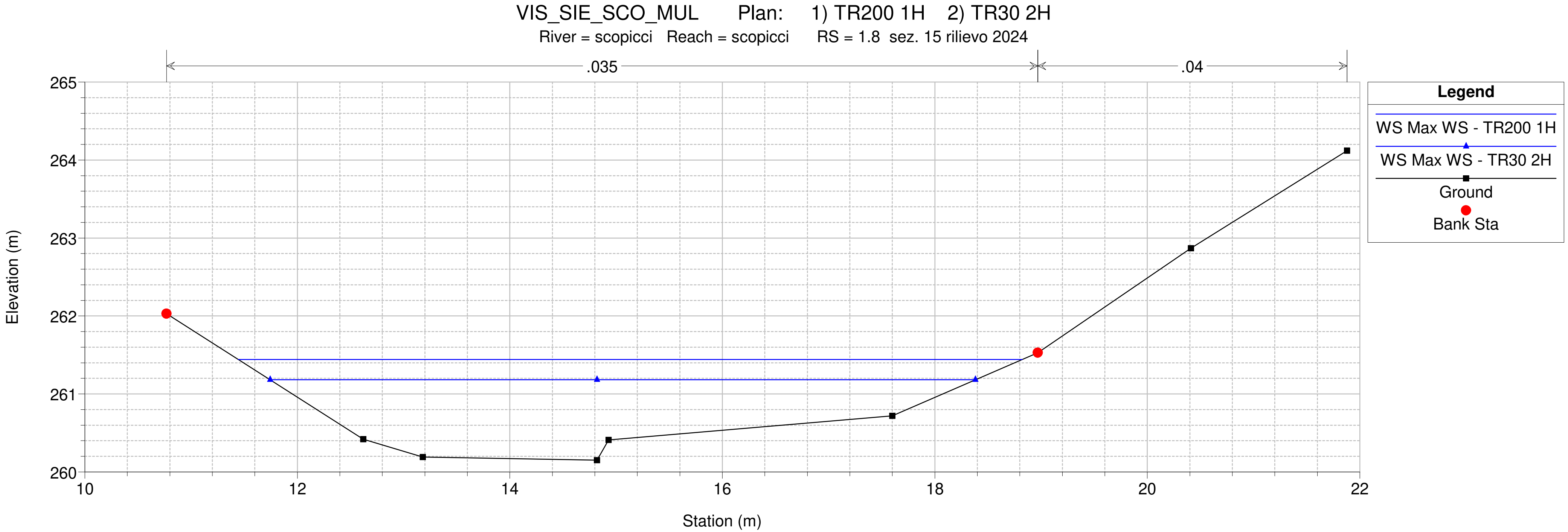


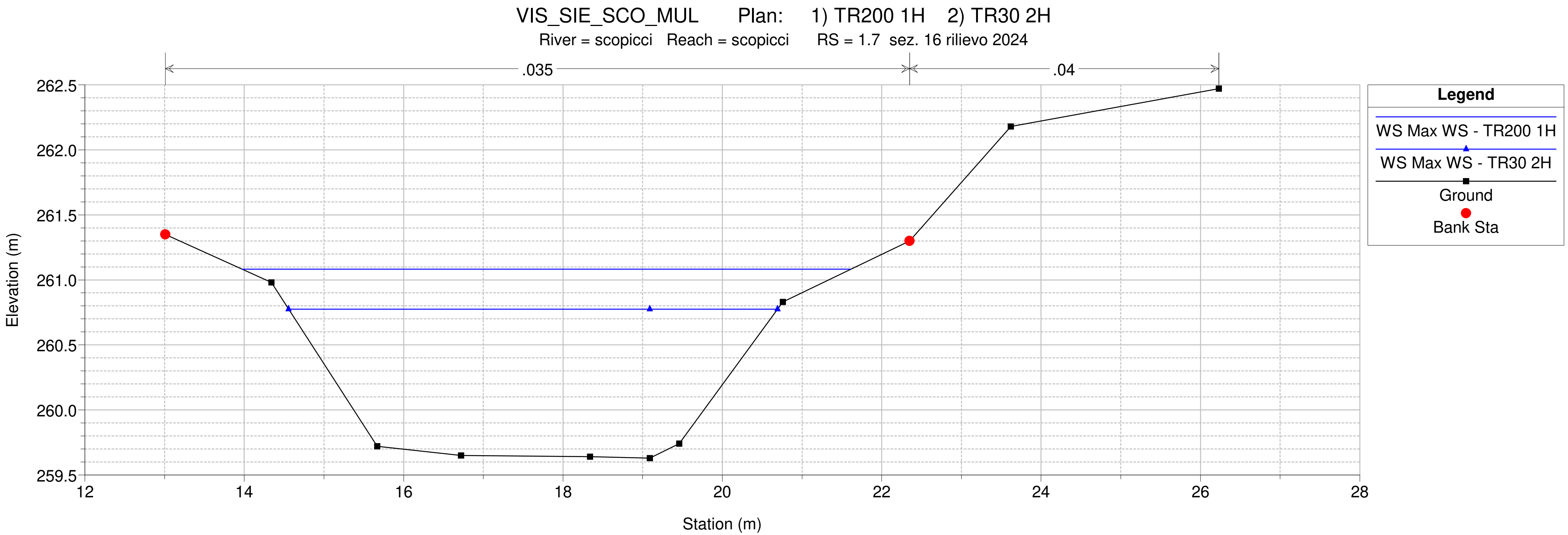
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 3 sez. 11 rilievo 2024
.04
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
264.5
264.0
263.5
263.0
262.5
262.0
261.5
261.0
28
30
32
34
36
38
40
42

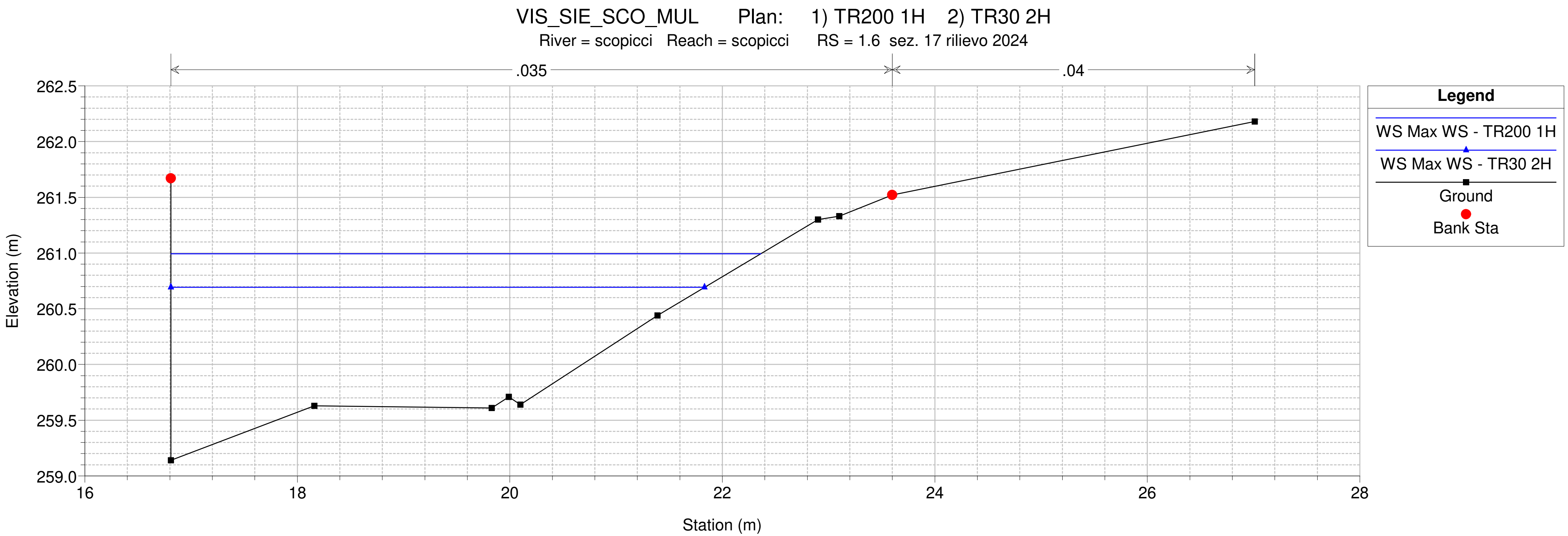

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 2.5 sez. 12 rilievo 2024
.04
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
263.5
263.0
262.5
262.0
261.5
261.0
260.5
260.0
5
10
15
20
25
30

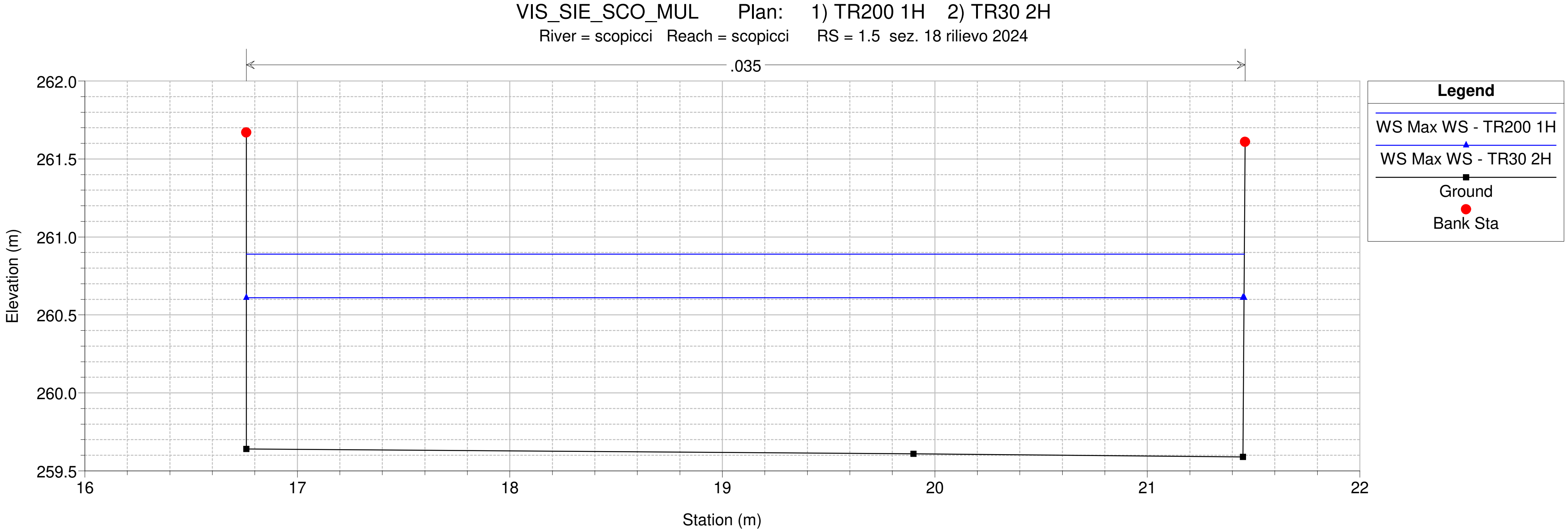

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 2.3 sez. 13 rilievo 2024
.04
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
263.5
263.0
262.5
262.0
261.5
261.0
260.5
260.0
10
12
14
16
18
20
22
24
26
28


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.9 sez. 14 rilievo 2024
.04
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
264
263
262
261
260
20
22
24
26
28
30
32

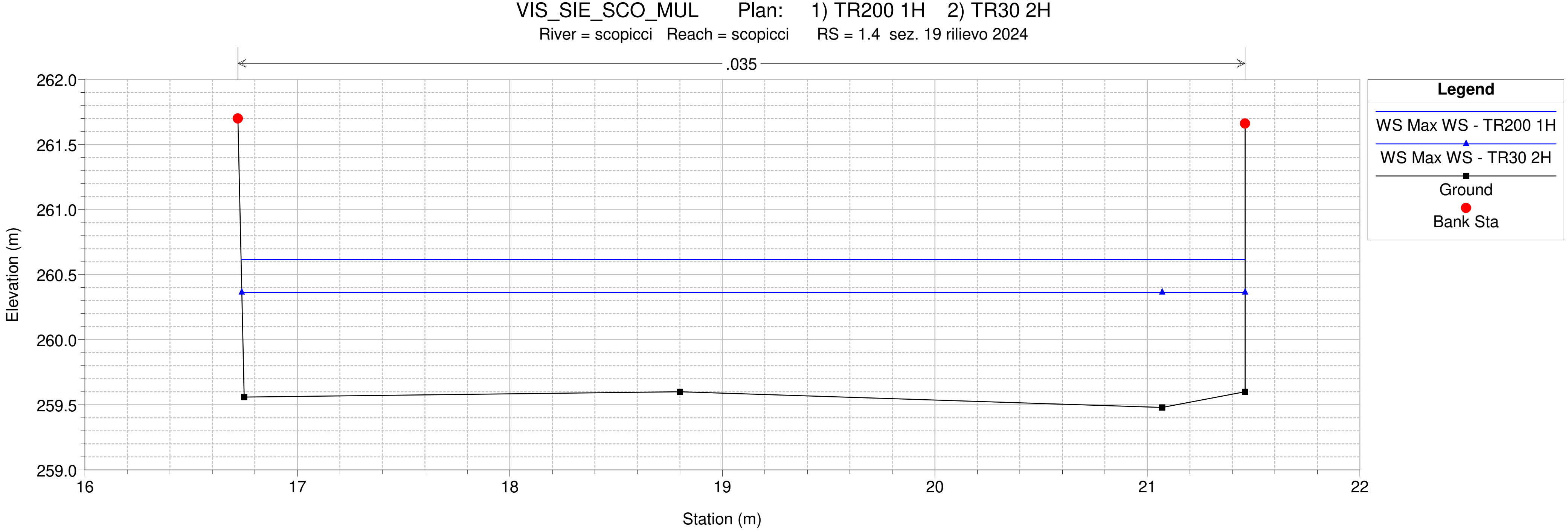

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.8 sez. 15 rilievo 2024
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265
264
263
262
261
260
10
12
14
16
18
20
22


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.7 sez. 16 rilievo 2024
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
262.5
262.0
261.5
261.0
260.5
260.0
259.5
12
14
16
18
20
22
24
26
28

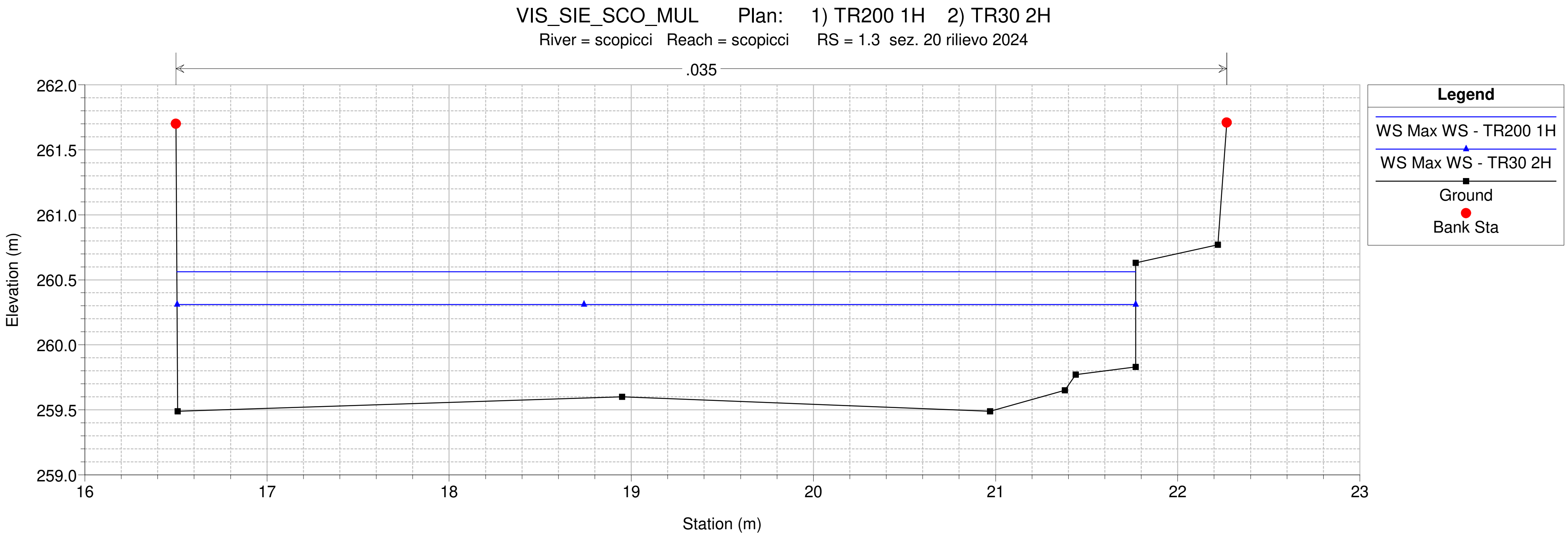

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.6 sez. 17 rilievo 2024
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
262.5
262.0
261.5
261.0
260.5
260.0
259.5
259.0
16
18
20
22
24
26
28

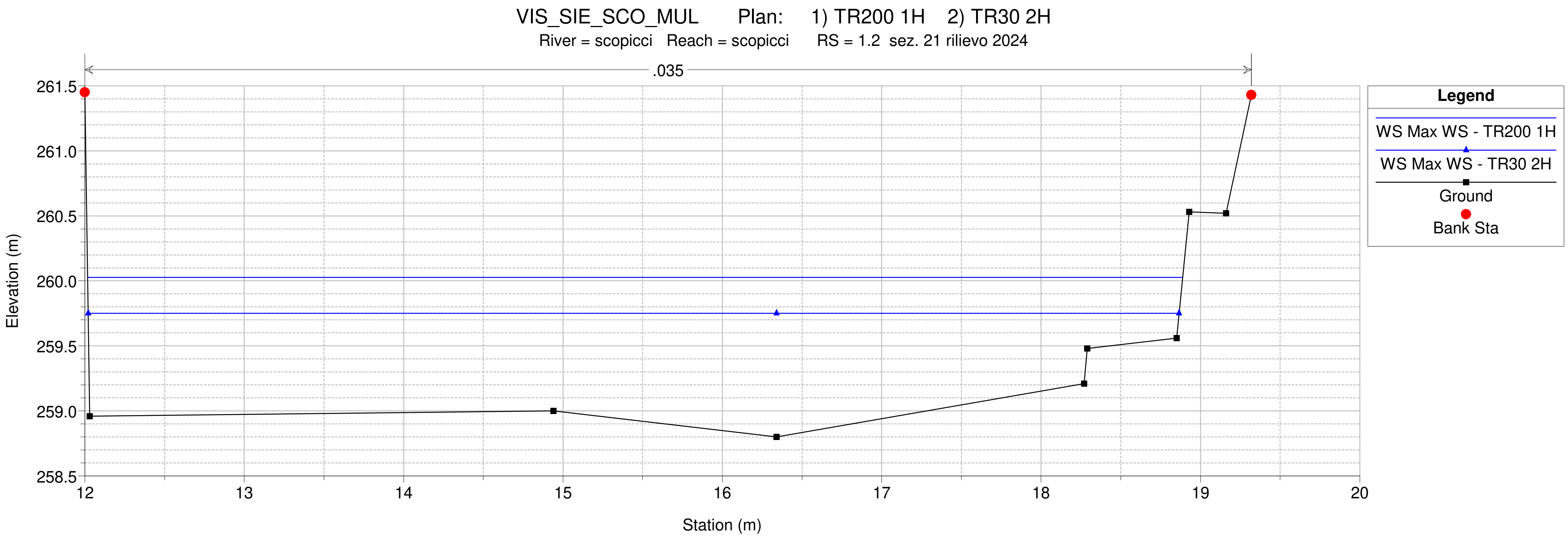


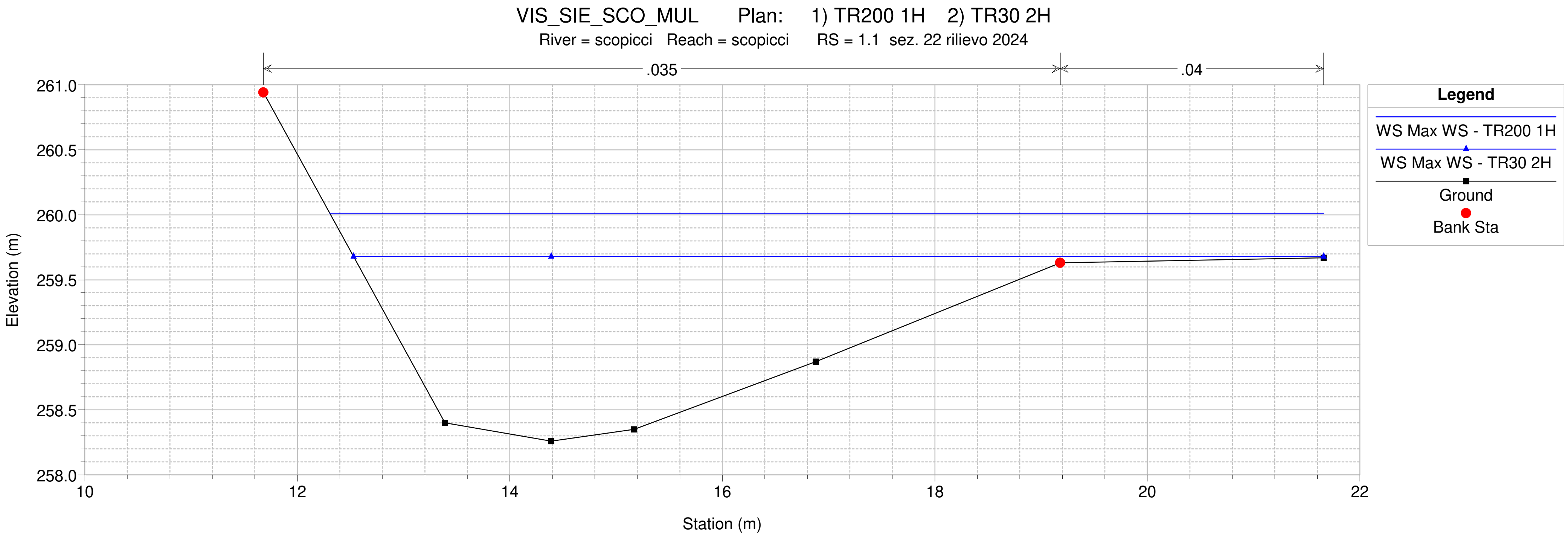
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.5 sez. 18 rilievo 2024
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
262.0
261.5
261.0
260.5
260.0
259.5
16
17
18
19
20
21
22
Station (m)



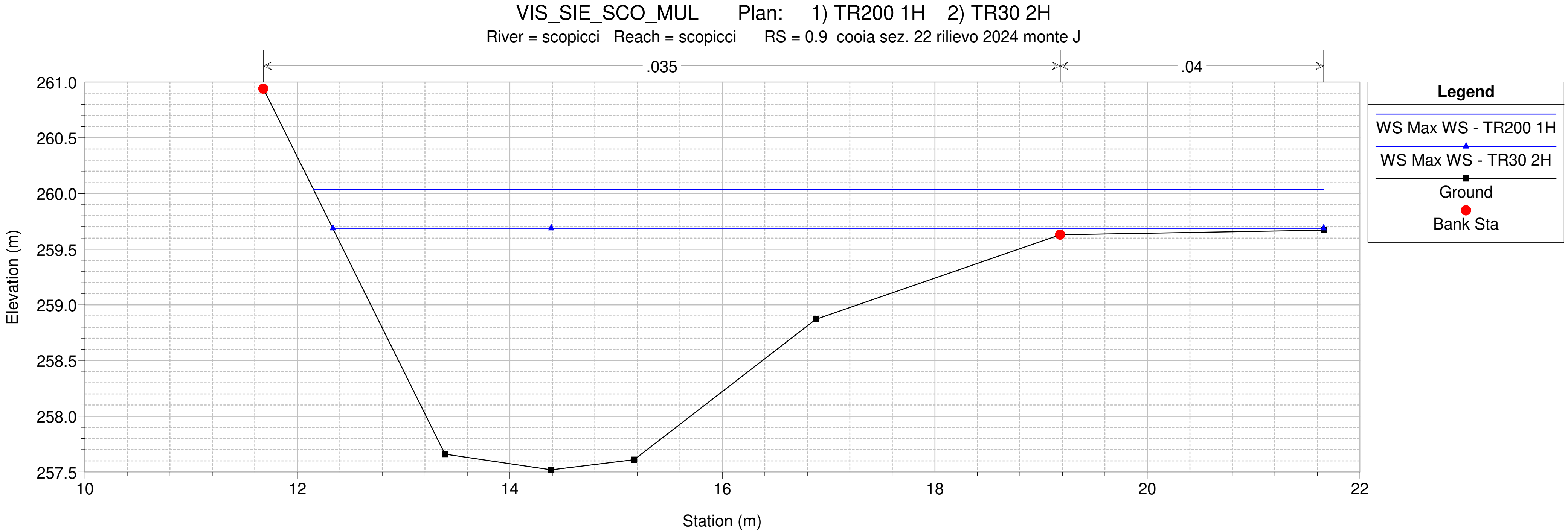
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.4 sez. 19 rilievo 2024
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
262.0
261.5
261.0
260.5
260.0
259.5
259.0
16
17
18
19
20
21
22
Station (m)


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.3 sez. 20 rilievo 2024
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
262.0
261.5
261.0
260.5
260.0
259.5
259.0
16
17
18
19
20
21
22
23


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.2 sez. 21 rilievo 2024
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
261.5
261.0
260.5
260.0
259.5
259.0
258.5
12
13
14
15
16
17
18
19
20



VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 1.1 sez. 22 rilievo 2024
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
261.0
260.5
260.0
259.5
259.0
258.5
258.0
10
12
14
16
18
20
22



VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 2H
River = scopicci Reach = scopicci RS = 0.9 cooia sez. 22 rilievo 2024 monte J
.035
.04
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
261.0
260.5
260.0
259.5
259.0
258.5
258.0
257.5
10
12
14
16
18
20
22

HEC-RAS River: scopicci Reach: scopicci Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
scopicci	20	Max WS	TR200 2H	18.26	278.38	279.62	279.74	280.23	0.021548	3.46	5.27	6.23	1.20
scopicci	20	Max WS	TR200 1H	20.34	278.38	279.68	279.81	280.34	0.021698	3.59	5.66	6.29	1.21
scopicci	20	Max WS	TR30 2H	13.11	278.38	279.45	279.54	279.94	0.021242	3.09	4.24	6.06	1.18
scopicci	20	Max WS	TR30 1H	7.73	278.38	279.25	279.30	279.58	0.020660	2.57	3.01	5.77	1.14
scopicci	19.99	Max WS	TR200 2H	18.26	278.38	279.62	279.74	280.23	0.021709	3.47	5.26	6.22	1.21
scopicci	19.99	Max WS	TR200 1H	20.34	278.38	279.68	279.81	280.34	0.021870	3.60	5.64	6.28	1.21
scopicci	19.99	Max WS	TR30 2H	13.11	278.38	279.45	279.54	279.94	0.021438	3.10	4.23	6.05	1.18
scopicci	19.99	Max WS	TR30 1H	7.73	278.38	279.24	279.30	279.58	0.020902	2.58	3.00	5.76	1.14
scopicci	19.89			Lat Struct									
scopicci	19.88			Lat Struct									
scopicci	19	Max WS	TR200 2H	18.26	276.73	278.06	278.10	278.40	0.017537	2.60	7.03	11.70	1.07
scopicci	19	Max WS	TR200 1H	20.34	276.73	278.12	278.16	278.47	0.017549	2.62	7.75	12.77	1.07
scopicci	19	Max WS	TR30 2H	13.11	276.73	277.90	277.90	278.20	0.015210	2.43	5.39	8.81	0.99
scopicci	19	Max WS	TR30 1H	7.73	276.73	277.66	277.59	277.89	0.012066	2.11	3.66	6.14	0.87
scopicci	18	Max WS	TR200 2H	16.49	275.51	277.22	277.23	277.82	0.020690	3.46	4.77	4.03	1.01
scopicci	18	Max WS	TR200 1H	18.84	275.51	277.28	277.34	278.00	0.023384	3.75	5.02	4.03	1.07
scopicci	18	Max WS	TR30 2H	12.12	275.51	277.08	277.00	277.50	0.015989	2.88	4.21	4.03	0.90
scopicci	18	Max WS	TR30 1H	7.72	275.51	276.76	276.75	277.11	0.018656	2.64	2.93	4.03	0.99
scopicci	17	Max WS	TR200 2H	11.54	274.28	275.43	275.66	276.26	0.037043	4.03	2.87	3.63	1.45
scopicci	17	Max WS	TR200 1H	13.20	274.28	275.51	275.75	276.40	0.037513	4.19	3.15	3.71	1.45
scopicci	17	Max WS	TR30 2H	10.04	274.28	275.36	275.56	276.10	0.035366	3.81	2.64	3.55	1.41
scopicci	17	Max WS	TR30 1H	7.31	274.28	275.22	275.37	275.82	0.033733	3.42	2.13	3.39	1.38
scopicci	16	Max WS	TR200 2H	17.66	271.75	272.82	272.89	273.29	0.018229	3.04	5.81	7.84	1.13
scopicci	16	Max WS	TR200 1H	19.32	271.75	272.87	272.94	273.36	0.018175	3.12	6.20	8.03	1.13
scopicci	16	Max WS	TR30 2H	13.02	271.75	272.66	272.72	273.06	0.018725	2.81	4.63	7.23	1.12
scopicci	16	Max WS	TR30 1H	7.27	271.75	272.42	272.46	272.72	0.019860	2.40	3.03	6.30	1.11
scopicci	15	Max WS	TR200 2H	18.31	270.28	271.64	271.51	271.97	0.009477	2.54	7.22	7.44	0.82
scopicci	15	Max WS	TR200 1H	20.11	270.28	271.62	271.57	272.03	0.012052	2.84	7.09	7.42	0.93
scopicci	15	Max WS	TR30 2H	13.40	270.28	271.42	271.33	271.71	0.010324	2.37	5.67	7.13	0.85
scopicci	15	Max WS	TR30 1H	7.22	270.28	271.05	271.03	271.31	0.014167	2.22	3.26	5.83	0.95
scopicci	14	Max WS	TR200 2H	17.00	269.37	271.50	270.46	271.59	0.001686	1.29	13.17	8.86	0.34
scopicci	14	Max WS	TR200 1H	20.22	269.37	271.51	270.57	271.63	0.002350	1.53	13.24	8.86	0.40
scopicci	14	Max WS	TR30 2H	13.63	269.37	271.37	270.33	271.44	0.001372	1.13	12.04	8.55	0.30
scopicci	14	Max WS	TR30 1H	7.08	269.37	270.87	270.05	270.91	0.000909	0.85	8.33	6.72	0.24
scopicci	13.3	Max WS	TR200 2H	16.75	268.57	271.54	269.88	271.56	0.000325	0.61	27.63	19.04	0.16
scopicci	13.3	Max WS	TR200 1H	18.59	268.57	271.60	269.95	271.62	0.000354	0.65	28.74	19.04	0.17
scopicci	13.3	Max WS	TR30 2H	12.79	268.57	271.42	269.73	271.43	0.000249	0.50	25.37	19.04	0.14
scopicci	13.3	Max WS	TR30 1H	7.02	268.57	270.89	269.47	270.90	0.000320	0.45	15.53	16.94	0.15
scopicci	13.25	Max WS	TR200 2H	16.70	268.57	271.51		271.57	0.002146	1.07	15.65	19.04	0.38
scopicci	13.25	Max WS	TR200 1H	18.32	268.57	271.56		271.62	0.002186	1.11	16.48	19.04	0.38
scopicci	13.25	Max WS	TR30 2H	12.69	268.57	271.39		271.43	0.002124	0.96	13.25	19.04	0.37
scopicci	13.25	Max WS	TR30 1H	7.02	268.57	270.87		270.90	0.000360	0.84	8.38	14.27	0.19
scopicci	13.2			Culvert									
scopicci	13.1	Max WS	TR200 2H	16.70	268.57	269.97	270.06	270.65	0.015270	3.64	4.58	6.50	1.12
scopicci	13.1	Max WS	TR200 1H	18.32	268.57	270.02	270.13	270.77	0.015699	3.81	4.81	6.54	1.14
scopicci	13.1	Max WS	TR30 2H	12.68	268.57	269.81	269.86	270.35	0.014916	3.24	3.91	6.38	1.08
scopicci	13.1	Max WS	TR30 1H	6.97	268.57	269.54	269.54	269.87	0.014456	2.53	2.76	6.16	1.00
scopicci	13.09	Max WS	TR200 2H	16.70	268.57	269.97	269.88	270.33	0.011107	2.67	6.26	6.50	0.87
scopicci	13.09	Max WS	TR200 1H	18.32	268.57	270.02	269.94	270.42	0.011419	2.77	6.61	6.54	0.88
scopicci	13.09	Max WS	TR30 2H	12.68	268.57	269.81	269.72	270.11	0.010851	2.42	5.25	6.37	0.85
scopicci	13.09	Max WS	TR30 1H	6.97	268.57	269.54	269.47	269.74	0.010848	1.97	3.54	6.16	0.83
scopicci	13.05			Inl Struct									
scopicci	13	Max WS	TR200 2H	16.70	267.38	269.10	268.49	269.27	0.003745	1.82	9.16	6.02	0.47
scopicci	13	Max WS	TR200 1H	18.32	267.38	269.25	268.56	269.42	0.003455	1.82	10.06	6.03	0.45
scopicci	13	Max WS	TR30 2H	12.68	267.38	269.00	268.34	269.11	0.002610	1.48	8.58	6.00	0.40
scopicci	13	Max WS	TR30 1H	7.02	267.38	268.70	268.08	268.76	0.001579	1.03	6.79	5.97	0.31
scopicci	12.99			Lat Struct									
scopicci	12.98			Lat Struct									
scopicci	12	Max WS	TR200 2H	16.69	267.62	268.91	269.06	269.54	0.024873	3.52	4.75	6.01	1.26
scopicci	12	Max WS	TR200 1H	18.34	267.62	268.97	269.13	269.62	0.024477	3.57	5.13	6.28	1.26
scopicci	12	Max WS	TR30 2H	12.68	267.62	268.74	268.88	269.30	0.025332	3.31	3.83	5.36	1.25
scopicci	12	Max WS	TR30 1H	7.01	267.62	268.46	268.55	268.88	0.025358	2.84	2.46	4.39	1.21
scopicci	11	Max WS	TR200 2H	16.69	267.04	268.30	268.38	268.87	0.019753	3.35	4.99	5.57	1.13
scopicci	11	Max WS	TR200 1H	18.36	267.04	268.37	268.46	268.96	0.019272	3.41	5.39	5.73	1.12
scopicci	11	Max WS	TR30 2H	12.68	267.04	268.13	268.20	268.63	0.020531	3.14	4.04	5.20	1.14

HEC-RAS   River: scopicci   Reach: scopicci   Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
scopicci	11	Max WS	TR30 1H	6.99	267.04	267.82	267.89	268.20	0.022845	2.72	2.57	4.55	1.16
scopicci	10.4	Max WS	TR200 2H	16.68	266.13	267.90	267.69	268.25	0.009455	2.64	6.32	5.40	0.78
scopicci	10.4	Max WS	TR200 1H	18.36	266.13	267.99	267.77	268.36	0.009135	2.68	6.86	5.53	0.77
scopicci	10.4	Max WS	TR30 2H	12.67	266.13	267.72	267.51	268.00	0.008425	2.34	5.40	5.18	0.73
scopicci	10.4	Max WS	TR30 1H	6.96	266.13	267.40	267.16	267.57	0.006772	1.82	3.82	4.76	0.65
scopicci	10.3	Max WS	TR200 2H	16.68	266.41	267.88	267.64	268.22	0.009372	2.60	6.40	5.04	0.69
scopicci	10.3	Max WS	TR200 1H	18.36	266.41	267.98	267.71	268.34	0.009119	2.65	6.92	5.04	0.68
scopicci	10.3	Max WS	TR30 2H	12.67	266.41	267.72	267.47	267.98	0.007844	2.25	5.63	5.04	0.63
scopicci	10.3	Max WS	TR30 1H	6.96	266.41	267.40	267.18	267.56	0.006301	1.73	4.03	5.04	0.55
scopicci	10.1	Max WS	TR200 2H	16.67	266.41	267.75	267.64	268.18	0.012487	2.88	5.79	5.04	0.79
scopicci	10.1	Max WS	TR200 1H	18.36	266.41	267.81	267.71	268.28	0.013060	3.01	6.10	5.04	0.81
scopicci	10.1	Max WS	TR30 2H	12.67	266.41	267.57	267.47	267.92	0.011897	2.60	4.87	5.04	0.77
scopicci	10.1	Max WS	TR30 1H	6.96	266.41	267.28	267.19	267.49	0.010640	2.06	3.38	5.04	0.71
scopicci	10.09			Lat Struct									
scopicci	10.08			Lat Struct									
scopicci	10	Max WS	TR200 2H	16.67	266.41	267.75	267.64	268.16	0.011897	2.83	5.88	5.28	0.86
scopicci	10	Max WS	TR200 1H	18.36	266.41	267.82	267.71	268.26	0.012104	2.94	6.25	5.30	0.86
scopicci	10	Max WS	TR30 2H	12.67	266.41	267.58	267.47	267.91	0.011355	2.56	4.95	5.22	0.84
scopicci	10	Max WS	TR30 1H	6.96	266.41	267.28	267.18	267.49	0.010525	2.05	3.40	5.13	0.80
scopicci	9.95			Inl Struct									
scopicci	9.9	Max WS	TR200 2H	16.68	265.04	266.77	266.79	267.34	0.019086	3.35	4.98	4.63	1.03
scopicci	9.9	Max WS	TR200 1H	18.36	265.04	266.84	266.87	267.45	0.019075	3.44	5.33	4.70	1.03
scopicci	9.9	Max WS	TR30 2H	12.67	265.04	266.58	266.59	267.06	0.019142	3.09	4.11	4.45	1.03
scopicci	9.9	Max WS	TR30 1H	6.97	265.04	266.25	266.26	266.59	0.019186	2.56	2.73	4.15	1.01
scopicci	8.1	Max WS	TR200 2H	16.76	262.70	264.27	264.28	264.80	0.017334	3.22	5.20	5.00	1.01
scopicci	8.1	Max WS	TR200 1H	18.44	262.70	264.35	264.36	264.90	0.017275	3.30	5.59	5.19	1.01
scopicci	8.1	Max WS	TR30 2H	12.66	262.70	264.06	264.06	264.52	0.017742	3.02	4.20	4.58	1.01
scopicci	8.1	Max WS	TR30 1H	6.96	262.70	263.71	263.70	264.05	0.018300	2.58	2.69	3.88	0.99
scopicci	8.09			Lat Struct									
scopicci	8.08			Lat Struct									
scopicci	7	Max WS	TR200 2H	17.05	262.34	263.76	263.81	264.38	0.019937	3.49	4.88	4.39	1.06
scopicci	7	Max WS	TR200 1H	18.74	262.34	263.84	263.89	264.49	0.019939	3.58	5.23	4.48	1.06
scopicci	7	Max WS	TR30 2H	12.66	262.34	263.55	263.57	264.06	0.019045	3.16	4.00	4.11	1.02
scopicci	7	Max WS	TR30 1H	6.96	262.34	263.22	263.19	263.56	0.016739	2.55	2.73	3.66	0.94
scopicci	6.8	Max WS	TR200 2H	17.09	262.12	263.38	263.34	263.79	0.013237	2.85	6.00	6.54	0.95
scopicci	6.8	Max WS	TR200 1H	18.66	262.12	263.47	263.40	263.88	0.011966	2.81	6.63	6.80	0.91
scopicci	6.8	Max WS	TR30 2H	12.66	262.12	263.16	263.15	263.54	0.014571	2.71	4.67	5.96	0.98
scopicci	6.8	Max WS	TR30 1H	6.96	262.12	262.84	262.85	263.14	0.016958	2.40	2.89	5.08	1.02
scopicci	6.2	Max WS	TR200 2H	17.09	261.84	263.29	263.23	263.81	0.016298	3.20	5.35	4.39	0.92
scopicci	6.2	Max WS	TR200 1H	18.69	261.84	263.35	263.30	263.92	0.017007	3.33	5.61	4.40	0.94
scopicci	6.2	Max WS	TR30 2H	12.66	261.84	263.08	263.01	263.50	0.015435	2.87	4.42	4.33	0.91
scopicci	6.2	Max WS	TR30 1H	6.96	261.84	262.76	262.69	263.02	0.013832	2.28	3.05	4.25	0.86
scopicci	6.19			Lat Struct									
scopicci	6.18			Lat Struct									
scopicci	5.8	Max WS	TR200 2H	17.09	261.86	263.24	263.22	263.75	0.016357	3.17	5.39	5.11	0.98
scopicci	5.8	Max WS	TR200 1H	18.67	261.86	263.29	263.30	263.84	0.016817	3.28	5.69	5.19	1.00
scopicci	5.8	Max WS	TR30 2H	12.66	261.86	263.02	263.01	263.46	0.016585	2.92	4.33	4.82	0.98
scopicci	5.8	Max WS	TR30 1H	6.96	261.86	262.70	262.68	263.00	0.016458	2.44	2.85	4.38	0.96
scopicci	5.2	Max WS	TR200 2H	17.09	261.77	263.13	263.04	263.55	0.012192	2.89	5.92	5.54	0.89
scopicci	5.2	Max WS	TR200 1H	18.64	261.77	263.18	263.11	263.64	0.012620	3.00	6.22	5.59	0.91
scopicci	5.2	Max WS	TR30 2H	12.66	261.77	262.92	262.85	263.28	0.012356	2.65	4.78	5.31	0.89
scopicci	5.2	Max WS	TR30 1H	6.96	261.77	262.60	262.53	262.85	0.012051	2.19	3.18	4.81	0.86
scopicci	4.8	Max WS	TR200 2H	17.09	261.37	263.09	262.94	263.49	0.011152	2.82	6.05	5.23	0.84
scopicci	4.8	Max WS	TR200 1H	18.61	261.37	263.14	263.01	263.58	0.011541	2.93	6.36	5.31	0.85
scopicci	4.8	Max WS	TR30 2H	12.66	261.37	262.89	262.73	263.21	0.010016	2.50	5.07	4.95	0.79
scopicci	4.8	Max WS	TR30 1H	6.95	261.37	262.60	262.40	262.78	0.007554	1.90	3.66	4.55	0.68
scopicci	4.78			Lat Struct									
scopicci	4	Max WS	TR200 2H	17.15	261.60	263.01	262.99	263.50	0.015012	3.10	5.52	5.31	0.97
scopicci	4	Max WS	TR200 1H	18.67	261.60	263.06	263.05	263.59	0.015473	3.22	5.81	5.38	0.99
scopicci	4	Max WS	TR30 2H	12.66	261.60	262.81	262.78	263.22	0.014958	2.83	4.47	5.03	0.96
scopicci	4	Max WS	TR30 1H	6.96	261.60	262.50	262.46	262.78	0.014092	2.31	3.01	4.58	0.91
scopicci	3	Max WS	TR200 2H	17.93	261.16	262.32	262.44	262.89	0.020695	3.33	5.39	6.66	1.18
scopicci	3	Max WS	TR200 1H	19.29	261.16	262.36	262.48	262.96	0.020958	3.41	5.66	6.80	1.19

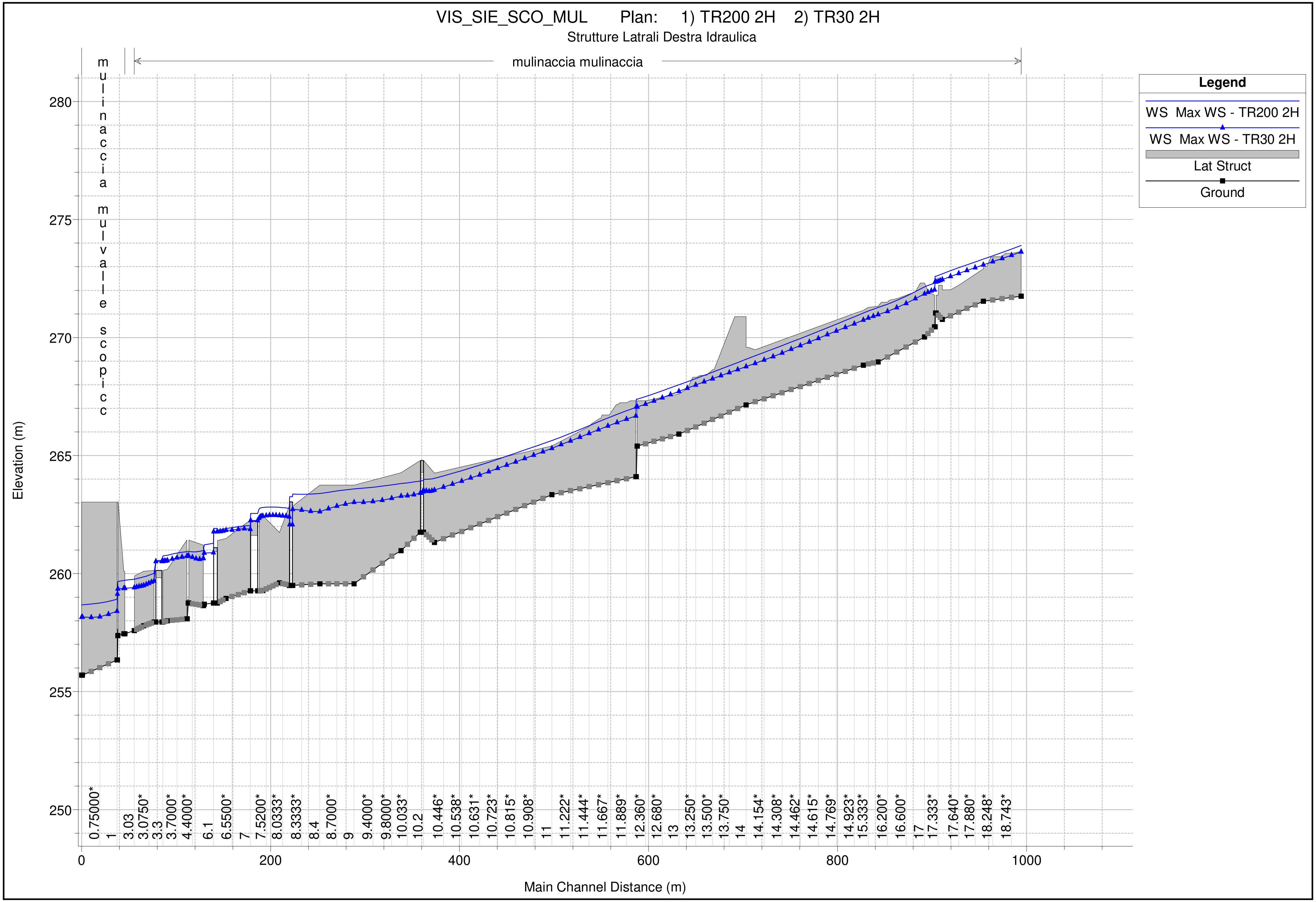
HEC-RAS River: scopicci Reach: scopicci Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
scopicci	3	Max WS	TR30 2H	12.66	261.16	262.12	262.22	262.61	0.022080	3.10	4.09	5.95	1.19
scopicci	3	Max WS	TR30 1H	6.95	261.16	261.85	261.92	262.21	0.023541	2.68	2.60	5.02	1.19
scopicci	2.99			Lat Struct									
scopicci	2.5	Max WS	TR200 2H	18.26	260.00	261.80	261.47	262.03	0.006129	2.12	8.63	8.36	0.65
scopicci	2.5	Max WS	TR200 1H	19.60	260.00	261.90	261.52	262.12	0.005321	2.08	9.53	9.67	0.61
scopicci	2.5	Max WS	TR30 2H	12.65	260.00	261.67	261.22	261.81	0.004161	1.66	7.60	7.59	0.53
scopicci	2.5	Max WS	TR30 1H	6.95	260.00	261.33	260.93	261.42	0.003304	1.32	5.27	6.31	0.46
scopicci	2.3	Max WS	TR200 2H	18.32	260.00	261.77	261.62	262.12	0.011449	2.61	7.03	6.85	0.82
scopicci	2.3	Max WS	TR200 1H	19.60	260.00	261.81	261.67	262.18	0.011483	2.68	7.34	7.38	0.83
scopicci	2.3	Max WS	TR30 2H	12.65	260.00	261.58	261.36	261.82	0.009138	2.19	5.79	6.24	0.72
scopicci	2.3	Max WS	TR30 1H	6.95	260.00	261.27	261.02	261.42	0.007352	1.73	4.01	5.24	0.63
scopicci	2.28			Lat Struct									
scopicci	1.9	Max WS	TR200 2H	18.29	260.01	261.47	261.64	262.17	0.027811	3.72	4.92	5.94	1.29
scopicci	1.9	Max WS	TR200 1H	19.60	260.01	261.52	261.69	262.24	0.026529	3.76	5.23	6.06	1.27
scopicci	1.9	Max WS	TR30 2H	12.65	260.01	261.27	261.40	261.84	0.027379	3.34	3.78	5.15	1.25
scopicci	1.9	Max WS	TR30 1H	6.95	260.01	261.00	261.02	261.37	0.019887	2.68	2.59	3.78	1.03
scopicci	1.8	Max WS	TR200 2H	18.29	260.15	261.39	261.45	261.89	0.018351	3.14	5.83	7.22	1.11
scopicci	1.8	Max WS	TR200 1H	19.60	260.15	261.44	261.50	261.95	0.017411	3.14	6.24	7.38	1.09
scopicci	1.8	Max WS	TR30 2H	12.65	260.15	261.18	261.24	261.60	0.019628	2.87	4.41	6.64	1.12
scopicci	1.8	Max WS	TR30 1H	6.95	260.15	260.92	260.98	261.24	0.022916	2.49	2.79	5.90	1.16
scopicci	1.79			Lat Struct									
scopicci	1.7	Max WS	TR200 2H	18.27	259.63	260.99	260.87	261.35	0.010532	2.66	6.87	7.01	0.86
scopicci	1.7	Max WS	TR200 1H	19.59	259.63	261.08	260.92	261.43	0.009895	2.60	7.53	7.64	0.84
scopicci	1.7	Max WS	TR30 2H	12.65	259.63	260.77	260.62	261.05	0.009091	2.32	5.46	6.14	0.79
scopicci	1.7	Max WS	TR30 1H	6.95	259.63	260.45	260.33	260.64	0.009070	1.94	3.59	5.41	0.76
scopicci	1.6	Max WS	TR200 2H	18.27	259.14	260.94	260.88	261.41	0.015802	3.04	6.02	5.46	0.92
scopicci	1.6	Max WS	TR200 1H	19.60	259.14	260.99	260.93	261.48	0.015879	3.10	6.32	5.55	0.93
scopicci	1.6	Max WS	TR30 2H	12.65	259.14	260.69	260.61	261.06	0.014822	2.68	4.73	5.02	0.88
scopicci	1.6	Max WS	TR30 1H	6.95	259.14	260.39	260.27	260.62	0.012457	2.11	3.29	4.50	0.79
scopicci	1.58			Lat Struct									
scopicci	1.5	Max WS	TR200 2H	18.27	259.59	260.85	260.77	261.36	0.016102	3.15	5.80	4.70	0.90
scopicci	1.5	Max WS	TR200 1H	19.60	259.59	260.89	260.83	261.44	0.017018	3.28	5.98	4.70	0.93
scopicci	1.5	Max WS	TR30 2H	12.65	259.59	260.61	260.52	260.99	0.014556	2.71	4.66	4.70	0.87
scopicci	1.5	Max WS	TR30 1H	6.95	259.59	260.33	260.23	260.55	0.011632	2.07	3.36	4.69	0.78
scopicci	1.4	Max WS	TR200 2H	18.25	259.48	260.60	260.71	261.30	0.025772	3.71	4.92	4.72	1.16
scopicci	1.4	Max WS	TR200 1H	19.59	259.48	260.62	260.77	261.40	0.028434	3.92	5.00	4.72	1.22
scopicci	1.4	Max WS	TR30 2H	12.64	259.48	260.36	260.46	260.93	0.026611	3.33	3.80	4.72	1.18
scopicci	1.4	Max WS	TR30 1H	6.95	259.48	260.12	260.16	260.47	0.023899	2.62	2.65	4.72	1.12
scopicci	1.39			Lat Struct									
scopicci	1.38			Lat Struct									
scopicci	1.3	Max WS	TR200 2H	18.25	259.49	260.55	260.64	261.18	0.023154	3.51	5.20	5.26	1.13
scopicci	1.3	Max WS	TR200 1H	19.59	259.49	260.56	260.70	261.27	0.025884	3.73	5.25	5.26	1.19
scopicci	1.3	Max WS	TR30 2H	12.64	259.49	260.31	260.40	260.84	0.025785	3.22	3.93	5.26	1.19
scopicci	1.3	Max WS	TR30 1H	6.95	259.49	260.07	260.13	260.42	0.025680	2.61	2.66	5.26	1.17
scopicci	1.28			Lat Struct									
scopicci	1.2	Max WS	TR200 2H	17.84	258.80	260.15	259.90	260.42	0.007837	2.30	7.74	6.88	0.69
scopicci	1.2	Max WS	TR200 1H	18.53	258.80	260.03	259.93	260.39	0.011940	2.68	6.91	6.87	0.85
scopicci	1.2	Max WS	TR30 2H	12.47	258.80	259.75	259.72	260.07	0.014344	2.48	5.02	6.85	0.93
scopicci	1.2	Max WS	TR30 1H	4.20	258.80	259.49	259.33	259.58	0.005785	1.29	3.27	6.36	0.57
scopicci	1.19			Lat Struct									
scopicci	1.1	Max WS	TR200 2H	18.28	258.26	260.12	259.77	260.31	0.004232	1.97	9.95	9.43	0.56
scopicci	1.1	Max WS	TR200 1H	17.64	258.26	260.01	259.74	260.23	0.005316	2.10	8.94	9.36	0.62
scopicci	1.1	Max WS	TR30 2H	12.32	258.26	259.68	259.49	259.91	0.007892	2.13	5.86	9.13	0.73
scopicci	1.1	Max WS	TR30 1H	4.47	258.26	259.49	259.01	259.54	0.002040	0.98	4.55	6.09	0.36
scopicci	0.9	Max WS	TR200 2H	17.89	257.52	260.10	259.26	260.22	0.002208	1.54	12.28	9.54	0.39
scopicci	0.9	Max WS	TR200 1H	17.80	257.52	260.03	259.25	260.16	0.002527	1.61	11.65	9.51	0.42
scopicci	0.9	Max WS	TR30 2H	12.20	257.52	259.69	258.94	259.80	0.002779	1.47	8.39	9.33	0.43
scopicci	0.9	Max WS	TR30 1H	4.57	257.52	259.50	258.35	259.52	0.000609	0.65	7.05	6.35	0.20

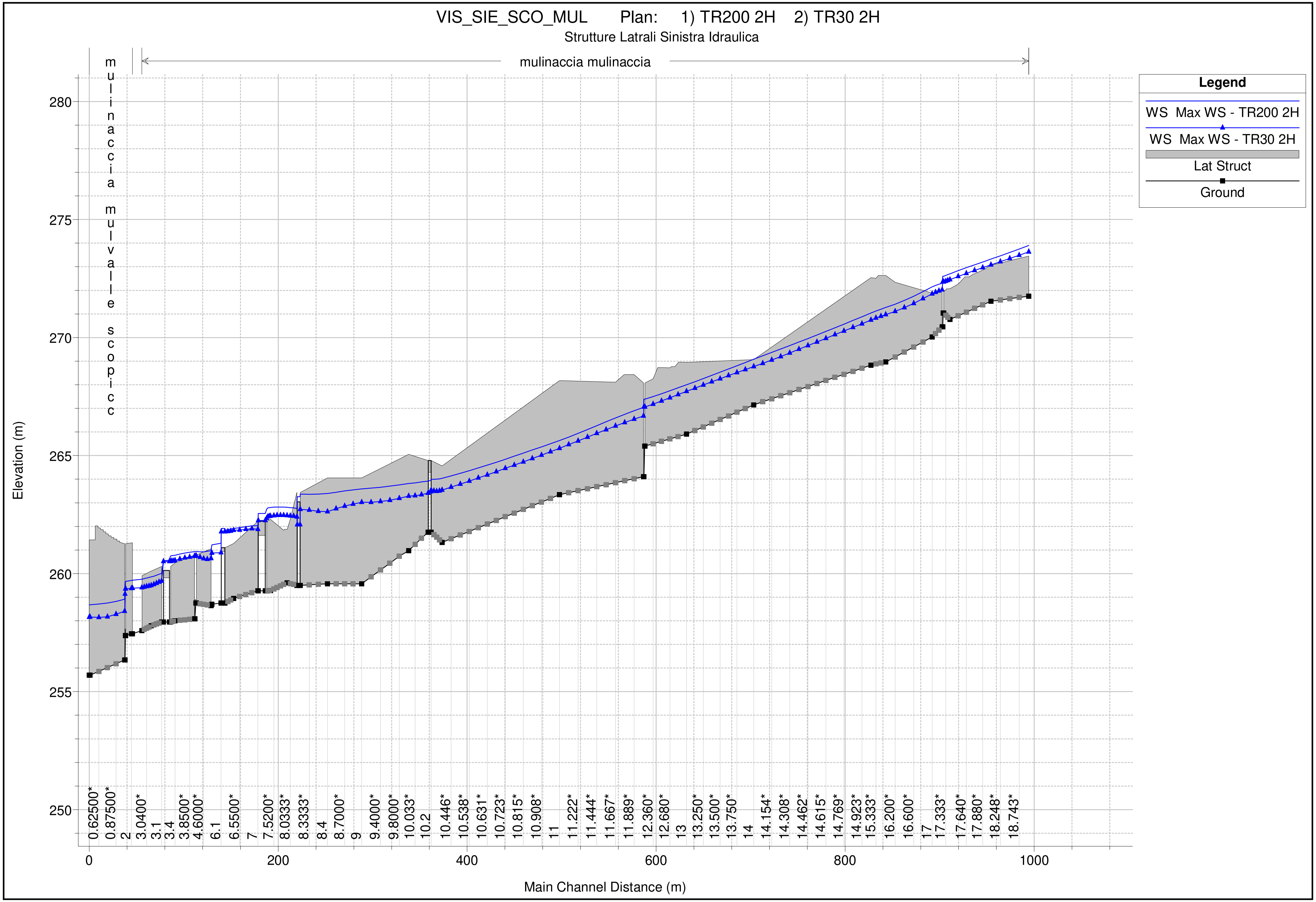
HEC-RAS River: scopicci Reach: scopicci Profile: Max WS

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
scopicci	19.89	Max WS	TR200 2H	18.26	1.91	16.70	1.91		287.06	1.47	0.51	270.05	280.23	279.62	271.57	271.51
scopicci	19.89	Max WS	TR200 1H	20.34	2.57	18.32	2.57		295.39	1.48	0.54	270.05	280.34	279.68	271.62	271.56
scopicci	19.89	Max WS	TR30 2H	13.11	2.00	12.69	2.00		249.57	1.33	0.44	270.05	279.94	279.45	271.43	271.39
scopicci	19.89	Max WS	TR30 1H	7.73	1.46	7.02	1.46		159.78	0.82	0.22	270.05	279.58	279.24	270.90	270.87
scopicci	19.88	Max WS	TR200 2H	18.26	-3.12	16.70	-3.12		64.90	0.74	0.45	271.29	280.23	279.62	271.57	271.51
scopicci	19.88	Max WS	TR200 1H	20.34	-11.33	18.32	-11.33		71.72	1.38	0.70	271.29	280.34	279.68	271.62	271.56
scopicci	19.88	Max WS	TR30 2H	13.11	-12.25	12.69	-12.25		68.75	1.38	0.66	271.29	279.94	279.45	271.43	271.39
scopicci	19.88	Max WS	TR30 1H	7.73	-4.88	7.02	-4.88		44.19	0.80	0.50	271.29	279.58	279.24	270.90	270.87
scopicci	12.99	Max WS	TR200 2H	16.70	0.00	16.68	0.00					268.76	269.27	269.10	268.22	267.88
scopicci	12.99	Max WS	TR200 1H	18.32	0.00	18.36	0.00					268.76	269.42	269.25	268.34	267.98
scopicci	12.99	Max WS	TR30 2H	12.68	0.00	12.67	0.00					268.76	269.11	269.00	267.98	267.72
scopicci	12.99	Max WS	TR30 1H	7.02	0.00	6.96	0.00					268.76	268.76	268.70	267.56	267.40
scopicci	12.98	Max WS	TR200 2H	16.70	-0.10	16.68	-0.10		21.91	0.17	0.05	269.35	269.27	269.10	268.22	267.88
scopicci	12.98	Max WS	TR200 1H	18.32	-0.14	18.36	-0.14		30.79	0.18	0.06	269.35	269.42	269.25	268.34	267.98
scopicci	12.98	Max WS	TR30 2H	12.68	-0.02	12.67	-0.02		6.04	0.10	0.04	269.35	269.11	269.00	267.98	267.72
scopicci	12.98	Max WS	TR30 1H	7.02	0.00	6.96	0.00					269.35	268.76	268.70	267.56	267.40
scopicci	10.09	Max WS	TR200 2H	16.67	-0.09	16.76	-0.09		24.63	0.14	0.04	265.02	268.18	267.75	264.80	264.27
scopicci	10.09	Max WS	TR200 1H	18.36	-0.10	18.44	-0.10		20.96	0.14	0.05	265.02	268.28	267.81	264.90	264.35
scopicci	10.09	Max WS	TR30 2H	12.67	-0.04	12.66	-0.04		14.74	0.11	0.03	265.02	267.92	267.57	264.52	264.06
scopicci	10.09	Max WS	TR30 1H	6.96	0.00	6.96	0.00					265.02	267.49	267.28	264.05	263.71
scopicci	10.08	Max WS	TR200 2H	16.67	-0.19	16.76	-0.19		20.19	0.25	0.09	264.80	268.18	267.75	264.80	264.27
scopicci	10.08	Max WS	TR200 1H	18.36	-0.24	18.44	-0.24		22.35	0.26	0.10	264.80	268.28	267.81	264.90	264.35
scopicci	10.08	Max WS	TR30 2H	12.67	-0.06	12.66	-0.06		11.92	0.17	0.06	264.80	267.92	267.57	264.52	264.06
scopicci	10.08	Max WS	TR30 1H	6.96	0.00	6.96	0.00					264.80	267.49	267.28	264.05	263.71
scopicci	8.09	Max WS	TR200 2H	16.76	-0.39	17.09	-0.39		38.14	0.14	0.11	264.87	264.80	264.27	263.81	263.29
scopicci	8.09	Max WS	TR200 1H	18.44	-0.43	18.69	-0.43		38.14	0.15	0.12	264.87	264.90	264.35	263.92	263.35
scopicci	8.09	Max WS	TR30 2H	12.66	-0.02	12.66	-0.02		38.14	0.03	0.02	264.87	264.52	264.06	263.50	263.08
scopicci	8.09	Max WS	TR30 1H	6.96	0.00	6.96	0.00					264.87	264.05	263.71	263.02	262.76
scopicci	8.08	Max WS	TR200 2H	16.76	-0.08	17.09	-0.08		46.02	0.05	0.03	264.75	264.80	264.27	263.81	263.29
scopicci	8.08	Max WS	TR200 1H	18.44	-0.05	18.69	-0.05		45.62	0.04	0.02	264.75	264.90	264.35	263.92	263.35
scopicci	8.08	Max WS	TR30 2H	12.66	0.00	12.66	0.00					264.75	264.52	264.06	263.50	263.08
scopicci	8.08	Max WS	TR30 1H	6.96	0.00	6.96	0.00					264.75	264.05	263.71	263.02	262.76
scopicci	6.19	Max WS	TR200 2H	17.09	-0.90	17.93	-0.90		51.08	0.18	0.16	264.23	263.81	263.29	262.89	262.33
scopicci	6.19	Max WS	TR200 1H	18.69	-0.95	19.29	-0.95		51.28	0.18	0.16	264.23	263.92	263.35	262.96	262.37
scopicci	6.19	Max WS	TR30 2H	12.66	-0.21	12.66	-0.21		46.39	0.08	0.06	264.23	263.50	263.08	262.61	262.12
scopicci	6.19	Max WS	TR30 1H	6.96	0.00	6.95	0.00					264.23	263.02	262.76	262.21	261.85
scopicci	6.18	Max WS	TR200 2H	17.09	0.00	17.09	0.00					264.84	263.81	263.29	263.49	263.09
scopicci	6.18	Max WS	TR200 1H	18.69	0.00	18.61	0.00					264.84	263.92	263.35	263.58	263.14
scopicci	6.18	Max WS	TR30 2H	12.66	0.00	12.66	0.00					264.84	263.50	263.08	263.21	262.89
scopicci	6.18	Max WS	TR30 1H	6.96	0.00	6.95	0.00					264.84	263.02	262.76	262.78	262.60
scopicci	4.78	Max WS	TR200 2H	17.09	-0.04	18.32	-0.04		8.77	0.11	0.05	262.80	263.49	263.09	262.12	261.77
scopicci	4.78	Max WS	TR200 1H	18.61	-0.03	19.60	-0.03		7.46	0.10	0.05	262.80	263.58	263.14	262.18	261.81
scopicci	4.78	Max WS	TR30 2H	12.66	0.00	12.65	0.00					262.80	263.21	262.89	261.82	261.58
scopicci	4.78	Max WS	TR30 1H	6.95	0.00	6.95	0.00					262.80	262.78	262.60	261.42	261.27
scopicci	2.99	Max WS	TR200 2H	17.93	-0.33	18.29	-0.33		19.95	0.28	0.14	263.18	262.89	262.32	261.89	261.39
scopicci	2.99	Max WS	TR200 1H	19.29	-0.34	19.60	-0.34		19.95	0.28	0.15	263.18	262.96	262.36	261.95	261.44
scopicci	2.99	Max WS	TR30 2H	12.66	-0.22	12.65	-0.22		18.34	0.26	0.11	263.18	262.61	262.12	261.60	261.18
scopicci	2.99	Max WS	TR30 1H	6.95	0.00	6.95	0.00					263.18	262.21	261.85	261.24	260.92
scopicci	2.28	Max WS	TR200 2H	18.32	0.00	18.27	0.00					261.35	262.12	261.77	261.41	260.94
scopicci	2.28	Max WS	TR200 1H	19.60	0.00	19.60	0.00					261.35	262.18	261.81	261.48	260.99
scopicci	2.28	Max WS	TR30 2H	12.65	0.00	12.65	0.00					261.35	261.82	261.58	261.06	260.69
scopicci	2.28	Max WS	TR30 1H	6.95	0.00	6.95	0.00					261.35	261.42	261.27	260.62	260.39
scopicci	1.79	Max WS	TR200 2H	18.29	0.00	18.25	0.00		4.38	0.00	0.00	261.61	261.89	261.39	261.30	260.60
scopicci	1.79	Max WS	TR200 1H	19.60	0.00	19.59	0.00		4.38	0.00	0.00	261.61	261.95	261.44	261.40	260.62
scopicci	1.79	Max WS	TR30 2H	12.65	0.00	12.64	0.00		4.38	0.00	0.00	261.61	261.60	261.18	260.93	260.36
scopicci	1.79	Max WS	TR30 1H	6.95	0.00	6.95	0.00		4.38	0.00	0.00	261.61	261.24	260.92	260.47	260.12
scopicci	1.58	Max WS	TR200 2H	18.27	0.00	18.25	0.00					261.67	261.41	260.94	261.30	260.60
scopicci	1.58	Max WS	TR200 1H	19.60	0.00	19.59	0.00					261.67	261.48	260.99	261.40	260.62
scopicci	1.58	Max WS	TR30 2H	12.65	0.00	12.64	0.00					261.67	261.06	260.69	260.93	260.36
scopicci	1.58	Max WS	TR30 1H	6.95	0.00	6.95	0.00					261.67	260.62	260.39	260.47	260.12
scopicci	1.39	Max WS	TR200 2H	18.25	0.00	17.84	0.00					261.43	261.30	260.60	260.42	260.15
scopicci	1.39	Max WS	TR200 1H	19.59	0.00	18.53	0.00					261.43	261.40	260.62	260.39	260.03
scopicci	1.39	Max WS	TR30 2H	12.64	0.00	12.47	0.00					261.43	260.93	260.36	260.07	259.75
scopicci	1.39	Max WS	TR30 1H	6.95	0.00	4.20	0.00					261.43	260.47	260.12	259.58	259.49
scopicci	1.38	Max WS	TR200 2H	18.25	0.00	18.25	0.00					261.70	261.30	260.60	261.18	260.55
scopicci	1.38	Max WS	TR200 1H	19.59	0.00	19.59	0.00					261.70	261.40	260.62	261.27	260.56
scopicci	1.38	Max WS	TR30 2H	12.64	0.00	12.64	0.00					261.70	260.93	260.36	260.84	260.31
scopicci	1.38	Max WS	TR30 1H	6.95	0.00	6.95	0.00					261.70	260.47	260.12	260.42	260.07
scopicci	1.28	Max WS	TR200 2H	18.25	0.00	18.28	0.00					260.94	261.18	260.55	260.31	260.12
scopicci	1.28	Max WS	TR200 1H	19.59	0.00	17.64	0.00					260.94	261.27	260.56	260.23	260.01
scopicci	1.28	Max WS	TR30 2H	12.64	0.00	12.32	0.00					260.94	260.84	260.31	259.91	259.68
scopicci	1.28	Max WS	TR30 1H	6.95	0.00	4.47	0.00					260.94	260.42	260.07	259.54	259.49
scopicci	1.19	Max WS	TR200 2H	17.84	-0.62	18.28	-0.62		5.02	1.07	0.53	259.67	260.42	260.15	260.31	260.12
scopicci	1.19	Max WS	TR200 1H	18.53	-0.56	17.64	-0.56		4.84	1.03	0.51	259.67	260.39	260.03	260.23	260.01
scopicci	1.19	Max WS	TR30 2H	12.47	-0.34	12.32	-0.34		3.96	0.84	0.41	259.67	260.07	259.75	259.91	259.68
scopicci	1.19	Max WS	TR30 1H	4.20	-0.27	4.47	-0.27		3.66	0.77	0.38	259.67	259.58	259.49	259.54	259.49

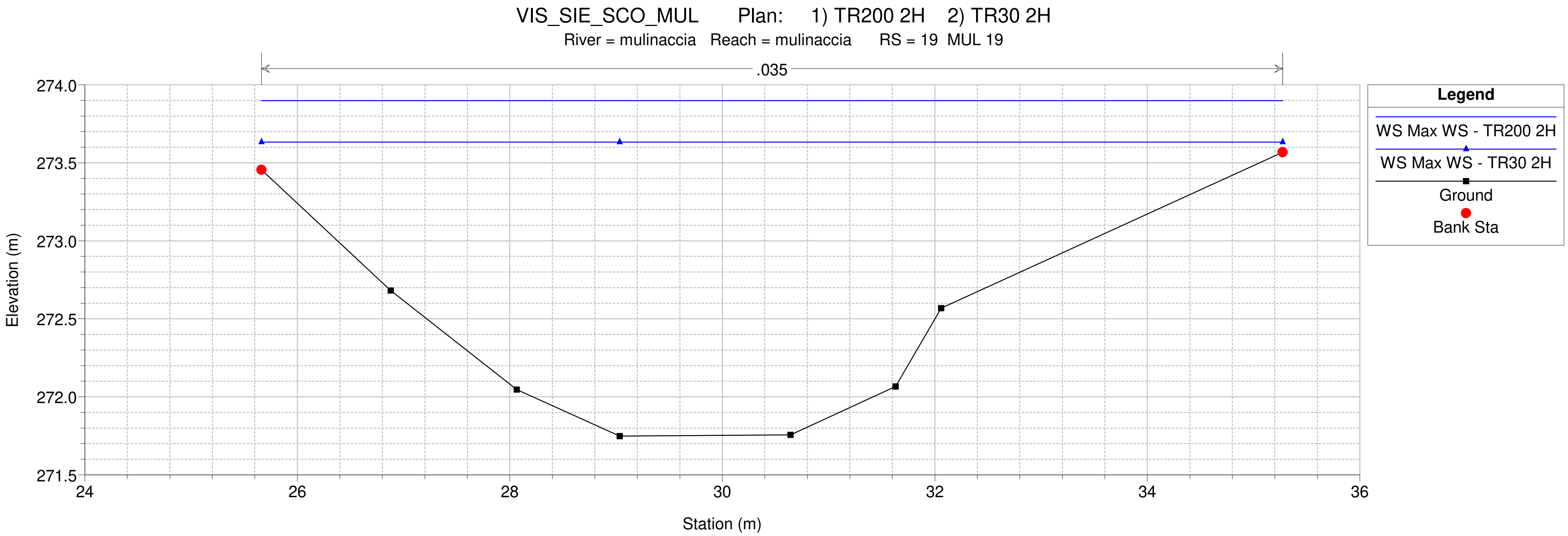
FOSSO
DELLA MULINACCIA

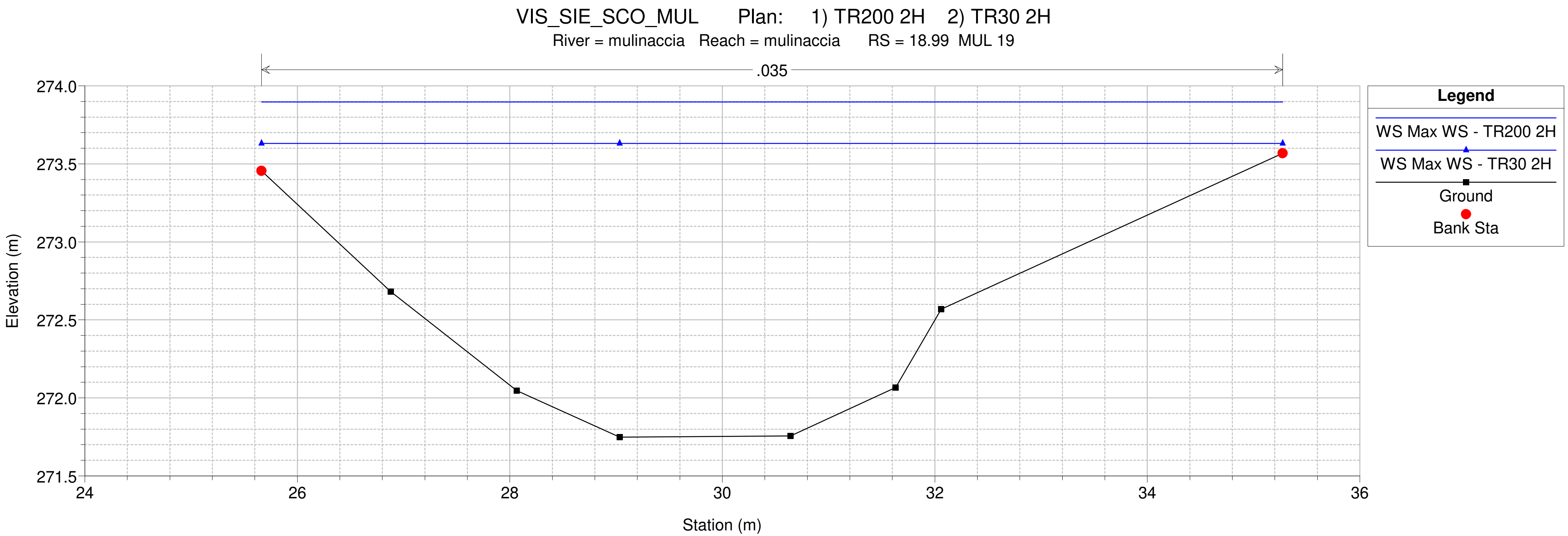


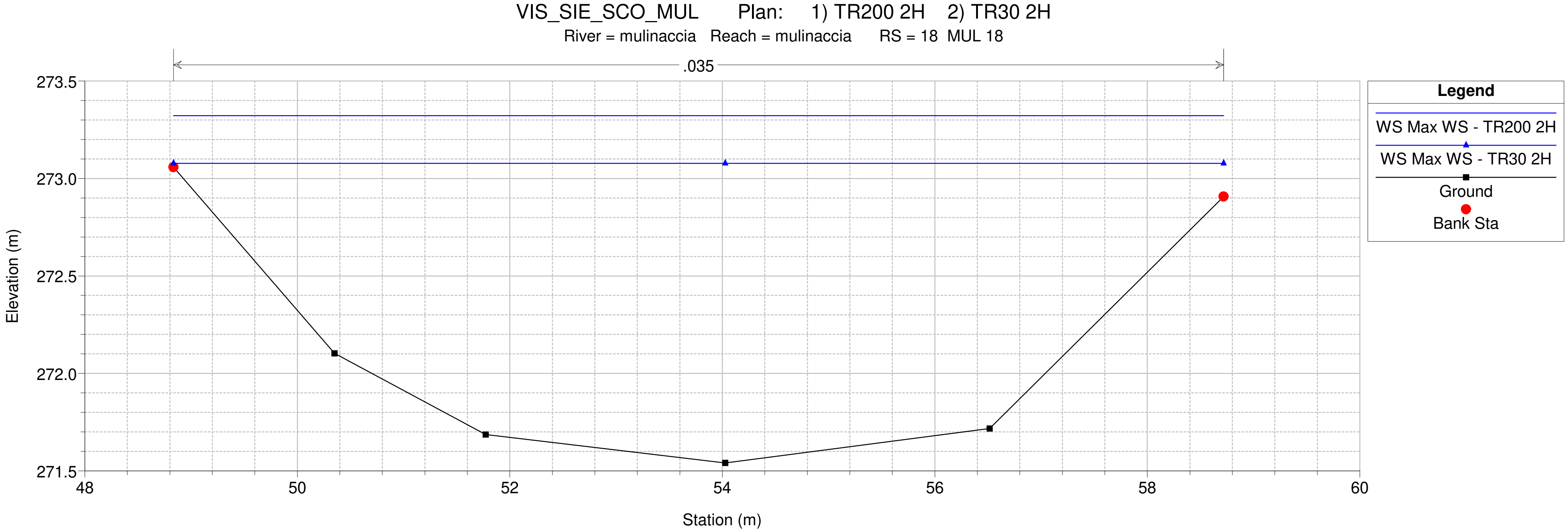
1 cm Horiz. = 50 m 1 cm Vert. = 2 m

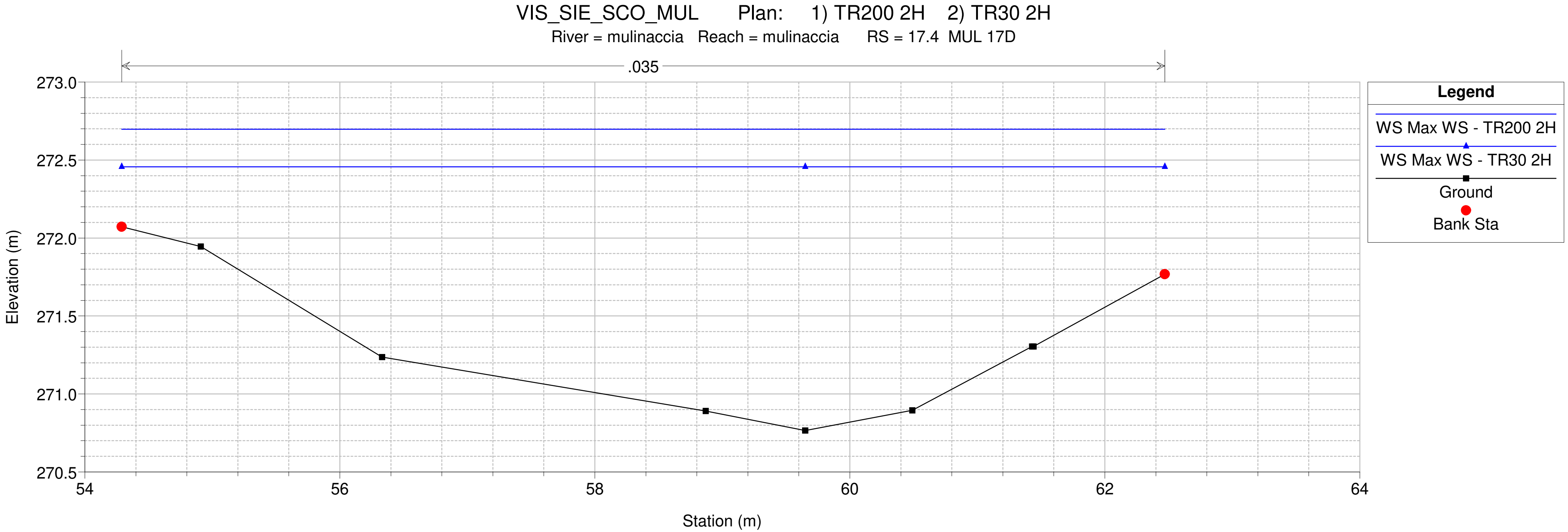


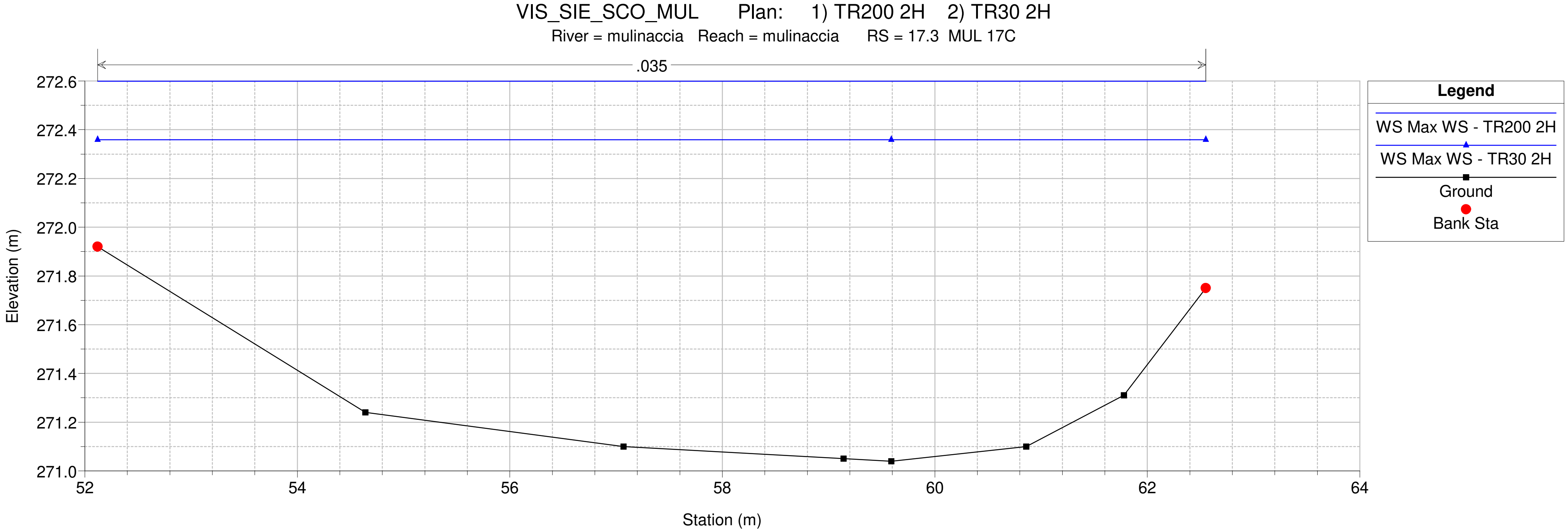
1 cm Horiz. = 50 m 1 cm Vert. = 2 m


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 19 MUL 19
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
274.0
273.5
273.0
272.5
272.0
271.5
24
26
28
30
32
34
36
Station (m)

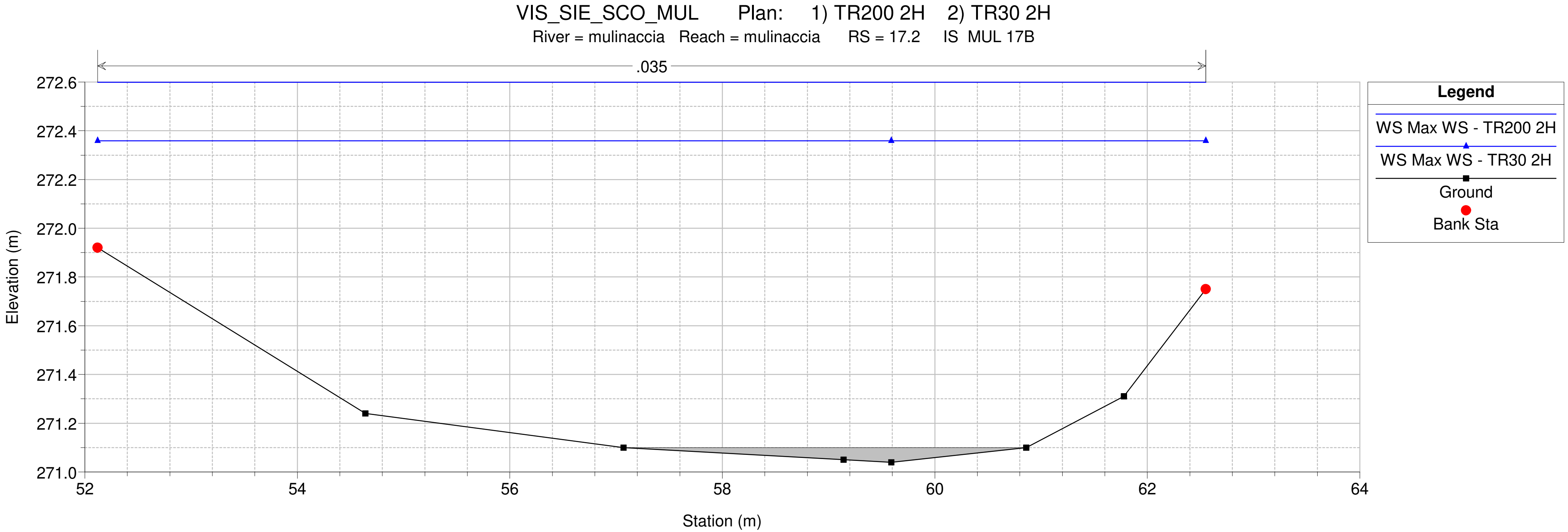

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 18.99 MUL 19
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
274.0
273.5
273.0
272.5
272.0
271.5
24
26
28
30
32
34
36
Station (m)


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 18 MUL 18
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

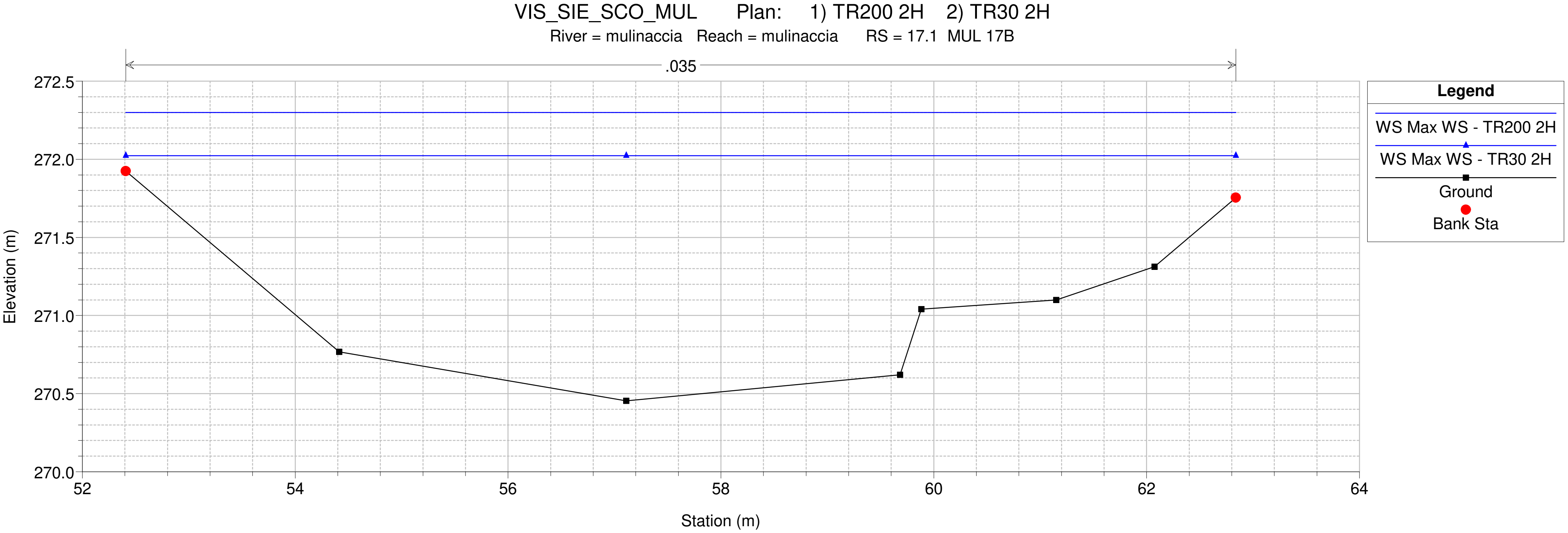

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 17.4 MUL 17D
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

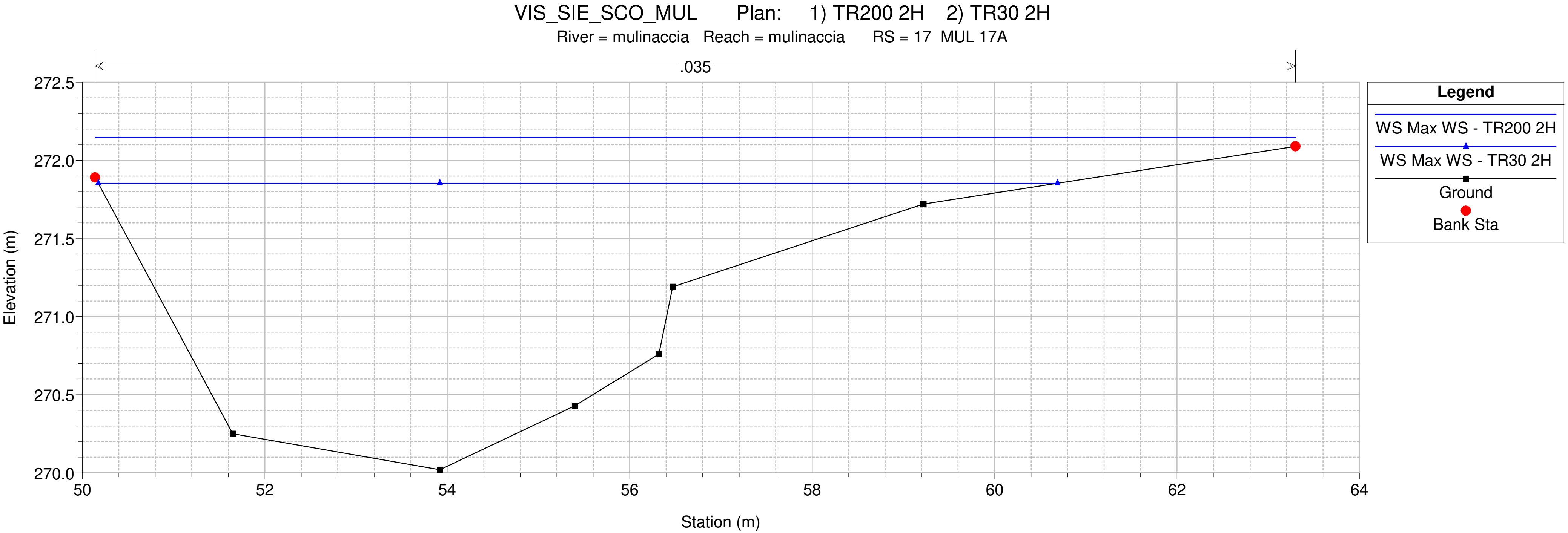


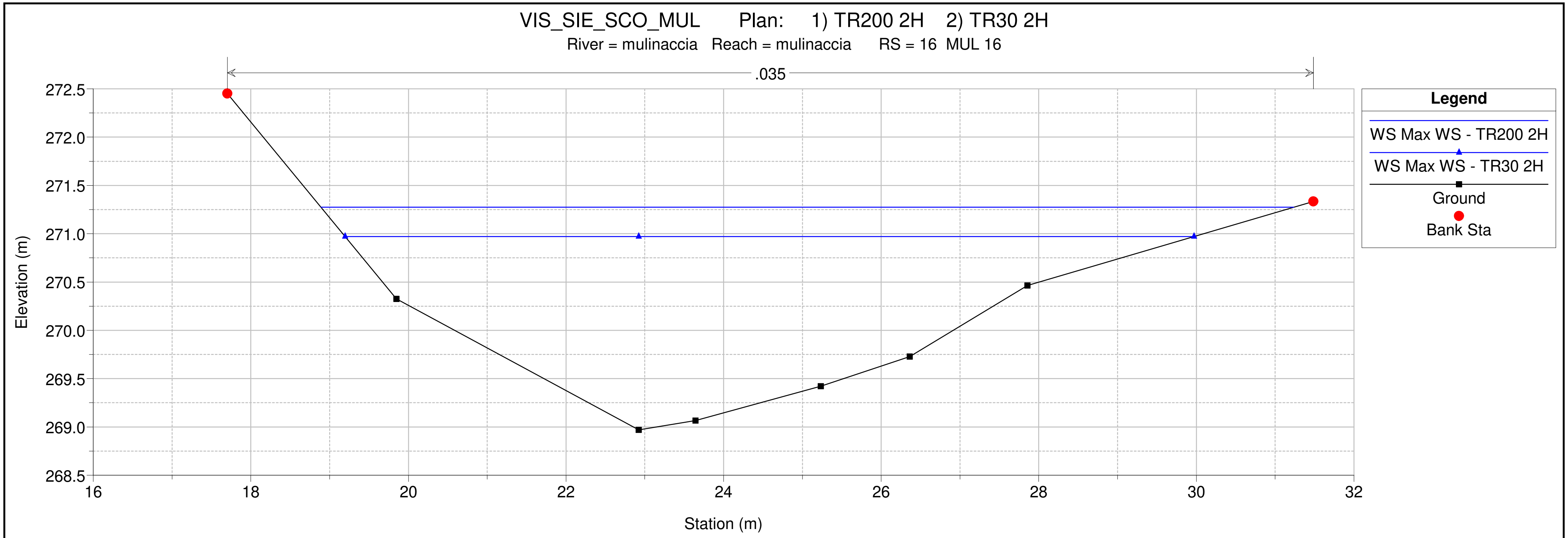
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 17.3 MUL 17C
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

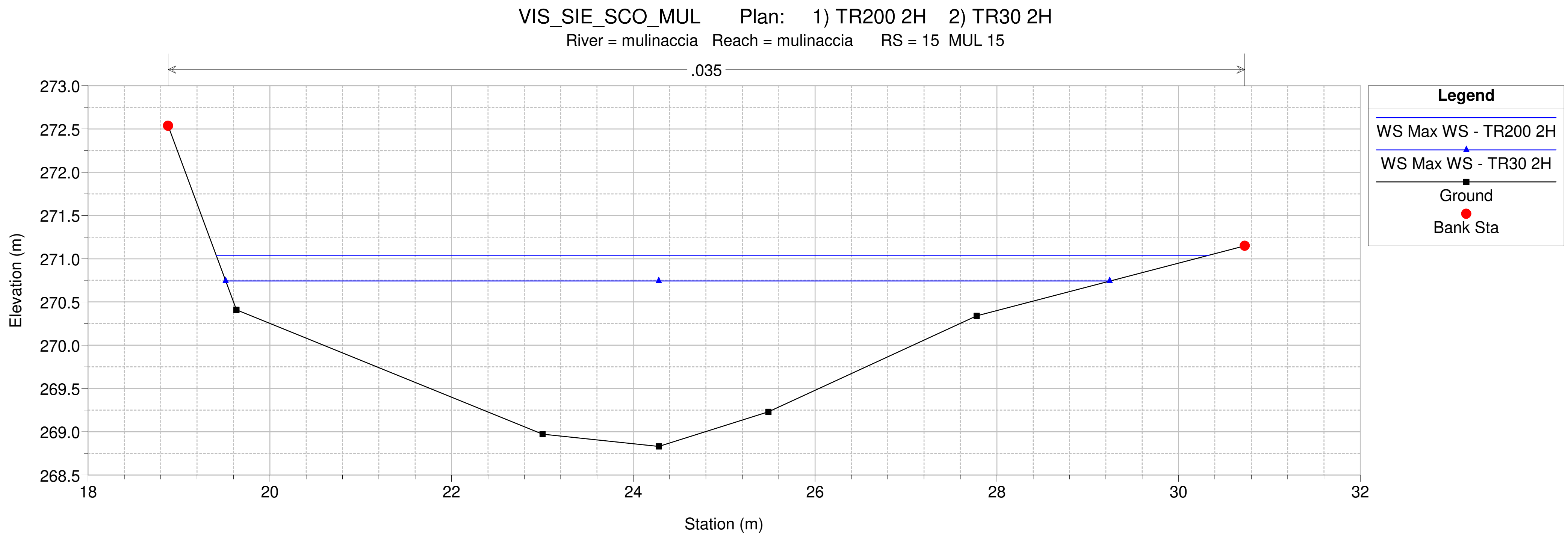


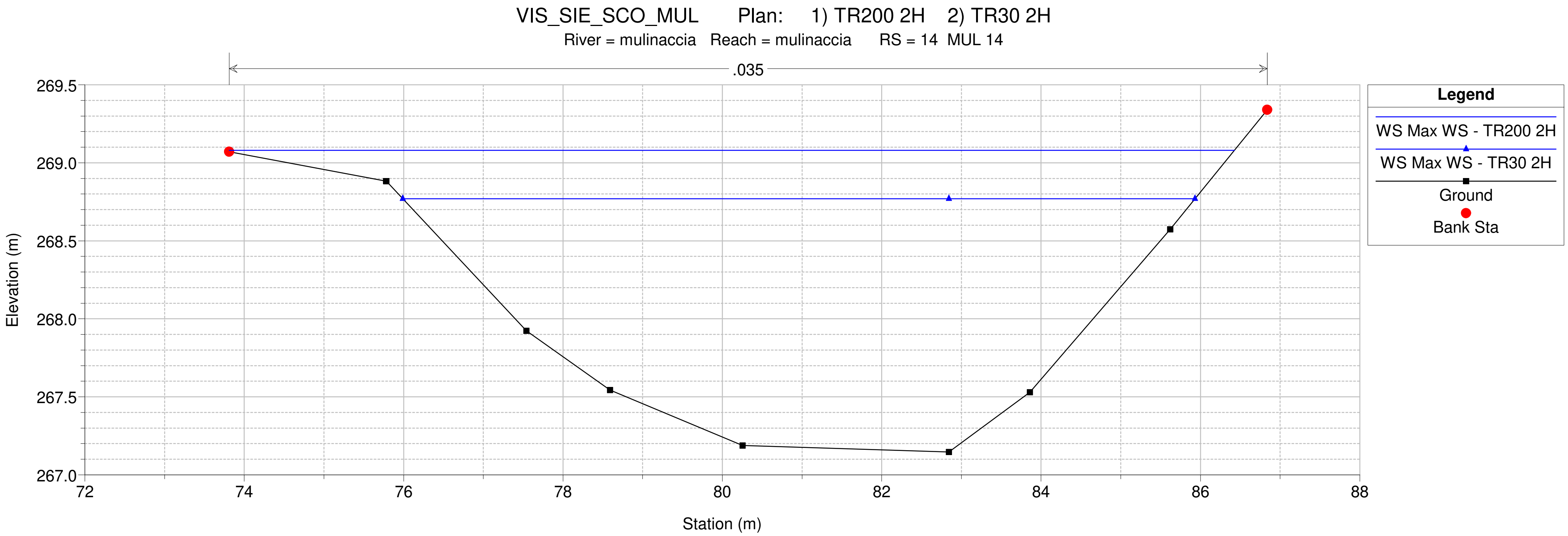
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 17.2 IS MUL 17B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

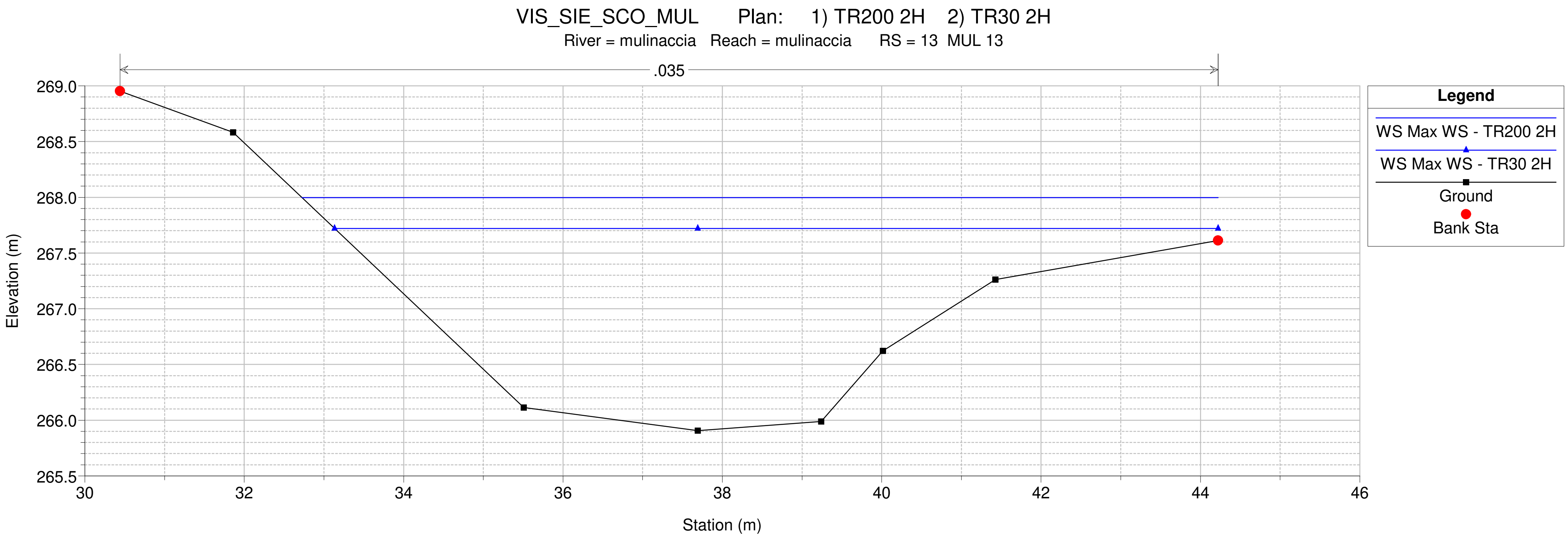

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 17.1 MUL 17B
.035
Elevation (m)
Station (m)
272.5
272.0
271.5
271.0
270.5
270.0
52
54
56
58
60
62
64
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

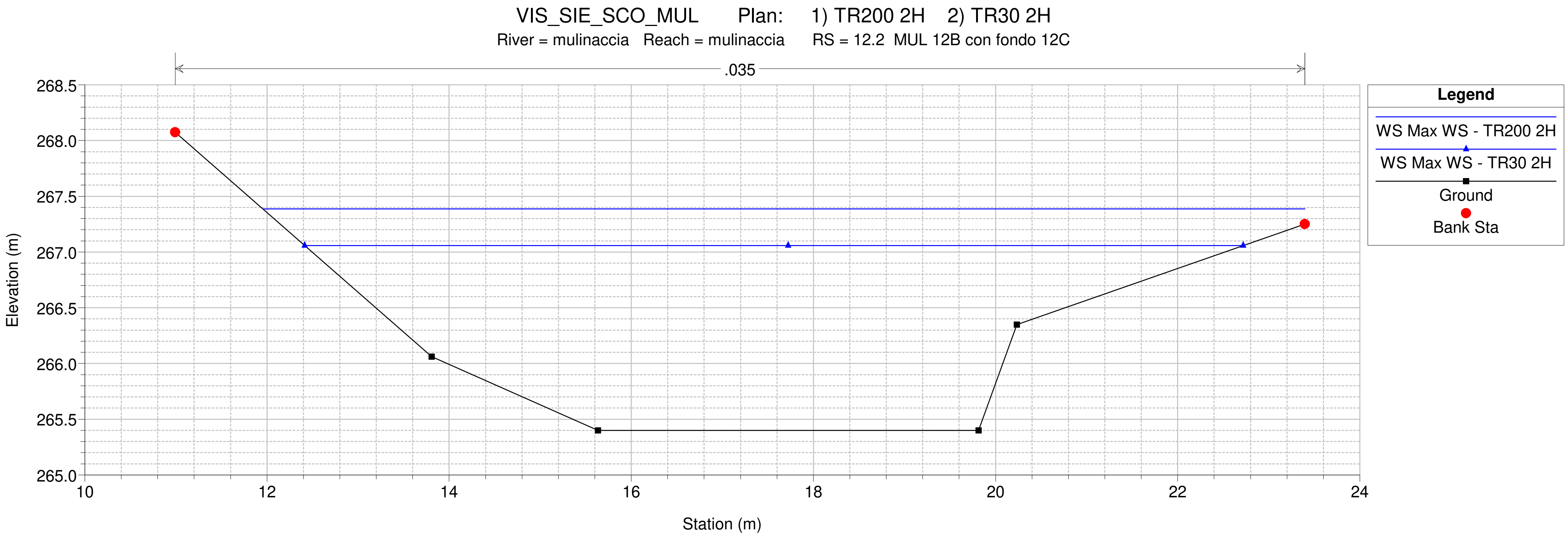

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 17 MUL 17A
.035
Elevation (m)
Station (m)
272.5
272.0
271.5
271.0
270.5
270.0
50
52
54
56
58
60
62
64
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

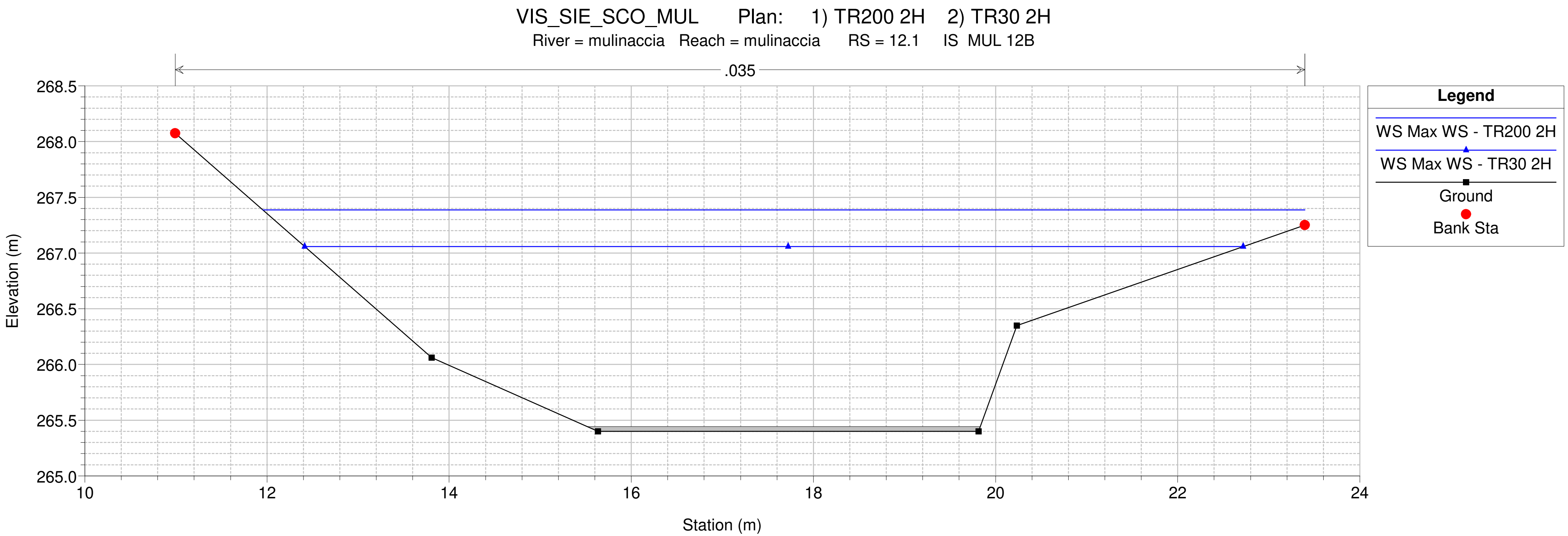

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 16 MUL 16
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
272.5
272.0
271.5
271.0
270.5
270.0
269.5
269.0
268.5
16
18
20
22
24
26
28
30
32

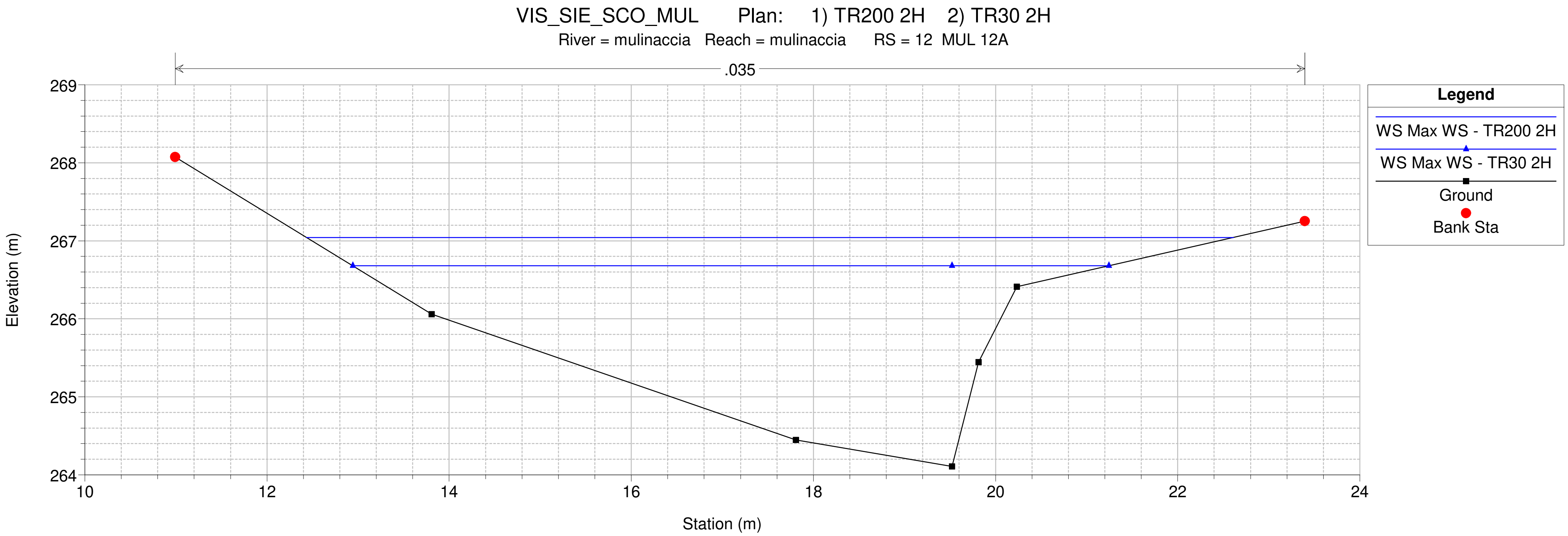

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 15 MUL 15
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
273.0
272.5
272.0
271.5
271.0
270.5
270.0
269.5
269.0
268.5
18
20
22
24
26
28
30
32


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 14 MUL 14
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
269.5
269.0
268.5
268.0
267.5
267.0
72
74
76
78
80
82
84
86
88

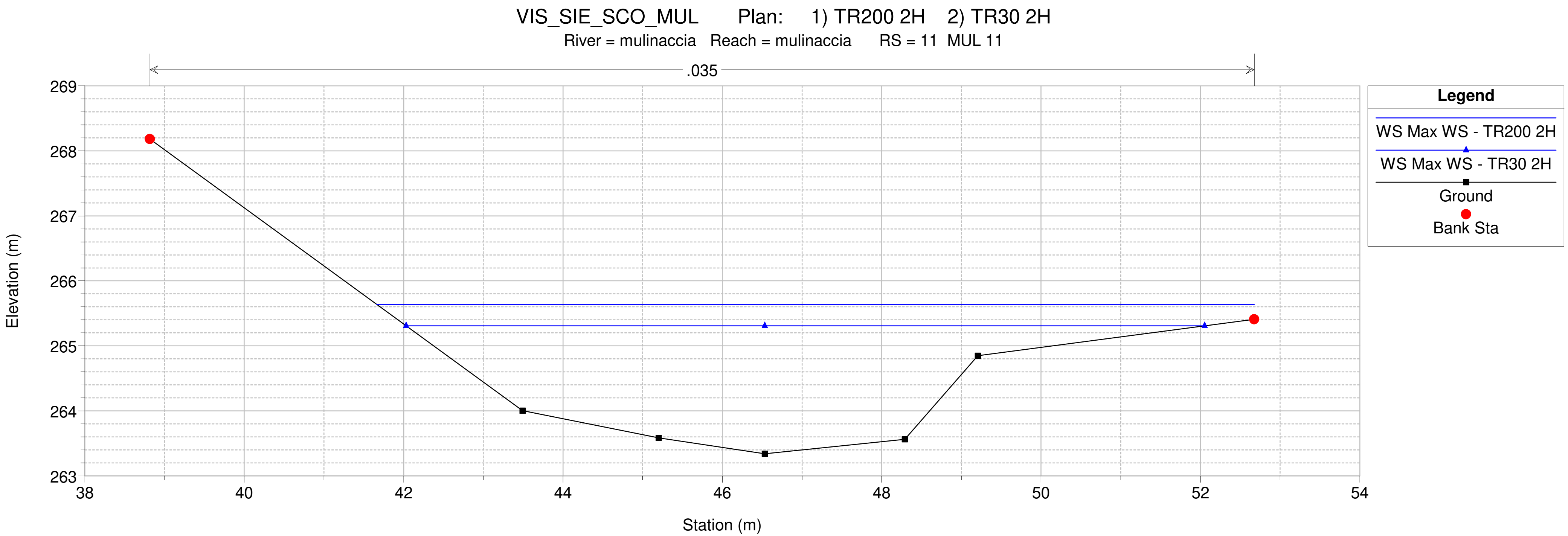

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 13 MUL 13
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
269.0
268.5
268.0
267.5
267.0
266.5
266.0
265.5
30
32
34
36
38
40
42
44
46


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 12.2 MUL 12B con fondo 12C
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
268.5
268.0
267.5
267.0
266.5
266.0
265.5
265.0
10
12
14
16
18
20
22
24

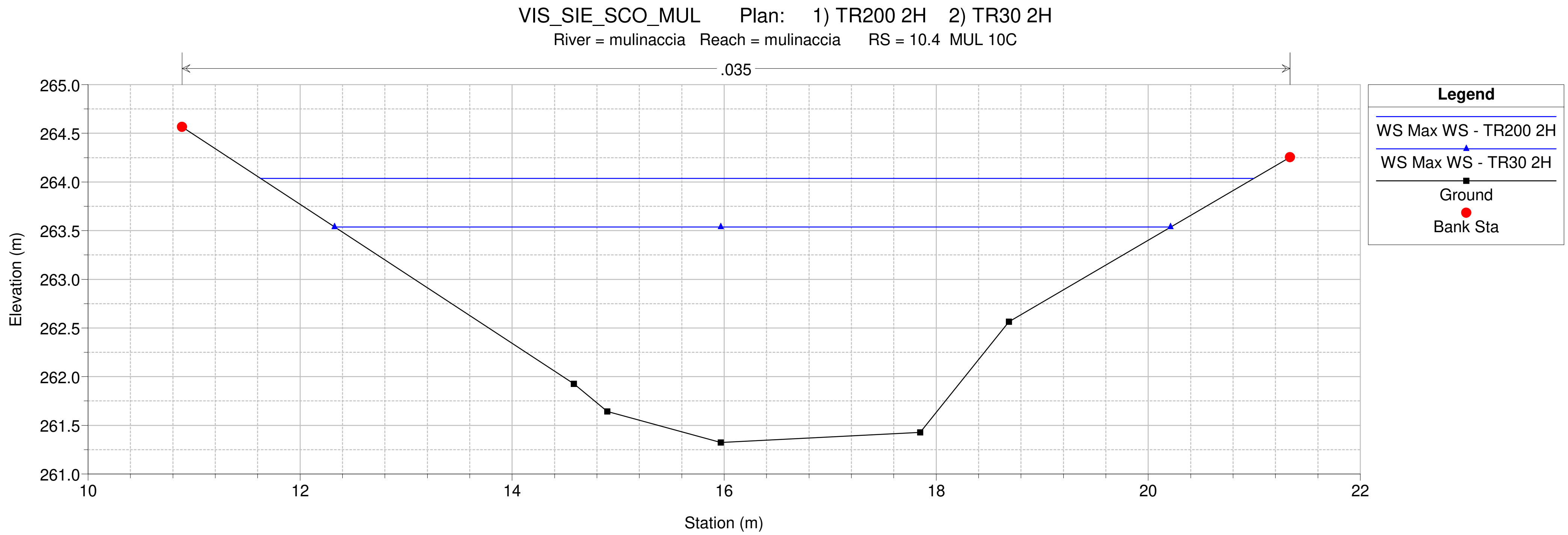

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 12.1 IS MUL 12B
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
268.5
268.0
267.5
267.0
266.5
266.0
265.5
265.0
10
12
14
16
18
20
22
24



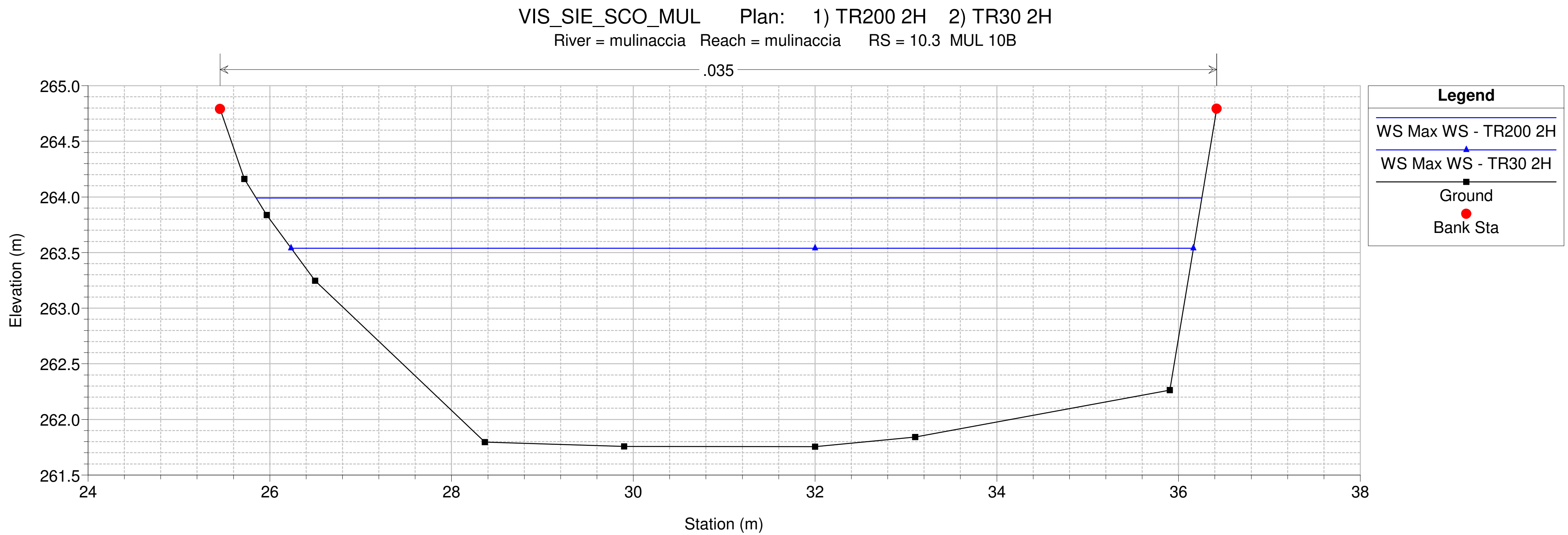
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 12 MUL 12A
.035
Elevation (m)
Station (m)
269
268
267
266
265
264
10
12
14
16
18
20
22
24
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta



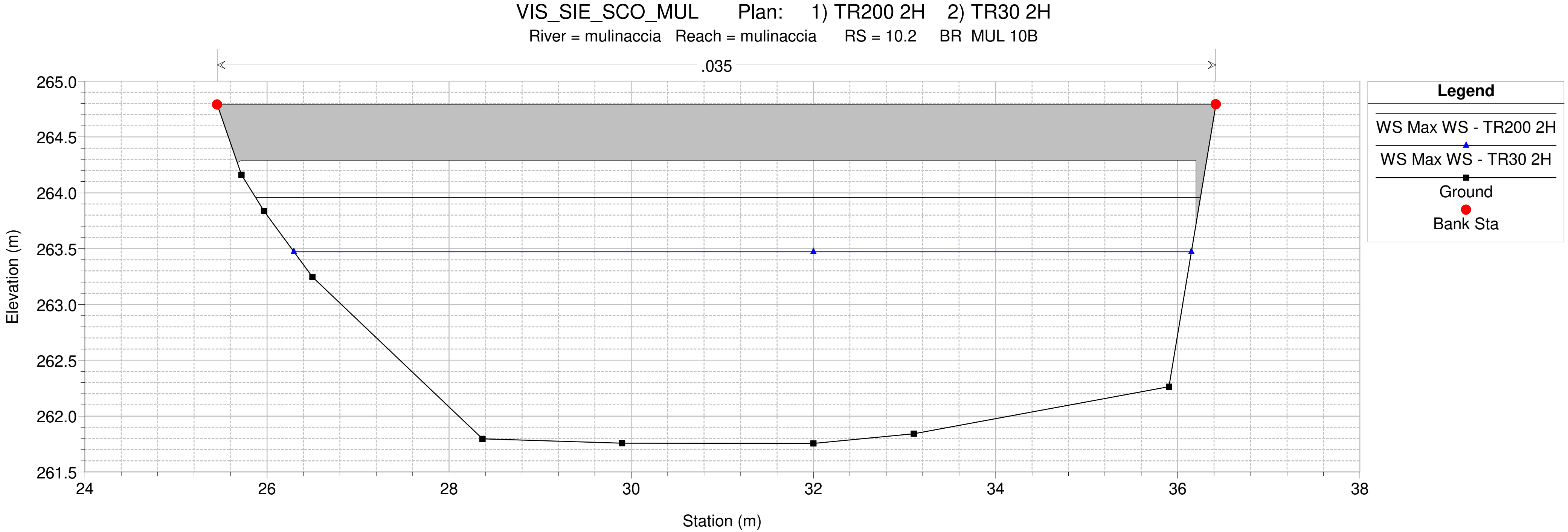
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 11 MUL 11
.035
Elevation (m)
Station (m)
269
268
267
266
265
264
263
38
40
42
44
46
48
50
52
54
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

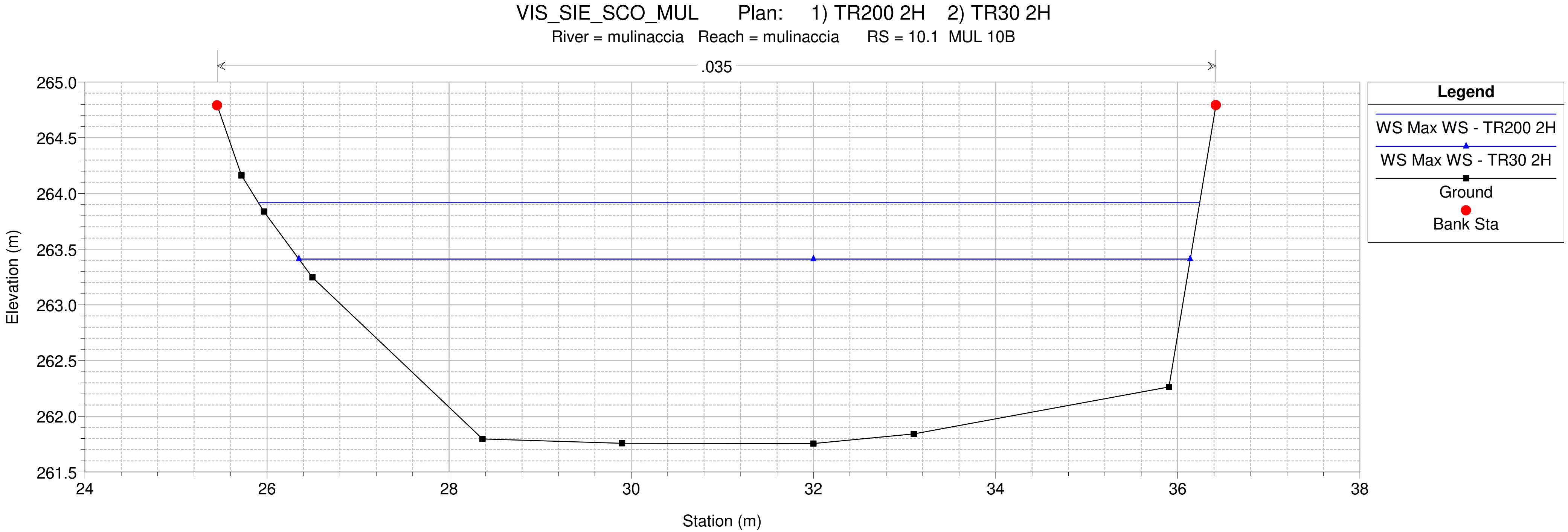


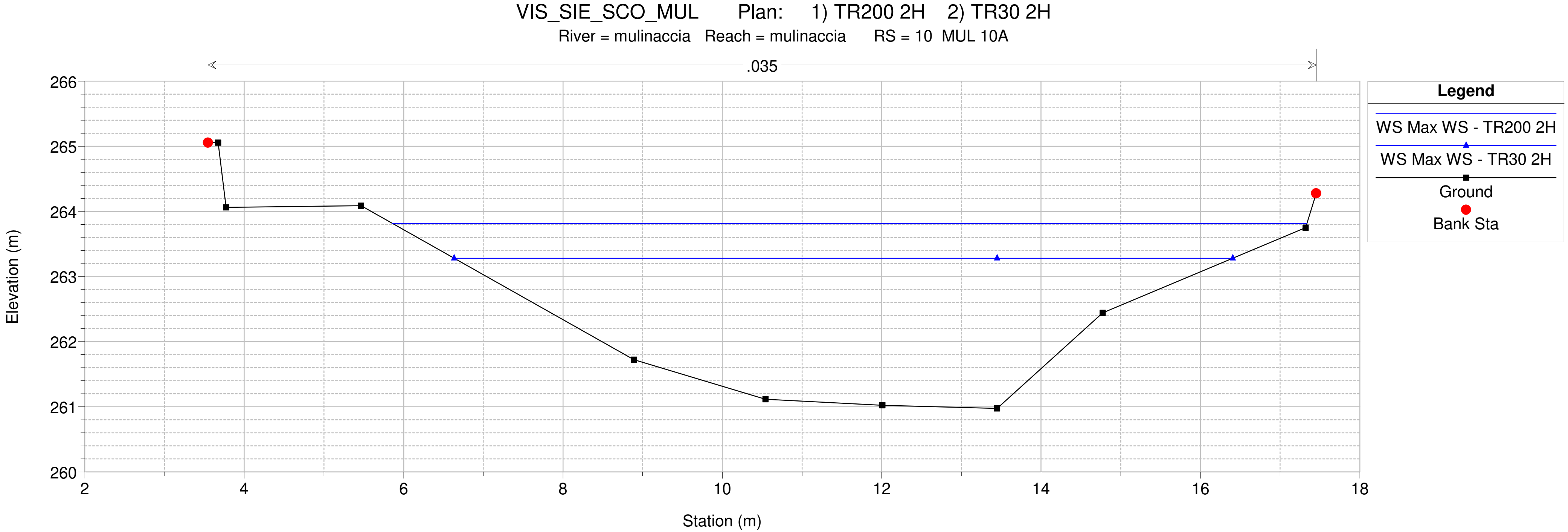
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 10.4 MUL 10C
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265.0
264.5
264.0
263.5
263.0
262.5
262.0
261.5
261.0
10
12
14
16
18
20
22

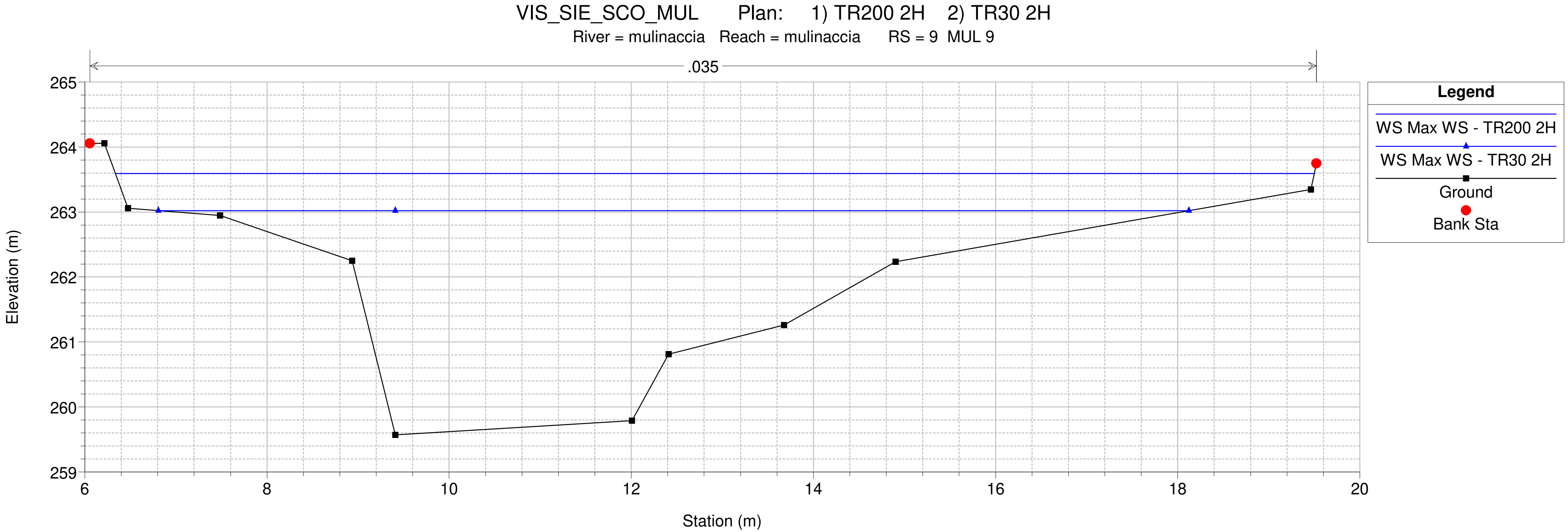


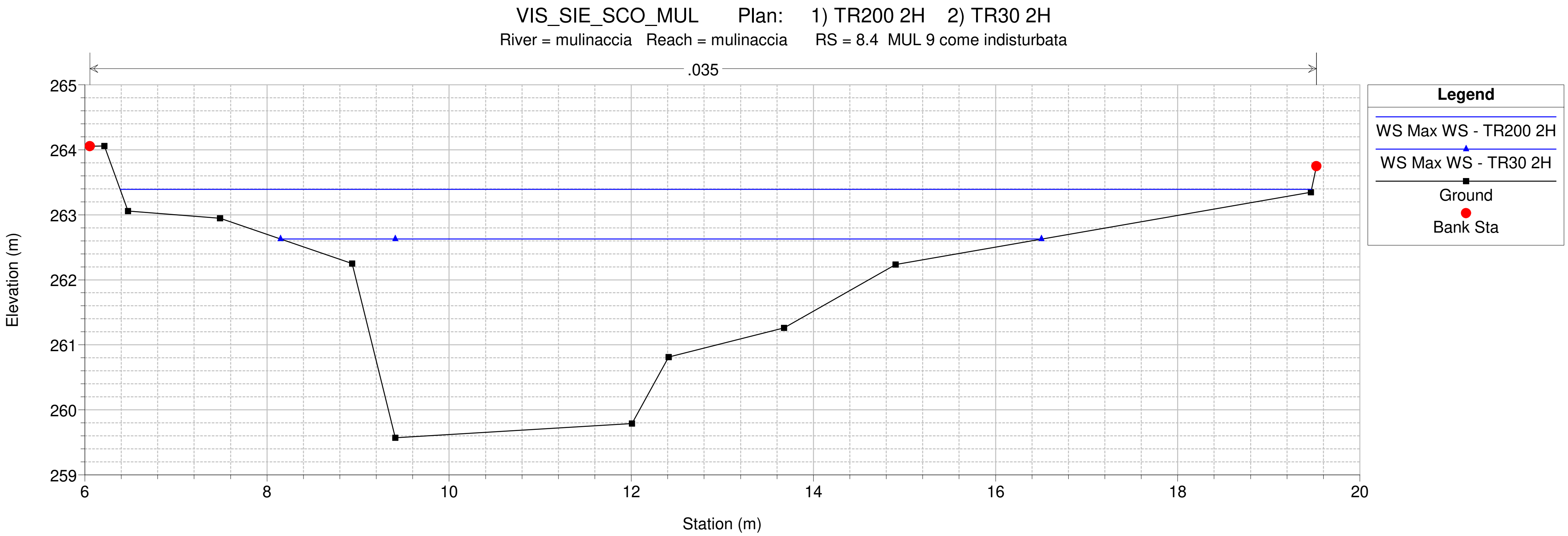
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 10.3 MUL 10B
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265.0
264.5
264.0
263.5
263.0
262.5
262.0
261.5
24
26
28
30
32
34
36
38

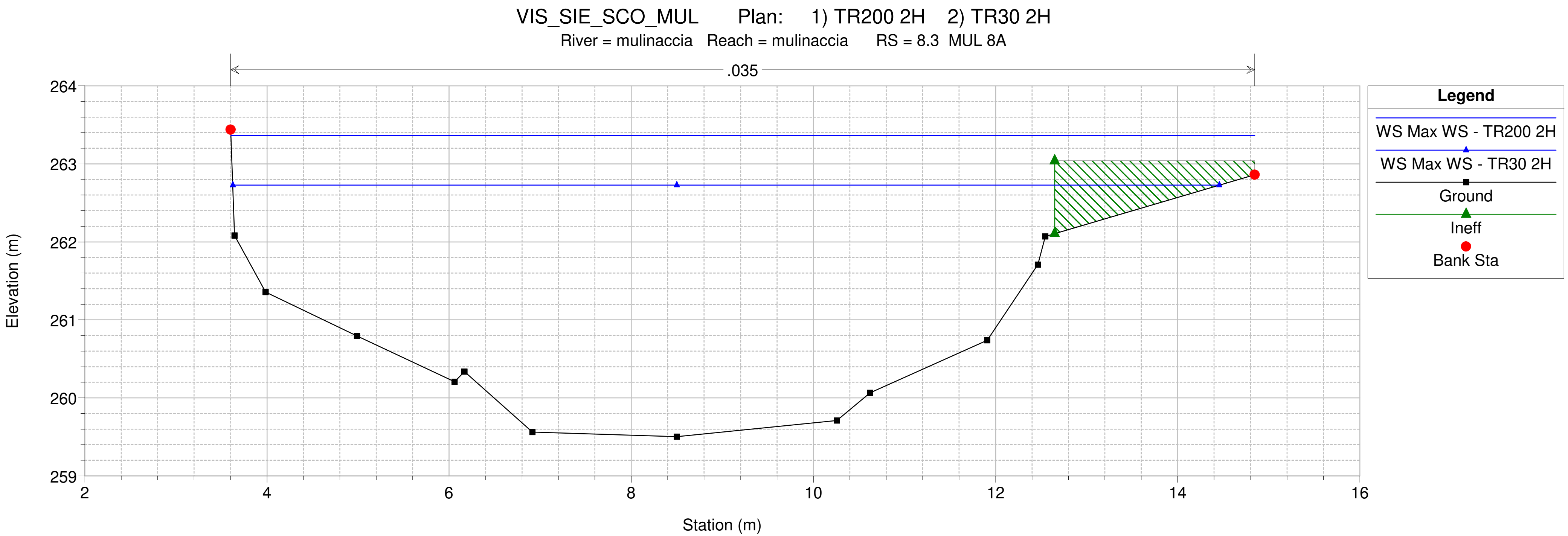

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 10.2 BR MUL 10B
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265.0
264.5
264.0
263.5
263.0
262.5
262.0
261.5
24
26
28
30
32
34
36
38

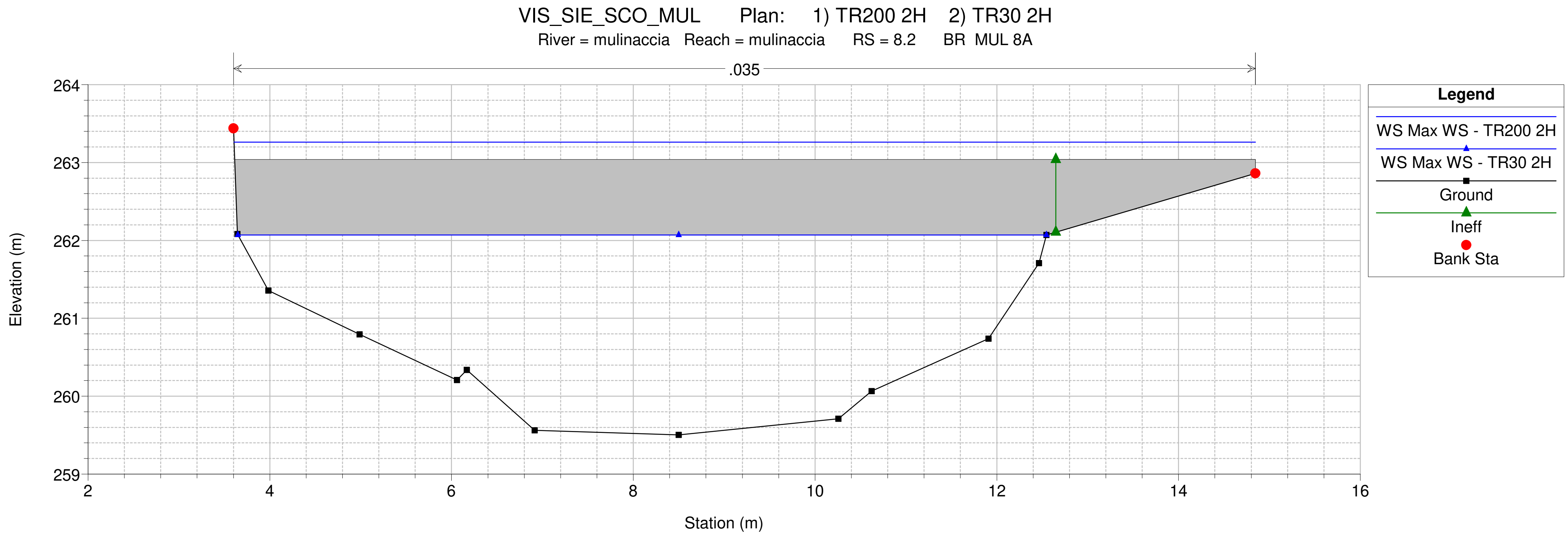

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 10.1 MUL 10B
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265.0
264.5
264.0
263.5
263.0
262.5
262.0
261.5
24
26
28
30
32
34
36
38

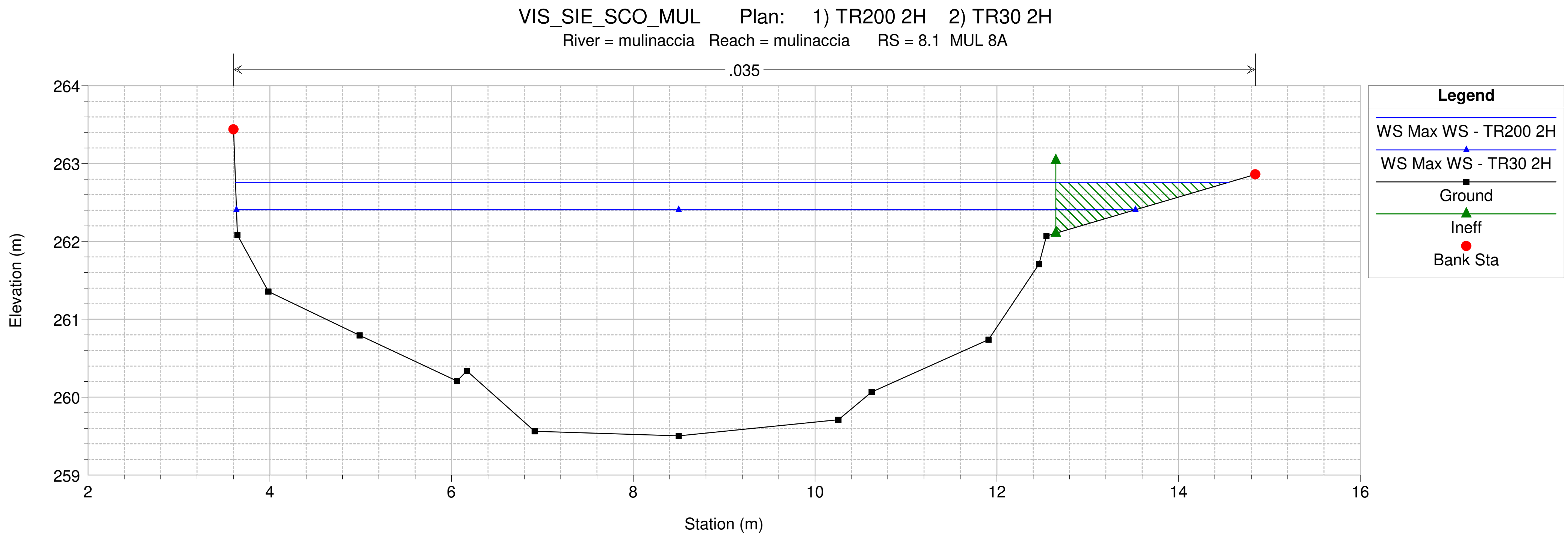

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 10 MUL 10A
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
266
265
264
263
262
261
260
2
4
6
8
10
12
14
16
18

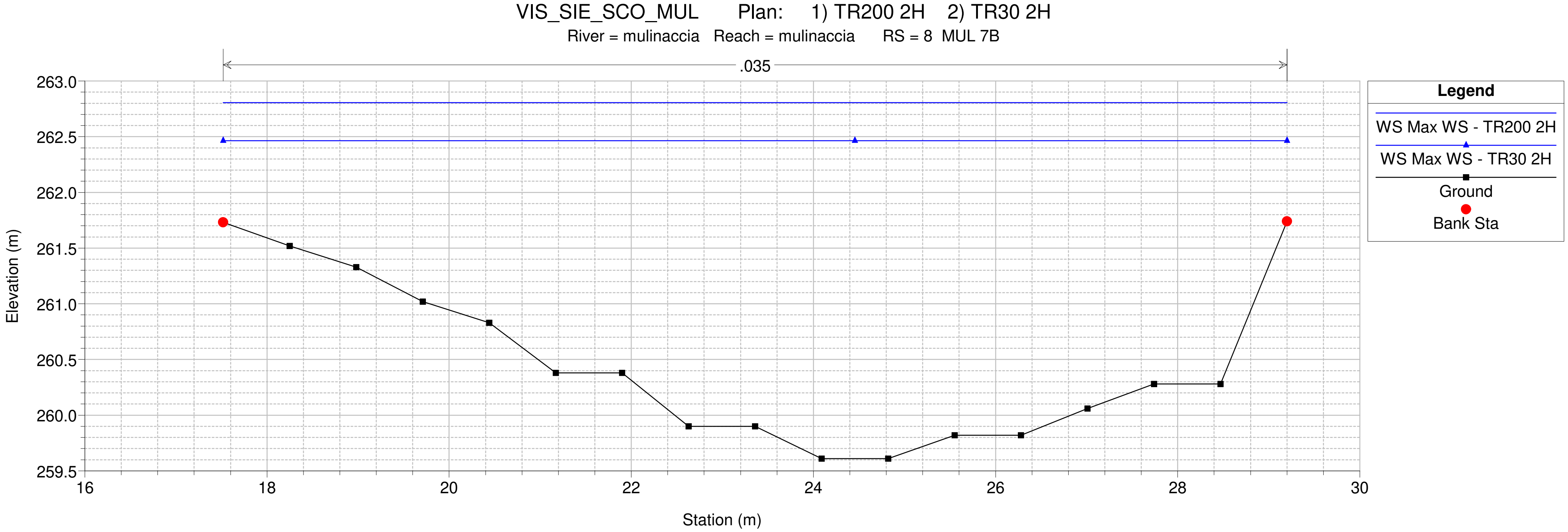

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 9 MUL 9
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265
264
263
262
261
260
259
6
8
10
12
14
16
18
20


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 8.4 MUL 9 come indisturbata
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
265
264
263
262
261
260
259
6
8
10
12
14
16
18
20

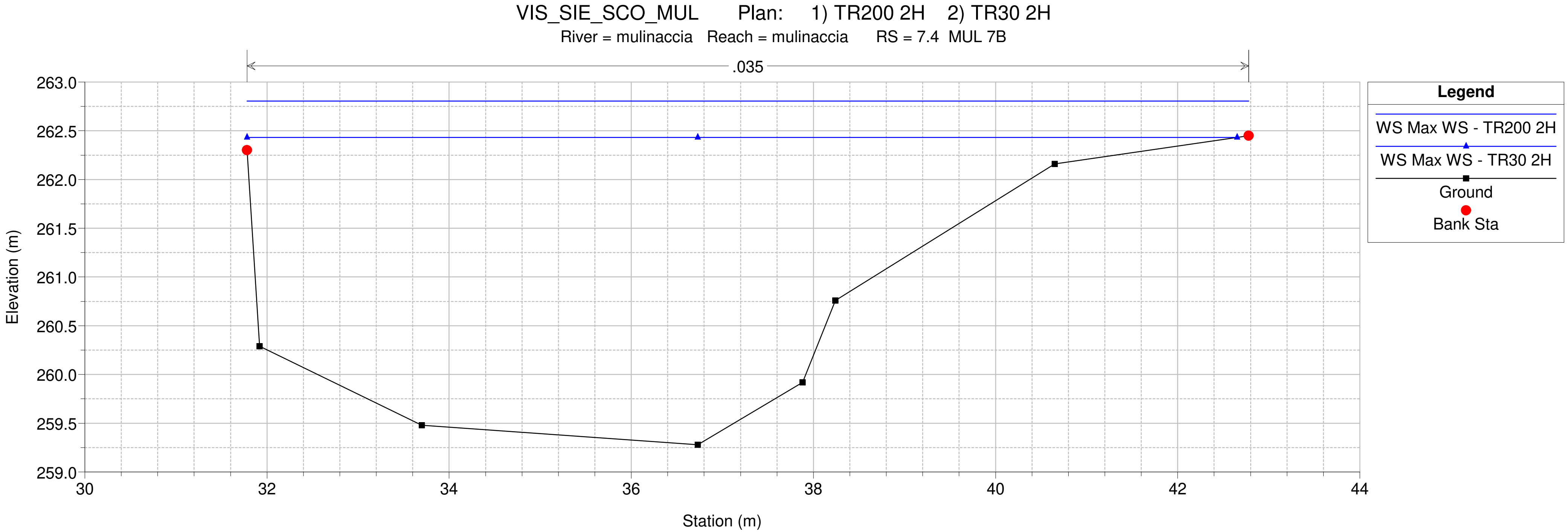

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 8.3 MUL 8A
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
264
263
262
261
260
259
2
4
6
8
10
12
14
16


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 8.2 BR MUL 8A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

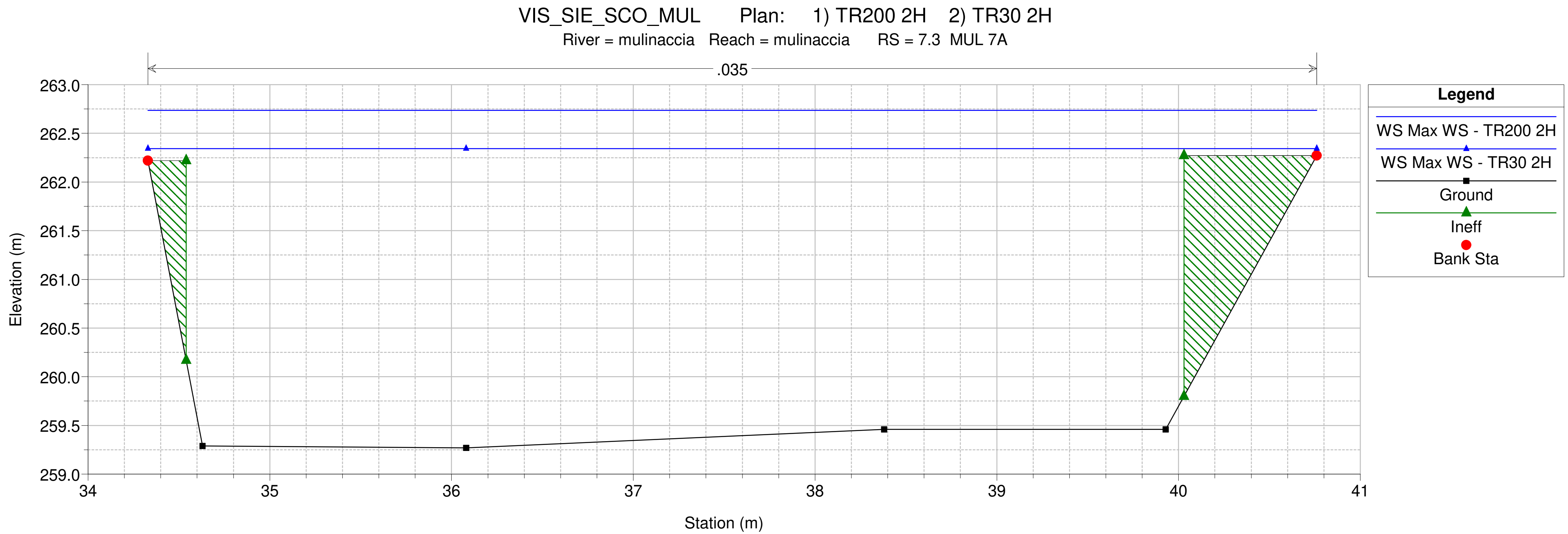

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 8.1 MUL 8A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

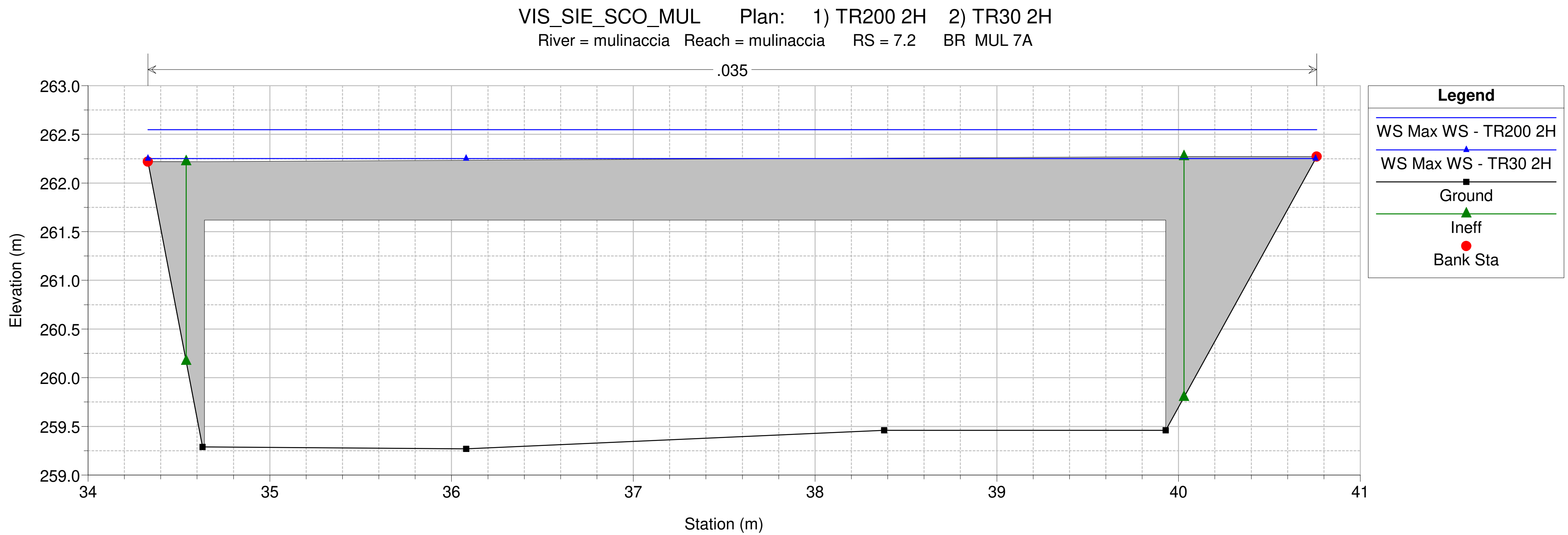


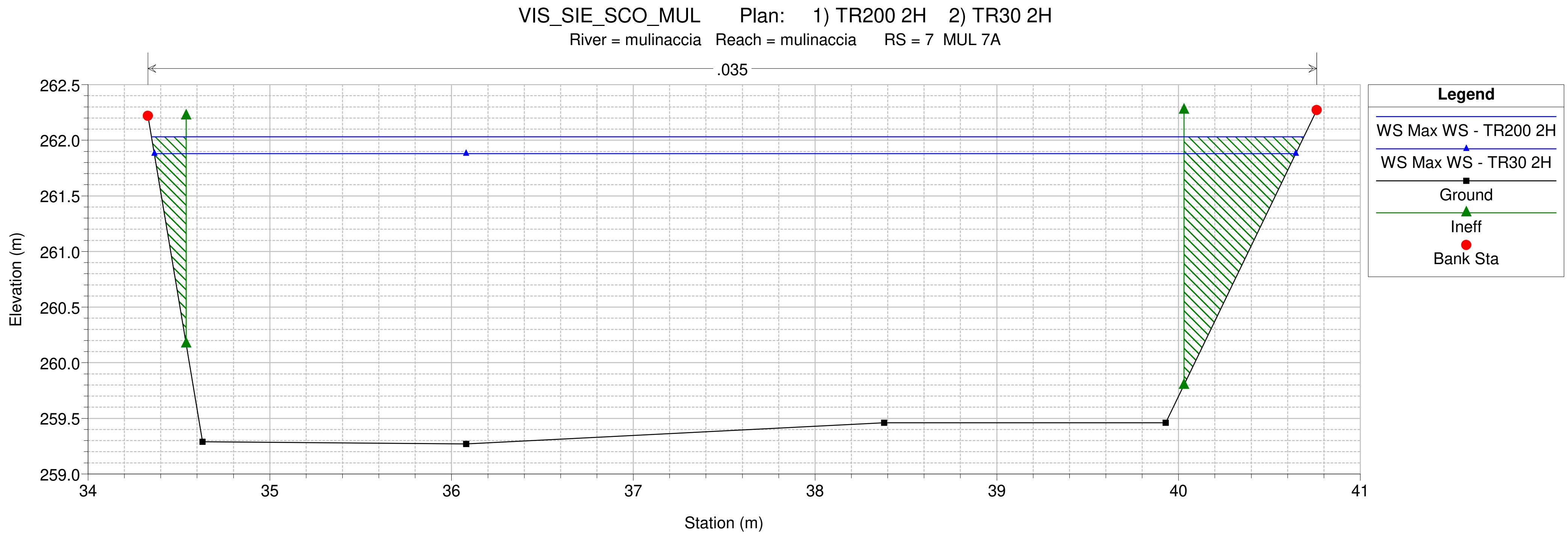
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 8 MUL 7B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta



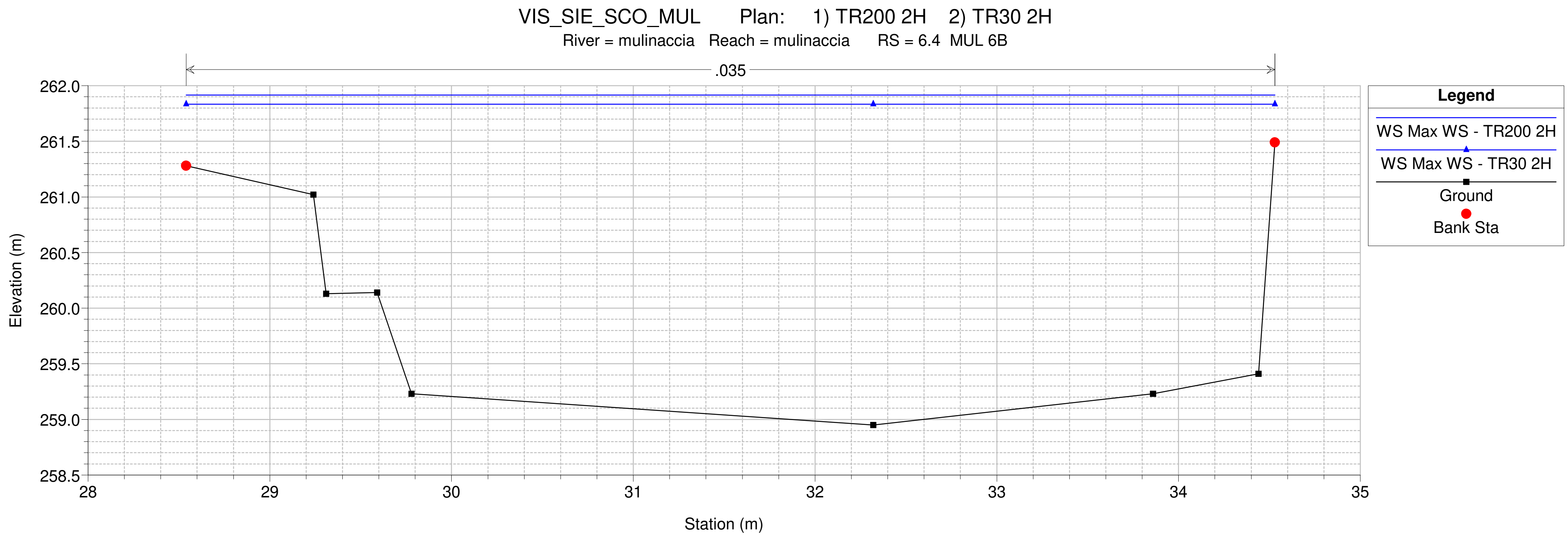
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 7.4 MUL 7B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 7.3 MUL 7A
.035
Elevation (m)
Station (m)
263.0
262.5
262.0
261.5
261.0
260.5
260.0
259.5
259.0
34
35
36
37
38
39
40
41
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

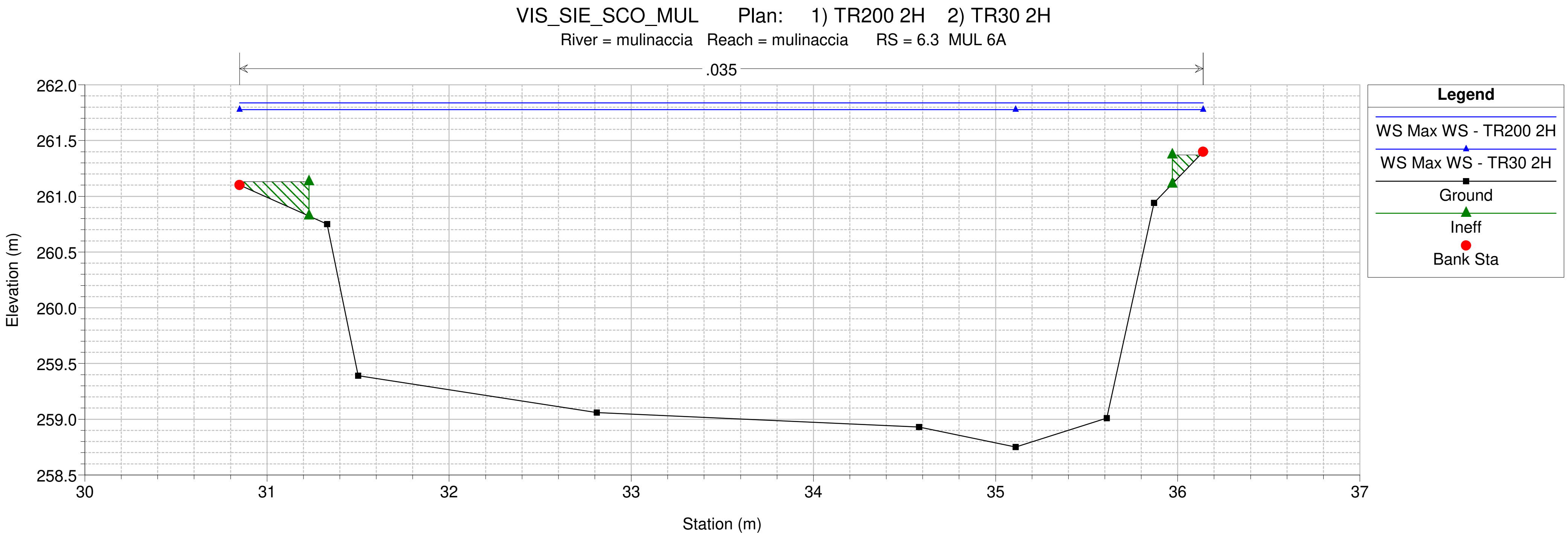

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 7.2 BR MUL 7A
.035
Elevation (m)
Station (m)
263.0
262.5
262.0
261.5
261.0
260.5
260.0
259.5
259.0
34
35
36
37
38
39
40
41
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta



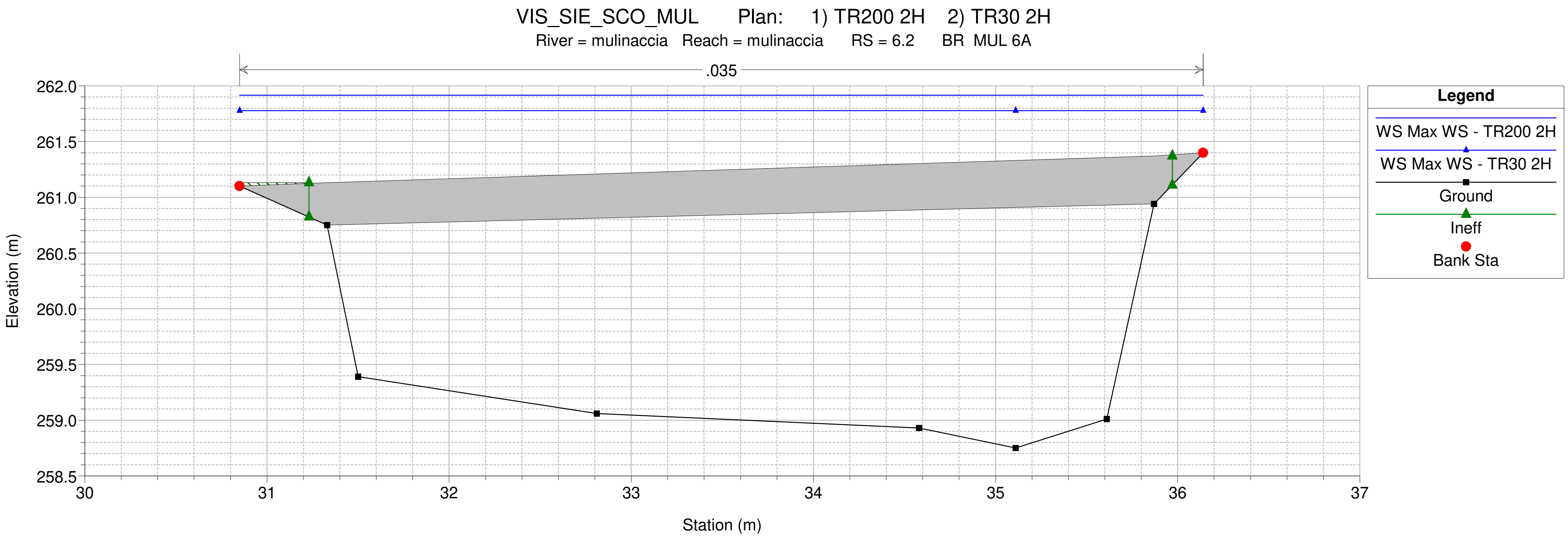
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 7 MUL 7A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta



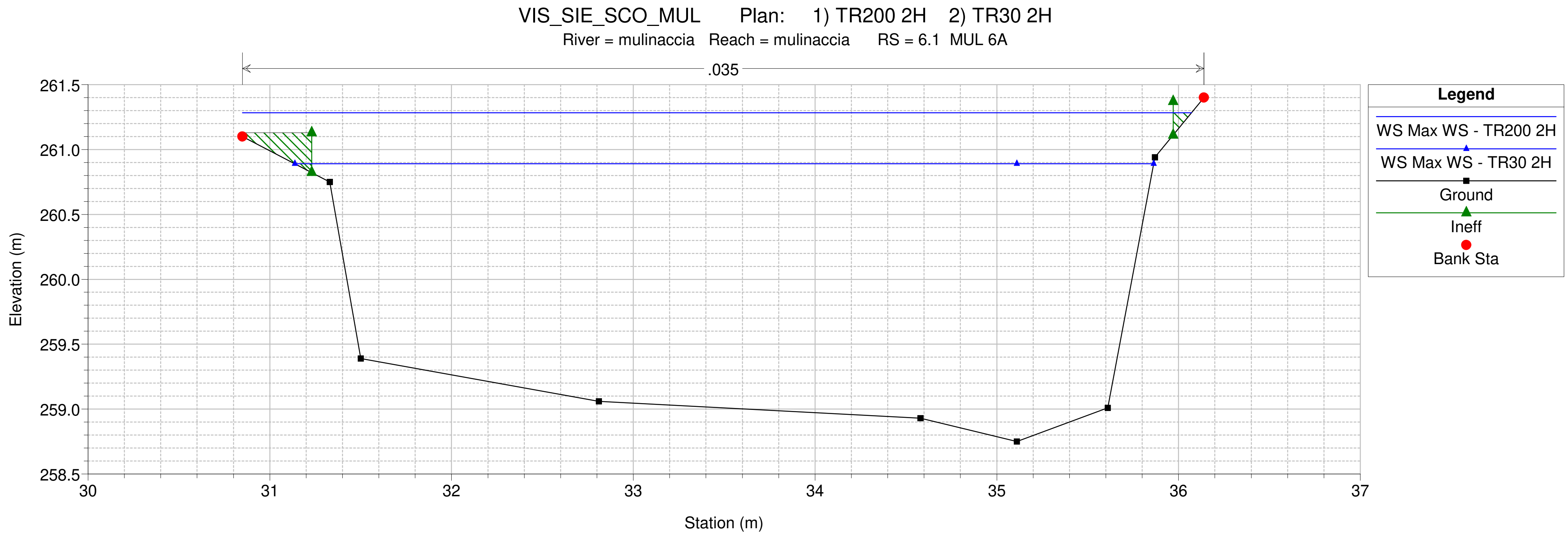
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 6.4 MUL 6B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

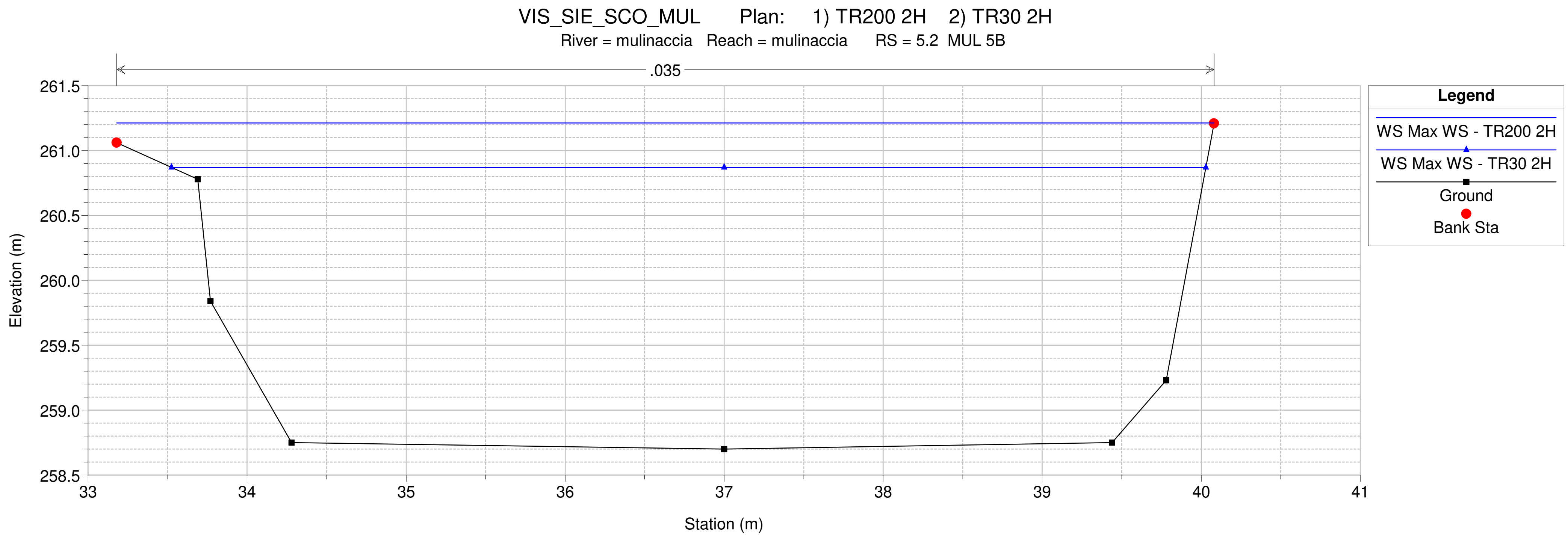


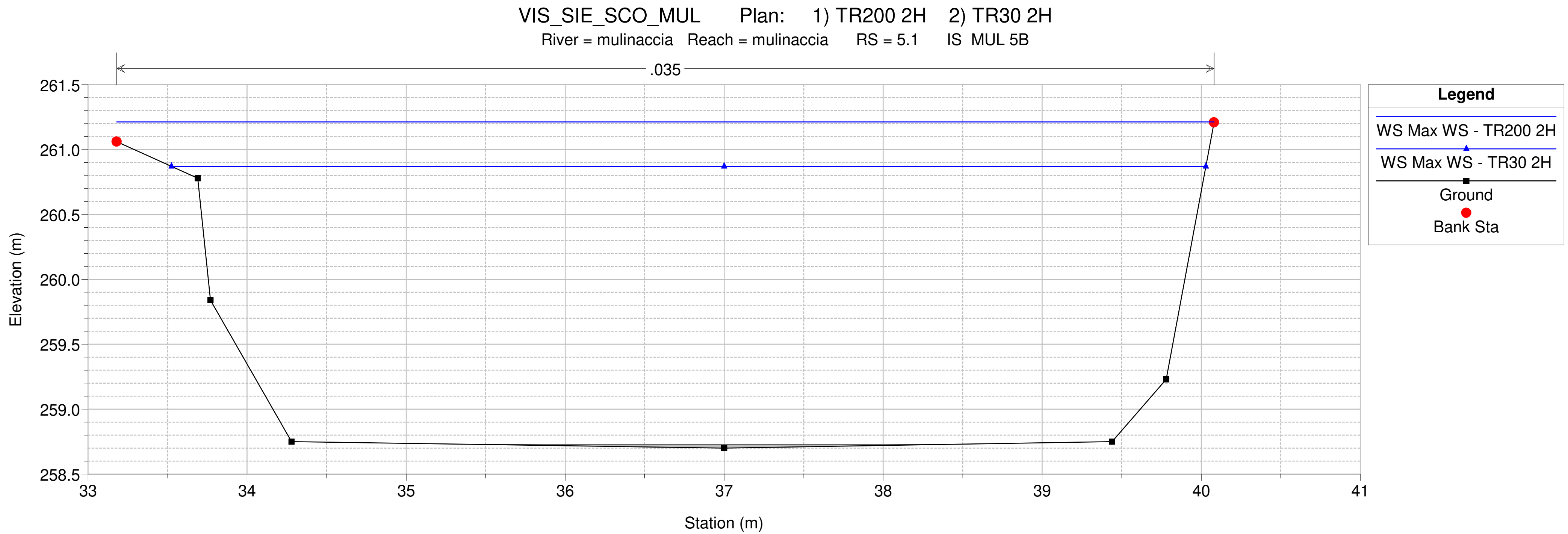
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 6.3 MUL 6A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

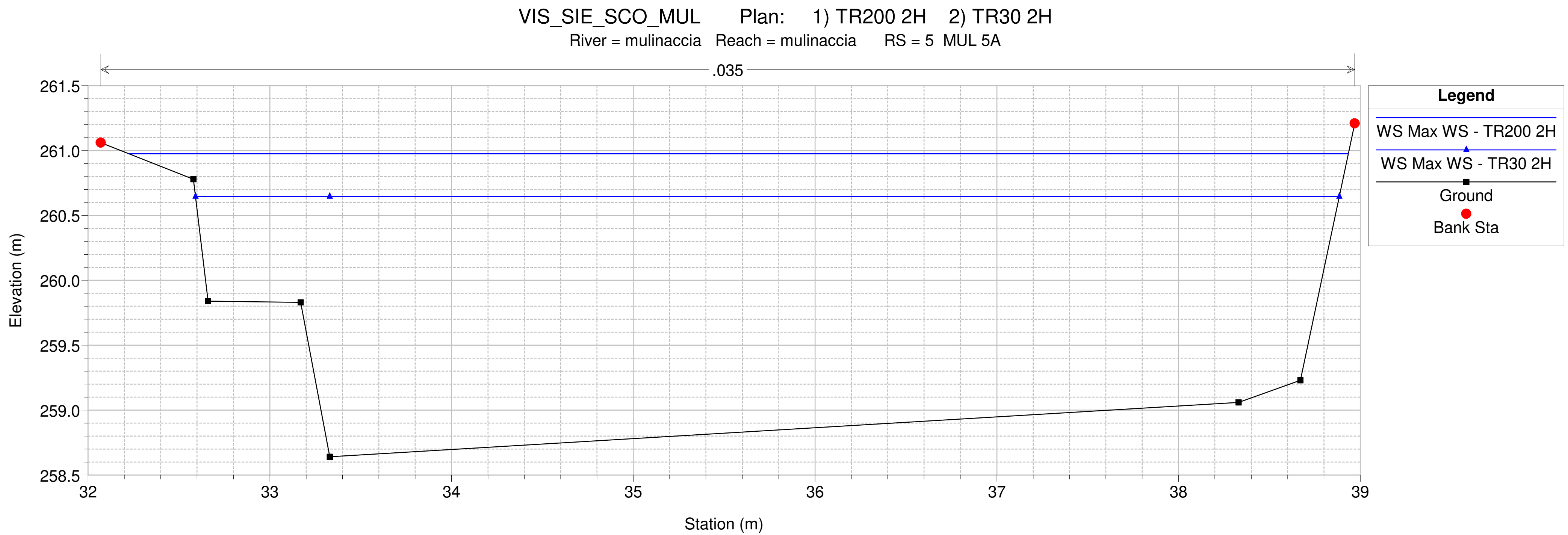


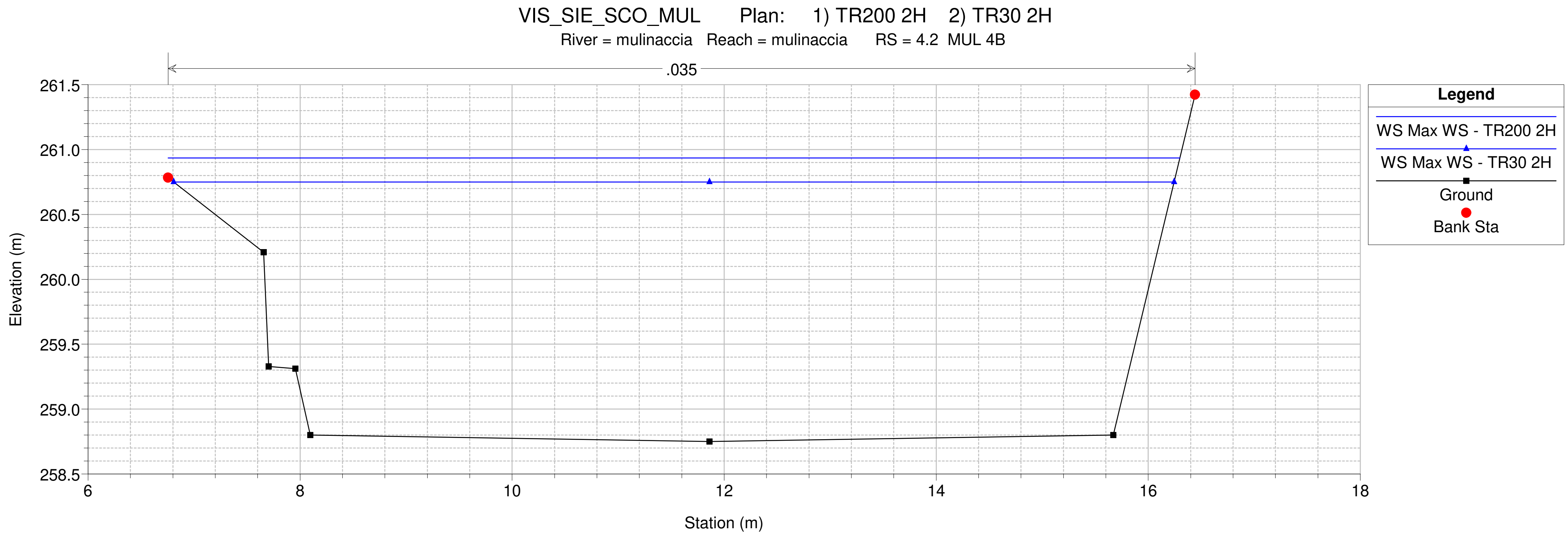
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 6.2 BR MUL 6A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

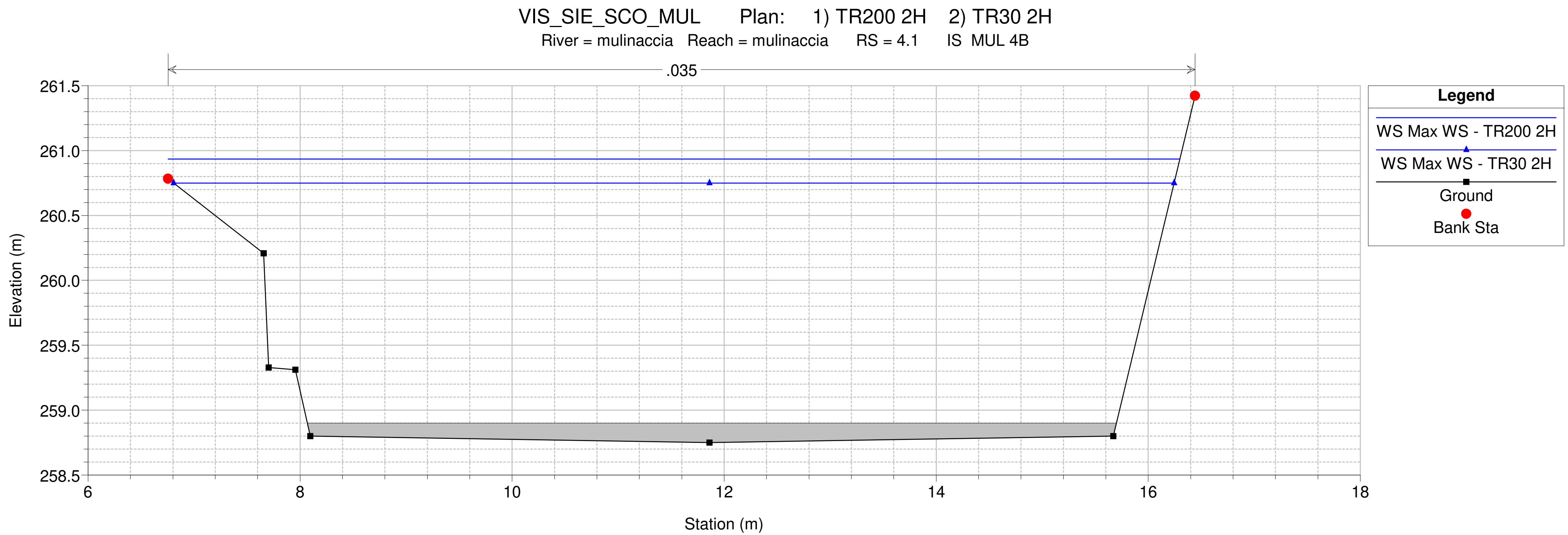

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 6.1 MUL 6A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

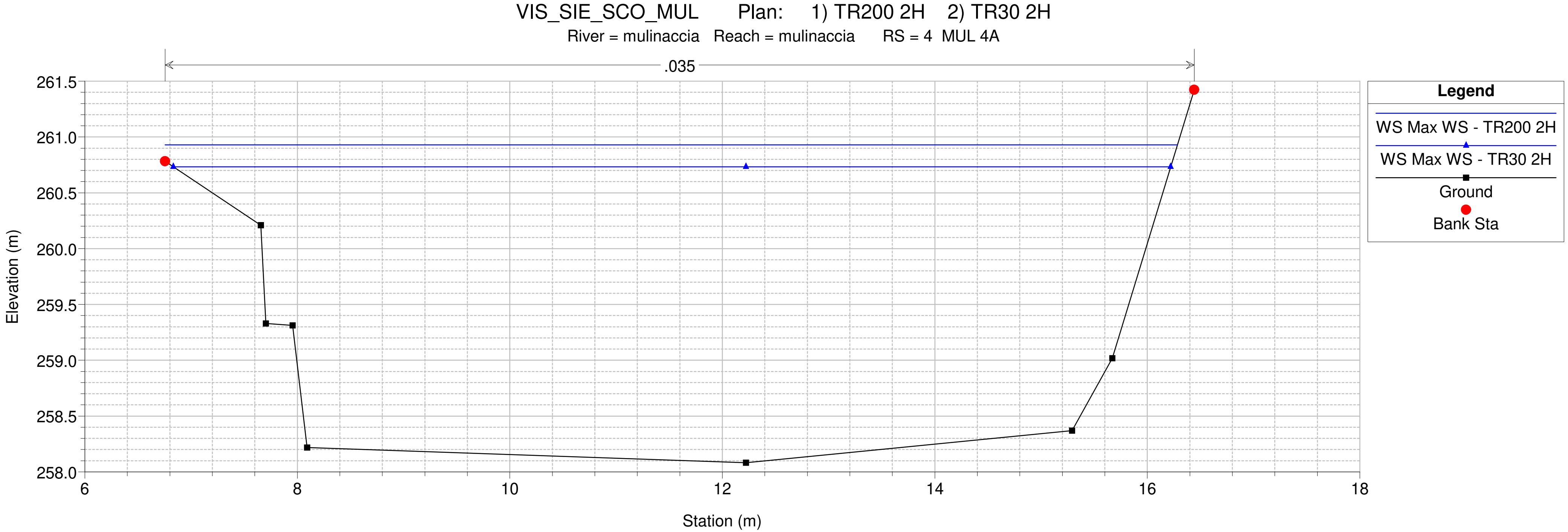

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 5.2 MUL 5B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

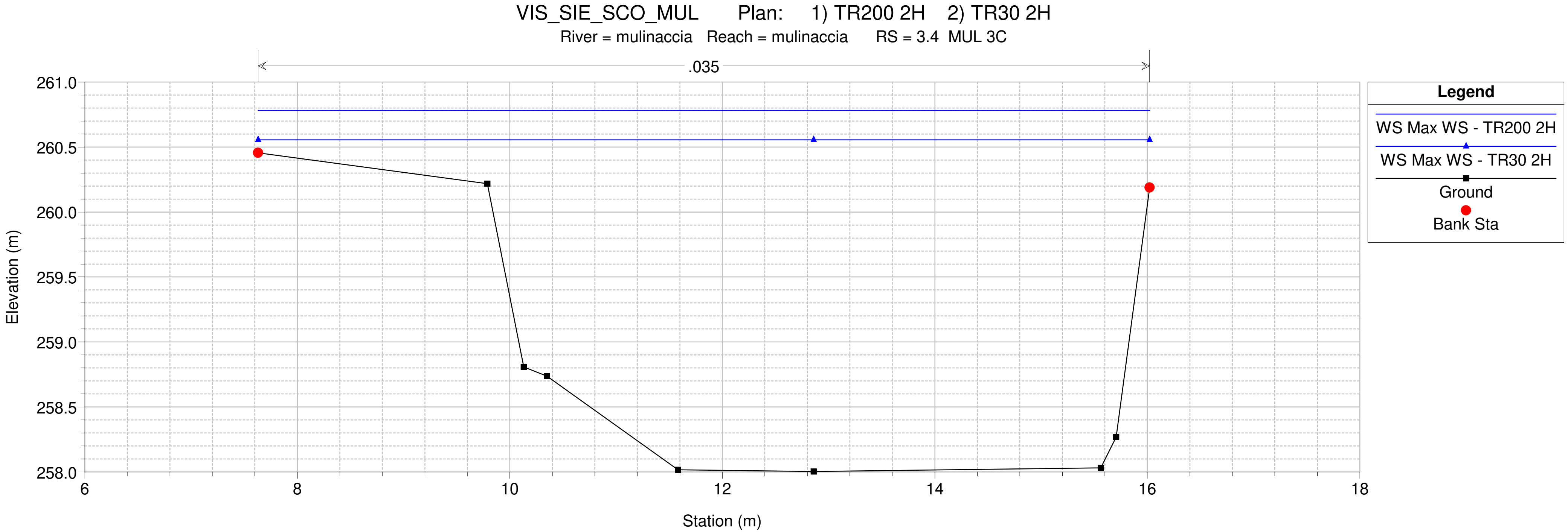

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 5.1 IS MUL 5B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

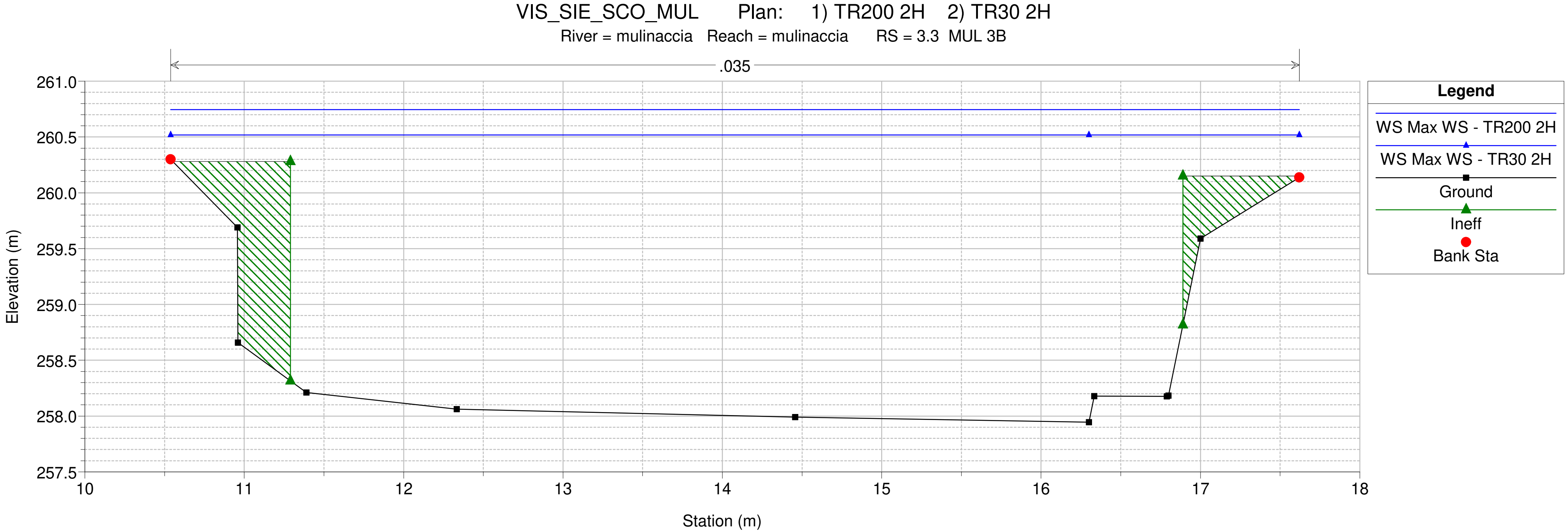

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 5 MUL 5A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 4.2 MUL 4B
.035
Elevation (m)
261.5
261.0
260.5
260.0
259.5
259.0
258.5
6
8
10
12
14
16
18
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

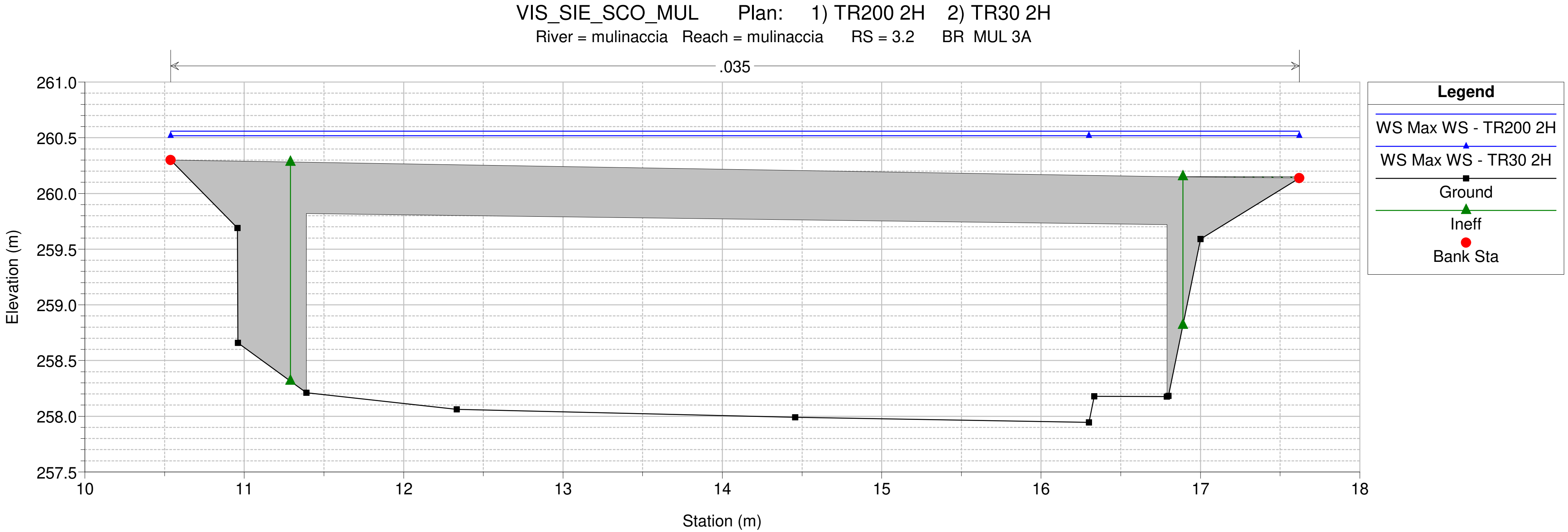

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 4.1 IS MUL 4B
.035
Elevation (m)
261.5
261.0
260.5
260.0
259.5
259.0
258.5
6
8
10
12
14
16
18
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 4 MUL 4A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

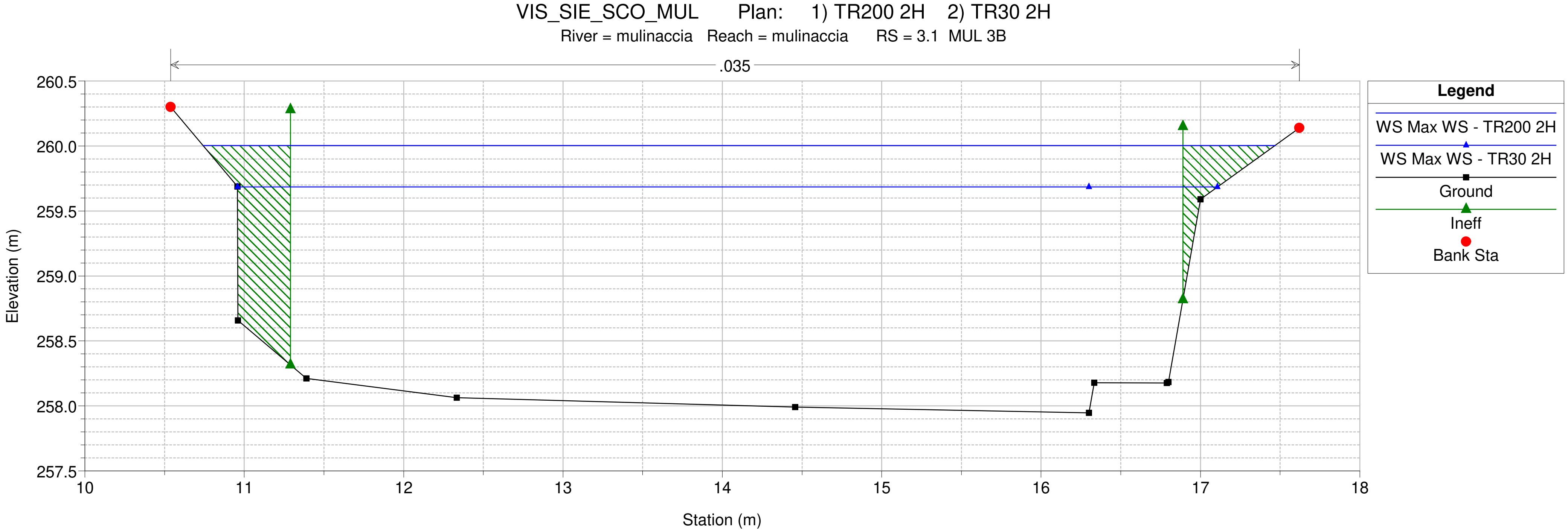

VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 3.4 MUL 3C
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta



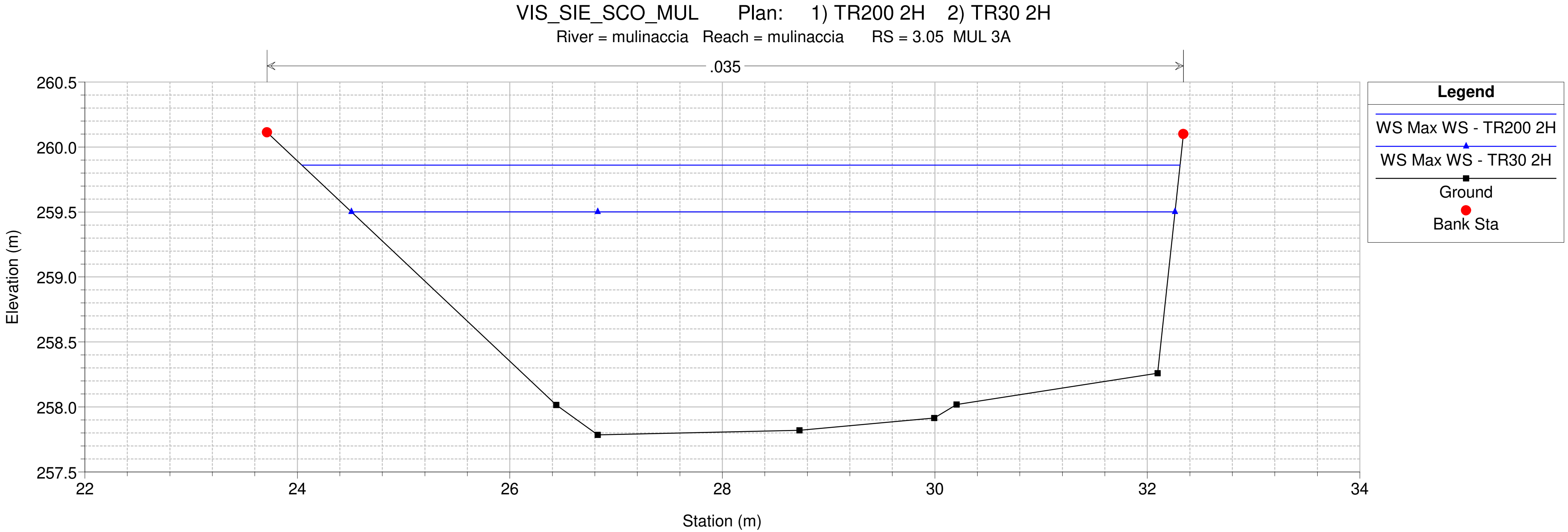
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 3.3 MUL 3B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta



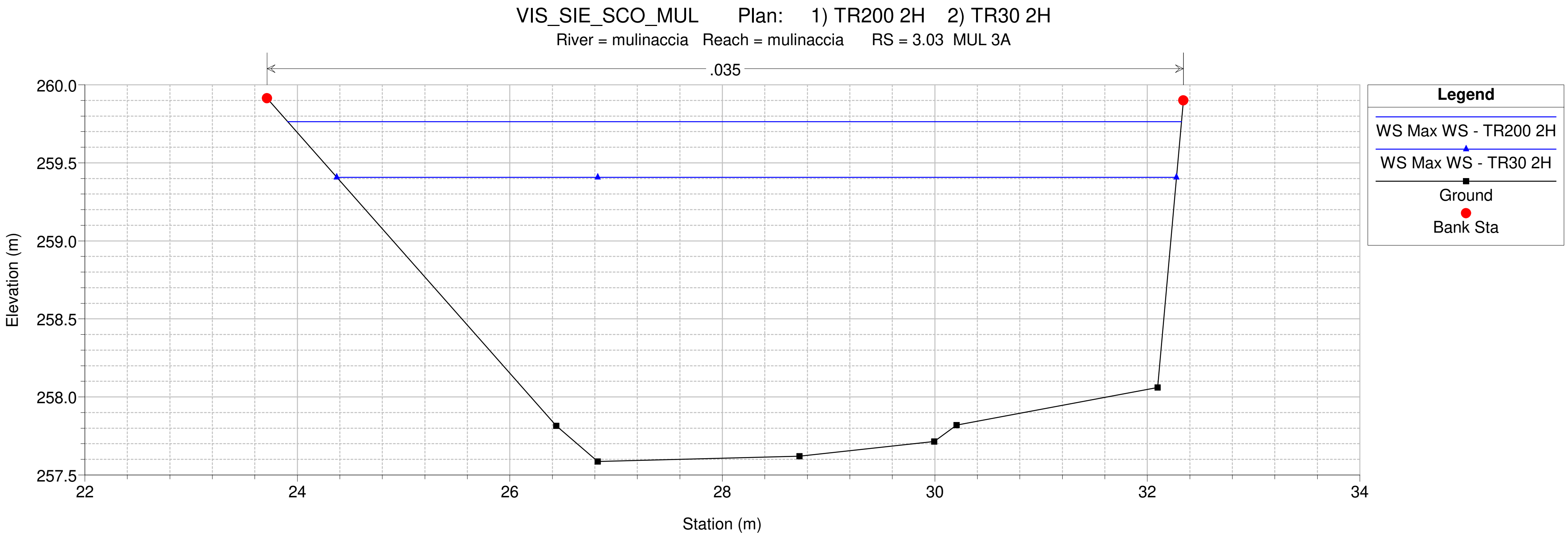
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 3.2 BR MUL 3A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta

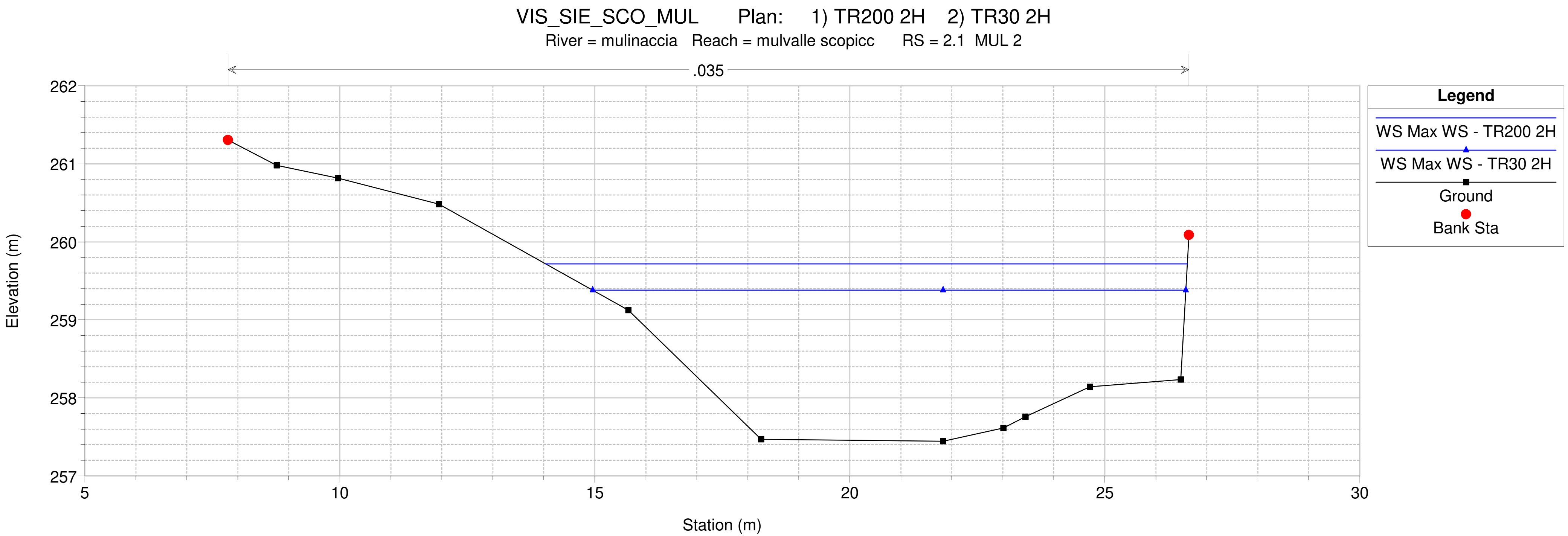


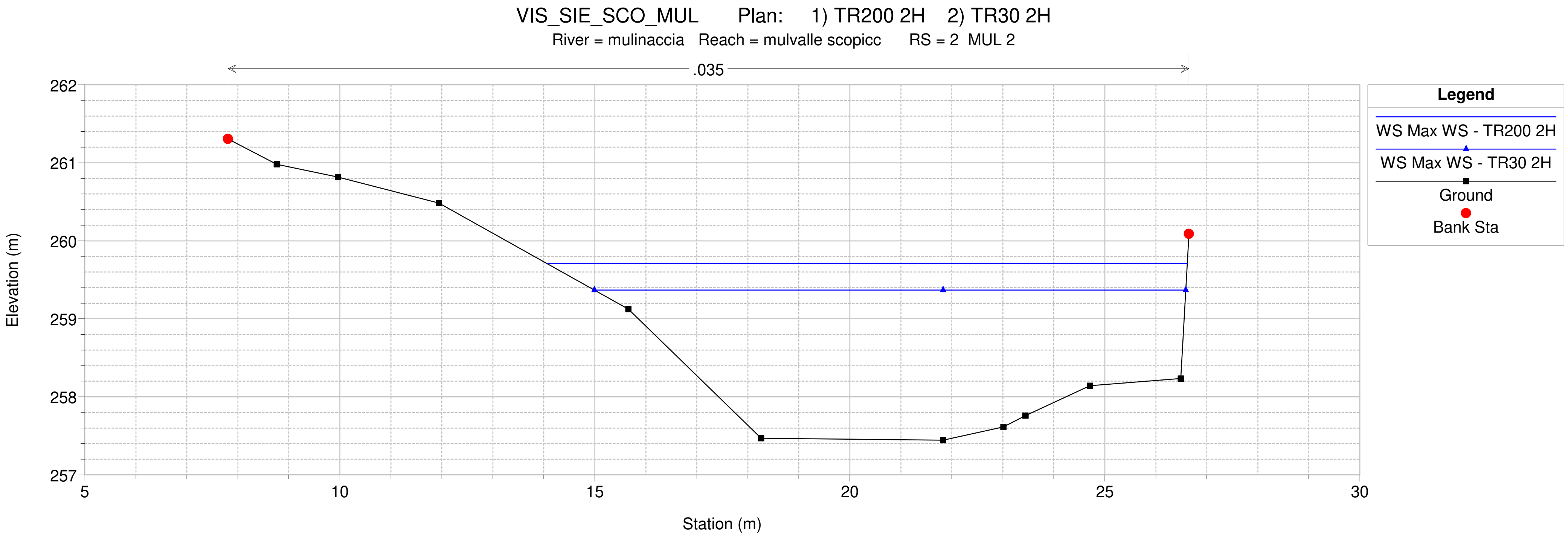
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 3.1 MUL 3B
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Ineff
Bank Sta



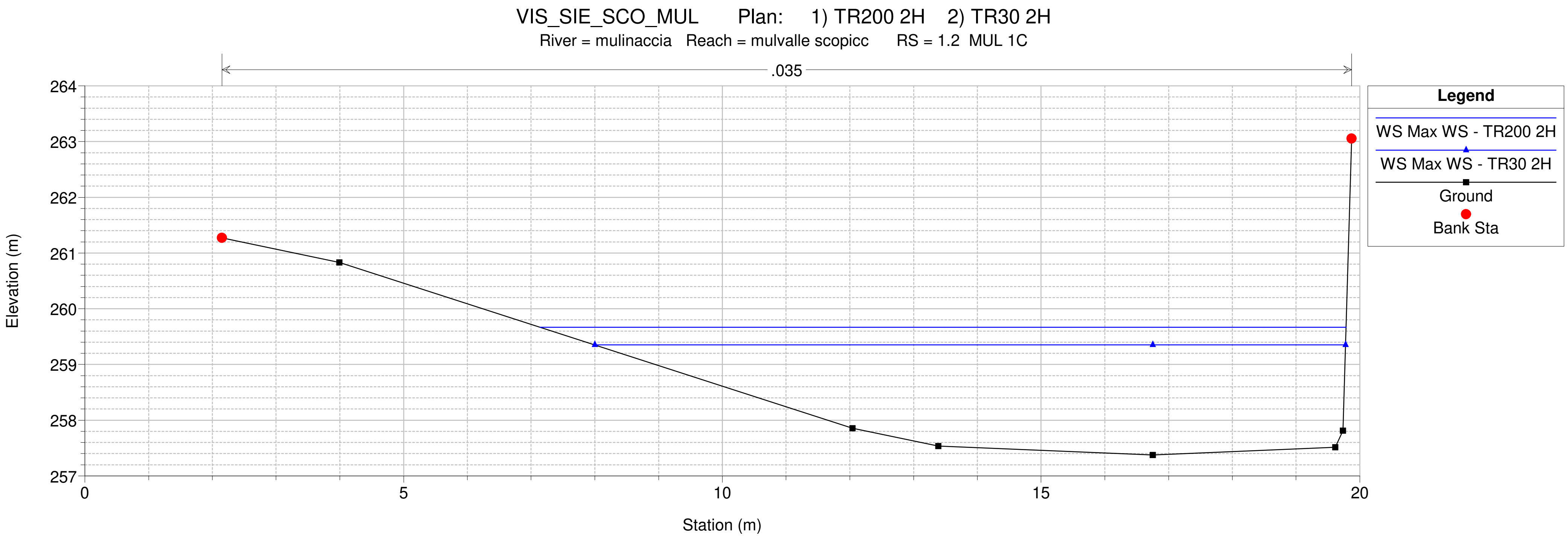
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 3.05 MUL 3A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulinaccia RS = 3.03 MUL 3A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulvalle scopicc RS = 2.1 MUL 2
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

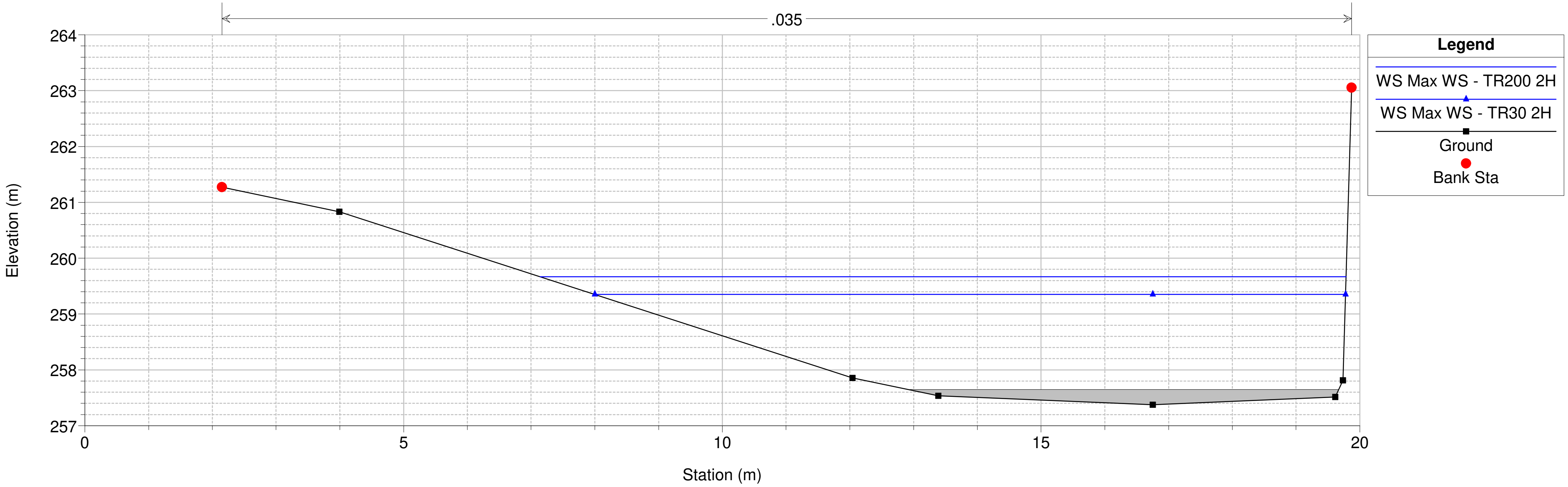


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulvalle scopicc RS = 2 MUL 2
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
262
261
260
259
258
257
5
10
15
20
25
30

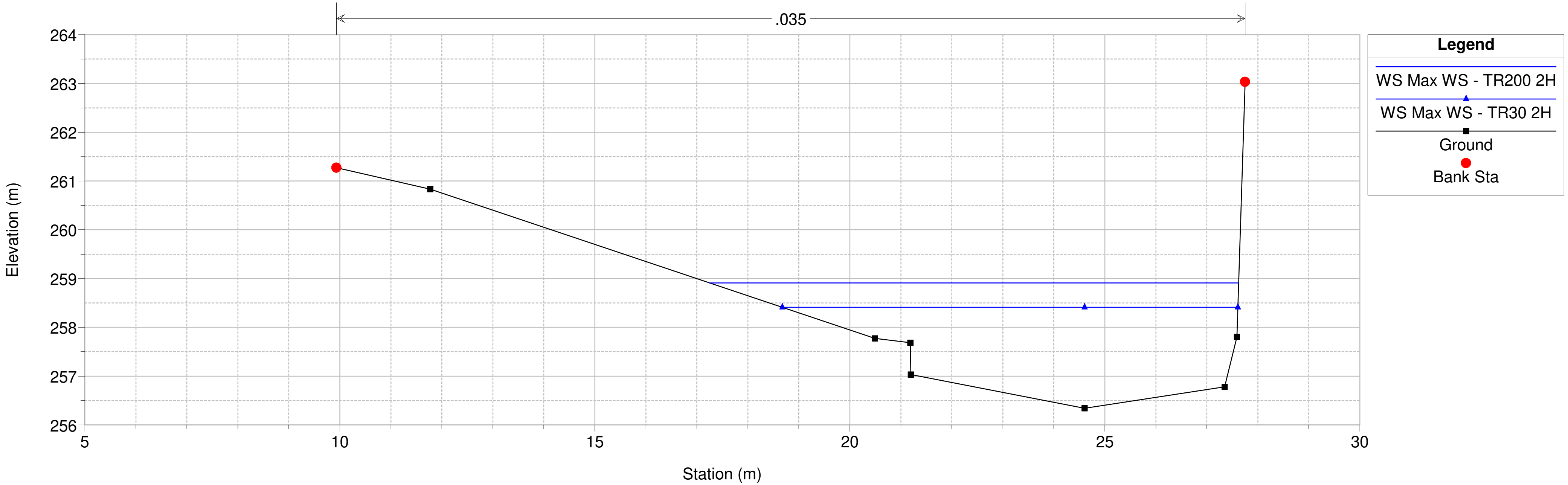


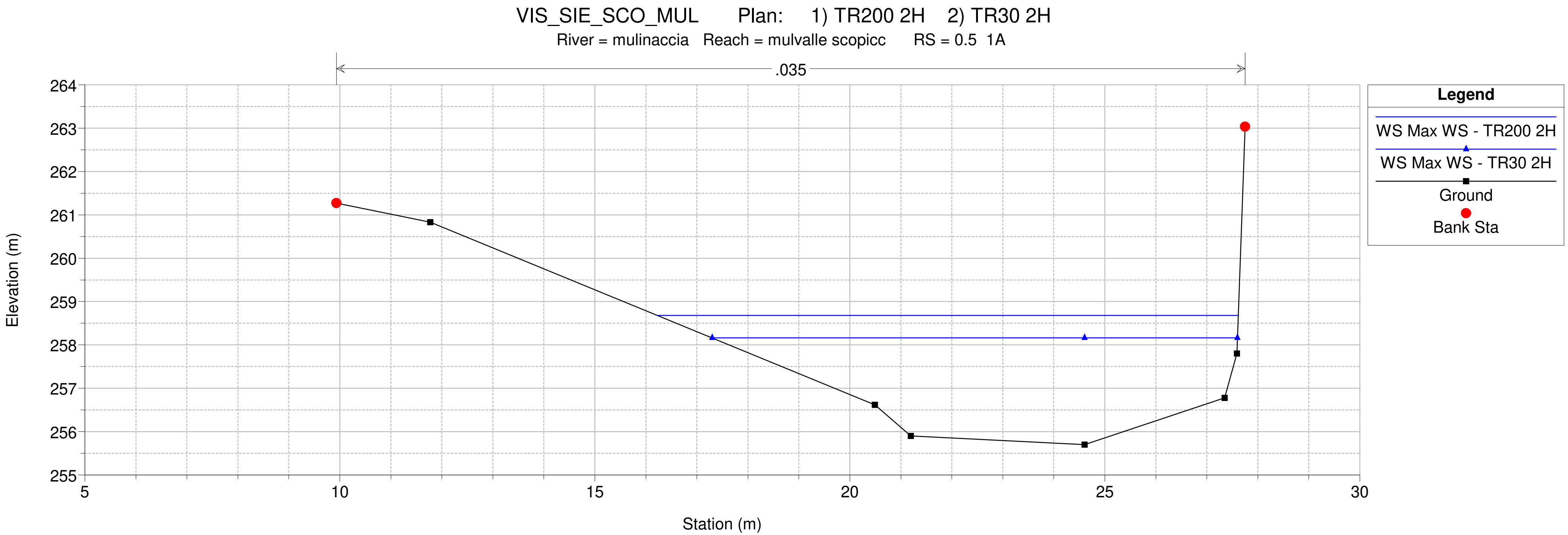
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulvalle scopicc RS = 1.2 MUL 1C
.035
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta
Elevation (m)
Station (m)
264
263
262
261
260
259
258
257
0
5
10
15
20

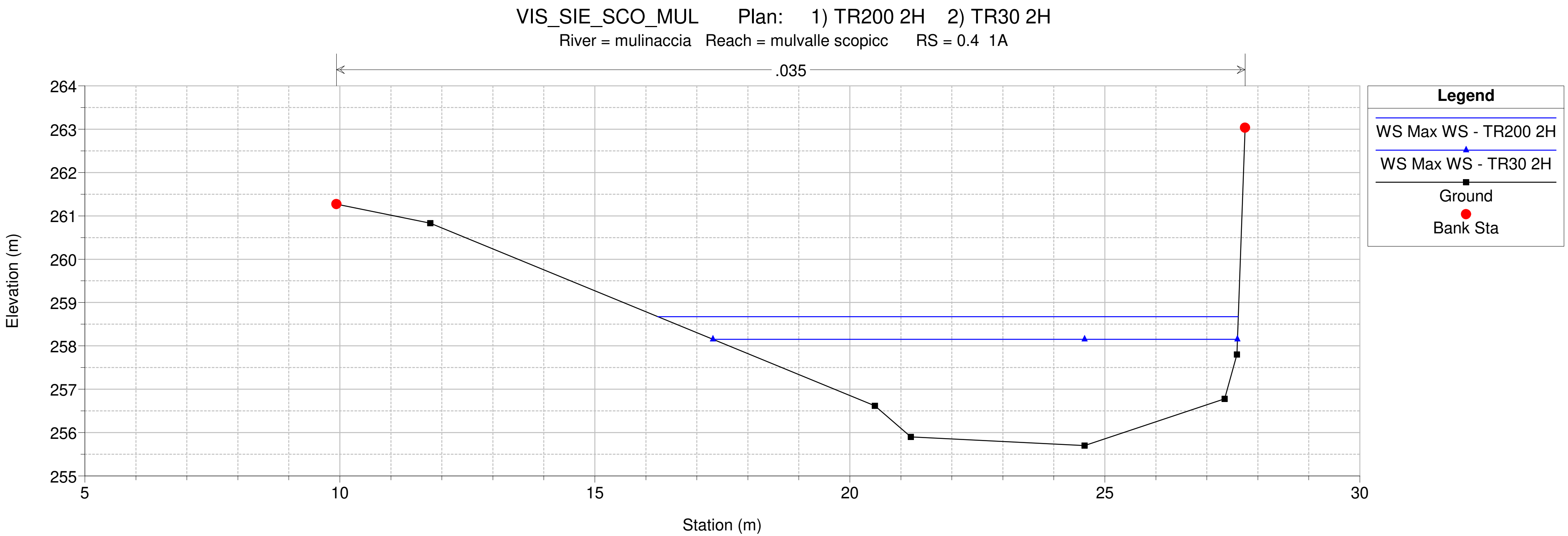
VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulvalle scopicc RS = 1.1 IS MUL 1B



VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulvalle scopicc RS = 1 MUL 1A




VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulvalle scopicc RS = 0.5 1A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 2H 2) TR30 2H
River = mulinaccia Reach = mulvalle scopicc RS = 0.4 1A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 2H
WS Max WS - TR30 2H
Ground
Bank Sta

HEC-RAS Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
mulinaccia	19	Max WS	TR200 2H	53.64	271.75	273.90	273.96	274.70	0.015045	3.96	13.53	9.61	1.07
mulinaccia	19	Max WS	TR200 1H	50.52	271.75	273.85	273.90	274.61	0.014754	3.86	13.09	9.61	1.06
mulinaccia	19	Max WS	TR30 2H	37.89	271.75	273.63	273.65	274.24	0.014156	3.45	10.97	9.61	1.03
mulinaccia	19	Max WS	TR30 1H	35.45	271.75	273.59	273.61	274.16	0.014064	3.37	10.53	9.61	1.03
mulinaccia	18.99	Max WS	TR200 2H	53.64	271.75	273.90	273.96	274.70	0.015094	3.97	13.52	9.61	1.07
mulinaccia	18.99	Max WS	TR200 1H	50.52	271.75	273.85	273.90	274.61	0.014804	3.86	13.07	9.61	1.06
mulinaccia	18.99	Max WS	TR30 2H	37.89	271.75	273.63	273.65	274.24	0.014214	3.46	10.96	9.61	1.03
mulinaccia	18.99	Max WS	TR30 1H	35.45	271.75	273.58	273.61	274.16	0.014112	3.37	10.51	9.61	1.03
mulinaccia	18.89			Lat Struct									
mulinaccia	18.88			Lat Struct									
mulinaccia	18	Max WS	TR200 2H	51.19	271.54	273.32	273.36	274.06	0.013956	3.81	13.44	9.88	1.04
mulinaccia	18	Max WS	TR200 1H	48.61	271.54	273.29	273.31	273.99	0.013660	3.72	13.08	9.88	1.03
mulinaccia	18	Max WS	TR30 2H	37.56	271.54	273.08	273.10	273.67	0.013682	3.41	11.03	9.88	1.03
mulinaccia	18	Max WS	TR30 1H	35.28	271.54	273.03	273.05	273.60	0.013602	3.33	10.60	9.85	1.02
mulinaccia	17.4	Max WS	TR200 2H	49.27	270.77	272.70	272.79	273.57	0.017003	4.14	11.89	8.18	1.10
mulinaccia	17.4	Max WS	TR200 1H	47.76	270.77	272.66	272.76	273.53	0.017330	4.13	11.57	8.18	1.11
mulinaccia	17.4	Max WS	TR30 2H	37.15	270.77	272.46	272.53	273.17	0.016602	3.75	9.92	8.18	1.09
mulinaccia	17.4	Max WS	TR30 1H	34.54	270.77	272.43	272.47	273.08	0.015377	3.56	9.69	8.18	1.05
mulinaccia	17.3	Max WS	TR200 2H	50.39	271.04	272.60	272.60	273.27	0.013374	3.61	13.95	10.43	1.00
mulinaccia	17.3	Max WS	TR200 1H	47.72	271.04	272.56	272.55	273.19	0.013162	3.53	13.53	10.43	0.99
mulinaccia	17.3	Max WS	TR30 2H	37.02	271.04	272.36	272.35	272.89	0.013260	3.24	11.43	10.43	0.99
mulinaccia	17.3	Max WS	TR30 1H	35.14	271.04	272.34	272.31	272.84	0.012566	3.12	11.25	10.43	0.96
mulinaccia	17.2			Inl Struct									
mulinaccia	17.1	Max WS	TR200 2H	50.39	270.45	272.30	272.25	272.92	0.011773	3.49	14.44	10.43	0.95
mulinaccia	17.1	Max WS	TR200 1H	47.55	270.45	272.25	272.20	272.84	0.011591	3.40	13.97	10.43	0.94
mulinaccia	17.1	Max WS	TR30 2H	36.99	270.45	272.02	272.00	272.54	0.012518	3.20	11.56	10.43	0.97
mulinaccia	17.1	Max WS	TR30 1H	36.22	270.45	271.99	271.99	272.52	0.013316	3.24	11.18	10.43	1.00
mulinaccia	17.09			Lat Struct									
mulinaccia	17.08			Lat Struct									
mulinaccia	17	Max WS	TR200 2H	52.64	270.02	272.15	272.30	272.92	0.020733	3.89	13.52	13.16	1.23
mulinaccia	17	Max WS	TR200 1H	49.43	270.02	272.10	272.25	272.85	0.021185	3.83	12.90	13.16	1.24
mulinaccia	17	Max WS	TR30 2H	37.67	270.02	271.85	272.05	272.58	0.021618	3.78	9.98	10.51	1.24
mulinaccia	17	Max WS	TR30 1H	36.16	270.02	271.81	272.01	272.55	0.021918	3.81	9.50	9.96	1.24
mulinaccia	16	Max WS	TR200 2H	54.28	268.97	271.27	271.29	271.91	0.012734	3.54	15.35	12.34	1.01
mulinaccia	16	Max WS	TR200 1H	51.35	268.97	271.23	271.23	271.84	0.012610	3.48	14.77	12.10	1.00
mulinaccia	16	Max WS	TR30 2H	37.88	268.97	270.97	270.95	271.49	0.012241	3.20	11.85	10.77	0.97
mulinaccia	16	Max WS	TR30 1H	35.45	268.97	270.92	270.89	271.42	0.012229	3.15	11.26	10.49	0.97
mulinaccia	15	Max WS	TR200 2H	54.08	268.83	271.04	271.17	271.85	0.016738	3.99	13.55	10.93	1.14
mulinaccia	15	Max WS	TR200 1H	51.33	268.83	270.99	271.12	271.78	0.016711	3.94	13.04	10.74	1.14
mulinaccia	15	Max WS	TR30 2H	37.88	268.83	270.74	270.83	271.41	0.016422	3.62	10.46	9.73	1.11
mulinaccia	15	Max WS	TR30 1H	35.31	268.83	270.69	270.77	271.33	0.016356	3.55	9.94	9.51	1.11
mulinaccia	14	Max WS	TR200 2H	53.94	267.15	269.08	269.17	269.80	0.015774	3.75	14.39	12.61	1.12
mulinaccia	14	Max WS	TR200 1H	51.14	267.15	269.03	269.13	269.73	0.015602	3.72	13.75	12.09	1.11
mulinaccia	14	Max WS	TR30 2H	37.87	267.15	268.77	268.81	269.38	0.014065	3.45	10.97	9.94	1.05
mulinaccia	14	Max WS	TR30 1H	35.26	267.15	268.71	268.75	269.30	0.014069	3.38	10.42	9.75	1.04
mulinaccia	13	Max WS	TR200 2H	53.45	265.91	268.00	268.04	268.69	0.014218	3.69	14.49	11.50	1.05
mulinaccia	13	Max WS	TR200 1H	50.75	265.91	267.95	267.99	268.62	0.014280	3.63	13.97	11.43	1.05
mulinaccia	13	Max WS	TR30 2H	37.84	265.91	267.72	267.76	268.29	0.014735	3.33	11.37	11.09	1.05
mulinaccia	13	Max WS	TR30 1H	35.23	265.91	267.67	267.71	268.21	0.015063	3.27	10.76	11.01	1.06
mulinaccia	12.2	Max WS	TR200 2H	53.04	265.40	267.39	267.37	268.02	0.012385	3.53	15.03	11.44	0.98
mulinaccia	12.2	Max WS	TR200 1H	50.88	265.40	267.33	267.33	267.97	0.012836	3.52	14.44	11.37	1.00
mulinaccia	12.2	Max WS	TR30 2H	37.75	265.40	267.06	267.05	267.61	0.013423	3.30	11.42	10.30	1.00
mulinaccia	12.2	Max WS	TR30 1H	34.71	265.40	267.00	266.99	267.52	0.013097	3.21	10.82	10.01	0.99
mulinaccia	12.1			Inl Struct									
mulinaccia	12	Max WS	TR200 2H	54.03	264.11	267.04	267.04	267.76	0.014314	3.74	14.45	10.18	1.00
mulinaccia	12	Max WS	TR200 1H	50.96	264.11	266.99	266.98	267.67	0.014046	3.67	13.89	9.89	0.99
mulinaccia	12	Max WS	TR30 2H	37.93	264.11	266.68	266.61	267.28	0.013466	3.42	11.09	8.30	0.94
mulinaccia	12	Max WS	TR30 1H	35.32	264.11	266.61	266.52	267.18	0.013288	3.36	10.51	7.93	0.93
mulinaccia	11.99			Lat Struct									
mulinaccia	11.98			Lat Struct									
mulinaccia	11	Max WS	TR200 2H	53.77	263.34	265.64	265.67	266.34	0.014201	3.72	14.46	11.01	1.04
mulinaccia	11	Max WS	TR200 1H	50.99	263.34	265.59	265.63	266.27	0.014463	3.68	13.87	10.95	1.04
mulinaccia	11	Max WS	TR30 2H	37.85	263.34	265.31	265.37	265.92	0.015412	3.47	10.92	10.02	1.06
mulinaccia	11	Max WS	TR30 1H	35.21	263.34	265.24	265.30	265.84	0.015404	3.43	10.26	9.53	1.06
mulinaccia	10.4	Max WS	TR200 2H	54.02	261.32	264.04	263.92	264.70	0.010829	3.61	14.98	9.37	0.91
mulinaccia	10.4	Max WS	TR200 1H	51.00	261.32	263.86	263.85	264.60	0.013163	3.83	13.32	8.83	1.00
mulinaccia	10.4	Max WS	TR30 2H	37.85	261.32	263.54	263.50	264.18	0.013071	3.55	10.66	7.89	0.97
mulinaccia	10.4	Max WS	TR30 1H	35.19	261.32	263.47	263.43	264.08	0.012940	3.47	10.13	7.68	0.97
mulinaccia	10.3	Max WS	TR200 2H	53.93	261.75	263.99	263.51	264.39	0.005527	2.80	19.24	10.41	0.66

HEC-RAS   Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
mulinaccia	10.3	Max WS	TR200 1H	50.95	261.75	263.87	263.45	264.28	0.005985	2.83	18.00	10.29	0.68
mulinaccia	10.3	Max WS	TR30 2H	37.85	261.75	263.54	263.18	263.88	0.006025	2.58	14.64	9.93	0.68
mulinaccia	10.3	Max WS	TR30 1H	35.19	261.75	263.47	263.12	263.79	0.005989	2.52	13.96	9.85	0.68
mulinaccia	10.2			Bridge									
mulinaccia	10.1	Max WS	TR200 2H	53.93	261.75	263.92	263.51	264.35	0.006216	2.92	18.47	10.34	0.70
mulinaccia	10.1	Max WS	TR200 1H	50.95	261.75	263.76	263.45	264.23	0.007243	3.02	16.85	10.17	0.75
mulinaccia	10.1	Max WS	TR30 2H	37.85	261.75	263.41	263.18	263.82	0.007877	2.83	13.37	9.79	0.77
mulinaccia	10.1	Max WS	TR30 1H	35.19	261.75	263.33	263.12	263.73	0.008162	2.80	12.57	9.70	0.78
mulinaccia	10.09			Lat Struct									
mulinaccia	10.08			Lat Struct									
mulinaccia	10	Max WS	TR200 2H	53.87	260.97	263.81	263.30	264.19	0.005289	2.72	19.83	11.47	0.66
mulinaccia	10	Max WS	TR200 1H	50.93	260.97	263.67	263.23	264.07	0.005987	2.80	18.19	11.09	0.70
mulinaccia	10	Max WS	TR30 2H	37.84	260.97	263.28	262.91	263.65	0.006471	2.68	14.12	9.77	0.71
mulinaccia	10	Max WS	TR30 1H	35.19	260.97	263.19	262.84	263.55	0.006683	2.66	13.21	9.45	0.72
mulinaccia	9	Max WS	TR200 2H	53.79	259.57	263.59	262.73	263.85	0.004034	2.24	23.98	13.16	0.53
mulinaccia	9	Max WS	TR200 1H	50.92	259.57	263.48	262.64	263.74	0.004371	2.26	22.54	13.12	0.55
mulinaccia	9	Max WS	TR30 2H	37.84	259.57	263.02	262.11	263.28	0.005368	2.26	16.75	11.32	0.59
mulinaccia	9	Max WS	TR30 1H	35.18	259.57	262.90	262.03	263.17	0.005330	2.27	15.50	10.06	0.58
mulinaccia	8.4	Max WS	TR200 2H	53.74	259.57	263.39	262.73	263.71	0.005751	2.52	21.35	13.08	0.63
mulinaccia	8.4	Max WS	TR200 1H	50.91	259.57	263.16	262.64	263.55	0.007709	2.76	18.45	12.26	0.72
mulinaccia	8.4	Max WS	TR30 2H	37.84	259.57	262.63	262.12	263.06	0.009276	2.92	12.96	8.35	0.75
mulinaccia	8.4	Max WS	TR30 1H	35.17	259.57	262.50	262.03	262.94	0.009579	2.95	11.92	7.55	0.75
mulinaccia	8.3	Max WS	TR200 2H	53.07	259.50	263.36	261.75	263.54	0.001822	1.85	28.75	11.24	0.37
mulinaccia	8.3	Max WS	TR200 1H	50.61	259.50	263.24	261.70	263.41	0.001923	1.85	27.31	11.24	0.38
mulinaccia	8.3	Max WS	TR30 2H	37.84	259.50	262.73	261.41	262.87	0.001545	1.70	22.28	10.83	0.35
mulinaccia	8.3	Max WS	TR30 1H	35.16	259.50	262.60	261.35	262.74	0.001576	1.67	21.10	10.45	0.35
mulinaccia	8.2			Bridge									
mulinaccia	8.1	Max WS	TR200 2H	53.07	259.50	262.76	261.75	263.04	0.002918	2.35	22.58	10.93	0.47
mulinaccia	8.1	Max WS	TR200 1H	50.61	259.50	262.64	261.70	262.93	0.003068	2.35	21.53	10.59	0.49
mulinaccia	8.1	Max WS	TR30 2H	37.83	259.50	262.41	261.41	262.60	0.002367	1.95	19.39	9.89	0.42
mulinaccia	8.1	Max WS	TR30 1H	35.16	259.50	262.34	261.35	262.52	0.002263	1.87	18.76	9.69	0.41
mulinaccia	8.09			Lat Struct									
mulinaccia	8.08			Lat Struct									
mulinaccia	8	Max WS	TR200 2H	51.06	259.61	262.81	261.64	262.97	0.001809	1.82	28.04	11.68	0.38
mulinaccia	8	Max WS	TR200 1H	48.93	259.61	262.75	261.59	262.91	0.001785	1.79	27.36	11.68	0.37
mulinaccia	8	Max WS	TR30 2H	37.11	259.61	262.46	261.33	262.59	0.001501	1.54	24.05	11.68	0.34
mulinaccia	8	Max WS	TR30 1H	34.62	259.61	262.39	261.28	262.50	0.001464	1.50	23.14	11.68	0.34
mulinaccia	7.4	Max WS	TR200 2H	44.66	259.28	262.80	261.38	262.97	0.002078	1.81	24.65	11.00	0.39
mulinaccia	7.4	Max WS	TR200 1H	43.10	259.28	262.76	261.33	262.92	0.002061	1.79	24.13	11.00	0.38
mulinaccia	7.4	Max WS	TR30 2H	34.46	259.28	262.43	261.09	262.58	0.002092	1.67	20.57	10.87	0.39
mulinaccia	7.4	Max WS	TR30 1H	32.64	259.28	262.35	261.04	262.49	0.002036	1.66	19.66	10.24	0.38
mulinaccia	7.3	Max WS	TR200 2H	43.80	259.27	262.74	261.25	263.01	0.003673	2.32	18.87	6.43	0.43
mulinaccia	7.3	Max WS	TR200 1H	42.39	259.27	262.64	261.20	262.92	0.003751	2.32	18.28	6.43	0.44
mulinaccia	7.3	Max WS	TR30 2H	34.36	259.27	262.34	260.96	262.57	0.003338	2.10	16.35	6.43	0.42
mulinaccia	7.3	Max WS	TR30 1H	32.62	259.27	262.26	260.91	262.48	0.002319	2.06	15.84	6.43	0.39
mulinaccia	7.2			Bridge									
mulinaccia	7	Max WS	TR200 2H	43.80	259.27	262.03	261.25	262.49	0.003828	3.01	14.55	6.34	0.59
mulinaccia	7	Max WS	TR200 1H	42.39	259.27	261.96	261.20	262.42	0.003897	2.99	14.19	6.31	0.59
mulinaccia	7	Max WS	TR30 2H	34.36	259.27	261.88	260.97	262.20	0.002860	2.50	13.73	6.28	0.51
mulinaccia	7	Max WS	TR30 1H	32.62	259.27	261.84	260.92	262.14	0.002718	2.41	13.51	6.26	0.49
mulinaccia	6.99			Lat Struct									
mulinaccia	6.98			Lat Struct									
mulinaccia	6.4	Max WS	TR200 2H	42.08	258.95	261.92	261.13	262.33	0.006561	2.86	14.72	5.99	0.58
mulinaccia	6.4	Max WS	TR200 1H	40.83	258.95	261.91	261.07	262.30	0.006246	2.79	14.66	5.99	0.57
mulinaccia	6.4	Max WS	TR30 2H	33.31	258.95	261.83	260.81	262.11	0.004514	2.34	14.22	5.99	0.49
mulinaccia	6.4	Max WS	TR30 1H	31.78	258.95	261.79	260.77	262.05	0.004332	2.28	13.95	5.99	0.48
mulinaccia	6.3	Max WS	TR200 2H	39.87	258.75	261.84	261.18	262.33	0.008311	3.10	12.84	5.29	0.64
mulinaccia	6.3	Max WS	TR200 1H	32.31	258.75	261.81	260.86	262.14	0.005638	2.55	12.69	5.29	0.53
mulinaccia	6.3	Max WS	TR30 2H	31.52	258.75	261.78	260.83	262.10	0.005562	2.52	12.52	5.29	0.52
mulinaccia	6.3	Max WS	TR30 1H	30.25	258.75	261.73	260.78	262.04	0.005429	2.47	12.25	5.29	0.52
mulinaccia	6.2			Bridge									
mulinaccia	6.1	Max WS	TR200 2H	39.87	258.75	261.28	261.18	262.11	0.016188	4.02	9.92	5.22	0.92
mulinaccia	6.1	Max WS	TR200 1H	38.76	258.75	261.19	261.15	262.05	0.017886	4.11	9.43	5.16	0.97
mulinaccia	6.1	Max WS	TR30 2H	31.52	258.75	260.89	260.84	261.68	0.017791	3.93	8.01	4.72	0.96
mulinaccia	6.1	Max WS	TR30 1H	30.25	258.75	260.84	260.79	261.61	0.017924	3.89	7.78	4.65	0.96
mulinaccia	5.2	Max WS	TR200 2H	39.87	258.70	261.21	260.44	261.57	0.005358	2.64	15.10	6.90	0.57
mulinaccia	5.2	Max WS	TR200 1H	38.75	258.70	261.15	260.41	261.50	0.005530	2.65	14.62	6.89	0.58
mulinaccia	5.2	Max WS	TR30 2H	31.52	258.70	260.87	260.20	261.18	0.005204	2.47	12.77	6.50	0.56

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
mulinaccia	5.2	Max WS	TR30 1H	30.25	258.70	260.81	260.16	261.12	0.005155	2.44	12.40	6.39	0.56
mulinaccia	5.1			Inl Struct									
mulinaccia	5	Max WS	TR200 2H	39.87	258.64	260.98	260.61	261.50	0.009718	3.21	12.43	6.71	0.75
mulinaccia	5	Max WS	TR200 1H	38.75	258.64	260.90	260.58	261.44	0.010265	3.26	11.90	6.55	0.77
mulinaccia	5	Max WS	TR30 2H	31.52	258.64	260.65	260.37	261.12	0.010060	3.06	10.31	6.29	0.76
mulinaccia	5	Max WS	TR30 1H	30.24	258.64	260.59	260.33	261.06	0.010251	3.04	9.95	6.28	0.77
mulinaccia	4.9			Lat Struct									
mulinaccia	4.8			Lat Struct									
mulinaccia	4.2	Max WS	TR200 2H	41.16	258.75	260.93	260.18	261.20	0.003907	2.27	18.15	9.54	0.53
mulinaccia	4.2	Max WS	TR200 1H	39.90	258.75	261.02	260.15	261.25	0.003218	2.10	18.99	9.57	0.48
mulinaccia	4.2	Max WS	TR30 2H	32.07	258.75	260.75	259.97	260.94	0.003192	1.96	16.39	9.44	0.47
mulinaccia	4.2	Max WS	TR30 1H	30.63	258.75	260.69	259.94	260.88	0.003226	1.94	15.80	9.32	0.48
mulinaccia	4.1			Inl Struct									
mulinaccia	4	Max WS	TR200 2H	41.16	258.08	260.93	259.66	261.10	0.002104	1.84	22.35	9.53	0.38
mulinaccia	4	Max WS	TR200 1H	39.90	258.08	261.00	259.62	261.15	0.001818	1.73	23.02	9.55	0.36
mulinaccia	4	Max WS	TR30 2H	32.07	258.08	260.73	259.44	260.86	0.001632	1.56	20.49	9.39	0.34
mulinaccia	4	Max WS	TR30 1H	30.63	258.08	260.67	259.41	260.79	0.001604	1.54	19.93	9.27	0.33
mulinaccia	3.99			Lat Struct									
mulinaccia	3.98			Lat Struct									
mulinaccia	3.4	Max WS	TR200 2H	42.09	258.00	260.78	259.92	261.11	0.005260	2.52	16.67	8.39	0.57
mulinaccia	3.4	Max WS	TR200 1H	40.56	258.00	260.79	259.88	261.09	0.004802	2.42	16.77	8.39	0.55
mulinaccia	3.4	Max WS	TR30 2H	32.53	258.00	260.55	259.64	260.80	0.004477	2.20	14.77	8.39	0.53
mulinaccia	3.4	Max WS	TR30 1H	30.99	258.00	260.50	259.59	260.74	0.004459	2.17	14.31	8.39	0.53
mulinaccia	3.3	Max WS	TR200 2H	39.13	257.95	260.74	259.76	261.05	0.004748	2.47	15.87	7.08	0.53
mulinaccia	3.3	Max WS	TR200 1H	39.13	257.95	260.74	259.76	261.05	0.004753	2.47	15.86	7.08	0.53
mulinaccia	3.3	Max WS	TR30 2H	32.46	257.95	260.52	259.56	260.78	0.004411	2.28	14.27	7.08	0.51
mulinaccia	3.3	Max WS	TR30 1H	30.94	257.95	260.47	259.51	260.72	0.004314	2.23	13.90	7.08	0.51
mulinaccia	3.2			Bridge									
mulinaccia	3.1	Max WS	TR200 2H	41.51	257.95	260.00	259.83	260.74	0.008656	3.80	10.94	6.73	0.87
mulinaccia	3.1	Max WS	TR200 1H	39.27	257.95	259.97	259.76	260.65	0.008207	3.65	10.75	6.67	0.84
mulinaccia	3.1	Max WS	TR30 2H	32.37	257.95	259.68	259.56	260.32	0.009557	3.54	9.15	6.15	0.88
mulinaccia	3.1	Max WS	TR30 1H	30.94	257.95	259.57	259.51	260.24	0.011183	3.64	8.49	6.04	0.94
mulinaccia	3.098			Lat Struct									
mulinaccia	3.09			Lat Struct									
mulinaccia	3.05	Max WS	TR200 2H	43.42	257.79	259.86	259.65	260.41	0.009580	3.28	13.23	8.27	0.83
mulinaccia	3.05	Max WS	TR200 1H	40.39	257.79	259.86	259.58	260.34	0.008279	3.05	13.23	8.27	0.77
mulinaccia	3.05	Max WS	TR30 2H	33.16	257.79	259.50	259.39	260.02	0.011138	3.20	10.35	7.75	0.89
mulinaccia	3.05	Max WS	TR30 1H	31.83	257.79	259.32	259.35	259.96	0.015260	3.54	9.00	7.50	1.03
mulinaccia	3.03	Max WS	TR200 2H	45.39	257.59	259.76	259.50	260.29	0.008785	3.22	14.09	8.41	0.80
mulinaccia	3.03	Max WS	TR200 1H	41.05	257.59	259.78	259.39	260.20	0.007000	2.89	14.22	8.44	0.71
mulinaccia	3.03	Max WS	TR30 2H	33.92	257.59	259.41	259.21	259.88	0.009366	3.03	11.18	7.90	0.81
mulinaccia	3.03	Max WS	TR30 1H	32.66	257.59	259.18	259.17	259.79	0.014199	3.47	9.40	7.57	1.00
mulvalle scopicc	2.1	Max WS	TR200 2H	64.23	257.45	259.72	259.41	260.21	0.007365	3.10	20.74	12.58	0.77
mulvalle scopicc	2.1	Max WS	TR200 1H	62.30	257.45	259.67	259.38	260.16	0.007513	3.09	20.14	12.44	0.78
mulvalle scopicc	2.1	Max WS	TR30 2H	46.96	257.45	259.38	259.10	259.79	0.007184	2.82	16.68	11.63	0.75
mulvalle scopicc	2.1	Max WS	TR30 1H	37.09	257.45	259.17	258.90	259.51	0.006883	2.60	14.29	11.04	0.73
mulvalle scopicc	2.09			Lat Struct									
mulvalle scopicc	2.08			Lat Struct									
mulvalle scopicc	2	Max WS	TR200 2H	64.25	257.45	259.71	259.41	260.20	0.007478	3.11	20.63	12.55	0.78
mulvalle scopicc	2	Max WS	TR200 1H	62.31	257.45	259.66	259.38	260.15	0.007692	3.12	19.97	12.40	0.79
mulvalle scopicc	2	Max WS	TR30 2H	46.96	257.45	259.37	259.10	259.78	0.007364	2.84	16.53	11.59	0.76
mulvalle scopicc	2	Max WS	TR30 1H	37.09	257.45	259.16	258.90	259.51	0.007061	2.62	14.16	11.00	0.74
mulvalle scopicc	1.2	Max WS	TR200 2H	64.25	257.37	259.67	259.33	260.14	0.007126	3.03	21.18	12.64	0.75
mulvalle scopicc	1.2	Max WS	TR200 1H	62.31	257.37	259.63	259.29	260.09	0.007081	3.00	20.76	12.55	0.75
mulvalle scopicc	1.2	Max WS	TR30 2H	46.96	257.37	259.35	259.01	259.73	0.006643	2.71	17.32	11.78	0.71
mulvalle scopicc	1.2	Max WS	TR30 1H	37.09	257.37	259.14	258.81	259.46	0.006266	2.48	14.94	11.21	0.69
mulvalle scopicc	1.1			Inl Struct									
mulvalle scopicc	1	Max WS	TR200 2H	63.19	256.34	258.91	258.80	259.61	0.011790	3.69	17.13	10.38	0.92
mulvalle scopicc	1	Max WS	TR200 1H	61.31	256.34	258.75	258.76	259.55	0.014612	3.97	15.45	9.90	1.01
mulvalle scopicc	1	Max WS	TR30 2H	46.57	256.34	258.41	258.45	259.14	0.015553	3.79	12.28	8.93	1.03
mulvalle scopicc	1	Max WS	TR30 1H	37.08	256.34	258.19	258.21	258.84	0.015508	3.58	10.37	8.29	1.02
mulvalle scopicc	0.99			Lat Struct									
mulvalle scopicc	0.98			Lat Struct									
mulvalle scopicc	0.5	Max WS	TR200 2H	62.31	255.70	258.68	258.01	259.06	0.004681	2.71	22.96	11.39	0.61
mulvalle scopicc	0.5	Max WS	TR200 1H	52.92	255.70	258.60	257.83	258.89	0.003785	2.40	22.01	11.21	0.55

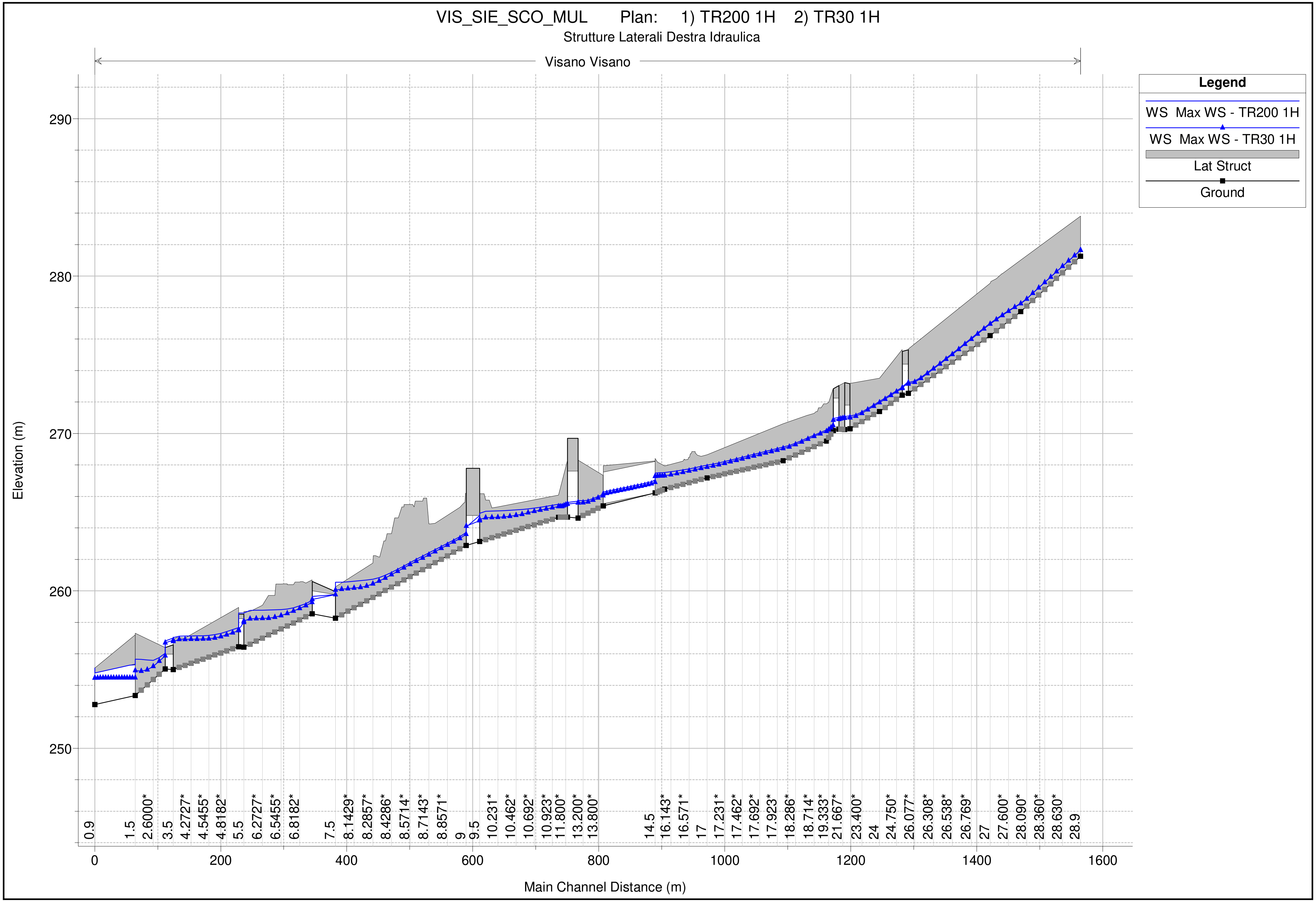
HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
mulvalle scopicc	0.5	Max WS	TR30 2H	44.38	255.70	258.16	257.64	258.50	0.005102	2.56	17.33	10.30	0.63
mulvalle scopicc	0.5	Max WS	TR30 1H	32.32	255.70	258.03	257.35	258.24	0.003378	2.02	15.98	10.02	0.51
mulvalle scopicc	0.4	Max WS	TR200 2H	62.31	255.70	258.67	258.01	259.05	0.004716	2.72	22.90	11.38	0.61
mulvalle scopicc	0.4	Max WS	TR200 1H	52.91	255.70	258.59	257.83	258.89	0.003813	2.41	21.95	11.20	0.55
mulvalle scopicc	0.4	Max WS	TR30 2H	44.38	255.70	258.15	257.64	258.49	0.005168	2.57	17.25	10.28	0.63
mulvalle scopicc	0.4	Max WS	TR30 1H	32.32	255.70	258.02	257.35	258.23	0.003404	2.03	15.93	10.01	0.51

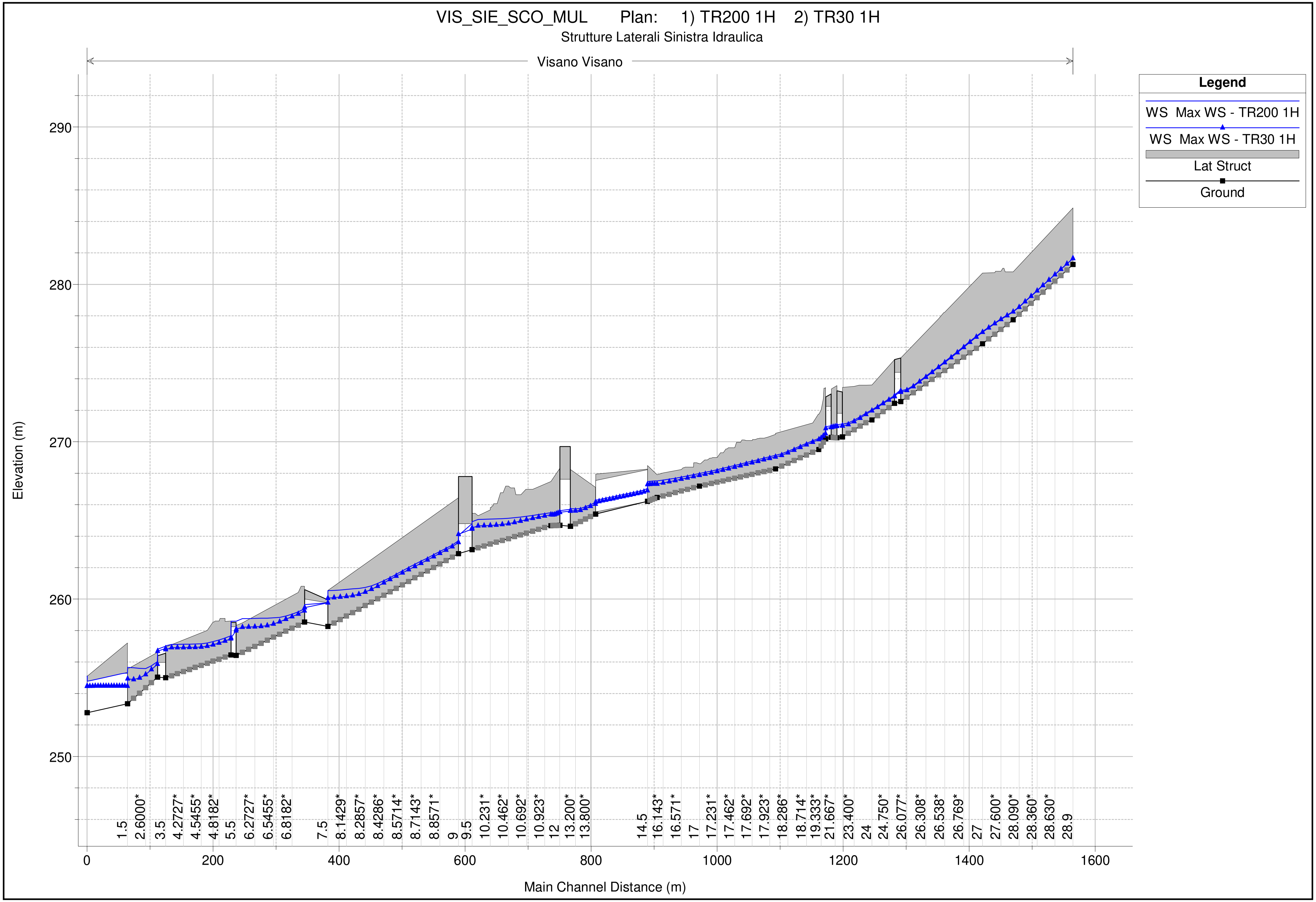
HEC-RAS Profile: Max WS

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
mulinaccia	18.89	Max WS	TR200 2H	53.64	-6.25	50.39	-6.25		97.90	1.13	0.54	271.79	274.70	273.90	273.27	272.60
mulinaccia	18.89	Max WS	TR200 1H	50.52	-5.84	47.72	-5.84		97.90	1.14	0.49	271.79	274.61	273.85	273.20	272.56
mulinaccia	18.89	Max WS	TR30 2H	37.89	-1.22	37.02	-1.22		62.73	0.72	0.40	271.79	274.24	273.63	272.90	272.36
mulinaccia	18.89	Max WS	TR30 1H	35.45	-0.70	35.14	-0.70		61.43	0.69	0.36	271.79	274.16	273.58	272.84	272.34
mulinaccia	18.88	Max WS	TR200 2H	53.64	4.10	50.39	4.10		82.77	0.68	0.40	272.00	274.70	273.90	273.27	272.60
mulinaccia	18.88	Max WS	TR200 1H	50.52	3.16	47.72	3.16		82.77	0.65	0.36	272.00	274.61	273.85	273.20	272.56
mulinaccia	18.88	Max WS	TR30 2H	37.89	0.19	37.02	0.19		82.77	0.45	0.16	272.00	274.24	273.63	272.90	272.36
mulinaccia	18.88	Max WS	TR30 1H	35.45	0.01	35.14	0.01		73.84	0.41	0.14	272.00	274.16	273.58	272.84	272.34
mulinaccia	17.09	Max WS	TR200 2H	50.39	-2.40	53.04	-2.40		77.25	1.13	0.34	267.32	272.92	272.30	268.02	267.39
mulinaccia	17.09	Max WS	TR200 1H	47.55	-2.27	50.88	-2.27		68.03	1.14	0.33	267.32	272.84	272.25	267.97	267.34
mulinaccia	17.09	Max WS	TR30 2H	36.99	-1.32	37.75	-1.32		57.67	0.72	0.15	267.32	272.54	272.02	267.62	267.06
mulinaccia	17.09	Max WS	TR30 1H	36.22	-1.10	34.71	-1.10		35.97	0.69	0.17	267.32	272.52	271.99	267.53	267.00
mulinaccia	17.08	Max WS	TR200 2H	50.39	-4.17	53.04	-4.17		61.32	0.58	0.36	268.08	272.92	272.30	268.02	267.39
mulinaccia	17.08	Max WS	TR200 1H	47.55	-3.43	50.88	-3.43		58.20	0.53	0.33	268.08	272.84	272.25	267.97	267.33
mulinaccia	17.08	Max WS	TR30 2H	36.99	-0.50	37.75	-0.50		35.47	0.20	0.13	268.08	272.54	272.02	267.62	267.06
mulinaccia	17.08	Max WS	TR30 1H	36.22	-0.17	34.71	-0.17		26.94	0.12	0.08	268.08	272.52	271.99	267.52	267.00
mulinaccia	11.99	Max WS	TR200 2H	54.03	-0.85	53.93	-0.85		170.17	0.36	0.13	264.26	267.76	267.04	264.39	263.99
mulinaccia	11.99	Max WS	TR200 1H	50.96	-1.14	50.95	-1.14		145.11	0.32	0.13	264.26	267.67	266.99	264.28	263.87
mulinaccia	11.99	Max WS	TR30 2H	37.93	0.00	37.85	0.00		5.52	0.01	0.01	264.26	267.28	266.68	263.88	263.54
mulinaccia	11.99	Max WS	TR30 1H	35.32	0.00	35.19	0.00					264.26	267.18	266.61	263.80	263.47
mulinaccia	11.98	Max WS	TR200 2H	54.03	-0.02	53.93	-0.02		3.36	0.12	0.06	264.56	267.76	267.04	264.39	263.99
mulinaccia	11.98	Max WS	TR200 1H	50.96	-0.02	50.95	-0.02		3.36	0.12	0.06	264.56	267.67	266.99	264.28	263.87
mulinaccia	11.98	Max WS	TR30 2H	37.93	-0.02	37.85	-0.02		3.36	0.12	0.06	264.56	267.28	266.68	263.88	263.54
mulinaccia	11.98	Max WS	TR30 1H	35.32	-0.02	35.19	-0.02		3.36	0.12	0.06	264.56	267.18	266.61	263.80	263.47
mulinaccia	10.09	Max WS	TR200 2H	53.93	0.66	53.07	0.66		16.52	0.50	0.25	262.86	264.35	263.92	263.54	263.36
mulinaccia	10.09	Max WS	TR200 1H	50.95	0.30	50.61	0.30		11.48	0.38	0.19	262.86	264.23	263.76	263.41	263.24
mulinaccia	10.09	Max WS	TR30 2H	37.85	0.00	37.84	0.00					262.86	263.82	263.41	262.87	262.73
mulinaccia	10.09	Max WS	TR30 1H	35.19	0.00	35.16	0.00					262.86	263.73	263.33	262.74	262.60
mulinaccia	10.08	Max WS	TR200 2H	53.93	0.00	53.07	0.00					263.44	264.35	263.92	263.54	263.36
mulinaccia	10.08	Max WS	TR200 1H	50.95	0.00	50.61	0.00					263.44	264.23	263.76	263.41	263.24
mulinaccia	10.08	Max WS	TR30 2H	37.85	0.00	37.84	0.00					263.44	263.82	263.41	262.87	262.73
mulinaccia	10.08	Max WS	TR30 1H	35.19	0.00	35.16	0.00					263.44	263.73	263.33	262.74	262.60
mulinaccia	8.09	Max WS	TR200 2H	53.07	4.73	43.80	4.73		32.08	1.07	0.62	261.74	263.04	262.76	263.01	262.74
mulinaccia	8.09	Max WS	TR200 1H	50.61	4.17	42.39	4.17		31.16	1.01	0.58	261.74	262.93	262.64	262.92	262.65
mulinaccia	8.09	Max WS	TR30 2H	37.83	1.76	34.36	1.76		28.07	0.72	0.33	261.74	262.60	262.41	262.57	262.35
mulinaccia	8.09	Max WS	TR30 1H	35.16	1.31	32.62	1.31		21.61	0.65	0.33	261.74	262.52	262.34	262.48	262.27
mulinaccia	8.08	Max WS	TR200 2H	53.07	4.53	43.80	4.53		28.16	0.98	0.67	261.84	263.04	262.76	263.01	262.74
mulinaccia	8.08	Max WS	TR200 1H	50.61	4.04	42.39	4.04		27.63	0.93	0.63	261.84	262.93	262.64	262.92	262.65
mulinaccia	8.08	Max WS	TR30 2H	37.83	1.72	34.36	1.72		25.93	0.63	0.36	261.84	262.60	262.41	262.57	262.35
mulinaccia	8.08	Max WS	TR30 1H	35.16	1.24	32.62	1.24		25.44	0.55	0.28	261.84	262.52	262.34	262.48	262.27
mulinaccia	6.99	Max WS	TR200 2H	43.80	1.26	39.87	1.26		26.06	0.44	0.29	261.40	262.49	262.03	262.33	261.84
mulinaccia	6.99	Max WS	TR200 1H	42.39	1.14	32.31	1.14		25.13	0.42	0.28	261.40	262.42	261.96	262.14	261.81
mulinaccia	6.99	Max WS	TR30 2H	34.36	0.83	31.52	0.83		21.67	0.38	0.25	261.40	262.20	261.88	262.10	261.78
mulinaccia	6.99	Max WS	TR30 1H	32.62	0.64	30.25	0.64		20.13	0.33	0.22	261.40	262.14	261.84	262.04	261.73
mulinaccia	6.98	Max WS	TR200 2H	43.80	2.66	39.87	2.66		30.12	0.74	0.43	261.10	262.49	262.03	262.33	261.84
mulinaccia	6.98	Max WS	TR200 1H	42.39	2.49	32.31	2.49		29.40	0.71	0.42	261.10	262.42	261.96	262.14	261.81
mulinaccia	6.98	Max WS	TR30 2H	34.36	2.01	31.52	2.01		26.39	0.68	0.39	261.10	262.20	261.88	262.10	261.78
mulinaccia	6.98	Max WS	TR30 1H	32.62	1.72	30.25	1.72		25.03	0.63	0.36	261.10	262.14	261.84	262.04	261.73
mulinaccia	4.9	Max WS	TR200 2H	39.87	-0.43	41.16	-0.43		13.57	0.40	0.22	261.21	261.50	260.98	261.20	260.93
mulinaccia	4.9	Max WS	TR200 1H	38.75	-0.38	39.90	-0.38		13.57	0.37	0.21	261.21	261.44	260.90	261.25	261.02
mulinaccia	4.9	Max WS	TR30 2H	31.52	-0.21	32.07	-0.21		13.57	0.29	0.13	261.21	261.12	260.65	260.95	260.75
mulinaccia	4.9	Max WS	TR30 1H	30.24	-0.16	30.63	-0.16		12.35	0.25	0.11	261.21	261.06	260.59	260.88	260.68
mulinaccia	4.8	Max WS	TR200 2H	39.87	-0.85	41.16	-0.85		15.00	0.44	0.34	260.78	261.50	260.98	261.20	260.93
mulinaccia	4.8	Max WS	TR200 1H	38.75	-0.75	39.90	-0.75		15.00	0.41	0.31	260.78	261.44	260.90	261.25	261.02
mulinaccia	4.8	Max WS	TR30 2H	31.52	-0.34	32.07	-0.34		15.00	0.28	0.18	260.78	261.12	260.65	260.95	260.75
mulinaccia	4.8	Max WS	TR30 1H	30.24	-0.23	30.63	-0.23		15.00	0.23	0.14	260.78	261.06	260.59	260.88	260.68
mulinaccia	3.99	Max WS	TR200 2H	41.16	1.37	39.13	1.37		17.73	0.61	0.39	260.14	261.10	260.93	261.06	260.75
mulinaccia	3.99	Max WS	TR200 1H	39.90	1.47	39.13	1.47		18.86	0.61	0.40	260.14	261.15	261.00	261.06	260.75
mulinaccia	3.99	Max WS	TR30 2H	32.07	0.57	32.46	0.57		13.64	0.38	0.26	260.14	260.86	260.73	260.78	260.52
mulinaccia	3.99	Max WS	TR30 1H	30.63	0.42	30.94	0.42		12.47	0.33	0.23	260.14	260.79	260.67	260.72	260.47
mulinaccia	3.98	Max WS	TR200 2H	41.16	-2.11	39.13	-2.11		23.54	0.67	0.46	260.30	261.10	260.93	261.06	260.75
mulinaccia	3.98	Max WS	TR200 1H	39.90	-1.87	39.13	-1.87		23.54	0.64	0.43	260.30	261.15	261.00	261.06	260.75
mulinaccia	3.98	Max WS	TR30 2H	32.07	-0.98	32.46	-0.98		23.54	0.47	0.27	260.30	260.86	260.73	260.78	260.52
mulinaccia	3.98	Max WS	TR30 1H	30.63	-0.74	30.94	-0.74		23.54	0.42	0.23	260.30	260.79	260.67	260.72	260.47
mulinaccia	3.098	Max WS	TR200 2H	41.51	-3.61	45.39	-3.61		21.68	0.83	0.70	259.91	260.74	260.00	260.29	259.76
mulinaccia	3.098	Max WS	TR200 1H	39.27	-3.32	41.05	-3.32		21.68	0.79	0.66	259.91	260.65	259.97	260.21	259.78
mulinaccia	3.098	Max WS	TR30 2H	32.37	-2.07	33.92	-2.07		21.68	0.60	0.49	259.91	260.32	259.68	259.88	259.41
mulinaccia	3.098	Max WS	TR30 1H	30.94	-1.70	32.66	-1.70		21.68	0.53	0.43	259.91	260.24	259.57	259.79	259.18
mulinaccia	3.09	Max WS	TR200 2H	41.51	-0.66	45.39	-0.66		19.49	0.37	0.24	259.90	260.74	260.00	260.29	259.76
mulinaccia	3.09	Max WS	TR200 1H	39.27	-0.58	41.05	-0.58		19.49	0.34	0.22	259.90	260.65	259.97	260.21	259.78
mulinaccia	3.09	Max WS	TR30 2H	32.37	-0.17	33.92	-0.17		19.49	0.22	0.09	259.90	260.32	259.68	259.88	259.41
mulinaccia	3.09	Max WS	TR30 1H	30.94	-0.10	32.66	-0.10		15.39	0.18	0.07	259.90	260.24	259.57	259.79	259.18
mulvalle scopicc	2.09	Max WS	TR200 2H	64.23	-0.02	64.25	-0.02		1.33	0.14	0.13	260.09	260.21	259.72	260.14	259.67
mulvalle scopicc	2.09	Max WS	TR200 1H	62.30	-0.01	62.31	-0.01		1.28	0.12	0.11	260.09	260.16	259.67	260.09	259.64
mulvalle scopicc	2.09	Max WS	TR30 2H	46.96	0.00	46.96	0.00					260.09	259.79	259.38	259.73	259.35
mulvalle scopicc	2.09	Max WS	TR30 1H	37.09	0.00	37.09	0.00					260.09	259.51	259.17	259.46	259.14
mulvalle scopicc	2.08	Max WS	TR200 2H	64.23	0.00	64.25	0.00					261.27	260.21	259.72	260.14	259.67
mulvalle scopicc	2.08	Max WS	TR200 1H	62.30	0.00	62.31	0.00					261.27	260.16	259.67	260.10	259.64
mulvalle scopicc	2.08	Max WS	TR30 2H	46.96	0.00	46.96	0.00					261.27	259.79	259.38	259.73	259.35
mulvalle scopicc	2.08	Max WS	TR30 1H	37.09	0.00	37.09	0.00					261.27	259.51	259.17	259.46	259.14
mulvalle scopicc	0.99	Max WS	TR200 2H	63.19	0.00	62.31	0.00					263.03	259.61	258.91	259.05	258.68
mulvalle scopicc	0.99	Max WS	TR200 1H	61.31	0.00	52.91	0.00					263.03	259.55	258.75	258.89	258.59
mulvalle scopicc	0.99	Max WS	TR30 2H	46.57	0.00	44.38	0.00					263.03	259.14	258.41	258.49	258.15
mulvalle scopicc	0.99	Max WS	TR30 1H	37.08	0.00	32.32	0.00					263.03	258.84	258.19	258.23	258.02
mulvalle scopicc	0.98	Max WS	TR200 2H	63.19	0.00	62.31	0.00					261.27	259.61	258.91	259.05	258.68
mulvalle scopicc	0.98	Max WS	TR200 1H	61.31	0.00	52.91	0.00					261.27	259.55	258.75	258.89	258.59
mulvalle scopicc	0.98	Max WS	TR30 2H	46.57	0.00	44.38	0.00					261.27	259.14	258.41	258.49	258.15
mulvalle scopicc	0.98	Max WS	TR30 1H	37.08	0.00	32.32	0.00					261.27	258.84	258.19	258.23	258.02

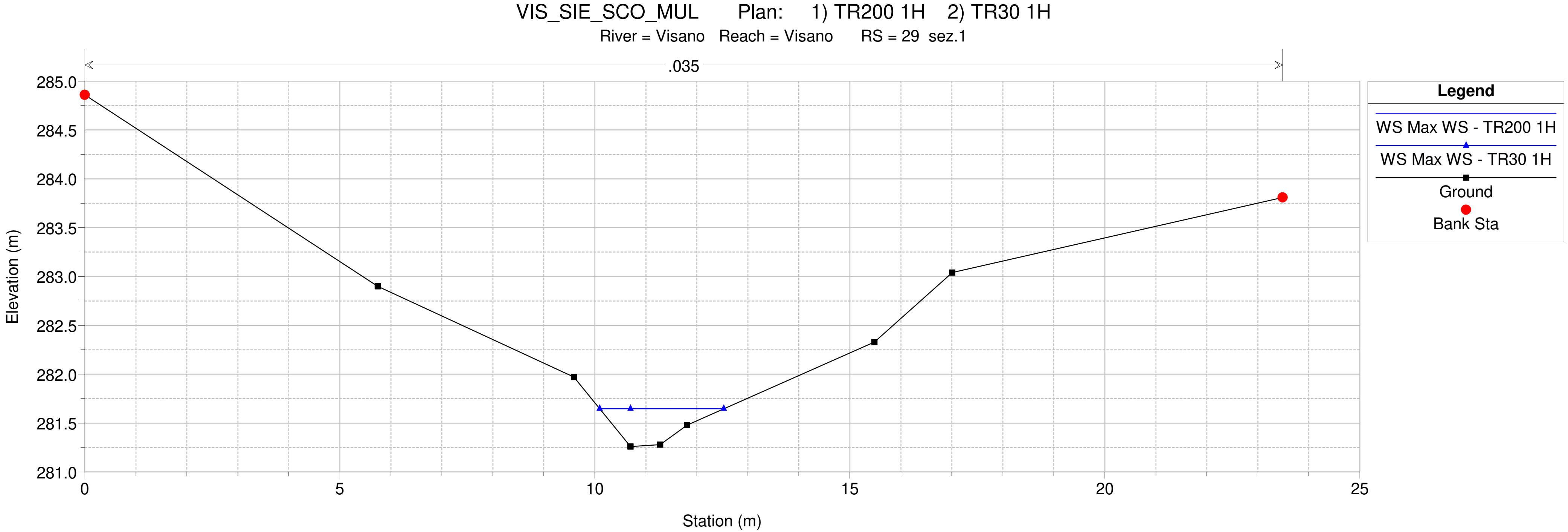
FOSSO
DI VISANO

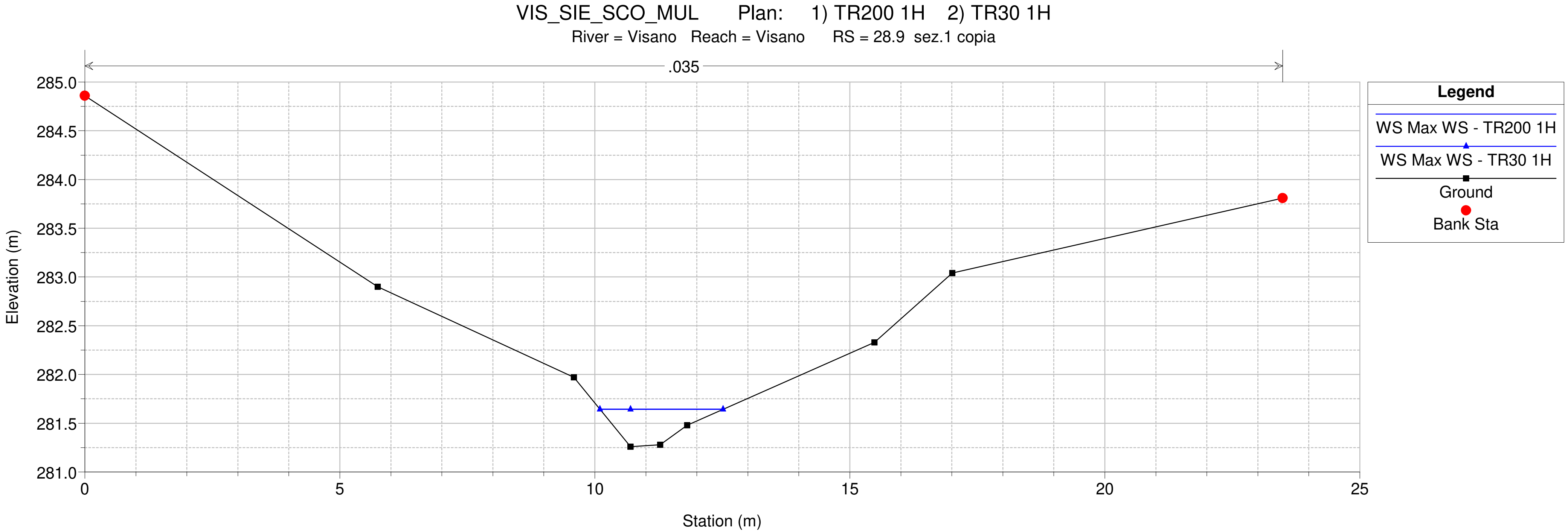


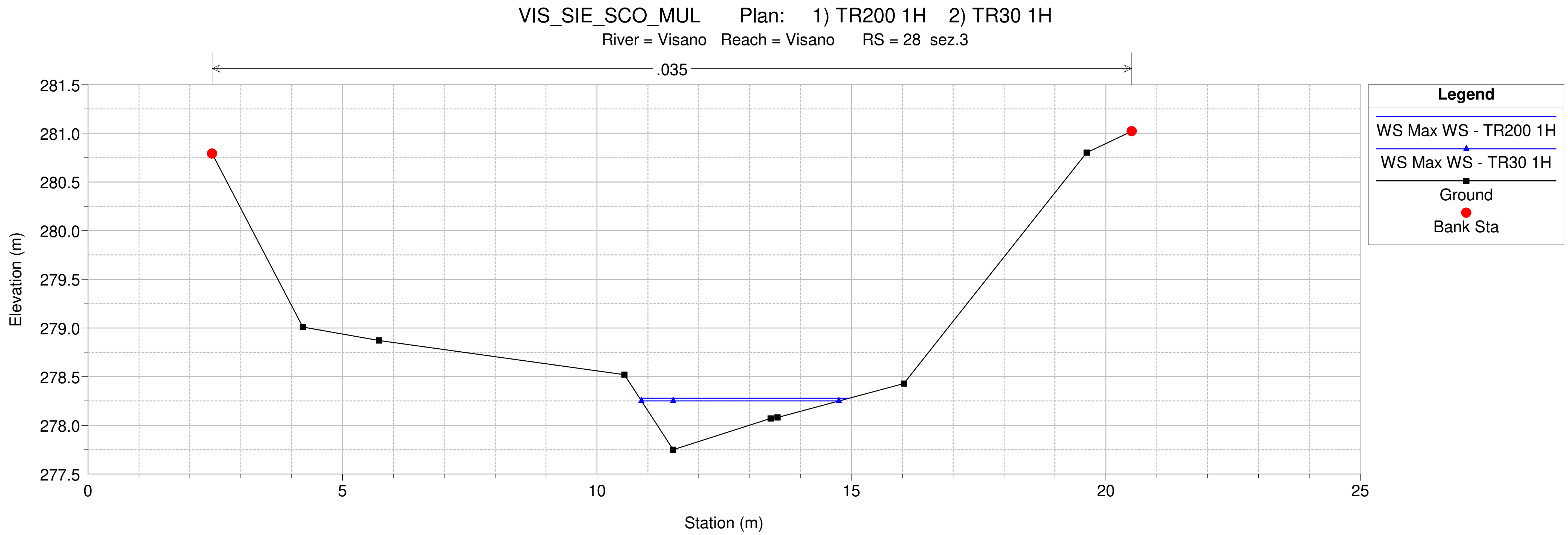
1 cm Horiz. = 75 m 1 cm Vert. = 3 m



1 cm Horiz. = 75 m   1 cm Vert. = 3 m


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 29 sez.1
.035
Elevation (m)
285.0
284.5
284.0
283.5
283.0
282.5
282.0
281.5
281.0
0
5
10
15
20
25
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 28.9 sez.1 copia
.035
Elevation (m)
285.0
284.5
284.0
283.5
283.0
282.5
282.0
281.5
281.0
0
5
10
15
20
25
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta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River = Visano Reach = Visano RS = 28 sez.3
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
Station (m)
281.5
281.0
280.5
280.0
279.5
279.0
278.5
278.0
277.5
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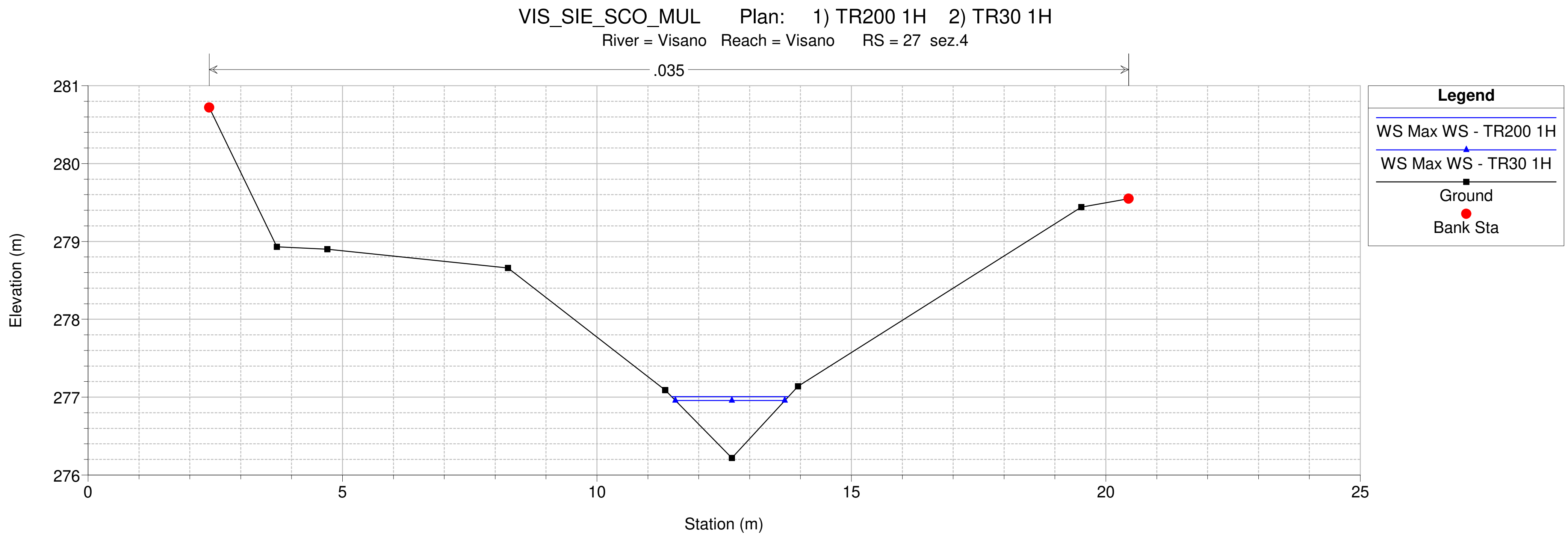
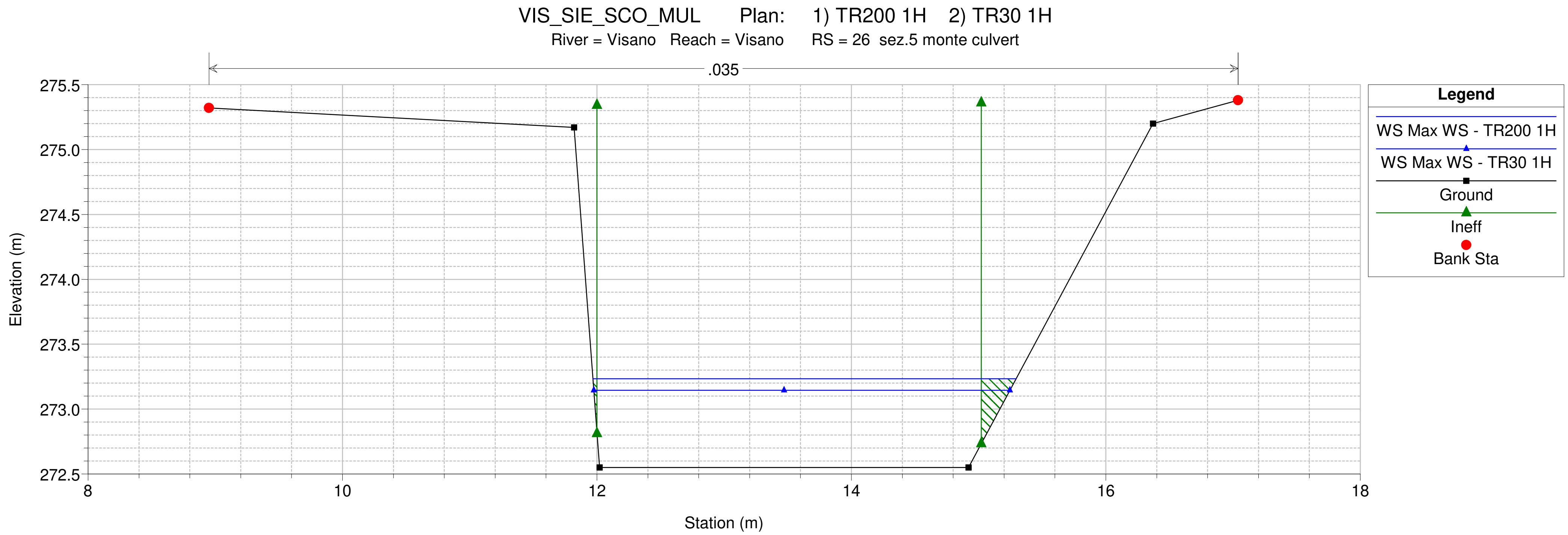
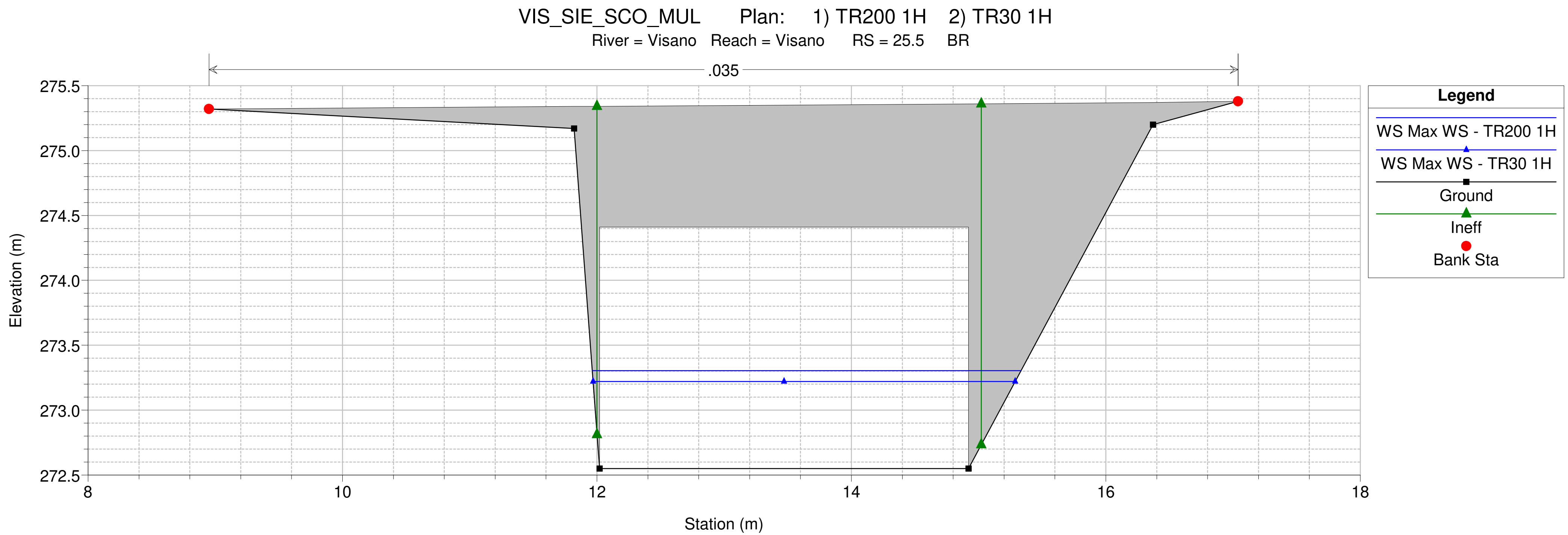
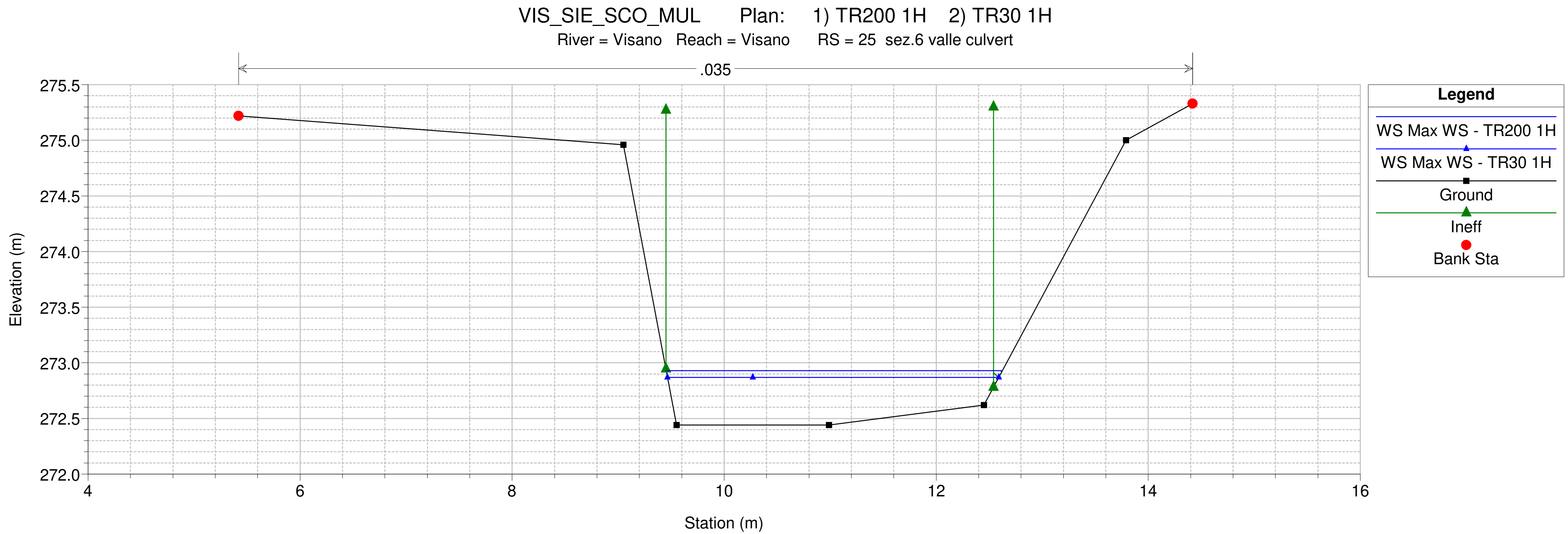
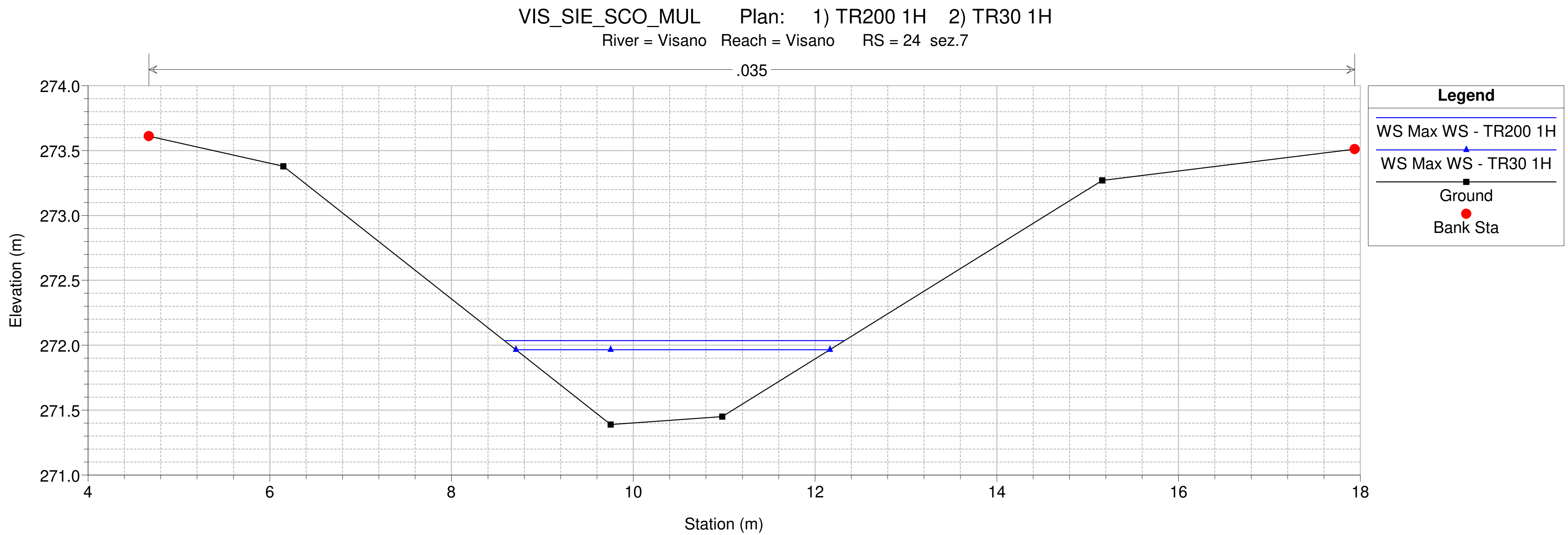
5
10
15
20
25

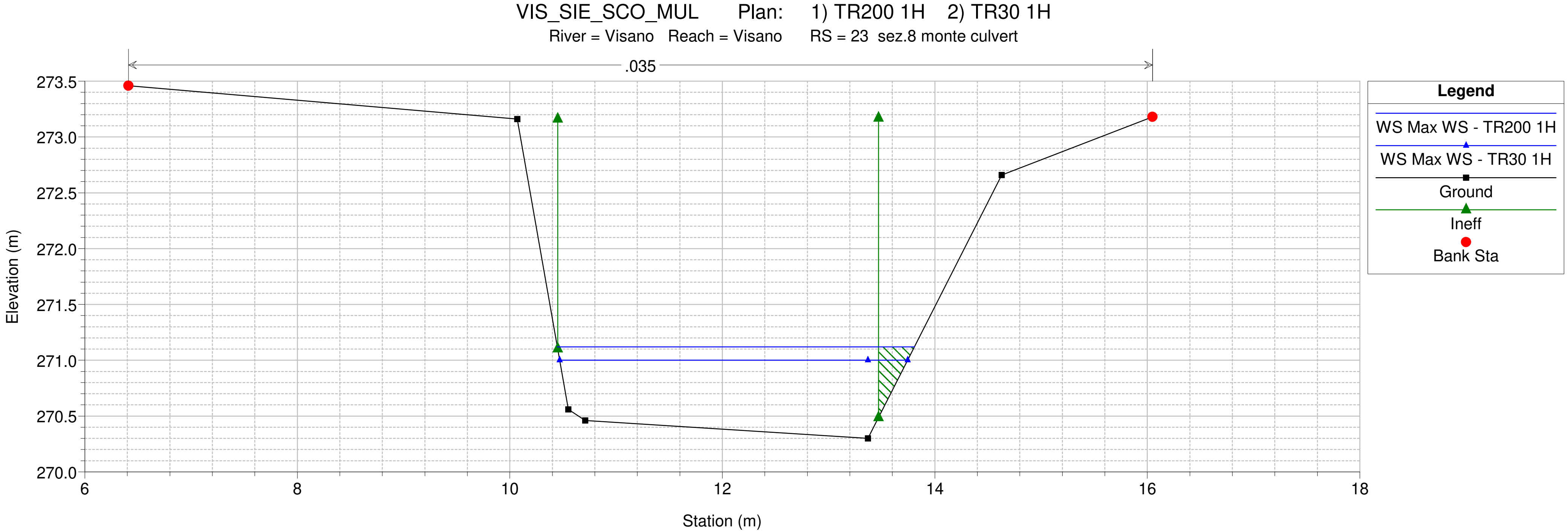

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 27 sez.4
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
Station (m)
281
280
279
278
277
276
0
5
10
15
20
25


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 26 sez.5 monte culvert
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta

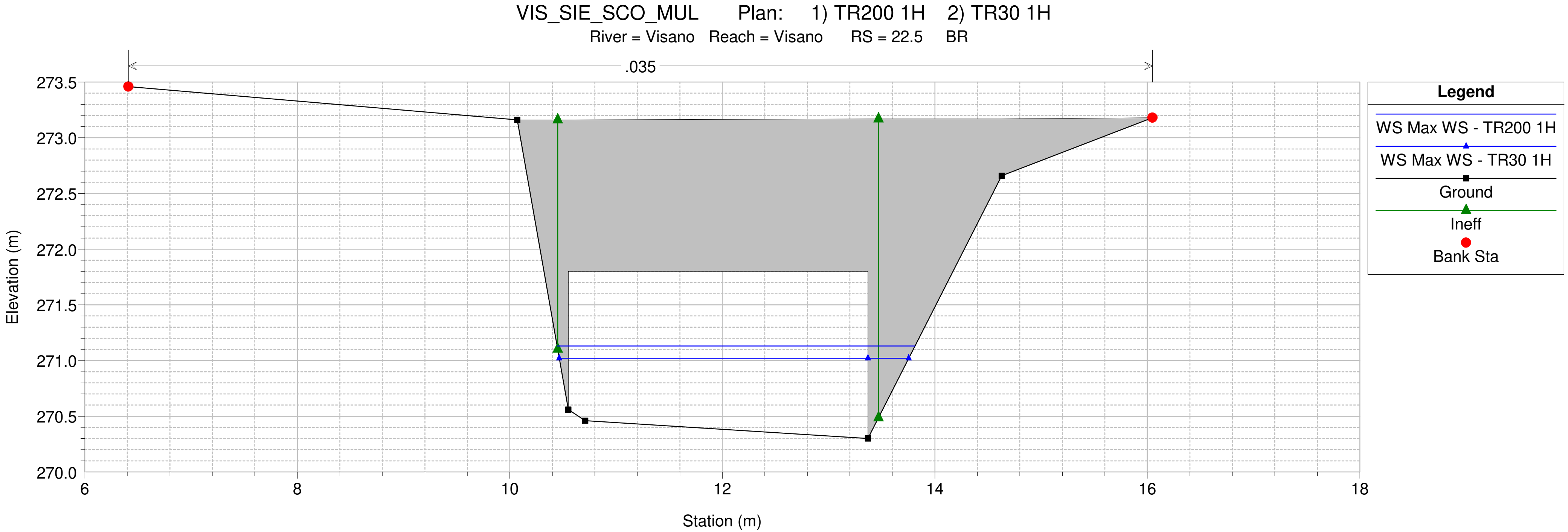

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 25.5 BR
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 25 sez.6 valle culvert
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta

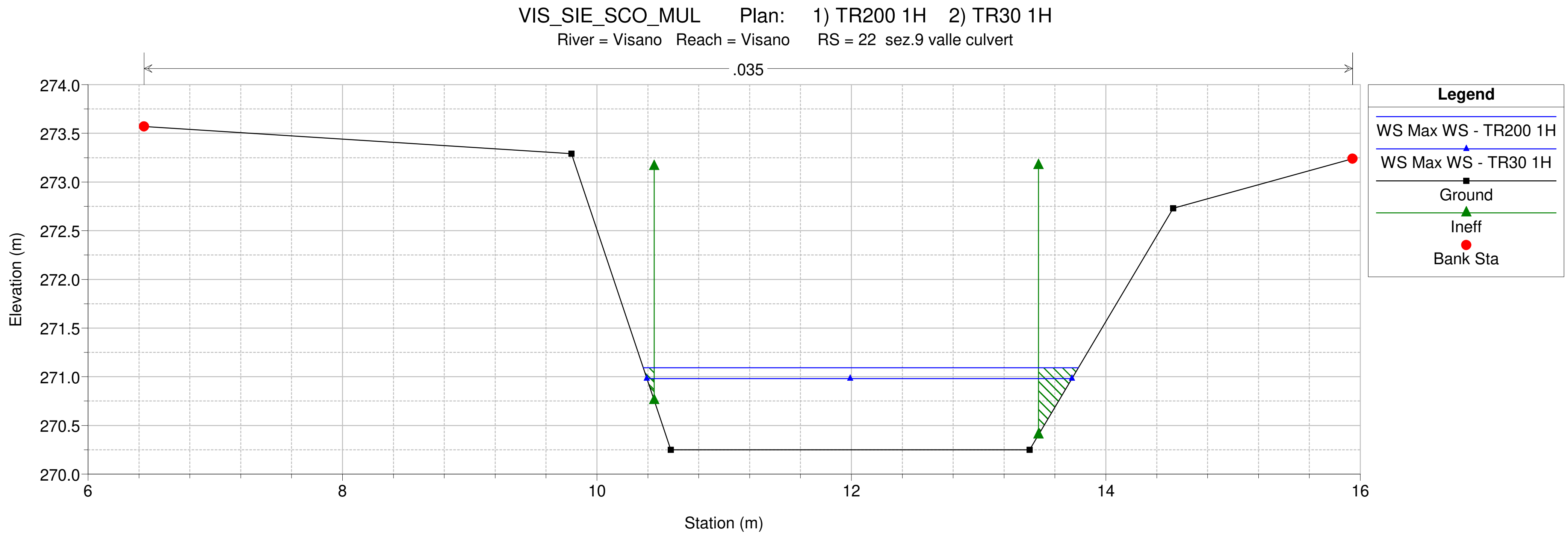

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 24 sez.7
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta

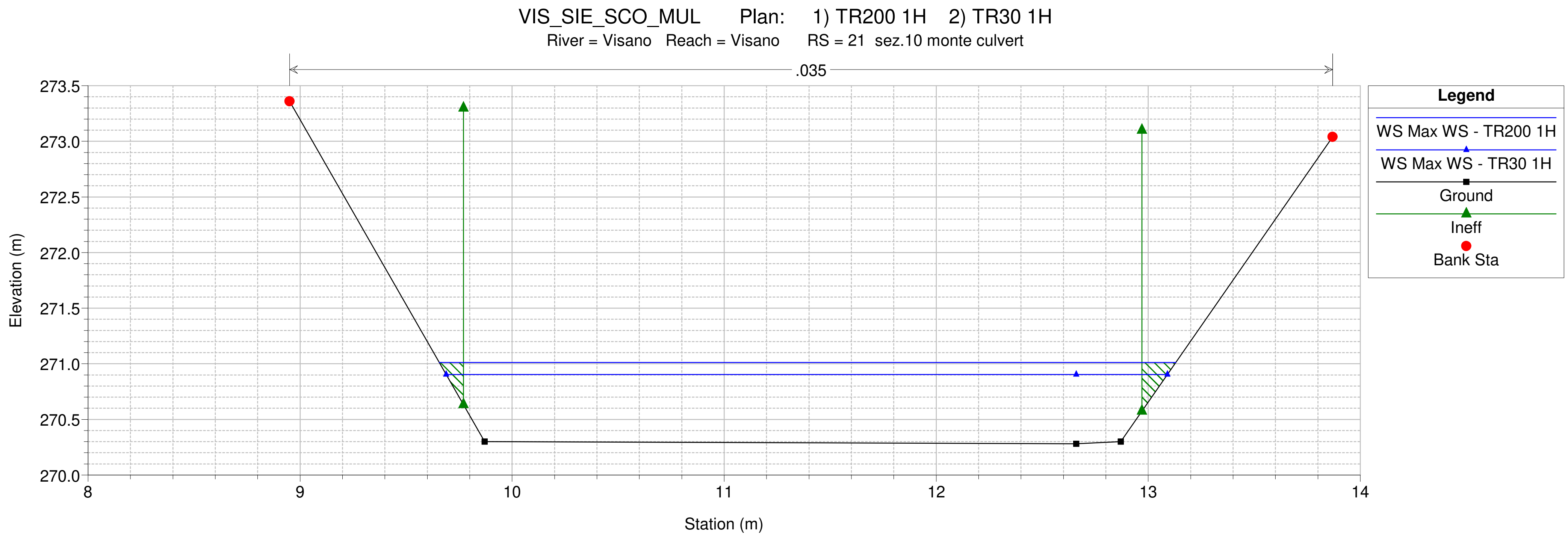


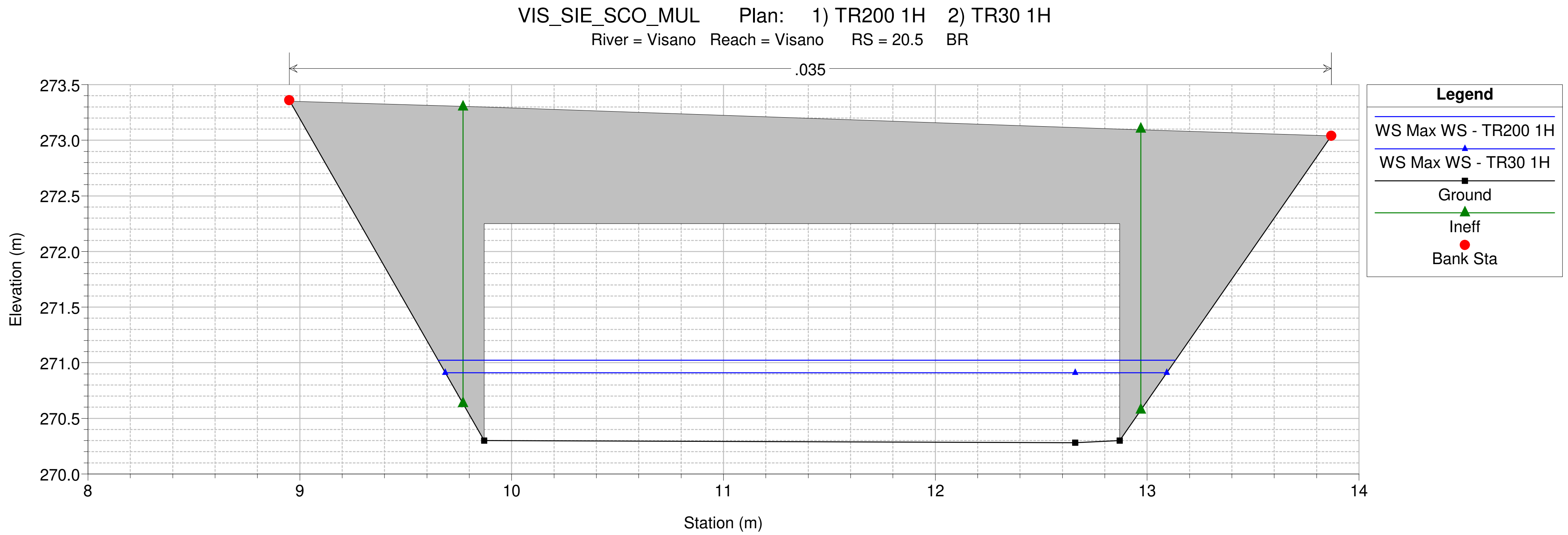
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 23 sez.8 monte culvert
.035
273.5
273.0
272.5
272.0
271.5
271.0
270.5
270.0
Elevation (m)
6
8
10
12
14
16
18
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta



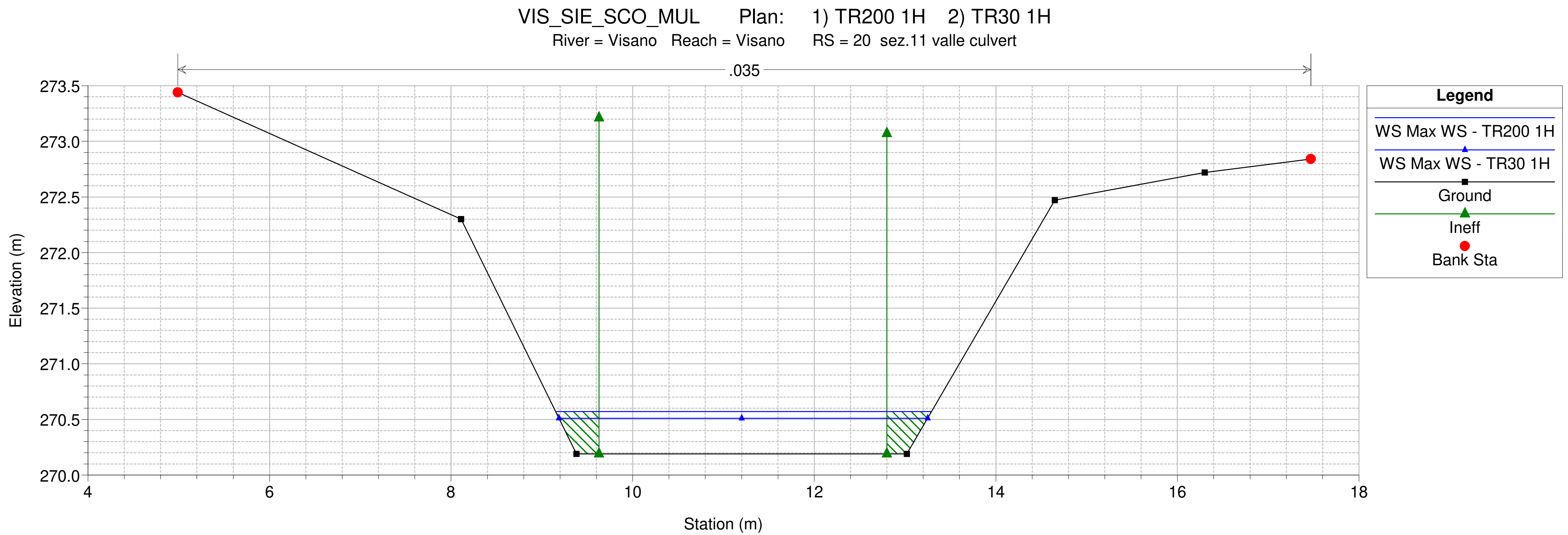
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 22.5 BR
.035
273.5
273.0
272.5
272.0
271.5
271.0
270.5
270.0
Elevation (m)
6
8
10
12
14
16
18
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 22 sez.9 valle culvert
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
274.0
273.5
273.0
272.5
272.0
271.5
271.0
270.5
270.0
6
8
10
12
14
16

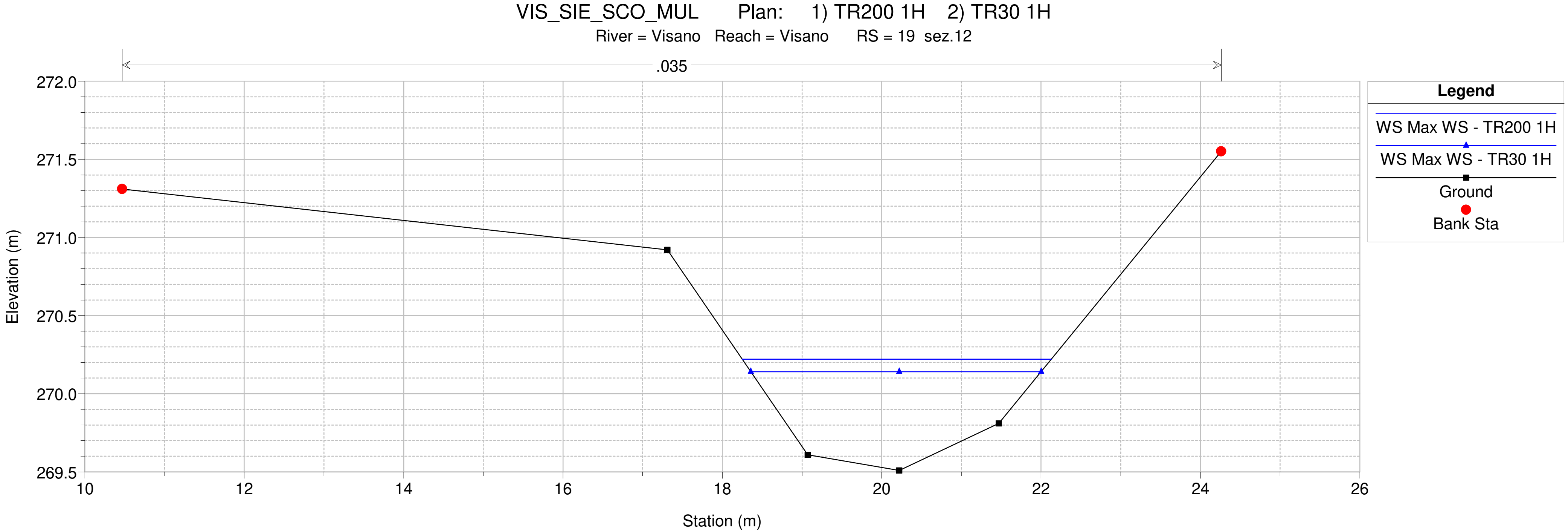

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 21 sez.10 monte culvert
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
273.5
273.0
272.5
272.0
271.5
271.0
270.5
270.0
8
9
10
11
12
13
14

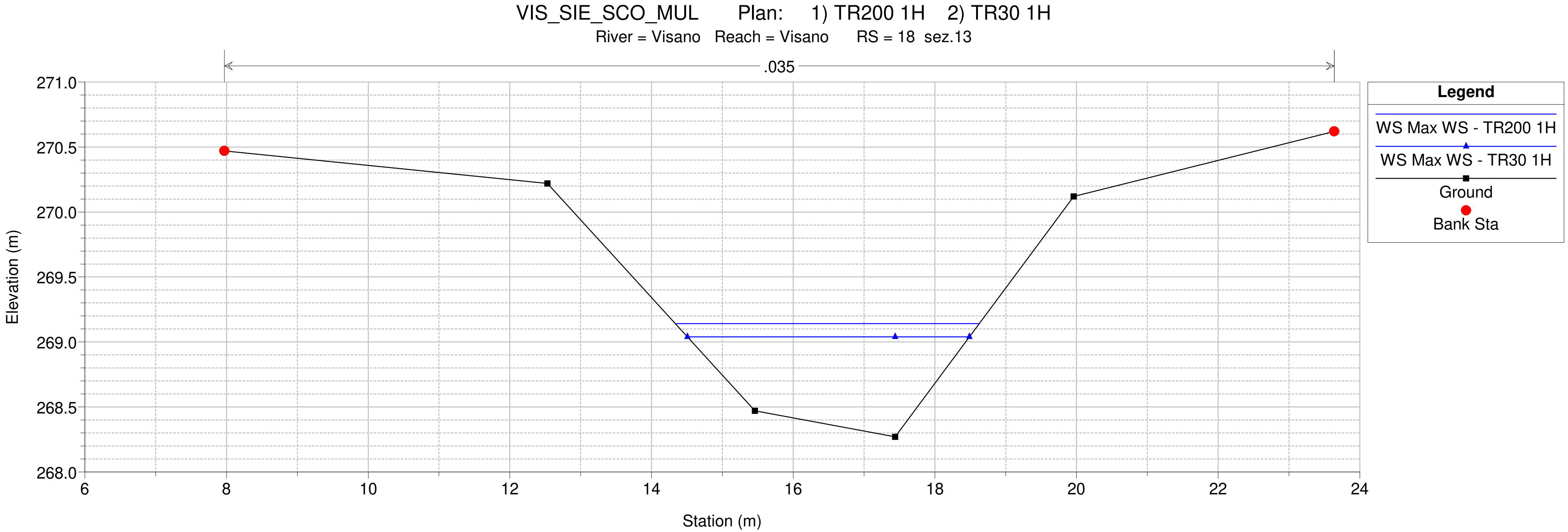


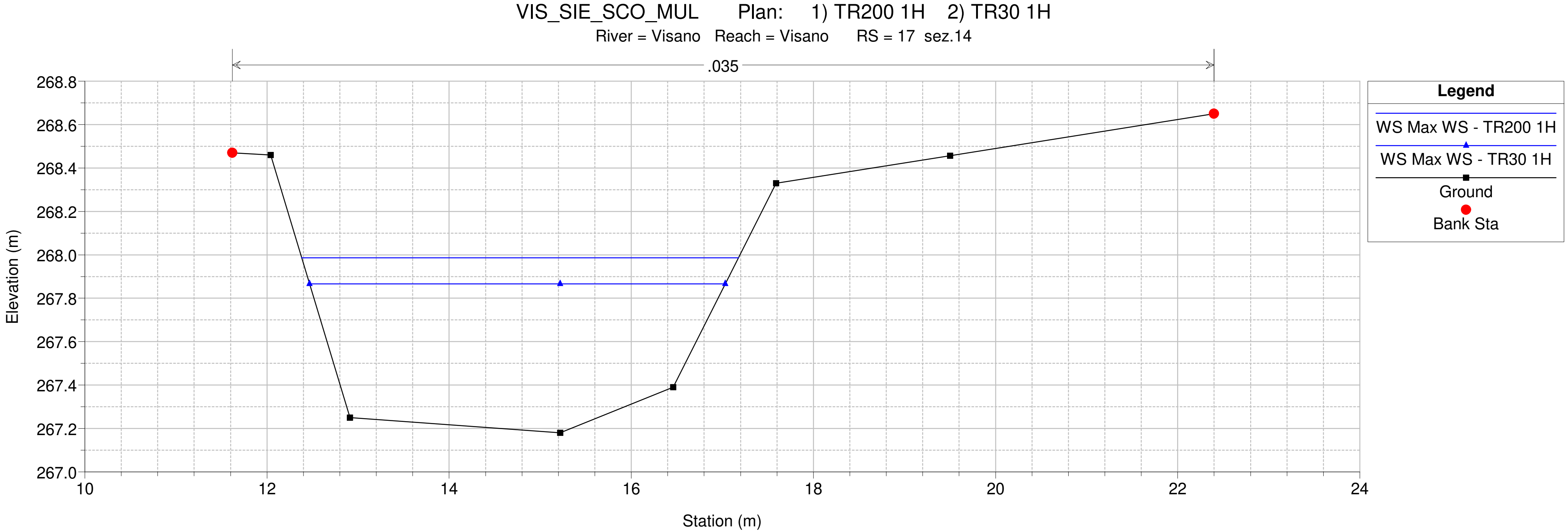
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 20.5 BR
.035
Elevation (m)
273.5
273.0
272.5
272.0
271.5
271.0
270.5
270.0
8
9
10
11
12
13
14
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta

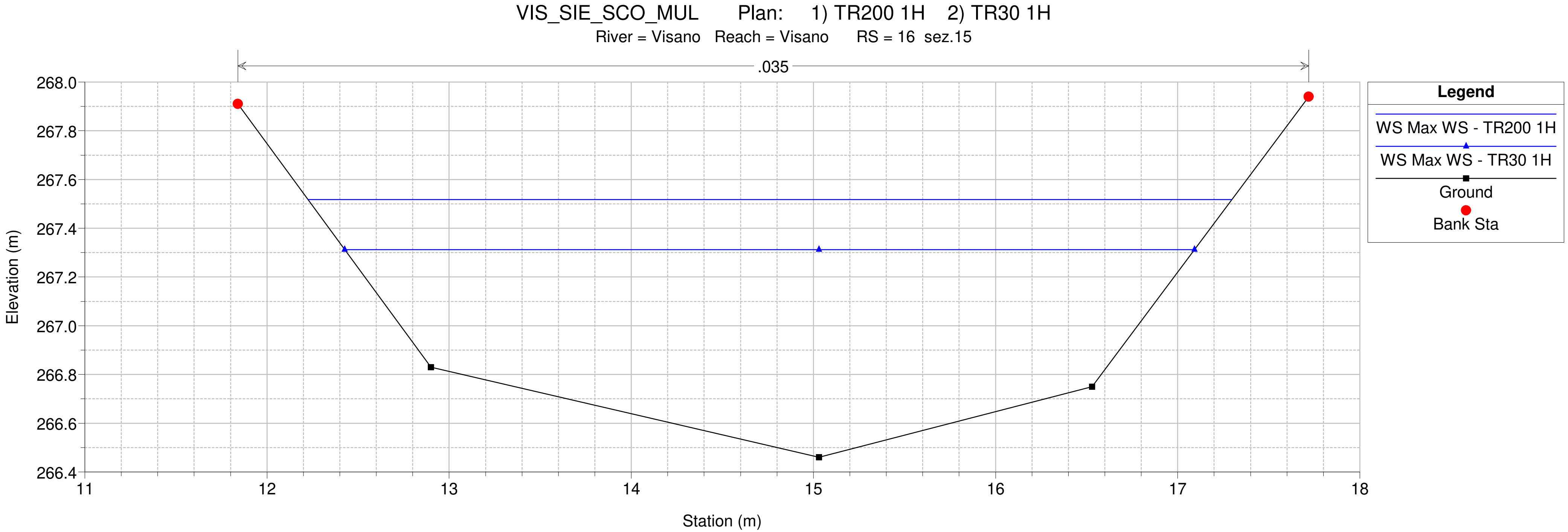


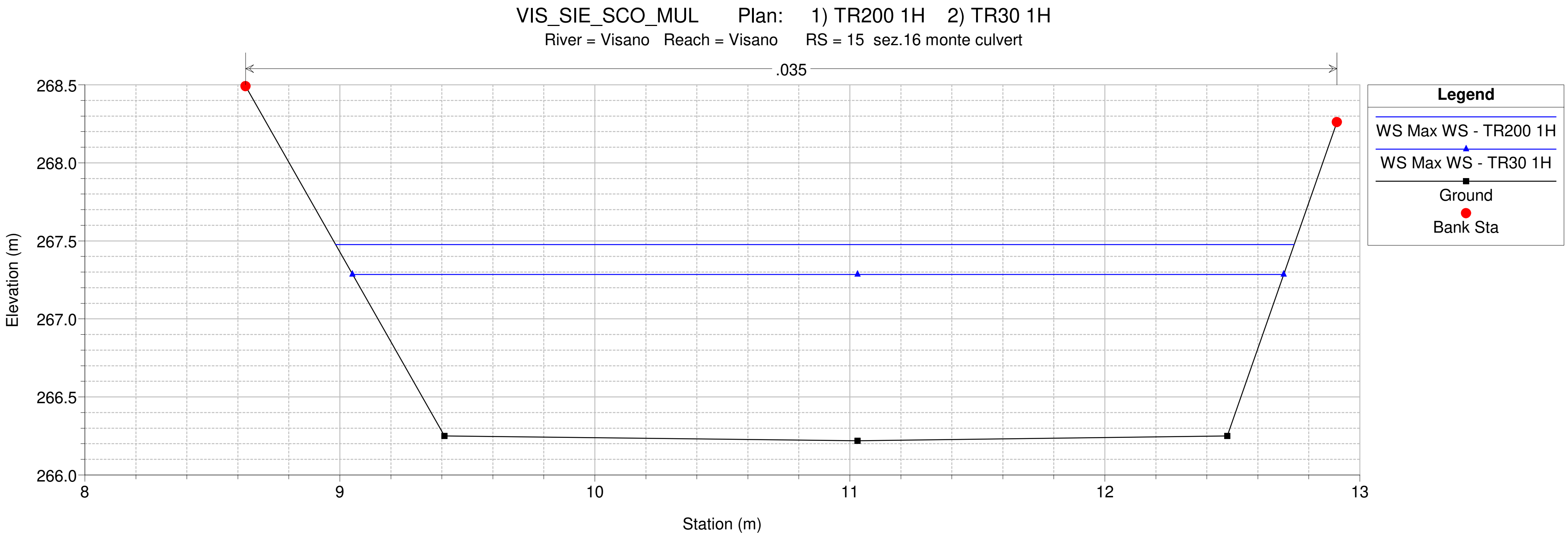
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 20 sez.11 valle culvert
.035
Elevation (m)
273.5
273.0
272.5
272.0
271.5
271.0
270.5
270.0
4
6
8
10
12
14
16
18
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 19 sez.12
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
Station (m)
272.0
271.5
271.0
270.5
270.0
269.5
10
12
14
16
18
20
22
24
26

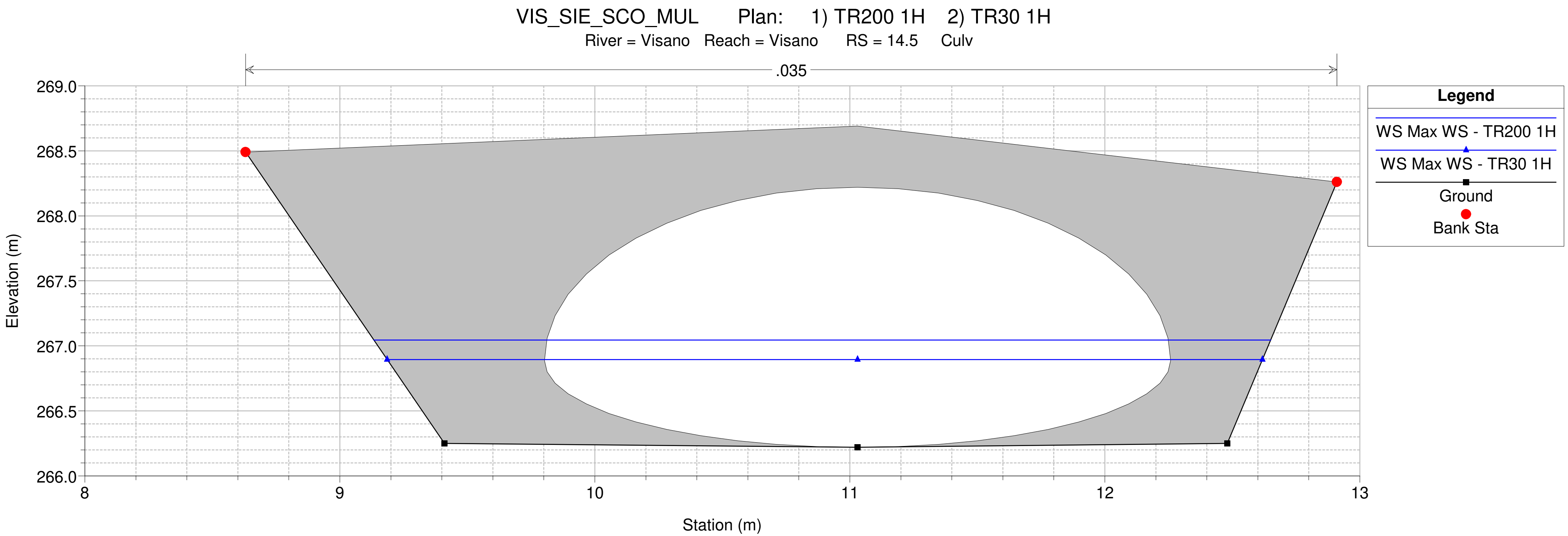

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 18 sez.13
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
Station (m)
271.0
270.5
270.0
269.5
269.0
268.5
268.0
6
8
10
12
14
16
18
20
22
24


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 17 sez.14
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta

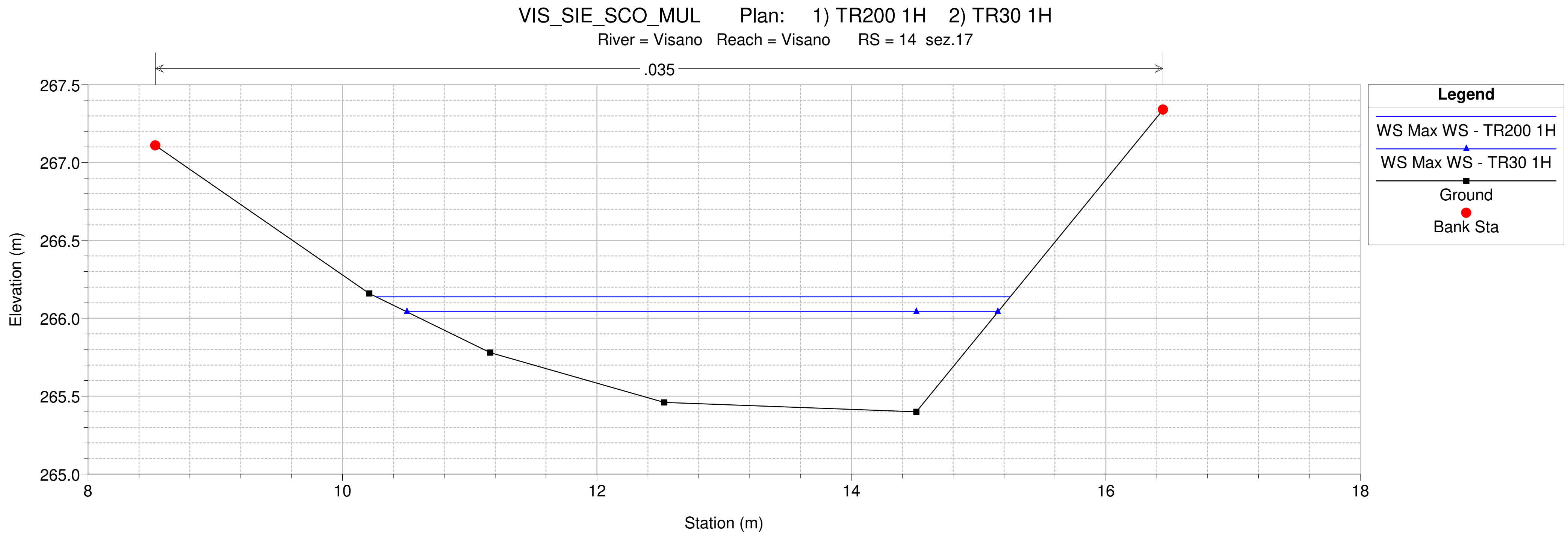

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 16 sez.15
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta

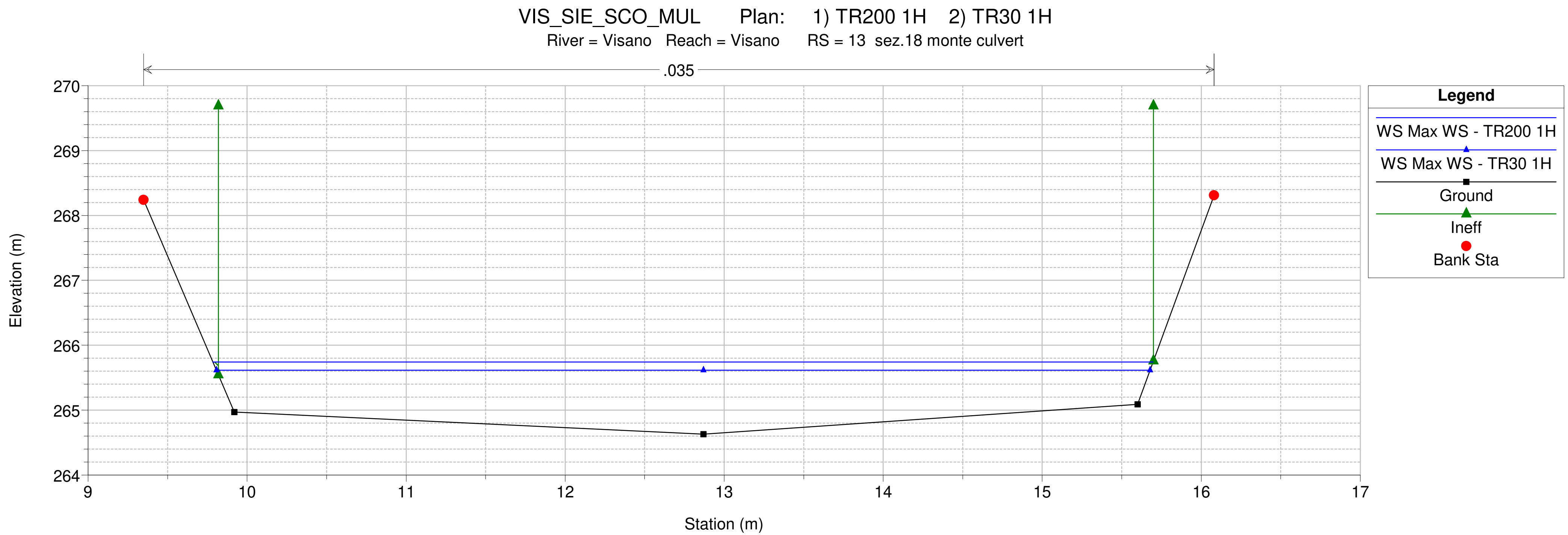


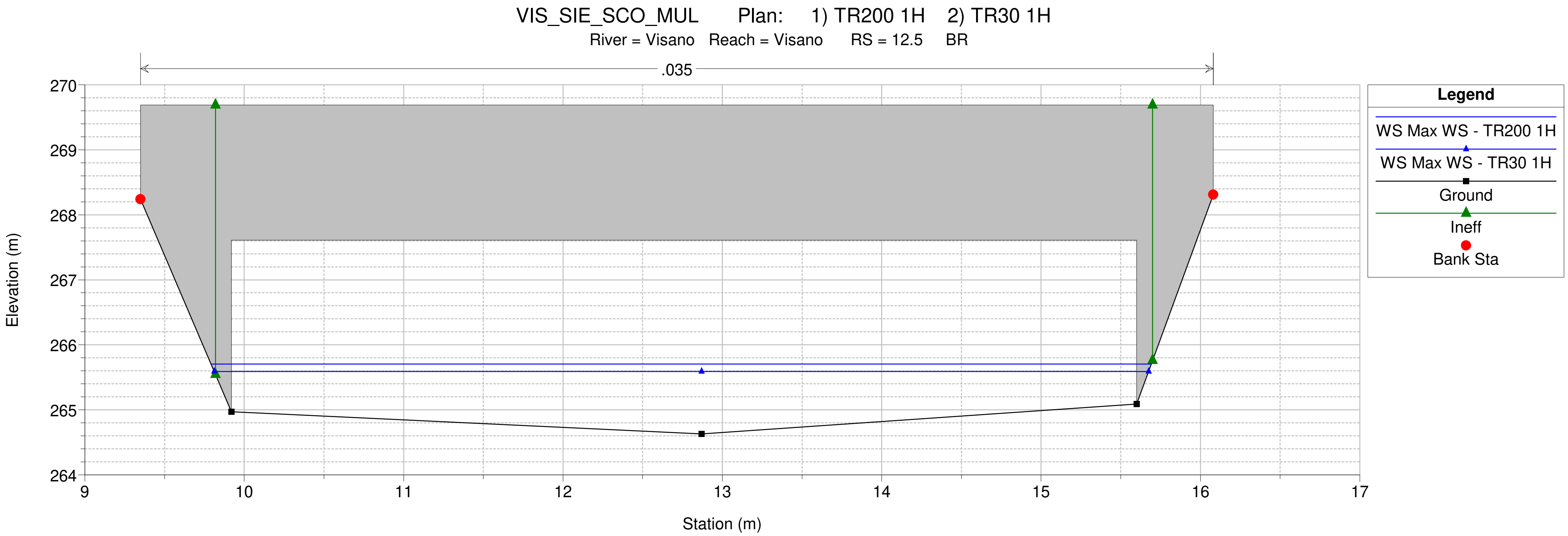
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 15 sez.16 monte culvert
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta



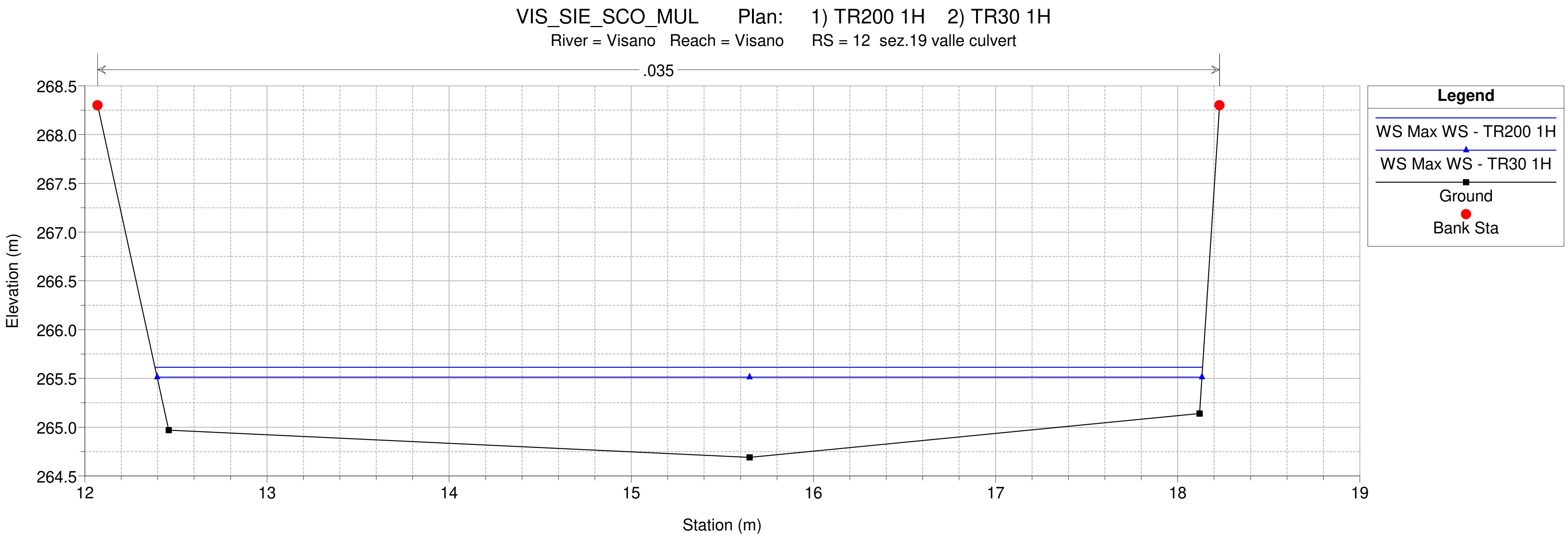
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 14.5 Culv
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 14 sez.17
.035
267.5
267.0
266.5
266.0
265.5
265.0
Elevation (m)
8
10
12
14
16
18
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta

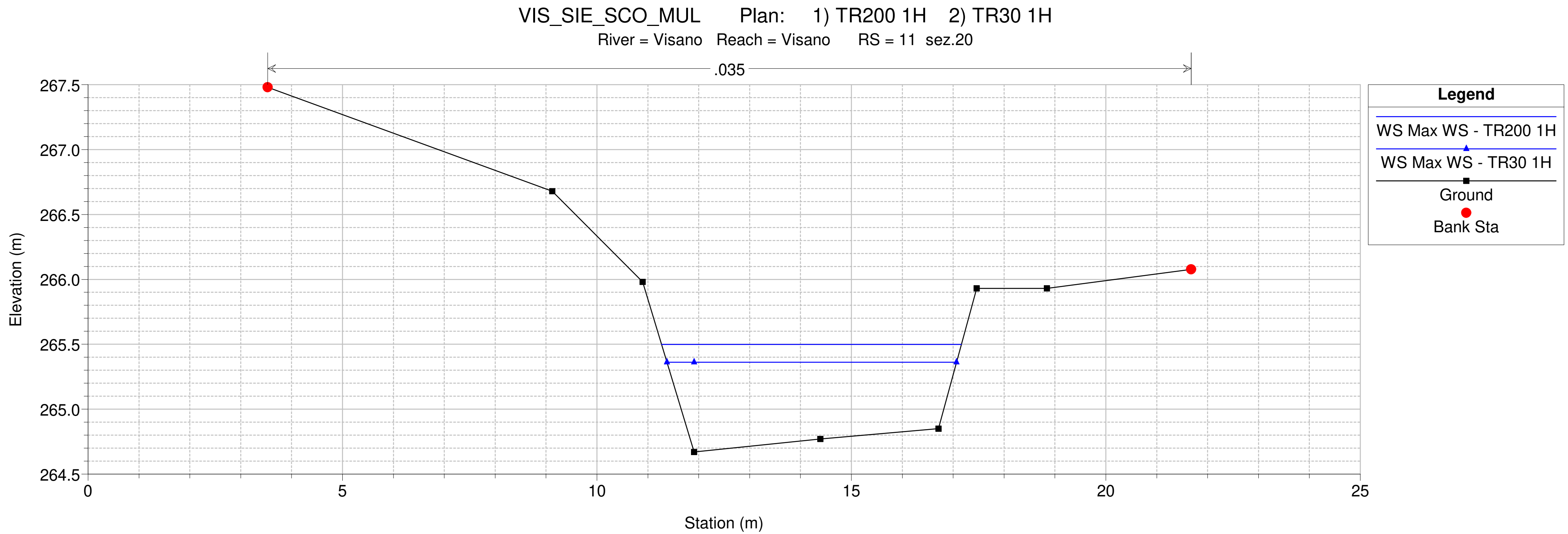

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 13 sez.18 monte culvert
.035
270
269
268
267
266
265
264
Elevation (m)
9
10
11
12
13
14
15
16
17
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta

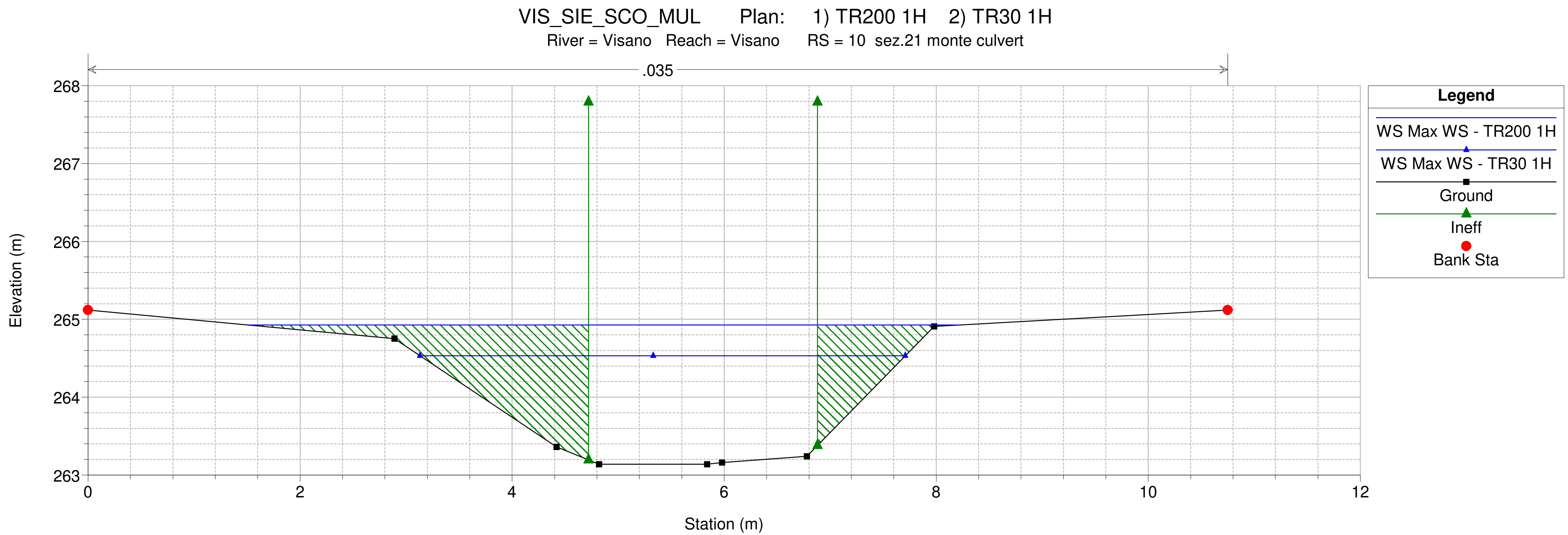


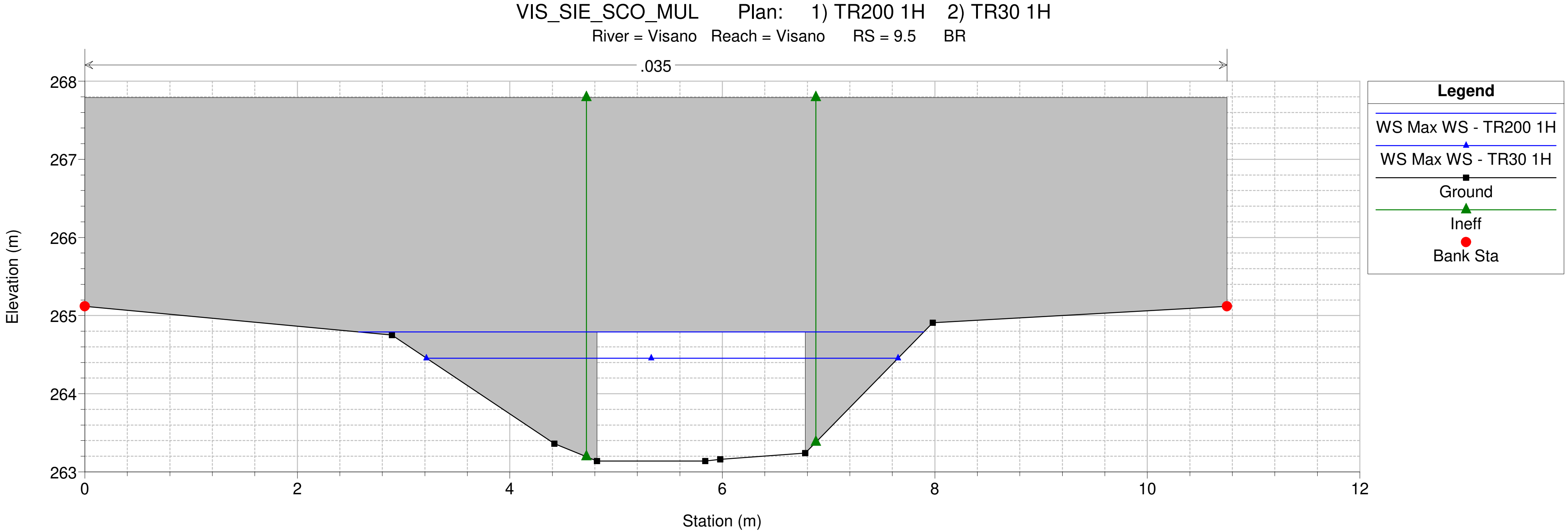
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 12.5 BR
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta

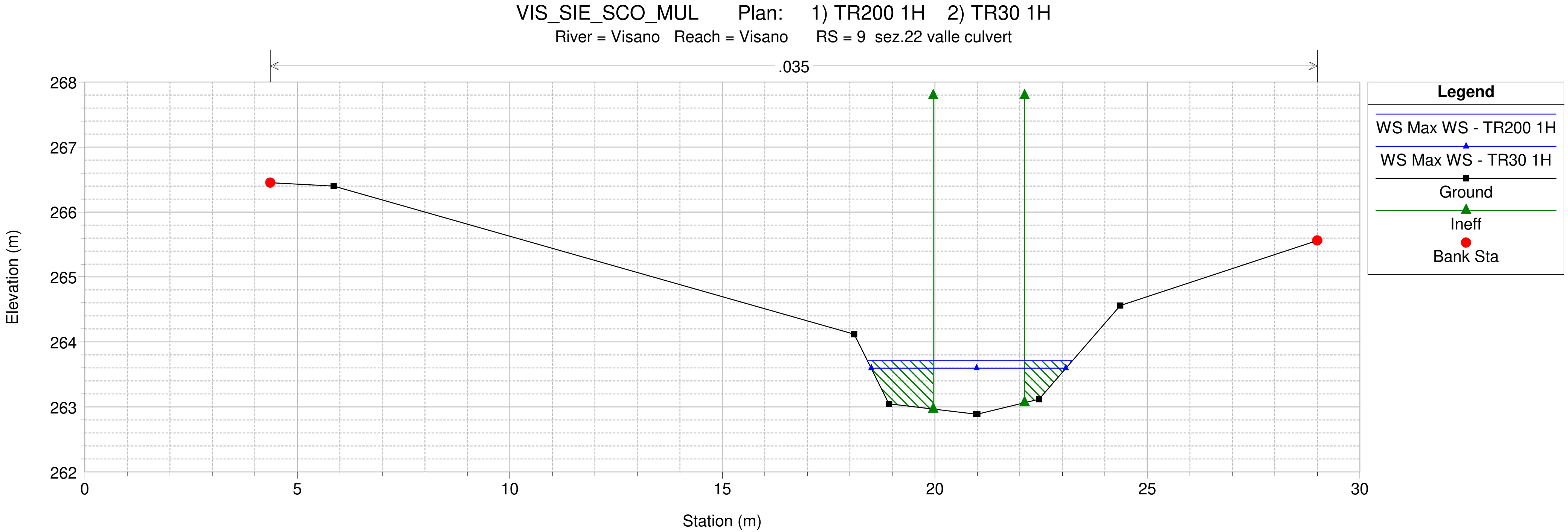


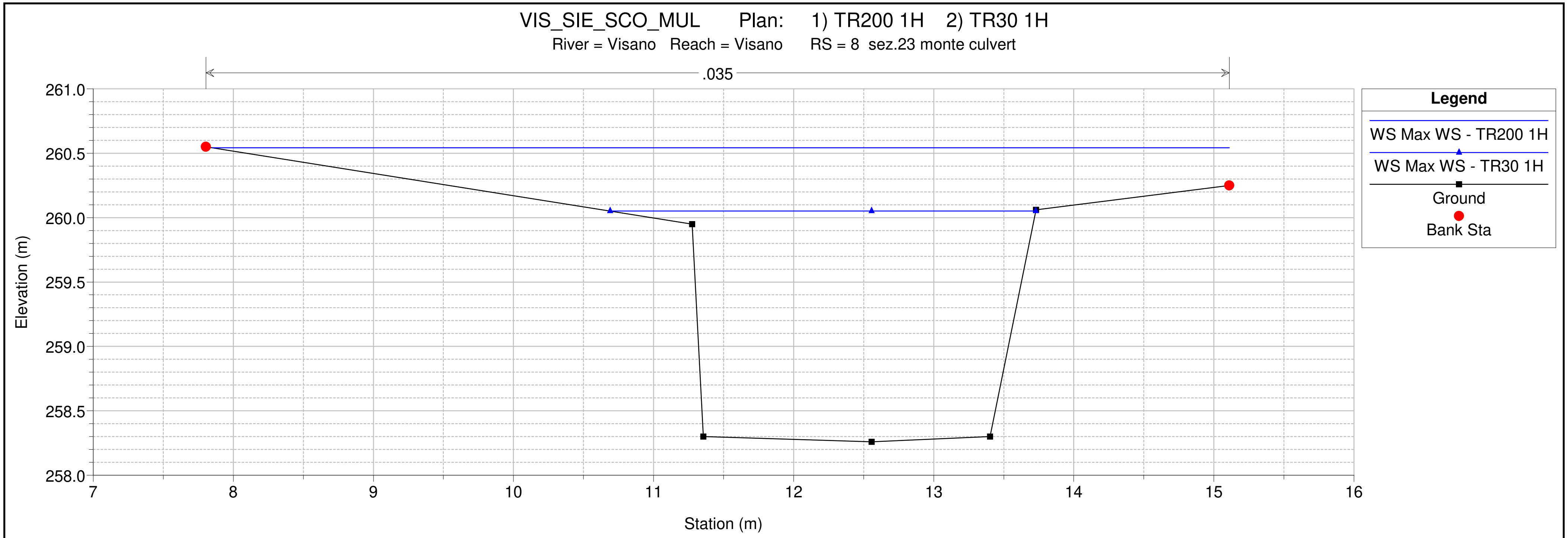
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 12 sez.19 valle culvert
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 11 sez.20
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta

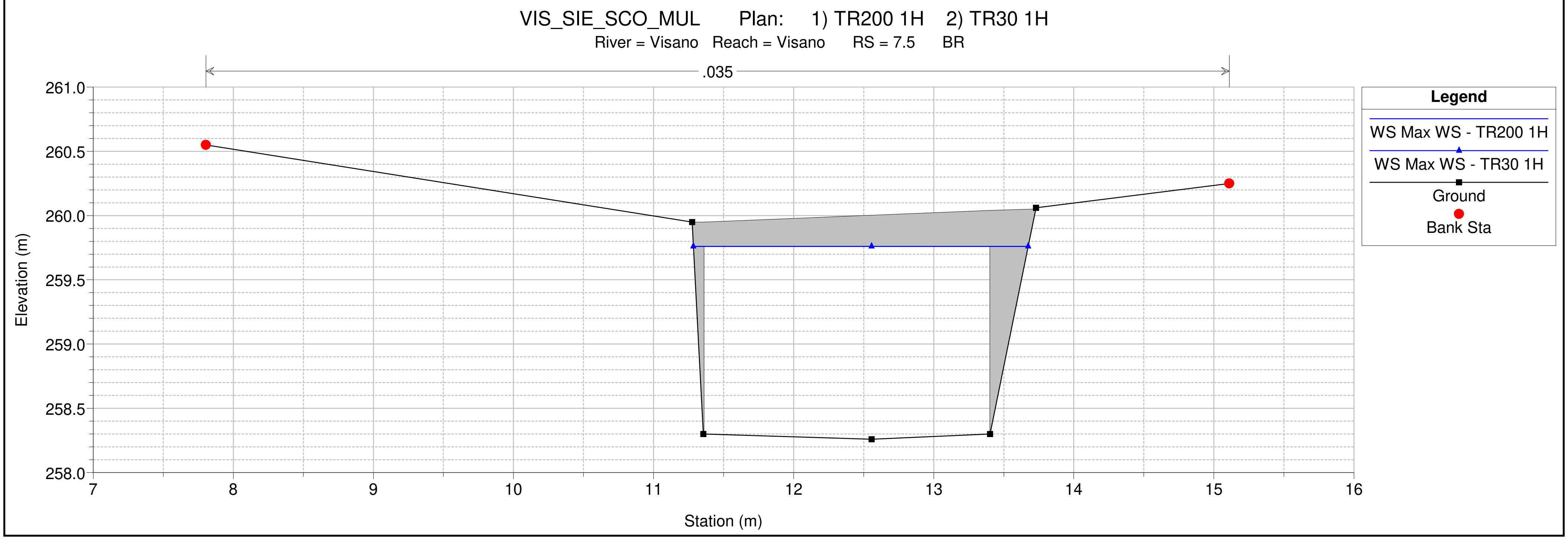

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 10 sez.21 monte culvert
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 9.5 BR
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
268
267
266
265
264
263
0
2
4
6
8
10
12

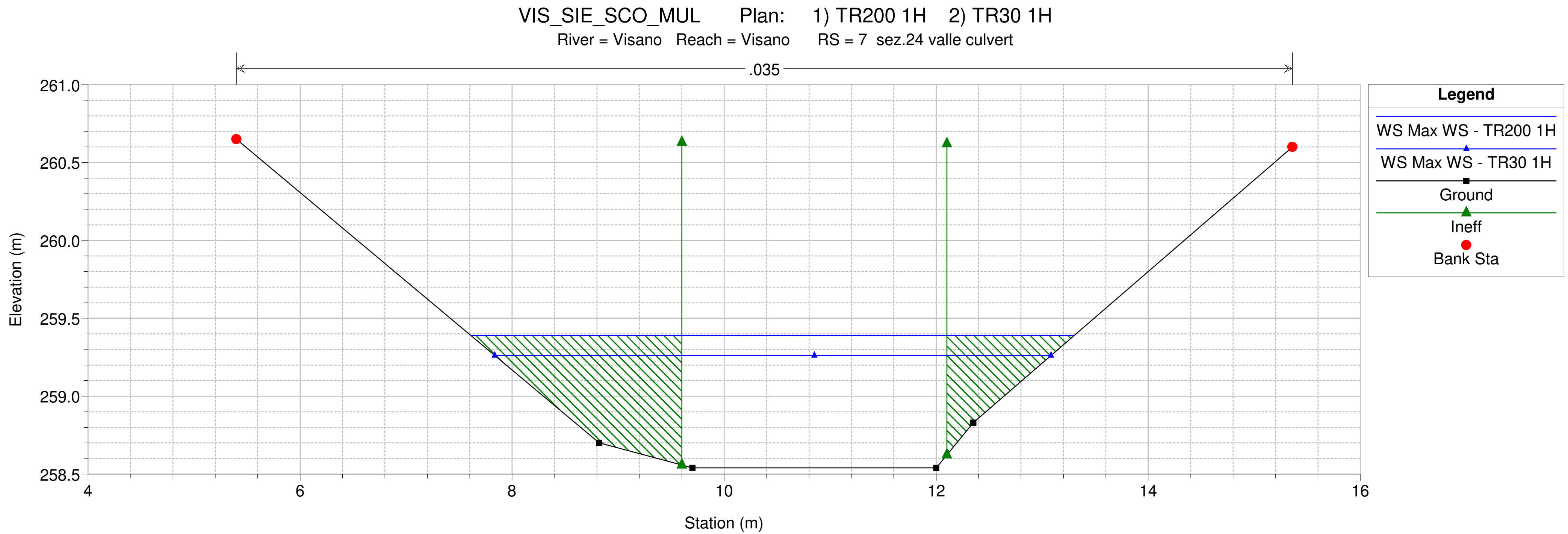

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 9 sez.22 valle culvert
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
268
267
266
265
264
263
262
0
5
10
15
20
25
30

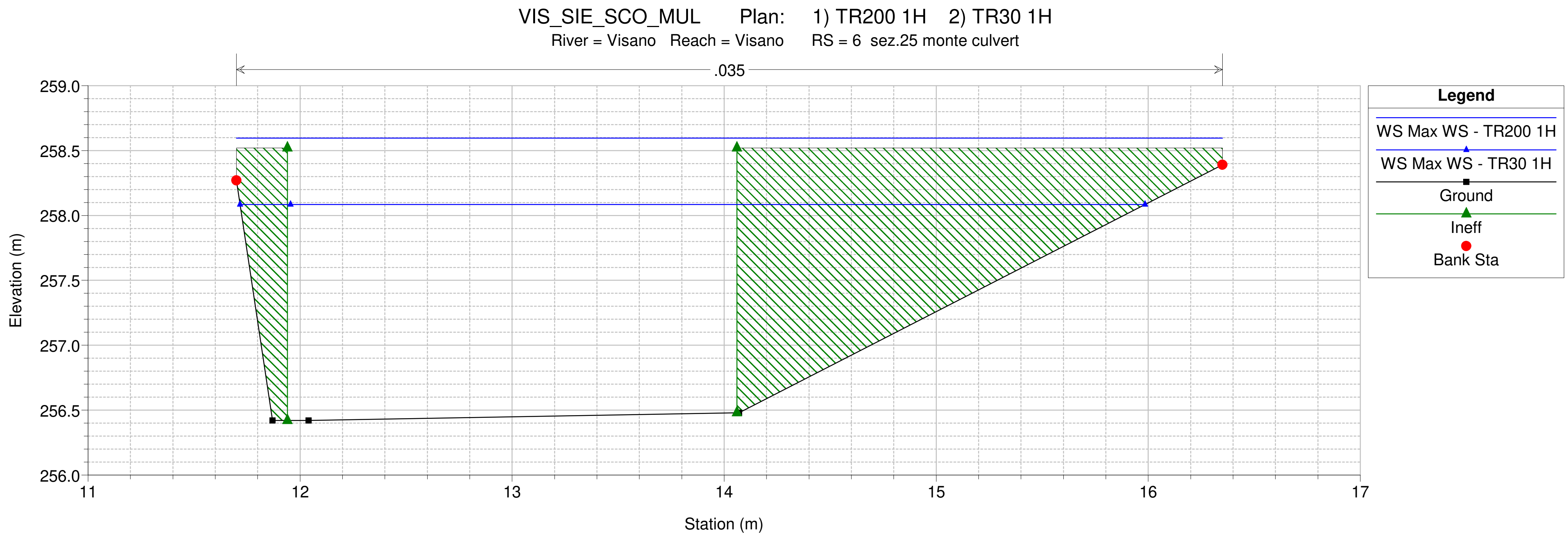


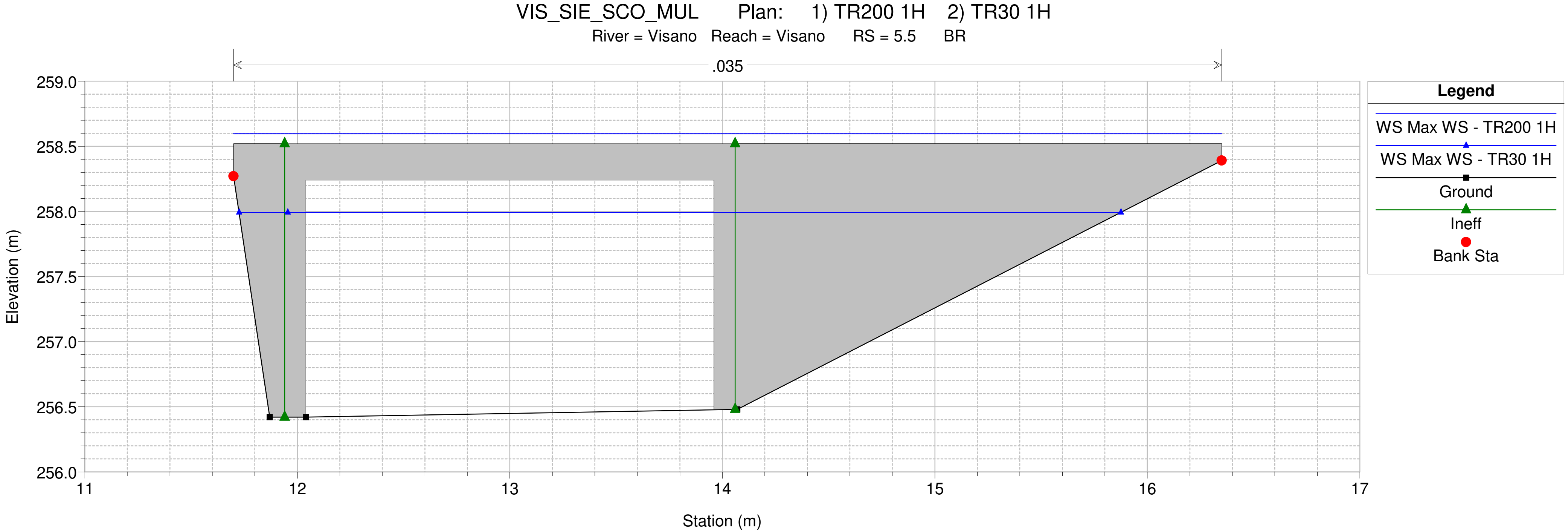
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 8 sez.23 monte culvert
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
Station (m)
261.0
260.5
260.0
259.5
259.0
258.5
258.0
7
8
9
10
11
12
13
14
15
16

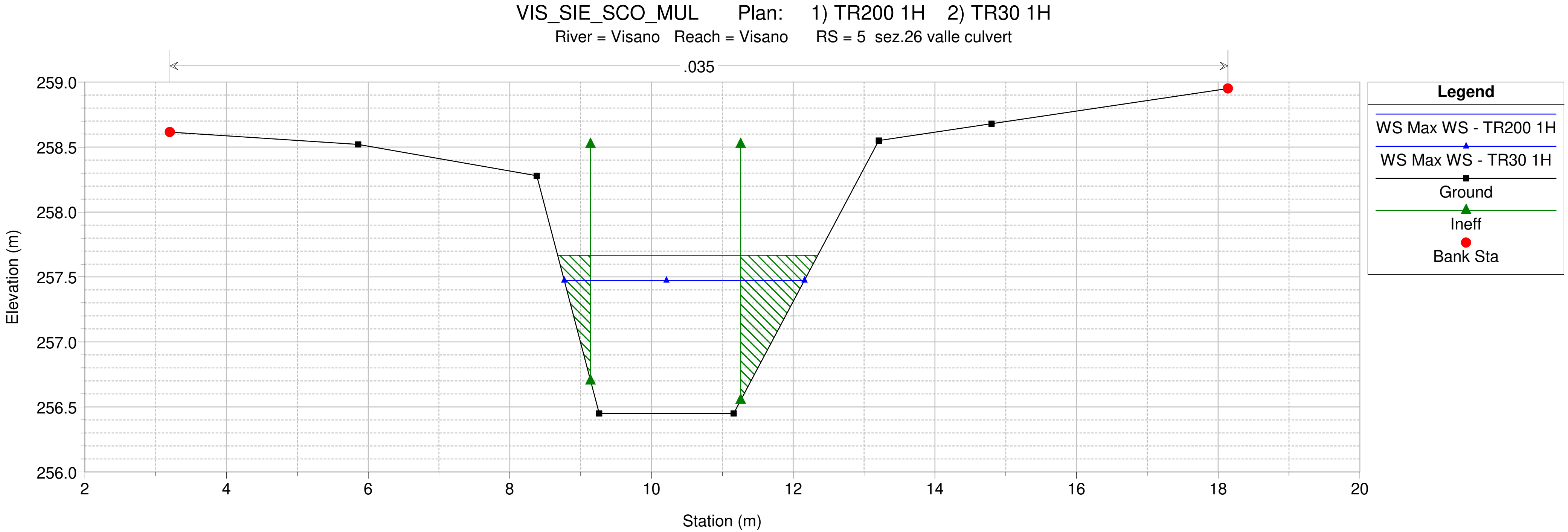


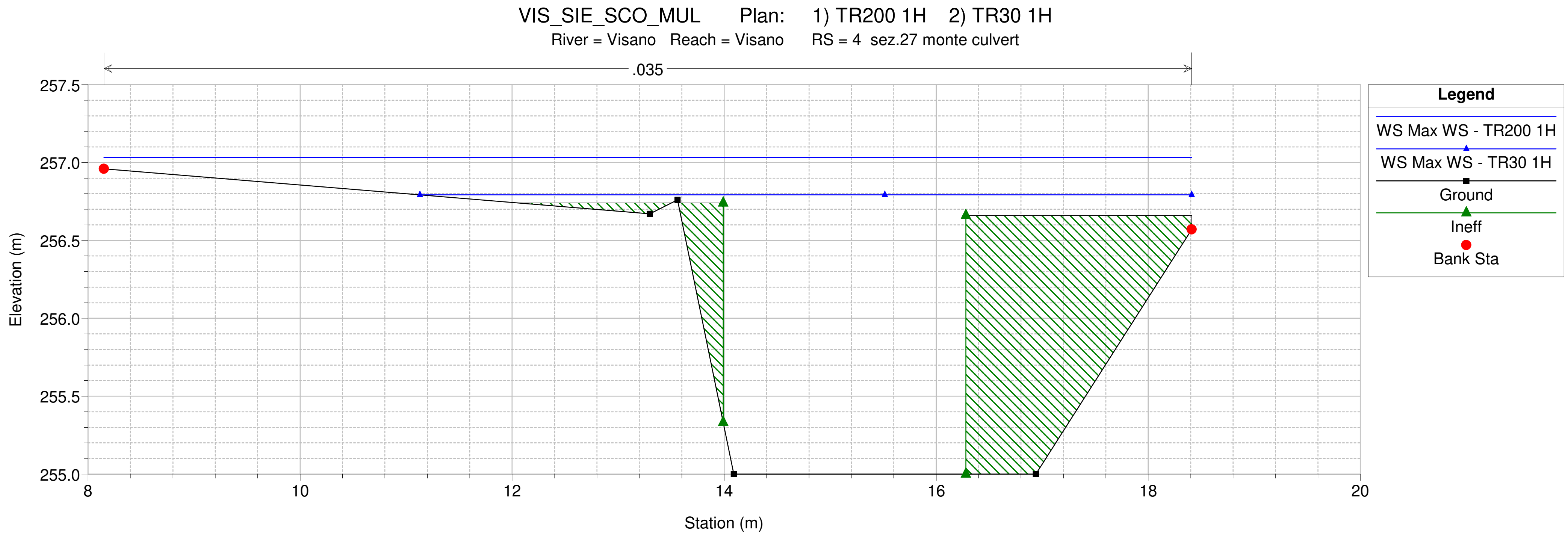
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 7.5 BR
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
Station (m)
261.0
260.5
260.0
259.5
259.0
258.5
258.0
7
8
9
10
11
12
13
14
15
16


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 7 sez.24 valle culvert
.035
Elevation (m)
261.0
260.5
260.0
259.5
259.0
258.5
4
6
8
10
12
14
16
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta

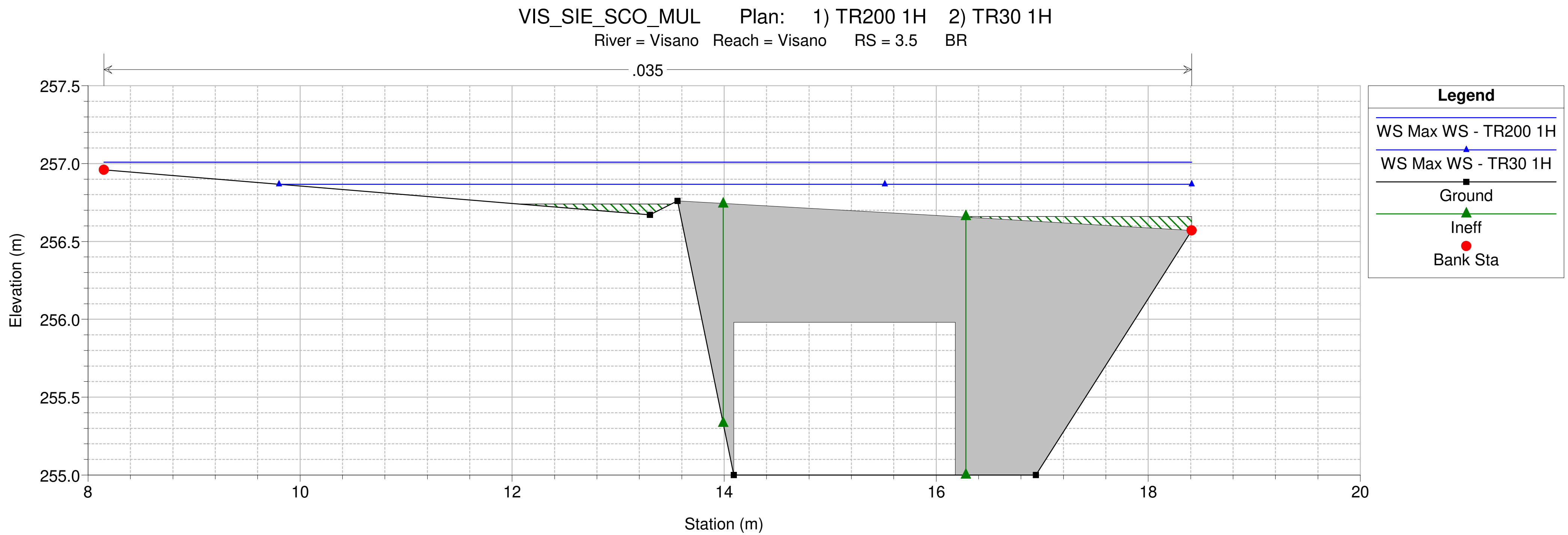

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 6 sez.25 monte culvert
.035
Elevation (m)
259.0
258.5
258.0
257.5
257.0
256.5
256.0
11
12
13
14
15
16
17
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 5.5 BR
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta
Elevation (m)
259.0
258.5
258.0
257.5
257.0
256.5
256.0
11
12
13
14
15
16
17
Station (m)

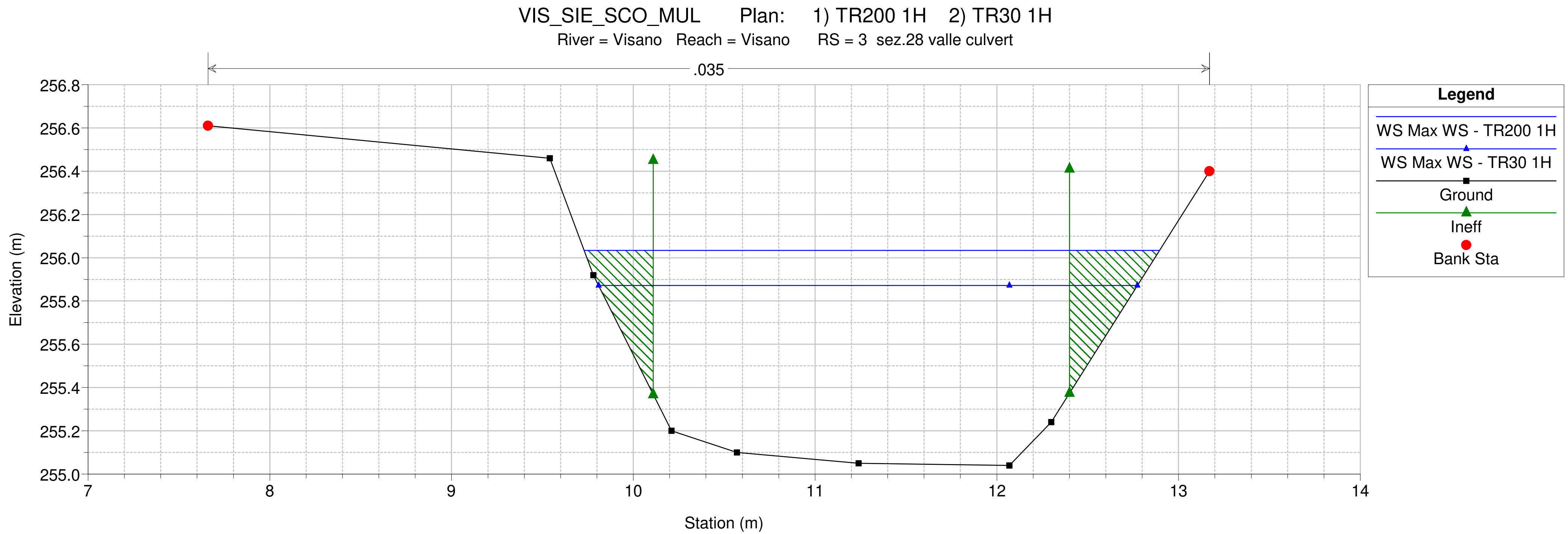

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 5 sez.26 valle culvert
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta
Elevation (m)
259.0
258.5
258.0
257.5
257.0
256.5
256.0
2
4
6
8
10
12
14
16
18
20
Station (m)

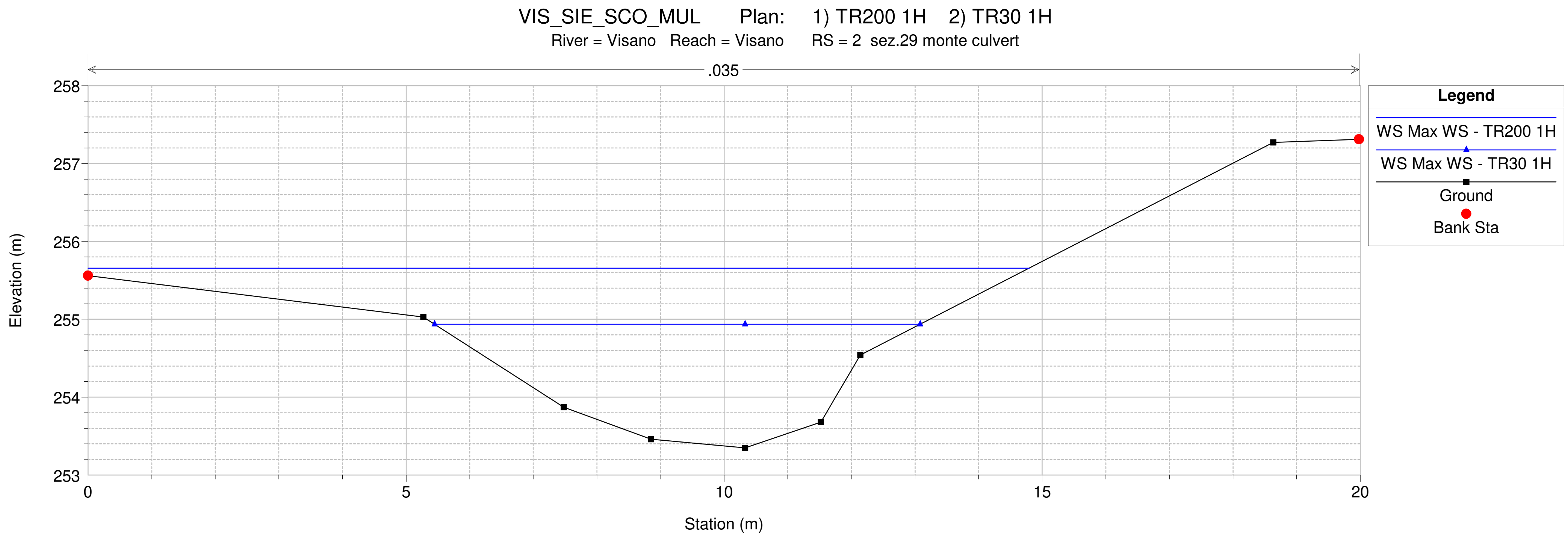


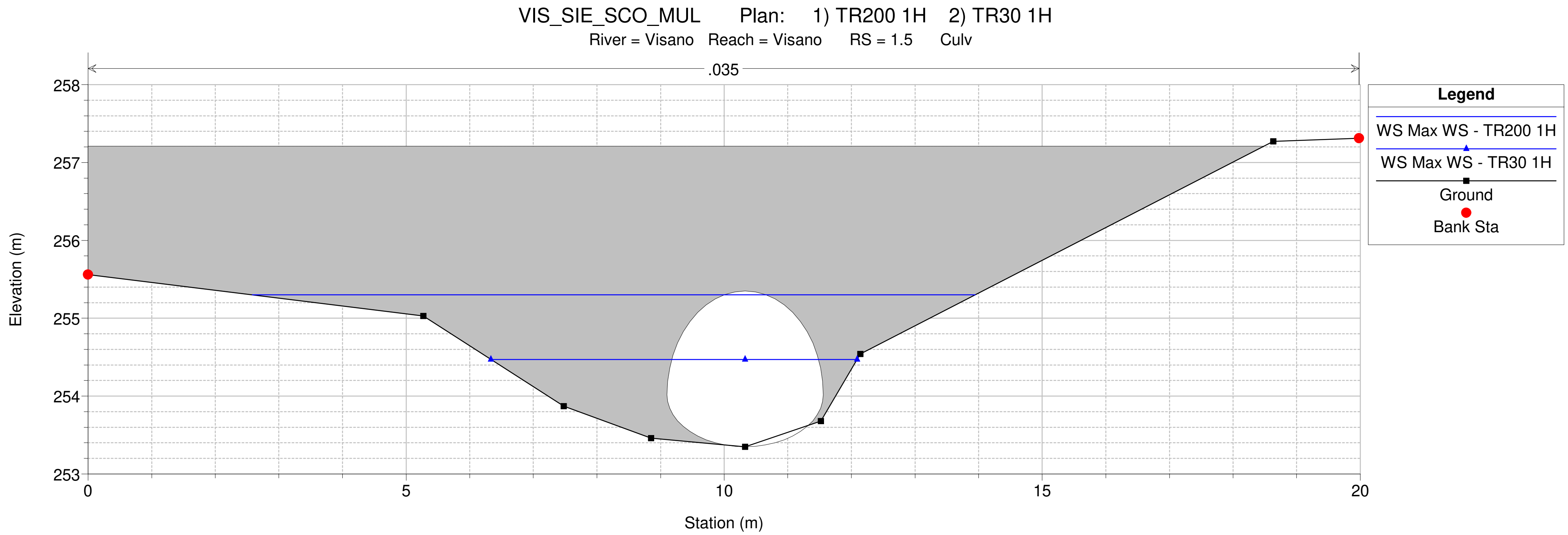
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 4 sez.27 monte culvert
.035
Elevation (m)
257.5
257.0
256.5
256.0
255.5
255.0
8
10
12
14
16
18
20
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta



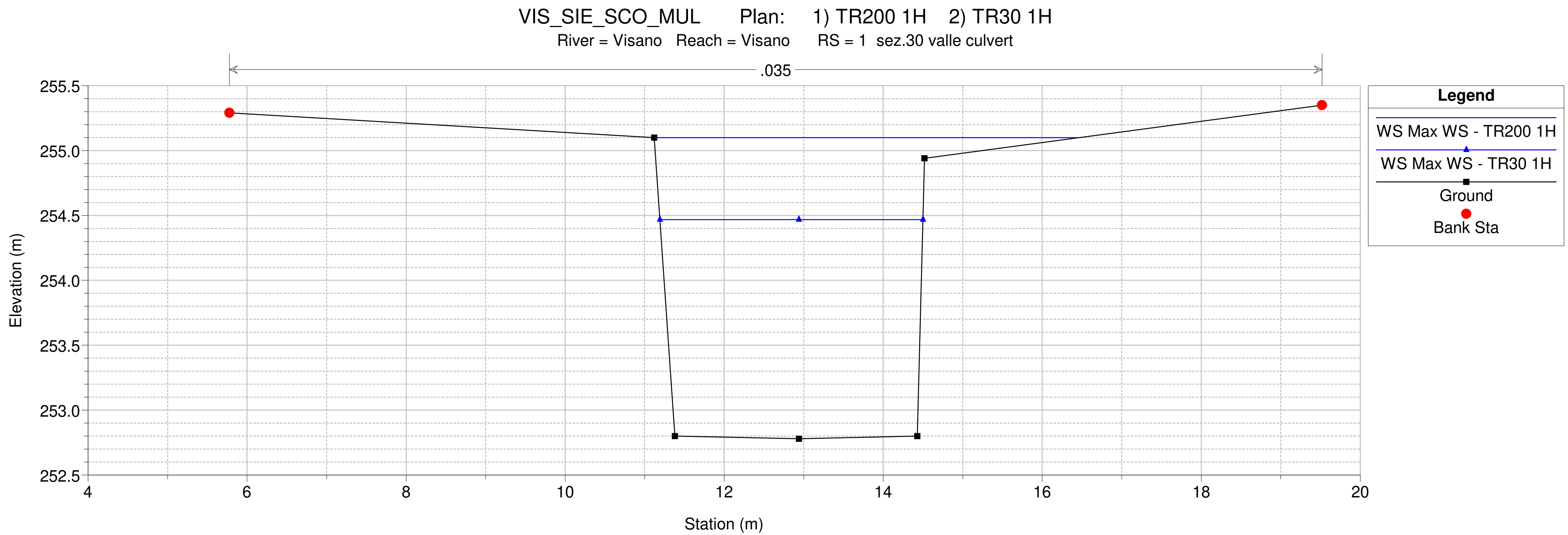
VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 3.5 BR
.035
Elevation (m)
257.5
257.0
256.5
256.0
255.5
255.0
8
10
12
14
16
18
20
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta


VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 3 sez.28 valle culvert
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Ineff
Bank Sta

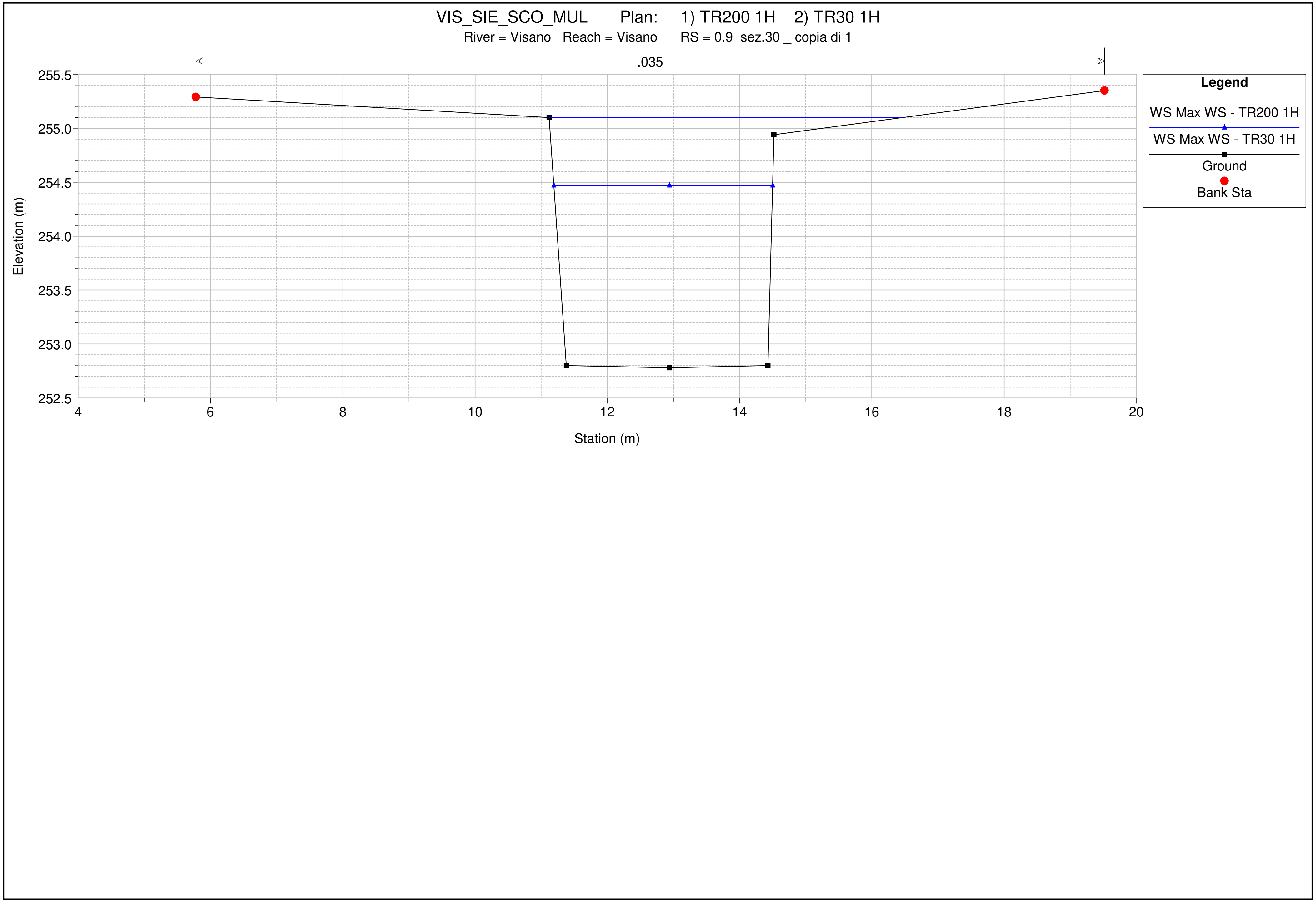

VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 2 sez.29 monte culvert
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta



VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 1.5 Culv
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
Station (m)
258
257
256
255
254
253
0
5
10
15
20



VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 1 sez.30 valle culvert
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
Station (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
4
6
8
10
12
14
16
18
20



VIS_SIE_SCO_MUL Plan: 1) TR200 1H 2) TR30 1H
River = Visano Reach = Visano RS = 0.9 sez.30 _ copia di 1
.035
Legend
WS Max WS - TR200 1H
WS Max WS - TR30 1H
Ground
Bank Sta
Elevation (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
4
6
8
10
12
14
16
18
20
Station (m)

HEC-RAS River: Visano Reach: Visano Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Visano	29	Max WS	TR200 2H	1.00	281.26	281.65	281.69	281.82	0.034767	1.86	0.54	2.44	1.26
Visano	29	Max WS	TR200 1H	1.00	281.26	281.65	281.69	281.82	0.034514	1.85	0.54	2.44	1.26
Visano	29	Max WS	TR30 2H	1.00	281.26	281.65	281.69	281.82	0.035021	1.87	0.54	2.43	1.27
Visano	29	Max WS	TR30 1H	1.00	281.26	281.65	281.69	281.82	0.034890	1.86	0.54	2.43	1.27
Visano	28.9	Max WS	TR200 2H	1.00	281.26	281.64	281.69	281.83	0.036184	1.89	0.53	2.42	1.29
Visano	28.9	Max WS	TR200 1H	1.00	281.26	281.64	281.69	281.83	0.035919	1.88	0.53	2.42	1.28
Visano	28.9	Max WS	TR30 2H	1.00	281.26	281.64	281.69	281.83	0.036581	1.90	0.53	2.41	1.30
Visano	28.9	Max WS	TR30 1H	1.00	281.26	281.64	281.69	281.83	0.036321	1.89	0.53	2.42	1.29
Visano	28.899			Lat Struct									
Visano	28.898			Lat Struct									
Visano	28	Max WS	TR200 2H	1.55	277.75	278.26	278.27	278.39	0.022681	1.62	0.96	3.93	1.05
Visano	28	Max WS	TR200 1H	1.72	277.75	278.28	278.29	278.42	0.022220	1.65	1.04	4.11	1.04
Visano	28	Max WS	TR30 2H	1.39	277.75	278.23	278.24	278.36	0.023194	1.59	0.87	3.75	1.05
Visano	28	Max WS	TR30 1H	1.50	277.75	278.25	278.26	278.38	0.022799	1.61	0.93	3.88	1.05
Visano	27	Max WS	TR200 2H	1.83	276.22	276.97	277.02	277.22	0.029273	2.23	0.82	2.19	1.17
Visano	27	Max WS	TR200 1H	2.08	276.22	277.01	277.06	277.28	0.028841	2.29	0.91	2.30	1.17
Visano	27	Max WS	TR30 2H	1.58	276.22	276.93	276.97	277.17	0.029768	2.17	0.73	2.06	1.16
Visano	27	Max WS	TR30 1H	1.75	276.22	276.96	277.00	277.21	0.029405	2.21	0.79	2.15	1.16
Visano	26	Max WS	TR200 2H	2.57	272.55	273.17	272.97	273.27	0.005240	1.39	1.85	3.28	0.57
Visano	26	Max WS	TR200 1H	3.03	272.55	273.23	273.02	273.35	0.005182	1.48	2.05	3.33	0.57
Visano	26	Max WS	TR30 2H	2.09	272.55	273.10	272.92	273.18	0.005279	1.28	1.63	3.24	0.56
Visano	26	Max WS	TR30 1H	2.42	272.55	273.15	272.96	273.24	0.005254	1.36	1.79	3.27	0.56
Visano	25.5			Bridge									
Visano	25	Max WS	TR200 2H	2.57	272.44	272.88	272.91	273.12	0.024305	2.15	1.19	3.14	1.10
Visano	25	Max WS	TR200 1H	3.04	272.44	272.93	272.96	273.19	0.023703	2.27	1.34	3.17	1.10
Visano	25	Max WS	TR30 2H	2.09	272.44	272.83	272.86	273.04	0.025114	2.02	1.04	3.10	1.11
Visano	25	Max WS	TR30 1H	2.42	272.44	272.87	272.90	273.10	0.024525	2.11	1.15	3.13	1.11
Visano	24.99			Lat Struct									
Visano	24.98			Lat Struct									
Visano	24	Max WS	TR200 2H	2.78	271.39	271.98	272.01	272.20	0.021114	2.07	1.34	3.53	1.07
Visano	24	Max WS	TR200 1H	3.30	271.39	272.04	272.06	272.27	0.020782	2.16	1.53	3.75	1.08
Visano	24	Max WS	TR30 2H	2.24	271.39	271.92	271.94	272.12	0.021451	1.97	1.14	3.29	1.07
Visano	24	Max WS	TR30 1H	2.61	271.39	271.97	271.99	272.18	0.021252	2.04	1.28	3.46	1.07
Visano	23	Max WS	TR200 2H	3.04	270.30	271.02	270.87	271.16	0.007652	1.63	1.87	3.29	0.66
Visano	23	Max WS	TR200 1H	3.65	270.30	271.12	270.93	271.26	0.006879	1.68	2.17	3.36	0.63
Visano	23	Max WS	TR30 2H	2.42	270.30	270.93	270.80	271.05	0.007714	1.51	1.61	3.23	0.66
Visano	23	Max WS	TR30 1H	2.85	270.30	271.00	270.85	271.13	0.007351	1.57	1.81	3.28	0.65
Visano	22.5			Bridge									
Visano	22	Max WS	TR200 2H	3.04	270.25	270.99	270.73	271.09	0.004313	1.38	2.21	3.35	0.51
Visano	22	Max WS	TR200 1H	3.65	270.25	271.09	270.79	271.20	0.004086	1.46	2.50	3.42	0.51
Visano	22	Max WS	TR30 2H	2.42	270.25	270.92	270.66	271.00	0.003933	1.22	1.98	3.30	0.48
Visano	22	Max WS	TR30 1H	2.85	270.25	270.98	270.71	271.07	0.004007	1.31	2.17	3.34	0.49
Visano	21.99			Lat Struct									
Visano	21.98			Lat Struct									
Visano	21	Max WS	TR200 2H	3.10	270.28	270.93	270.76	271.05	0.006348	1.54	2.02	3.42	0.62
Visano	21	Max WS	TR200 1H	3.72	270.28	271.01	270.81	271.15	0.006080	1.63	2.28	3.47	0.62
Visano	21	Max WS	TR30 2H	2.46	270.28	270.84	270.69	270.94	0.006645	1.42	1.73	3.36	0.62
Visano	21	Max WS	TR30 1H	2.90	270.28	270.90	270.74	271.02	0.006431	1.50	1.93	3.40	0.62
Visano	20.5			Bridge									
Visano	20	Max WS	TR200 2H	3.10	270.19	270.53	270.65	270.96	0.044524	2.91	1.06	4.08	1.60
Visano	20	Max WS	TR200 1H	3.72	270.19	270.57	270.71	271.05	0.041881	3.07	1.21	4.14	1.59
Visano	20	Max WS	TR30 2H	2.46	270.19	270.48	270.58	270.85	0.047789	2.71	0.91	4.02	1.62
Visano	20	Max WS	TR30 1H	2.90	270.19	270.51	270.63	270.93	0.045409	2.85	1.02	4.06	1.61
Visano	19.99			Lat Struct									
Visano	19.98			Lat Struct									
Visano	19	Max WS	TR200 2H	3.16	269.51	270.16	270.14	270.35	0.015764	1.95	1.62	3.70	0.94
Visano	19	Max WS	TR200 1H	3.80	269.51	270.22	270.20	270.44	0.015617	2.05	1.85	3.88	0.95
Visano	19	Max WS	TR30 2H	2.50	269.51	270.09	270.07	270.26	0.015647	1.82	1.38	3.50	0.93
Visano	19	Max WS	TR30 1H	2.96	269.51	270.14	270.12	270.33	0.015613	1.91	1.55	3.65	0.94
Visano	18	Max WS	TR200 2H	3.55	268.27	269.06	268.96	269.21	0.009854	1.70	2.08	4.05	0.76
Visano	18	Max WS	TR200 1H	4.30	268.27	269.14	269.03	269.30	0.009508	1.77	2.43	4.29	0.75
Visano	18	Max WS	TR30 2H	2.78	268.27	268.98	268.88	269.10	0.009677	1.58	1.76	3.79	0.74

HEC-RAS River: Visano Reach: Visano Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Visano	18	Max WS	TR30 1H	3.31	268.27	269.04	268.93	269.18	0.009603	1.65	2.00	3.98	0.75
Visano	17	Max WS	TR200 2H	4.24	267.18	267.89	267.75	268.03	0.007939	1.62	2.61	4.61	0.69
Visano	17	Max WS	TR200 1H	5.19	267.18	267.99	267.82	268.13	0.007524	1.70	3.06	4.80	0.68
Visano	17	Max WS	TR30 2H	3.26	267.18	267.80	267.67	267.91	0.007947	1.49	2.18	4.43	0.68
Visano	17	Max WS	TR30 1H	3.93	267.18	267.87	267.73	267.99	0.007788	1.57	2.50	4.57	0.68
Visano	16	Max WS	TR200 2H	4.63	266.46	267.39	267.17	267.50	0.005623	1.49	3.11	4.81	0.59
Visano	16	Max WS	TR200 1H	5.70	266.46	267.52	267.25	267.63	0.004967	1.52	3.75	5.07	0.56
Visano	16	Max WS	TR30 2H	3.53	266.46	267.18	267.09	267.32	0.009412	1.63	2.16	4.41	0.74
Visano	16	Max WS	TR30 1H	4.29	266.46	267.31	267.15	267.44	0.006850	1.56	2.75	4.67	0.65
Visano	15	Max WS	TR200 2H	4.72	266.22	267.34		267.42	0.003174	1.27	3.73	3.68	0.40
Visano	15	Max WS	TR200 1H	5.81	266.22	267.48		267.57	0.003365	1.37	4.23	3.76	0.41
Visano	15	Max WS	TR30 2H	3.59	266.22	267.16		267.23	0.003213	1.17	3.06	3.58	0.41
Visano	15	Max WS	TR30 1H	4.37	266.22	267.29		267.36	0.003175	1.24	3.53	3.65	0.40
Visano	14.5			Culvert									
Visano	14	Max WS	TR200 2H	4.72	265.40	266.07	266.07	266.30	0.017097	2.14	2.21	4.74	1.00
Visano	14	Max WS	TR200 1H	5.81	265.40	266.14	266.15	266.40	0.017413	2.28	2.54	4.98	1.02
Visano	14	Max WS	TR30 2H	3.59	265.40	265.98	265.98	266.18	0.017376	1.98	1.81	4.44	0.99
Visano	14	Max WS	TR30 1H	4.37	265.40	266.04	266.04	266.27	0.017377	2.10	2.08	4.65	1.00
Visano	13.99			Lat Struct									
Visano	13.98			Lat Struct									
Visano	13	Max WS	TR200 2H	4.95	264.63	265.65	265.26	265.70	0.002243	1.05	4.71	5.88	0.37
Visano	13	Max WS	TR200 1H	6.10	264.63	265.74	265.32	265.81	0.002398	1.16	5.26	5.91	0.39
Visano	13	Max WS	TR30 2H	3.75	264.63	265.54	265.18	265.58	0.002019	0.92	4.09	5.85	0.35
Visano	13	Max WS	TR30 1H	4.57	264.63	265.62	265.23	265.67	0.002173	1.01	4.52	5.87	0.37
Visano	12.5			Bridge									
Visano	12	Max WS	TR200 2H	4.95	264.69	265.53	265.29	265.62	0.004445	1.31	3.79	5.74	0.51
Visano	12	Max WS	TR200 1H	6.10	264.69	265.61	265.36	265.72	0.004731	1.43	4.26	5.75	0.53
Visano	12	Max WS	TR30 2H	3.75	264.69	265.45	265.22	265.51	0.003918	1.14	3.30	5.73	0.48
Visano	12	Max WS	TR30 1H	4.57	264.69	265.51	265.27	265.59	0.004166	1.24	3.67	5.74	0.50
Visano	11.99			Lat Struct									
Visano	11.98			Lat Struct									
Visano	11	Max WS	TR200 2H	5.04	264.67	265.38	265.23	265.50	0.007038	1.54	3.27	5.72	0.65
Visano	11	Max WS	TR200 1H	6.21	264.67	265.50	265.30	265.63	0.006117	1.58	3.94	5.89	0.62
Visano	11	Max WS	TR30 2H	3.81	264.67	265.29	265.15	265.39	0.006933	1.39	2.74	5.58	0.63
Visano	11	Max WS	TR30 1H	4.65	264.67	265.36	265.21	265.47	0.006746	1.48	3.15	5.69	0.63
Visano	10	Max WS	TR200 2H	5.75	263.14	264.61	264.07	264.79	0.002713	1.85	3.11	4.73	0.49
Visano	10	Max WS	TR200 1H	7.09	263.14	264.93	264.21	265.11	0.002141	1.87	3.79	6.70	0.45
Visano	10	Max WS	TR30 2H	4.31	263.14	264.36	263.91	264.50	0.002920	1.68	2.56	4.26	0.49
Visano	10	Max WS	TR30 1H	5.29	263.14	264.53	264.02	264.70	0.002782	1.80	2.94	4.58	0.49
Visano	9.5			Bridge									
Visano	9	Max WS	TR200 2H	5.75	262.89	263.63	263.85	264.43	0.033156	3.97	1.45	4.65	1.55
Visano	9	Max WS	TR200 1H	7.09	262.89	263.71	263.99	264.68	0.034009	4.36	1.63	4.82	1.60
Visano	9	Max WS	TR30 2H	4.31	262.89	263.53	263.70	264.15	0.032015	3.50	1.23	4.43	1.48
Visano	9	Max WS	TR30 1H	5.29	262.89	263.60	263.81	264.34	0.032799	3.83	1.38	4.58	1.53
Visano	8.99			Lat Struct									
Visano	8.98			Lat Struct									
Visano	8	Max WS	TR200 2H	6.93	258.26	260.14	259.31	260.27	0.006156	1.60	4.33	4.13	0.50
Visano	8	Max WS	TR200 1H	8.37	258.26	260.54	259.45	260.62	0.003480	1.24	6.74	7.26	0.41
Visano	8	Max WS	TR30 2H	5.13	258.26	259.93	259.13	260.02	0.003901	1.39	3.68	2.43	0.36
Visano	8	Max WS	TR30 1H	6.34	258.26	260.05	259.26	260.18	0.005306	1.58	4.02	3.04	0.44
Visano	7.5			Bridge									
Visano	7	Max WS	TR200 2H	6.93	258.54	259.30	259.46	259.98	0.024217	3.66	1.89	5.38	1.34
Visano	7	Max WS	TR200 1H	8.37	258.54	259.39	259.59	260.18	0.024215	3.95	2.12	5.69	1.37
Visano	7	Max WS	TR30 2H	5.13	258.54	259.18	259.30	259.71	0.023521	3.22	1.59	4.96	1.29
Visano	7	Max WS	TR30 1H	6.34	258.54	259.26	259.40	259.90	0.024055	3.53	1.80	5.25	1.33
Visano	6.99			Lat Struct									
Visano	6.98			Lat Struct									
Visano	6	Max WS	TR200 2H	7.54	256.42	258.18	257.54	258.39	0.002488	2.05	3.67	4.39	0.50
Visano	6	Max WS	TR200 1H	9.21	256.42	258.60	257.69	258.79	0.008577	1.94	4.75	4.65	0.61
Visano	6	Max WS	TR30 2H	5.56	256.42	257.88	257.34	258.05	0.002556	1.83	3.03	4.00	0.49
Visano	6	Max WS	TR30 1H	6.89	256.42	258.08	257.47	258.29	0.002507	1.99	3.47	4.27	0.50

HEC-RAS River: Visano Reach: Visano Profile: Max WS (Continued)

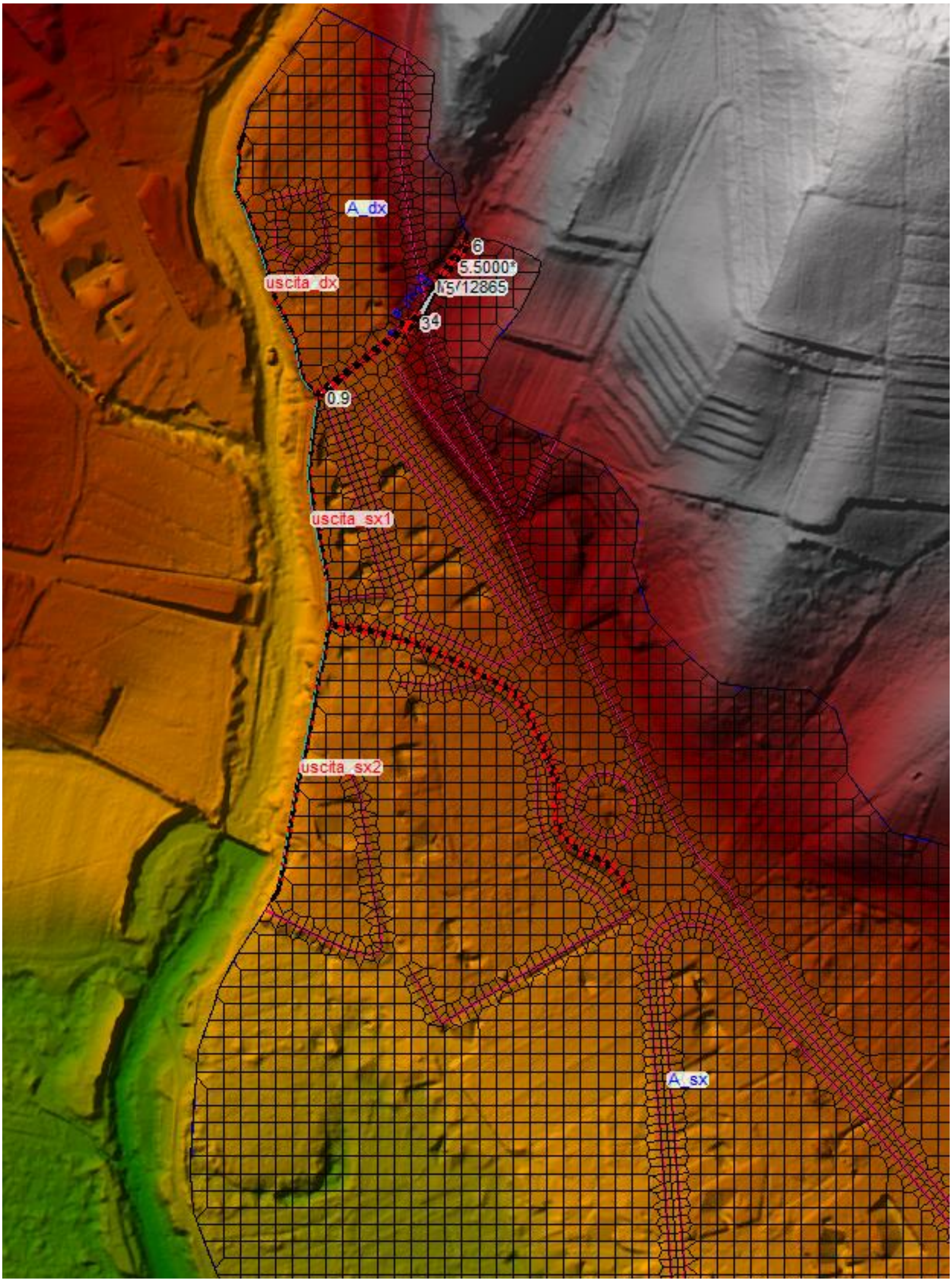
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Visano	5.5			Bridge									
Visano	5	Max WS	TR200 2H	7.54	256.45	257.55	257.55	258.09	0.013150	3.27	2.31	3.50	1.00
Visano	5	Max WS	TR200 1H	9.21	256.45	257.67	257.71	258.33	0.013876	3.60	2.56	3.67	1.04
Visano	5	Max WS	TR30 2H	5.56	256.45	257.35	257.35	257.79	0.013983	2.94	1.89	3.21	1.00
Visano	5	Max WS	TR30 1H	6.89	256.45	257.47	257.49	258.00	0.013907	3.20	2.15	3.39	1.02
Visano	4.99			Lat Struct									
Visano	4.98			Lat Struct									
Visano	4	Max WS	TR200 2H	8.13	255.00	256.87	256.10	257.00	0.008726	1.60	5.07	8.58	0.67
Visano	4	Max WS	TR200 1H	9.91	255.00	257.03	256.25	257.14	0.006347	1.48	6.70	10.26	0.58
Visano	4	Max WS	TR30 2H	5.48	255.00	256.69	255.85	256.79	0.003775	1.40	3.90	5.18	0.48
Visano	4	Max WS	TR30 1H	7.41	255.00	256.79	256.03	256.93	0.009083	1.65	4.49	7.28	0.67
Visano	3.5			Bridge									
Visano	3	Max WS	TR200 2H	8.09	255.04	255.97	256.19	256.82	0.028437	4.08	1.98	3.09	1.40
Visano	3	Max WS	TR200 1H	9.89	255.04	256.03	256.60	257.13	0.033118	4.63	2.14	3.17	1.53
Visano	3	Max WS	TR30 2H	5.97	255.04	255.78	255.99	256.53	0.034748	3.84	1.55	2.84	1.49
Visano	3	Max WS	TR30 1H	7.41	255.04	255.87	256.12	256.77	0.035240	4.20	1.76	2.96	1.53
Visano	2.99			Lat Struct									
Visano	2.98			Lat Struct									
Visano	2	Max WS	TR200 2H	8.26	253.35	255.64		255.65	0.000371	0.54	15.36	14.75	0.17
Visano	2	Max WS	TR200 1H	9.87	253.35	255.66		255.68	0.000503	0.63	15.63	14.80	0.20
Visano	2	Max WS	TR30 2H	6.07	253.35	254.88		254.92	0.001109	0.86	7.08	7.41	0.28
Visano	2	Max WS	TR30 1H	7.48	253.35	254.94		254.99	0.001459	1.00	7.48	7.63	0.32
Visano	1.5			Culvert									
Visano	1	Max WS	TR200 2H	8.08	252.78	255.25	253.68	255.29	0.002148	0.92	8.82	11.24	0.33
Visano	1	Max WS	TR200 1H	9.27	252.78	255.10	253.76	255.18	0.002430	1.22	7.61	5.34	0.33
Visano	1	Max WS	TR30 2H	5.73	252.78	254.68	253.50	254.72	0.001308	0.95	6.03	3.34	0.23
Visano	1	Max WS	TR30 1H	6.22	252.78	254.47	253.54	254.54	0.002123	1.17	5.34	3.31	0.29
Visano	0.9	Max WS	TR200 2H	8.08	252.78	255.25	253.68	255.29	0.002149	0.92	8.82	11.23	0.33
Visano	0.9	Max WS	TR200 1H	9.27	252.78	255.10	253.76	255.17	0.002430	1.22	7.61	5.34	0.33
Visano	0.9	Max WS	TR30 2H	5.73	252.78	254.68	253.50	254.72	0.001308	0.95	6.03	3.34	0.23
Visano	0.9	Max WS	TR30 1H	6.22	252.78	254.47	253.54	254.54	0.002124	1.17	5.33	3.31	0.29

HEC-RAS River: Visano Reach: Visano Profile: Max WS

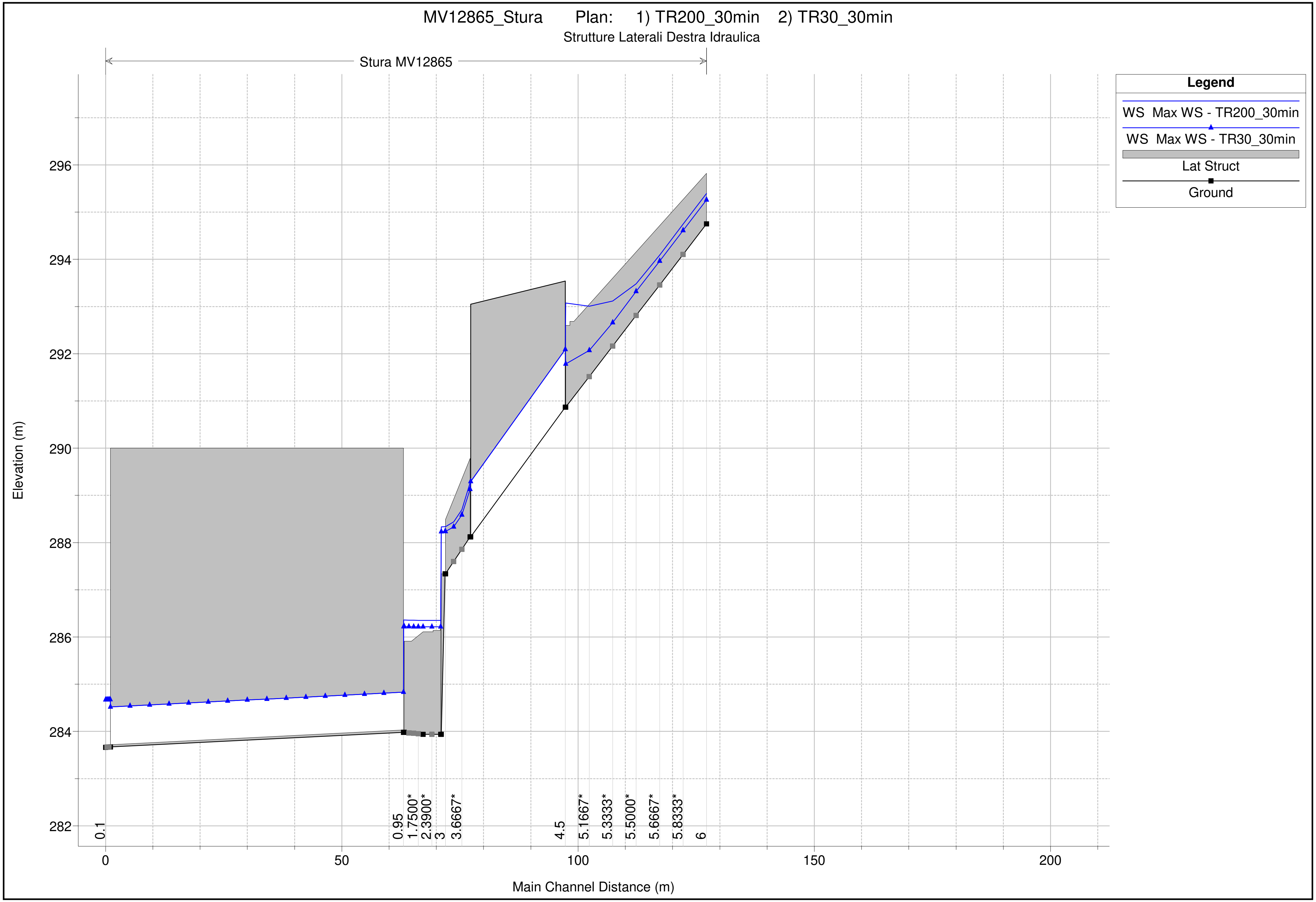
Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
Visano	28.899	Max WS	TR200 2H	1.00	0.00	2.57	0.00					275.38	281.83	281.64	273.27	273.17
Visano	28.899	Max WS	TR200 1H	1.00	0.00	3.03	0.00					275.38	281.83	281.64	273.35	273.24
Visano	28.899	Max WS	TR30 2H	1.00	0.00	2.09	0.00					275.38	281.83	281.64	273.18	273.10
Visano	28.899	Max WS	TR30 1H	1.00	0.00	2.42	0.00					275.38	281.83	281.64	273.24	273.15
Visano	28.898	Max WS	TR200 2H	1.00	-0.02	2.57	-0.02		1.76	0.23	0.11	275.32	281.83	281.64	273.27	273.17
Visano	28.898	Max WS	TR200 1H	1.00	-0.02	3.03	-0.02		1.76	0.23	0.11	275.32	281.83	281.64	273.35	273.24
Visano	28.898	Max WS	TR30 2H	1.00	-0.02	2.09	-0.02		1.76	0.23	0.11	275.32	281.83	281.64	273.18	273.10
Visano	28.898	Max WS	TR30 1H	1.00	-0.02	2.42	-0.02		1.76	0.23	0.11	275.32	281.83	281.64	273.24	273.15
Visano	24.99	Max WS	TR200 2H	2.57	0.00	3.04	0.00					273.18	273.12	272.88	271.16	271.02
Visano	24.99	Max WS	TR200 1H	3.04	0.00	3.65	0.00					273.18	273.19	272.93	271.27	271.12
Visano	24.99	Max WS	TR30 2H	2.09	0.00	2.42	0.00					273.18	273.04	272.83	271.05	270.93
Visano	24.99	Max WS	TR30 1H	2.42	0.00	2.85	0.00					273.18	273.10	272.87	271.13	271.00
Visano	24.98	Max WS	TR200 2H	2.57	0.00	3.04	0.00					273.46	273.12	272.88	271.16	271.02
Visano	24.98	Max WS	TR200 1H	3.04	0.00	3.65	0.00					273.46	273.19	272.93	271.27	271.12
Visano	24.98	Max WS	TR30 2H	2.09	0.00	2.42	0.00					273.46	273.04	272.83	271.05	270.93
Visano	24.98	Max WS	TR30 1H	2.42	0.00	2.85	0.00					273.46	273.10	272.87	271.13	271.00
Visano	21.99	Max WS	TR200 2H	3.04	0.00	3.10	0.00					273.04	271.09	270.99	271.05	270.93
Visano	21.99	Max WS	TR200 1H	3.65	0.00	3.72	0.00					273.04	271.20	271.09	271.15	271.01
Visano	21.99	Max WS	TR30 2H	2.42	0.00	2.46	0.00					273.04	271.00	270.92	270.95	270.84
Visano	21.99	Max WS	TR30 1H	2.85	0.00	2.90	0.00					273.04	271.07	270.98	271.02	270.90
Visano	21.98	Max WS	TR200 2H	3.04	0.00	3.10	0.00					273.36	271.09	270.99	271.05	270.93
Visano	21.98	Max WS	TR200 1H	3.65	0.00	3.72	0.00					273.36	271.20	271.09	271.15	271.01
Visano	21.98	Max WS	TR30 2H	2.42	0.00	2.46	0.00					273.36	271.00	270.92	270.95	270.84
Visano	21.98	Max WS	TR30 1H	2.85	0.00	2.90	0.00					273.36	271.07	270.98	271.02	270.90
Visano	19.99	Max WS	TR200 2H	3.10	0.00	4.72	0.00		3.29	0.10	0.02	267.94	270.96	270.53	267.42	267.34
Visano	19.99	Max WS	TR200 1H	3.72	0.00	5.81	0.00		3.29	0.10	0.02	267.94	271.05	270.57	267.57	267.48
Visano	19.99	Max WS	TR30 2H	2.46	0.00	3.59	0.00		3.29	0.10	0.02	267.94	270.85	270.48	267.23	267.16
Visano	19.99	Max WS	TR30 1H	2.90	0.00	4.37	0.00		3.29	0.10	0.02	267.94	270.93	270.51	267.36	267.29
Visano	19.98	Max WS	TR200 2H	3.10	0.00	4.72	0.00					267.91	270.96	270.53	267.42	267.34
Visano	19.98	Max WS	TR200 1H	3.72	0.00	5.81	0.00					267.91	271.05	270.57	267.57	267.48
Visano	19.98	Max WS	TR30 2H	2.46	0.00	3.59	0.00					267.91	270.85	270.48	267.23	267.16
Visano	19.98	Max WS	TR30 1H	2.90	0.00	4.37	0.00					267.91	270.93	270.51	267.36	267.29
Visano	13.99	Max WS	TR200 2H	4.72	0.00	4.95	0.00					267.34	266.30	266.07	265.70	265.65
Visano	13.99	Max WS	TR200 1H	5.81	0.00	6.10	0.00					267.34	266.40	266.14	265.81	265.74
Visano	13.99	Max WS	TR30 2H	3.59	0.00	3.75	0.00					267.34	266.18	265.98	265.58	265.54
Visano	13.99	Max WS	TR30 1H	4.37	0.00	4.57	0.00					267.34	266.27	266.04	265.67	265.62
Visano	13.98	Max WS	TR200 2H	4.72	0.00	4.95	0.00					267.11	266.30	266.07	265.70	265.65
Visano	13.98	Max WS	TR200 1H	5.81	0.00	6.10	0.00					267.11	266.40	266.14	265.81	265.74
Visano	13.98	Max WS	TR30 2H	3.59	0.00	3.75	0.00					267.11	266.18	265.98	265.58	265.54
Visano	13.98	Max WS	TR30 1H	4.37	0.00	4.57	0.00					267.11	266.27	266.04	265.67	265.62
Visano	11.99	Max WS	TR200 2H	4.95	0.00	5.75	0.00					265.27	265.62	265.53	264.79	264.61
Visano	11.99	Max WS	TR200 1H	6.10	0.00	7.09	0.00					265.27	265.72	265.61	265.11	264.93
Visano	11.99	Max WS	TR30 2H	3.75	0.00	4.31	0.00					265.27	265.51	265.45	264.50	264.36
Visano	11.99	Max WS	TR30 1H	4.57	0.00	5.29	0.00					265.27	265.59	265.51	264.70	264.53
Visano	11.98	Max WS	TR200 2H	4.95	-0.08	5.75	-0.08		5.26	0.43	0.11	265.30	265.62	265.53	264.79	264.61
Visano	11.98	Max WS	TR200 1H	6.10	-0.08	7.09	-0.08		5.26	0.43	0.11	265.30	265.72	265.61	265.11	264.93
Visano	11.98	Max WS	TR30 2H	3.75	-0.08	4.31	-0.08		5.26	0.43	0.11	265.30	265.51	265.45	264.50	264.36
Visano	11.98	Max WS	TR30 1H	4.57	-0.08	5.29	-0.08		5.26	0.43	0.11	265.30	265.59	265.51	264.70	264.53
Visano	8.99	Max WS	TR200 2H	5.75	0.00	6.93	0.00					260.25	264.43	263.63	260.27	260.14
Visano	8.99	Max WS	TR200 1H	7.09	-0.07	8.37	-0.07		12.12	0.45	0.18	260.25	264.68	263.71	260.62	260.54
Visano	8.99	Max WS	TR30 2H	4.31	0.00	5.13	0.00					260.25	264.15	263.53	260.03	259.93
Visano	8.99	Max WS	TR30 1H	5.29	0.00	6.34	0.00					260.25	264.34	263.60	260.18	260.05
Visano	8.98	Max WS	TR200 2H	5.75	0.00	6.93	0.00					260.55	264.43	263.63	260.27	260.14
Visano	8.98	Max WS	TR200 1H	7.09	0.00	8.37	0.00					260.55	264.68	263.71	260.62	260.54
Visano	8.98	Max WS	TR30 2H	4.31	0.00	5.13	0.00					260.55	264.15	263.53	260.03	259.93
Visano	8.98	Max WS	TR30 1H	5.29	0.00	6.34	0.00					260.55	264.34	263.60	260.18	260.05
Visano	6.99	Max WS	TR200 2H	6.93	0.00	7.54	0.00					258.69	259.98	259.30	258.39	258.18
Visano	6.99	Max WS	TR200 1H	8.37	-0.16	9.21	-0.16		14.37	0.16	0.11	258.69	260.18	259.39	258.79	258.60
Visano	6.99	Max WS	TR30 2H	5.13	0.00	5.56	0.00					258.69	259.71	259.18	258.05	257.88
Visano	6.99	Max WS	TR30 1H	6.34	0.00	6.89	0.00					258.69	259.90	259.26	258.29	258.09
Visano	6.98	Max WS	TR200 2H	6.93	0.00	7.54	0.00					258.36	259.98	259.30	258.39	258.18
Visano	6.98	Max WS	TR200 1H	8.37	-0.05	9.21	-0.05		22.50	0.35	0.21	258.36	260.18	259.39	258.79	258.60
Visano	6.98	Max WS	TR30 2H	5.13	0.00	5.56	0.00					258.36	259.71	259.18	258.05	257.88
Visano	6.98	Max WS	TR30 1H	6.34	0.00	6.89	0.00					258.36	259.90	259.26	258.29	258.09
Visano	4.99	Max WS	TR200 2H	7.54	0.00	8.13	0.00		1.32	0.00	0.00	256.91	258.09	257.55	257.00	256.87
Visano	4.99	Max WS	TR200 1H	9.21	0.00	9.91	0.00		23.60	0.13	0.10	256.91	258.33	257.67	257.14	257.03
Visano	4.99	Max WS	TR30 2H	5.56	0.00	5.48	0.00		1.32	0.00	0.00	256.91	257.79	257.35	256.79	256.69
Visano	4.99	Max WS	TR30 1H	6.89	0.00	7.41	0.00		1.32	0.00	0.00	256.91	258.00	257.47	256.93	256.79
Visano	4.98	Max WS	TR200 2H	7.54	0.00	8.13	0.00		0.16	0.18	0.09	256.96	258.09	257.55	257.00	256.87
Visano	4.98	Max WS	TR200 1H	9.21	-0.32	9.91	-0.32		20.21	0.25	0.14	256.96	258.33	257.67	257.14	257.03
Visano	4.98	Max WS	TR30 2H	5.56	0.00	5.48	0.00		0.16	0.18	0.09	256.96	257.79	257.35	256.79	256.69
Visano	4.98	Max WS	TR30 1H	6.89	0.00	7.41	0.00		0.16	0.18	0.09	256.96	258.00	257.47	256.93	256.79
Visano	2.99	Max WS	TR200 2H	8.09	0.00	8.26	0.00					256.40	256.82	255.97	255.65	255.64
Visano	2.99	Max WS	TR200 1H	9.89	0.00	9.87	0.00					256.40	257.13	256.03	255.68	255.66
Visano	2.99	Max WS	TR30 2H	5.97	0.00	6.07	0.00					256.40	256.53	255.78	254.92	254.88
Visano	2.99	Max WS	TR30 1H	7.41	0.00	7.48	0.00					256.40	256.77	255.87	254.99	254.94
Visano	2.98	Max WS	TR200 2H	8.09	0.01	8.26	0.01		3.38	0.08	0.04	255.56	256.82	255.97	255.65	255.64
Visano	2.98	Max WS	TR200 1H	9.89	0.01	9.87	0.01		4.01	0.10	0.05	255.56	257.13	256.03	255.68	255.66
Visano	2.98	Max WS	TR30 2H	5.97	0.00	6.07	0.00					255.56	256.53	255.78	254.92	254.88
Visano	2.98	Max WS	TR30 1H	7.41	0.00	7.48	0.00					255.56	256.77	255.87	254.99	254.94

Fosso

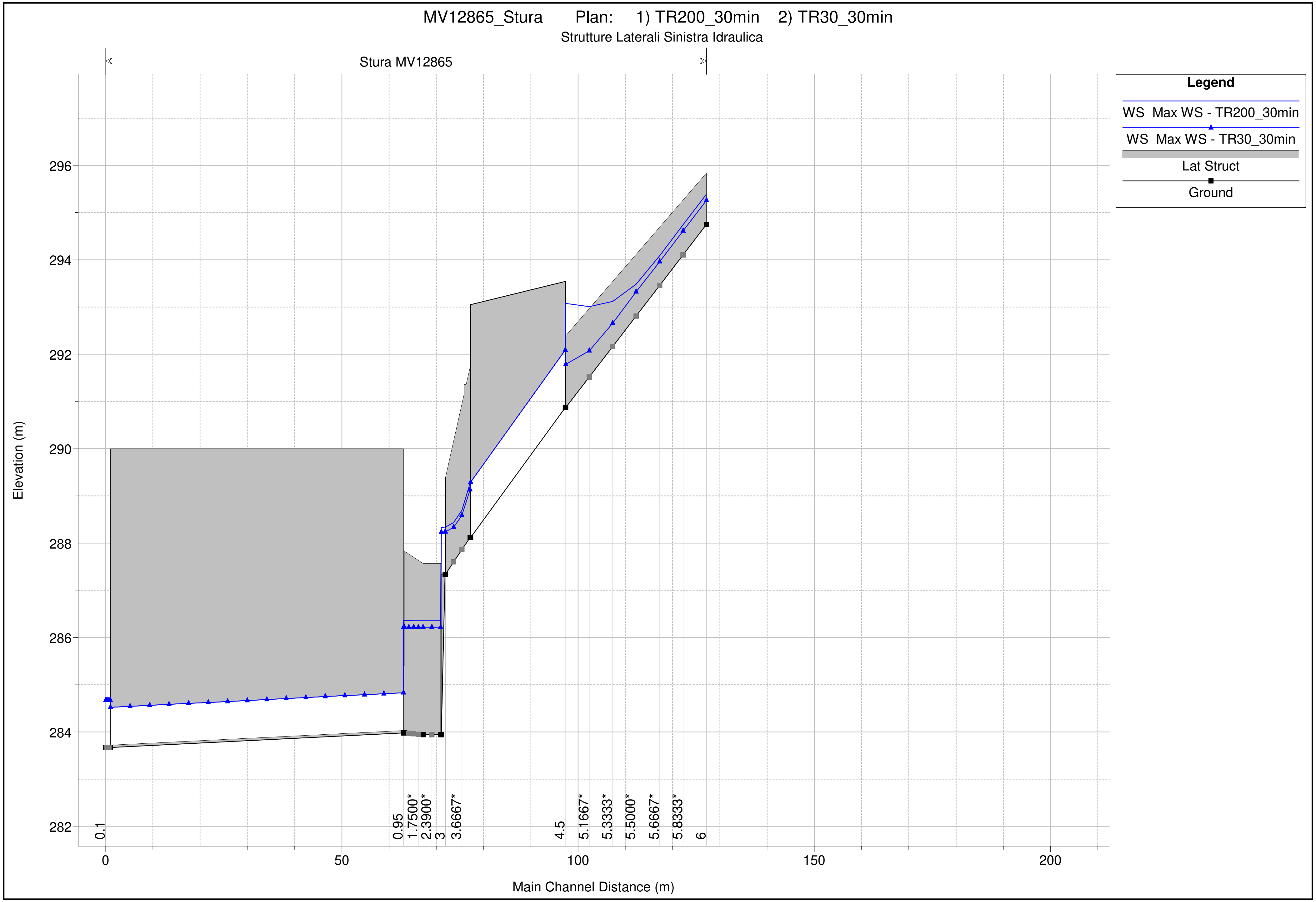
MV15982



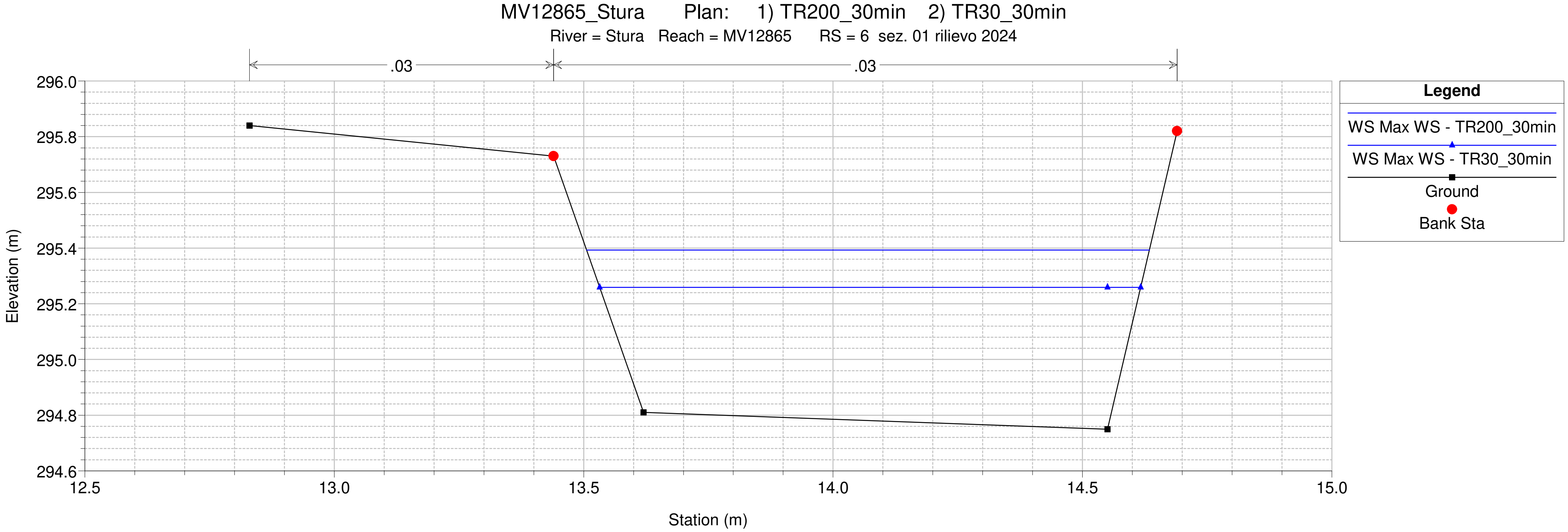
A_dx
6
5.5000*
N5/12865
34
uscita_dx
0.9
uscita_sx1
uscita_sx2
A_sx



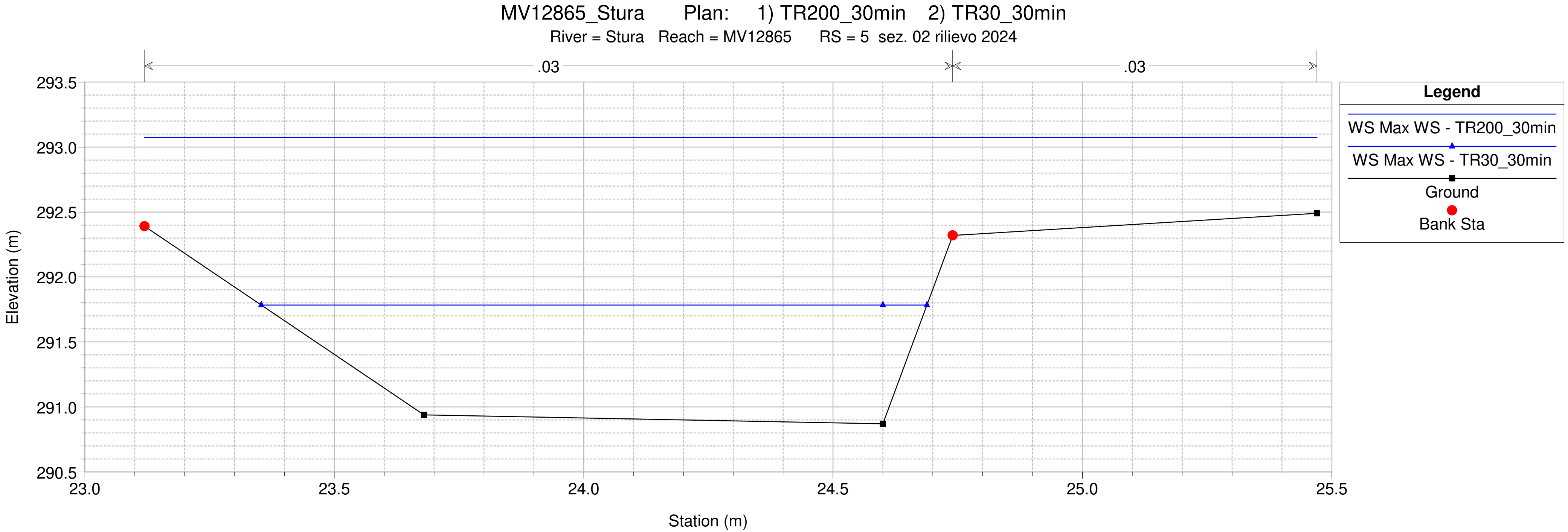
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



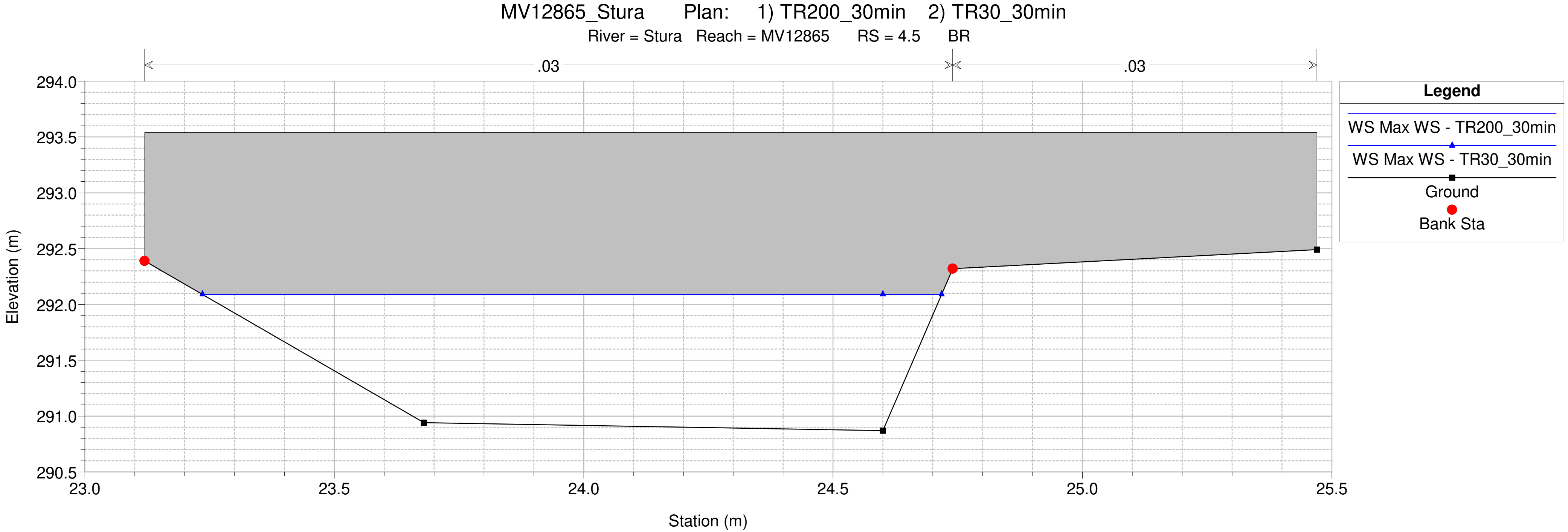
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



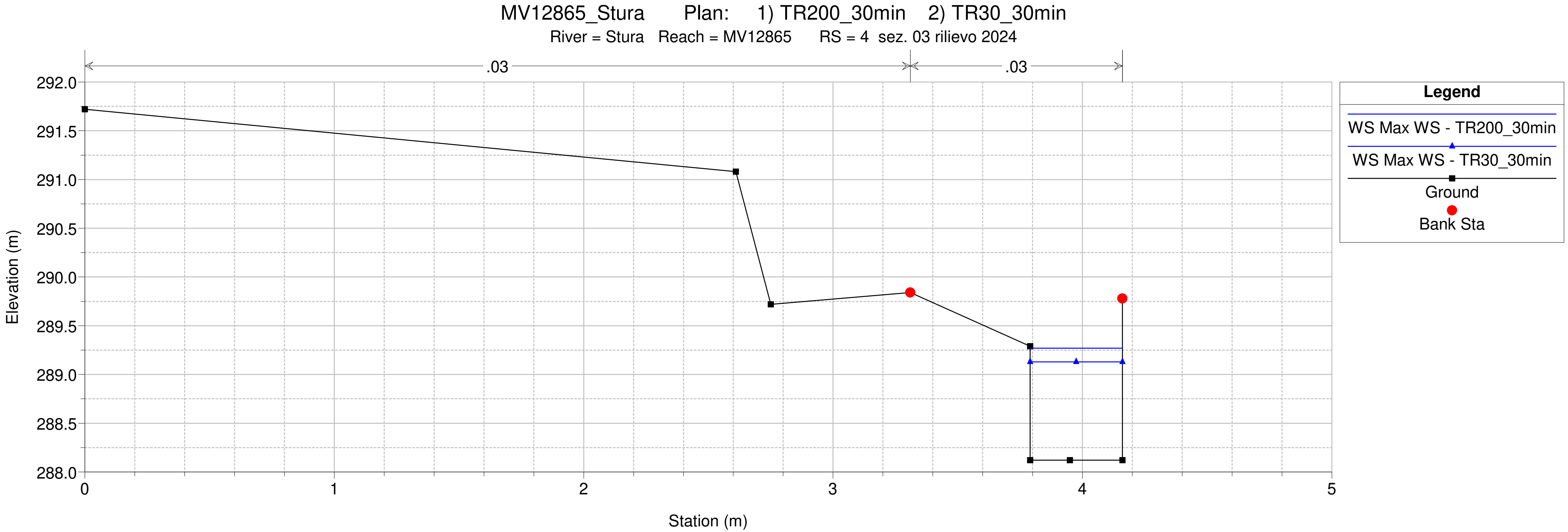
MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 6 sez. 01 rilievo 2024
.03
.03
Elevation (m)
296.0
295.8
295.6
295.4
295.2
295.0
294.8
294.6
12.5
13.0
13.5
14.0
14.5
15.0
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



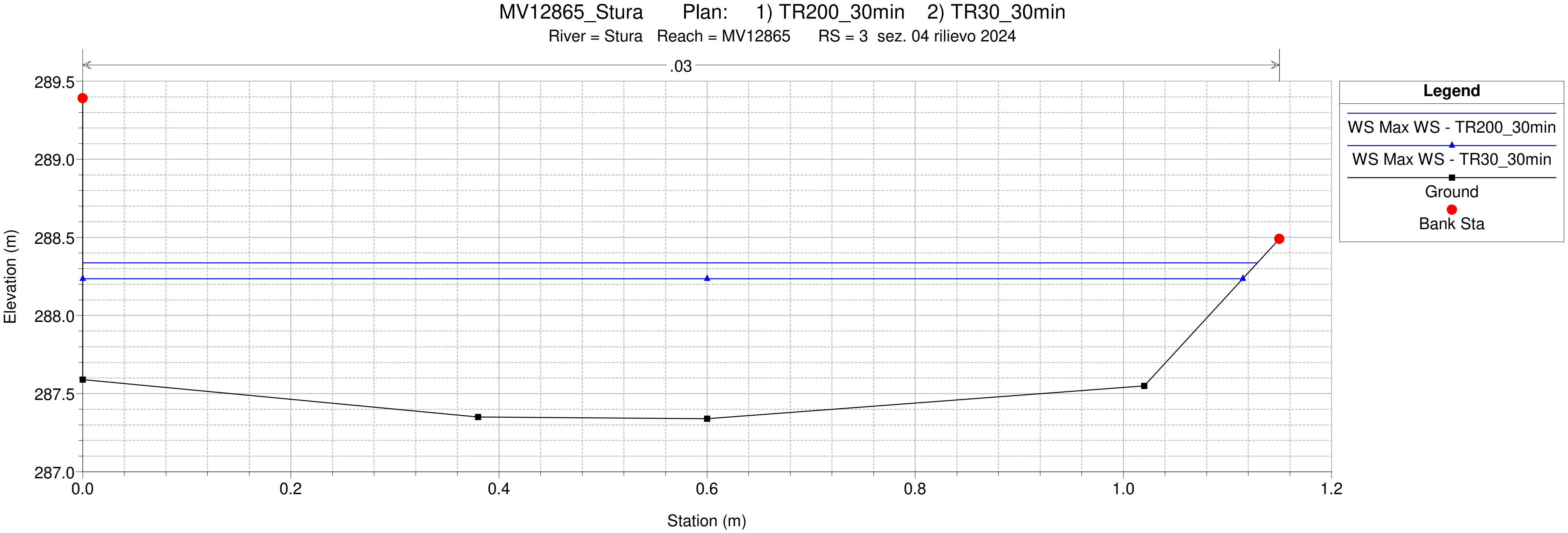
MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 5 sez. 02 rilievo 2024
.03
.03
Elevation (m)
293.5
293.0
292.5
292.0
291.5
291.0
290.5
23.0
23.5
24.0
24.5
25.0
25.5
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

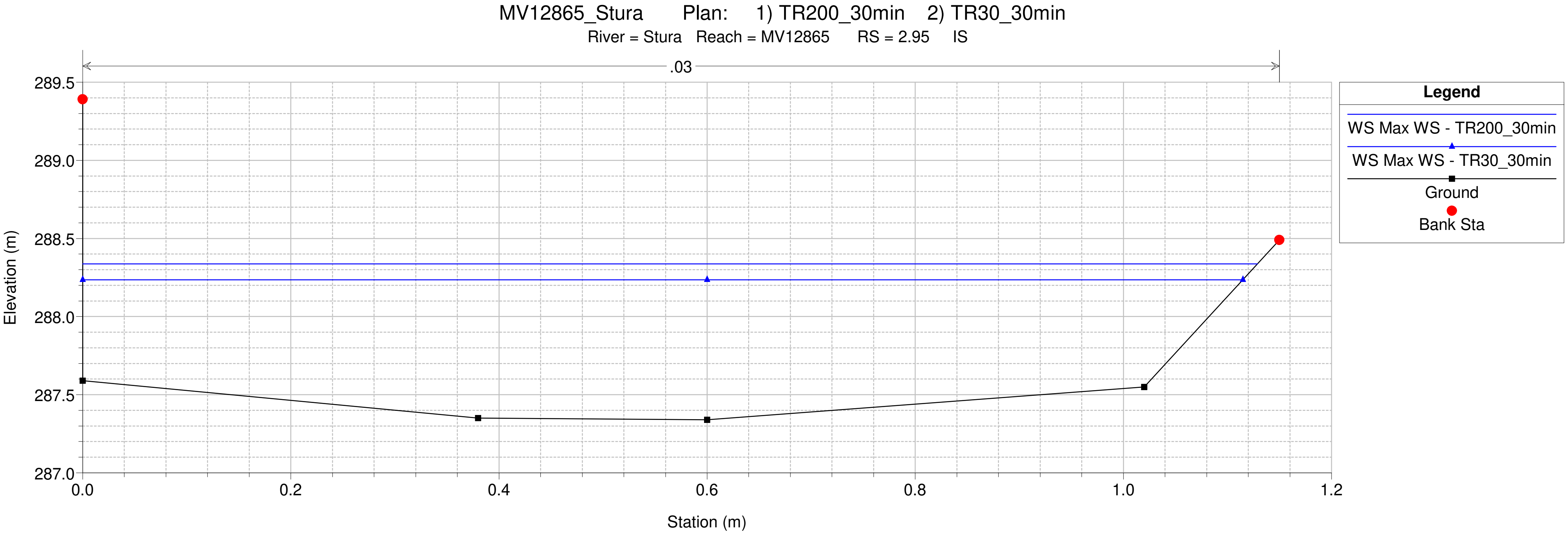


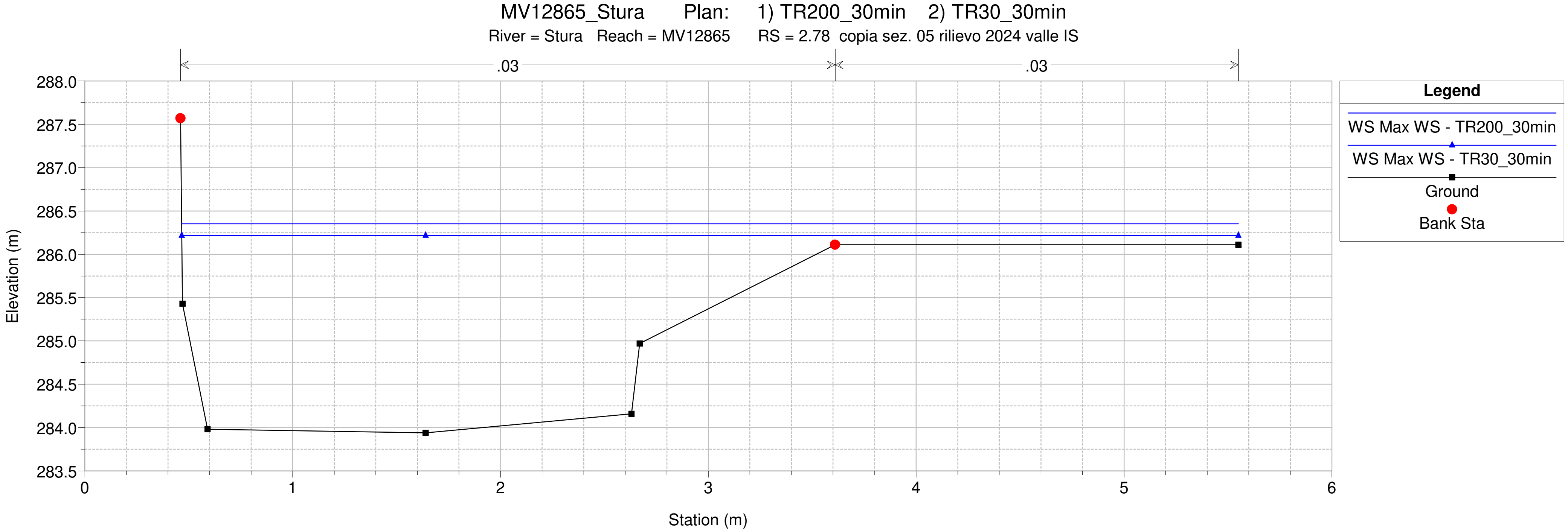
MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 4.5 BR
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



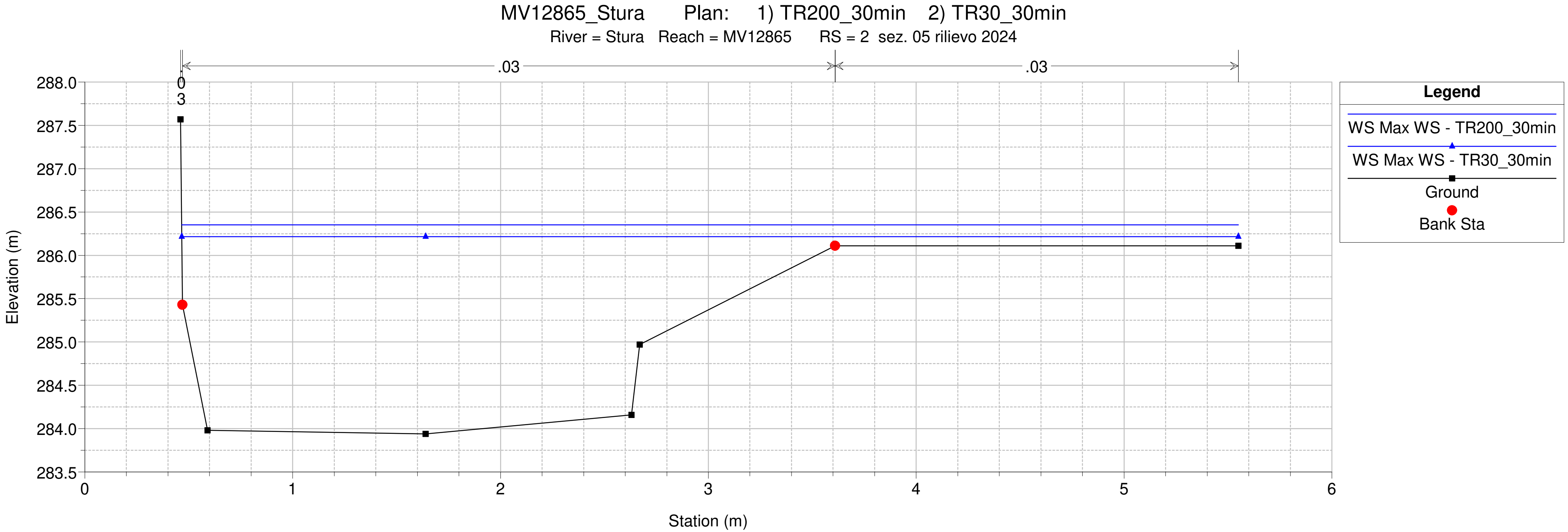
MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 4 sez. 03 rilievo 2024
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 3 sez. 04 rilievo 2024
.03
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

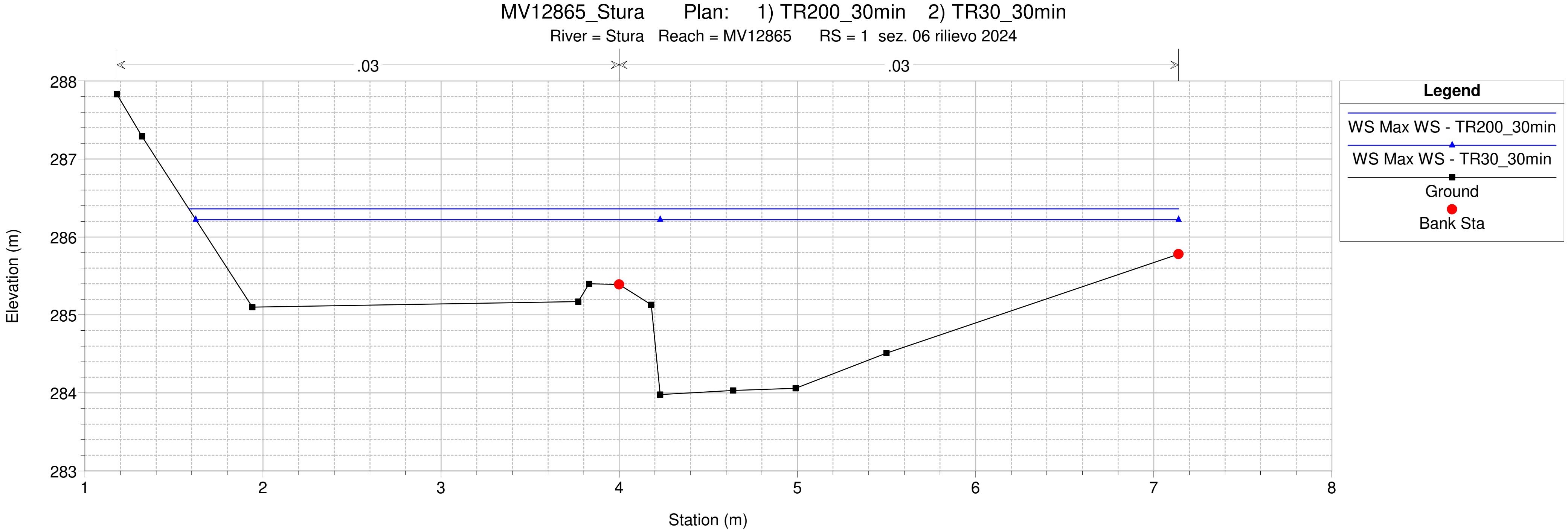

MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 2.95 IS
.03
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

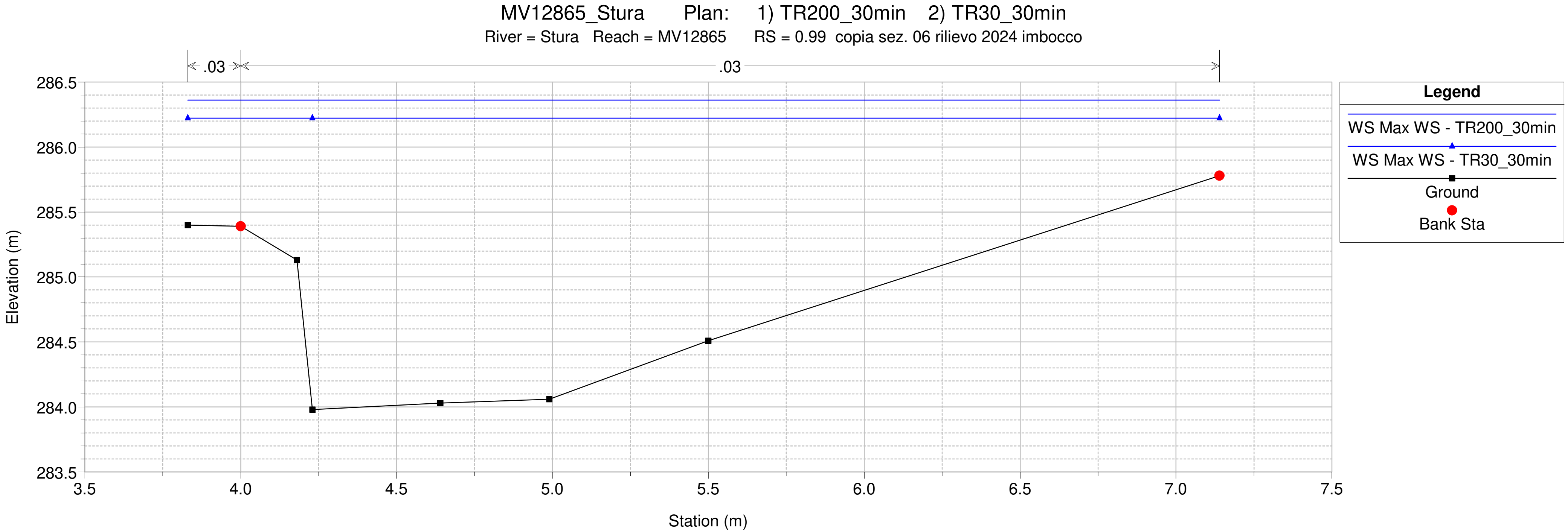


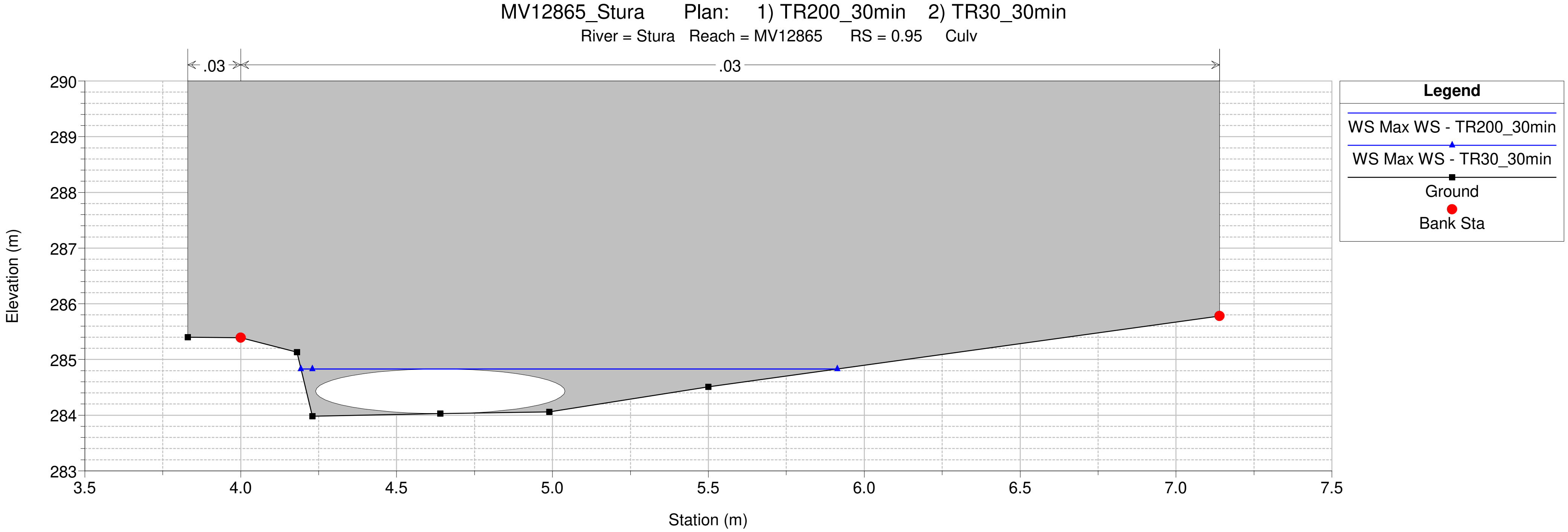
MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 2.78 copia sez. 05 rilievo 2024 valle IS
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

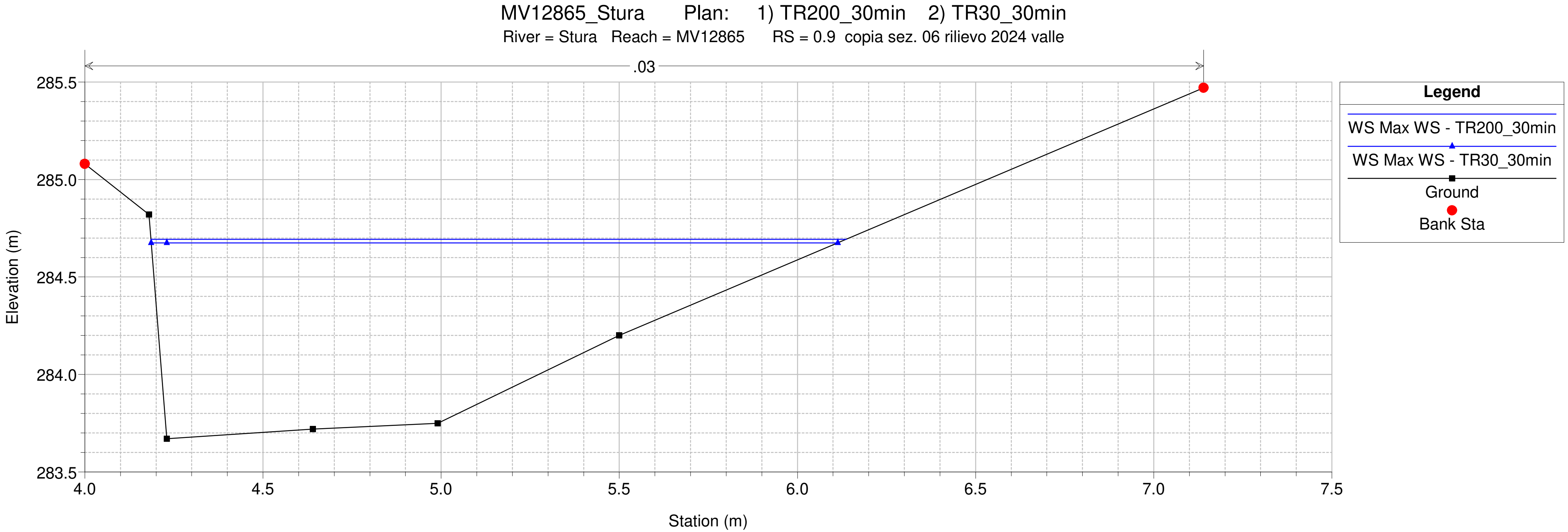


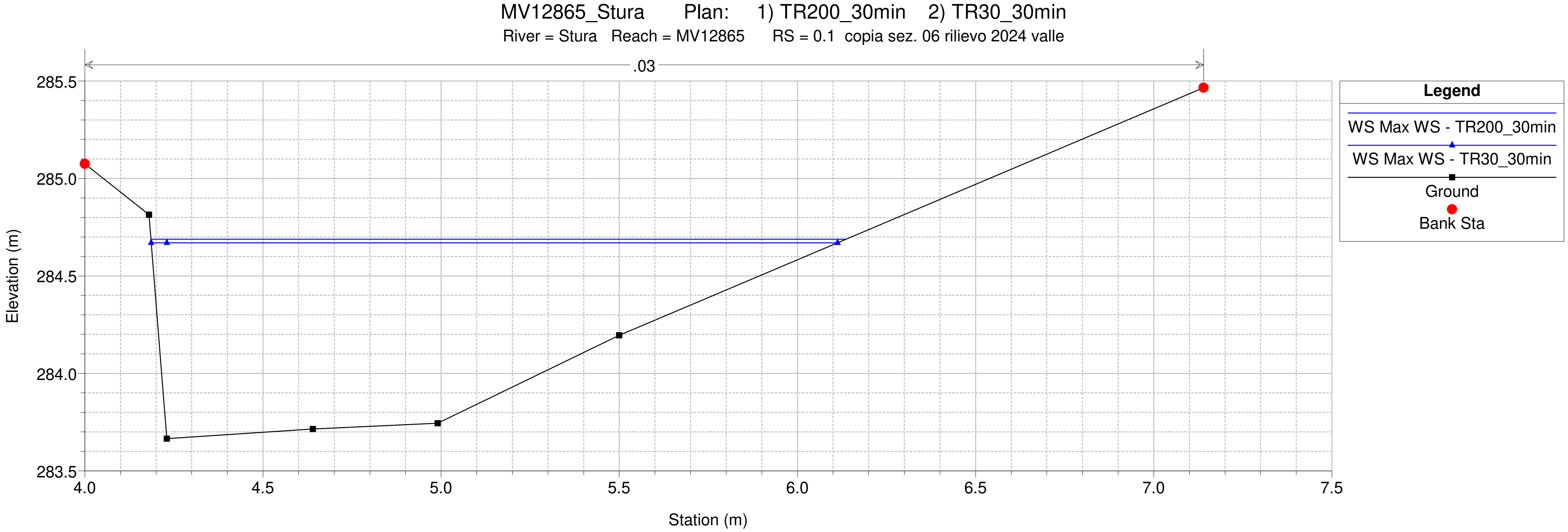
MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 2 sez. 05 rilievo 2024
.03
.03
0
3
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 1 sez. 06 rilievo 2024
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 0.99 copia sez. 06 rilievo 2024 imbocco
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 0.95 Culv
.03
.03
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)
290
289
288
287
286
285
284
283
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5


MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 0.9 copia sez. 06 rilievo 2024 valle
.03
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)
285.5
285.0
284.5
284.0
283.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5



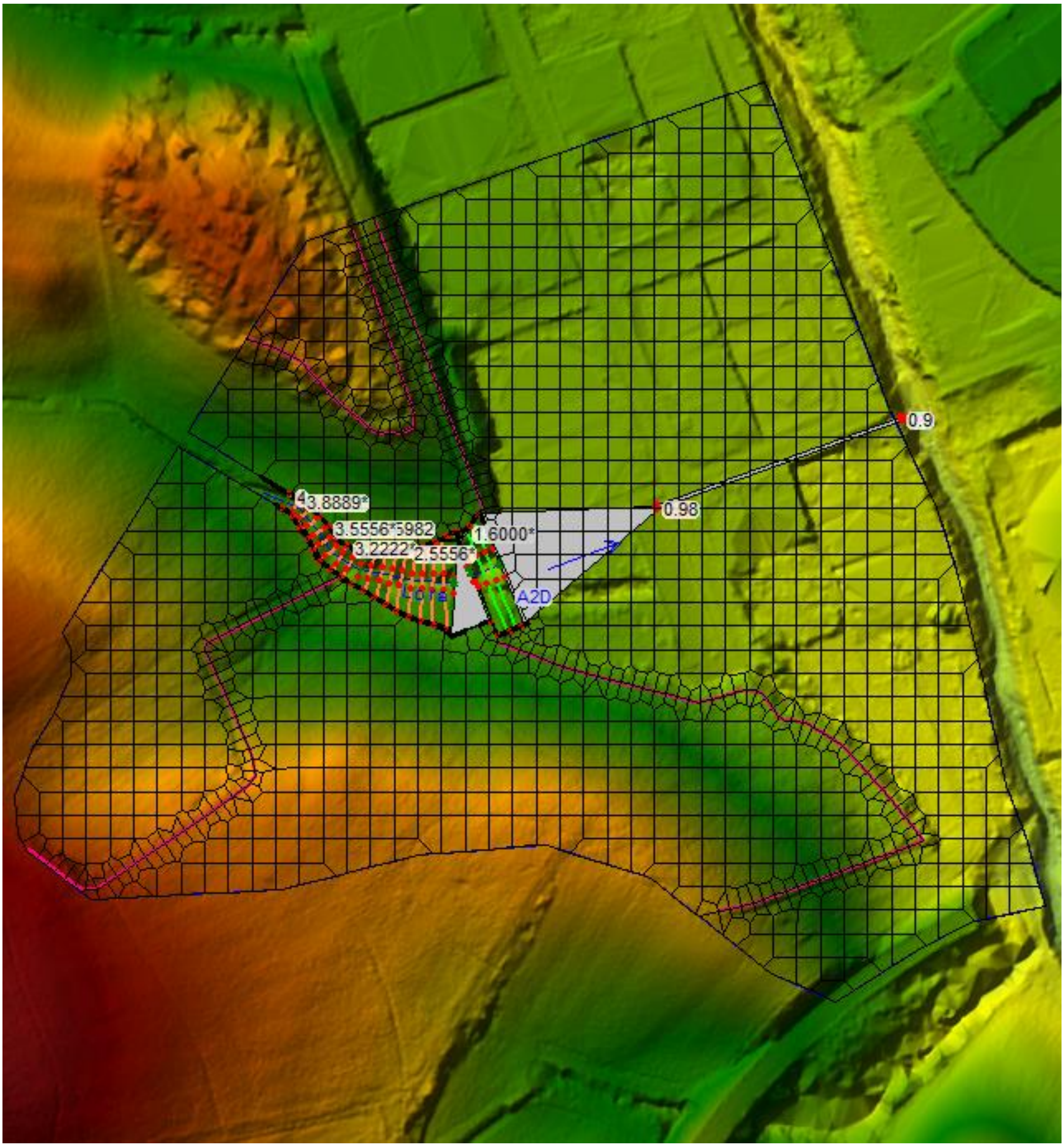
MV12865_Stura Plan: 1) TR200_30min 2) TR30_30min
River = Stura Reach = MV12865 RS = 0.1 copia sez. 06 rilievo 2024 valle
.03
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
285.5
285.0
284.5
284.0
283.5
Station (m)
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5

HEC-RAS River: Stura Reach: MV12865 Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV12865	6	Max WS	TR200_30min	3.34	294.75	295.39	295.88	296.82	0.131493	5.30	0.63	1.13	2.26
MV12865	6	Max WS	TR200_1h	2.85	294.75	295.33	295.71	296.65	0.130922	5.08	0.56	1.11	2.28
MV12865	6	Max WS	TR200_2h	2.02	294.75	295.21	295.53	296.32	0.130782	4.65	0.43	1.07	2.33
MV12865	6	Max WS	TR30_30min	2.33	294.75	295.26	295.60	296.45	0.130956	4.83	0.48	1.08	2.31
MV12865	6	Max WS	TR30_1h	2.02	294.75	295.21	295.53	296.32	0.130782	4.65	0.43	1.07	2.33
MV12865	6	Max WS	TR30_2h	1.44	294.75	295.13	295.38	296.04	0.130557	4.23	0.34	1.04	2.37
MV12865	5.99			Lat Struct									
MV12865	5.98			Lat Struct									
MV12865	5	Max WS	TR200_30min	2.80	290.87	293.07	291.81	293.11	0.001136	0.84	3.48	2.35	0.20
MV12865	5	Max WS	TR200_1h	2.79	290.87	292.70	291.81	292.77	0.002384	1.11	2.61	2.35	0.29
MV12865	5	Max WS	TR200_2h	2.02	290.87	291.70	291.64	291.97	0.020309	2.31	0.87	1.29	0.90
MV12865	5	Max WS	TR30_30min	2.33	290.87	291.79	291.71	292.07	0.019564	2.36	0.99	1.33	0.88
MV12865	5	Max WS	TR30_1h	2.02	290.87	291.70	291.64	291.97	0.020310	2.31	0.87	1.29	0.90
MV12865	5	Max WS	TR30_2h	1.44	290.87	291.54	291.50	291.77	0.019992	2.12	0.68	1.22	0.91
MV12865	4.5			Bridge									
MV12865	4	Max WS	TR200_30min	2.80	288.12	289.27	290.02	291.47	0.449992	6.57	0.43	0.37	1.96
MV12865	4	Max WS	TR200_1h	2.79	288.12	289.27	290.02	291.47	0.449654	6.57	0.42	0.37	1.96
MV12865	4	Max WS	TR200_2h	2.02	288.12	289.03	289.87	290.86	0.393078	6.00	0.34	0.37	2.01
MV12865	4	Max WS	TR30_30min	2.33	288.12	289.13	289.94	291.12	0.416742	6.24	0.37	0.37	1.99
MV12865	4	Max WS	TR30_1h	2.02	288.12	289.03	289.87	290.86	0.393078	6.00	0.34	0.37	2.01
MV12865	4	Max WS	TR30_2h	1.44	288.12	288.84	289.27	290.34	0.343329	5.44	0.26	0.37	2.05
MV12865	3.99			Lat Struct									
MV12865	3.98			Lat Struct									
MV12865	3	Max WS	TR200_30min	2.79	287.34	288.34	288.33	288.76	0.029278	2.89	0.97	1.13	1.00
MV12865	3	Max WS	TR200_1h	2.79	287.34	288.34	288.33	288.76	0.029371	2.89	0.96	1.13	1.00
MV12865	3	Max WS	TR200_2h	2.02	287.34	288.17	288.16	288.51	0.026688	2.61	0.77	1.11	0.99
MV12865	3	Max WS	TR30_30min	2.33	287.34	288.24	288.23	288.62	0.027898	2.73	0.85	1.11	1.00
MV12865	3	Max WS	TR30_1h	2.02	287.34	288.16	288.16	288.51	0.026884	2.61	0.77	1.10	1.00
MV12865	3	Max WS	TR30_2h	1.44	287.34	288.02	288.02	288.30	0.024695	2.35	0.61	1.08	1.00
MV12865	2.95			Inl Struct									
MV12865	2.78	Max WS	TR200_30min	2.80	283.94	286.35		286.36	0.000237	0.47	6.29	5.08	0.11
MV12865	2.78	Max WS	TR200_1h	2.79	283.94	286.34		286.35	0.000242	0.47	6.23	5.08	0.11
MV12865	2.78	Max WS	TR200_2h	2.02	283.94	286.11		286.12	0.000200	0.40	5.07	5.08	0.10
MV12865	2.78	Max WS	TR30_30min	2.33	283.94	286.22		286.23	0.000215	0.43	5.60	5.08	0.10
MV12865	2.78	Max WS	TR30_1h	2.02	283.94	286.11		286.12	0.000200	0.40	5.07	5.08	0.10
MV12865	2.78	Max WS	TR30_2h	1.44	283.94	285.70		285.71	0.000205	0.37	3.85	2.81	0.10
MV12865	2.77			Lat Struct									
MV12865	2.76			Lat Struct									
MV12865	2	Max WS	TR200_30min	2.61	283.94	286.35		286.36	0.000169	0.43	6.30	5.08	0.10
MV12865	2	Max WS	TR200_1h	2.61	283.94	286.34		286.35	0.000174	0.44	6.23	5.08	0.10
MV12865	2	Max WS	TR200_2h	2.02	283.94	286.11		286.12	0.000172	0.40	5.06	3.14	0.10
MV12865	2	Max WS	TR30_30min	2.28	283.94	286.22		286.22	0.000174	0.42	5.60	5.08	0.10
MV12865	2	Max WS	TR30_1h	2.02	283.94	286.11		286.12	0.000172	0.40	5.06	3.14	0.10
MV12865	2	Max WS	TR30_2h	1.44	283.94	285.70		285.71	0.000192	0.37	3.85	2.81	0.10
MV12865	1	Max WS	TR200_30min	2.27	283.98	286.36		286.36	0.000092	0.30	7.80	5.56	0.08
MV12865	1	Max WS	TR200_1h	2.25	283.98	286.35		286.35	0.000093	0.30	7.74	5.55	0.08
MV12865	1	Max WS	TR200_2h	1.93	283.98	286.11		286.12	0.000117	0.31	6.44	5.49	0.09
MV12865	1	Max WS	TR30_30min	2.07	283.98	286.22		286.23	0.000104	0.31	7.04	5.52	0.08
MV12865	1	Max WS	TR30_1h	1.93	283.98	286.11		286.12	0.000117	0.31	6.44	5.49	0.09
MV12865	1	Max WS	TR30_2h	1.44	283.98	285.70		285.71	0.000225	0.37	4.22	5.27	0.12
MV12865	0.99	Max WS	TR200_30min	1.64	283.98	286.36		286.37	0.000101	0.32	5.28	3.31	0.08
MV12865	0.99	Max WS	TR200_1h	1.63	283.98	286.35		286.35	0.000103	0.32	5.24	3.31	0.08
MV12865	0.99	Max WS	TR200_2h	1.53	283.98	286.11		286.12	0.000143	0.35	4.46	3.31	0.09
MV12865	0.99	Max WS	TR30_30min	1.58	283.98	286.22		286.23	0.000122	0.33	4.82	3.31	0.09
MV12865	0.99	Max WS	TR30_1h	1.53	283.98	286.11		286.12	0.000143	0.35	4.46	3.31	0.09
MV12865	0.99	Max WS	TR30_2h	1.33	283.98	285.70		285.71	0.000316	0.43	3.10	3.21	0.14
MV12865	0.95			Culvert									
MV12865	0.9	Max WS	TR200_30min	1.64	283.67	284.69		284.78	0.005005	1.27	1.29	1.95	0.50
MV12865	0.9	Max WS	TR200_1h	1.63	283.67	284.69		284.77	0.005001	1.27	1.29	1.95	0.50
MV12865	0.9	Max WS	TR200_2h	1.53	283.67	284.66		284.74	0.005007	1.25	1.22	1.91	0.50
MV12865	0.9	Max WS	TR30_30min	1.58	283.67	284.67		284.76	0.005007	1.26	1.25	1.93	0.50
MV12865	0.9	Max WS	TR30_1h	1.53	283.67	284.66		284.74	0.005007	1.25	1.22	1.91	0.50
MV12865	0.9	Max WS	TR30_2h	1.33	283.67	284.59		284.67	0.005008	1.21	1.10	1.82	0.50
MV12865	0.1	Max WS	TR200_30min	1.64	283.66	284.69	284.37	284.77	0.005000	1.27	1.29	1.95	0.50
MV12865	0.1	Max WS	TR200_1h	1.63	283.66	284.69	284.37	284.77	0.005003	1.27	1.29	1.95	0.50
MV12865	0.1	Max WS	TR200_2h	1.53	283.66	284.65	284.35	284.73	0.005010	1.25	1.22	1.90	0.50
MV12865	0.1	Max WS	TR30_30min	1.58	283.66	284.67	284.36	284.75	0.005008	1.26	1.25	1.93	0.50
MV12865	0.1	Max WS	TR30_1h	1.53	283.66	284.65	284.35	284.73	0.005009	1.25	1.22	1.90	0.50
MV12865	0.1	Max WS	TR30_2h	1.33	283.66	284.59	284.30	284.66	0.005003	1.21	1.10	1.82	0.49

HEC-RAS River: Stura Reach: MV12865 Profile: Max WS

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
MV12865	5.99	Max WS	TR200_30min	3.34	0.21	2.80	0.21		4.69	0.47	0.27	292.60	296.82	295.39	293.11	293.07
MV12865	5.99	Max WS	TR200_1h	2.85	0.01	2.79	0.01		1.84	0.10	0.05	292.60	296.65	295.33	292.77	292.70
MV12865	5.99	Max WS	TR200_2h	2.02	0.00	2.02	0.00					292.60	296.32	295.21	291.97	291.70
MV12865	5.99	Max WS	TR30_30min	2.33	0.00	2.33	0.00					292.60	296.45	295.26	292.07	291.79
MV12865	5.99	Max WS	TR30_1h	2.02	0.00	2.02	0.00					292.60	296.32	295.21	291.97	291.70
MV12865	5.99	Max WS	TR30_2h	1.44	0.00	1.44	0.00					292.60	296.04	295.12	291.77	291.54
MV12865	5.98	Max WS	TR200_30min	3.34	0.34	2.80	0.34		5.41	0.68	0.33	292.39	296.82	295.39	293.11	293.07
MV12865	5.98	Max WS	TR200_1h	2.85	0.05	2.79	0.05		2.54	0.31	0.16	292.39	296.65	295.33	292.77	292.70
MV12865	5.98	Max WS	TR200_2h	2.02	0.00	2.02	0.00					292.39	296.32	295.21	291.97	291.70
MV12865	5.98	Max WS	TR30_30min	2.33	0.00	2.33	0.00					292.39	296.45	295.26	292.07	291.79
MV12865	5.98	Max WS	TR30_1h	2.02	0.00	2.02	0.00					292.39	296.32	295.21	291.97	291.70
MV12865	5.98	Max WS	TR30_2h	1.44	0.00	1.44	0.00					292.39	296.04	295.12	291.77	291.54
MV12865	3.99	Max WS	TR200_30min	2.80	0.00	2.79	0.00					288.49	291.46	289.27	288.77	288.34
MV12865	3.99	Max WS	TR200_1h	2.79	0.00	2.79	0.00					288.49	291.46	289.26	288.76	288.34
MV12865	3.99	Max WS	TR200_2h	2.02	0.00	2.02	0.00					288.49	290.86	289.03	288.51	288.17
MV12865	3.99	Max WS	TR30_30min	2.33	0.00	2.33	0.00					288.49	291.11	289.12	288.62	288.24
MV12865	3.99	Max WS	TR30_1h	2.02	0.00	2.02	0.00					288.49	290.86	289.03	288.52	288.16
MV12865	3.99	Max WS	TR30_2h	1.44	0.00	1.44	0.00					288.49	290.34	288.83	288.30	288.02
MV12865	3.98	Max WS	TR200_30min	2.80	-0.05	2.79	-0.05		1.33	0.37	0.25	289.39	291.47	289.27	288.77	288.34
MV12865	3.98	Max WS	TR200_1h	2.79	-0.03	2.79	-0.03		1.07	0.25	0.18	289.39	291.46	289.26	288.76	288.34
MV12865	3.98	Max WS	TR200_2h	2.02	0.00	2.02	0.00					289.39	290.86	289.03	288.51	288.17
MV12865	3.98	Max WS	TR30_30min	2.33	0.00	2.33	0.00					289.39	291.11	289.13	288.62	288.24
MV12865	3.98	Max WS	TR30_1h	2.02	0.00	2.02	0.00					289.39	290.86	289.03	288.52	288.16
MV12865	3.98	Max WS	TR30_2h	1.44	0.00	1.44	0.00					289.39	290.34	288.83	288.30	288.02
MV12865	2.77	Max WS	TR200_30min	2.80	0.55	2.27	0.55		6.28	0.45	0.30	285.91	286.36	286.35	286.36	286.36
MV12865	2.77	Max WS	TR200_1h	2.79	0.54	2.25	0.54		6.28	0.43	0.29	285.91	286.35	286.34	286.35	286.35
MV12865	2.77	Max WS	TR200_2h	2.02	0.09	1.93	0.09		2.93	0.20	0.14	285.91	286.12	286.11	286.12	286.11
MV12865	2.77	Max WS	TR30_30min	2.33	0.26	2.07	0.26		6.28	0.31	0.16	285.91	286.23	286.22	286.23	286.22
MV12865	2.77	Max WS	TR30_1h	2.02	0.09	1.93	0.09		2.93	0.20	0.14	285.91	286.12	286.11	286.12	286.11
MV12865	2.77	Max WS	TR30_2h	1.44	0.00	1.44	0.00					285.91	285.71	285.70	285.71	285.70
MV12865	2.76	Max WS	TR200_30min	2.80	0.63	1.64	0.63		2.37	0.96	0.96	285.40	286.36	286.35	286.37	286.36
MV12865	2.76	Max WS	TR200_1h	2.79	0.62	1.63	0.62		2.37	0.95	0.95	285.40	286.35	286.34	286.35	286.35
MV12865	2.76	Max WS	TR200_2h	2.02	0.40	1.53	0.40		2.37	0.71	0.71	285.40	286.12	286.11	286.12	286.11
MV12865	2.76	Max WS	TR30_30min	2.33	0.50	1.58	0.50		2.37	0.82	0.82	285.40	286.23	286.22	286.23	286.22
MV12865	2.76	Max WS	TR30_1h	2.02	0.40	1.53	0.40		2.37	0.71	0.71	285.40	286.12	286.11	286.12	286.11
MV12865	2.76	Max WS	TR30_2h	1.44	0.11	1.33	0.11		2.37	0.30	0.30	285.40	285.71	285.70	285.71	285.70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0.98
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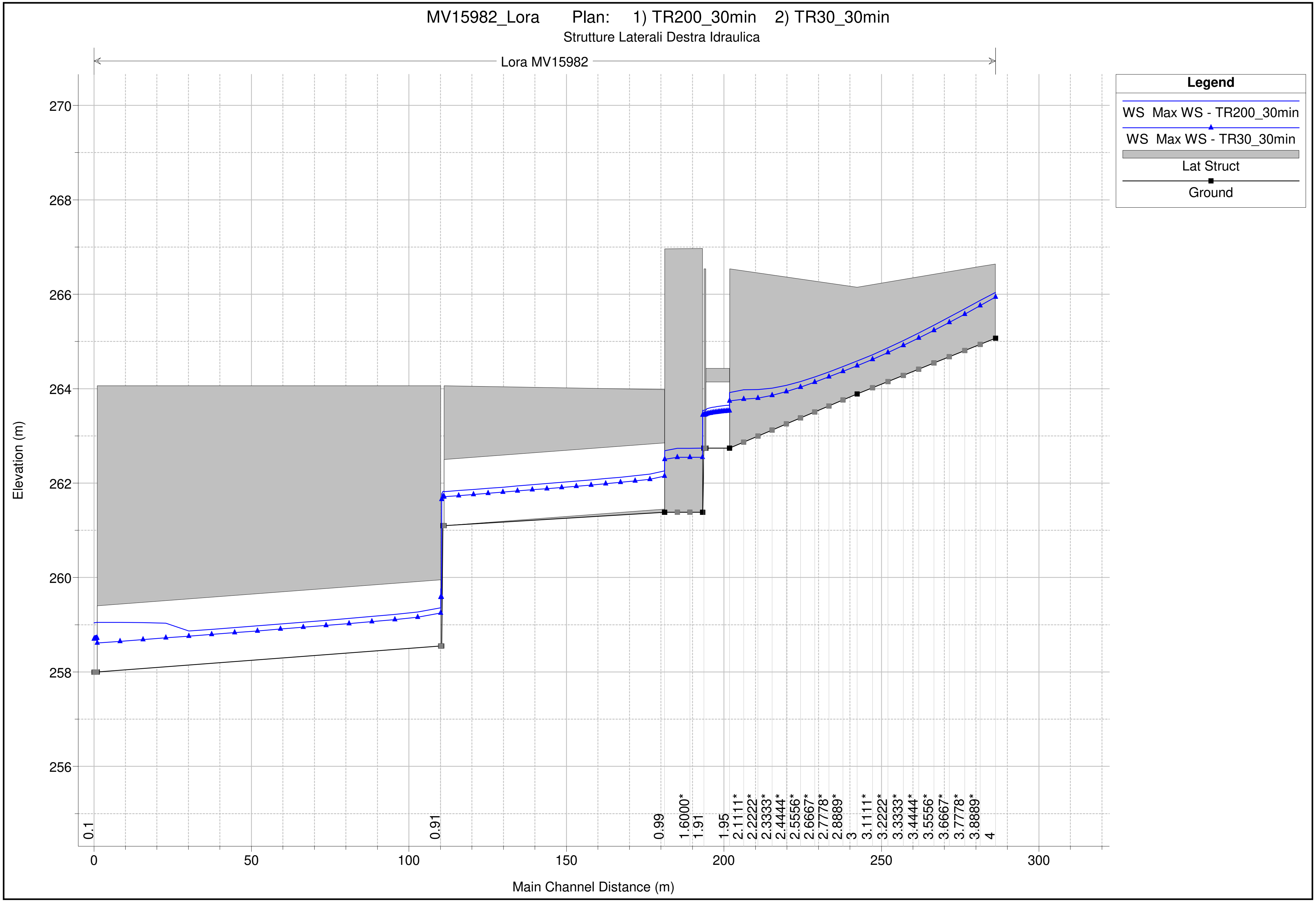
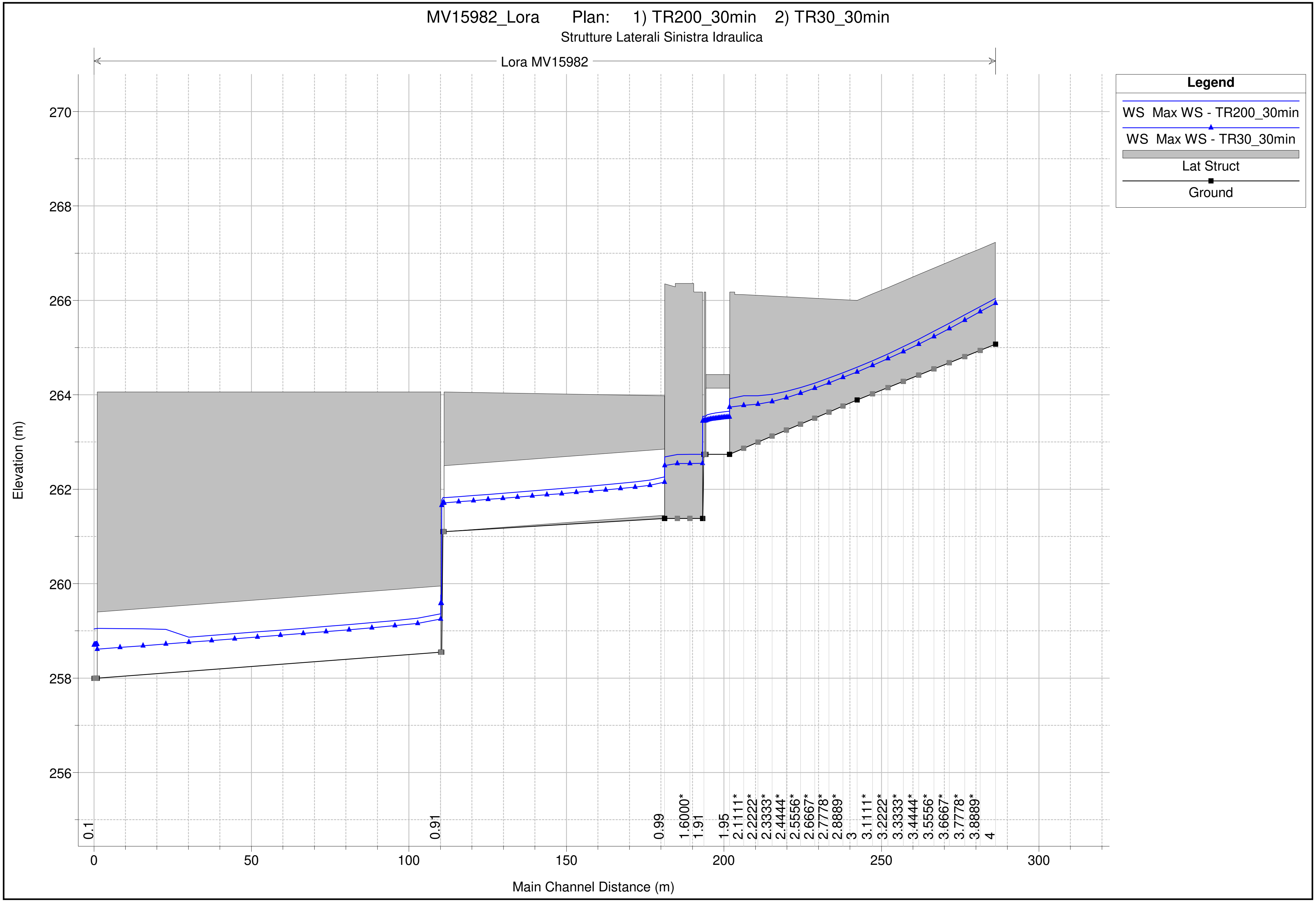
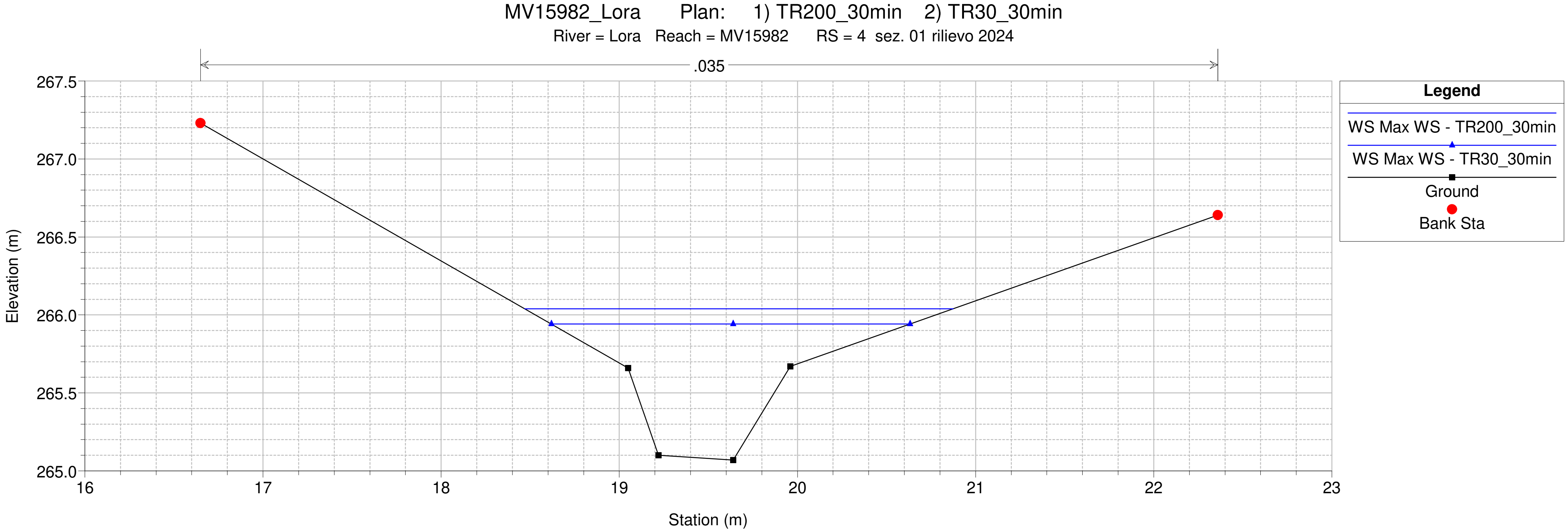
1.6000*
A2D

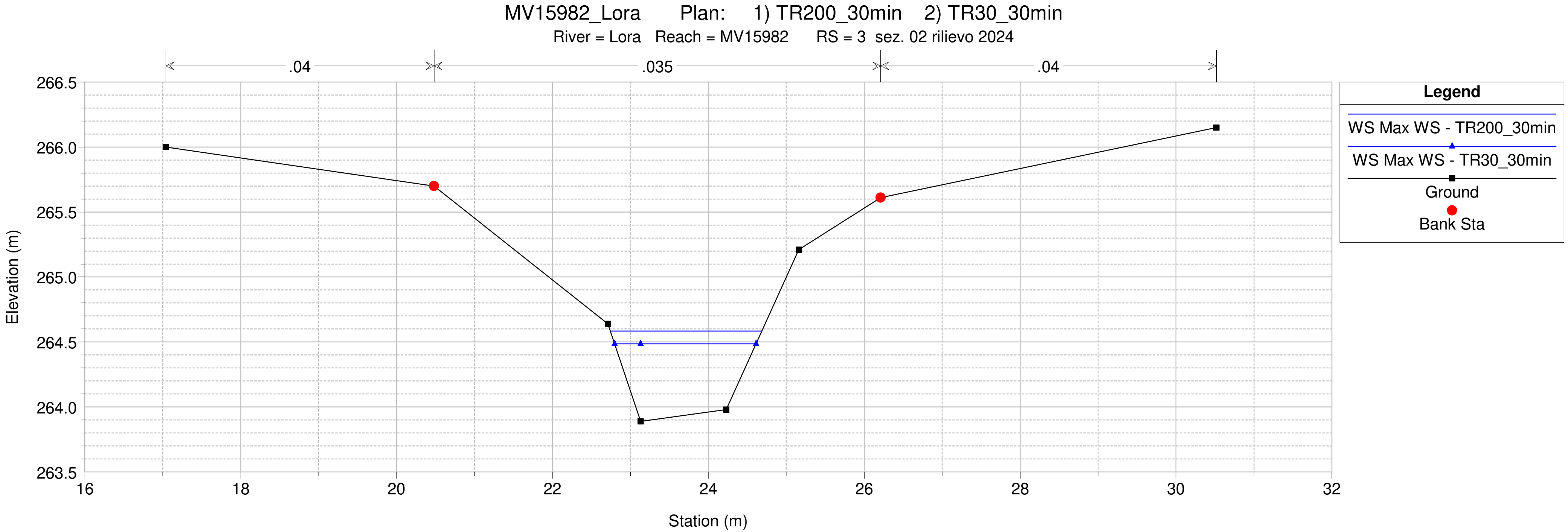


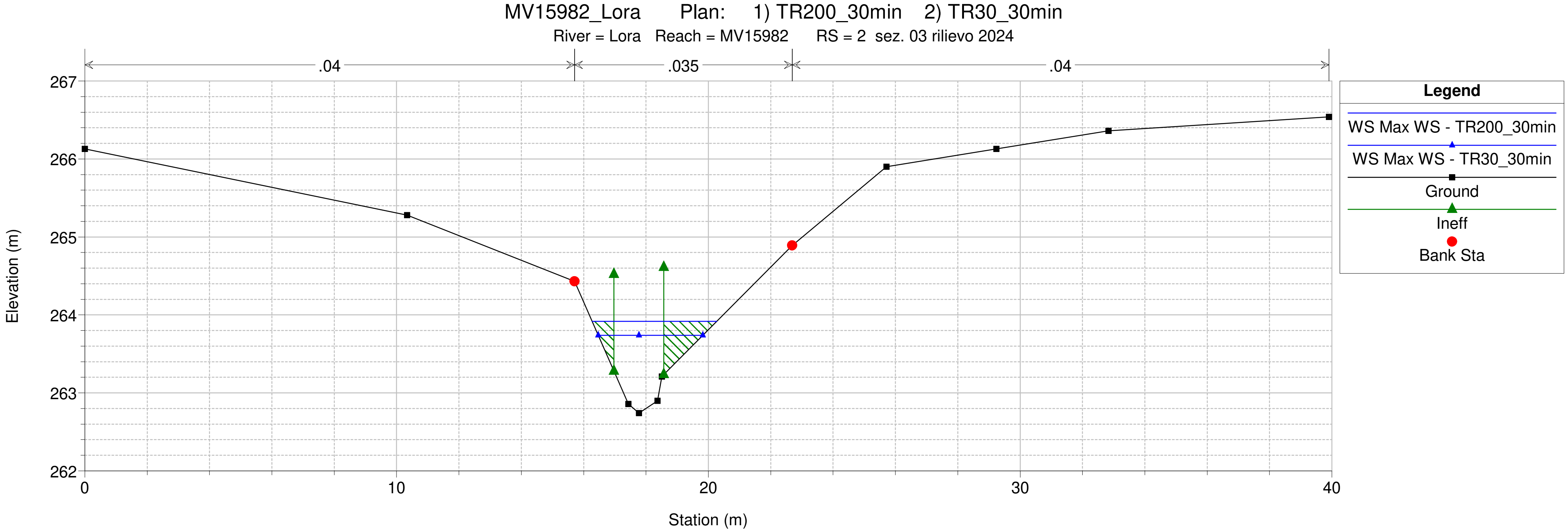
1 cm Horiz. = 15 m 1 cm Vert. = 1 m

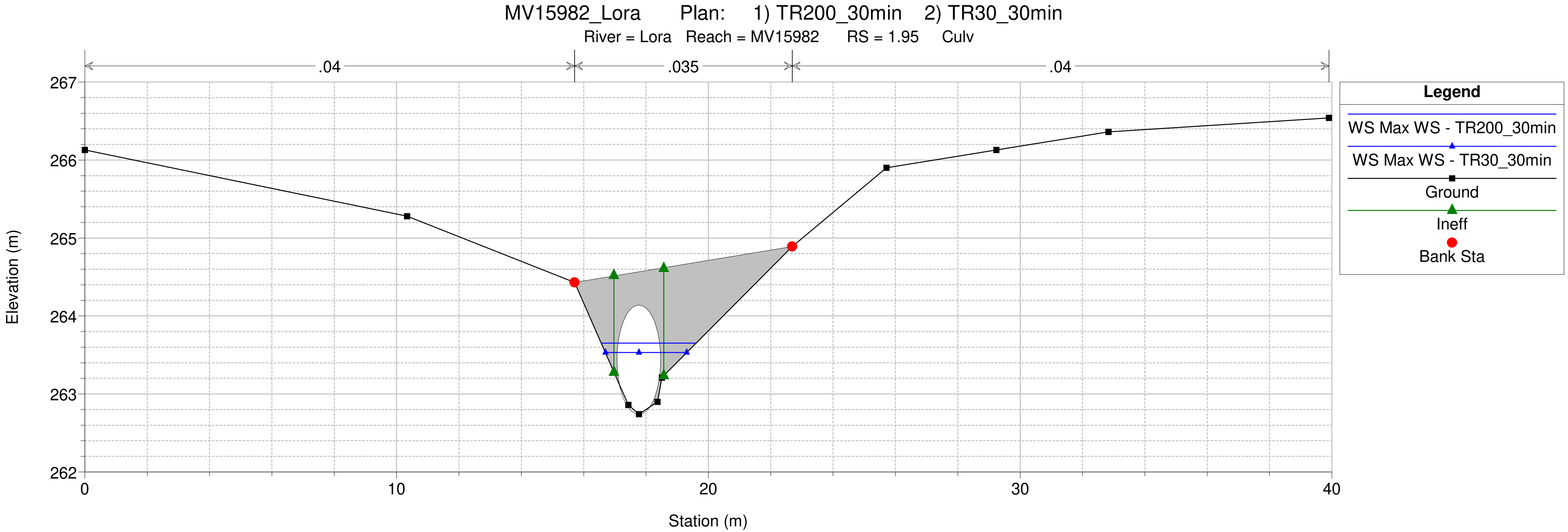


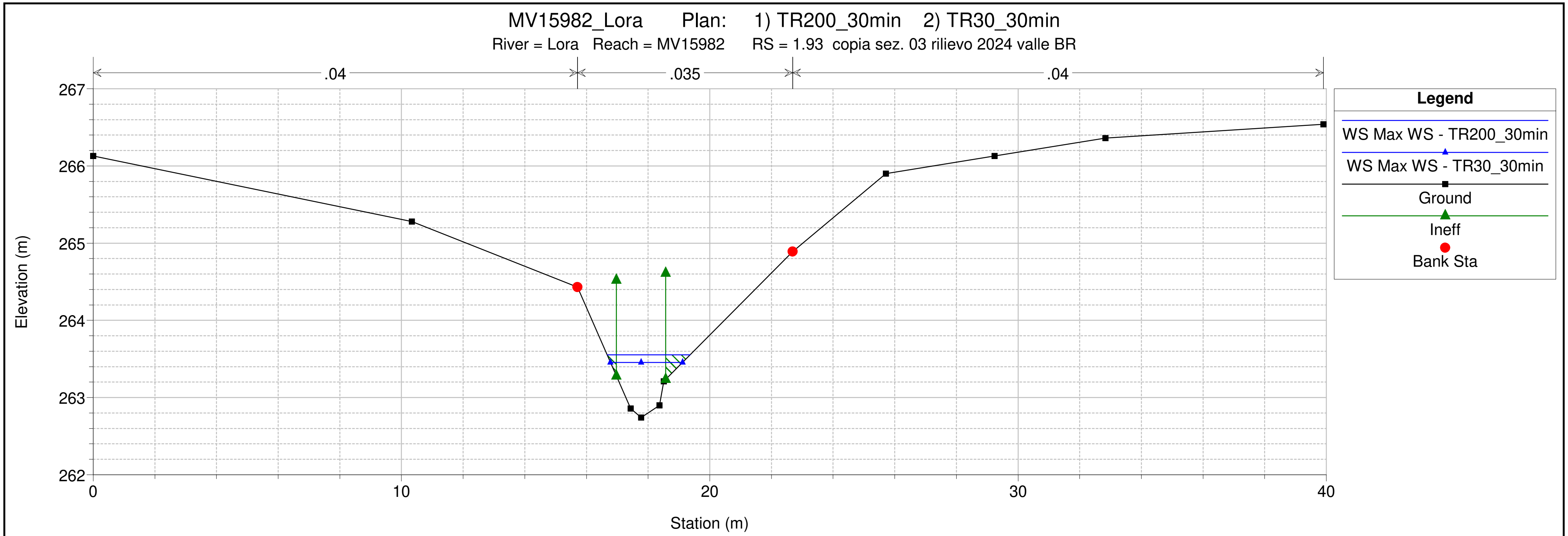
1 cm Horiz. = 15 m   1 cm Vert. = 1 m


MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 4 sez. 01 rilievo 2024
.035
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)

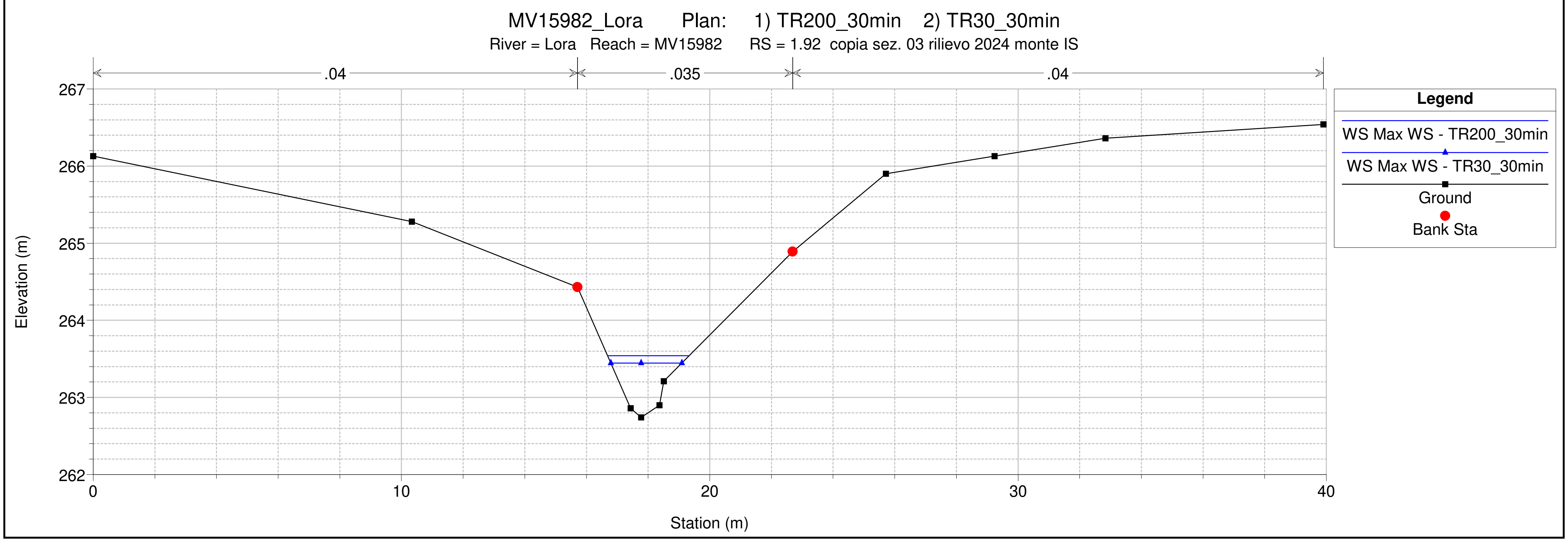

MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 3 sez. 02 rilievo 2024
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)


MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 2 sez. 03 rilievo 2024
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Ineff
Bank Sta

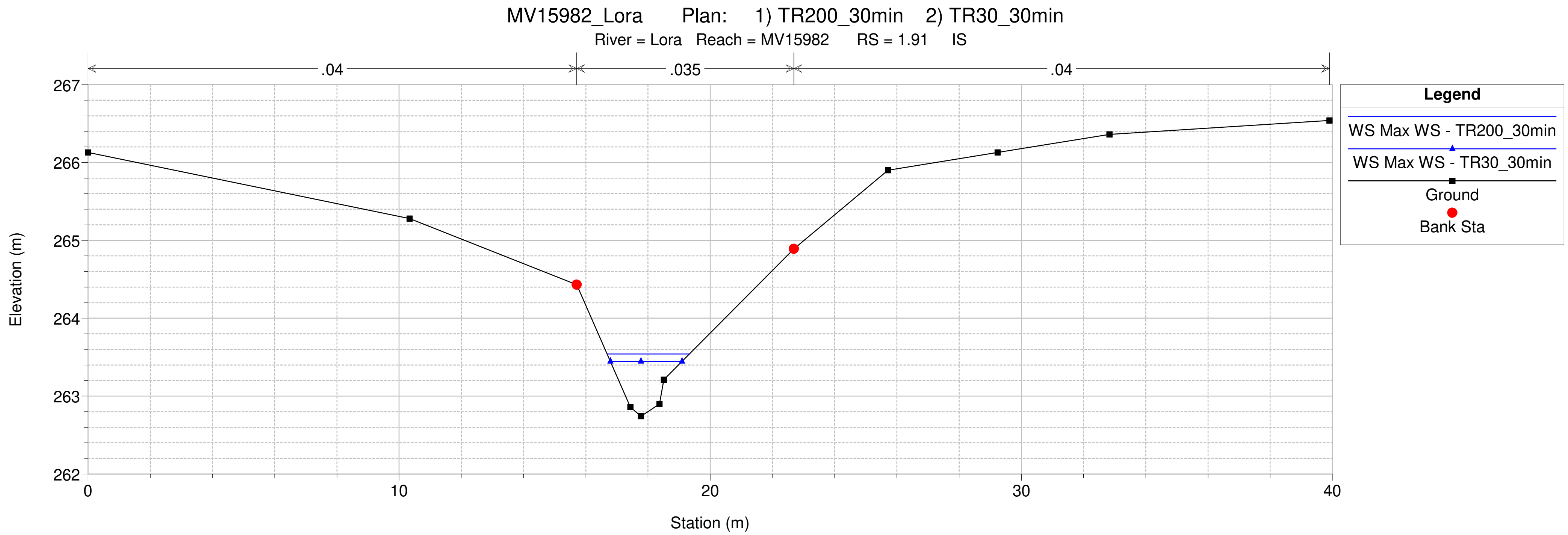

MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 1.95 Culv
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Ineff
Bank Sta

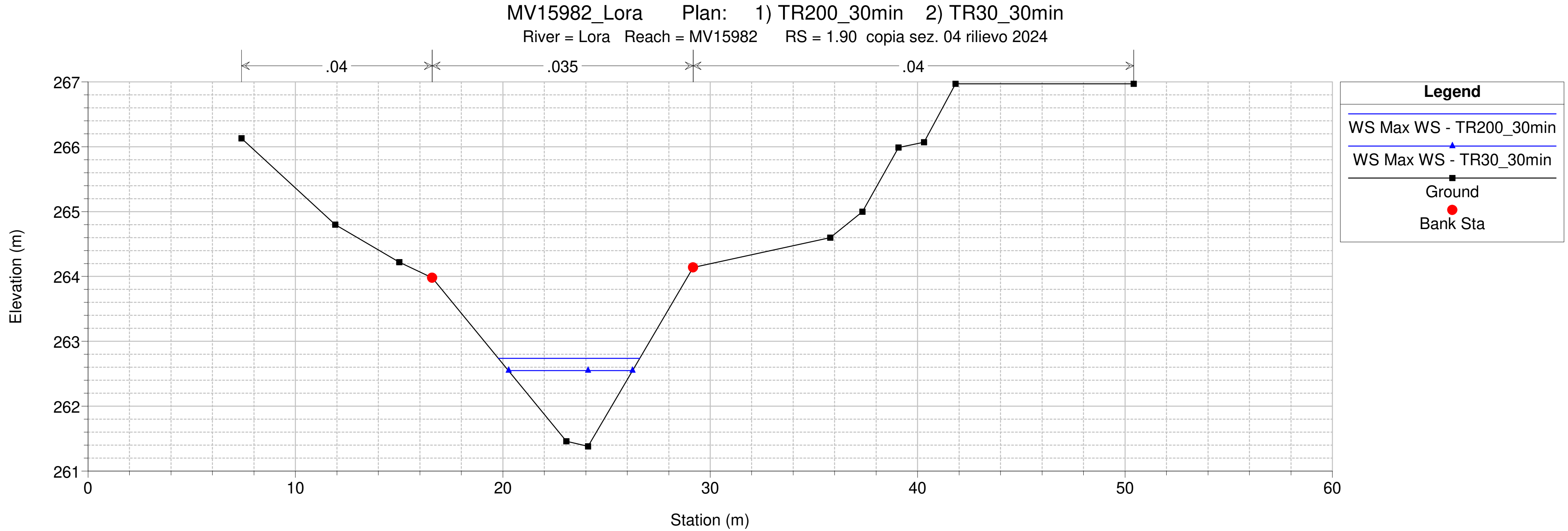


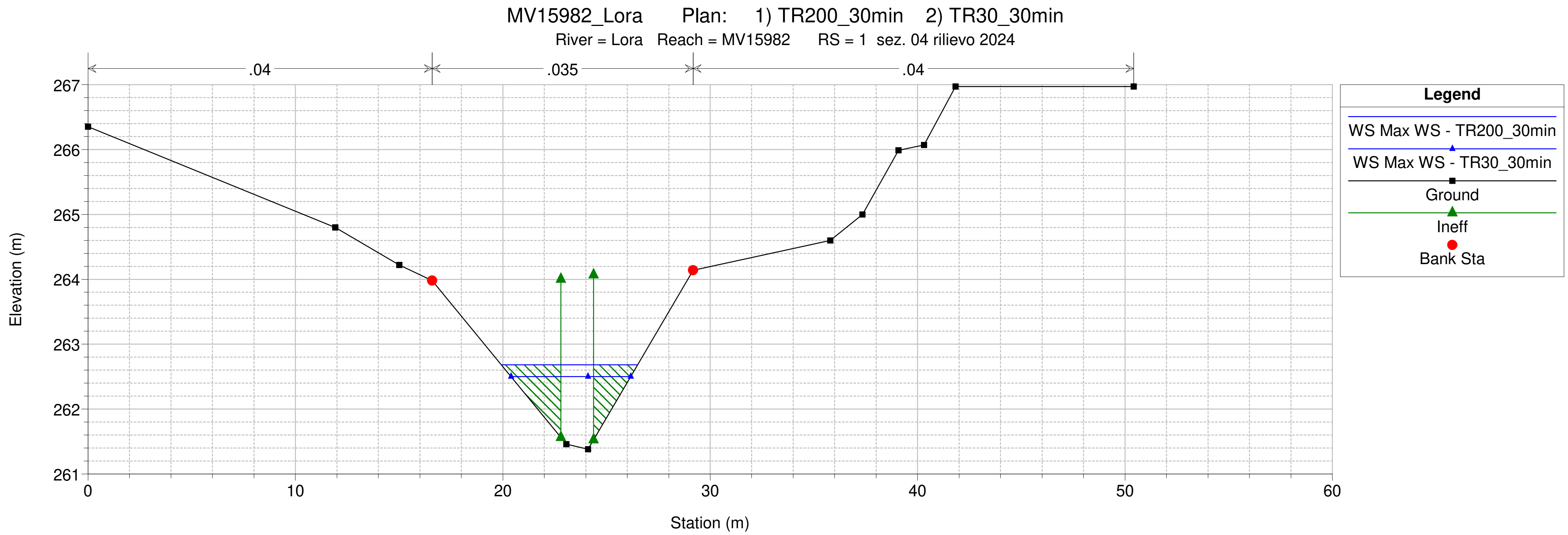
MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 1.93 copia sez. 03 rilievo 2024 valle BR
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Ineff
Bank Sta

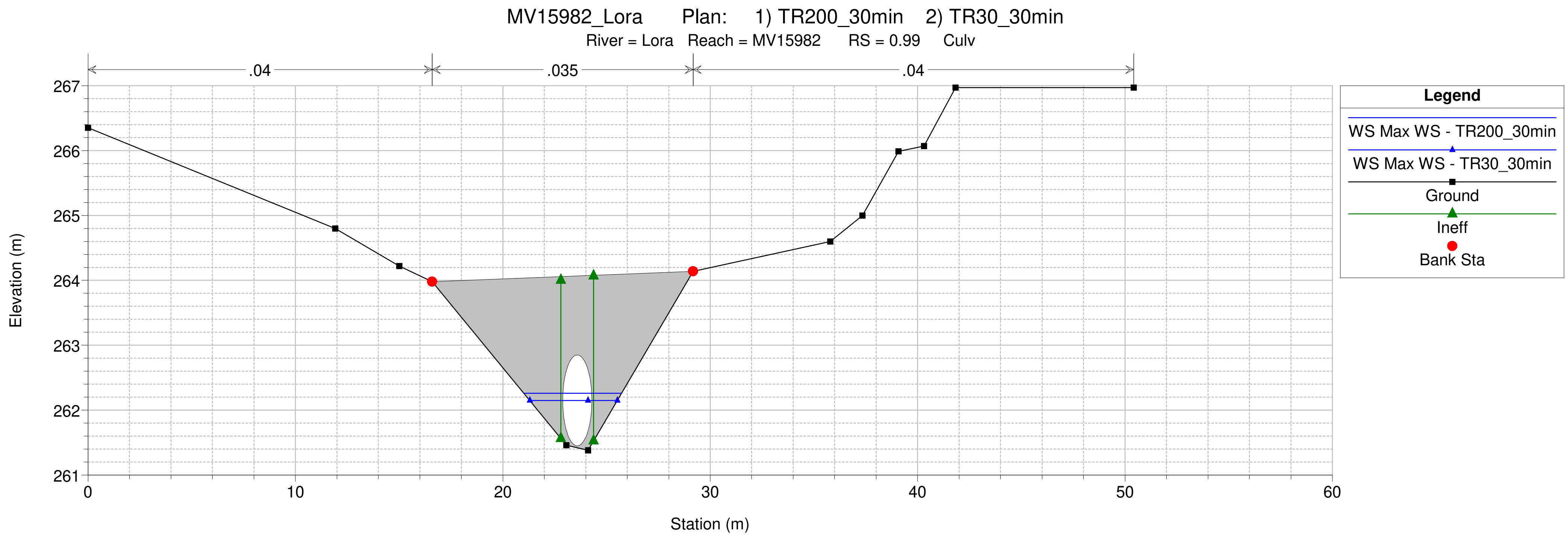


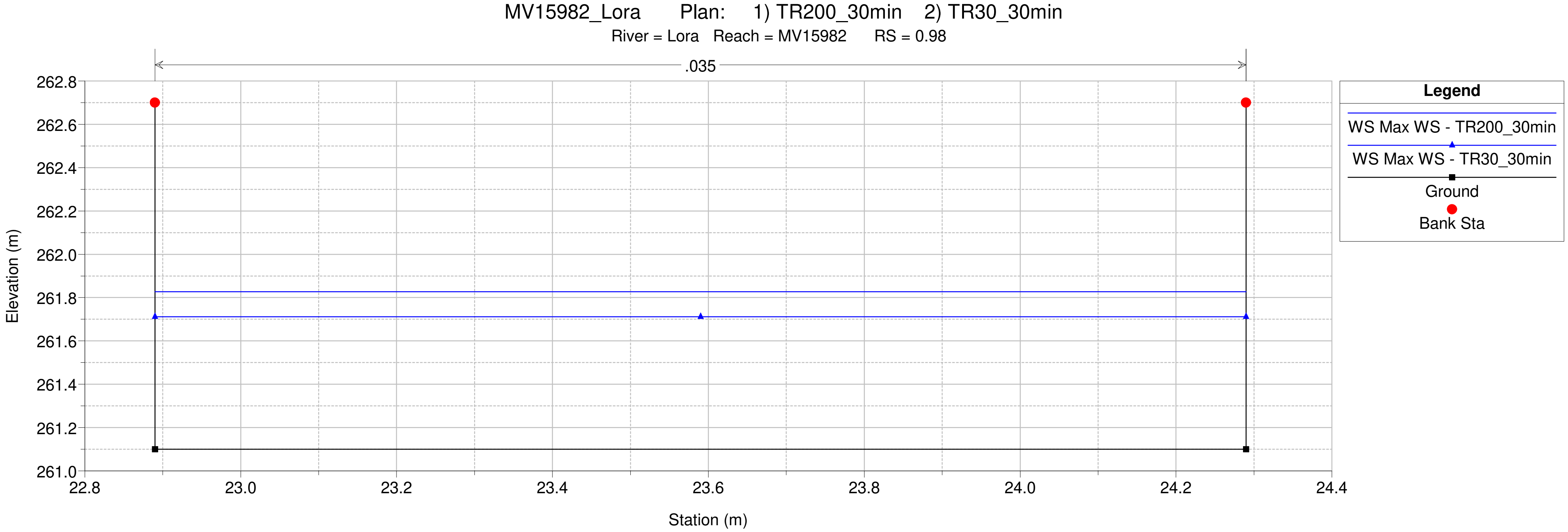
MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 1.92 copia sez. 03 rilievo 2024 monte IS
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

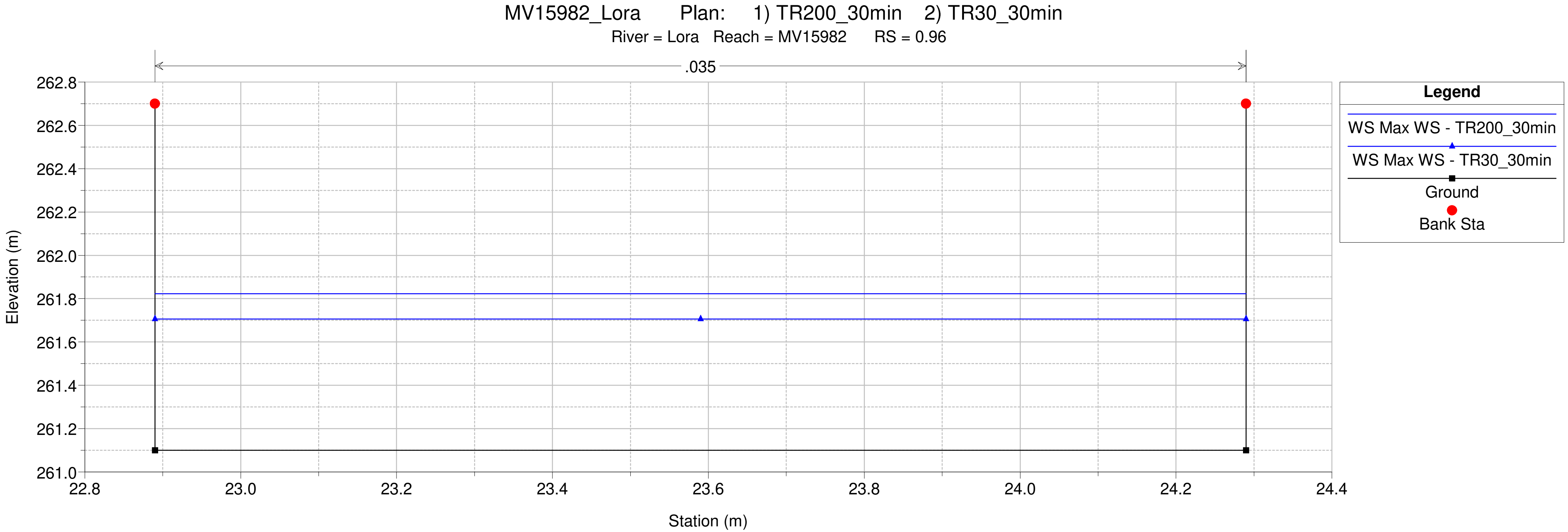

MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 1.91 IS
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)
267
266
265
264
263
262
0
10
20
30
40

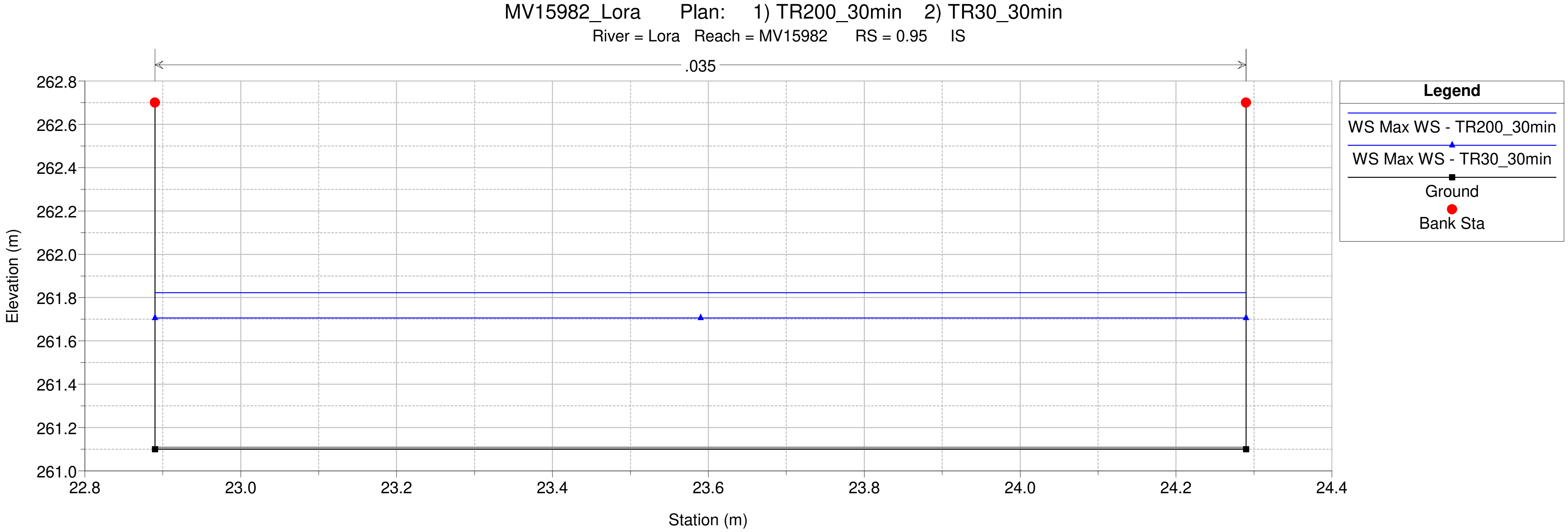

MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 1.90 copia sez. 04 rilievo 2024
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)
267
266
265
264
263
262
261
0
10
20
30
40
50
60


MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 1 sez. 04 rilievo 2024
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Ineff
Bank Sta

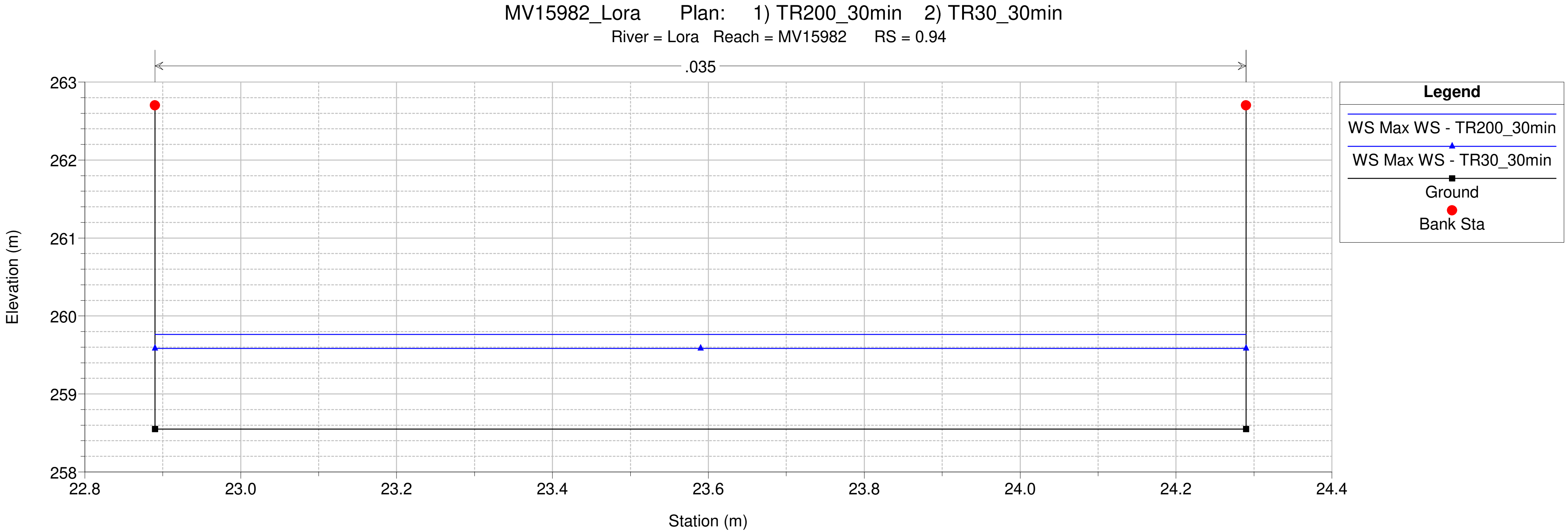

MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.99 Culv
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Ineff
Bank Sta


MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.98
.035
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
262.8
262.6
262.4
262.2
262.0
261.8
261.6
261.4
261.2
261.0
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2
24.4
Station (m)

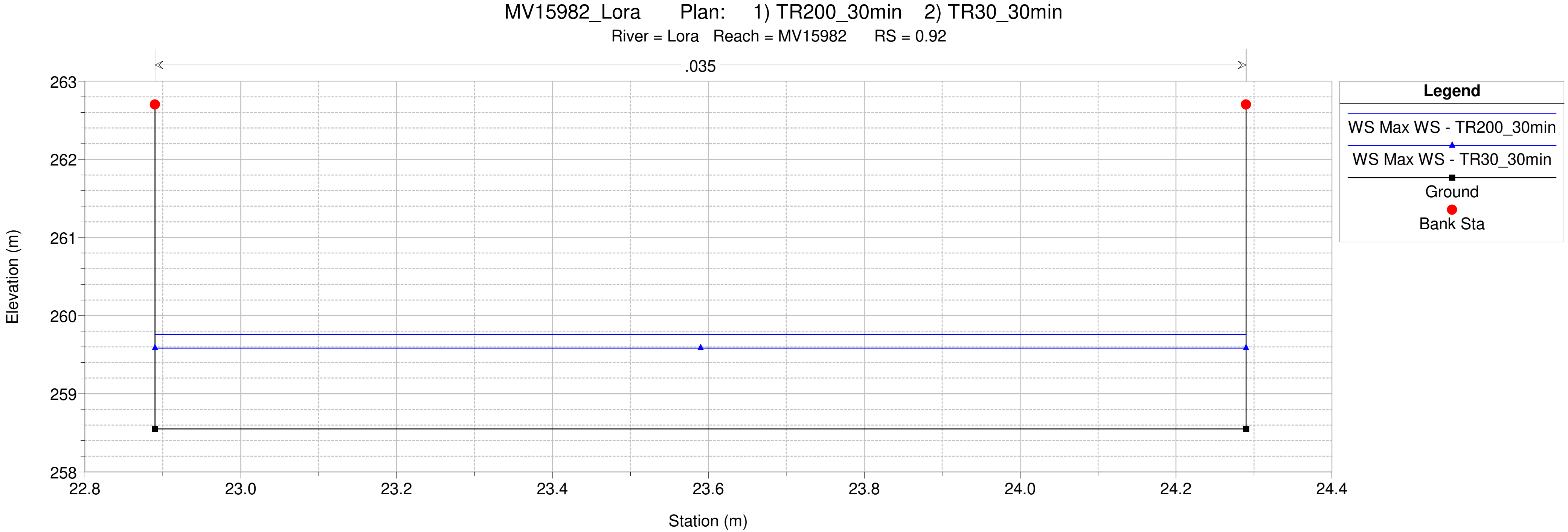

MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.96
.035
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
262.8
262.6
262.4
262.2
262.0
261.8
261.6
261.4
261.2
261.0
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2
24.4
Station (m)



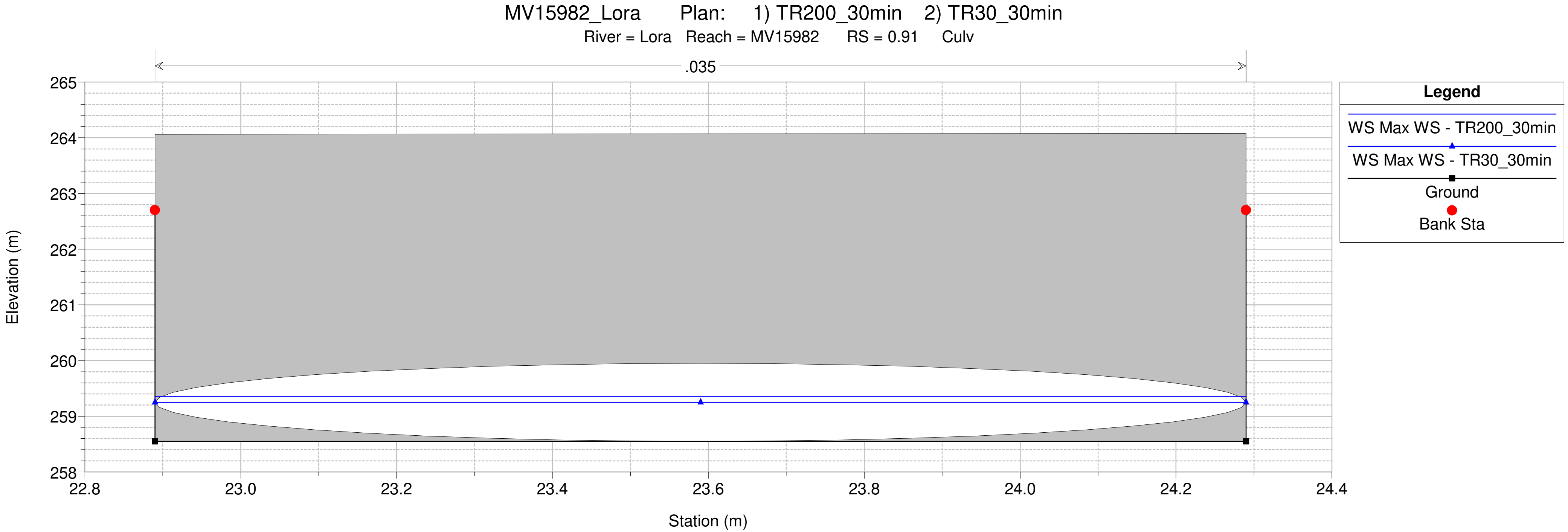
MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.95 IS
.035
Elevation (m)
262.8
262.6
262.4
262.2
262.0
261.8
261.6
261.4
261.2
261.0
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2
24.4
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



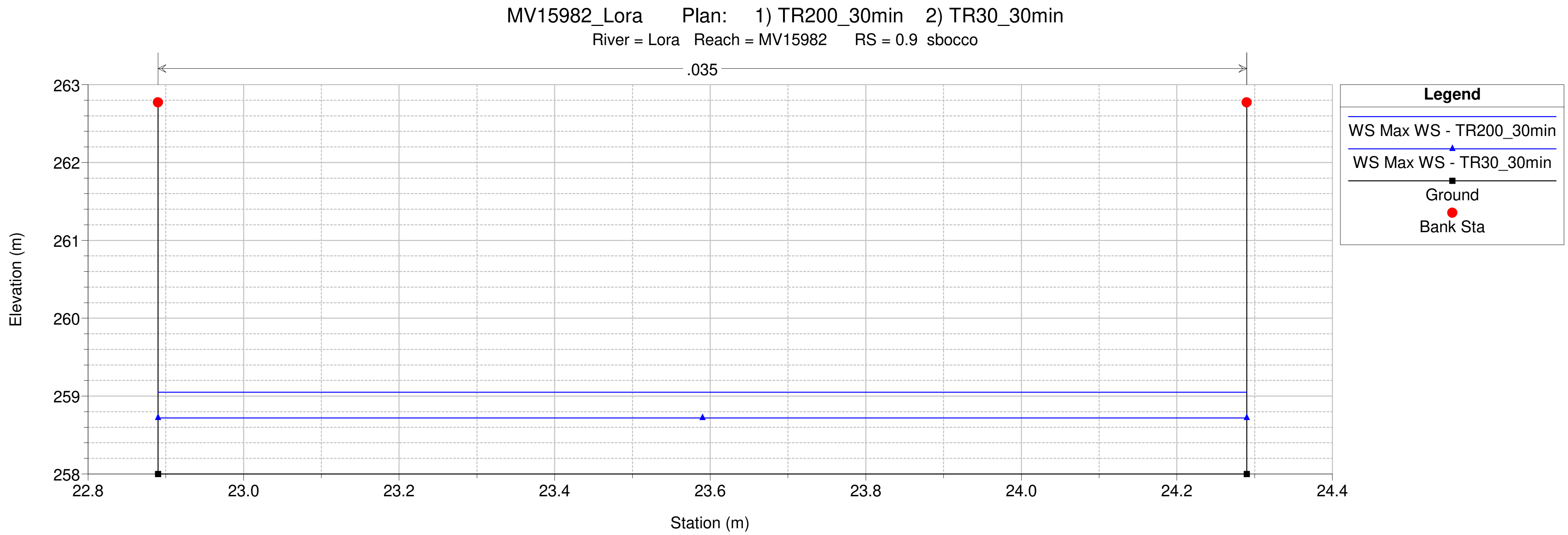
MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.94
.035
Elevation (m)
263
262
261
260
259
258
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2
24.4
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

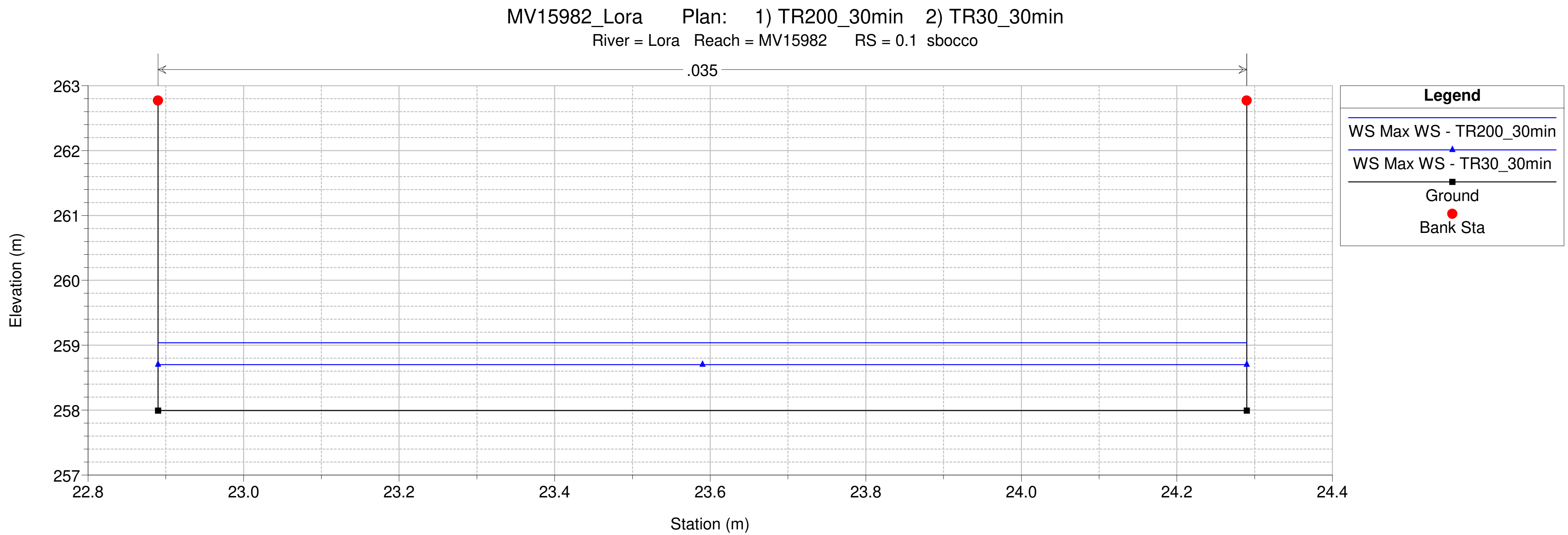


MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.92
.035
Elevation (m)
263
262
261
260
259
258
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2
24.4
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.91 Culv
.035
Elevation (m)
265
264
263
262
261
260
259
258
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2
24.4
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.9 sbocco
.035
Elevation (m)
263
262
261
260
259
258
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2
24.4
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


MV15982_Lora Plan: 1) TR200_30min 2) TR30_30min
River = Lora Reach = MV15982 RS = 0.1 sbocco
.035
Elevation (m)
263
262
261
260
259
258
257
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2
24.4
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

HEC-RAS River: Lora Reach: MV15982 Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15982	4	Max WS	TR200_30min	2.37	265.07	266.04	266.09	266.32	0.033929	2.35	1.01	2.41	1.16
MV15982	4	Max WS	TR200_1h	1.62	265.07	265.91	265.96	266.16	0.037142	2.25	0.72	1.87	1.16
MV15982	4	Max WS	TR200_2h	1.04	265.07	265.75	265.80	265.99	0.040957	2.18	0.48	1.24	1.12
MV15982	4	Max WS	TR30_30min	1.79	265.07	265.94	265.99	266.20	0.036010	2.27	0.79	2.01	1.15
MV15982	4	Max WS	TR30_1h	1.22	265.07	265.80	265.86	266.05	0.040317	2.21	0.55	1.46	1.15
MV15982	4	Max WS	TR30_2h	0.78	265.07	265.65	265.66	265.87	0.038291	2.08	0.38	0.90	1.03
MV15982	3.99			Lat Struct									
MV15982	3.98			Lat Struct									
MV15982	3	Max WS	TR200_30min	2.37	263.89	264.58	264.61	264.88	0.026306	2.40	0.99	1.95	1.07
MV15982	3	Max WS	TR200_1h	1.62	263.89	264.45	264.48	264.69	0.026639	2.17	0.75	1.77	1.07
MV15982	3	Max WS	TR200_2h	1.04	263.89	264.33	264.35	264.52	0.026748	1.92	0.54	1.62	1.06
MV15982	3	Max WS	TR30_30min	1.79	263.89	264.49	264.51	264.74	0.026611	2.23	0.80	1.82	1.07
MV15982	3	Max WS	TR30_1h	1.22	263.89	264.37	264.39	264.58	0.026716	2.01	0.61	1.67	1.06
MV15982	3	Max WS	TR30_2h	0.78	263.89	264.27	264.28	264.43	0.026859	1.77	0.44	1.53	1.05
MV15982	2	Max WS	TR200_30min	2.36	262.74	263.92		264.03	0.003680	1.48	1.59	4.00	0.48
MV15982	2	Max WS	TR200_1h	1.41	262.74	263.71		263.77	0.002886	1.12	1.26	3.25	0.40
MV15982	2	Max WS	TR200_2h	0.84	262.74	263.50		263.54	0.002921	0.91	0.92	2.49	0.39
MV15982	2	Max WS	TR30_30min	1.79	262.74	263.74		263.83	0.004086	1.37	1.30	3.36	0.48
MV15982	2	Max WS	TR30_1h	1.20	262.74	263.65		263.70	0.002766	1.04	1.16	3.02	0.39
MV15982	2	Max WS	TR30_2h	0.78	262.74	263.47		263.51	0.002927	0.89	0.87	2.39	0.38
MV15982	1.95			Culvert									
MV15982	1.93	Max WS	TR200_30min	2.36	262.74	263.55	263.53	263.83	0.016993	2.35	1.01	2.69	0.95
MV15982	1.93	Max WS	TR200_1h	1.62	262.74	263.43	263.40	263.63	0.016531	2.00	0.81	2.25	0.90
MV15982	1.93	Max WS	TR200_2h	1.04	262.74	263.29	263.27	263.45	0.019395	1.76	0.59	1.76	0.92
MV15982	1.93	Max WS	TR30_30min	1.79	262.74	263.45	263.43	263.68	0.017060	2.10	0.85	2.34	0.92
MV15982	1.93	Max WS	TR30_1h	1.35	262.74	263.36	263.34	263.55	0.018609	1.93	0.70	2.00	0.93
MV15982	1.93	Max WS	TR30_2h	0.85	262.74	263.23	263.22	263.38	0.021941	1.71	0.50	1.55	0.96
MV15982	1.929			Lat Struct									
MV15982	1.928			Lat Struct									
MV15982	1.92	Max WS	TR200_30min	2.36	262.74	263.54	263.54	263.76	0.020564	2.06	1.15	2.65	1.00
MV15982	1.92	Max WS	TR200_1h	1.60	262.74	263.42	263.41	263.60	0.020863	1.90	0.85	2.21	0.98
MV15982	1.92	Max WS	TR200_2h	1.04	262.74	263.28	263.28	263.45	0.022758	1.80	0.58	1.72	0.99
MV15982	1.92	Max WS	TR30_30min	1.77	262.74	263.44	263.44	263.64	0.021514	1.96	0.90	2.30	1.00
MV15982	1.92	Max WS	TR30_1h	1.34	262.74	263.35	263.35	263.54	0.023469	1.92	0.70	1.96	1.02
MV15982	1.92	Max WS	TR30_2h	0.84	262.74	263.22	263.22	263.38	0.023488	1.76	0.48	1.51	0.99
MV15982	1.91			Inl Struct									
MV15982	1.90	Max WS	TR200_30min	2.36	261.38	262.74	261.98	262.75	0.000413	0.46	5.17	6.82	0.17
MV15982	1.90	Max WS	TR200_1h	1.62	261.38	262.49	261.87	262.50	0.000510	0.45	3.60	5.72	0.18
MV15982	1.90	Max WS	TR200_2h	1.04	261.38	262.27	261.78	262.28	0.000601	0.43	2.44	4.74	0.19
MV15982	1.90	Max WS	TR30_30min	1.79	261.38	262.55	261.90	262.56	0.000486	0.45	3.95	5.98	0.18
MV15982	1.90	Max WS	TR30_1h	1.25	261.38	262.35	261.82	262.36	0.000567	0.44	2.85	5.11	0.19
MV15982	1.90	Max WS	TR30_2h	0.79	261.38	262.15	261.73	262.16	0.000650	0.41	1.92	4.23	0.19
MV15982	1.89			Lat Struct									
MV15982	1.88			Lat Struct									
MV15982	1	Max WS	TR200_30min	2.36	261.38	262.68		262.76	0.001393	1.20	1.96	6.58	0.34
MV15982	1	Max WS	TR200_1h	1.62	261.38	262.45		262.50	0.001330	1.02	1.59	5.53	0.32
MV15982	1	Max WS	TR200_2h	1.04	261.38	262.24		262.27	0.001206	0.83	1.25	4.60	0.30
MV15982	1	Max WS	TR30_30min	1.79	261.38	262.50		262.56	0.001351	1.07	1.68	5.78	0.33
MV15982	1	Max WS	TR30_1h	1.25	261.38	262.32		262.36	0.001262	0.90	1.38	4.96	0.31
MV15982	1	Max WS	TR30_2h	0.78	261.38	262.12		262.15	0.001116	0.72	1.08	4.12	0.28
MV15982	0.99			Culvert									
MV15982	0.98	Max WS	TR200_30min	2.36	261.10	261.83	261.76	262.10	0.025959	2.32	1.02	1.40	0.87
MV15982	0.98	Max WS	TR200_1h	1.62	261.10	261.67	261.61	261.88	0.022973	2.01	0.80	1.40	0.85
MV15982	0.98	Max WS	TR200_2h	1.04	261.10	261.54	261.48	261.68	0.020241	1.70	0.61	1.40	0.82
MV15982	0.98	Max WS	TR30_30min	1.78	261.10	261.71	261.65	261.93	0.023694	2.08	0.86	1.40	0.85
MV15982	0.98	Max WS	TR30_1h	1.25	261.10	261.59	261.53	261.76	0.021071	1.81	0.69	1.40	0.83
MV15982	0.98	Max WS	TR30_2h	0.78	261.10	261.47	261.42	261.58	0.018805	1.52	0.51	1.40	0.80
MV15982	0.96	Max WS	TR200_30min	2.36	261.10	261.82	261.76	262.10	0.026447	2.33	1.01	1.40	0.88
MV15982	0.96	Max WS	TR200_1h	1.62	261.10	261.67	261.61	261.88	0.023480	2.02	0.80	1.40	0.86
MV15982	0.96	Max WS	TR200_2h	1.04	261.10	261.53	261.48	261.68	0.020809	1.71	0.61	1.40	0.83
MV15982	0.96	Max WS	TR30_30min	1.78	261.10	261.71	261.65	261.93	0.024214	2.10	0.85	1.40	0.86
MV15982	0.96	Max WS	TR30_1h	1.25	261.10	261.59	261.53	261.76	0.021584	1.83	0.68	1.40	0.84
MV15982	0.96	Max WS	TR30_2h	0.78	261.10	261.46	261.42	261.58	0.019353	1.53	0.51	1.40	0.81
MV15982	0.95			Inl Struct									
MV15982	0.94	Max WS	TR200_30min	2.36	258.55	259.76	259.21	259.86	0.006982	1.39	1.70	1.40	0.40
MV15982	0.94	Max WS	TR200_1h	1.62	258.55	259.53	259.06	259.60	0.005600	1.18	1.37	1.40	0.38
MV15982	0.94	Max WS	TR200_2h	1.04	258.55	259.32	258.93	259.37	0.004303	0.96	1.08	1.40	0.35
MV15982	0.94	Max WS	TR30_30min	1.79	258.55	259.59	259.10	259.66	0.005953	1.23	1.45	1.40	0.39
MV15982	0.94	Max WS	TR30_1h	1.25	258.55	259.40	258.98	259.46	0.004834	1.05	1.19	1.40	0.36

HEC-RAS River: Lora Reach: MV15982 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15982	0.94	Max WS	TR30_2h	0.78	258.55	259.22	258.87	259.25	0.003598	0.84	0.93	1.40	0.33
MV15982	0.92	Max WS	TR200_30min	2.36	258.55	259.76		259.86	0.007009	1.39	1.70	1.40	0.40
MV15982	0.92	Max WS	TR200_1h	1.62	258.55	259.53		259.60	0.005622	1.18	1.37	1.40	0.38
MV15982	0.92	Max WS	TR200_2h	1.04	258.55	259.32		259.37	0.004321	0.96	1.08	1.40	0.35
MV15982	0.92	Max WS	TR30_30min	1.79	258.55	259.58		259.66	0.005975	1.23	1.45	1.40	0.39
MV15982	0.92	Max WS	TR30_1h	1.25	258.55	259.40		259.46	0.004852	1.05	1.19	1.40	0.36
MV15982	0.92	Max WS	TR30_2h	0.78	258.55	259.21		259.25	0.003611	0.84	0.93	1.40	0.33
MV15982	0.91			Culvert									
MV15982	0.9	Max WS	TR200_30min	2.36	258.00	259.05	258.66	259.18	0.009992	1.60	1.47	1.40	0.50
MV15982	0.9	Max WS	TR200_1h	1.62	258.00	259.05	258.51	259.11	0.004761	1.10	1.46	1.40	0.34
MV15982	0.9	Max WS	TR200_2h	1.04	258.00	259.04	258.38	259.07	0.001974	0.71	1.46	1.40	0.22
MV15982	0.9	Max WS	TR30_30min	1.78	258.00	258.72	258.55	258.88	0.015345	1.77	1.01	1.40	0.67
MV15982	0.9	Max WS	TR30_1h	1.23	258.00	258.71	258.43	258.79	0.007553	1.24	0.99	1.40	0.47
MV15982	0.9	Max WS	TR30_2h	0.77	258.00	258.70	258.31	258.73	0.003039	0.78	0.98	1.40	0.30
MV15982	0.1	Max WS	TR200_30min	0.10	257.99	259.04	258.08	259.04	0.000018	0.07	1.46	1.40	0.02
MV15982	0.1	Max WS	TR200_1h	0.10	257.99	259.04	258.08	259.04	0.000018	0.07	1.46	1.40	0.02
MV15982	0.1	Max WS	TR200_2h	0.10	257.99	259.04	258.08	259.04	0.000018	0.07	1.46	1.40	0.02
MV15982	0.1	Max WS	TR30_30min	0.10	257.99	258.70	258.08	258.70	0.000051	0.10	0.99	1.40	0.04
MV15982	0.1	Max WS	TR30_1h	0.10	257.99	258.70	258.08	258.70	0.000051	0.10	0.99	1.40	0.04
MV15982	0.1	Max WS	TR30_2h	0.10	257.99	258.70	258.08	258.70	0.000051	0.10	0.99	1.40	0.04

HEC-RAS River: Lora Reach: MV15982 Profile: Max WS

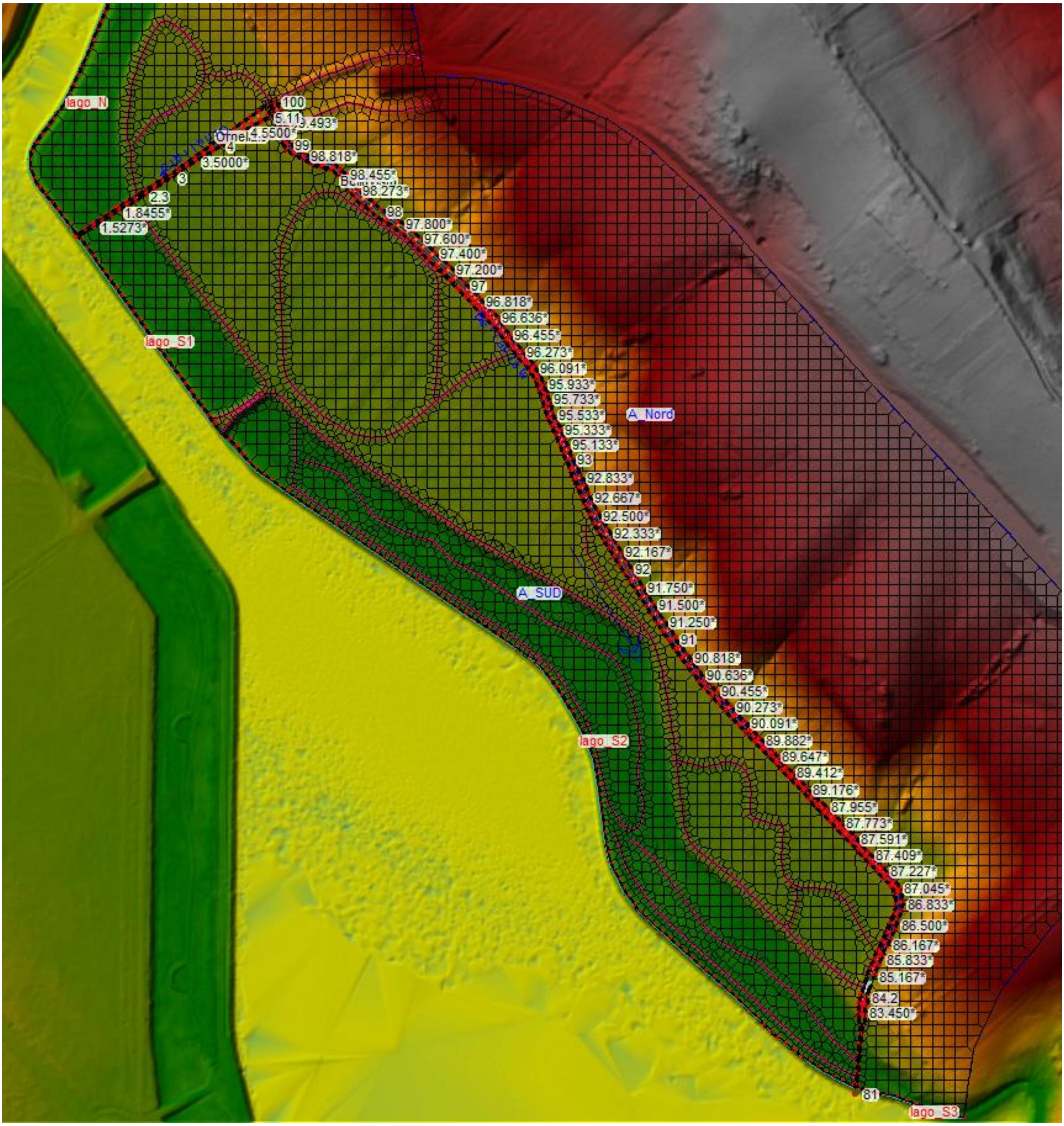
Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
MV15982	3.99	Max WS	TR200_30min	2.37	0.00	2.36	0.00		1.87	0.02	0.01	266.15	266.32	266.04	264.03	263.92
MV15982	3.99	Max WS	TR200_1h	1.62	0.00	1.41	0.00		1.87	0.02	0.01	266.15	266.16	265.91	263.77	263.71
MV15982	3.99	Max WS	TR200_2h	1.04	0.00	0.84	0.00		1.87	0.02	0.01	266.15	265.99	265.75	263.54	263.50
MV15982	3.99	Max WS	TR30_30min	1.79	0.00	1.79	0.00		1.87	0.02	0.01	266.15	266.20	265.94	263.83	263.74
MV15982	3.99	Max WS	TR30_1h	1.22	0.00	1.20	0.00		1.87	0.02	0.01	266.15	266.05	265.80	263.70	263.65
MV15982	3.99	Max WS	TR30_2h	0.78	0.00	0.78	0.00		1.87	0.02	0.01	266.15	265.87	265.65	263.51	263.47
MV15982	3.98	Max WS	TR200_30min	2.37	0.00	2.36	0.00					266.00	266.32	266.04	264.03	263.92
MV15982	3.98	Max WS	TR200_1h	1.62	0.00	1.41	0.00					266.00	266.16	265.91	263.77	263.71
MV15982	3.98	Max WS	TR200_2h	1.04	0.00	0.84	0.00					266.00	265.99	265.75	263.54	263.50
MV15982	3.98	Max WS	TR30_30min	1.79	0.00	1.79	0.00					266.00	266.20	265.94	263.83	263.74
MV15982	3.98	Max WS	TR30_1h	1.22	0.00	1.20	0.00					266.00	266.05	265.80	263.70	263.65
MV15982	3.98	Max WS	TR30_2h	0.78	0.00	0.78	0.00					266.00	265.87	265.65	263.51	263.47
MV15982	1.929	Max WS	TR200_30min	2.36	0.00	2.36	0.00					266.54	263.83	263.55	263.76	263.54
MV15982	1.929	Max WS	TR200_1h	1.62	0.00	1.60	0.00					266.54	263.63	263.43	263.60	263.42
MV15982	1.929	Max WS	TR200_2h	1.04	0.00	1.04	0.00					266.54	263.45	263.29	263.45	263.28
MV15982	1.929	Max WS	TR30_30min	1.79	0.00	1.77	0.00					266.54	263.68	263.45	263.64	263.44
MV15982	1.929	Max WS	TR30_1h	1.35	0.00	1.34	0.00					266.54	263.55	263.36	263.54	263.35
MV15982	1.929	Max WS	TR30_2h	0.85	0.00	0.84	0.00					266.54	263.38	263.23	263.38	263.22
MV15982	1.928	Max WS	TR200_30min	2.36	0.00	2.36	0.00					266.18	263.83	263.55	263.76	263.54
MV15982	1.928	Max WS	TR200_1h	1.62	0.00	1.60	0.00					266.18	263.63	263.43	263.60	263.42
MV15982	1.928	Max WS	TR200_2h	1.04	0.00	1.04	0.00					266.18	263.45	263.29	263.45	263.28
MV15982	1.928	Max WS	TR30_30min	1.79	0.00	1.77	0.00					266.18	263.68	263.45	263.64	263.44
MV15982	1.928	Max WS	TR30_1h	1.35	0.00	1.34	0.00					266.18	263.55	263.36	263.54	263.35
MV15982	1.928	Max WS	TR30_2h	0.85	0.00	0.84	0.00					266.18	263.38	263.23	263.38	263.22
MV15982	1.89	Max WS	TR200_30min	2.36	0.00	2.36	0.00					266.96	262.75	262.74	262.76	262.68
MV15982	1.89	Max WS	TR200_1h	1.62	0.00	1.62	0.00					266.96	262.50	262.49	262.50	262.45
MV15982	1.89	Max WS	TR200_2h	1.04	0.00	1.04	0.00					266.96	262.28	262.27	262.27	262.24
MV15982	1.89	Max WS	TR30_30min	1.79	0.00	1.79	0.00					266.96	262.56	262.55	262.56	262.50
MV15982	1.89	Max WS	TR30_1h	1.25	0.00	1.25	0.00					266.96	262.36	262.35	262.36	262.32
MV15982	1.89	Max WS	TR30_2h	0.79	0.00	0.78	0.00					266.96	262.16	262.15	262.15	262.12
MV15982	1.88	Max WS	TR200_30min	2.36	0.00	2.36	0.00					266.18	262.75	262.74	262.76	262.68
MV15982	1.88	Max WS	TR200_1h	1.62	0.00	1.62	0.00					266.18	262.50	262.49	262.50	262.45
MV15982	1.88	Max WS	TR200_2h	1.04	0.00	1.04	0.00					266.18	262.28	262.27	262.27	262.24
MV15982	1.88	Max WS	TR30_30min	1.79	0.00	1.79	0.00					266.18	262.56	262.55	262.56	262.50
MV15982	1.88	Max WS	TR30_1h	1.25	0.00	1.25	0.00					266.18	262.36	262.35	262.36	262.32
MV15982	1.88	Max WS	TR30_2h	0.79	0.00	0.78	0.00					266.18	262.16	262.15	262.15	262.13

Fosso
MV12865

Bellavista

Fosso MV16963

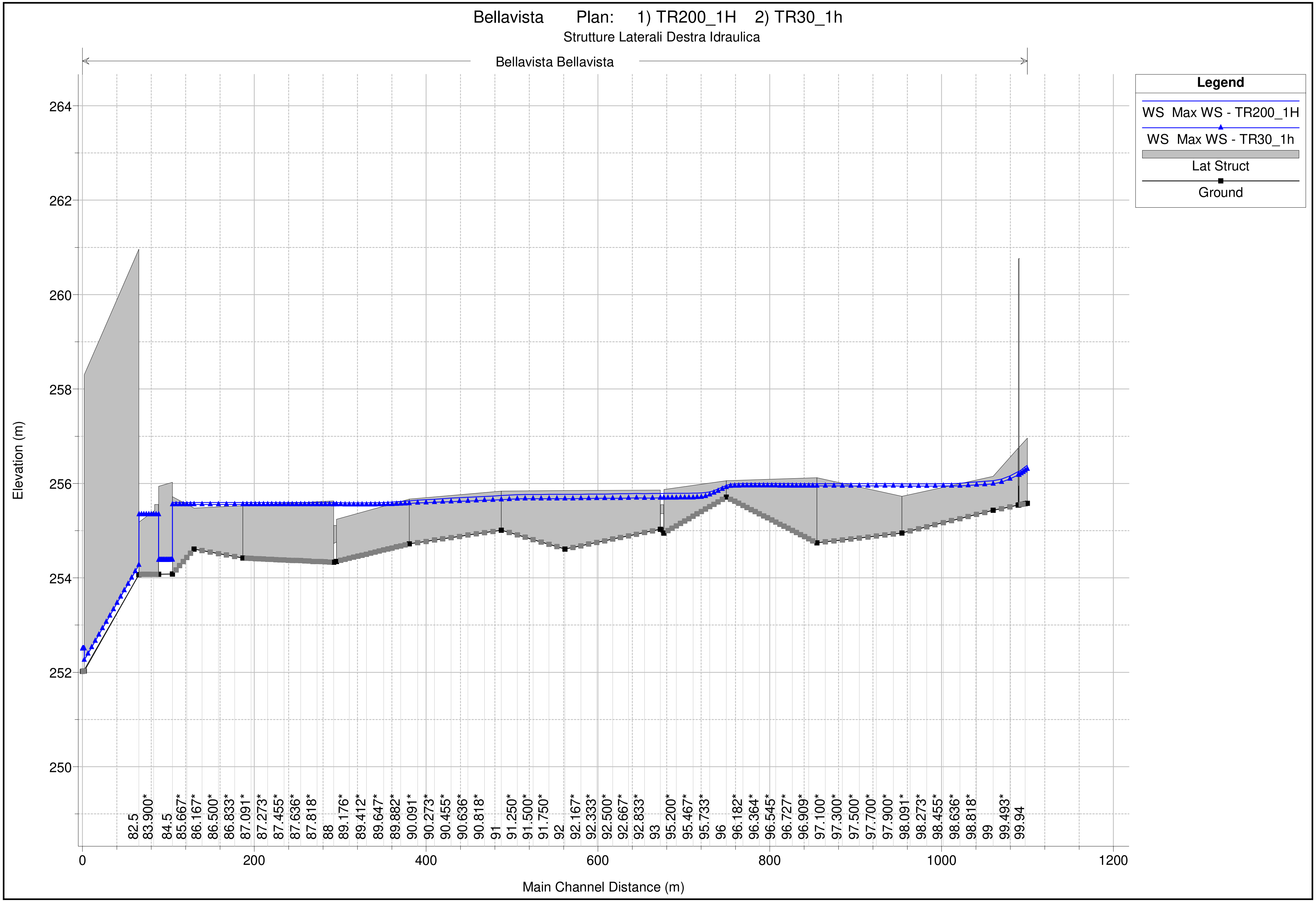
Fosso Ornellaio



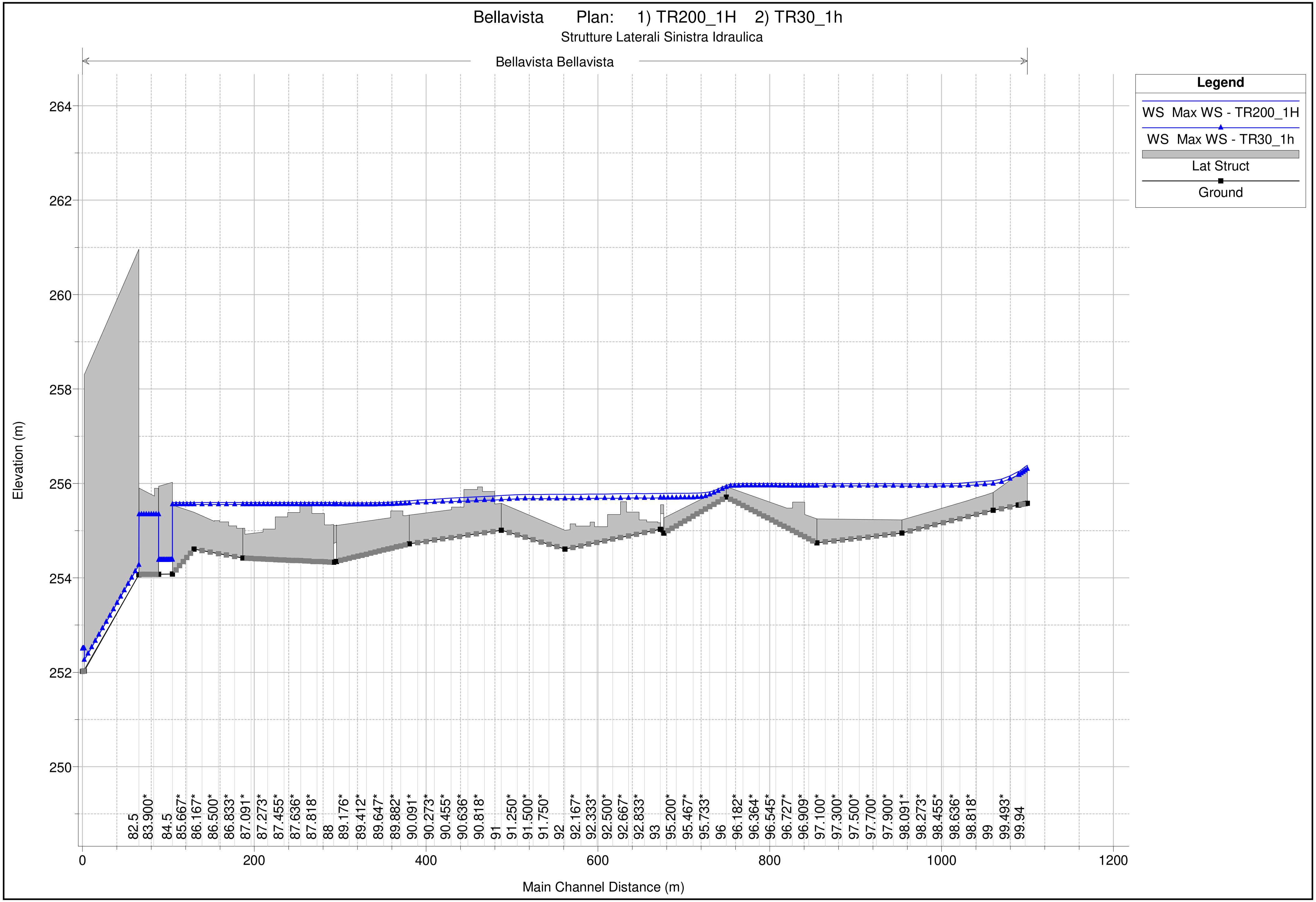
lago_N
100
5.11
98.493*
4.5500*
Ornell
99
4
98.818*
3.5000*
98.455*
98.273*
3
2.3
1.8455*
1.5273*
98
97.800*
97.600*
97.400*
97.200*
97
96.818*
96.636*
96.455*
96.273*
96.091*
95.933*
95.733*
95.533*
A_Nord
95.333*
95.133*
93
92.833*
92.667*
92.500*
92.333*
92.167*
92
91.750*
91.500*
A_SUD
91.250*
91
90.818*
90.636*
90.455*
90.273*
90.091*
89.882*
lago_S2
89.647*
89.412*
89.176*
87.955*
87.773*
87.591*
87.409*
87.227*
87.045*
86.833*
86.500*
86.167*
85.833*
85.167*
84.2
83.450*
81
lago_S1
lago_S3

Fosso

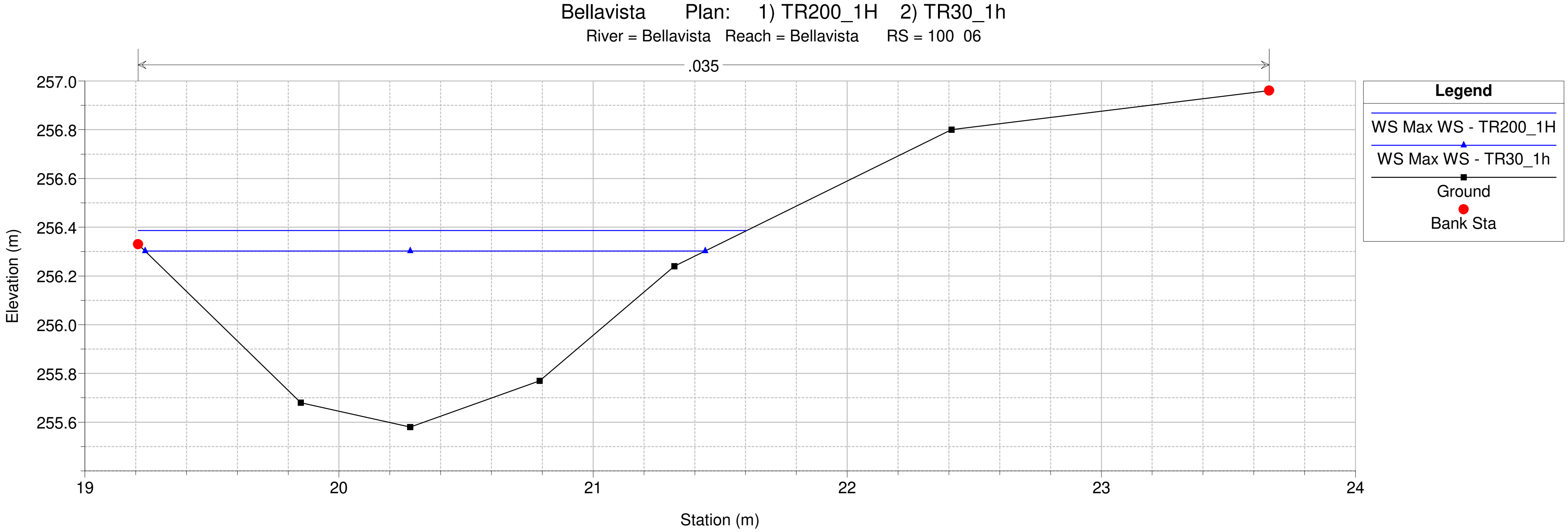
MV16963



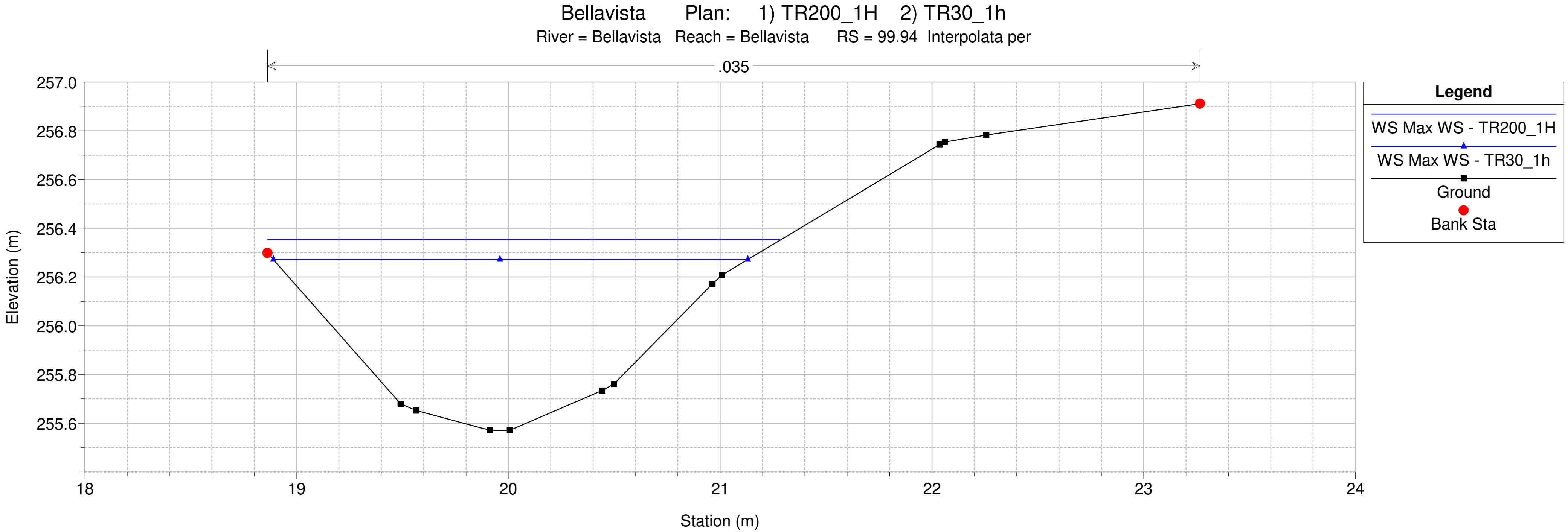
1 cm Horiz. = 55 m 1 cm Vert. = 1 m



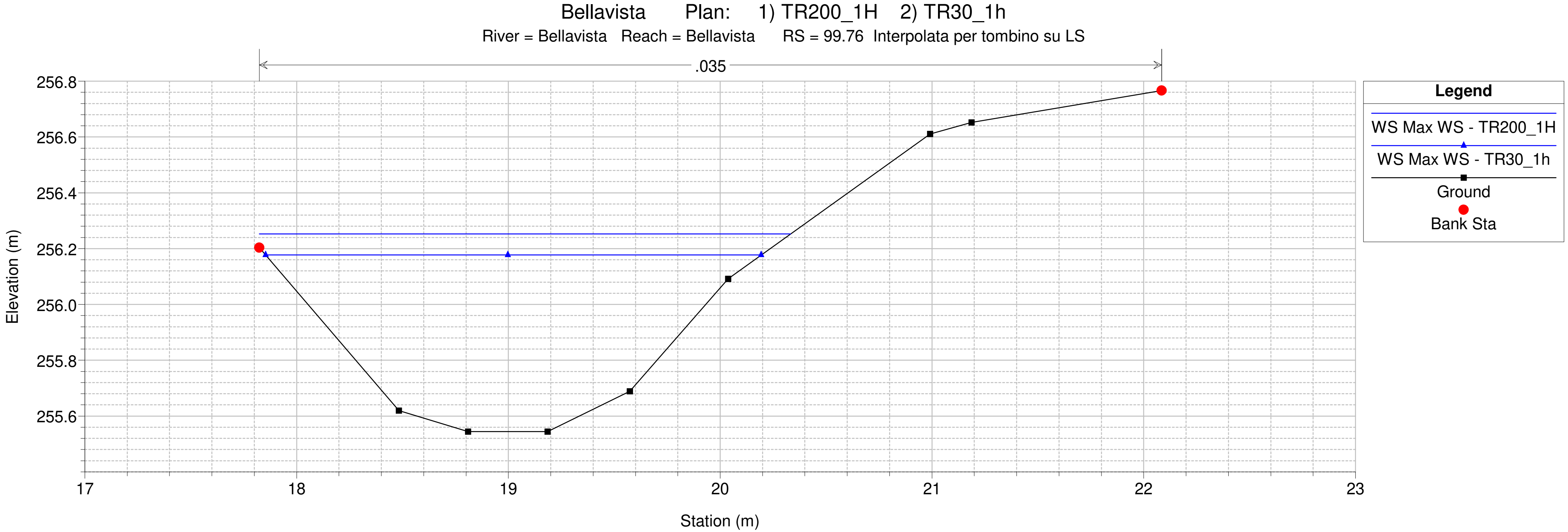
1 cm Horiz. = 55 m 1 cm Vert. = 1 m

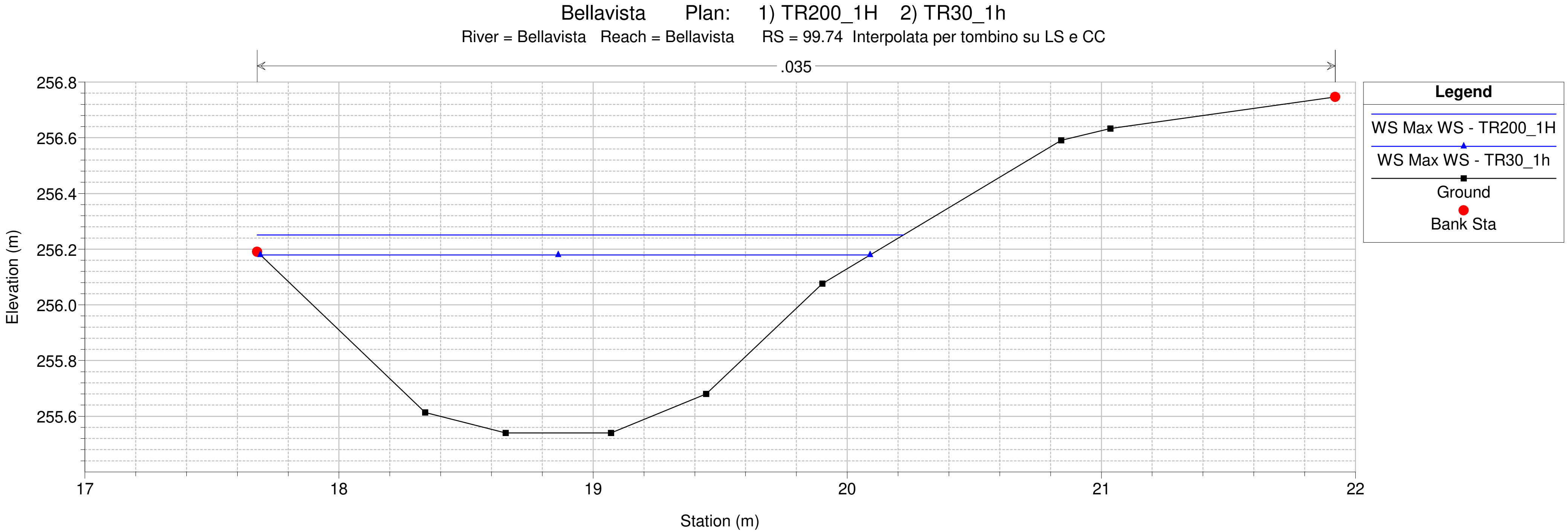


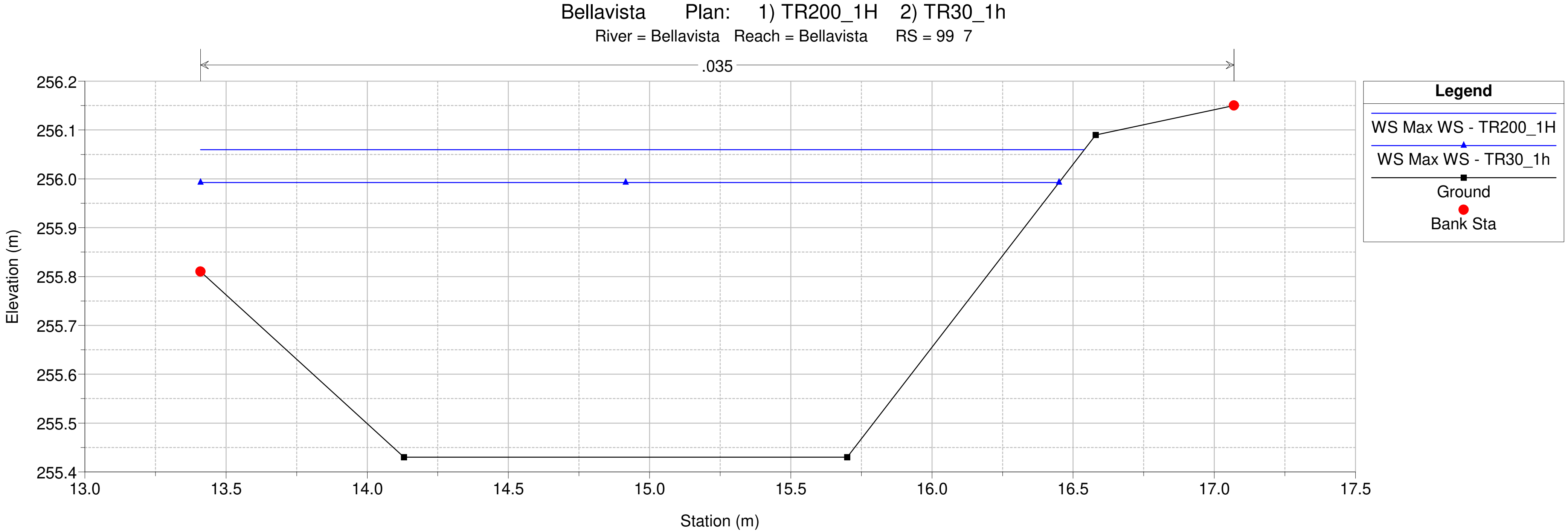
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 100 06
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
Station (m)
257.0
256.8
256.6
256.4
256.2
256.0
255.8
255.6
19
20
21
22
23
24



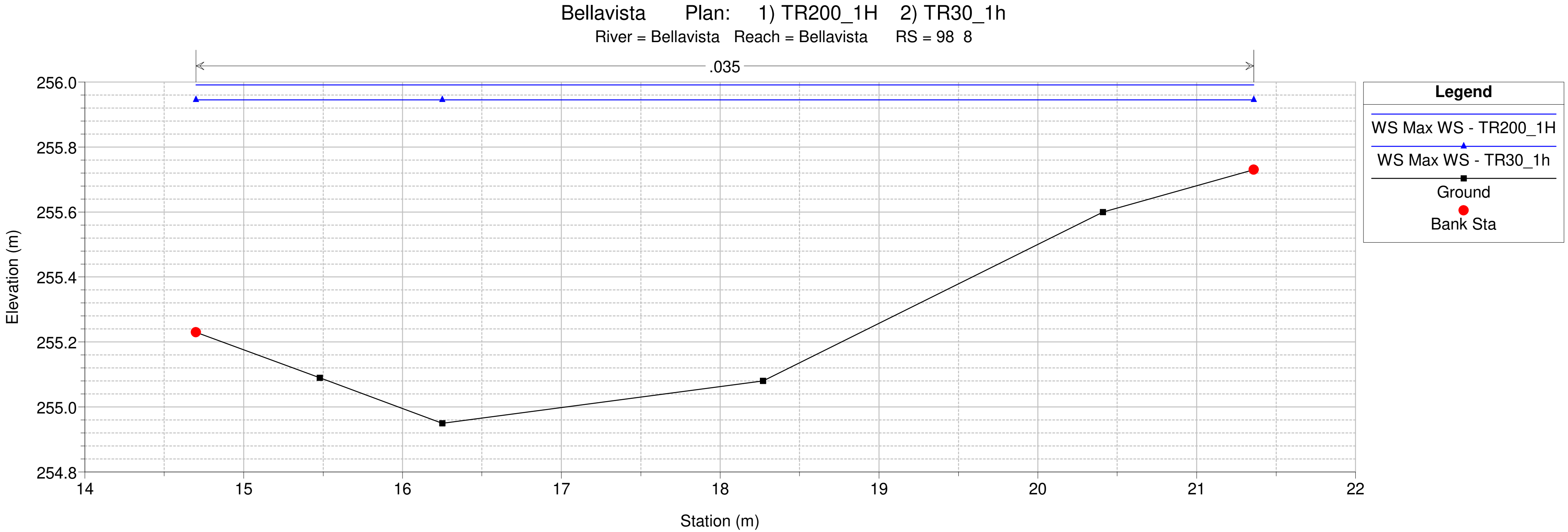
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 99.94 Interpolata per
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
Station (m)
257.0
256.8
256.6
256.4
256.2
256.0
255.8
255.6
18
19
20
21
22
23
24


Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 99.76 Interpolata per tombino su LS
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
256.8
256.6
256.4
256.2
256.0
255.8
255.6
Station (m)
17
18
19
20
21
22
23

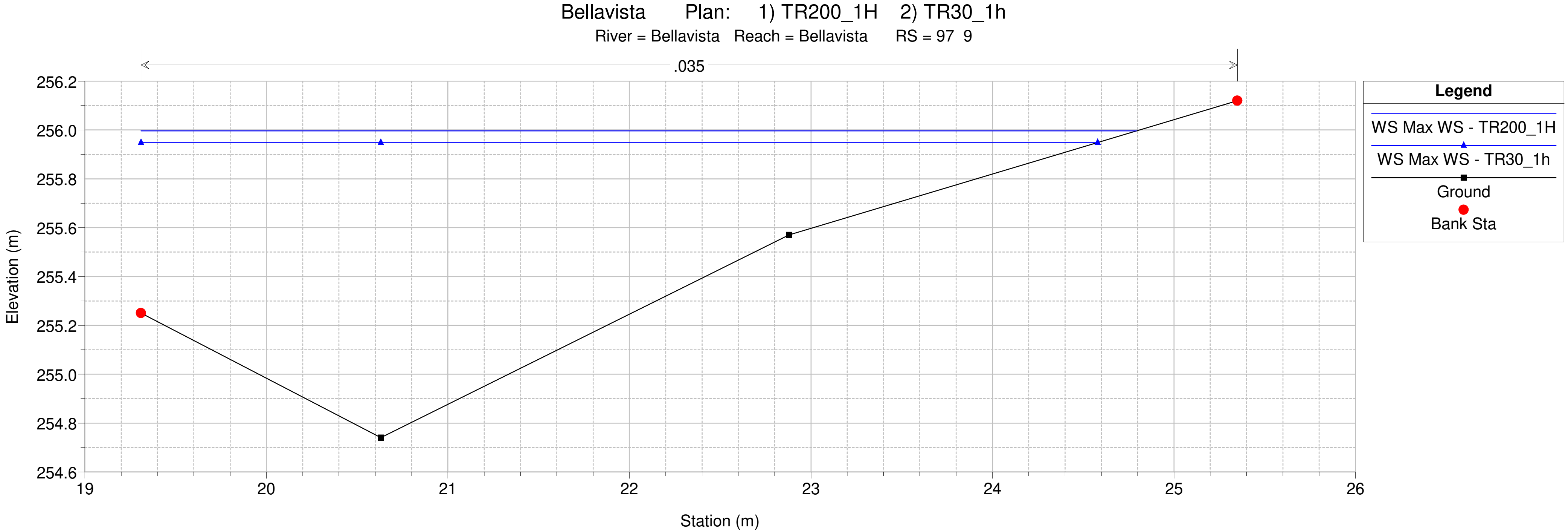

Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 99.74 Interpolata per tombino su LS e CC
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
256.8
256.6
256.4
256.2
256.0
255.8
255.6
Station (m)
17
18
19
20
21
22



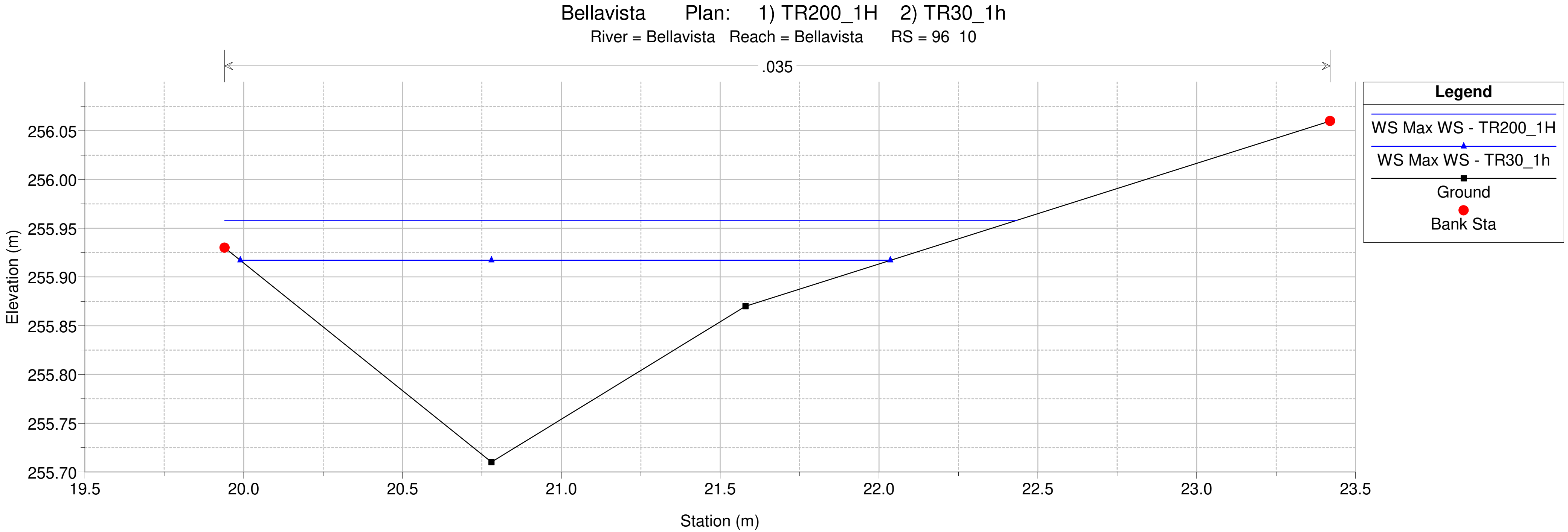
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 99 7
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta



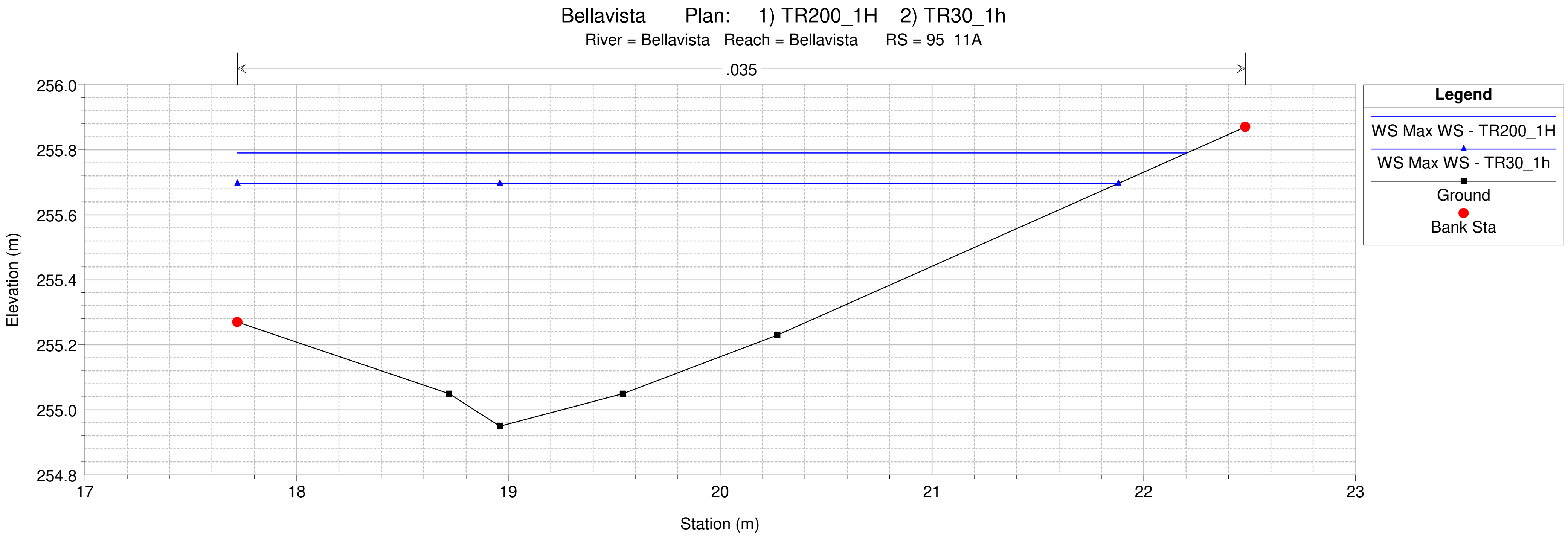
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 98 8
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta

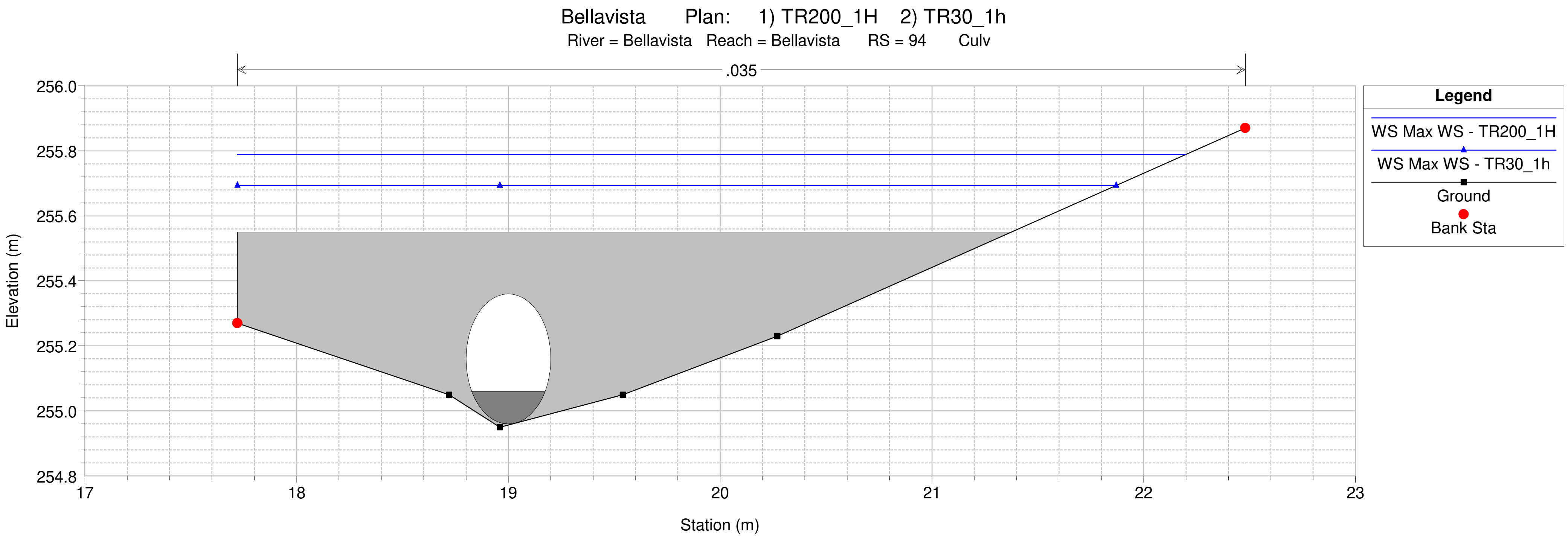


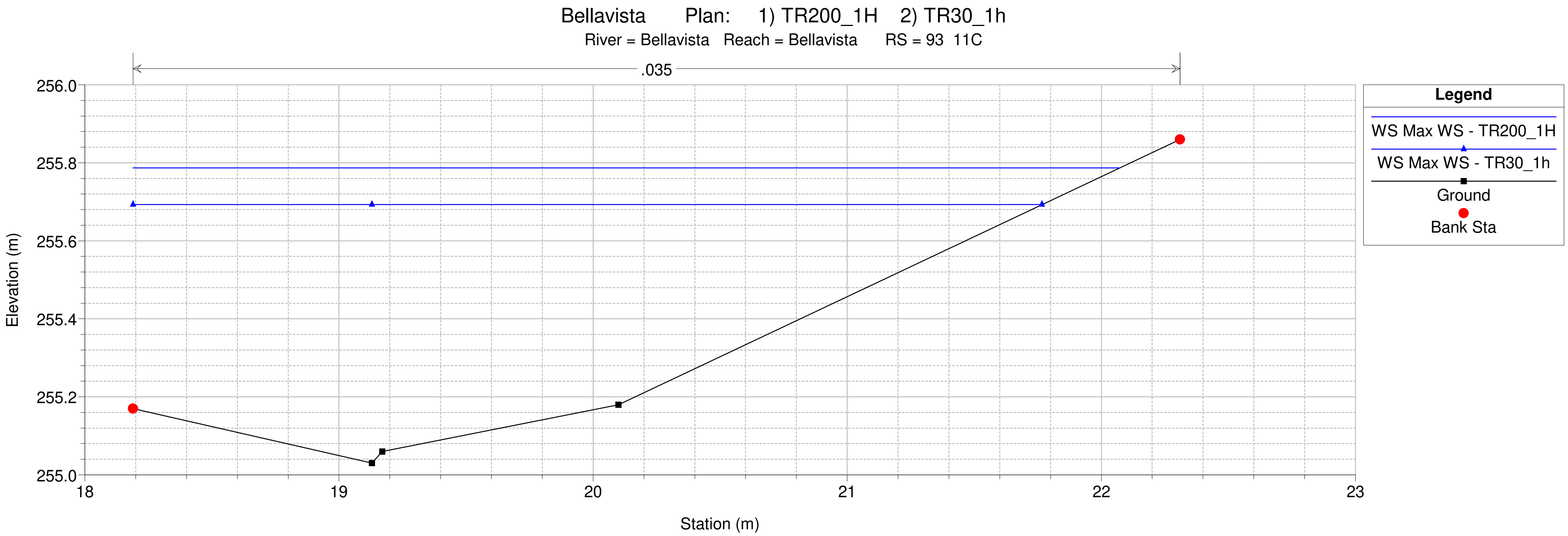
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 97 9
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
Station (m)
256.2
256.0
255.8
255.6
255.4
255.2
255.0
254.8
254.6
19
20
21
22
23
24
25
26



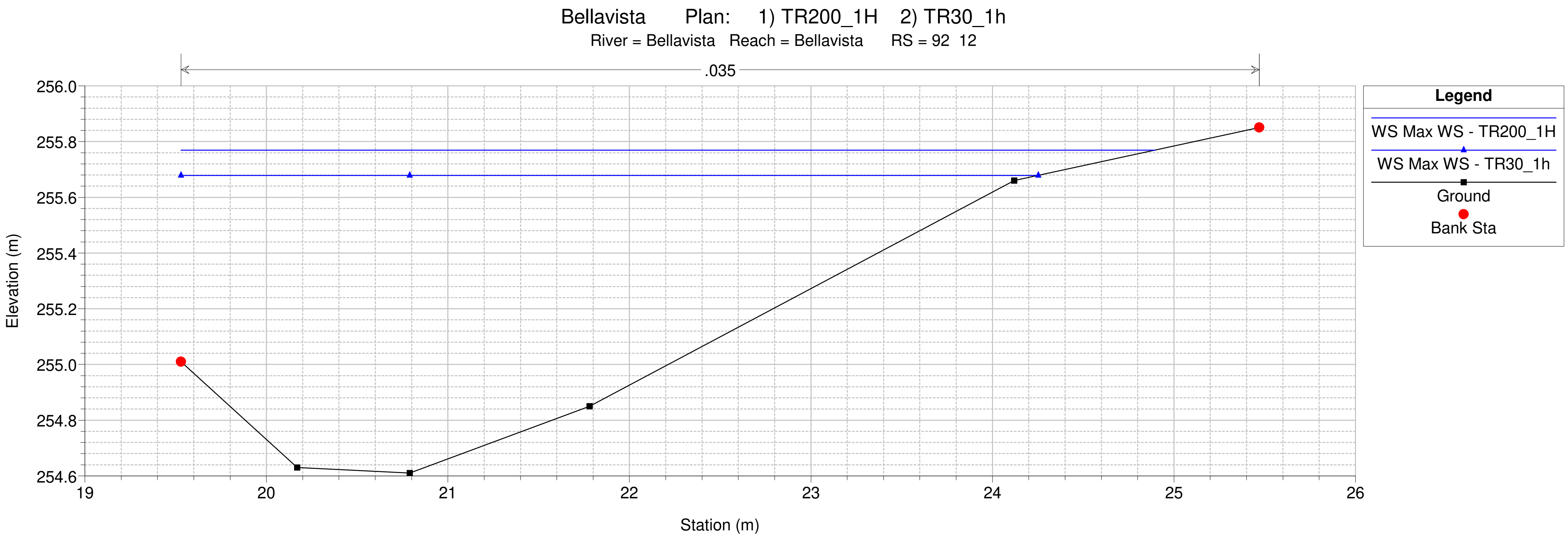
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 96 10
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
Station (m)
256.05
256.00
255.95
255.90
255.85
255.80
255.75
255.70
19.5
20.0
20.5
21.0
21.5
22.0
22.5
23.0
23.5


Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 95 11A
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
256.0
255.8
255.6
255.4
255.2
255.0
254.8
17
18
19
20
21
22
23
Station (m)

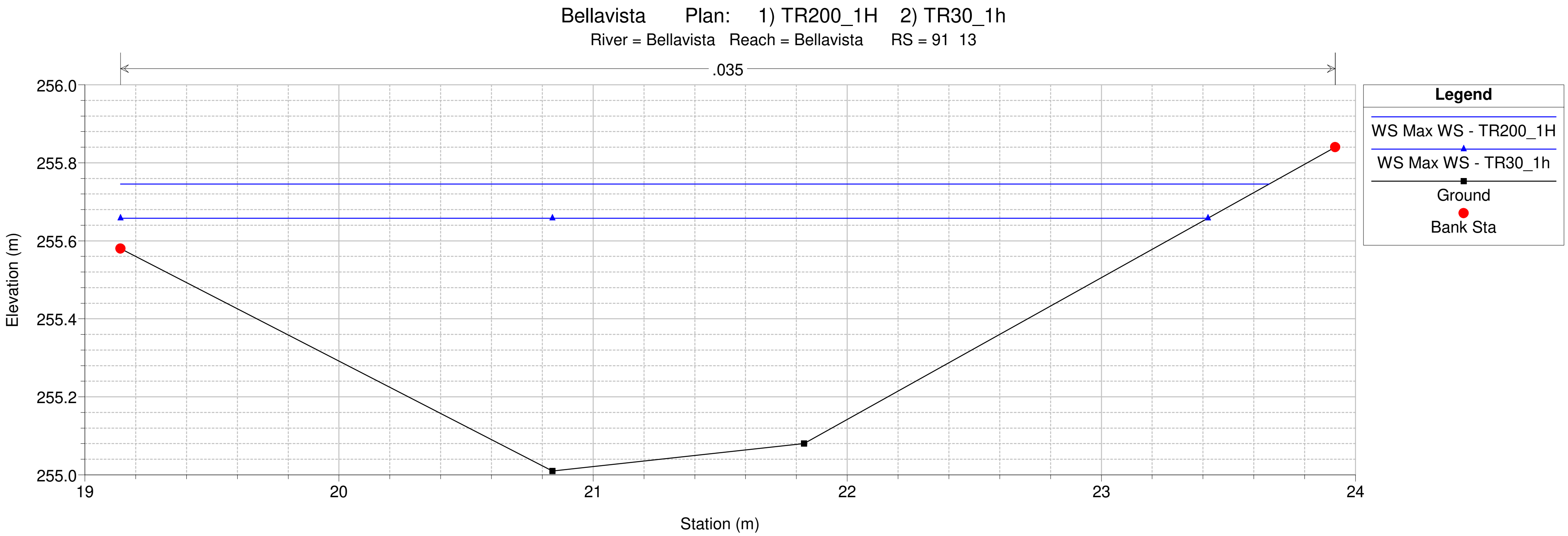

Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 94 Culv
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
256.0
255.8
255.6
255.4
255.2
255.0
254.8
17
18
19
20
21
22
23
Station (m)

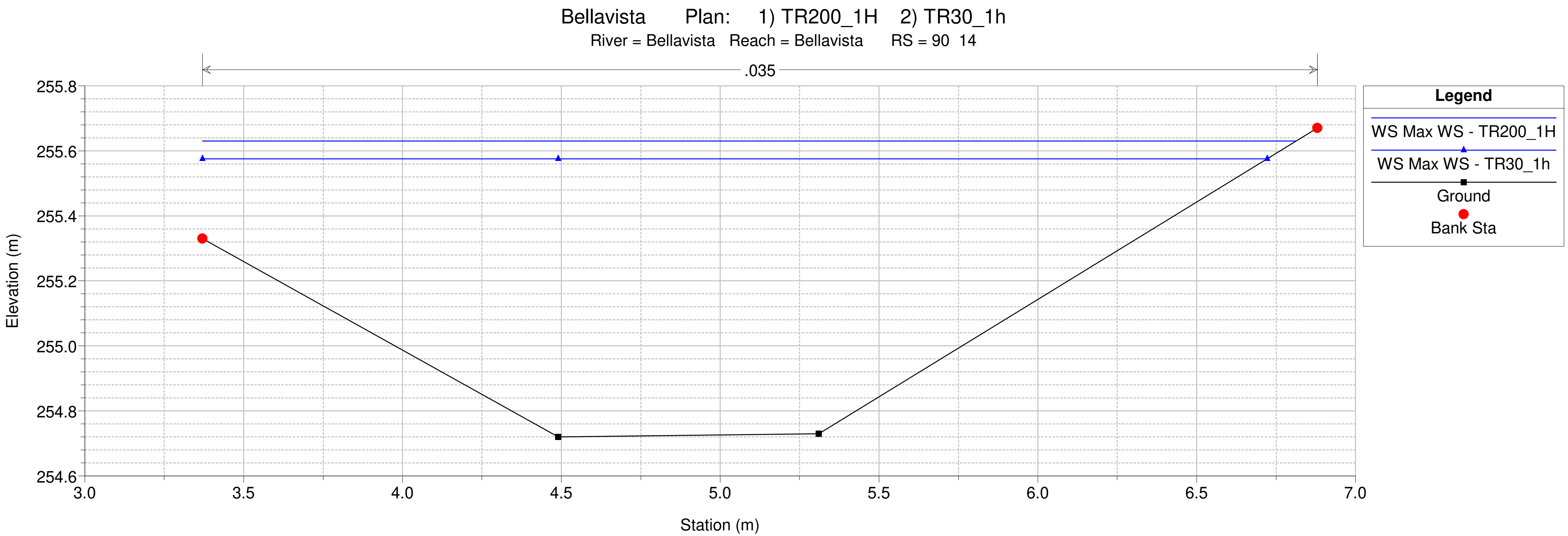


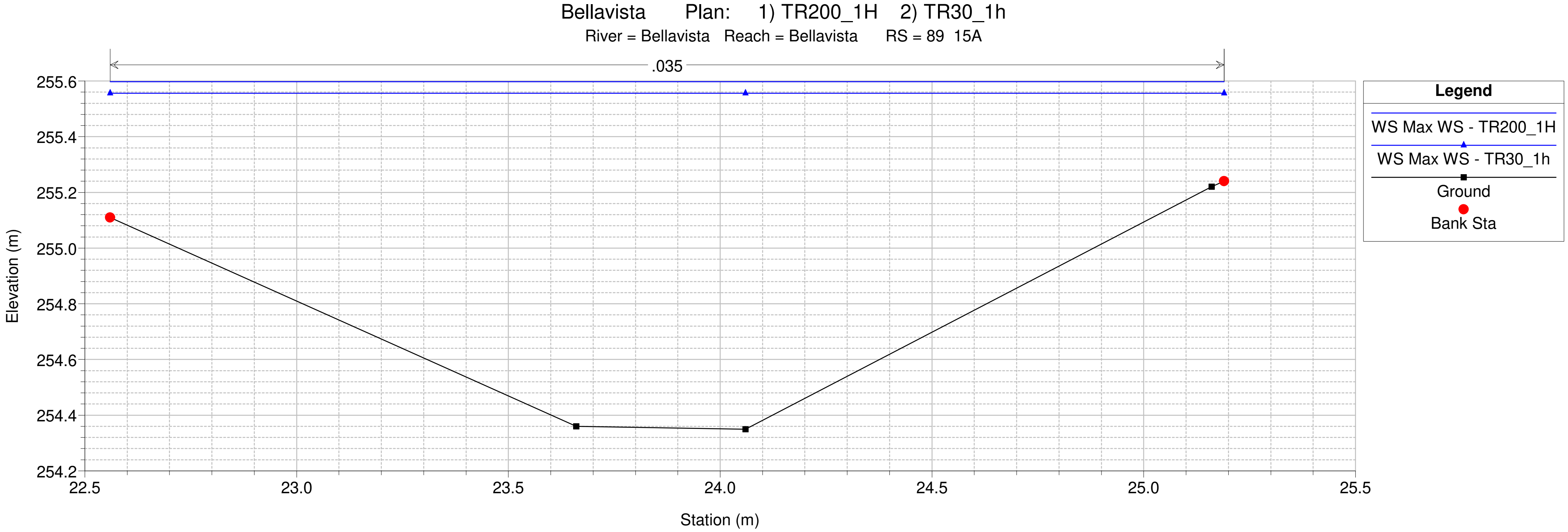
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 93 11C
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
Station (m)
256.0
255.8
255.6
255.4
255.2
255.0
18
19
20
21
22
23



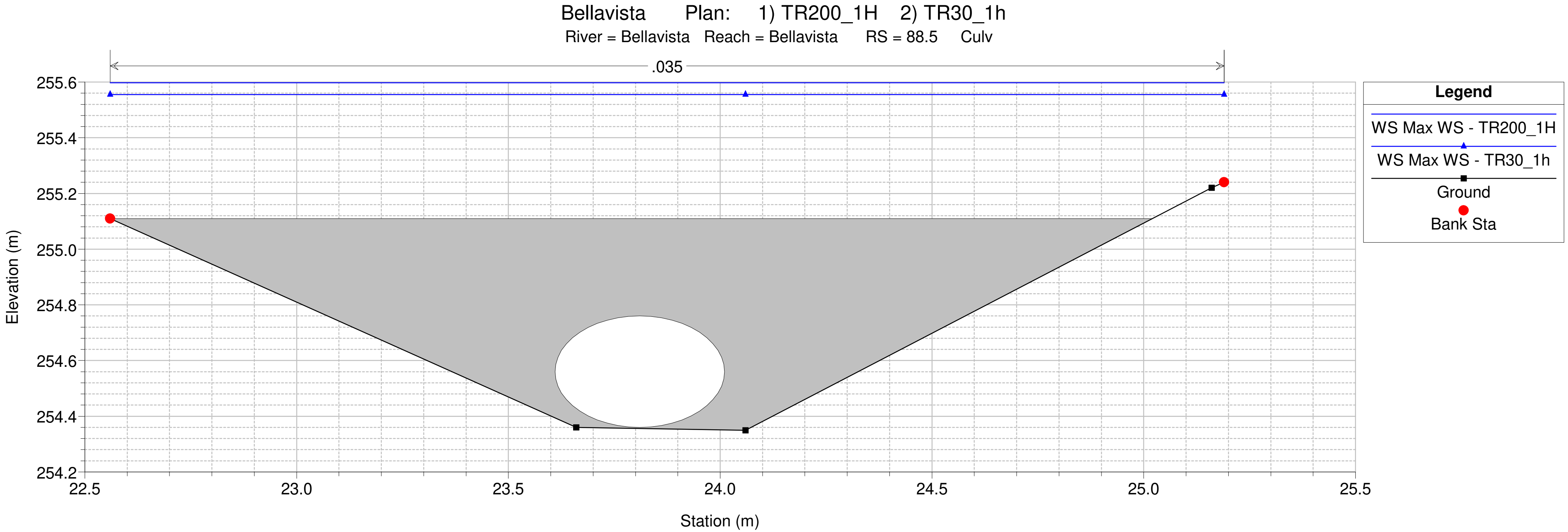
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 92 12
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta
Elevation (m)
Station (m)
256.0
255.8
255.6
255.4
255.2
255.0
254.8
254.6
19
20
21
22
23
24
25
26


Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 91 13
.035
Elevation (m)
Station (m)
256.0
255.8
255.6
255.4
255.2
255.0
19
20
21
22
23
24
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta

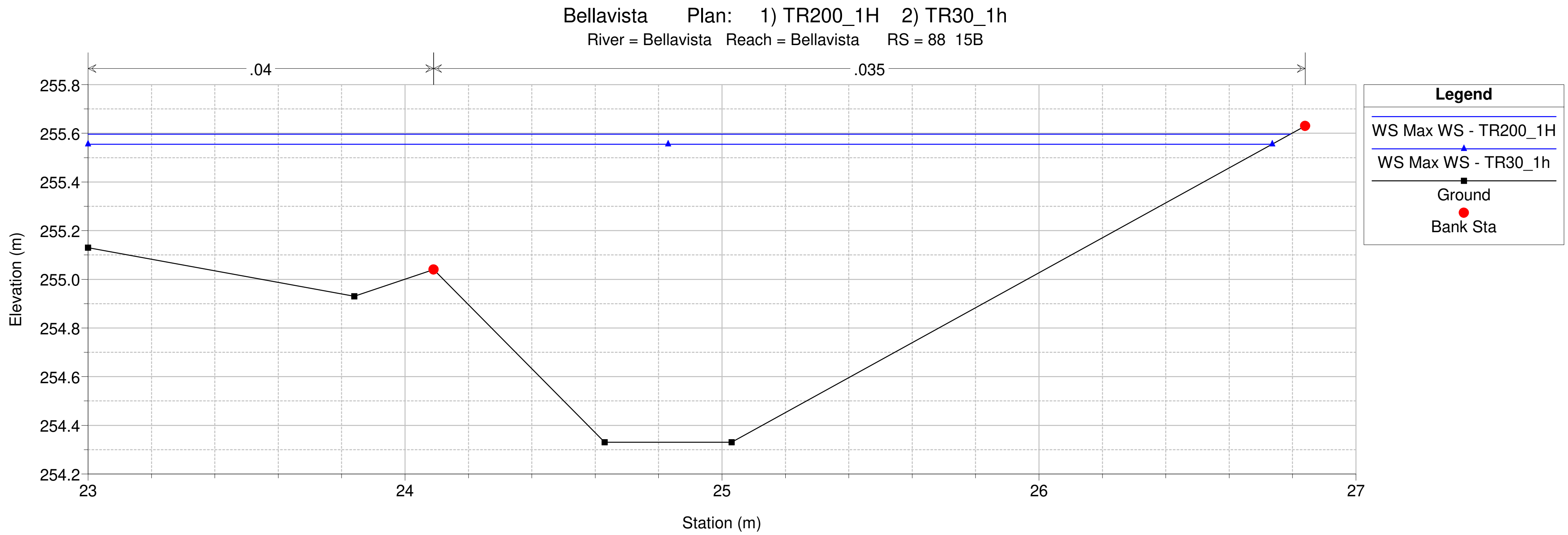

Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 90 14
.035
Elevation (m)
Station (m)
255.8
255.6
255.4
255.2
255.0
254.8
254.6
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta



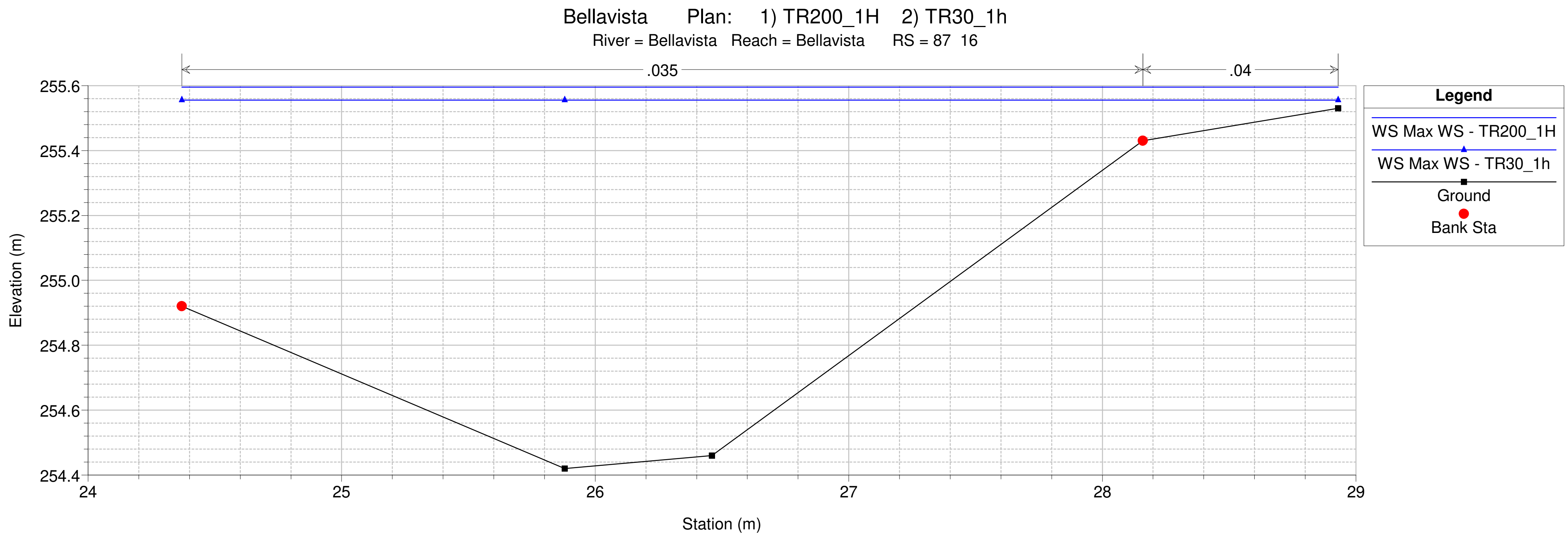
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 89 15A
.035
Elevation (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
254.2
22.5
23.0
23.5
24.0
24.5
25.0
25.5
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta



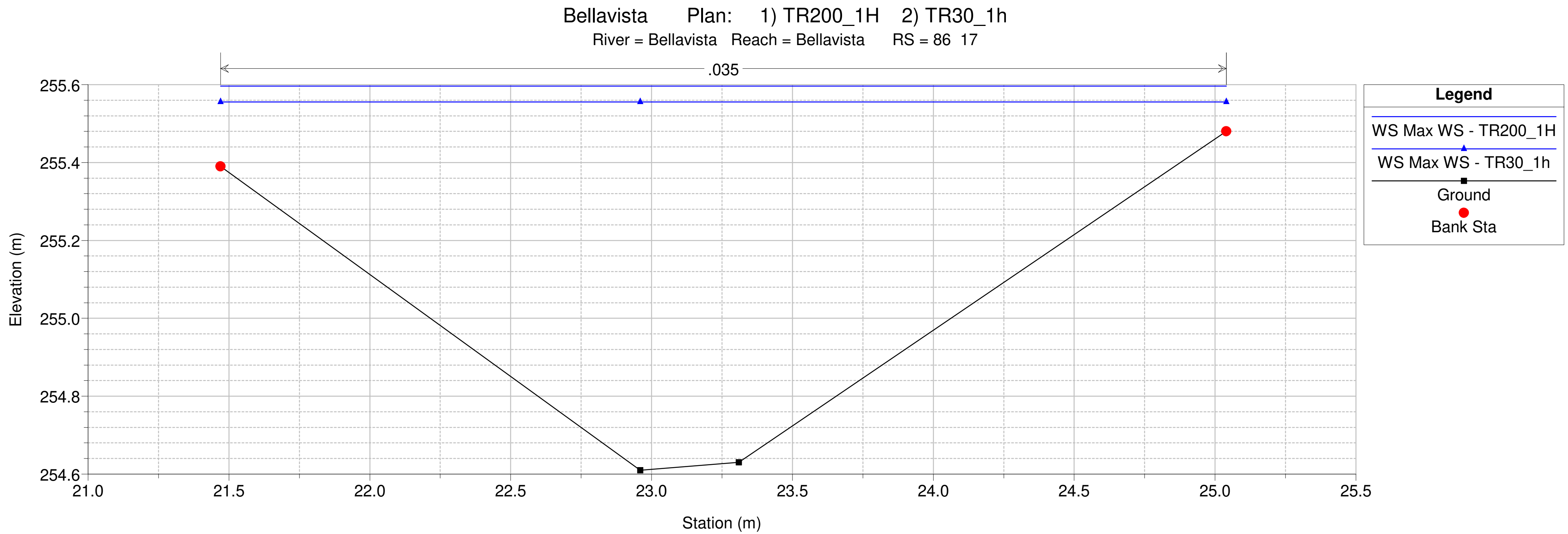
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 88.5 Culv
.035
Elevation (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
254.2
22.5
23.0
23.5
24.0
24.5
25.0
25.5
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta



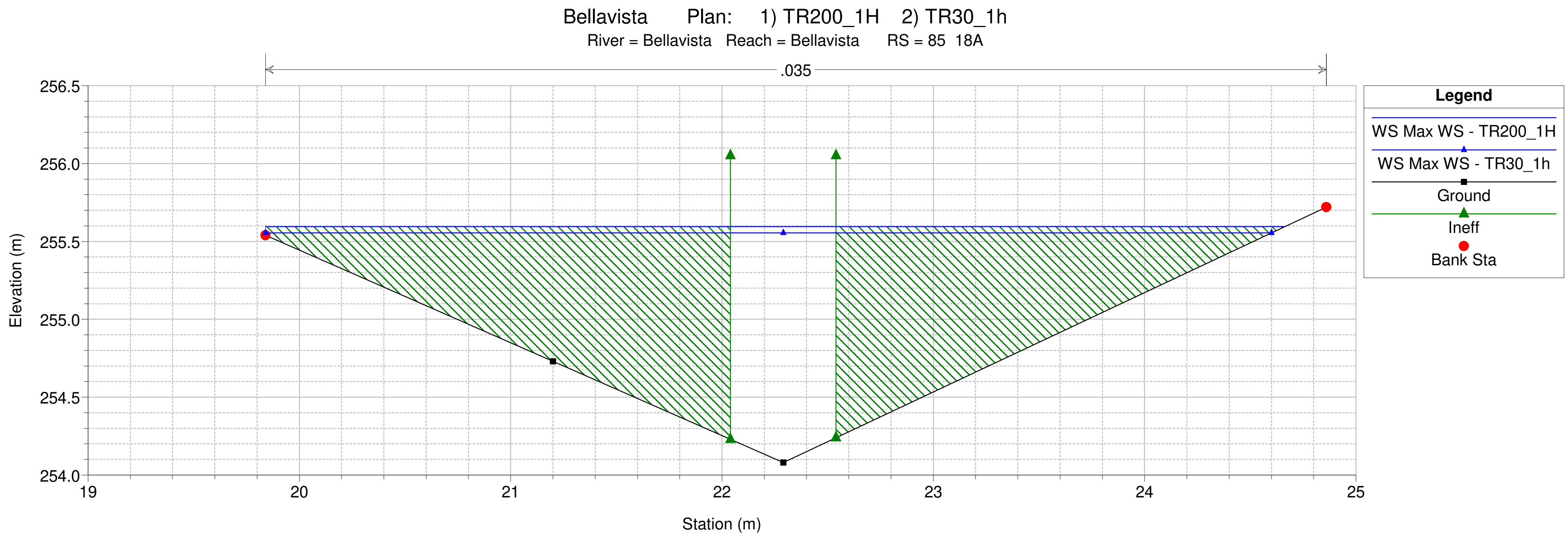
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 88 15B
.04
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta



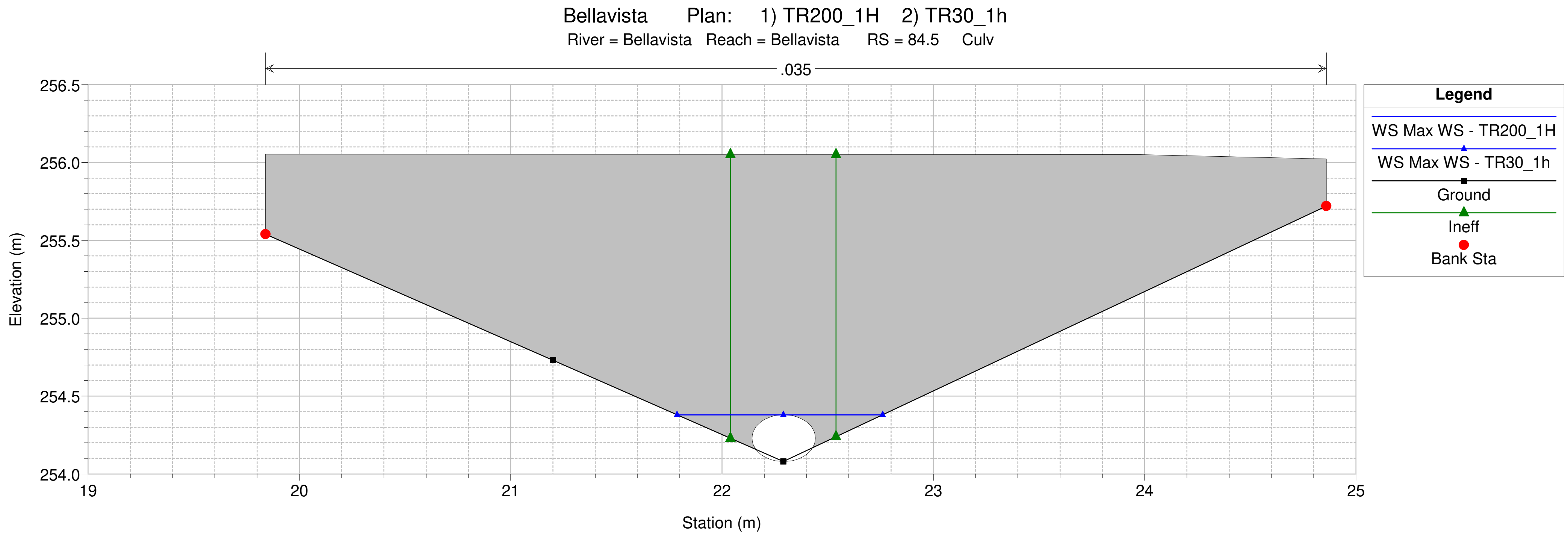
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 87 16
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta



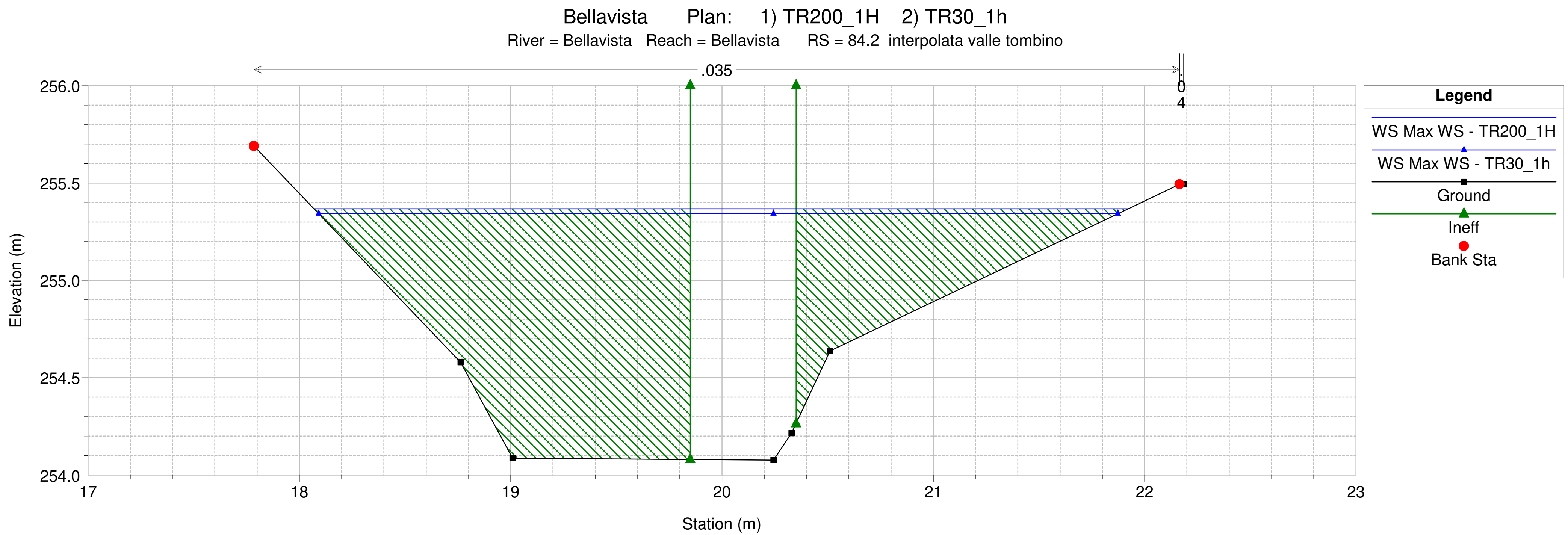
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 86 17
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta



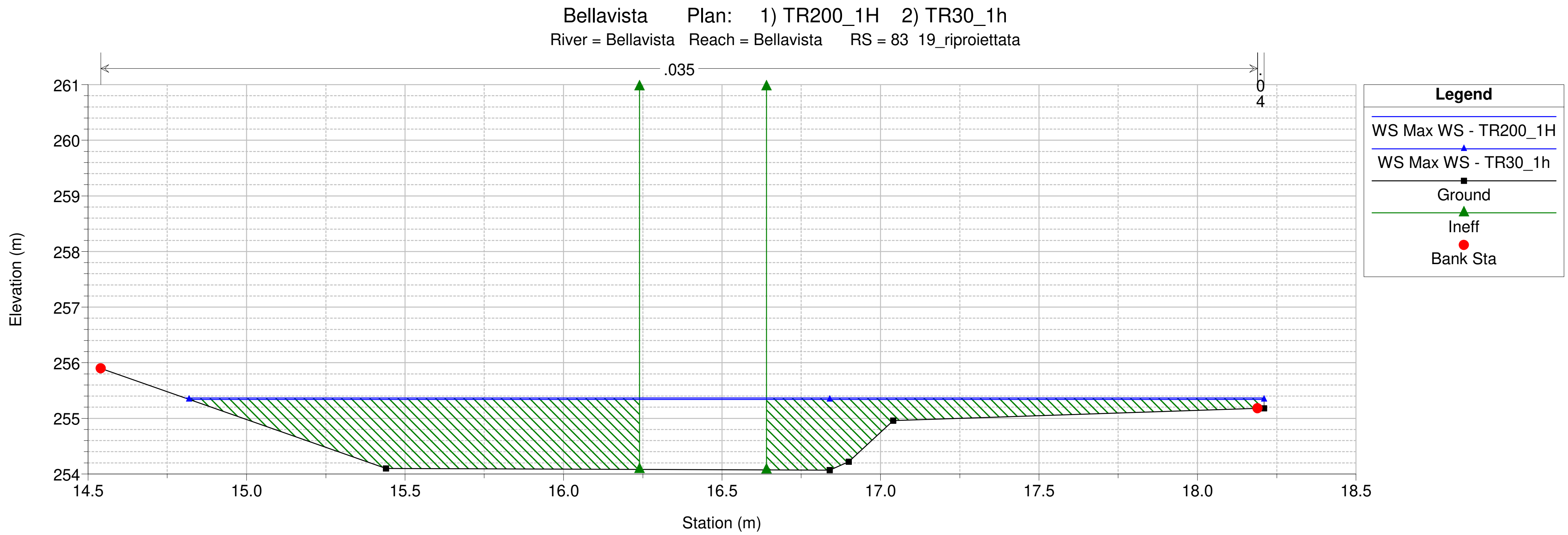
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 85 18A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Ineff
Bank Sta



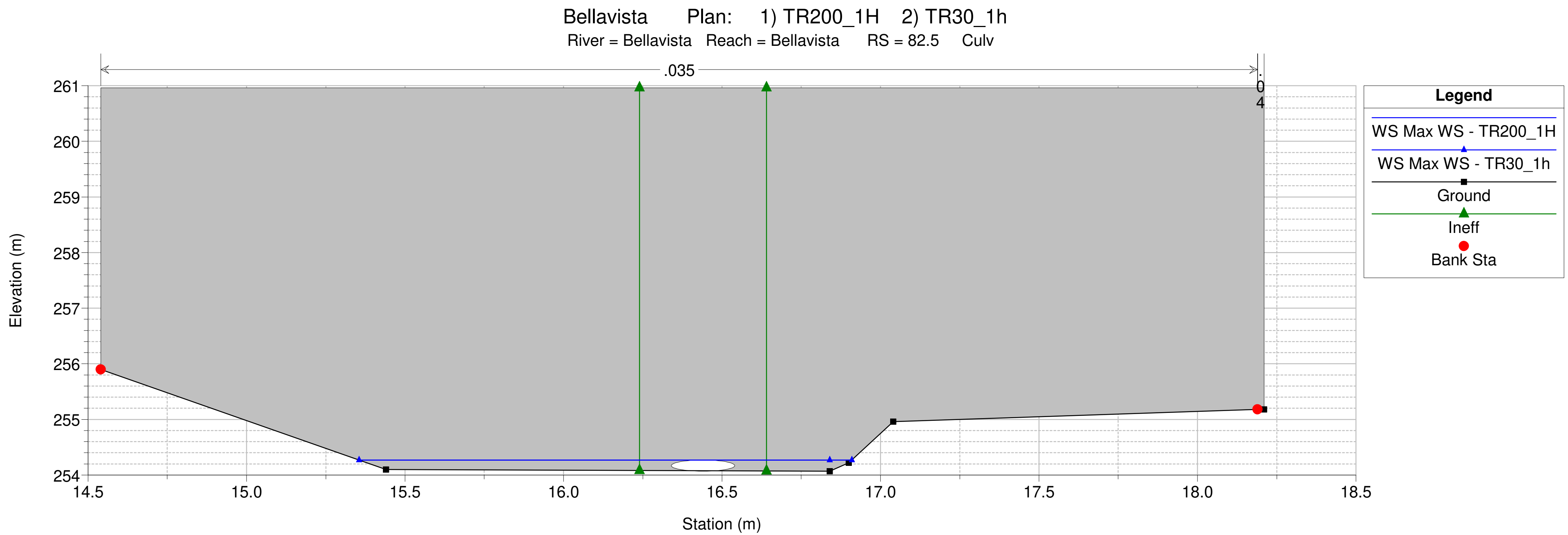
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 84.5 Culv
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Ineff
Bank Sta



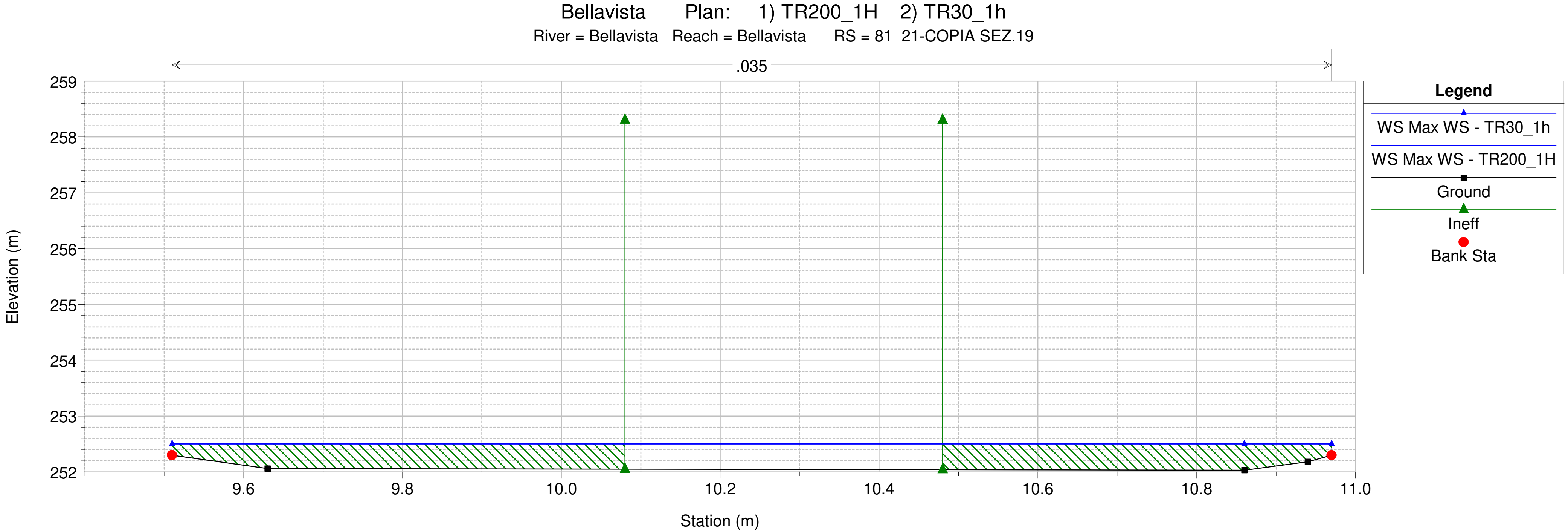
Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 84.2 interpolata valle tombino
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Ineff
Bank Sta

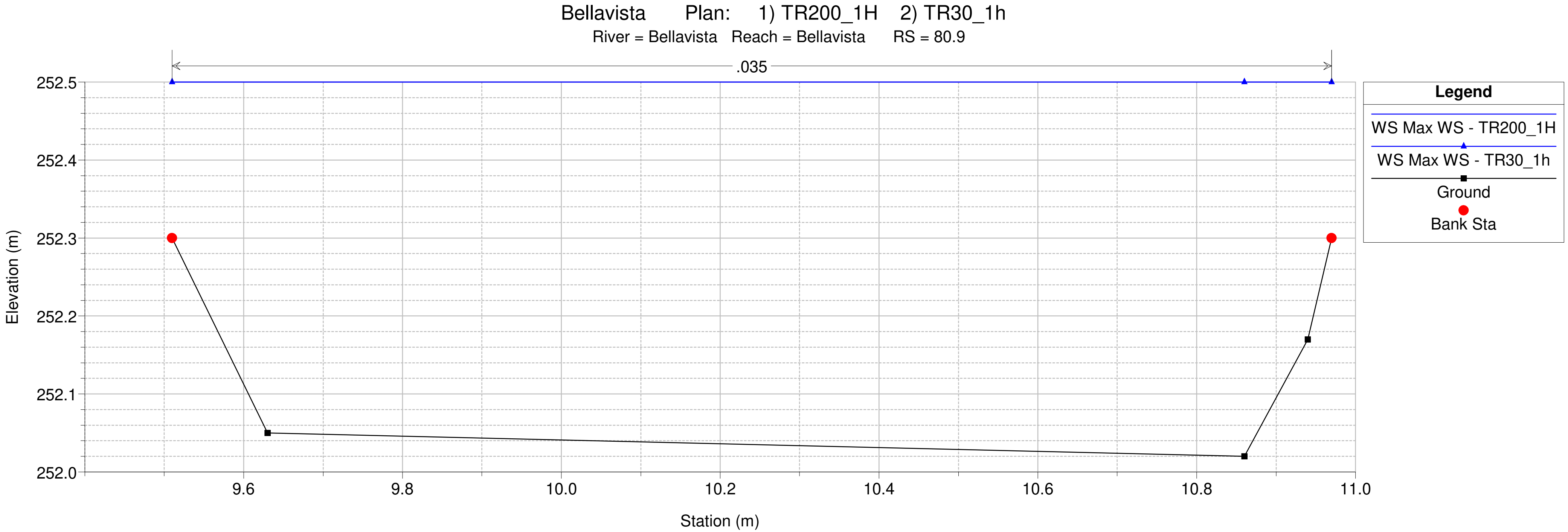


Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 83 19_riproiettata
.035
.
0
4
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Ineff
Bank Sta
Elevation (m)
261
260
259
258
257
256
255
254
14.5
15.0
15.5
16.0
16.5
17.0
17.5
18.0
18.5
Station (m)



Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 82.5 Culv
.035
.
0
4
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Ineff
Bank Sta
Elevation (m)
261
260
259
258
257
256
255
254
14.5
15.0
15.5
16.0
16.5
17.0
17.5
18.0
18.5
Station (m)


Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 81 21-COPIA SEZ.19
.035
Elevation (m)
259
258
257
256
255
254
253
252
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
Station (m)
Legend
WS Max WS - TR30_1h
WS Max WS - TR200_1H
Ground
Ineff
Bank Sta


Bellavista Plan: 1) TR200_1H 2) TR30_1h
River = Bellavista Reach = Bellavista RS = 80.9
.035
Elevation (m)
252.5
252.4
252.3
252.2
252.1
252.0
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1h
Ground
Bank Sta

HEC-RAS River: Bellavista Reach: Bellavista Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Bellavista	100	Max WS	TR200_30min	3.19	255.58	256.52		256.75	0.017070	2.15	1.48	2.65	0.92
Bellavista	100	Max WS	TR200_45min	2.51	255.58	256.44		256.63	0.015478	1.95	1.28	2.50	0.87
Bellavista	100	Max WS	TR200_1H	2.10	255.58	256.39		256.55	0.014379	1.82	1.15	2.39	0.84
Bellavista	100	Max WS	TR200_2H	1.34	255.58	256.25	256.17	256.38	0.012688	1.56	0.86	2.06	0.77
Bellavista	100	Max WS	TR30_30min	2.42	255.58	256.43		256.62	0.015422	1.93	1.25	2.47	0.87
Bellavista	100	Max WS	TR30_45min	1.91	255.58	256.35		256.51	0.014259	1.77	1.08	2.33	0.83
Bellavista	100	Max WS	TR30_1h	1.59	255.58	256.30		256.44	0.013309	1.65	0.96	2.20	0.80
Bellavista	100	Max WS	TR30_2h	1.01	255.58	256.17		256.28	0.012631	1.45	0.69	1.88	0.76
Bellavista	100	Max WS	TR200_3H	1.03	255.58	256.18	256.10	256.29	0.012162	1.44	0.71	1.90	0.75
Bellavista	100	Max WS	TR30_3H	0.77	255.58	256.11	256.03	256.20	0.011505	1.31	0.59	1.75	0.72
Bellavista	99.99			Lat Struct									
Bellavista	99.98			Lat Struct									
Bellavista	99.94	Max WS	TR200_30min	3.14	255.57	256.48		256.71	0.016750	2.13	1.48	2.66	0.91
Bellavista	99.94	Max WS	TR200_45min	2.49	255.57	256.40		256.60	0.015245	1.94	1.28	2.52	0.87
Bellavista	99.94	Max WS	TR200_1H	2.09	255.57	256.35		256.52	0.014187	1.81	1.16	2.42	0.84
Bellavista	99.94	Max WS	TR200_2H	1.34	255.57	256.22	256.14	256.35	0.012509	1.55	0.86	2.10	0.77
Bellavista	99.94	Max WS	TR30_30min	2.40	255.57	256.39		256.58	0.015245	1.92	1.25	2.50	0.87
Bellavista	99.94	Max WS	TR30_45min	1.91	255.57	256.32		256.48	0.014217	1.77	1.08	2.36	0.84
Bellavista	99.94	Max WS	TR30_1h	1.59	255.57	256.27		256.41	0.013178	1.65	0.97	2.24	0.80
Bellavista	99.94	Max WS	TR30_2h	1.01	255.57	256.14		256.25	0.012497	1.45	0.70	1.91	0.76
Bellavista	99.94	Max WS	TR200_3H	1.03	255.57	256.15	256.08	256.26	0.011913	1.43	0.72	1.93	0.75
Bellavista	99.94	Max WS	TR30_3H	0.77	255.57	256.09	256.01	256.17	0.011203	1.29	0.60	1.79	0.72
Bellavista	99.76	Max WS	TR200_30min	3.00	255.54	256.36		256.59	0.016557	2.09	1.43	2.71	0.92
Bellavista	99.76	Max WS	TR200_45min	2.42	255.54	256.30		256.49	0.015239	1.92	1.26	2.59	0.88
Bellavista	99.76	Max WS	TR200_1H	2.07	255.54	256.25		256.42	0.014353	1.80	1.15	2.51	0.85
Bellavista	99.76	Max WS	TR200_2H	1.34	255.54	256.14	256.07	256.26	0.012565	1.54	0.87	2.22	0.79
Bellavista	99.76	Max WS	TR30_30min	2.35	255.54	256.28		256.47	0.015621	1.92	1.22	2.56	0.89
Bellavista	99.76	Max WS	TR30_45min	1.90	255.54	256.21		256.38	0.015300	1.81	1.05	2.44	0.88
Bellavista	99.76	Max WS	TR30_1h	1.59	255.54	256.18		256.32	0.013513	1.65	0.96	2.34	0.82
Bellavista	99.76	Max WS	TR30_2h	1.01	255.54	256.05		256.16	0.013194	1.46	0.69	1.99	0.79
Bellavista	99.76	Max WS	TR200_3H	1.03	255.54	256.07	256.00	256.17	0.011730	1.41	0.73	2.04	0.75
Bellavista	99.76	Max WS	TR30_3H	0.77	255.54	256.01	255.93	256.09	0.010711	1.26	0.61	1.90	0.71
Bellavista	99.75			Lat Struct									
Bellavista	99.74	Max WS	TR200_30min	2.72	255.54	256.35		256.53	0.013321	1.88	1.45	2.73	0.82
Bellavista	99.74	Max WS	TR200_45min	2.18	255.54	256.29		256.44	0.011677	1.69	1.29	2.62	0.77
Bellavista	99.74	Max WS	TR200_1H	1.84	255.54	256.25		256.38	0.010574	1.56	1.18	2.54	0.73
Bellavista	99.74	Max WS	TR200_2H	1.14	255.54	256.14	256.01	256.22	0.008184	1.26	0.91	2.29	0.64
Bellavista	99.74	Max WS	TR30_30min	2.11	255.54	256.28		256.42	0.012030	1.70	1.24	2.59	0.78
Bellavista	99.74	Max WS	TR30_45min	1.68	255.54	256.22		256.34	0.010683	1.53	1.10	2.49	0.73
Bellavista	99.74	Max WS	TR30_1h	1.38	255.54	256.18		256.28	0.009328	1.38	1.00	2.40	0.68
Bellavista	99.74	Max WS	TR30_2h	0.84	255.54	256.07		256.13	0.007402	1.13	0.75	2.07	0.60
Bellavista	99.74	Max WS	TR200_3H	0.86	255.54	256.08	255.95	256.14	0.007057	1.11	0.77	2.10	0.58
Bellavista	99.74	Max WS	TR30_3H	0.63	255.54	256.02	255.88	256.07	0.006028	0.96	0.65	1.96	0.53
Bellavista	99.73			Lat Struct									
Bellavista	99	Max WS	TR200_30min	2.15	255.43	256.08		256.17	0.006322	1.31	1.64	3.16	0.58
Bellavista	99	Max WS	TR200_45min	1.79	255.43	256.07		256.14	0.004586	1.11	1.61	3.15	0.49
Bellavista	99	Max WS	TR200_1H	1.56	255.43	256.06		256.11	0.003786	1.00	1.57	3.13	0.45
Bellavista	99	Max WS	TR200_2H	1.08	255.43	256.00	255.75	256.03	0.002586	0.78	1.38	3.05	0.37
Bellavista	99	Max WS	TR30_30min	1.83	255.43	256.00		256.09	0.007276	1.31	1.40	3.05	0.62
Bellavista	99	Max WS	TR30_45min	1.58	255.43	255.99		256.06	0.006022	1.17	1.34	3.03	0.56
Bellavista	99	Max WS	TR30_1h	1.30	255.43	255.99		256.04	0.003944	0.96	1.36	3.04	0.46
Bellavista	99	Max WS	TR30_2h	0.84	255.43	255.96		255.98	0.002099	0.67	1.25	2.99	0.33
Bellavista	99	Max WS	TR200_3H	0.84	255.43	255.96	255.71	255.99	0.001985	0.66	1.28	3.00	0.32
Bellavista	99	Max WS	TR30_3H	0.64	255.43	255.93	255.67	255.95	0.001438	0.54	1.18	2.96	0.27
Bellavista	98.98			Lat Struct									
Bellavista	98	Max WS	TR200_30min	0.63	254.95	255.97		255.97	0.000037	0.13	4.95	6.66	0.05
Bellavista	98	Max WS	TR200_45min	0.91	254.95	255.99		255.99	0.000069	0.18	5.08	6.66	0.07
Bellavista	98	Max WS	TR200_1H	0.95	254.95	255.99		255.99	0.000076	0.19	5.07	6.66	0.07
Bellavista	98	Max WS	TR200_2H	0.63	254.95	255.96	255.19	255.96	0.000039	0.13	4.86	6.66	0.05
Bellavista	98	Max WS	TR30_30min	0.26	254.95	255.91		255.91	0.000008	0.06	4.55	6.66	0.02
Bellavista	98	Max WS	TR30_45min	0.45	254.95	255.94		255.94	0.000022	0.10	4.71	6.66	0.04
Bellavista	98	Max WS	TR30_1h	0.53	254.95	255.95		255.95	0.000029	0.11	4.76	6.66	0.04
Bellavista	98	Max WS	TR30_2h	0.48	254.95	255.93		255.93	0.000025	0.10	4.67	6.66	0.04
Bellavista	98	Max WS	TR200_3H	0.46	254.95	255.94	255.16	255.94	0.000023	0.10	4.70	6.66	0.04
Bellavista	98	Max WS	TR30_3H	0.31	254.95	255.91	255.13	255.91	0.000011	0.07	4.54	6.66	0.03
Bellavista	97.99			Lat Struct									
Bellavista	97.98			Lat Struct									
Bellavista	97	Max WS	TR200_30min	-0.31	254.74	255.98		255.98	0.000021	-0.09	3.52	5.40	0.03
Bellavista	97	Max WS	TR200_45min	-0.25	254.74	256.00		256.00	0.000012	-0.07	3.63	5.49	0.03
Bellavista	97	Max WS	TR200_1H	-0.23	254.74	256.00		256.00	0.000010	-0.06	3.62	5.48	0.02
Bellavista	97	Max WS	TR200_2H	-0.18	254.74	255.96	254.99	255.96	0.000008	-0.05	3.43	5.32	0.02
Bellavista	97	Max WS	TR30_30min	-0.19	254.74	255.91		255.91	0.000011	-0.06	3.19	5.12	0.02
Bellavista	97	Max WS	TR30_45min	-0.23	254.74	255.94		255.94	0.000013	-0.07	3.32	5.23	0.03
Bellavista	97	Max WS	TR30_1h	-0.20	254.74	255.95		255.95	0.000010	-0.06	3.37	5.27	0.02
Bellavista	97	Max WS	TR30_2h	-0.14	254.74	255.93		255.93	0.000005	-0.04	3.28	5.20	0.02

HEC-RAS River: Bellavista Reach: Bellavista Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Bellavista	97	Max WS	TR200_3H	-0.14	254.74	255.94	254.97	255.94	0.000005	-0.04	3.30	5.22	0.02
Bellavista	97	Max WS	TR30_3H	-0.11	254.74	255.91	254.94	255.91	0.000004	-0.04	3.18	5.11	0.01
Bellavista	96.99			Lat Struct									
Bellavista	96.98			Lat Struct									
Bellavista	96	Max WS	TR200_30min	0.14	255.71	255.95		255.96	0.006914	0.53	0.26	2.38	0.52
Bellavista	96	Max WS	TR200_45min	0.17	255.71	255.96		255.98	0.007536	0.58	0.30	2.53	0.54
Bellavista	96	Max WS	TR200_1H	0.17	255.71	255.96		255.98	0.007769	0.59	0.29	2.49	0.55
Bellavista	96	Max WS	TR200_2H	0.11	255.71	255.93	255.88	255.94	0.007756	0.53	0.21	2.16	0.54
Bellavista	96	Max WS	TR30_30min	0.06	255.71	255.89		255.90	0.007322	0.46	0.14	1.63	0.51
Bellavista	96	Max WS	TR30_45min	0.08	255.71	255.91		255.92	0.006714	0.47	0.18	1.95	0.50
Bellavista	96	Max WS	TR30_1h	0.10	255.71	255.92		255.93	0.007477	0.51	0.19	2.05	0.53
Bellavista	96	Max WS	TR30_2h	0.08	255.71	255.90		255.91	0.008160	0.50	0.16	1.78	0.54
Bellavista	96	Max WS	TR200_3H	0.09	255.71	255.90	255.86	255.92	0.008357	0.52	0.17	1.85	0.55
Bellavista	96	Max WS	TR30_3H	0.06	255.71	255.88	255.84	255.89	0.008448	0.49	0.13	1.52	0.54
Bellavista	95.99			Lat Struct									
Bellavista	95.98			Lat Struct									
Bellavista	95	Max WS	TR200_30min	0.21	254.95	255.74		255.74	0.000042	0.10	2.06	4.30	0.05
Bellavista	95	Max WS	TR200_45min	0.22	254.95	255.78		255.78	0.000037	0.10	2.23	4.44	0.05
Bellavista	95	Max WS	TR200_1H	0.18	254.95	255.79		255.79	0.000022	0.08	2.30	4.48	0.04
Bellavista	95	Max WS	TR200_2H	0.19	254.95	255.76		255.76	0.000030	0.09	2.15	4.37	0.04
Bellavista	95	Max WS	TR30_30min	0.09	254.95	255.65		255.65	0.000012	0.05	1.70	4.00	0.02
Bellavista	95	Max WS	TR30_45min	0.10	254.95	255.68		255.68	0.000012	0.05	1.83	4.11	0.03
Bellavista	95	Max WS	TR30_1h	0.10	254.95	255.70		255.70	0.000011	0.05	1.89	4.16	0.02
Bellavista	95	Max WS	TR30_2h	0.09	254.95	255.69		255.69	0.000010	0.05	1.85	4.13	0.02
Bellavista	95	Max WS	TR200_3H	0.15	254.95	255.72		255.72	0.000022	0.07	1.99	4.24	0.03
Bellavista	95	Max WS	TR30_3H	0.08	254.95	255.65		255.65	0.000010	0.05	1.70	4.00	0.02
Bellavista	94			Culvert									
Bellavista	93	Max WS	TR200_30min	0.21	255.03	255.73		255.73	0.000067	0.12	1.68	3.70	0.06
Bellavista	93	Max WS	TR200_45min	0.22	255.03	255.77		255.77	0.000061	0.12	1.84	3.84	0.06
Bellavista	93	Max WS	TR200_1H	0.16	255.03	255.79		255.79	0.000029	0.09	1.89	3.88	0.04
Bellavista	93	Max WS	TR200_2H	0.18	255.03	255.75	255.21	255.76	0.000046	0.10	1.77	3.78	0.05
Bellavista	93	Max WS	TR30_30min	0.09	255.03	255.64		255.64	0.000020	0.06	1.37	3.41	0.03
Bellavista	93	Max WS	TR30_45min	0.10	255.03	255.68		255.68	0.000020	0.06	1.49	3.53	0.03
Bellavista	93	Max WS	TR30_1h	0.09	255.03	255.69		255.69	0.000015	0.06	1.54	3.58	0.03
Bellavista	93	Max WS	TR30_2h	0.09	255.03	255.68		255.68	0.000018	0.06	1.51	3.54	0.03
Bellavista	93	Max WS	TR200_3H	0.14	255.03	255.72	255.19	255.72	0.000035	0.09	1.63	3.65	0.04
Bellavista	93	Max WS	TR30_3H	0.07	255.03	255.64	255.16	255.64	0.000014	0.05	1.37	3.42	0.03
Bellavista	92.99			Lat Struct									
Bellavista	92.98			Lat Struct									
Bellavista	92	Max WS	TR200_30min	0.43	254.61	255.72		255.72	0.000046	0.13	3.33	5.00	0.05
Bellavista	92	Max WS	TR200_45min	0.54	254.61	255.76		255.76	0.000062	0.15	3.52	5.27	0.06
Bellavista	92	Max WS	TR200_1H	0.56	254.61	255.77		255.77	0.000065	0.16	3.59	5.37	0.06
Bellavista	92	Max WS	TR200_2H	0.46	254.61	255.74	254.88	255.74	0.000047	0.13	3.44	5.16	0.05
Bellavista	92	Max WS	TR30_30min	0.32	254.61	255.63		255.63	0.000033	0.11	2.92	4.51	0.04
Bellavista	92	Max WS	TR30_45min	0.39	254.61	255.66		255.66	0.000042	0.13	3.07	4.62	0.05
Bellavista	92	Max WS	TR30_1h	0.42	254.61	255.68		255.68	0.000048	0.13	3.14	4.72	0.05
Bellavista	92	Max WS	TR30_2h	0.37	254.61	255.67		255.67	0.000038	0.12	3.10	4.66	0.05
Bellavista	92	Max WS	TR200_3H	0.41	254.61	255.70	254.86	255.70	0.000042	0.12	3.26	4.90	0.05
Bellavista	92	Max WS	TR30_3H	0.30	254.61	255.63	254.82	255.63	0.000028	0.10	2.93	4.51	0.04
Bellavista	91	Max WS	TR200_30min	0.73	255.01	255.70		255.70	0.000670	0.40	1.85	4.38	0.20
Bellavista	91	Max WS	TR200_45min	0.82	255.01	255.73		255.74	0.000662	0.41	2.01	4.49	0.20
Bellavista	91	Max WS	TR200_1H	0.89	255.01	255.75		255.75	0.000712	0.43	2.07	4.52	0.20
Bellavista	91	Max WS	TR200_2H	0.81	255.01	255.72	255.35	255.73	0.000708	0.42	1.95	4.45	0.20
Bellavista	91	Max WS	TR30_30min	0.55	255.01	255.61		255.62	0.000715	0.37	1.49	4.15	0.20
Bellavista	91	Max WS	TR30_45min	0.59	255.01	255.64		255.65	0.000637	0.37	1.62	4.24	0.19
Bellavista	91	Max WS	TR30_1h	0.64	255.01	255.66		255.67	0.000672	0.38	1.68	4.28	0.19
Bellavista	91	Max WS	TR30_2h	0.60	255.01	255.65		255.66	0.000626	0.36	1.65	4.26	0.19
Bellavista	91	Max WS	TR200_3H	0.69	255.01	255.68	255.32	255.69	0.000653	0.39	1.79	4.35	0.19
Bellavista	91	Max WS	TR30_3H	0.52	255.01	255.62	255.28	255.62	0.000600	0.34	1.51	4.17	0.18
Bellavista	90.99			Lat Struct									
Bellavista	90.98			Lat Struct									
Bellavista	90	Max WS	TR200_30min	1.09	254.72	255.60		255.61	0.000972	0.55	1.98	3.39	0.23
Bellavista	90	Max WS	TR200_45min	1.24	254.72	255.62		255.64	0.001095	0.60	2.07	3.43	0.25
Bellavista	90	Max WS	TR200_1H	1.28	254.72	255.63		255.65	0.001135	0.61	2.10	3.44	0.25
Bellavista	90	Max WS	TR200_2H	1.16	254.72	255.61	255.16	255.63	0.001009	0.57	2.04	3.42	0.24
Bellavista	90	Max WS	TR30_30min	0.72	254.72	255.54		255.54	0.000564	0.40	1.78	3.29	0.18
Bellavista	90	Max WS	TR30_45min	0.87	254.72	255.56		255.57	0.000721	0.47	1.86	3.33	0.20
Bellavista	90	Max WS	TR30_1h	0.93	254.72	255.58		255.59	0.000767	0.48	1.91	3.35	0.20
Bellavista	90	Max WS	TR30_2h	0.87	254.72	255.57		255.58	0.000689	0.46	1.90	3.35	0.19
Bellavista	90	Max WS	TR200_3H	1.03	254.72	255.59	255.13	255.61	0.000872	0.52	1.96	3.38	0.22
Bellavista	90	Max WS	TR30_3H	0.75	254.72	255.55	255.07	255.56	0.000569	0.41	1.83	3.31	0.18
Bellavista	89.99			Lat Struct									

HEC-RAS River: Bellavista Reach: Bellavista Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Bellavista	89.98			Lat Struct									
Bellavista	89	Max WS	TR200_30min	0.09	254.35	255.57		255.57	0.000004	0.04	2.28	2.63	0.01
Bellavista	89	Max WS	TR200_45min	0.15	254.35	255.59		255.59	0.000011	0.06	2.33	2.63	0.02
Bellavista	89	Max WS	TR200_1H	0.16	254.35	255.60		255.60	0.000012	0.07	2.35	2.63	0.02
Bellavista	89	Max WS	TR200_2H	0.11	254.35	255.59		255.59	0.000006	0.05	2.32	2.63	0.02
Bellavista	89	Max WS	TR30_30min	-0.03	254.35	255.52		255.52	0.000000	-0.01	2.15	2.63	0.00
Bellavista	89	Max WS	TR30_45min	0.01	254.35	255.55		255.55	0.000000	0.00	2.21	2.63	0.00
Bellavista	89	Max WS	TR30_1h	0.02	254.35	255.56		255.56	0.000000	0.01	2.24	2.63	0.00
Bellavista	89	Max WS	TR30_2h	-0.01	254.35	255.55		255.55	0.000000	0.00	2.24	2.63	0.00
Bellavista	89	Max WS	TR200_3H	0.02	254.35	255.57		255.57	0.000000	0.01	2.27	2.63	0.00
Bellavista	89	Max WS	TR30_3H	-0.06	254.35	255.54		255.54	0.000002	-0.03	2.19	2.63	0.01
Bellavista	88.5			Culvert									
Bellavista	88	Max WS	TR200_30min	0.09	254.33	255.57		255.57	0.000003	0.04	2.64	3.75	0.01
Bellavista	88	Max WS	TR200_45min	0.15	254.33	255.59		255.59	0.000009	0.06	2.72	3.78	0.02
Bellavista	88	Max WS	TR200_1H	0.16	254.33	255.60		255.60	0.000009	0.06	2.74	3.79	0.02
Bellavista	88	Max WS	TR200_2H	0.11	254.33	255.58	254.50	255.58	0.000005	0.04	2.70	3.78	0.02
Bellavista	88	Max WS	TR30_30min	-0.04	254.33	255.52		255.52	0.000001	-0.02	2.47	3.69	0.01
Bellavista	88	Max WS	TR30_45min	0.01	254.33	255.54		255.54	0.000000	0.00	2.55	3.72	0.00
Bellavista	88	Max WS	TR30_1h	0.02	254.33	255.56		255.56	0.000000	0.01	2.59	3.74	0.00
Bellavista	88	Max WS	TR30_2h	-0.01	254.33	255.55		255.55	0.000000	0.00	2.59	3.74	0.00
Bellavista	88	Max WS	TR200_3H	0.02	254.33	255.57	254.38	255.57	0.000000	0.01	2.64	3.75	0.00
Bellavista	88	Max WS	TR30_3H	-0.06	254.33	255.54	254.44	255.54	0.000001	-0.02	2.53	3.71	0.01
Bellavista	87.99			Lat Struct									
Bellavista	87.98			Lat Struct									
Bellavista	87	Max WS	TR200_30min	0.16	254.42	255.57		255.57	0.000006	0.05	3.14	4.56	0.02
Bellavista	87	Max WS	TR200_45min	0.21	254.42	255.59		255.59	0.000009	0.06	3.23	4.56	0.02
Bellavista	87	Max WS	TR200_1H	0.21	254.42	255.60		255.60	0.000009	0.07	3.26	4.56	0.02
Bellavista	87	Max WS	TR200_2H	0.17	254.42	255.58	254.60	255.58	0.000006	0.05	3.21	4.56	0.02
Bellavista	87	Max WS	TR30_30min	0.05	254.42	255.52		255.52	0.000001	0.02	2.93	4.51	0.01
Bellavista	87	Max WS	TR30_45min	0.08	254.42	255.55		255.55	0.000002	0.03	3.03	4.56	0.01
Bellavista	87	Max WS	TR30_1h	0.10	254.42	255.56		255.56	0.000002	0.03	3.08	4.56	0.01
Bellavista	87	Max WS	TR30_2h	0.08	254.42	255.55		255.55	0.000001	0.03	3.07	4.56	0.01
Bellavista	87	Max WS	TR200_3H	0.12	254.42	255.57	254.57	255.57	0.000003	0.04	3.13	4.56	0.01
Bellavista	87	Max WS	TR30_3H	0.03	254.42	255.54	254.50	255.54	0.000000	0.01	3.00	4.56	0.00
Bellavista	86.99			Lat Struct									
Bellavista	86.98			Lat Struct									
Bellavista	86	Max WS	TR200_30min	0.06	254.61	255.57		255.57	0.000003	0.03	2.07	3.57	0.01
Bellavista	86	Max WS	TR200_45min	0.04	254.61	255.59		255.59	0.000001	0.02	2.15	3.57	0.01
Bellavista	86	Max WS	TR200_1H	0.04	254.61	255.60		255.60	0.000001	0.02	2.17	3.57	0.01
Bellavista	86	Max WS	TR200_2H	0.06	254.61	255.58	254.73	255.58	0.000002	0.03	2.13	3.57	0.01
Bellavista	86	Max WS	TR30_30min	0.05	254.61	255.52		255.52	0.000003	0.03	1.91	3.57	0.01
Bellavista	86	Max WS	TR30_45min	0.04	254.61	255.55		255.55	0.000001	0.02	1.99	3.57	0.01
Bellavista	86	Max WS	TR30_1h	0.05	254.61	255.56		255.56	0.000002	0.03	2.02	3.57	0.01
Bellavista	86	Max WS	TR30_2h	0.05	254.61	255.56		255.56	0.000002	0.03	2.02	3.57	0.01
Bellavista	86	Max WS	TR200_3H	0.05	254.61	255.57	254.73	255.57	0.000002	0.03	2.07	3.57	0.01
Bellavista	86	Max WS	TR30_3H	0.04	254.61	255.54	254.71	255.54	0.000002	0.02	1.97	3.57	0.01
Bellavista	85	Max WS	TR200_30min	0.09	254.08	255.57		255.57	0.000015	0.13	0.71	4.78	0.03
Bellavista	85	Max WS	TR200_45min	0.09	254.08	255.59		255.59	0.000015	0.12	0.72	4.82	0.03
Bellavista	85	Max WS	TR200_1H	0.09	254.08	255.60		255.60	0.000014	0.12	0.72	4.82	0.03
Bellavista	85	Max WS	TR200_2H	0.09	254.08	255.58		255.58	0.000015	0.13	0.71	4.81	0.03
Bellavista	85	Max WS	TR30_30min	0.08	254.08	255.52		255.52	0.000015	0.12	0.68	4.68	0.03
Bellavista	85	Max WS	TR30_45min	0.09	254.08	255.54		255.55	0.000015	0.13	0.69	4.75	0.03
Bellavista	85	Max WS	TR30_1h	0.09	254.08	255.55		255.56	0.000015	0.12	0.70	4.76	0.03
Bellavista	85	Max WS	TR30_2h	0.09	254.08	255.55		255.56	0.000015	0.13	0.70	4.76	0.03
Bellavista	85	Max WS	TR200_3H	0.09	254.08	255.57		255.57	0.000015	0.13	0.70	4.78	0.03
Bellavista	85	Max WS	TR30_3H	0.09	254.08	255.54		255.54	0.000015	0.12	0.69	4.73	0.03
Bellavista	84.5			Culvert									
Bellavista	84.2	Max WS	TR200_30min	0.06	254.08	255.37		255.37	0.000009	0.09	0.64	3.86	0.03
Bellavista	84.2	Max WS	TR200_45min	0.07	254.08	255.37		255.37	0.000016	0.12	0.64	3.87	0.03
Bellavista	84.2	Max WS	TR200_1H	0.08	254.08	255.37		255.37	0.000020	0.13	0.64	3.85	0.04
Bellavista	84.2	Max WS	TR200_2H	0.09	254.08	255.35	254.24	255.35	0.000024	0.14	0.62	3.79	0.04
Bellavista	84.2	Max WS	TR30_30min	0.06	254.08	255.33		255.33	0.000010	0.09	0.62	3.76	0.03
Bellavista	84.2	Max WS	TR30_45min	0.07	254.08	255.34		255.34	0.000014	0.11	0.62	3.78	0.03
Bellavista	84.2	Max WS	TR30_1h	0.08	254.08	255.34		255.34	0.000018	0.12	0.62	3.78	0.04
Bellavista	84.2	Max WS	TR30_2h	0.09	254.08	255.33		255.33	0.000023	0.14	0.62	3.74	0.04
Bellavista	84.2	Max WS	TR200_3H	0.09	254.08	255.33	254.24	255.33	0.000025	0.14	0.62	3.75	0.04
Bellavista	84.2	Max WS	TR30_3H	0.09	254.08	255.32	254.24	255.32	0.000024	0.14	0.61	3.71	0.04
Bellavista	84.19			Lat Struct									
Bellavista	84.18			Lat Struct									
Bellavista	83	Max WS	TR200_30min	0.07	254.07	255.37		255.37	0.000016	0.14	0.52	3.40	0.04
Bellavista	83	Max WS	TR200_45min	0.07	254.07	255.37		255.37	0.000016	0.14	0.52	3.41	0.04
Bellavista	83	Max WS	TR200_1H	0.07	254.07	255.37		255.37	0.000016	0.14	0.52	3.40	0.04

HEC-RAS River: Bellavista Reach: Bellavista Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Bellavista	83	Max WS	TR200_2H	0.07	254.07	255.35		255.35	0.000017	0.14	0.51	3.39	0.04
Bellavista	83	Max WS	TR30_30min	0.07	254.07	255.33		255.34	0.000018	0.14	0.50	3.39	0.04
Bellavista	83	Max WS	TR30_45min	0.07	254.07	255.34		255.34	0.000017	0.14	0.51	3.39	0.04
Bellavista	83	Max WS	TR30_1h	0.07	254.07	255.34		255.34	0.000017	0.14	0.51	3.39	0.04
Bellavista	83	Max WS	TR30_2h	0.07	254.07	255.33		255.33	0.000018	0.14	0.50	3.38	0.04
Bellavista	83	Max WS	TR200_3H	0.07	254.07	255.33		255.33	0.000018	0.14	0.50	3.39	0.04
Bellavista	83	Max WS	TR30_3H	0.07	254.07	255.32		255.32	0.000018	0.14	0.50	3.38	0.04
Bellavista	82.5			Culvert									
Bellavista	81	Max WS	TR200_30min	0.00	252.03	252.50		252.50	0.000002	0.02	0.18	1.46	0.01
Bellavista	81	Max WS	TR200_45min	0.00	252.03	252.50		252.50	0.000001	0.02	0.18	1.46	0.01
Bellavista	81	Max WS	TR200_1H	0.00	252.03	252.50		252.50	0.000001	0.02	0.18	1.46	0.01
Bellavista	81	Max WS	TR200_2H	0.00	252.03	252.50	252.06	252.50	0.000001	0.02	0.18	1.46	0.01
Bellavista	81	Max WS	TR30_30min	0.00	252.03	252.50		252.50	0.000001	0.02	0.18	1.46	0.01
Bellavista	81	Max WS	TR30_45min	0.00	252.03	252.50		252.50	0.000001	0.02	0.18	1.46	0.01
Bellavista	81	Max WS	TR30_1h	0.01	252.03	252.50		252.50	0.000003	0.03	0.18	1.46	0.01
Bellavista	81	Max WS	TR30_2h	0.00	252.03	252.50		252.50	0.000000	0.01	0.18	1.46	0.00
Bellavista	81	Max WS	TR200_3H	0.01	252.03	252.50	252.08	252.50	0.000006	0.04	0.18	1.46	0.02
Bellavista	81	Max WS	TR30_3H	0.00	252.03	252.50	252.05	252.50	0.000000	0.01	0.18	1.46	0.00
Bellavista	80.9	Max WS	TR200_30min	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR200_45min	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR200_1H	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR200_2H	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR30_30min	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR30_45min	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR30_1h	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR30_2h	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR200_3H	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00
Bellavista	80.9	Max WS	TR30_3H	0.00	252.02	252.50	252.04	252.50	0.000000	0.00	0.65	1.46	0.00

HEC-RAS River: Bellavista Reach: Bellavista Profile: Max WS

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
Bellavista	99.99	Max WS	TR200_30min	3.19	0.00	3.00	0.00					256.77	256.75	256.52	256.59	256.36
Bellavista	99.99	Max WS	TR200_45min	2.51	0.00	2.42	0.00					256.77	256.63	256.44	256.49	256.30
Bellavista	99.99	Max WS	TR200_1H	2.10	0.00	2.07	0.00					256.77	256.55	256.39	256.42	256.25
Bellavista	99.99	Max WS	TR200_2H	1.34	0.00	1.34	0.00					256.77	256.38	256.25	256.26	256.14
Bellavista	99.99	Max WS	TR30_30min	2.42	0.00	2.35	0.00					256.77	256.62	256.43	256.47	256.28
Bellavista	99.99	Max WS	TR30_45min	1.91	0.00	1.90	0.00					256.77	256.51	256.35	256.38	256.21
Bellavista	99.99	Max WS	TR30_1h	1.59	0.00	1.59	0.00					256.77	256.44	256.30	256.32	256.18
Bellavista	99.99	Max WS	TR30_2h	1.01	0.00	1.01	0.00					256.77	256.28	256.17	256.16	256.05
Bellavista	99.99	Max WS	TR200_3H	1.03	0.00	1.03	0.00					256.77	256.29	256.18	256.17	256.07
Bellavista	99.99	Max WS	TR30_3H	0.77	0.00	0.77	0.00					256.77	256.20	256.11	256.09	256.01
Bellavista	99.98	Max WS	TR200_30min	3.19	0.95	2.15	0.95		39.70	0.27	0.19	255.81	256.75	256.52	256.17	256.08
Bellavista	99.98	Max WS	TR200_45min	2.51	0.65	1.79	0.65		39.70	0.26	0.15	255.81	256.63	256.44	256.14	256.07
Bellavista	99.98	Max WS	TR200_1H	2.10	0.46	1.56	0.46		39.70	0.25	0.11	255.81	256.55	256.39	256.11	256.06
Bellavista	99.98	Max WS	TR200_2H	1.34	0.17	1.08	0.17		20.49	0.19	0.09	255.81	256.38	256.25	256.03	256.00
Bellavista	99.98	Max WS	TR30_30min	2.42	0.46	1.83	0.46		39.70	0.19	0.12	255.81	256.62	256.43	256.09	256.00
Bellavista	99.98	Max WS	TR30_45min	1.91	0.24	1.58	0.24		39.70	0.18	0.07	255.81	256.51	256.35	256.06	255.99
Bellavista	99.98	Max WS	TR30_1h	1.59	0.19	1.30	0.19		26.21	0.18	0.08	255.81	256.44	256.30	256.04	255.99
Bellavista	99.98	Max WS	TR30_2h	1.01	0.08	0.84	0.08		13.54	0.15	0.07	255.81	256.28	256.17	255.98	255.96
Bellavista	99.98	Max WS	TR200_3H	1.03	0.09	0.84	0.09		14.72	0.15	0.07	255.81	256.29	256.18	255.99	255.96
Bellavista	99.98	Max WS	TR30_3H	0.77	0.05	0.64	0.05		10.51	0.12	0.06	255.81	256.20	256.11	255.95	255.93
Bellavista	99.75	Max WS	TR200_30min	3.00	0.26	2.72	0.00					260.75	256.58	256.36	256.53	256.35
Bellavista	99.75	Max WS	TR200_45min	2.42	0.24	2.18	0.00					260.75	256.49	256.30	256.44	256.29
Bellavista	99.75	Max WS	TR200_1H	2.07	0.23	1.84	0.00					260.75	256.42	256.25	256.38	256.25
Bellavista	99.75	Max WS	TR200_2H	1.34	0.20	1.14	0.00					260.75	256.26	256.14	256.22	256.14
Bellavista	99.75	Max WS	TR30_30min	2.35	0.24	2.11	0.00					260.75	256.47	256.28	256.42	256.28
Bellavista	99.75	Max WS	TR30_45min	1.90	0.22	1.68	0.00					260.75	256.38	256.21	256.34	256.22
Bellavista	99.75	Max WS	TR30_1h	1.59	0.21	1.38	0.00					260.75	256.32	256.18	256.28	256.18
Bellavista	99.75	Max WS	TR30_2h	1.01	0.17	0.84	0.00					260.75	256.16	256.05	256.13	256.07
Bellavista	99.75	Max WS	TR200_3H	1.03	0.18	0.86	0.00					260.75	256.17	256.07	256.14	256.08
Bellavista	99.75	Max WS	TR30_3H	0.77	0.14	0.63	0.00					260.75	256.09	256.01	256.07	256.02
Bellavista	99.73	Max WS	TR200_30min	2.72	1.26	0.63	1.26		62.72	0.24	0.12	255.73	256.53	256.35	255.97	255.97
Bellavista	99.73	Max WS	TR200_45min	2.18	1.53	0.91	1.53		73.32	0.26	0.12	255.73	256.44	256.29	255.99	255.99
Bellavista	99.73	Max WS	TR200_1H	1.84	1.52	0.95	1.52		72.09	0.26	0.13	255.73	256.38	256.25	255.99	255.99
Bellavista	99.73	Max WS	TR200_2H	1.14	1.10	0.63	1.10		59.25	0.23	0.12	255.73	256.22	256.14	255.96	255.96
Bellavista	99.73	Max WS	TR30_30min	2.11	0.63	0.26	0.63		47.10	0.18	0.10	255.73	256.42	256.28	255.91	255.91
Bellavista	99.73	Max WS	TR30_45min	1.68	0.85	0.45	0.85		53.02	0.21	0.11	255.73	256.34	256.22	255.94	255.94
Bellavista	99.73	Max WS	TR30_1h	1.38	0.94	0.53	0.94		55.22	0.22	0.11	255.73	256.28	256.18	255.95	255.95
Bellavista	99.73	Max WS	TR30_2h	0.84	0.80	0.48	0.80		51.63	0.20	0.10	255.73	256.13	256.07	255.93	255.93
Bellavista	99.73	Max WS	TR200_3H	0.86	0.84	0.46	0.84		52.82	0.21	0.11	255.73	256.14	256.08	255.94	255.94
Bellavista	99.73	Max WS	TR30_3H	0.63	0.62	0.31	0.62		46.93	0.18	0.09	255.73	256.07	256.02	255.91	255.91
Bellavista	98.98	Max WS	TR200_30min	2.15	0.48	0.63	0.48		104.68	0.74	0.48	255.23	256.17	256.08	255.97	255.97
Bellavista	98.98	Max WS	TR200_45min	1.79	0.98	0.91	0.98		104.68	0.76	0.50	255.23	256.14	256.07	255.99	255.99
Bellavista	98.98	Max WS	TR200_1H	1.56	3.11	0.95	3.11		104.68	0.76	0.50	255.23	256.11	256.06	255.99	255.99
Bellavista	98.98	Max WS	TR200_2H	1.08	0.05	0.63	0.05		104.68	0.73	0.46	255.23	256.03	256.00	255.96	255.96
Bellavista	98.98	Max WS	TR30_30min	1.83	3.66	0.26	3.66		104.68	0.68	0.41	255.23	256.09	256.00	255.91	255.91
Bellavista	98.98	Max WS	TR30_45min	1.58	4.14	0.45	4.14		104.68	0.71	0.43	255.23	256.06	255.99	255.94	255.94
Bellavista	98.98	Max WS	TR30_1h	1.30	3.35	0.53	3.35		104.68	0.72	0.44	255.23	256.04	255.99	255.95	255.95
Bellavista	98.98	Max WS	TR30_2h	0.84	0.18	0.48	0.18		104.68	0.70	0.43	255.23	255.98	255.96	255.93	255.93
Bellavista	98.98	Max WS	TR200_3H	0.84	0.03	0.46	0.03		104.68	0.71	0.43	255.23	255.99	255.96	255.94	255.94
Bellavista	98.98	Max WS	TR30_3H	0.64	0.06	0.31	0.06		104.68	0.68	0.40	255.23	255.95	255.93	255.91	255.91
Bellavista	97.99	Max WS	TR200_30min	0.63	1.23	-0.31	1.23		62.48	0.24	0.12	255.73	255.97	255.97	255.98	255.98
Bellavista	97.99	Max WS	TR200_45min	0.91	1.49	-0.25	1.49		67.68	0.26	0.13	255.73	255.99	255.99	256.00	256.00
Bellavista	97.99	Max WS	TR200_1H	0.95	1.48	-0.23	1.48		67.21	0.26	0.13	255.73	255.99	255.99	256.00	256.00
Bellavista	97.99	Max WS	TR200_2H	0.63	1.05	-0.18	1.05		58.34	0.23	0.11	255.73	255.96	255.96	255.96	255.96
Bellavista	97.99	Max WS	TR30_30min	0.26	0.59	-0.19	0.59		46.57	0.18	0.09	255.73	255.91	255.91	255.91	255.91
Bellavista	97.99	Max WS	TR30_45min	0.45	0.82	-0.23	0.82		52.95	0.21	0.10	255.73	255.94	255.94	255.94	255.94
Bellavista	97.99	Max WS	TR30_1h	0.53	0.90	-0.20	0.90		55.14	0.22	0.11	255.73	255.95	255.95	255.95	255.95
Bellavista	97.99	Max WS	TR30_2h	0.48	0.76	-0.14	0.76		51.24	0.20	0.10	255.73	255.93	255.93	255.93	255.93
Bellavista	97.99	Max WS	TR200_3H	0.46	0.80	-0.14	0.80		52.31	0.21	0.10	255.73	255.94	255.94	255.94	255.94
Bellavista	97.99	Max WS	TR30_3H	0.31	0.58	-0.11	0.58		46.05	0.18	0.09	255.73	255.91	255.91	255.91	255.91
Bellavista	97.98	Max WS	TR200_30min	0.63	1.02	-0.31	1.02		99.53	0.74	0.74	255.23	255.97	255.97	255.98	255.98
Bellavista	97.98	Max WS	TR200_45min	0.91	0.39	-0.25	0.39		99.53	0.76	0.76	255.23	255.99	255.99	256.00	256.00
Bellavista	97.98	Max WS	TR200_1H	0.95	6.97	-0.23	6.97		99.53	0.76	0.75	255.23	255.99	255.99	256.00	256.00
Bellavista	97.98	Max WS	TR200_2H	0.63	0.54	-0.18	0.54		99.53	0.73	0.72	255.23	255.96	255.96	255.96	255.96
Bellavista	97.98	Max WS	TR30_30min	0.26	6.41	-0.19	6.41		99.53	0.68	0.67	255.23	255.91	255.91	255.91	255.91
Bellavista	97.98	Max WS	TR30_45min	0.45	7.45	-0.23	7.45		99.53	0.71	0.70	255.23	255.94	255.94	255.94	255.94
Bellavista	97.98	Max WS	TR30_1h	0.53	6.27	-0.20	6.27		99.53	0.72	0.71	255.23	255.95	255.95	255.95	255.95
Bellavista	97.98	Max WS	TR30_2h	0.48	0.84	-0.14	0.84		99.53	0.70	0.69	255.23	255.93	255.93	255.93	255.93
Bellavista	97.98	Max WS	TR200_3H	0.46	0.29	-0.14	0.29		99.53	0.71	0.70	255.23	255.94	255.94	255.94	255.94
Bellavista	97.98	Max WS	TR30_3H	0.31	0.26	-0.11	0.26		99.53	0.68	0.67	255.23	255.91	255.91	255.91	255.91
Bellavista	96.99	Max WS	TR200_30min	-0.31	0.00	0.14	0.00					256.06	255.98	255.98	255.96	255.95
Bellavista	96.99	Max WS	TR200_45min	-0.25	0.00	0.17	0.00					256.06	256.00	256.00	255.98	255.96
Bellavista	96.99	Max WS	TR200_1H	-0.23	0.00	0.17	0.00					256.06	256.00	256.00	255.98	255.96
Bellavista	96.99	Max WS	TR200_2H	-0.18	0.00	0.11	0.00					256.06	255.96	255.96	255.94	255.93
Bellavista	96.99	Max WS	TR30_30min	-0.19	0.00	0.06	0.00					256.06	255.91	255.91	255.90	255.89
Bellavista	96.99	Max WS	TR30_45min	-0.23	0.00	0.08	0.00					256.06	255.94	255.94	255.92	255.91
Bellavista	96.99	Max WS	TR30_1h	-0.20	0.00	0.10	0.00					256.06	255.95	255.95	255.93	255.92
Bellavista	96.99	Max WS	TR30_2h	-0.14	0.00	0.08	0.00					256.06	255.93	255.93	255.91	255.90
Bellavista	96.99	Max WS	TR200_3H	-0.14	0.00	0.09	0.00					256.06	255.94	255.94	255.92	255.90
Bellavista	96.99	Max WS	TR30_3H	-0.11	0.00	0.06	0.00					256.06	255.91	255.91	255.89	255.88
Bellavista	96.98	Max WS	TR200_30min	-0.31	0.66	0.14	0.66		105.83	0.73	0.36	255.25	255.98	255.98	255.96	255.95
Bellavista	96.98	Max WS	TR200_45min	-0.25	0.45	0.17	0.45		105.83	0.75	0.38	255.25	256.00	256.00	255.98	255.96
Bellavista	96.98	Max WS	TR200_1H	-0.23	3.69	0.17	3.69		105.83	0.75	0.38	255.25	256.00	256.00	255.98	255.96
Bellavista	96.98	Max WS	TR200_2H	-0.18	0.41	0.11	0.41		105.83	0.71	0.34	255.25	255.96	255.96	255.94	255.93
Bellavista	96.98	Max WS	TR30_30min	-0.19	2.72	0.06	2.72		101.19	0.66	0.31	255.25	255.91	255.91	255.90	255.89
Bellavista	96.98	Max WS	TR30_45min	-0.23	3.12	0.08	3.12		104.12	0.69	0.32	255.25	255.94	255.94	255.92	255.91
Bellavista	96.98	Max WS	TR30_1h	-0.20	2.88	0.10	2.88		104.75	0.70	0.33	255.25	255.95	255.95	255.93	255.92
Bellavista	96.98	Max WS	TR30_2h	-0.14	0.78	0.08	0.78		104.14	0.68	0.32	255.25	255.93	255.93	255.91	255.90
Bellavista	96.98	Max WS	TR200_3H	-0.14	0.42	0.09	0.42		104.63	0.69	0.32	255.25	255.94	255.94	255.92	255.90
Bellavista	96.98	Max WS	TR30_3H	-0.11	0.29	0.06	0.29		101.42	0.66	0.30	255.25	255.91	255.91	255.89	255.88
Bellavista	95.99	Max WS	TR200_30min	0.14	0.00	0.21	0.00					255.87	255.96	255.95	255.74	255.74
Bellavista	95.99	Max WS	TR200_45min	0.17	0.00	0.22	0.00					255.87	255.98	255.96	255.78	255.78
Bellavista	95.99	Max WS	TR200_1H	0.17	0.00	0.18	0.00					255.87	255.98	255.96	255.79	255.79
Bellavista	95.99	Max WS	TR200_2H	0.11	0.00	0.19	0.00					255.87	255.94	255.93	255.76	255.76
Bellavista	95.99	Max WS	TR30_30min	0.06	0.00	0.09	0.00					255.87	255.90	255.89	255.65	255.65
Bellavista	95.99	Max WS	TR30_45min	0.08	0.00	0.10	0.00					255.87	255.92	255.91	255.68	255.68
Bellavista	95.99	Max WS	TR30_1h	0.10	0.00	0.10	0.00					255.87	255.93	255.92	255.70	255.70
Bellavista	95.99	Max WS	TR30_2h	0.08	0.00	0.09	0.00					255.87	255.91	255.90	255.69	255.69
Bellavista	95.99	Max WS	TR200_3H	0.09	0.00	0.15	0.00					255.87	255.92	255.90	255.72	255.72
Bellavista	95.99	Max WS	TR30_3H	0.06	0.00	0.08	0.00					255.87	255.89	255.88	255.65	255.65
Bellavista	95.98	Max WS	TR200_30min	0.14	1.00	0.21	1.00		73.02	0.47	0.19	255.27	255.96	255.95	255.74	255.74
Bellavista	95.98	Max WS	TR200_45min	0.17	0.99	0.22	0.99		73.02	0.51	0.22	255.27	255.98	255.96	255.78	255.78
Bellavista	95.98	Max WS	TR200_1H	0.17	0.77	0.18	0.77		73.02	0.52	0.22	255.27	255.98	255.96	255.79	255.79
Bellavista	95.98	Max WS	TR200_2H	0.11	1.08	0.19	1.08		72.52	0.49	0.19	255.27	255.94	255.93	255.76	255.76
Bellavista	95.98	Max WS	TR30_30min	0.06	0.43	0.09	0.43		56.69	0.38	0.15	255.27	255.90	255.89	255.65	255.65
Bellavista	95.98	Max WS	TR30_45min	0.08	0.42	0.10	0.42		69.32	0.41	0.14	255.27	255.92	255.91	255.68	255.68
Bellavista	95.98	Max WS	TR30_1h	0.10	0.90	0.10	0.90		72.19	0.43	0.15	255.27	255.93	255.92	255.70	255.70
Bellavista	95.98	Max WS	TR30_2h	0.08	0.46	0.09	0.46		61.67	0.42	0.16	255.27	255.91	255.90	255.69	255.69

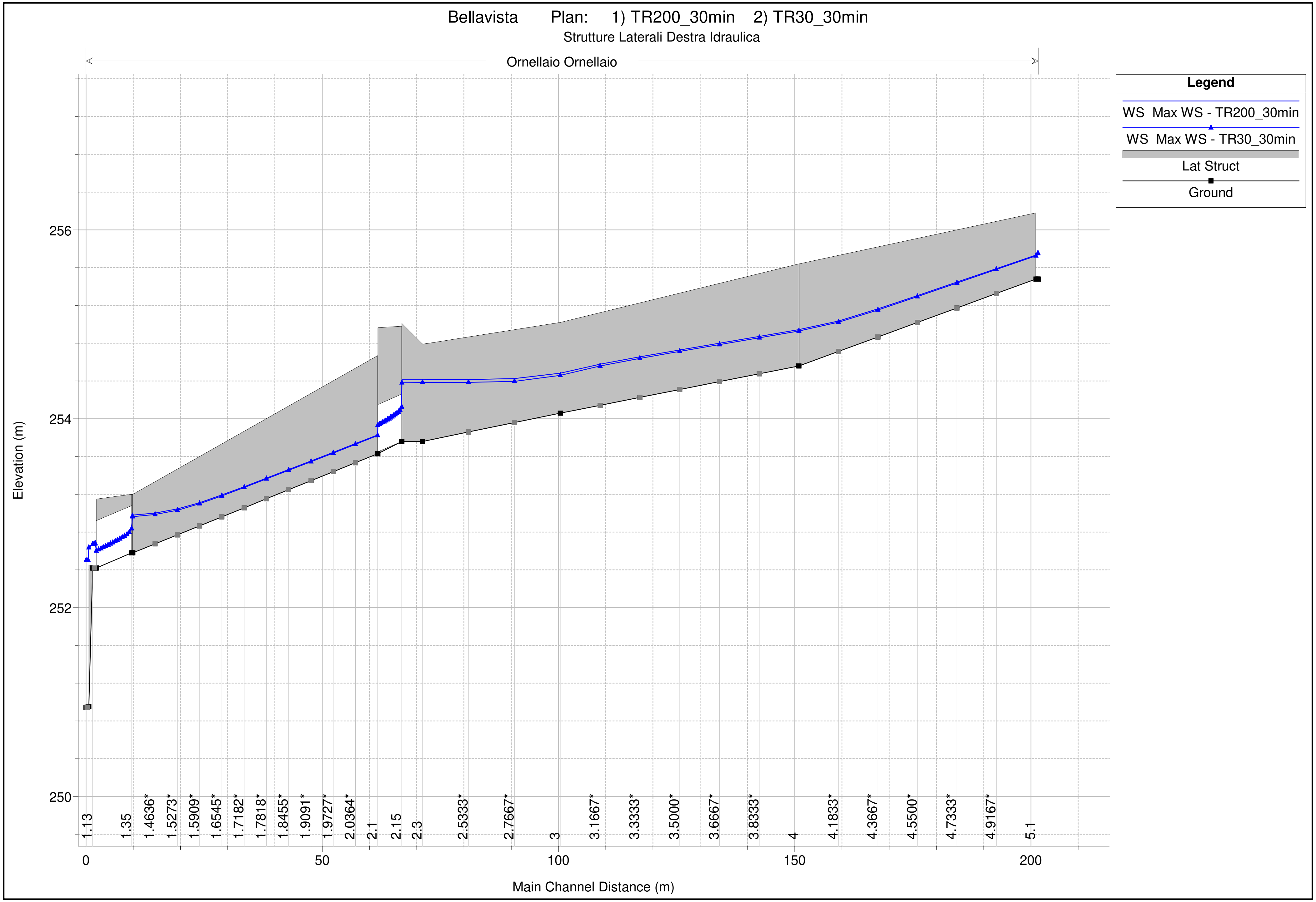
HEC-RAS River: Bellavista Reach: Bellavista Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
Bellavista	95.98	Max WS	TR200_3H	0.09	0.42	0.15	0.42		67.28	0.45	0.18	255.27	255.92	255.90	255.72	255.72
Bellavista	95.98	Max WS	TR30_3H	0.06	0.40	0.08	0.40		54.88	0.38	0.15	255.27	255.89	255.88	255.65	255.65
Bellavista	92.99	Max WS	TR200_30min	0.21	0.00	0.73	0.00					255.84	255.73	255.73	255.70	255.70
Bellavista	92.99	Max WS	TR200_45min	0.22	0.00	0.82	0.00					255.84	255.77	255.77	255.74	255.73
Bellavista	92.99	Max WS	TR200_1H	0.16	0.00	0.89	0.00					255.84	255.79	255.79	255.75	255.75
Bellavista	92.99	Max WS	TR200_2H	0.18	0.00	0.81	0.00					255.84	255.76	255.75	255.73	255.72
Bellavista	92.99	Max WS	TR30_30min	0.09	0.00	0.55	0.00					255.84	255.64	255.64	255.62	255.61
Bellavista	92.99	Max WS	TR30_45min	0.10	0.00	0.59	0.00					255.84	255.68	255.68	255.65	255.64
Bellavista	92.99	Max WS	TR30_1h	0.09	0.00	0.64	0.00					255.84	255.69	255.69	255.67	255.66
Bellavista	92.99	Max WS	TR30_2h	0.09	0.00	0.60	0.00					255.84	255.68	255.68	255.66	255.65
Bellavista	92.99	Max WS	TR200_3H	0.14	0.00	0.69	0.00					255.84	255.72	255.72	255.69	255.68
Bellavista	92.99	Max WS	TR30_3H	0.07	0.00	0.52	0.00					255.84	255.64	255.64	255.62	255.62
Bellavista	92.98	Max WS	TR200_30min	0.21	5.91	0.73	5.91		184.93	0.71	0.46	255.01	255.73	255.73	255.70	255.70
Bellavista	92.98	Max WS	TR200_45min	0.22	-3.02	0.82	-3.02		184.93	0.75	0.51	255.01	255.77	255.77	255.74	255.73
Bellavista	92.98	Max WS	TR200_1H	0.16	4.71	0.89	4.71		184.93	0.76	0.52	255.01	255.79	255.79	255.75	255.75
Bellavista	92.98	Max WS	TR200_2H	0.18	1.52	0.81	1.52		184.93	0.73	0.50	255.01	255.76	255.75	255.73	255.72
Bellavista	92.98	Max WS	TR30_30min	0.09	2.33	0.55	2.33		184.93	0.62	0.38	255.01	255.64	255.64	255.62	255.61
Bellavista	92.98	Max WS	TR30_45min	0.10	2.30	0.59	2.30		184.93	0.65	0.42	255.01	255.68	255.68	255.65	255.64
Bellavista	92.98	Max WS	TR30_1h	0.09	7.57	0.64	7.57		184.93	0.67	0.43	255.01	255.69	255.69	255.67	255.66
Bellavista	92.98	Max WS	TR30_2h	0.09	2.52	0.60	2.52		184.93	0.66	0.42	255.01	255.68	255.68	255.66	255.65
Bellavista	92.98	Max WS	TR200_3H	0.14	0.41	0.69	0.41		184.93	0.69	0.45	255.01	255.72	255.72	255.69	255.68
Bellavista	92.98	Max WS	TR30_3H	0.07	1.94	0.52	1.94		184.93	0.62	0.38	255.01	255.64	255.64	255.62	255.62
Bellavista	90.99	Max WS	TR200_30min	0.73	0.00	1.09	0.00					255.67	255.70	255.70	255.61	255.60
Bellavista	90.99	Max WS	TR200_45min	0.82	0.00	1.24	0.00					255.67	255.74	255.73	255.64	255.62
Bellavista	90.99	Max WS	TR200_1H	0.89	0.00	1.28	0.00					255.67	255.75	255.75	255.65	255.63
Bellavista	90.99	Max WS	TR200_2H	0.81	0.00	1.16	0.00					255.67	255.73	255.72	255.63	255.61
Bellavista	90.99	Max WS	TR30_30min	0.55	0.00	0.72	0.00					255.67	255.62	255.61	255.54	255.54
Bellavista	90.99	Max WS	TR30_45min	0.59	0.00	0.87	0.00					255.67	255.65	255.64	255.57	255.56
Bellavista	90.99	Max WS	TR30_1h	0.64	0.00	0.93	0.00					255.67	255.67	255.66	255.59	255.58
Bellavista	90.99	Max WS	TR30_2h	0.60	0.00	0.87	0.00					255.67	255.66	255.65	255.58	255.57
Bellavista	90.99	Max WS	TR200_3H	0.69	0.00	1.03	0.00					255.67	255.69	255.68	255.61	255.59
Bellavista	90.99	Max WS	TR30_3H	0.52	0.00	0.75	0.00					255.67	255.62	255.62	255.56	255.55
Bellavista	90.98	Max WS	TR200_30min	0.73	1.19	1.09	1.19		70.84	0.27	0.21	255.33	255.70	255.70	255.61	255.60
Bellavista	90.98	Max WS	TR200_45min	0.82	1.13	1.24	1.13		70.84	0.29	0.24	255.33	255.74	255.73	255.64	255.62
Bellavista	90.98	Max WS	TR200_1H	0.89	0.32	1.28	0.32		70.84	0.30	0.25	255.33	255.75	255.75	255.65	255.63
Bellavista	90.98	Max WS	TR200_2H	0.81	0.64	1.16	0.64		70.84	0.28	0.23	255.33	255.73	255.72	255.63	255.61
Bellavista	90.98	Max WS	TR30_30min	0.55	0.12	0.72	0.12		70.84	0.21	0.14	255.33	255.62	255.61	255.54	255.54
Bellavista	90.98	Max WS	TR30_45min	0.59	0.89	0.87	0.89		70.84	0.23	0.16	255.33	255.65	255.64	255.57	255.56
Bellavista	90.98	Max WS	TR30_1h	0.64	-0.14	0.93	-0.14		70.84	0.25	0.18	255.33	255.67	255.66	255.59	255.58
Bellavista	90.98	Max WS	TR30_2h	0.60	-0.37	0.87	-0.37		70.84	0.24	0.18	255.33	255.66	255.65	255.58	255.57
Bellavista	90.98	Max WS	TR200_3H	0.69	-0.58	1.03	-0.58		70.84	0.26	0.21	255.33	255.69	255.68	255.61	255.59
Bellavista	90.98	Max WS	TR30_3H	0.52	0.17	0.75	0.17		70.84	0.22	0.15	255.33	255.62	255.62	255.56	255.55
Bellavista	89.99	Max WS	TR200_30min	1.09	1.34	0.09	1.34		66.88	0.33	0.16	255.24	255.61	255.60	255.57	255.57
Bellavista	89.99	Max WS	TR200_45min	1.24	1.57	0.15	1.57		73.06	0.35	0.16	255.24	255.64	255.62	255.59	255.59
Bellavista	89.99	Max WS	TR200_1H	1.28	1.64	0.16	1.64		75.19	0.36	0.17	255.24	255.65	255.63	255.60	255.60
Bellavista	89.99	Max WS	TR200_2H	1.16	1.51	0.11	1.51		71.21	0.35	0.16	255.24	255.63	255.61	255.59	255.59
Bellavista	89.99	Max WS	TR30_30min	0.72	0.92	-0.03	0.92		56.10	0.28	0.14	255.24	255.54	255.54	255.52	255.52
Bellavista	89.99	Max WS	TR30_45min	0.87	1.10	0.01	1.10		60.53	0.31	0.15	255.24	255.57	255.56	255.55	255.55
Bellavista	89.99	Max WS	TR30_1h	0.93	1.20	0.02	1.20		63.11	0.32	0.15	255.24	255.59	255.58	255.56	255.56
Bellavista	89.99	Max WS	TR30_2h	0.87	1.19	-0.01	1.19		62.53	0.31	0.15	255.24	255.58	255.57	255.55	255.55
Bellavista	89.99	Max WS	TR200_3H	1.03	1.33	0.02	1.33		66.26	0.33	0.16	255.24	255.61	255.59	255.57	255.57
Bellavista	89.99	Max WS	TR30_3H	0.75	1.05	-0.06	1.05		59.27	0.30	0.15	255.24	255.56	255.55	255.54	255.54
Bellavista	89.98	Max WS	TR200_30min	1.09	0.41	0.09	0.41		84.59	0.46	0.33	255.11	255.61	255.60	255.57	255.57
Bellavista	89.98	Max WS	TR200_45min	1.24	0.87	0.15	0.87		84.59	0.48	0.35	255.11	255.64	255.62	255.59	255.59
Bellavista	89.98	Max WS	TR200_1H	1.28	0.25	0.16	0.25		84.59	0.49	0.36	255.11	255.65	255.63	255.60	255.60
Bellavista	89.98	Max WS	TR200_2H	1.16	0.63	0.11	0.63		84.59	0.48	0.35	255.11	255.63	255.61	255.59	255.59
Bellavista	89.98	Max WS	TR30_30min	0.72	1.53	-0.03	1.53		84.59	0.41	0.28	255.11	255.54	255.54	255.52	255.52
Bellavista	89.98	Max WS	TR30_45min	0.87	1.48	0.01	1.48		84.59	0.44	0.30	255.11	255.57	255.56	255.55	255.55
Bellavista	89.98	Max WS	TR30_1h	0.93	1.73	0.02	1.73		84.59	0.45	0.31	255.11	255.59	255.58	255.56	255.56
Bellavista	89.98	Max WS	TR30_2h	0.87	0.50	-0.01	0.50		84.59	0.44	0.31	255.11	255.58	255.57	255.55	255.55
Bellavista	89.98	Max WS	TR200_3H	1.03	0.18	0.02	0.18		84.59	0.46	0.33	255.11	255.61	255.59	255.57	255.57
Bellavista	89.98	Max WS	TR30_3H	0.75	0.66	-0.06	0.66		84.59	0.43	0.30	255.11	255.56	255.55	255.54	255.54
Bellavista	87.99	Max WS	TR200_30min	0.09	0.04	0.16	0.04		40.53	0.04	0.02	255.53	255.57	255.57	255.57	255.57
Bellavista	87.99	Max WS	TR200_45min	0.15	0.10	0.21	0.10		62.92	0.06	0.03	255.53	255.59	255.59	255.59	255.59
Bellavista	87.99	Max WS	TR200_1H	0.16	0.13	0.21	0.13		69.06	0.07	0.03	255.53	255.60	255.60	255.60	255.60
Bellavista	87.99	Max WS	TR200_2H	0.11	0.08	0.17	0.08		57.41	0.05	0.03	255.53	255.58	255.58	255.58	255.58
Bellavista	87.99	Max WS	TR30_30min	-0.04	0.00	0.05	0.00					255.53	255.52	255.52	255.52	255.52
Bellavista	87.99	Max WS	TR30_45min	0.01	0.00	0.08	0.00		16.14	0.02	0.01	255.53	255.54	255.54	255.55	255.55
Bellavista	87.99	Max WS	TR30_1h	0.02	0.01	0.10	0.01		26.26	0.03	0.01	255.53	255.56	255.56	255.56	255.56
Bellavista	87.99	Max WS	TR30_2h	-0.01	0.01	0.08	0.01		25.31	0.02	0.01	255.53	255.55	255.55	255.55	255.55
Bellavista	87.99	Max WS	TR200_3H	0.02	0.03	0.12	0.03		38.94	0.04	0.02	255.53	255.57	255.57	255.57	255.57
Bellavista	87.99	Max WS	TR30_3H	-0.06	0.00	0.03	0.00		8.56	0.01	0.00	255.53	255.54	255.54	255.54	255.54
Bellavista	87.98	Max WS	TR200_30min	0.09	0.91	0.16	0.91		107.07	0.64	0.35	254.93	255.57	255.57	255.57	255.57
Bellavista	87.98	Max WS	TR200_45min	0.15	1.15	0.21	1.15		107.07	0.66	0.37	254.93	255.59	255.59	255.59	255.59
Bellavista	87.98	Max WS	TR200_1H	0.16	0.26	0.21	0.26		107.07	0.67	0.38	254.93	255.60	255.60	255.60	255.60
Bellavista	87.98	Max WS	TR200_2H	0.11	1.03	0.17	1.03		107.07	0.66	0.37	254.93	255.58	255.58	255.58	255.58
Bellavista	87.98	Max WS	TR30_30min	-0.04	1.37	0.05	1.37		107.07	0.60	0.31	254.93	255.52	255.52	255.52	255.52
Bellavista	87.98	Max WS	TR30_45min	0.01	2.30	0.08	2.30		107.07	0.62	0.33	254.93	255.54	255.54	255.55	255.55
Bellavista	87.98	Max WS	TR30_1h	0.02	2.05	0.10	2.05		107.07	0.63	0.34	254.93	255.56	255.56	255.56	255.56
Bellavista	87.98	Max WS	TR30_2h	-0.01	0.91	0.08	0.91		107.07	0.63	0.34	254.93	255.55	255.55	255.55	255.55
Bellavista	87.98	Max WS	TR200_3H	0.02	0.26	0.12	0.26		107.07	0.64	0.35	254.93	255.57	255.57	255.57	255.57
Bellavista	87.98	Max WS	TR30_3H	-0.06	0.75	0.03	0.75		107.07	0.61	0.33	254.93	255.54	255.54	255.54	255.54
Bellavista	86.99	Max WS	TR200_30min	0.16	0.28	0.09	0.28		64.76	0.09	0.06	255.48	255.57	255.57	255.57	255.57
Bellavista	86.99	Max WS	TR200_45min	0.21	0.43	0.09	0.43		66.95	0.11	0.08	255.48	255.59	255.59	255.59	255.59
Bellavista	86.99	Max WS	TR200_1H	0.21	0.48	0.09	0.48		67.62	0.12	0.08	255.48	255.60	255.60	255.60	255.60
Bellavista	86.99	Max WS	TR200_2H	0.17	0.39	0.09	0.39		66.39	0.10	0.07	255.48	255.58	255.58	255.58	255.58
Bellavista	86.99	Max WS	TR30_30min	0.05	0.05	0.08	0.05		52.52	0.04	0.02	255.48	255.52	255.52	255.52	255.52
Bellavista	86.99	Max WS	TR30_45min	0.08	0.15	0.09	0.15		62.30	0.07	0.04	255.48	255.55	255.55	255.55	255.54
Bellavista	86.99	Max WS	TR30_1h	0.10	0.20	0.09	0.20		63.30	0.08	0.05	255.48	255.56	255.56	255.56	255.55
Bellavista	86.99	Max WS	TR30_2h	0.08	0.20	0.09	0.20		63.24	0.08	0.05	255.48	255.55	255.55	255.56	255.55
Bellavista	86.99	Max WS	TR200_3H	0.12	0.28	0.09	0.28		64.62	0.09	0.06	255.48	255.57	255.57	255.57	255.57
Bellavista	86.99	Max WS	TR30_3H	0.03	0.11	0.09	0.11		61.62	0.06	0.03	255.48	255.54	255.54	255.54	255.54
Bellavista	86.98	Max WS	TR200_30min	0.16	0.34	0.09	0.34		82.29	0.52	0.29	255.05	255.57	255.57	255.57	255.57
Bellavista	86.98	Max WS	TR200_45min	0.21	0.79	0.09	0.79		82.29	0.54	0.31	255.05	255.59	255.59	255.59	255.59
Bellavista	86.98	Max WS	TR200_1H	0.21	0.30	0.09	0.30		82.29	0.54	0.32	255.05	255.60	255.60	255.60	255.60
Bellavista	86.98	Max WS	TR200_2H	0.17	0.20	0.09	0.20		82.29	0.53	0.31	255.05	255.58	255.58	255.58	255.58
Bellavista	86.98	Max WS	TR30_30min	0.05	1.22	0.08	1.22		79.56	0.47	0.25	255.05	255.52	255.52	255.52	255.52
Bellavista	86.98	Max WS	TR30_45min	0.08	1.26	0.09	1.26		82.29	0.49	0.27	255.05	255.55	255.55	255.55	255.54
Bellavista	86.98	Max WS	TR30_1h	0.10	1.40	0.09	1.40		82.29	0.50	0.28	255.05	255.56	255.56	255.56	255.55
Bellavista	86.98	Max WS	TR30_2h	0.08	0.33	0.09	0.33		82.29	0.50	0.28	255.05	255.55	255.55	255.56	255.55
Bellavista	86.98	Max WS	TR200_3H	0.12	0.53	0.09	0.53		82.29	0.52	0.29	255.05	255.57	255.57	255.57	255.57
Bellavista	86.98	Max WS	TR30_3H	0.03	-0.09	0.09	-0.09		82.21	0.49	0.26	255.05	255.54	255.54	255.54	255.54
Bellavista	84.19	Max WS	TR200_30min	0.06	0.13	0.07	0.13		14.51	0.19	0.09	255.18	255.37	255.37	255.37	255.37
Bellavista	84.19	Max WS	TR200_45min	0.07	0.14	0.07	0.14		14.72	0.19	0.10	255.18	255.37	255.37	255.37	255.37
Bellavista	84.19	Max WS	TR200_1H	0.08	0.13	0.07	0.13		14.34	0.19	0.09	255.18	255.37	255.37	255.37	255.37
Bellavista	84.19	Max WS	TR200_2H	0.09	0.10	0.07	0.10		12.70	0.17	0.08	255.18	255.35	255.35	255.35	255.35
Bellavista	84.19	Max WS	TR30_30min	0.06	0.08	0.07	0.08		11.80	0.15	0.08	255.18	255.33	255.33	255.34	255.33

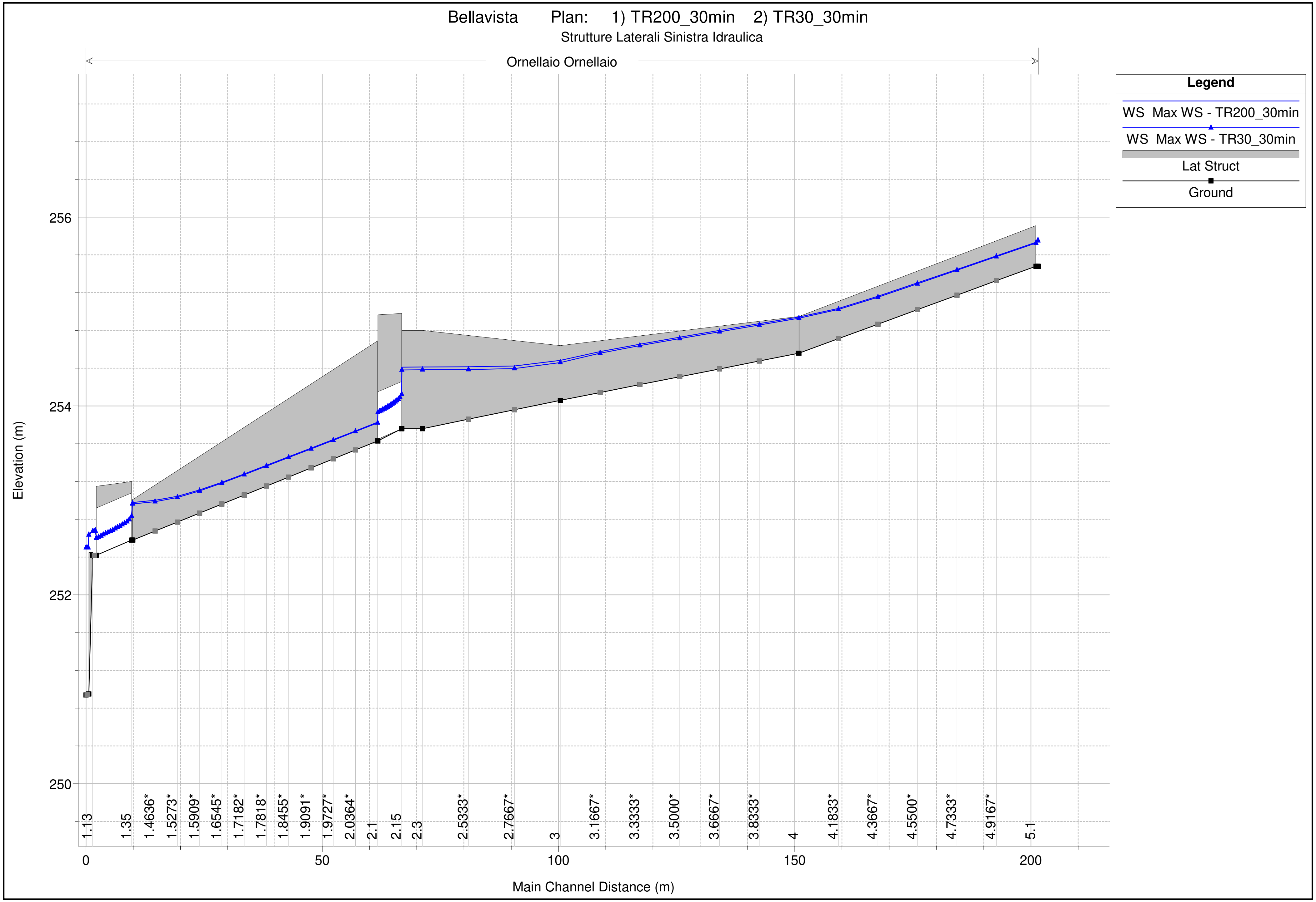
HEC-RAS River: Bellavista Reach: Bellavista Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
Bellavista	84.19	Max WS	TR30_45min	0.07	0.09	0.07	0.09		12.43	0.16	0.08	255.18	255.34	255.34	255.34	255.34
Bellavista	84.19	Max WS	TR30_1h	0.08	0.09	0.07	0.09		12.46	0.16	0.08	255.18	255.34	255.34	255.34	255.34
Bellavista	84.19	Max WS	TR30_2h	0.09	0.07	0.07	0.07		11.41	0.15	0.07	255.18	255.33	255.33	255.33	255.33
Bellavista	84.19	Max WS	TR200_3H	0.09	0.08	0.07	0.08		11.67	0.15	0.08	255.18	255.33	255.33	255.33	255.33
Bellavista	84.19	Max WS	TR30_3H	0.09	0.06	0.07	0.06		10.50	0.14	0.07	255.18	255.32	255.32	255.32	255.32
Bellavista	84.18	Max WS	TR200_30min	0.06	0.00	0.07	0.00					255.73	255.37	255.37	255.37	255.37
Bellavista	84.18	Max WS	TR200_45min	0.07	0.00	0.07	0.00					255.73	255.37	255.37	255.37	255.37
Bellavista	84.18	Max WS	TR200_1H	0.08	0.00	0.07	0.00					255.73	255.37	255.37	255.37	255.37
Bellavista	84.18	Max WS	TR200_2H	0.09	0.00	0.07	0.00					255.73	255.35	255.35	255.35	255.35
Bellavista	84.18	Max WS	TR30_30min	0.06	0.00	0.07	0.00					255.73	255.33	255.33	255.34	255.33
Bellavista	84.18	Max WS	TR30_45min	0.07	0.00	0.07	0.00					255.73	255.34	255.34	255.34	255.34
Bellavista	84.18	Max WS	TR30_1h	0.08	0.00	0.07	0.00					255.73	255.34	255.34	255.34	255.34
Bellavista	84.18	Max WS	TR30_2h	0.09	0.00	0.07	0.00					255.73	255.33	255.33	255.33	255.33
Bellavista	84.18	Max WS	TR200_3H	0.09	0.00	0.07	0.00					255.73	255.33	255.33	255.33	255.33
Bellavista	84.18	Max WS	TR30_3H	0.09	0.00	0.07	0.00					255.73	255.32	255.32	255.32	255.32

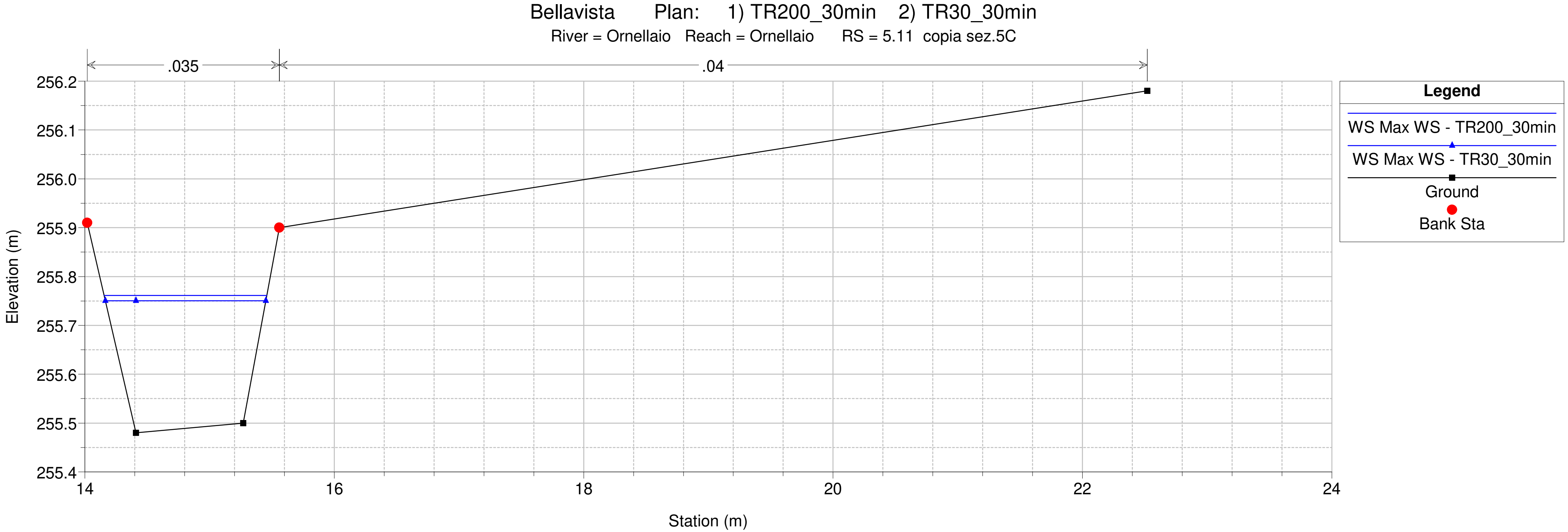
Fosso
ORNELLAIO



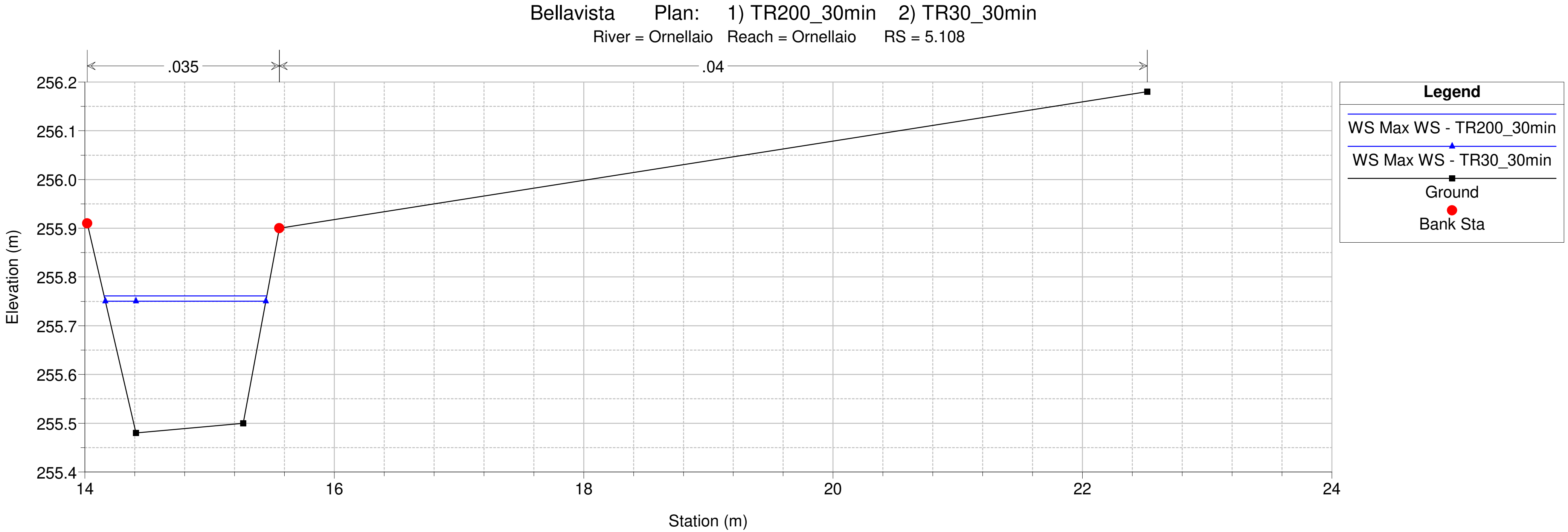
1 cm Horiz. = 10 m 1 cm Vert. = 0.5 m



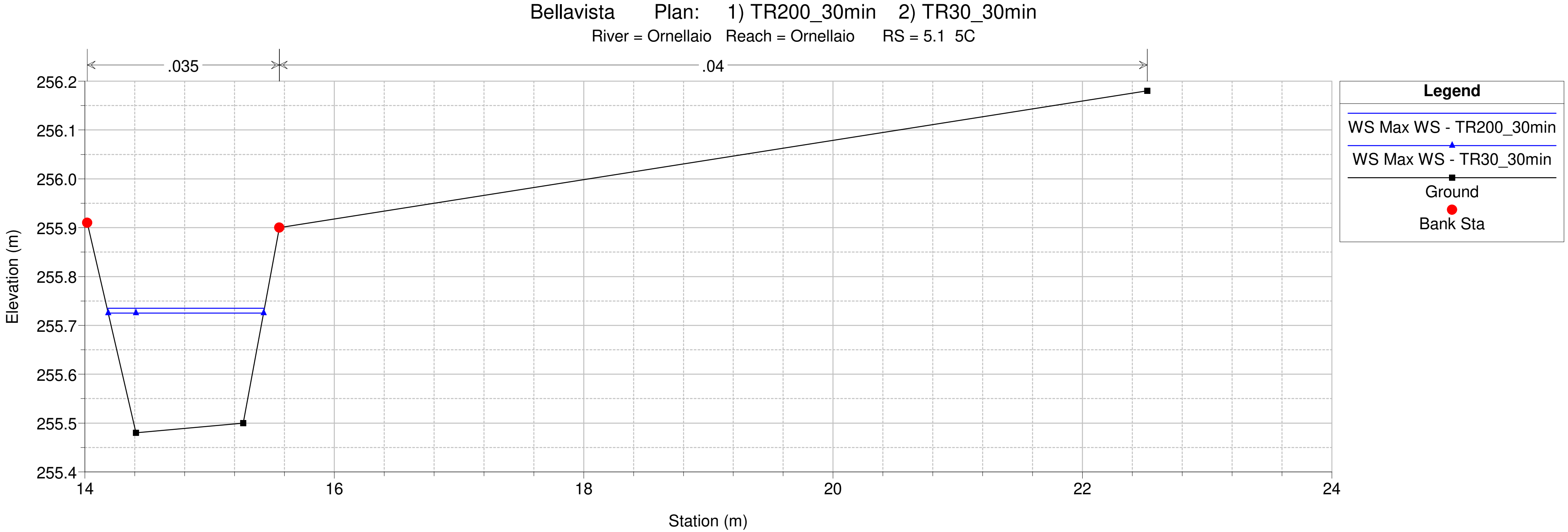
1 cm Horiz. = 10 m 1 cm Vert. = 0.5 m

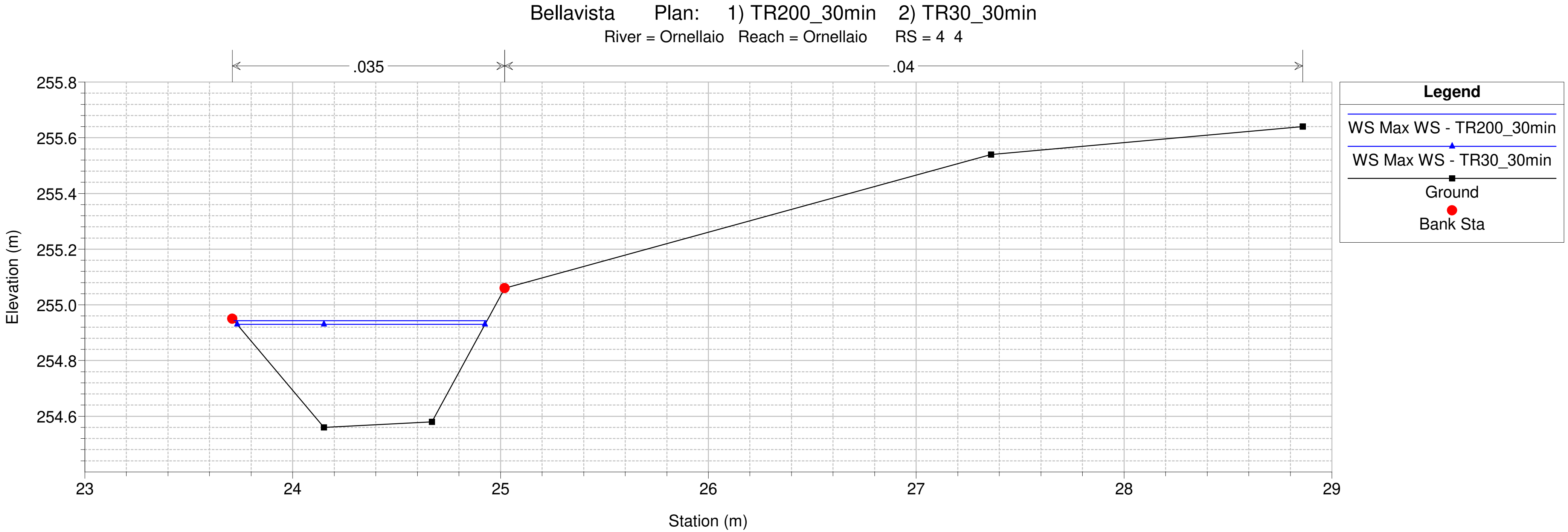


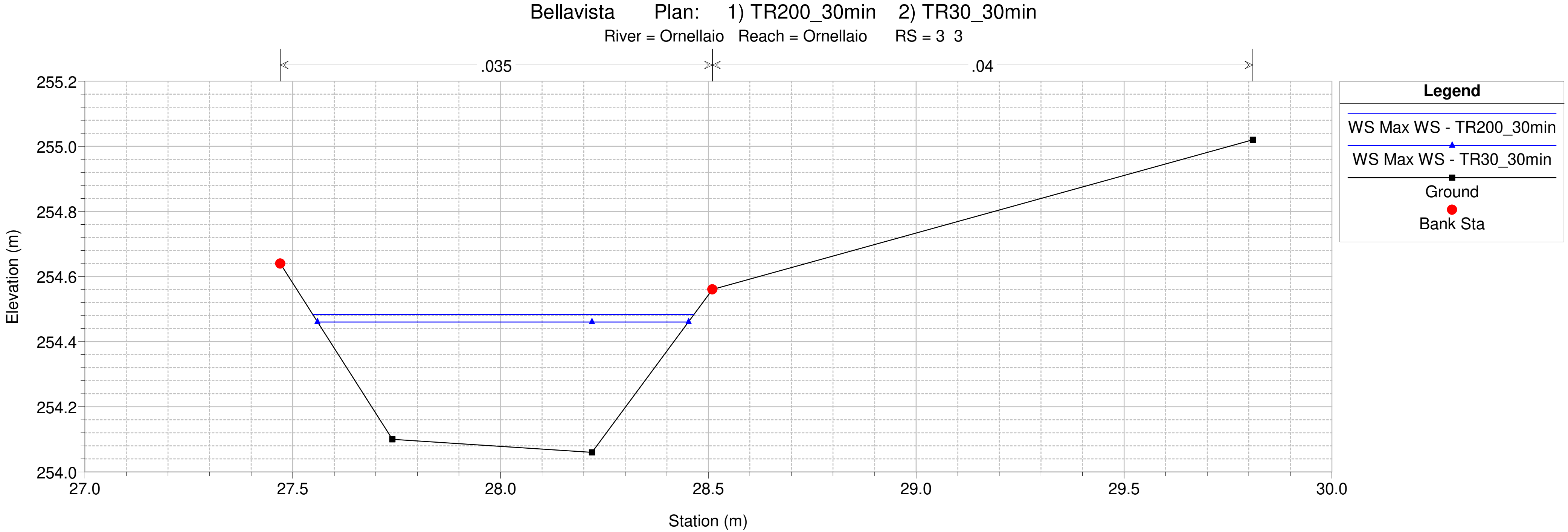
Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 5.11 copia sez.5C
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



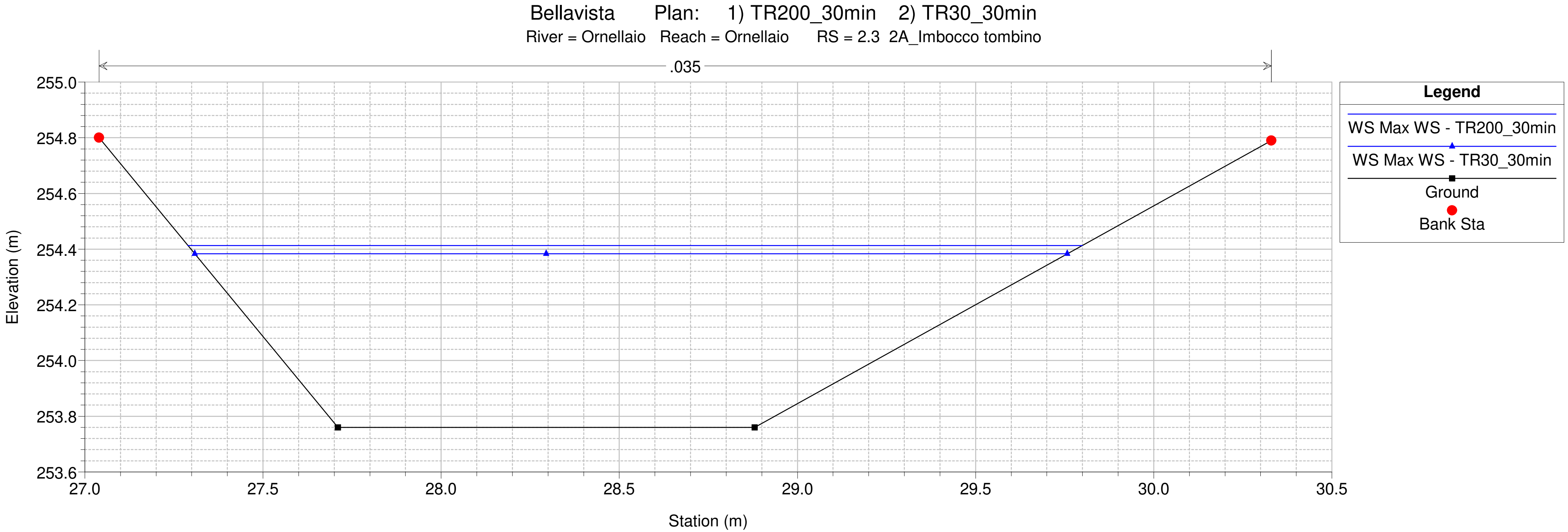
Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 5.108
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 5.1 5C
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

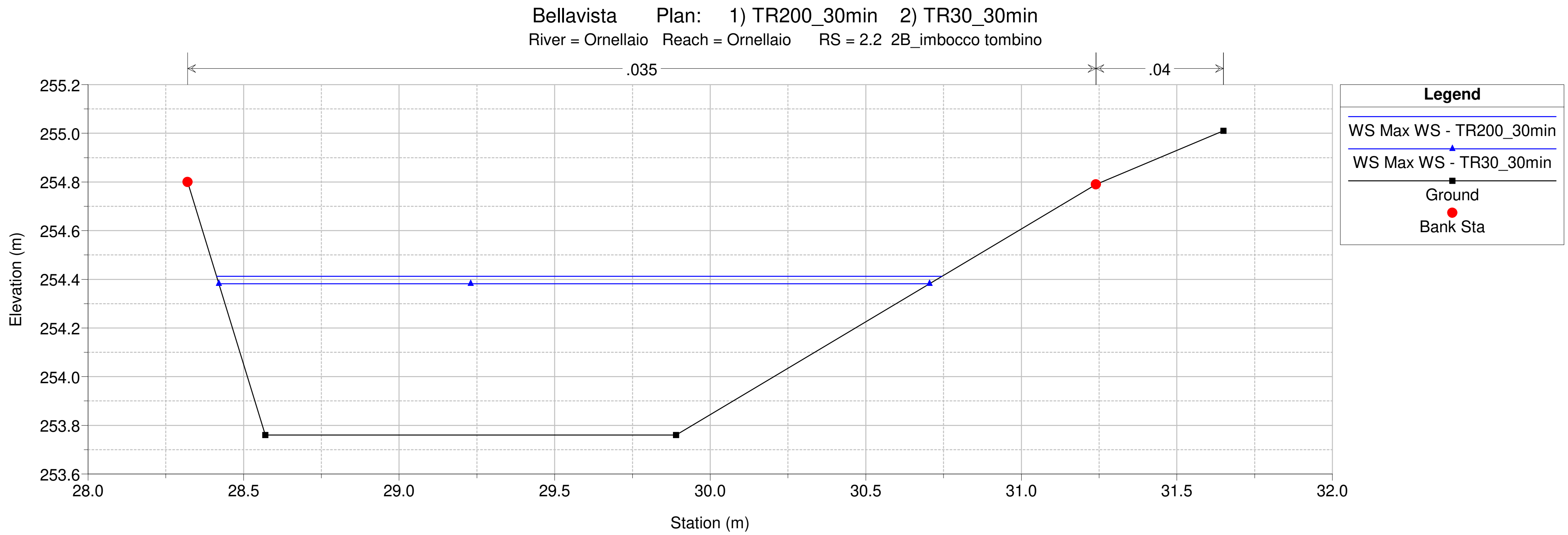

Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 4 4
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

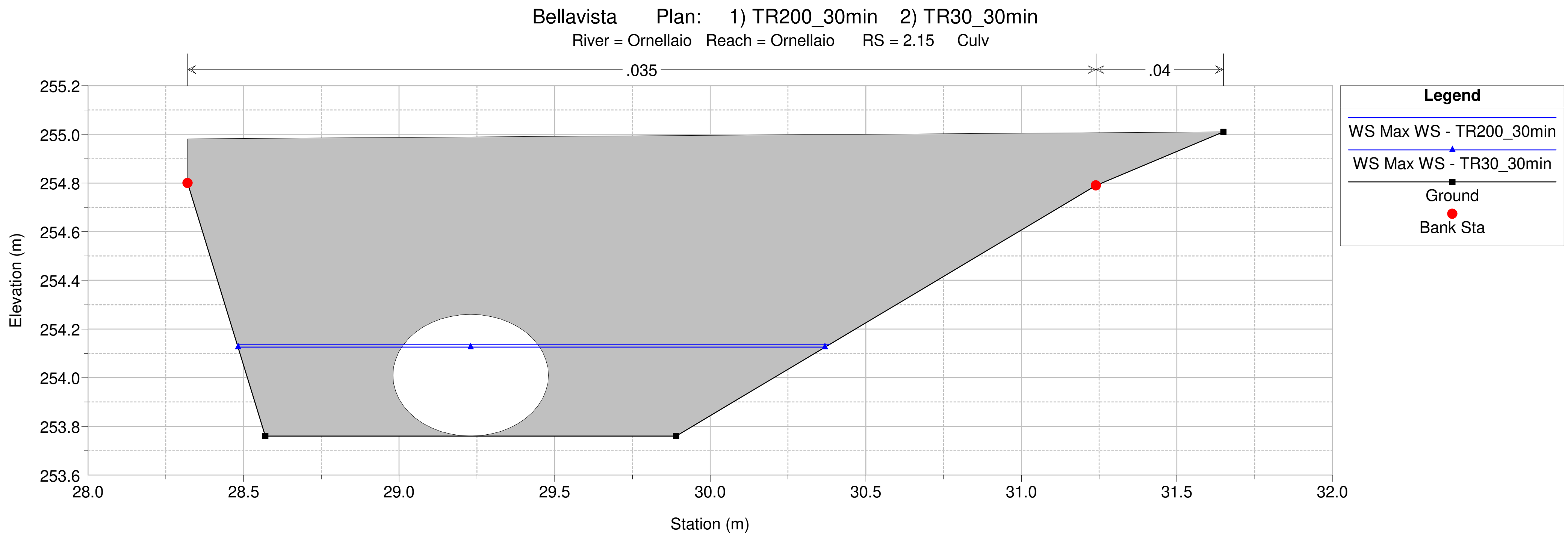


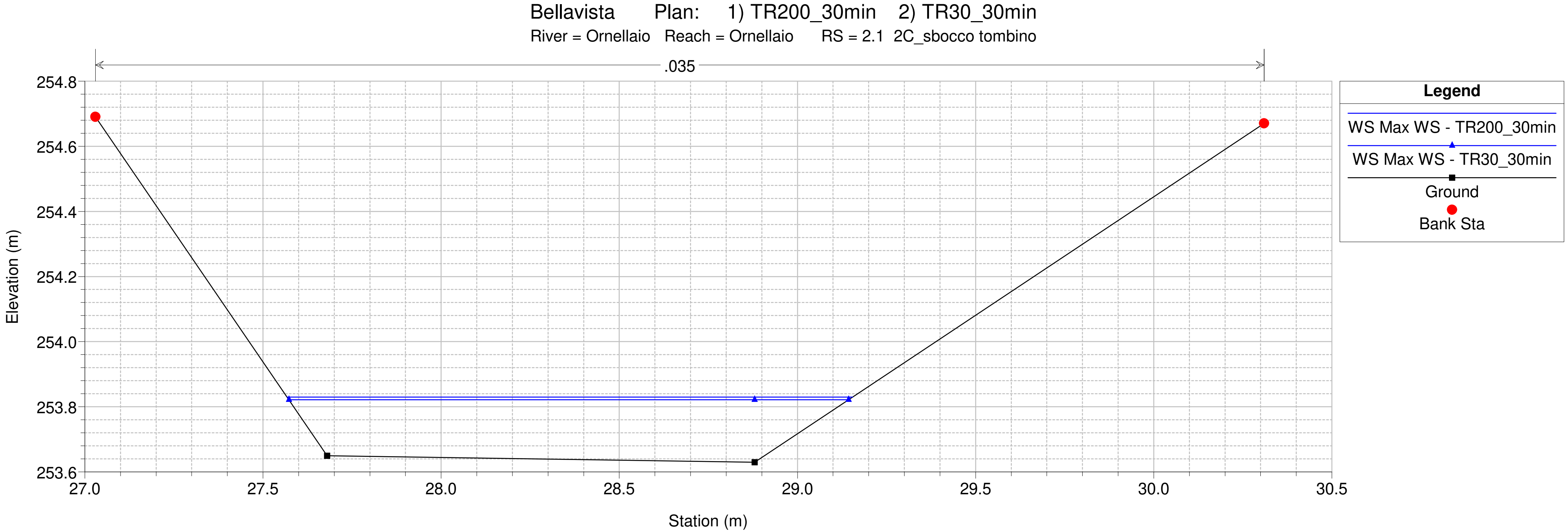
Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 3 3
.035
.04
Elevation (m)
255.2
255.0
254.8
254.6
254.4
254.2
254.0
27.0
27.5
28.0
28.5
29.0
29.5
30.0
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

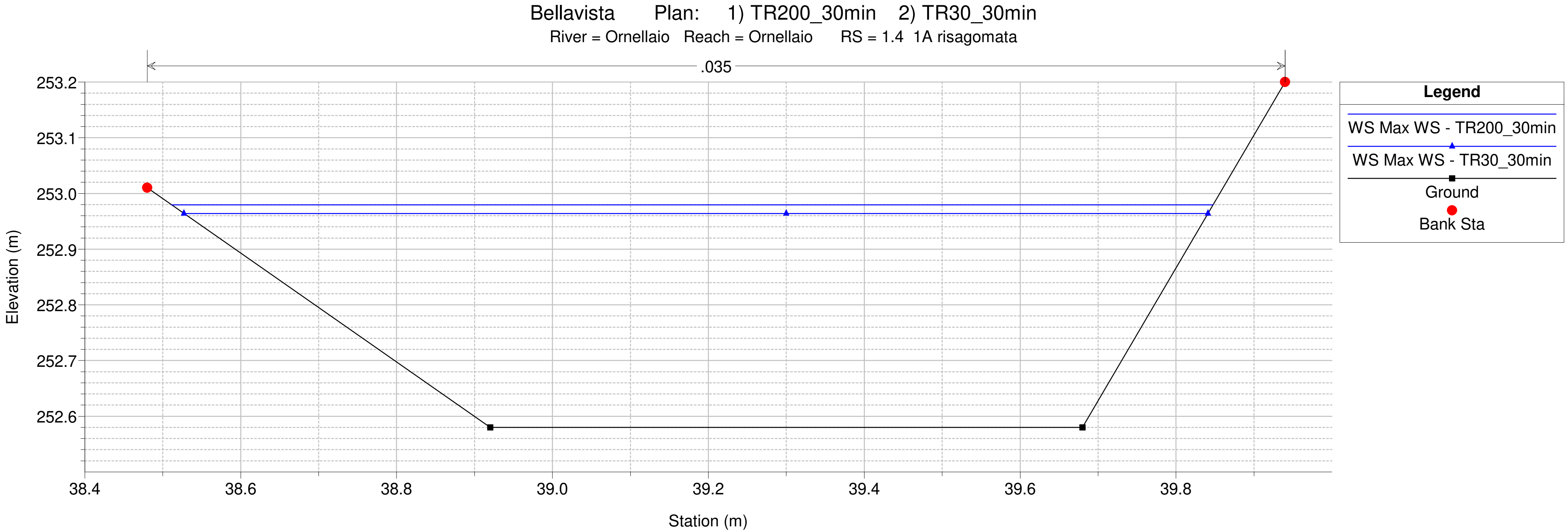


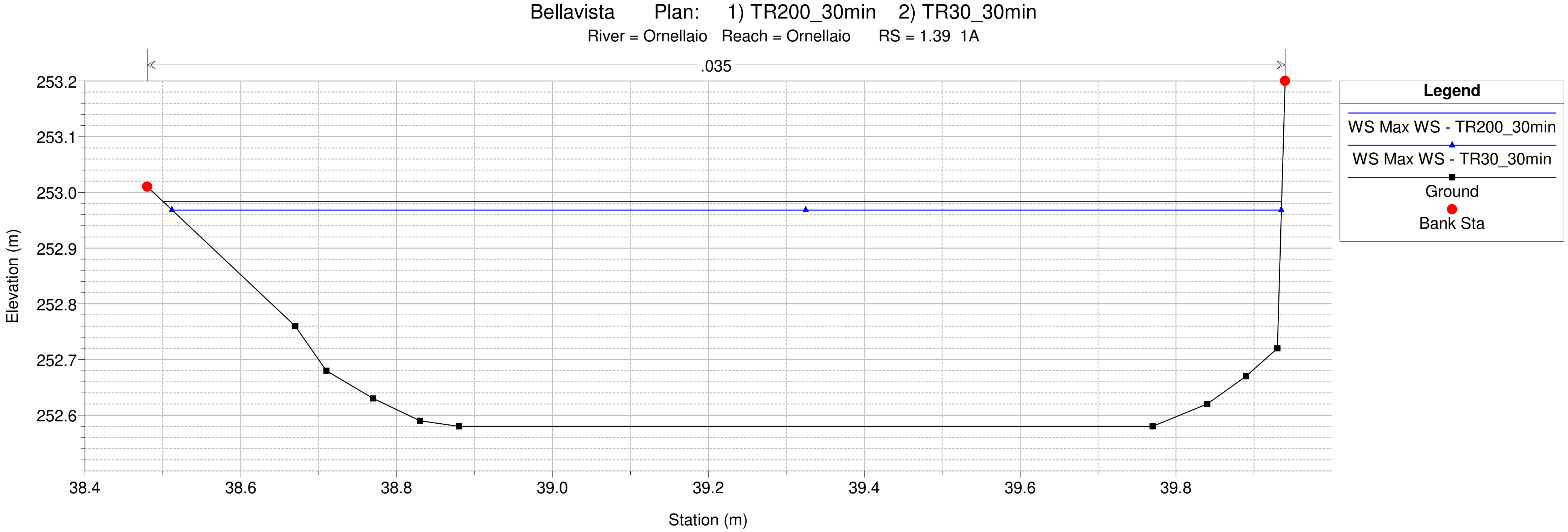
Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 2.3 2A_Imbocco tombino
.035
Elevation (m)
255.0
254.8
254.6
254.4
254.2
254.0
253.8
253.6
27.0
27.5
28.0
28.5
29.0
29.5
30.0
30.5
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 2.2 2B_imbocco tombino
.035
.04
Elevation (m)
Station (m)
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
253.6
28.0
28.5
29.0
29.5
30.0
30.5
31.0
31.5
32.0
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

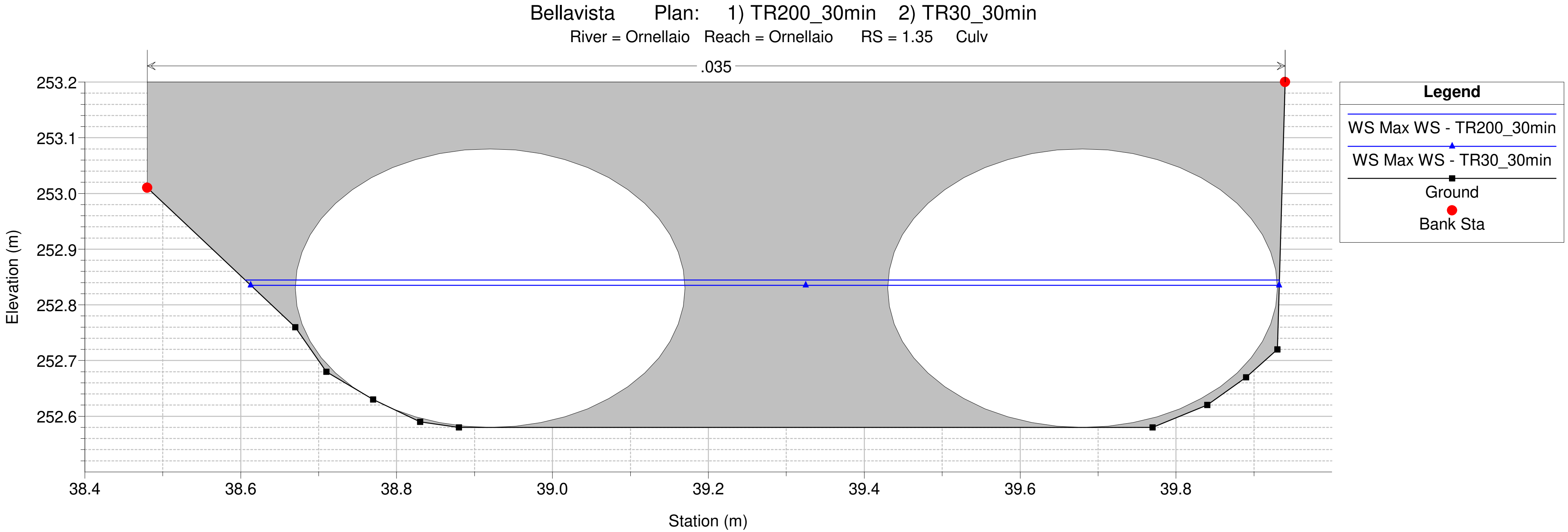

Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 2.15 Culv
.035
.04
Elevation (m)
Station (m)
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
253.6
28.0
28.5
29.0
29.5
30.0
30.5
31.0
31.5
32.0
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 2.1 2C_sbocco tombino
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

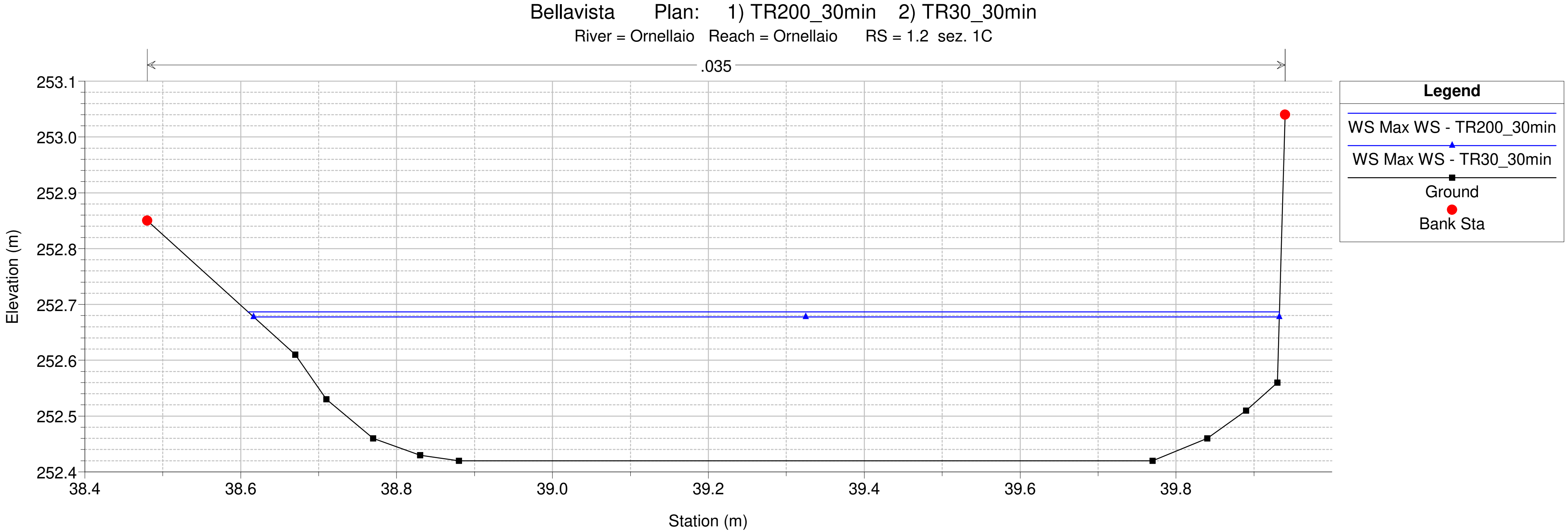

Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 1.4 1A risagomata
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

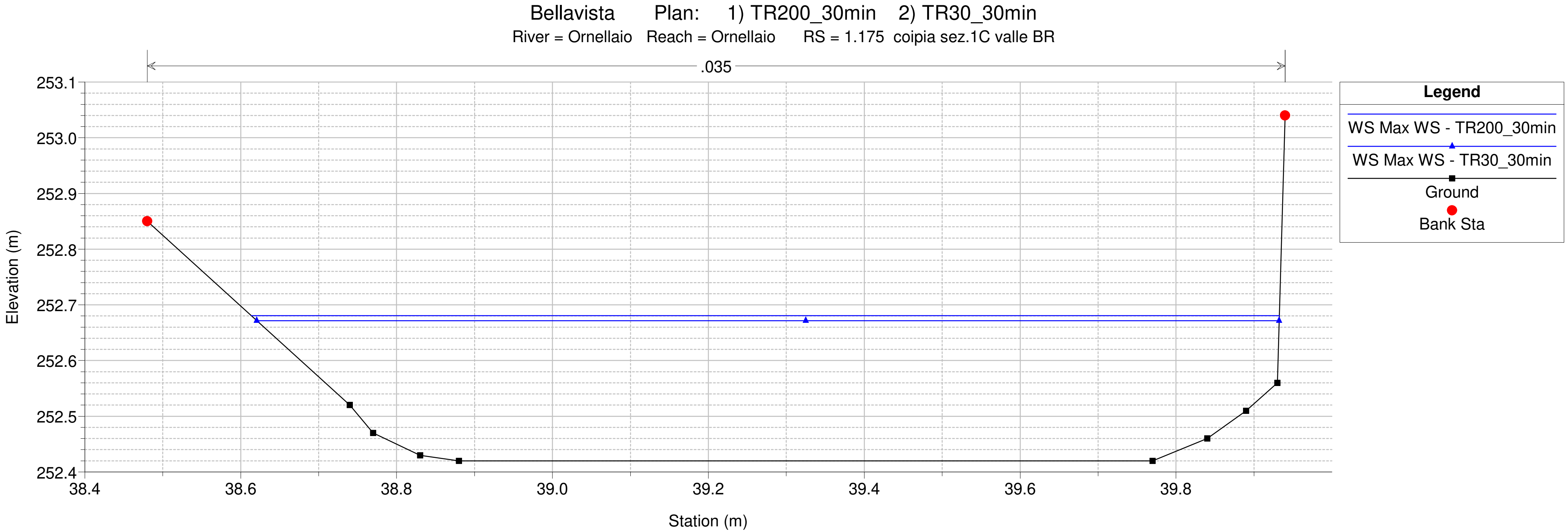


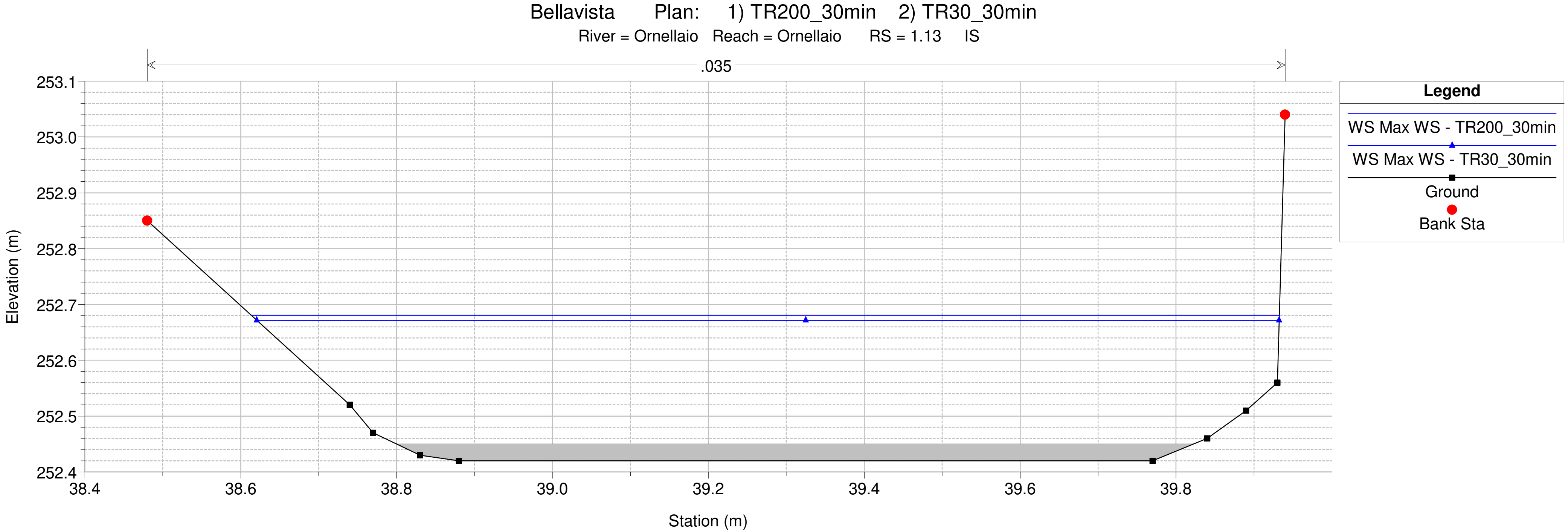
Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 1.39 1A
.035
253.2
253.1
253.0
252.9
252.8
252.7
252.6
Elevation (m)
38.4
38.6
38.8
39.0
39.2
39.4
39.6
39.8
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

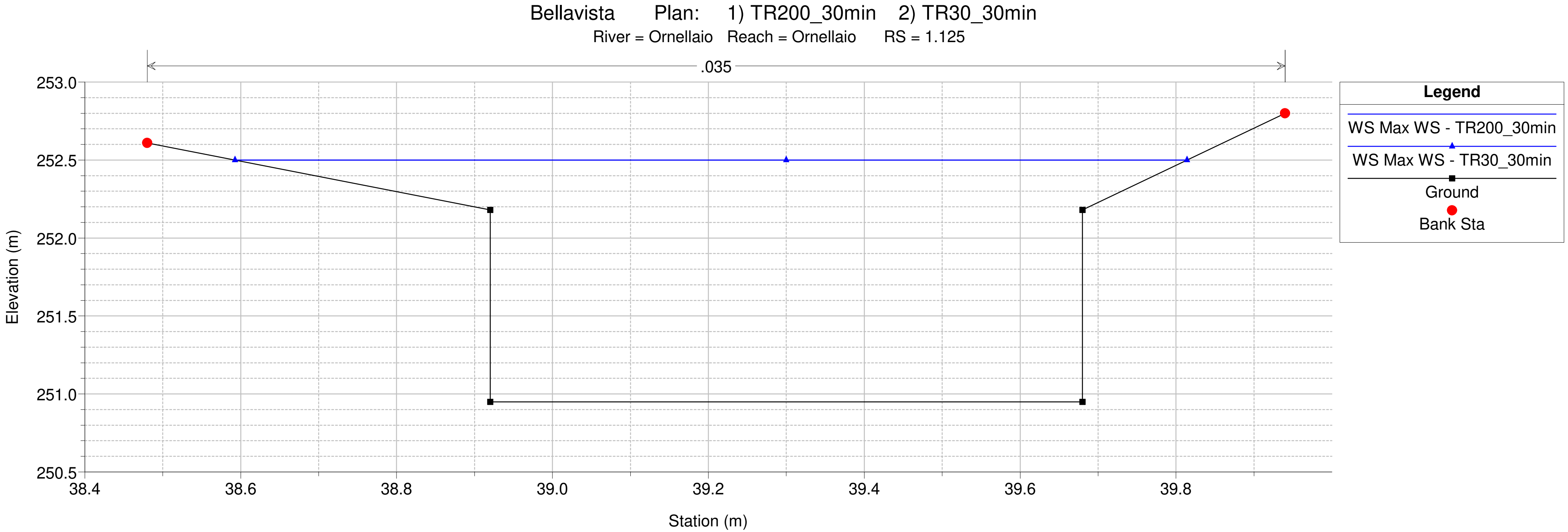


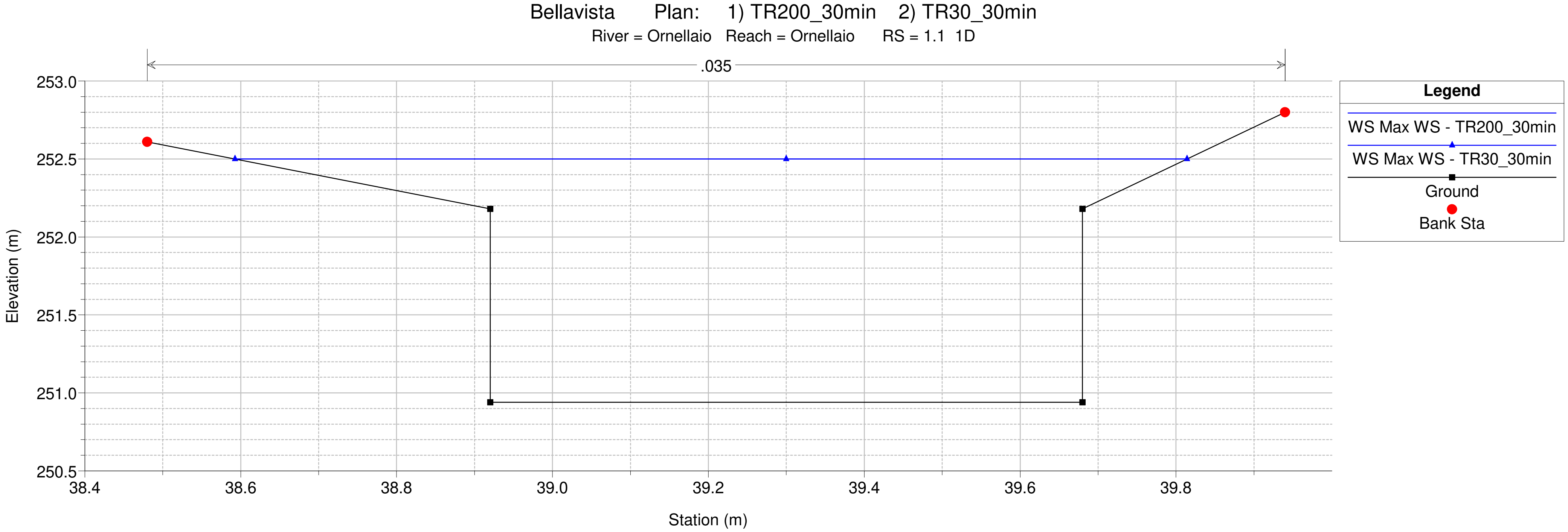
Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 1.35 Culv
.035
253.2
253.1
253.0
252.9
252.8
252.7
252.6
Elevation (m)
38.4
38.6
38.8
39.0
39.2
39.4
39.6
39.8
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 1.2 sez. 1C
.035
Elevation (m)
Station (m)
253.1
253.0
252.9
252.8
252.7
252.6
252.5
252.4
38.4
38.6
38.8
39.0
39.2
39.4
39.6
39.8
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 1.175 coipia sez.1C valle BR
.035
Elevation (m)
Station (m)
253.1
253.0
252.9
252.8
252.7
252.6
252.5
252.4
38.4
38.6
38.8
39.0
39.2
39.4
39.6
39.8
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 1.13 IS
.035
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)
253.1
253.0
252.9
252.8
252.7
252.6
252.5
252.4
38.4
38.6
38.8
39.0
39.2
39.4
39.6
39.8


Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 1.125
.035
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)
253.0
252.5
252.0
251.5
251.0
250.5
38.4
38.6
38.8
39.0
39.2
39.4
39.6
39.8


Bellavista Plan: 1) TR200_30min 2) TR30_30min
River = Ornellaio Reach = Ornellaio RS = 1.1 1D
.035
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
253.0
252.5
252.0
251.5
251.0
250.5
Station (m)
38.4
38.6
38.8
39.0
39.2
39.4
39.6
39.8

HEC-RAS River: Ornellaio Reach: Ornellaio Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornellaio	5.11	Max WS	TR200_30min	0.05	255.48	255.76		255.76	0.000330	0.17	0.29	1.30	0.11
Ornellaio	5.11	Max WS	TR200_45min	0.05	255.48	255.75		255.75	0.000367	0.18	0.28	1.29	0.12
Ornellaio	5.11	Max WS	TR200_1H	0.05	255.48	255.75		255.75	0.000399	0.18	0.27	1.28	0.13
Ornellaio	5.11	Max WS	TR200_2H	0.05	255.48	255.73	255.56	255.73	0.000507	0.20	0.25	1.25	0.14
Ornellaio	5.11	Max WS	TR30_30min	0.05	255.48	255.75		255.75	0.000379	0.18	0.28	1.29	0.12
Ornellaio	5.11	Max WS	TR30_45min	0.05	255.48	255.76		255.76	0.000345	0.17	0.29	1.30	0.12
Ornellaio	5.11	Max WS	TR30_1h	0.05	255.48	255.74		255.74	0.000463	0.19	0.26	1.26	0.13
Ornellaio	5.11	Max WS	TR30_2h	0.05	255.48	255.73		255.73	0.000532	0.20	0.25	1.25	0.14
Ornellaio	5.11	Max WS	TR200_3H	0.05	255.48	255.72	255.56	255.72	0.000602	0.21	0.24	1.23	0.15
Ornellaio	5.11	Max WS	TR30_3H	0.05	255.48	255.70	255.56	255.70	0.000832	0.24	0.21	1.20	0.18
Ornellaio	5.108	Max WS	TR200_30min	0.05	255.48	255.76		255.76	0.000330	0.17	0.29	1.30	0.11
Ornellaio	5.108	Max WS	TR200_45min	0.05	255.48	255.75		255.75	0.000368	0.18	0.28	1.29	0.12
Ornellaio	5.108	Max WS	TR200_1H	0.05	255.48	255.75		255.75	0.000399	0.18	0.27	1.28	0.13
Ornellaio	5.108	Max WS	TR200_2H	0.05	255.48	255.73	255.56	255.73	0.000507	0.20	0.25	1.25	0.14
Ornellaio	5.108	Max WS	TR30_30min	0.05	255.48	255.75		255.75	0.000379	0.18	0.28	1.29	0.12
Ornellaio	5.108	Max WS	TR30_45min	0.05	255.48	255.76		255.76	0.000345	0.17	0.29	1.30	0.12
Ornellaio	5.108	Max WS	TR30_1h	0.05	255.48	255.74		255.74	0.000463	0.19	0.26	1.26	0.13
Ornellaio	5.108	Max WS	TR30_2h	0.05	255.48	255.73		255.73	0.000532	0.20	0.25	1.25	0.14
Ornellaio	5.108	Max WS	TR200_3H	0.05	255.48	255.72	255.56	255.72	0.000602	0.21	0.24	1.23	0.15
Ornellaio	5.108	Max WS	TR30_3H	0.05	255.48	255.70	255.56	255.70	0.000832	0.24	0.21	1.20	0.18
Ornellaio	5.1	Max WS	TR200_30min	0.31	255.48	255.73		255.81	0.017377	1.17	0.26	1.26	0.83
Ornellaio	5.1	Max WS	TR200_45min	0.29	255.48	255.73		255.80	0.017464	1.16	0.25	1.25	0.83
Ornellaio	5.1	Max WS	TR200_1H	0.28	255.48	255.72		255.79	0.017534	1.15	0.24	1.24	0.83
Ornellaio	5.1	Max WS	TR200_2H	0.25	255.48	255.71	255.68	255.77	0.017512	1.10	0.22	1.21	0.82
Ornellaio	5.1	Max WS	TR30_30min	0.29	255.48	255.73		255.79	0.017499	1.15	0.25	1.25	0.83
Ornellaio	5.1	Max WS	TR30_45min	0.27	255.48	255.72		255.78	0.017542	1.13	0.24	1.23	0.82
Ornellaio	5.1	Max WS	TR30_1h	0.26	255.48	255.71		255.78	0.017590	1.12	0.23	1.22	0.82
Ornellaio	5.1	Max WS	TR30_2h	0.22	255.48	255.69		255.75	0.017523	1.06	0.20	1.19	0.82
Ornellaio	5.1	Max WS	TR200_3H	0.22	255.48	255.69	255.67	255.75	0.017483	1.07	0.21	1.19	0.82
Ornellaio	5.1	Max WS	TR30_3H	0.19	255.48	255.68	255.65	255.73	0.017808	1.03	0.19	1.16	0.82
Ornellaio	5.09			Lat Struct									
Ornellaio	5.08			Lat Struct									
Ornellaio	4	Max WS	TR200_30min	0.30	254.56	254.94		254.99	0.008628	0.94	0.33	1.22	0.58
Ornellaio	4	Max WS	TR200_45min	0.29	254.56	254.93		254.98	0.008668	0.93	0.31	1.20	0.58
Ornellaio	4	Max WS	TR200_1H	0.28	254.56	254.93		254.97	0.008699	0.92	0.30	1.18	0.58
Ornellaio	4	Max WS	TR200_2H	0.25	254.56	254.90	254.81	254.94	0.008846	0.89	0.28	1.14	0.58
Ornellaio	4	Max WS	TR30_30min	0.29	254.56	254.93		254.97	0.008683	0.92	0.31	1.19	0.58
Ornellaio	4	Max WS	TR30_45min	0.27	254.56	254.92		254.96	0.008705	0.91	0.30	1.17	0.58
Ornellaio	4	Max WS	TR30_1h	0.26	254.56	254.91		254.95	0.008781	0.90	0.29	1.16	0.58
Ornellaio	4	Max WS	TR30_2h	0.22	254.56	254.88		254.92	0.008925	0.87	0.25	1.09	0.58
Ornellaio	4	Max WS	TR200_3H	0.22	254.56	254.88	254.80	254.92	0.008945	0.88	0.26	1.11	0.58
Ornellaio	4	Max WS	TR30_3H	0.19	254.56	254.86	254.78	254.89	0.009077	0.85	0.23	1.06	0.58
Ornellaio	3.99			Lat Struct									
Ornellaio	3.98			Lat Struct									
Ornellaio	3	Max WS	TR200_30min	0.30	254.06	254.48		254.54	0.012045	1.08	0.28	0.92	0.62
Ornellaio	3	Max WS	TR200_45min	0.29	254.06	254.47		254.53	0.012584	1.08	0.27	0.90	0.63
Ornellaio	3	Max WS	TR200_1H	0.28	254.06	254.45		254.51	0.013033	1.09	0.26	0.89	0.64
Ornellaio	3	Max WS	TR200_2H	0.25	254.06	254.42	254.35	254.48	0.014228	1.09	0.23	0.85	0.67
Ornellaio	3	Max WS	TR30_30min	0.28	254.06	254.46		254.52	0.012879	1.09	0.26	0.89	0.64
Ornellaio	3	Max WS	TR30_45min	0.27	254.06	254.44		254.50	0.014348	1.12	0.24	0.87	0.68
Ornellaio	3	Max WS	TR30_1h	0.26	254.06	254.43		254.49	0.013838	1.09	0.24	0.86	0.66
Ornellaio	3	Max WS	TR30_2h	0.22	254.06	254.38		254.44	0.016382	1.11	0.19	0.81	0.72
Ornellaio	3	Max WS	TR200_3H	0.22	254.06	254.40	254.33	254.46	0.015134	1.09	0.21	0.82	0.69
Ornellaio	3	Max WS	TR30_3H	0.19	254.06	254.36	254.31	254.42	0.016284	1.07	0.18	0.79	0.72
Ornellaio	2.3	Max WS	TR200_30min	0.30	253.76	254.41		254.42	0.000273	0.25	1.20	2.51	0.12
Ornellaio	2.3	Max WS	TR200_45min	0.29	253.76	254.39		254.40	0.000280	0.25	1.15	2.47	0.12
Ornellaio	2.3	Max WS	TR200_1H	0.28	253.76	254.38		254.38	0.000286	0.25	1.11	2.43	0.12
Ornellaio	2.3	Max WS	TR200_2H	0.25	253.76	254.33	253.92	254.33	0.000302	0.25	0.99	2.33	0.12
Ornellaio	2.3	Max WS	TR30_30min	0.28	253.76	254.38		254.39	0.000283	0.25	1.13	2.45	0.12
Ornellaio	2.3	Max WS	TR30_45min	0.27	253.76	254.36		254.36	0.000291	0.25	1.07	2.40	0.12
Ornellaio	2.3	Max WS	TR30_1h	0.26	253.76	254.34		254.35	0.000297	0.25	1.03	2.37	0.12
Ornellaio	2.3	Max WS	TR30_2h	0.22	253.76	254.28		254.28	0.000315	0.24	0.89	2.24	0.12
Ornellaio	2.3	Max WS	TR200_3H	0.22	253.76	254.29	253.91	254.30	0.000312	0.24	0.92	2.26	0.12
Ornellaio	2.3	Max WS	TR30_3H	0.19	253.76	254.25	253.89	254.25	0.000324	0.24	0.81	2.17	0.12
Ornellaio	2.2	Max WS	TR200_30min	0.30	253.76	254.41		254.42	0.000280	0.25	1.19	2.33	0.11
Ornellaio	2.2	Max WS	TR200_45min	0.29	253.76	254.39		254.39	0.000287	0.25	1.14	2.30	0.11
Ornellaio	2.2	Max WS	TR200_1H	0.28	253.76	254.37		254.38	0.000291	0.25	1.10	2.27	0.12
Ornellaio	2.2	Max WS	TR200_2H	0.25	253.76	254.33		254.33	0.000302	0.25	1.00	2.20	0.12
Ornellaio	2.2	Max WS	TR30_30min	0.28	253.76	254.38		254.39	0.000289	0.25	1.12	2.28	0.12
Ornellaio	2.2	Max WS	TR30_45min	0.27	253.76	254.36		254.36	0.000295	0.25	1.07	2.25	0.12
Ornellaio	2.2	Max WS	TR30_1h	0.26	253.76	254.34		254.35	0.000298	0.25	1.03	2.22	0.12
Ornellaio	2.2	Max WS	TR30_2h	0.22	253.76	254.28		254.28	0.000311	0.24	0.89	2.13	0.12
Ornellaio	2.2	Max WS	TR200_3H	0.22	253.76	254.29		254.30	0.000308	0.24	0.92	2.15	0.12
Ornellaio	2.2	Max WS	TR30_3H	0.19	253.76	254.24		254.25	0.000315	0.23	0.82	2.07	0.12
Ornellaio	2.15			Culvert									
Ornellaio	2.1	Max WS	TR200_30min	0.30	253.63	253.83		253.90	0.019882	1.14	0.26	1.59	0.89

HEC-RAS River: Ornellaio Reach: Ornellaio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornellaio	2.1	Max WS	TR200_45min	0.29	253.63	253.82		253.89	0.019963	1.13	0.26	1.58	0.89
Ornellaio	2.1	Max WS	TR200_1H	0.28	253.63	253.82		253.88	0.019976	1.11	0.25	1.57	0.89
Ornellaio	2.1	Max WS	TR200_2H	0.25	253.63	253.81	253.80	253.87	0.019961	1.07	0.23	1.54	0.88
Ornellaio	2.1	Max WS	TR30_30min	0.28	253.63	253.82		253.89	0.020060	1.12	0.25	1.57	0.89
Ornellaio	2.1	Max WS	TR30_45min	0.27	253.63	253.82		253.88	0.019962	1.10	0.24	1.56	0.89
Ornellaio	2.1	Max WS	TR30_1h	0.26	253.63	253.81		253.87	0.019955	1.09	0.24	1.55	0.89
Ornellaio	2.1	Max WS	TR30_2h	0.22	253.63	253.79		253.85	0.019792	1.02	0.21	1.52	0.87
Ornellaio	2.1	Max WS	TR200_3H	0.22	253.63	253.80	253.78	253.85	0.019737	1.03	0.22	1.52	0.87
Ornellaio	2.1	Max WS	TR30_3H	0.19	253.63	253.78	253.77	253.83	0.020340	0.99	0.19	1.49	0.88
Ornellaio	2.09			Lat Struct									
Ornellaio	2.08			Lat Struct									
Ornellaio	1.4	Max WS	TR200_30min	0.30	252.58	252.98		253.01	0.004372	0.72	0.42	1.34	0.41
Ornellaio	1.4	Max WS	TR200_45min	0.29	252.58	252.97		252.99	0.004383	0.72	0.40	1.32	0.41
Ornellaio	1.4	Max WS	TR200_1H	0.28	252.58	252.96		252.99	0.004381	0.71	0.39	1.31	0.41
Ornellaio	1.4	Max WS	TR200_2H	0.25	252.58	252.93	252.79	252.96	0.004376	0.68	0.36	1.27	0.41
Ornellaio	1.4	Max WS	TR30_30min	0.28	252.58	252.96		252.99	0.004387	0.71	0.40	1.31	0.41
Ornellaio	1.4	Max WS	TR30_45min	0.27	252.58	252.95		252.98	0.004483	0.71	0.38	1.29	0.42
Ornellaio	1.4	Max WS	TR30_1h	0.26	252.58	252.94		252.97	0.004384	0.69	0.37	1.28	0.41
Ornellaio	1.4	Max WS	TR30_2h	0.22	252.58	252.91		252.93	0.004427	0.66	0.33	1.23	0.41
Ornellaio	1.4	Max WS	TR200_3H	0.22	252.58	252.92	252.78	252.94	0.004343	0.66	0.34	1.24	0.41
Ornellaio	1.4	Max WS	TR30_3H	0.19	252.58	252.89	252.76	252.91	0.004273	0.63	0.30	1.21	0.40
Ornellaio	1.39	Max WS	TR200_30min	0.30	252.58	252.98		253.00	0.002615	0.60	0.51	1.44	0.32
Ornellaio	1.39	Max WS	TR200_45min	0.29	252.58	252.97		252.99	0.002598	0.59	0.49	1.43	0.32
Ornellaio	1.39	Max WS	TR200_1H	0.28	252.58	252.96		252.98	0.002577	0.58	0.48	1.42	0.32
Ornellaio	1.39	Max WS	TR200_2H	0.25	252.58	252.94		252.95	0.002519	0.56	0.44	1.40	0.32
Ornellaio	1.39	Max WS	TR30_30min	0.28	252.58	252.97		252.99	0.002590	0.58	0.49	1.42	0.32
Ornellaio	1.39	Max WS	TR30_45min	0.27	252.58	252.96		252.97	0.002561	0.57	0.47	1.41	0.32
Ornellaio	1.39	Max WS	TR30_1h	0.26	252.58	252.95		252.96	0.002543	0.56	0.46	1.41	0.32
Ornellaio	1.39	Max WS	TR30_2h	0.22	252.58	252.91		252.93	0.002445	0.53	0.41	1.38	0.31
Ornellaio	1.39	Max WS	TR200_3H	0.22	252.58	252.92		252.93	0.002468	0.54	0.42	1.39	0.31
Ornellaio	1.39	Max WS	TR30_3H	0.19	252.58	252.89		252.91	0.002382	0.51	0.38	1.36	0.31
Ornellaio	1.35			Culvert									
Ornellaio	1.2	Max WS	TR200_30min	0.30	252.42	252.69		252.73	0.009920	0.96	0.32	1.32	0.62
Ornellaio	1.2	Max WS	TR200_45min	0.29	252.42	252.68		252.73	0.009757	0.94	0.31	1.32	0.62
Ornellaio	1.2	Max WS	TR200_1H	0.28	252.42	252.68		252.72	0.009632	0.92	0.30	1.31	0.61
Ornellaio	1.2	Max WS	TR200_2H	0.25	252.42	252.66	252.59	252.70	0.009214	0.87	0.28	1.30	0.60
Ornellaio	1.2	Max WS	TR30_30min	0.28	252.42	252.68		252.72	0.009699	0.93	0.31	1.32	0.62
Ornellaio	1.2	Max WS	TR30_45min	0.27	252.42	252.67		252.71	0.009408	0.90	0.30	1.31	0.61
Ornellaio	1.2	Max WS	TR30_1h	0.26	252.42	252.67		252.71	0.009371	0.89	0.29	1.31	0.60
Ornellaio	1.2	Max WS	TR30_2h	0.22	252.42	252.65		252.68	0.008665	0.82	0.26	1.29	0.58
Ornellaio	1.2	Max WS	TR200_3H	0.22	252.42	252.65	252.58	252.68	0.008913	0.84	0.27	1.29	0.59
Ornellaio	1.2	Max WS	TR30_3H	0.19	252.42	252.63	252.57	252.66	0.008402	0.78	0.25	1.28	0.57
Ornellaio	1.175	Max WS	TR200_30min	0.30	252.42	252.68	252.62	252.73	0.010941	0.99	0.31	1.32	0.65
Ornellaio	1.175	Max WS	TR200_45min	0.29	252.42	252.67	252.61	252.72	0.010796	0.97	0.30	1.31	0.65
Ornellaio	1.175	Max WS	TR200_1H	0.28	252.42	252.67	252.61	252.72	0.010638	0.95	0.29	1.31	0.64
Ornellaio	1.175	Max WS	TR200_2H	0.25	252.42	252.65	252.60	252.70	0.010202	0.90	0.27	1.30	0.63
Ornellaio	1.175	Max WS	TR30_30min	0.28	252.42	252.67	252.61	252.72	0.010699	0.96	0.29	1.31	0.65
Ornellaio	1.175	Max WS	TR30_45min	0.27	252.42	252.66	252.61	252.71	0.010529	0.94	0.29	1.31	0.64
Ornellaio	1.175	Max WS	TR30_1h	0.26	252.42	252.66	252.60	252.70	0.010352	0.92	0.28	1.30	0.64
Ornellaio	1.175	Max WS	TR30_2h	0.22	252.42	252.64	252.58	252.68	0.009758	0.85	0.25	1.29	0.62
Ornellaio	1.175	Max WS	TR200_3H	0.22	252.42	252.64	252.59	252.68	0.009923	0.87	0.26	1.29	0.62
Ornellaio	1.175	Max WS	TR30_3H	0.19	252.42	252.63	252.57	252.66	0.009400	0.81	0.24	1.28	0.60
Ornellaio	1.13			Inl Struct									
Ornellaio	1.125	Max WS	TR200_30min	0.29	250.95	252.50		252.50	0.000321	0.24	1.25	1.22	0.07
Ornellaio	1.125	Max WS	TR200_45min	0.27	250.95	252.50		252.50	0.000275	0.22	1.25	1.22	0.07
Ornellaio	1.125	Max WS	TR200_1H	0.27	250.95	252.50		252.50	0.000278	0.22	1.25	1.22	0.07
Ornellaio	1.125	Max WS	TR200_2H	0.22	250.95	252.50	251.16	252.50	0.000185	0.18	1.25	1.22	0.06
Ornellaio	1.125	Max WS	TR30_30min	0.27	250.95	252.50		252.50	0.000275	0.22	1.25	1.22	0.07
Ornellaio	1.125	Max WS	TR30_45min	0.25	250.95	252.50		252.50	0.000232	0.20	1.25	1.22	0.06
Ornellaio	1.125	Max WS	TR30_1h	0.25	250.95	252.50		252.50	0.000233	0.20	1.25	1.22	0.06
Ornellaio	1.125	Max WS	TR30_2h	0.19	250.95	252.50		252.50	0.000140	0.16	1.25	1.22	0.05
Ornellaio	1.125	Max WS	TR200_3H	0.19	250.95	252.50	251.14	252.50	0.000139	0.15	1.25	1.22	0.05
Ornellaio	1.125	Max WS	TR30_3H	0.16	250.95	252.50	251.11	252.50	0.000093	0.13	1.25	1.22	0.04
Ornellaio	1.1	Max WS	TR200_30min	0.09	250.94	252.50	251.05	252.50	0.000029	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR200_45min	0.09	250.94	252.50	251.05	252.50	0.000029	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR200_1H	0.09	250.94	252.50	251.05	252.50	0.000029	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR200_2H	0.09	250.94	252.50	251.05	252.50	0.000028	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR30_30min	0.09	250.94	252.50	251.05	252.50	0.000029	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR30_45min	0.09	250.94	252.50	251.05	252.50	0.000028	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR30_1h	0.09	250.94	252.50	251.05	252.50	0.000029	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR30_2h	0.09	250.94	252.50	251.05	252.50	0.000028	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR200_3H	0.09	250.94	252.50	251.05	252.50	0.000028	0.07	1.26	1.22	0.02
Ornellaio	1.1	Max WS	TR30_3H	0.09	250.94	252.50	251.05	252.50	0.000028	0.07	1.26	1.22	0.02

HEC-RAS River: Ornellaio Reach: Ornellaio Profile: Max WS

Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
Ornellaio	5.09	Max WS	TR200_30min	0.31	0.00	0.30	0.00					255.64	255.80	255.73	254.99	254.94
Ornellaio	5.09	Max WS	TR200_45min	0.29	0.00	0.29	0.00					255.64	255.80	255.73	254.98	254.93
Ornellaio	5.09	Max WS	TR200_1H	0.28	0.00	0.28	0.00					255.64	255.79	255.72	254.97	254.93
Ornellaio	5.09	Max WS	TR200_2H	0.25	0.00	0.25	0.00					255.64	255.77	255.71	254.94	254.90
Ornellaio	5.09	Max WS	TR30_30min	0.29	0.00	0.29	0.00					255.64	255.79	255.72	254.97	254.93
Ornellaio	5.09	Max WS	TR30_45min	0.27	0.00	0.27	0.00					255.64	255.78	255.72	254.96	254.92
Ornellaio	5.09	Max WS	TR30_1h	0.26	0.00	0.26	0.00					255.64	255.77	255.71	254.95	254.91
Ornellaio	5.09	Max WS	TR30_2h	0.22	0.00	0.22	0.00					255.64	255.75	255.69	254.92	254.88
Ornellaio	5.09	Max WS	TR200_3H	0.22	0.00	0.22	0.00					255.64	255.75	255.69	254.92	254.88
Ornellaio	5.09	Max WS	TR30_3H	0.19	0.00	0.19	0.00					255.64	255.73	255.67	254.89	254.86
Ornellaio	5.08	Max WS	TR200_30min	0.31	0.00	0.30	0.00					254.95	255.80	255.73	254.99	254.94
Ornellaio	5.08	Max WS	TR200_45min	0.29	0.00	0.29	0.00					254.95	255.80	255.73	254.98	254.93
Ornellaio	5.08	Max WS	TR200_1H	0.28	0.00	0.28	0.00					254.95	255.79	255.72	254.97	254.93
Ornellaio	5.08	Max WS	TR200_2H	0.25	0.00	0.25	0.00					254.95	255.77	255.71	254.94	254.90
Ornellaio	5.08	Max WS	TR30_30min	0.29	0.00	0.29	0.00					254.95	255.79	255.72	254.97	254.93
Ornellaio	5.08	Max WS	TR30_45min	0.27	0.00	0.27	0.00					254.95	255.78	255.72	254.96	254.92
Ornellaio	5.08	Max WS	TR30_1h	0.26	0.00	0.26	0.00					254.95	255.77	255.71	254.95	254.91
Ornellaio	5.08	Max WS	TR30_2h	0.22	0.00	0.22	0.00					254.95	255.75	255.69	254.92	254.88
Ornellaio	5.08	Max WS	TR200_3H	0.22	0.00	0.22	0.00					254.95	255.75	255.69	254.92	254.88
Ornellaio	5.08	Max WS	TR30_3H	0.19	0.00	0.19	0.00					254.95	255.73	255.67	254.89	254.86
Ornellaio	3.99	Max WS	TR200_30min	0.30	0.00	0.30	0.00					254.79	254.99	254.94	254.42	254.41
Ornellaio	3.99	Max WS	TR200_45min	0.29	0.00	0.29	0.00					254.79	254.98	254.93	254.39	254.39
Ornellaio	3.99	Max WS	TR200_1H	0.28	0.00	0.28	0.00					254.79	254.97	254.92	254.38	254.37
Ornellaio	3.99	Max WS	TR200_2H	0.25	0.00	0.25	0.00					254.79	254.94	254.90	254.33	254.33
Ornellaio	3.99	Max WS	TR30_30min	0.29	0.00	0.28	0.00					254.79	254.97	254.93	254.39	254.38
Ornellaio	3.99	Max WS	TR30_45min	0.27	0.00	0.27	0.00					254.79	254.96	254.92	254.36	254.36
Ornellaio	3.99	Max WS	TR30_1h	0.26	0.00	0.26	0.00					254.79	254.95	254.91	254.35	254.34
Ornellaio	3.99	Max WS	TR30_2h	0.22	0.00	0.22	0.00					254.79	254.92	254.88	254.28	254.28
Ornellaio	3.99	Max WS	TR200_3H	0.22	0.00	0.22	0.00					254.79	254.92	254.88	254.30	254.29
Ornellaio	3.99	Max WS	TR30_3H	0.19	0.00	0.19	0.00					254.79	254.89	254.86	254.25	254.24
Ornellaio	3.98	Max WS	TR200_30min	0.30	0.00	0.30	0.00					254.64	254.99	254.94	254.42	254.41
Ornellaio	3.98	Max WS	TR200_45min	0.29	0.00	0.29	0.00					254.64	254.98	254.93	254.39	254.39
Ornellaio	3.98	Max WS	TR200_1H	0.28	0.00	0.28	0.00					254.64	254.97	254.92	254.38	254.37
Ornellaio	3.98	Max WS	TR200_2H	0.25	0.00	0.25	0.00					254.64	254.94	254.90	254.33	254.33
Ornellaio	3.98	Max WS	TR30_30min	0.29	0.00	0.28	0.00					254.64	254.97	254.93	254.39	254.38
Ornellaio	3.98	Max WS	TR30_45min	0.27	0.00	0.27	0.00					254.64	254.96	254.92	254.36	254.36
Ornellaio	3.98	Max WS	TR30_1h	0.26	0.00	0.26	0.00					254.64	254.95	254.91	254.35	254.34
Ornellaio	3.98	Max WS	TR30_2h	0.22	0.00	0.22	0.00					254.64	254.92	254.88	254.28	254.28
Ornellaio	3.98	Max WS	TR200_3H	0.22	0.00	0.22	0.00					254.64	254.92	254.88	254.30	254.29
Ornellaio	3.98	Max WS	TR30_3H	0.19	0.00	0.19	0.00					254.64	254.89	254.86	254.25	254.24
Ornellaio	2.09	Max WS	TR200_30min	0.30	0.00	0.30	0.00					253.20	253.90	253.83	253.00	252.98
Ornellaio	2.09	Max WS	TR200_45min	0.29	0.00	0.29	0.00					253.20	253.89	253.82	252.99	252.97
Ornellaio	2.09	Max WS	TR200_1H	0.28	0.00	0.28	0.00					253.20	253.88	253.82	252.98	252.96
Ornellaio	2.09	Max WS	TR200_2H	0.25	0.00	0.25	0.00					253.20	253.87	253.81	252.96	252.94
Ornellaio	2.09	Max WS	TR30_30min	0.28	0.00	0.28	0.00					253.20	253.89	253.82	252.99	252.97
Ornellaio	2.09	Max WS	TR30_45min	0.27	0.00	0.27	0.00					253.20	253.88	253.82	252.97	252.96
Ornellaio	2.09	Max WS	TR30_1h	0.26	0.00	0.26	0.00					253.20	253.87	253.81	252.96	252.95
Ornellaio	2.09	Max WS	TR30_2h	0.22	0.00	0.22	0.00					253.20	253.85	253.79	252.93	252.91
Ornellaio	2.09	Max WS	TR200_3H	0.22	0.00	0.22	0.00					253.20	253.85	253.80	252.94	252.92
Ornellaio	2.09	Max WS	TR30_3H	0.19	0.00	0.19	0.00					253.20	253.83	253.78	252.91	252.89
Ornellaio	2.08	Max WS	TR200_30min	0.30	0.00	0.30	0.00					253.01	253.90	253.83	253.00	252.98
Ornellaio	2.08	Max WS	TR200_45min	0.29	0.00	0.29	0.00					253.01	253.89	253.82	252.99	252.97
Ornellaio	2.08	Max WS	TR200_1H	0.28	0.00	0.28	0.00					253.01	253.88	253.82	252.98	252.96
Ornellaio	2.08	Max WS	TR200_2H	0.25	0.00	0.25	0.00					253.01	253.87	253.81	252.96	252.94
Ornellaio	2.08	Max WS	TR30_30min	0.28	0.00	0.28	0.00					253.01	253.89	253.82	252.99	252.97
Ornellaio	2.08	Max WS	TR30_45min	0.27	0.00	0.27	0.00					253.01	253.88	253.82	252.97	252.96
Ornellaio	2.08	Max WS	TR30_1h	0.26	0.00	0.26	0.00					253.01	253.87	253.81	252.96	252.95
Ornellaio	2.08	Max WS	TR30_2h	0.22	0.00	0.22	0.00					253.01	253.85	253.79	252.93	252.91
Ornellaio	2.08	Max WS	TR200_3H	0.22	0.00	0.22	0.00					253.01	253.85	253.80	252.94	252.92
Ornellaio	2.08	Max WS	TR30_3H	0.19	0.00	0.19	0.00					253.01	253.83	253.78	252.91	252.89

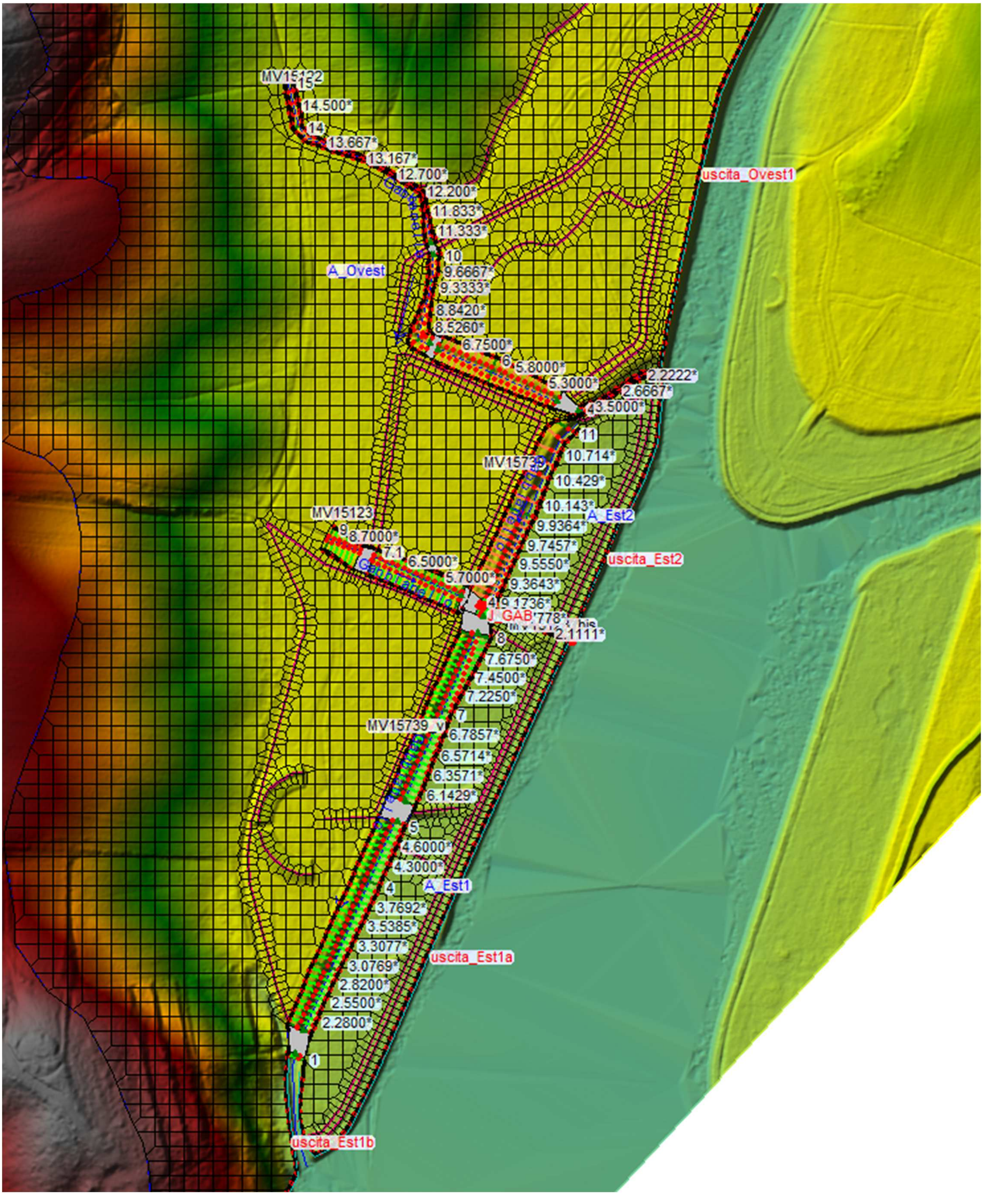
Gabbianello

Fosso MV15122

Fosso MV15739

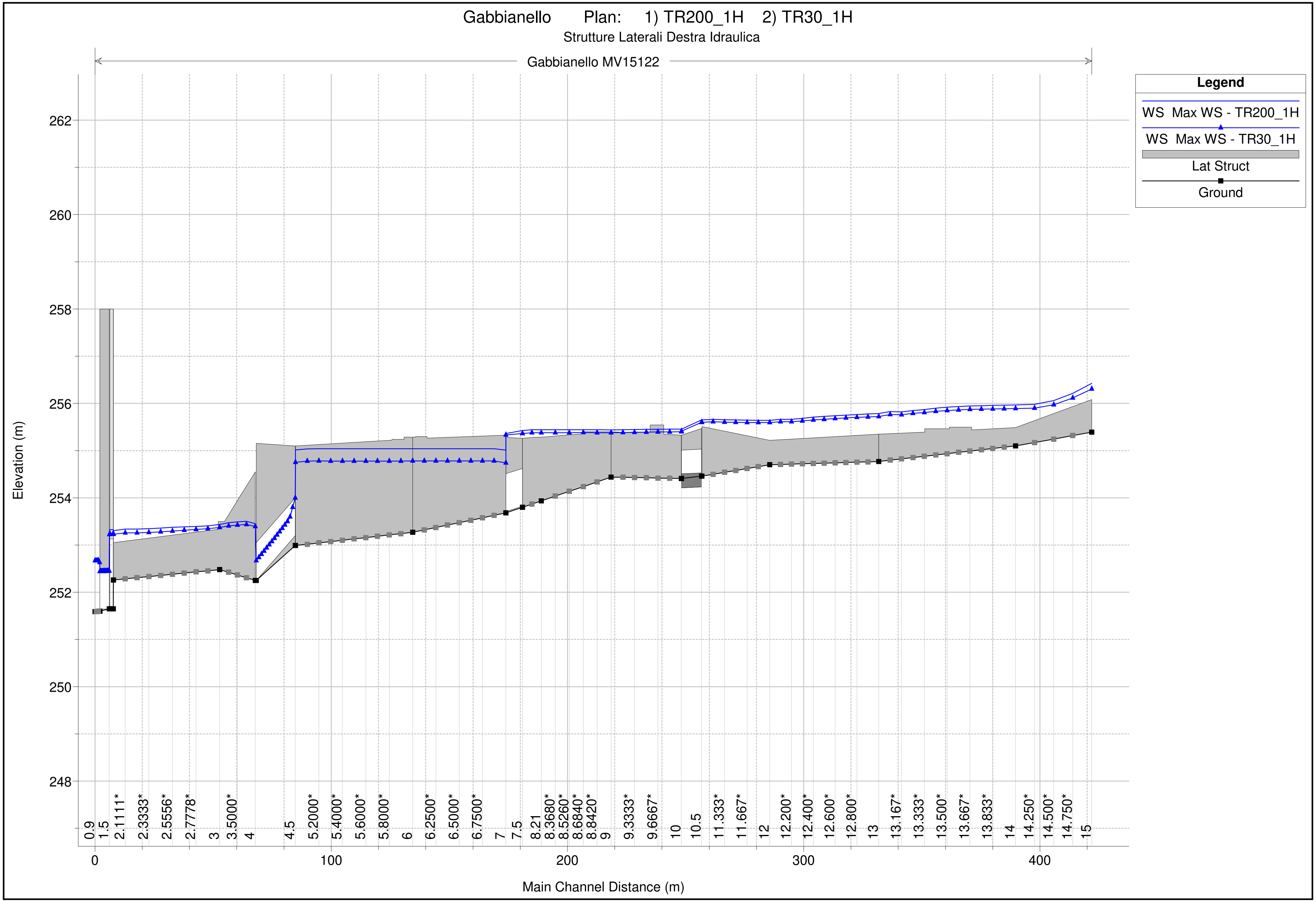
Fosso MV15123

Fosso MV15123_bis

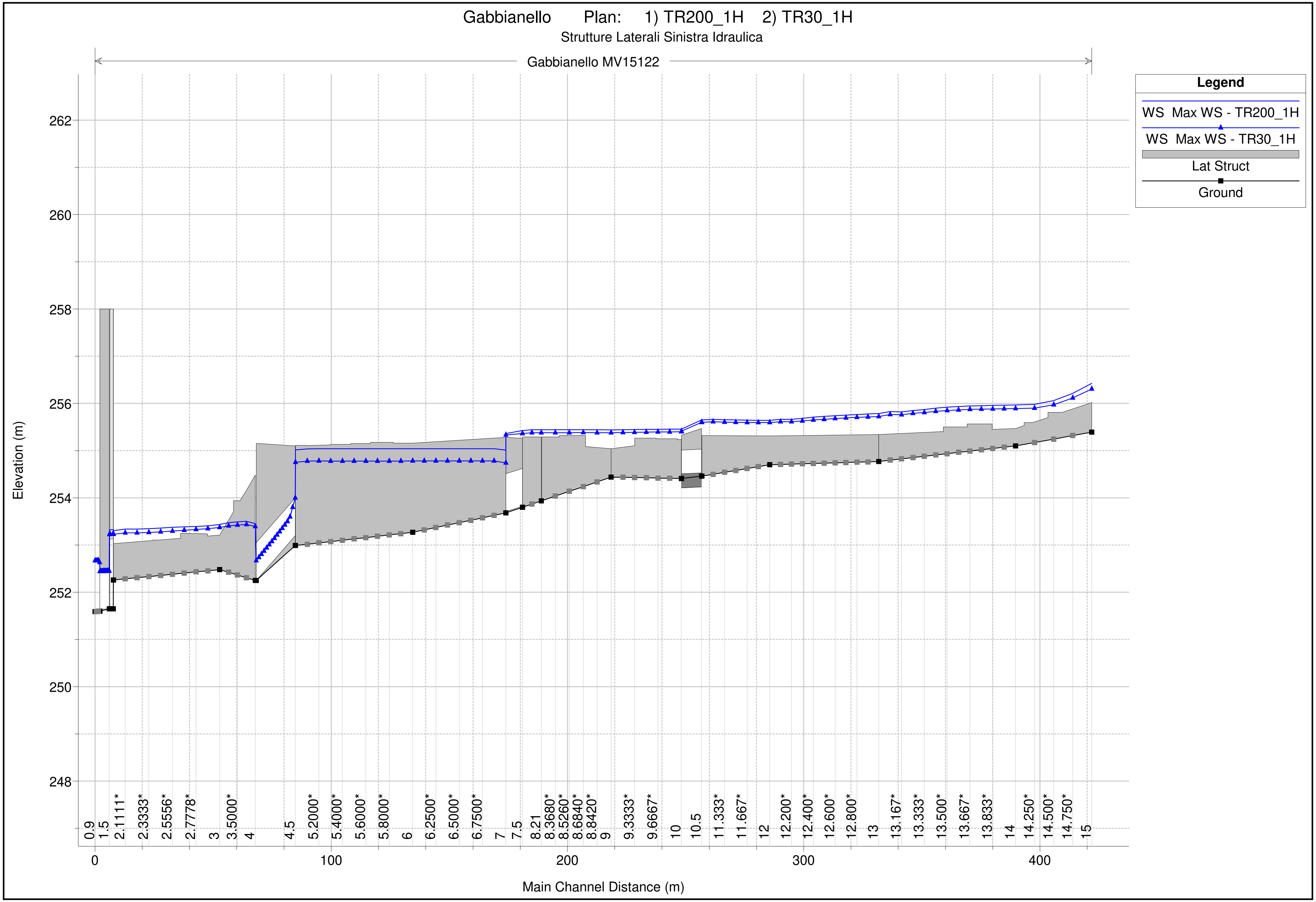

MV15122
15
14.500*
14
13.667*
13.167*
12.700*
12.200*
11.833*
11.333*
10
A_Ovest
9.6667*
9.3333*
8.8420*
8.5260*
6.7500*
6
5.8000*
5.3000*
2.2222*
2.6667*
4
3.5000*
uscita_Ovest1
11
10.714*
MV15739
10.429*
10.143*
A_Est2
9.9364*
9.7457*
uscita_Est2
9.5550*
9.3643*
9.1736*
MV15123
9
8.7000*
7.1
6.5000*
5.7000*
J_GAB
2.1111*
8
7.6750*
7.4500*
7.2250*
7
MV15739_v
6.7857*
6.5714*
6.3571*
6.1429*
5
4.6000*
4.3000*
4
A_Est1
3.7692*
3.5385*
3.3077*
uscita_Est1a
3.0769*
2.8200*
2.5500*
2.2800*
1
uscita_Est1b

FOSSO

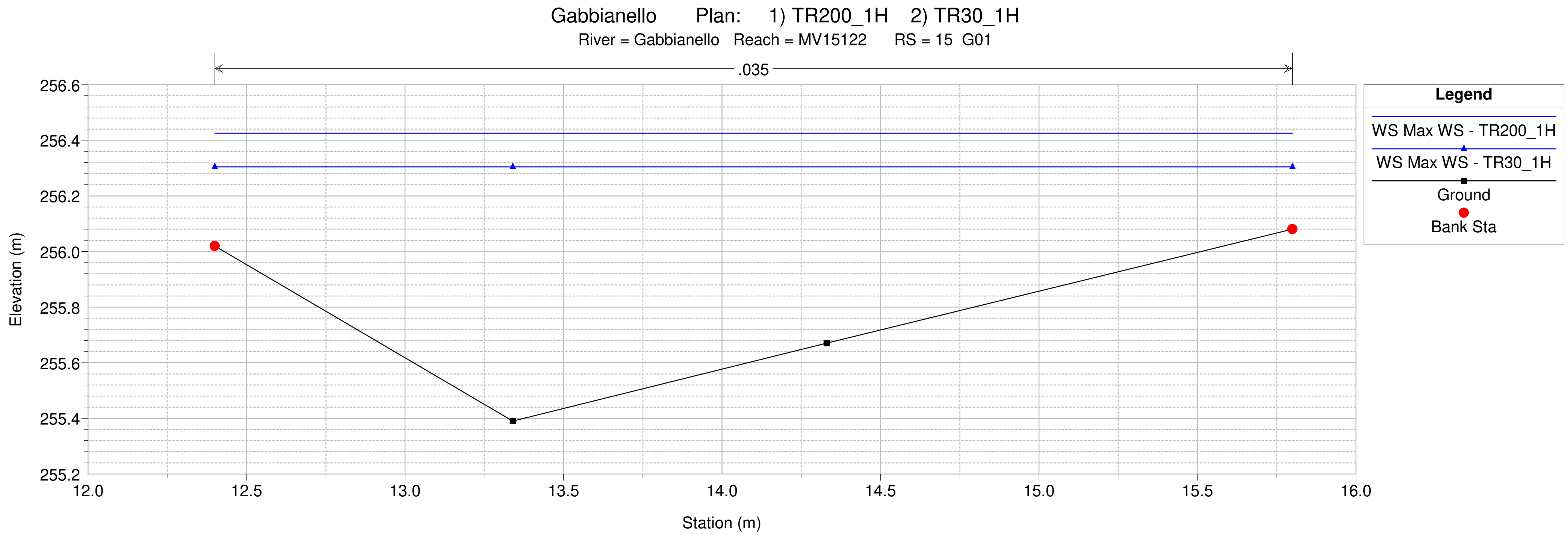
MV15122

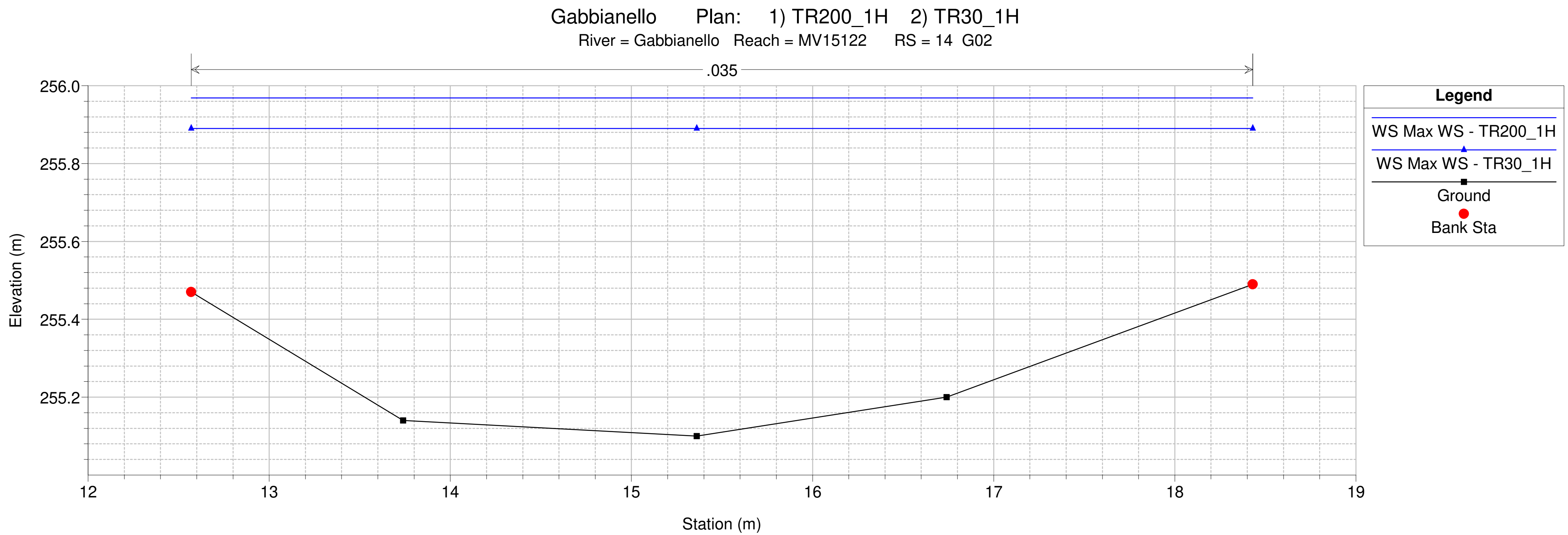


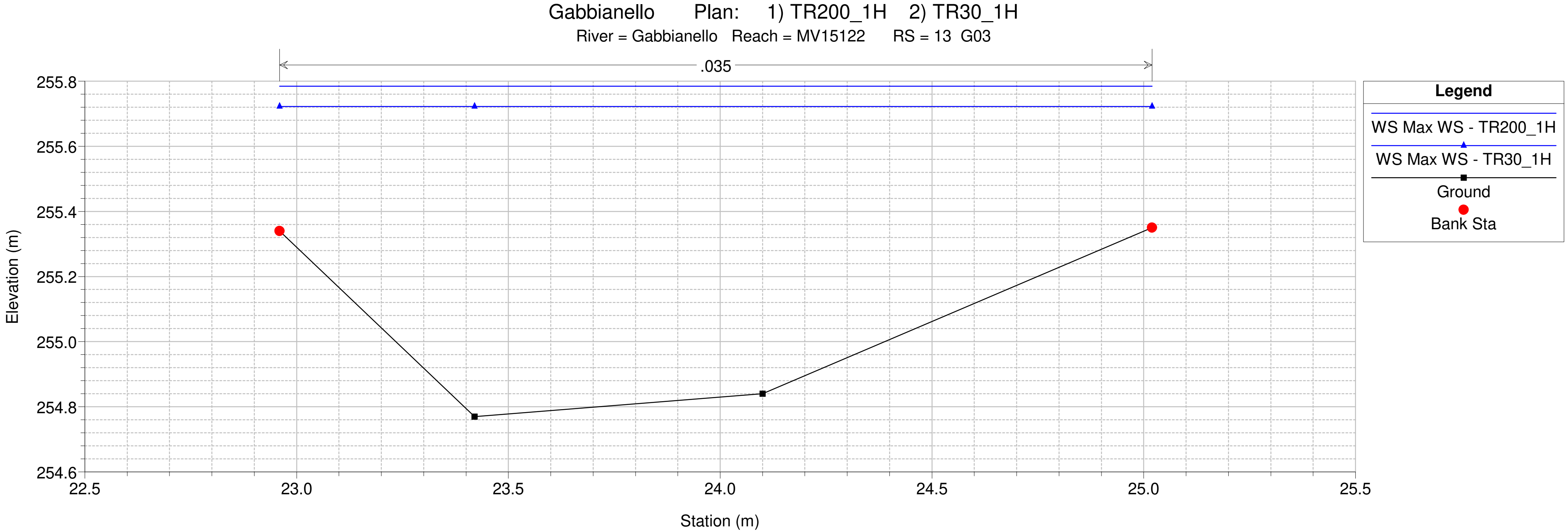
1 cm Horiz. = 20 m 1 cm Vert. = 1 m



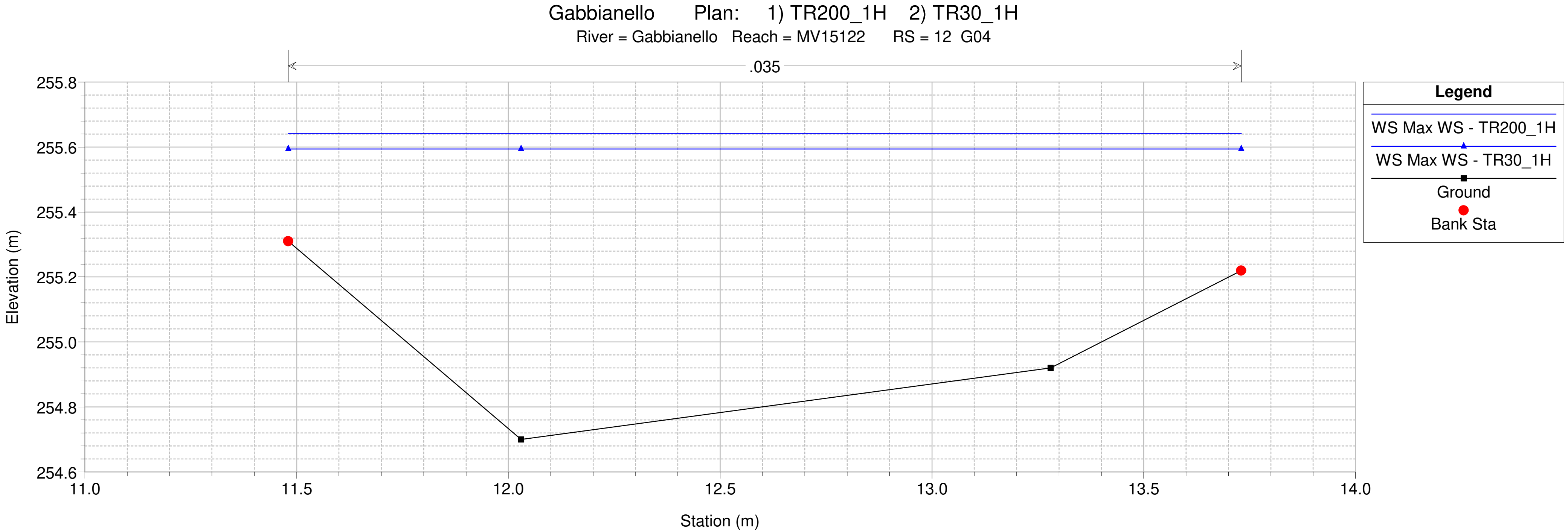
1 cm Horiz. = 20 m 1 cm Vert. = 1 m


Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 15 G01
.035
Elevation (m)
256.6
256.4
256.2
256.0
255.8
255.6
255.4
255.2
12.0
12.5
13.0
13.5
14.0
14.5
15.0
15.5
16.0
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta

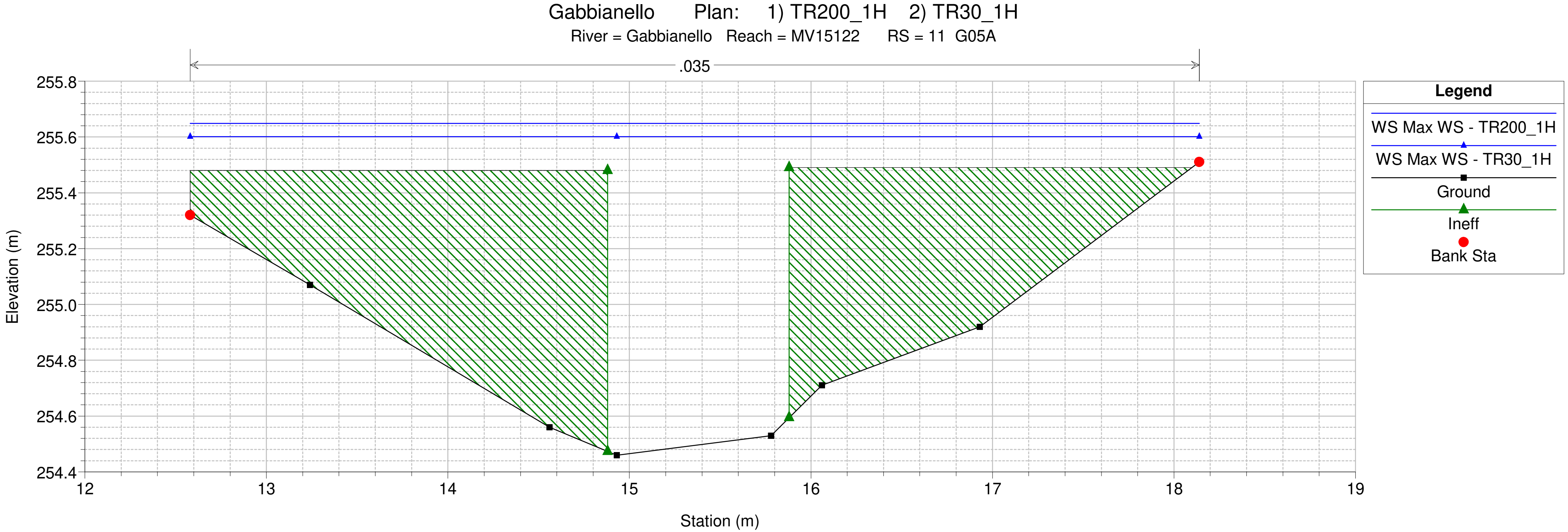

Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 14 G02
.035
Elevation (m)
256.0
255.8
255.6
255.4
255.2
12
13
14
15
16
17
18
19
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta

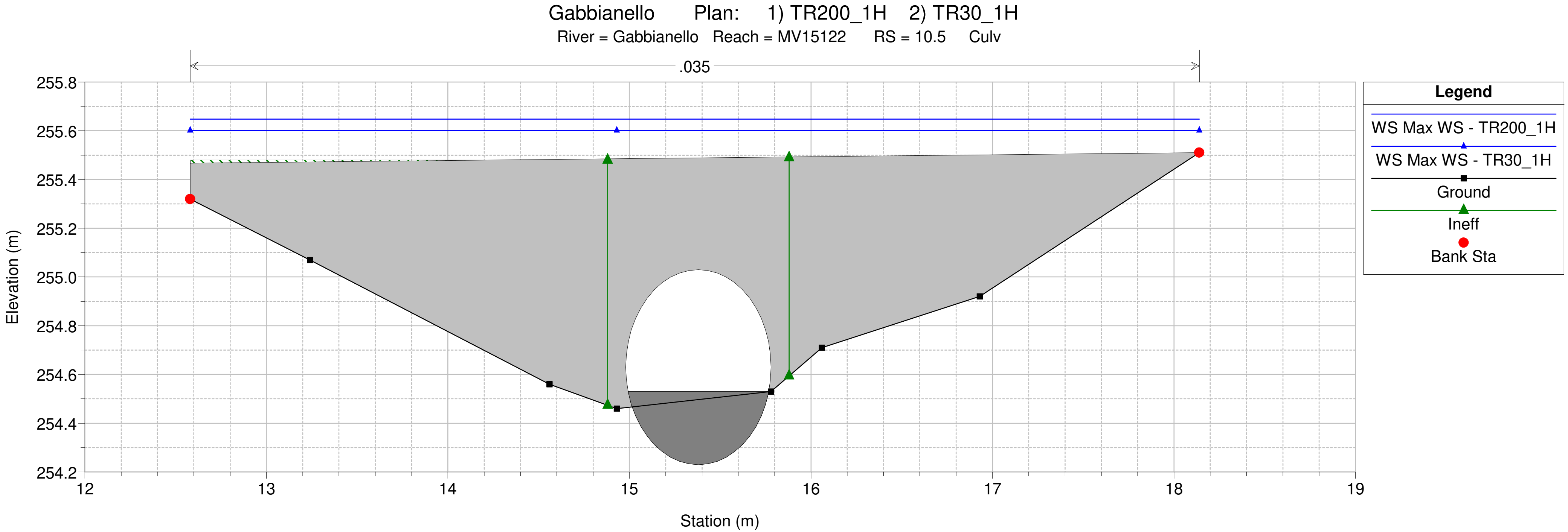


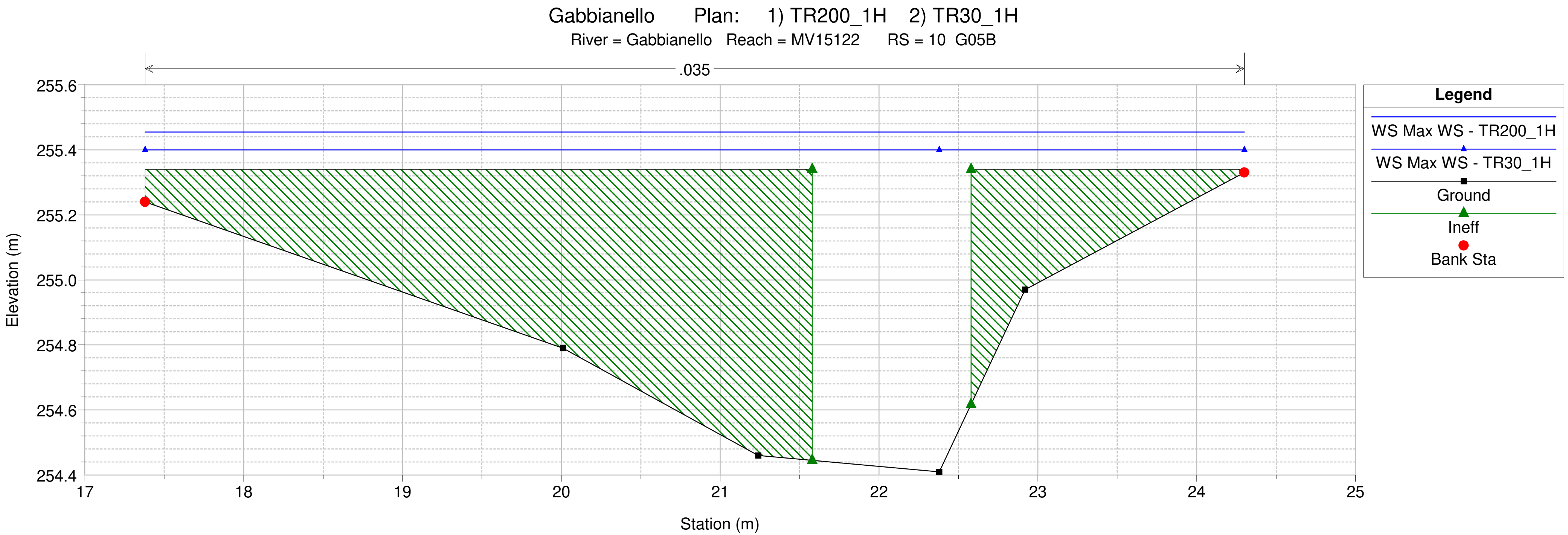
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 13 G03
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta
Elevation (m)
255.8
255.6
255.4
255.2
255.0
254.8
254.6
22.5
23.0
23.5
24.0
24.5
25.0
25.5
Station (m)



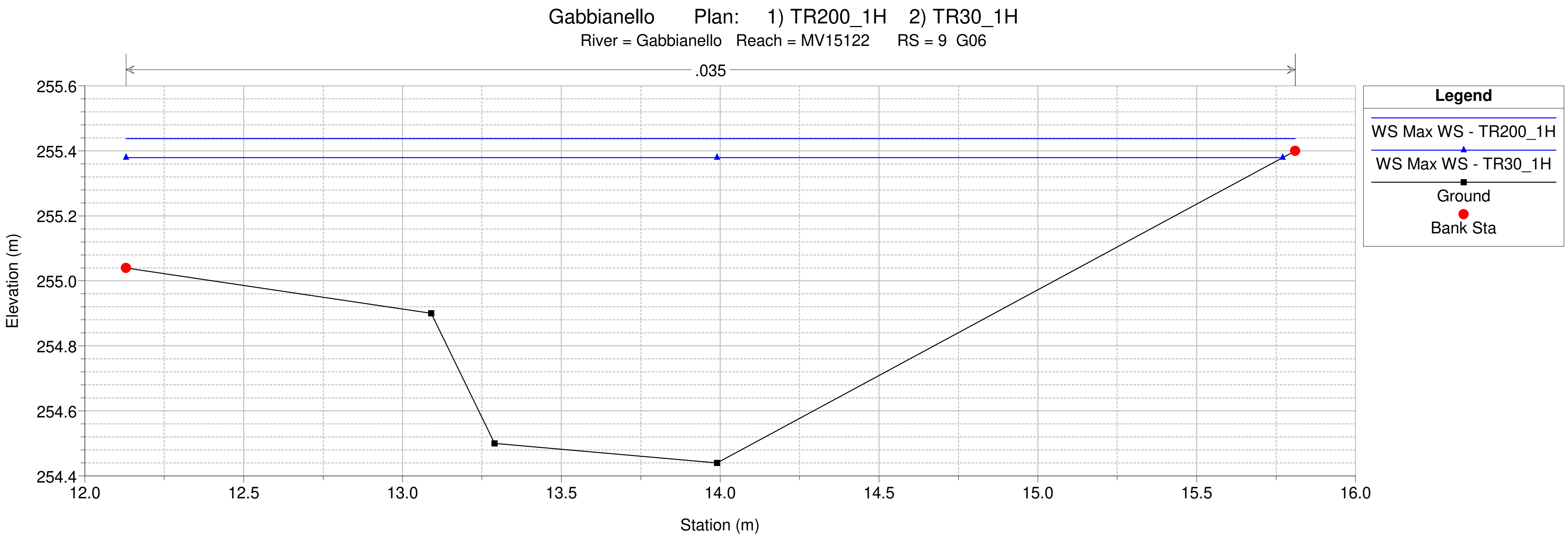
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 12 G04
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta
Elevation (m)
255.8
255.6
255.4
255.2
255.0
254.8
254.6
11.0
11.5
12.0
12.5
13.0
13.5
14.0
Station (m)


Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 11 G05A
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta

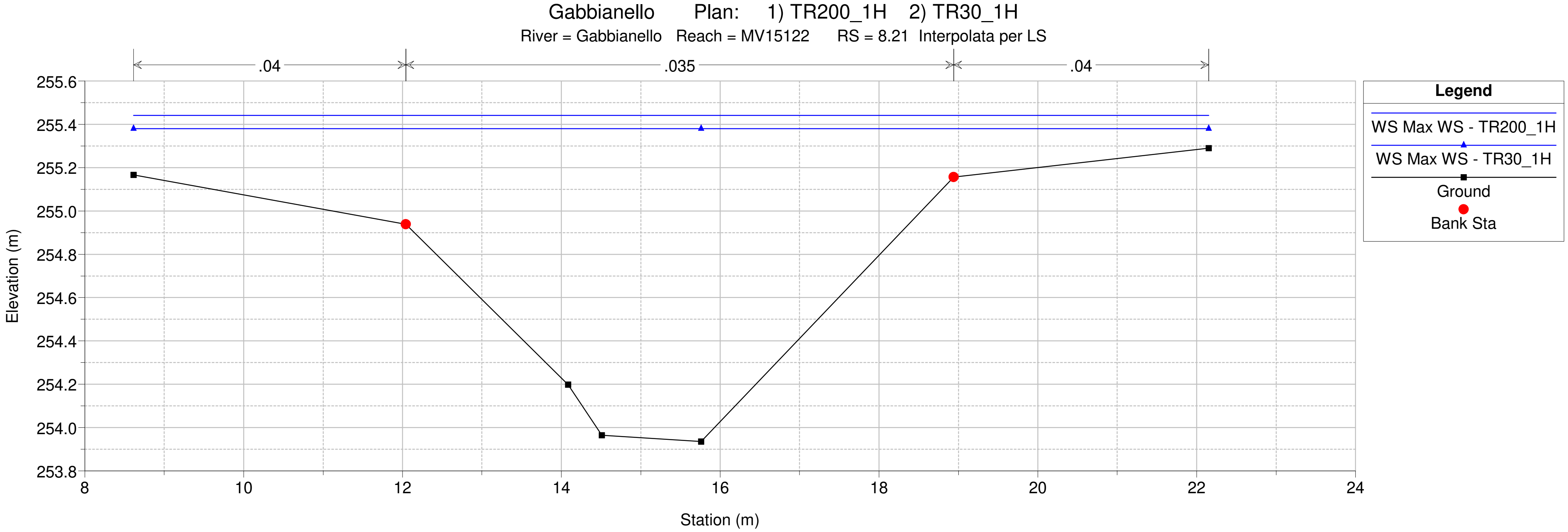

Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 10.5 Culv
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta

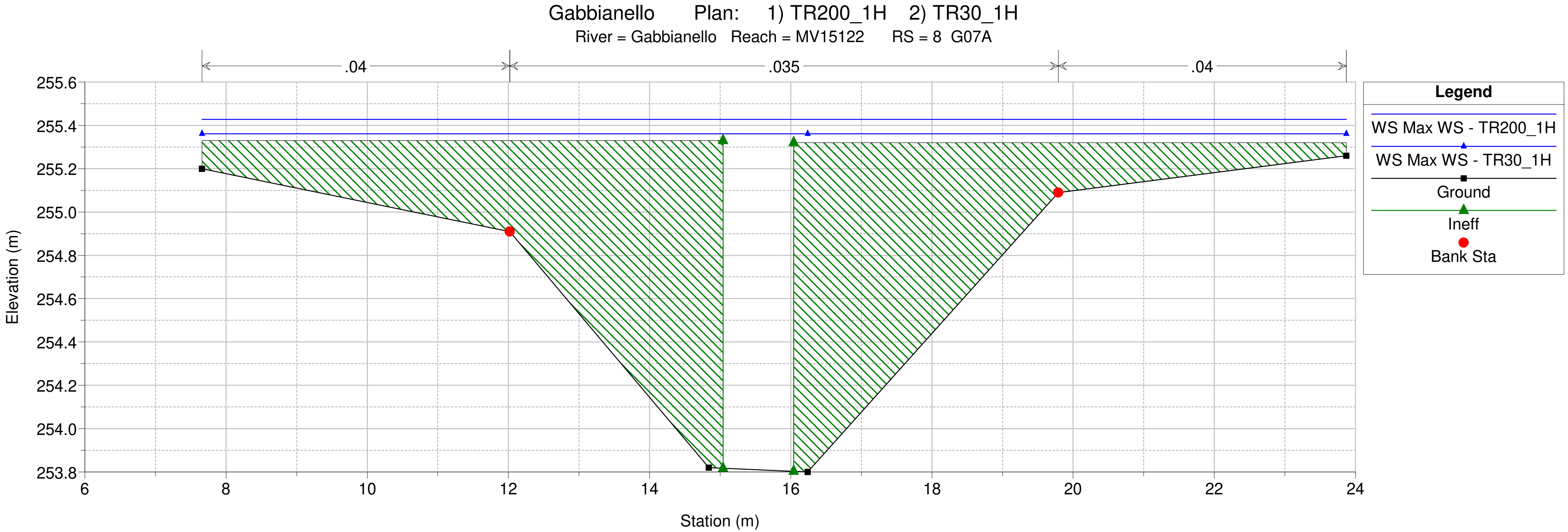


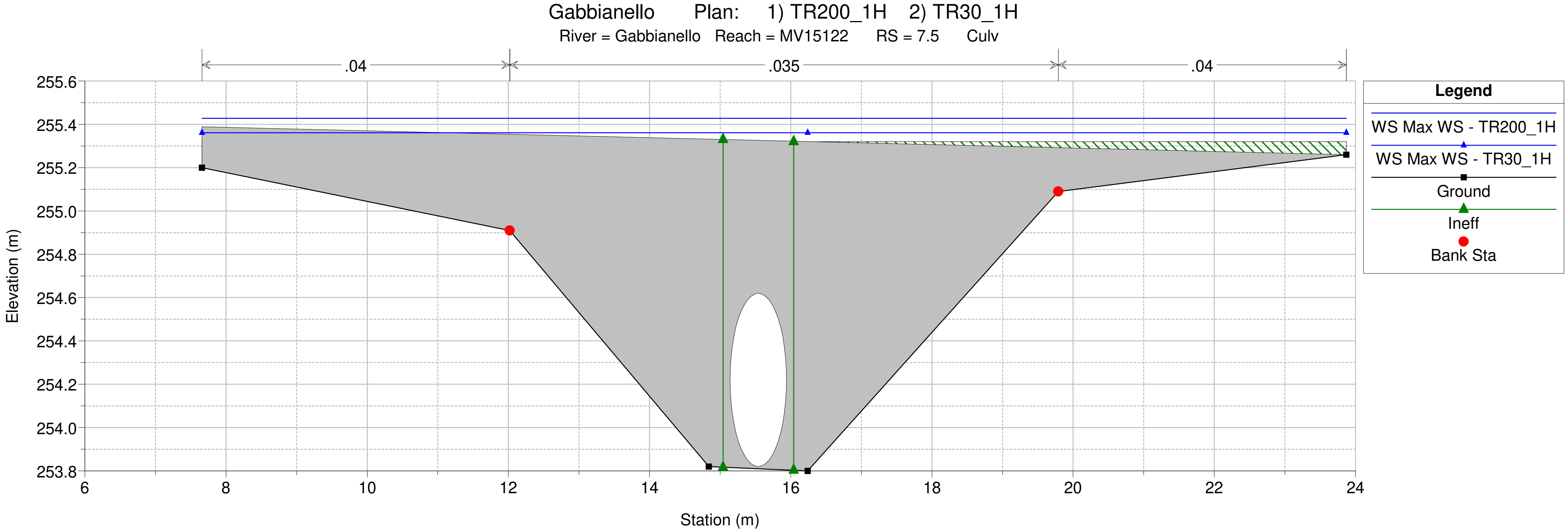
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 10 G05B
.035
Elevation (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
17
18
19
20
21
22
23
24
25
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta



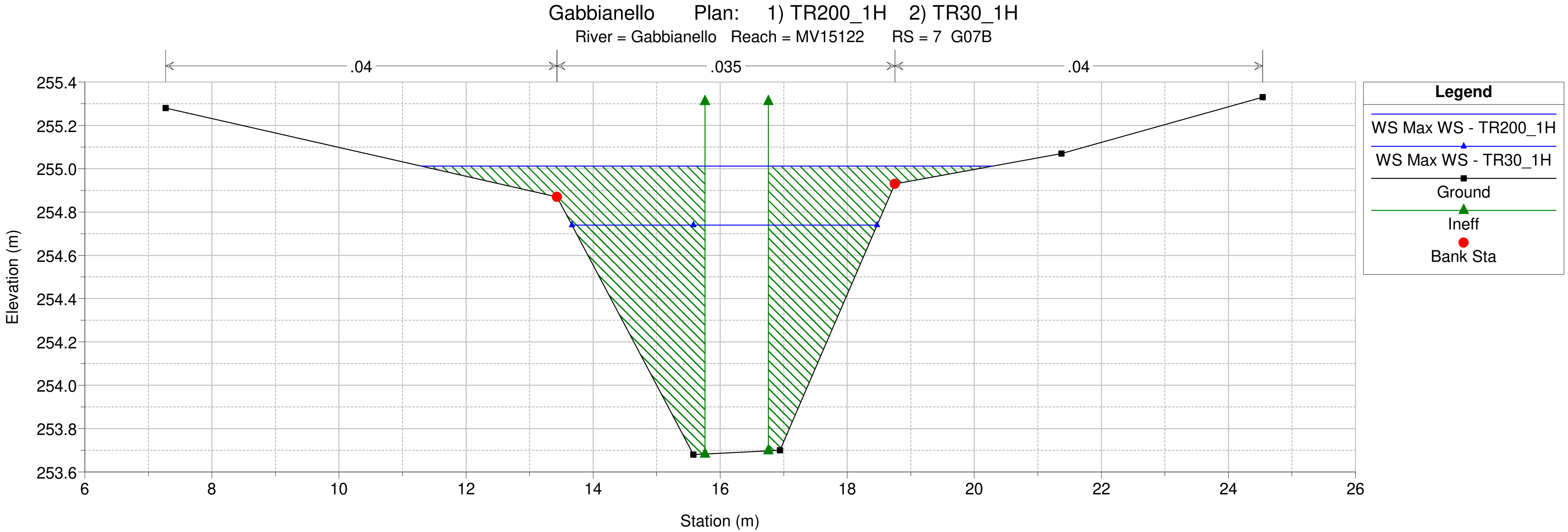
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 9 G06
.035
Elevation (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
12.0
12.5
13.0
13.5
14.0
14.5
15.0
15.5
16.0
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta


Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 8.21 Interpolata per LS
.04
.035
.04
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta
Elevation (m)
Station (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
8
10
12
14
16
18
20
22
24

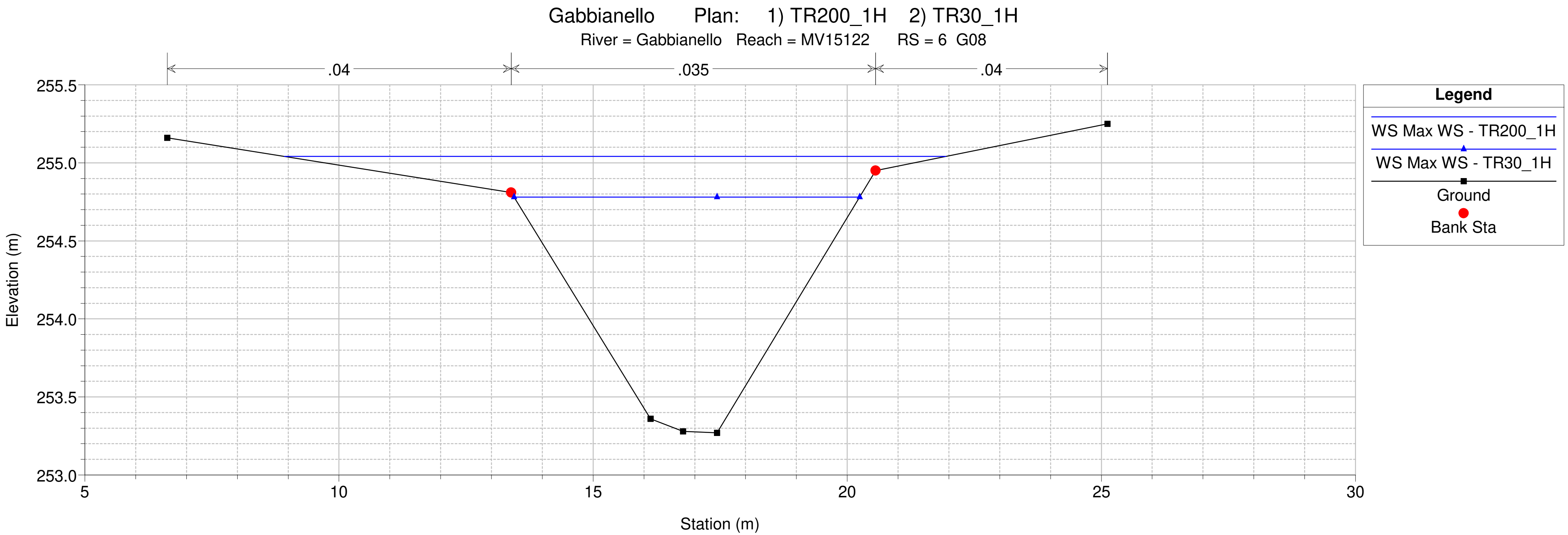

Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 8 G07A
.04
.035
.04
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
6
8
10
12
14
16
18
20
22
24



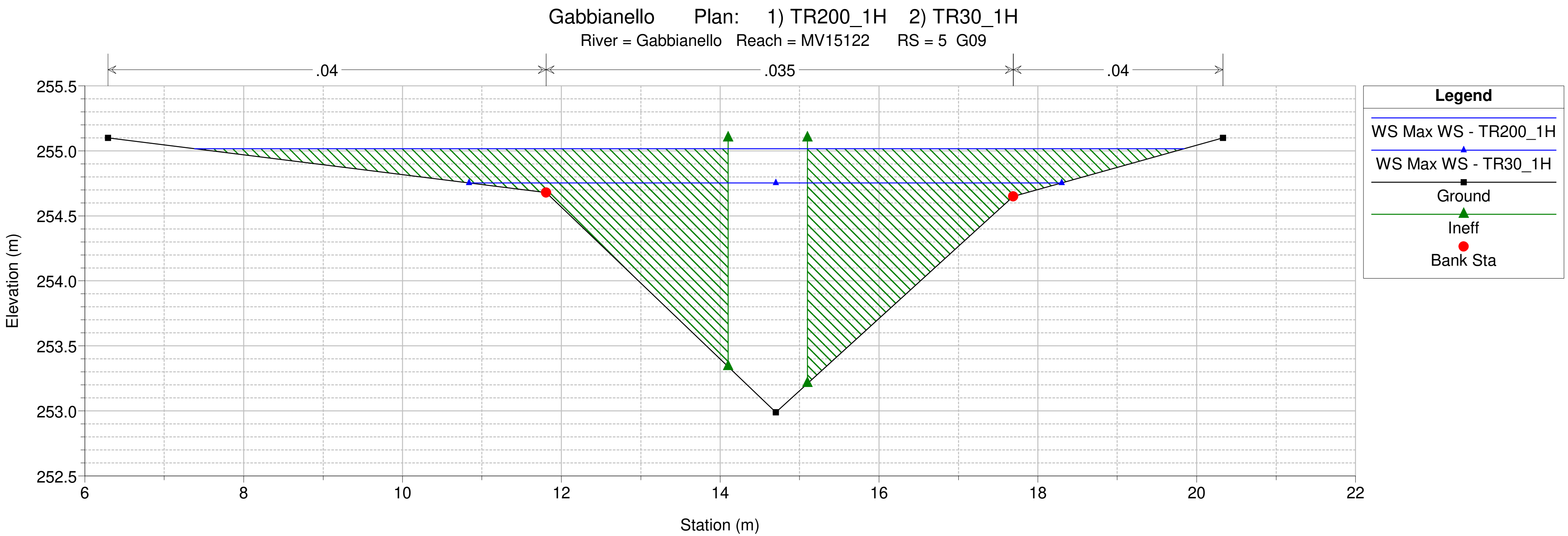
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 7.5 Culv
.04
.035
.04
Elevation (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
6
8
10
12
14
16
18
20
22
24
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta



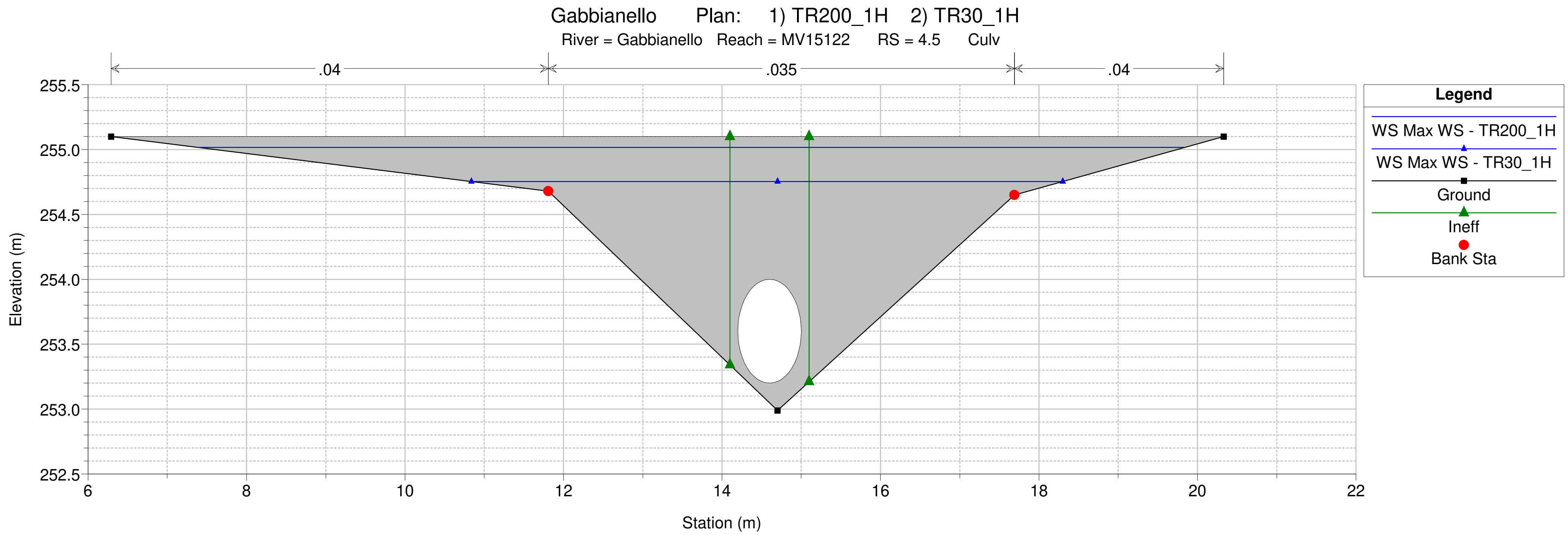
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 7 G07B
.04
.035
.04
Elevation (m)
255.4
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
253.6
6
8
10
12
14
16
18
20
22
24
26
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta

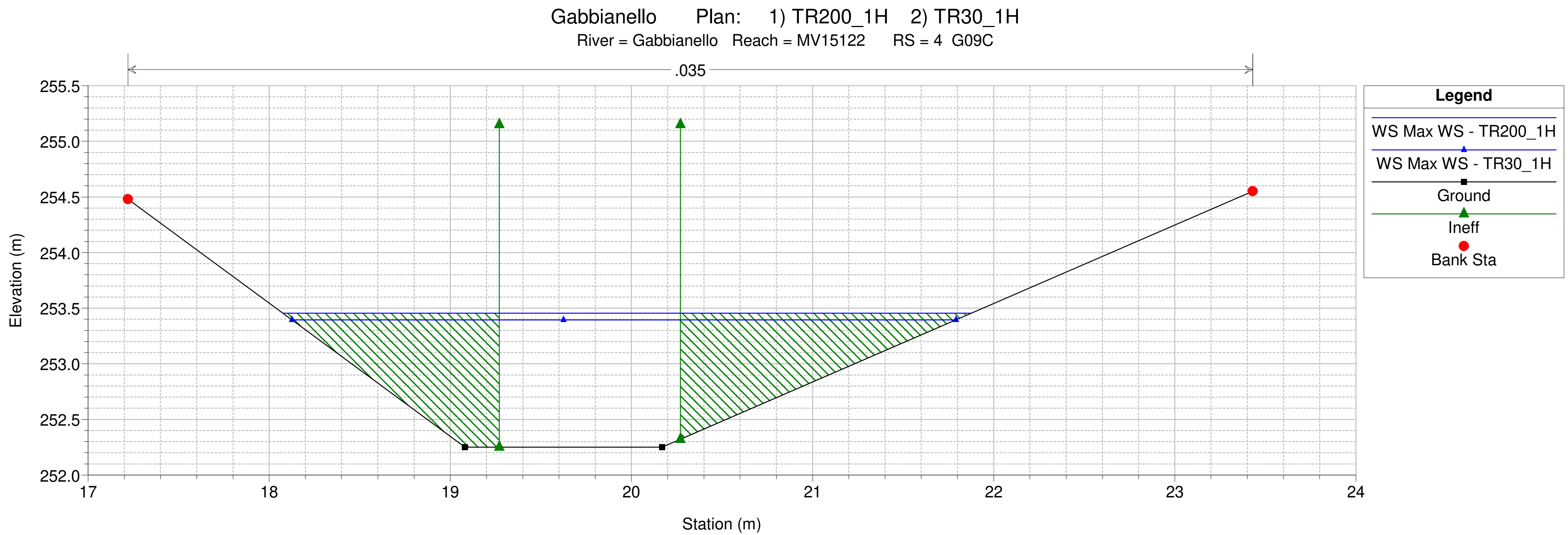


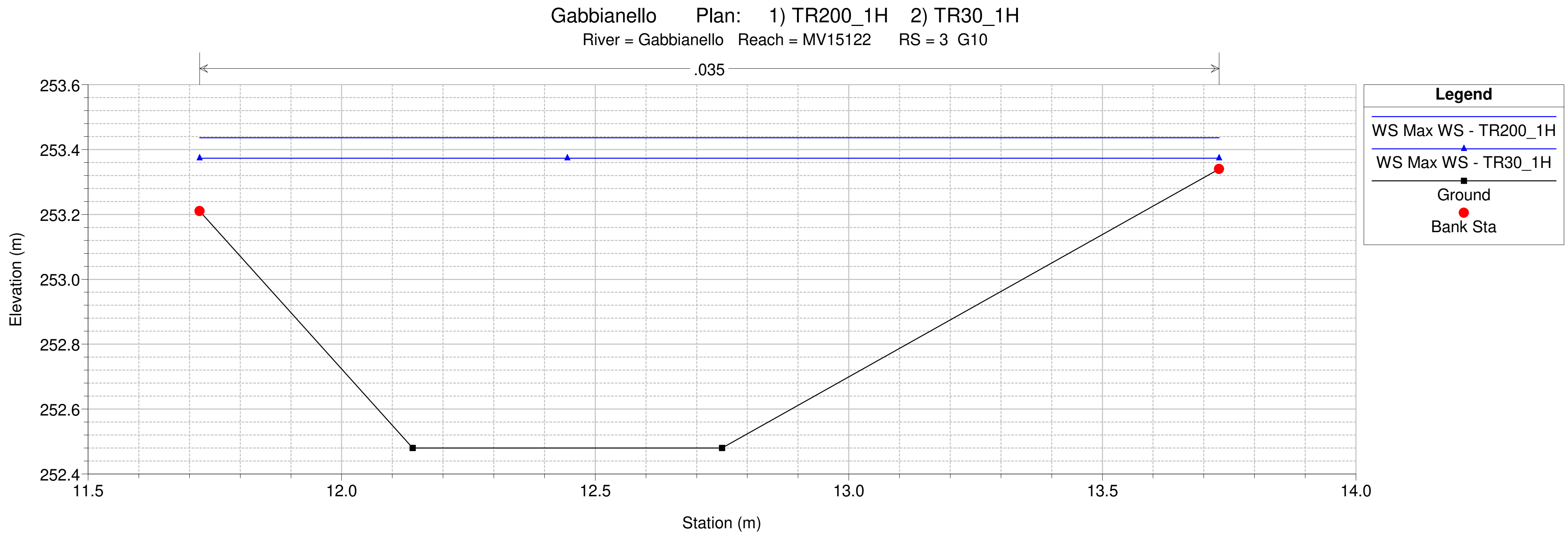
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 6 G08
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta

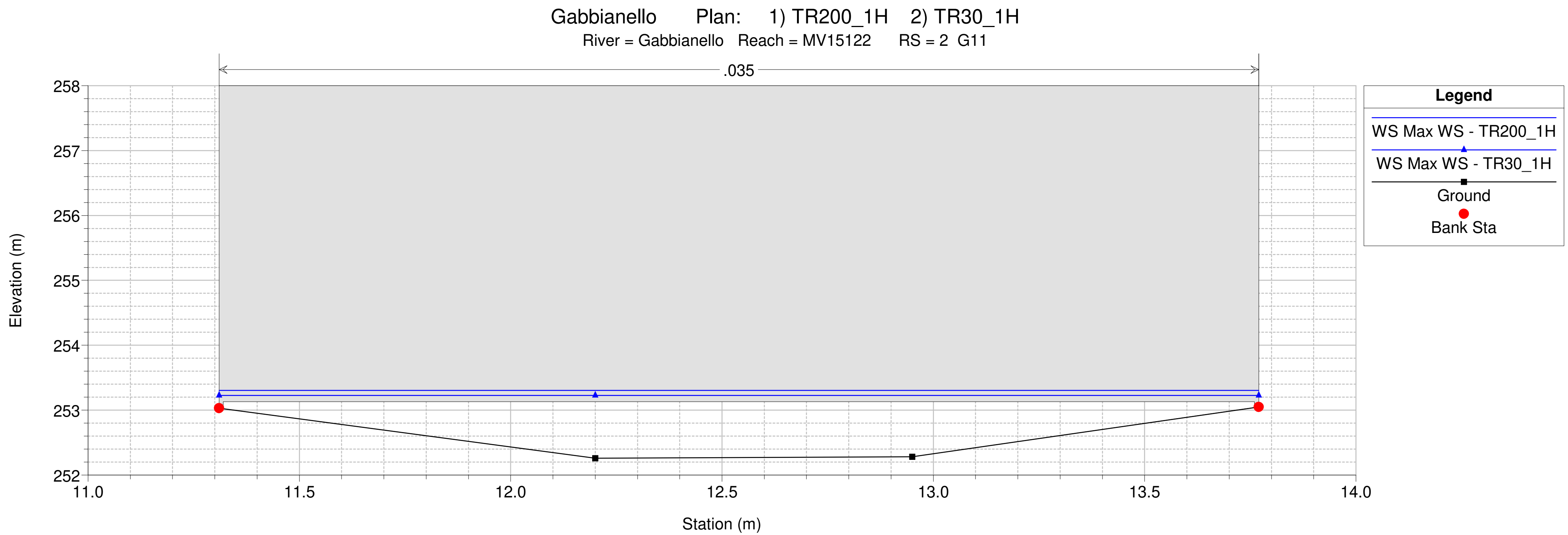


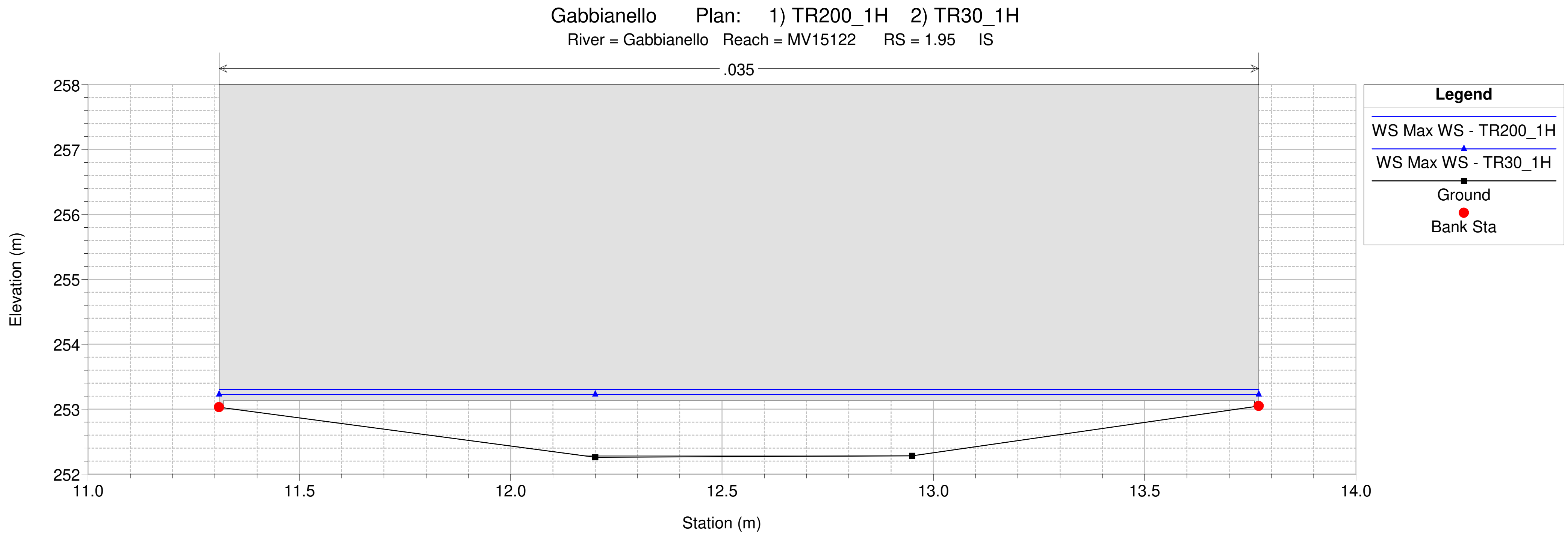
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 5 G09
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta

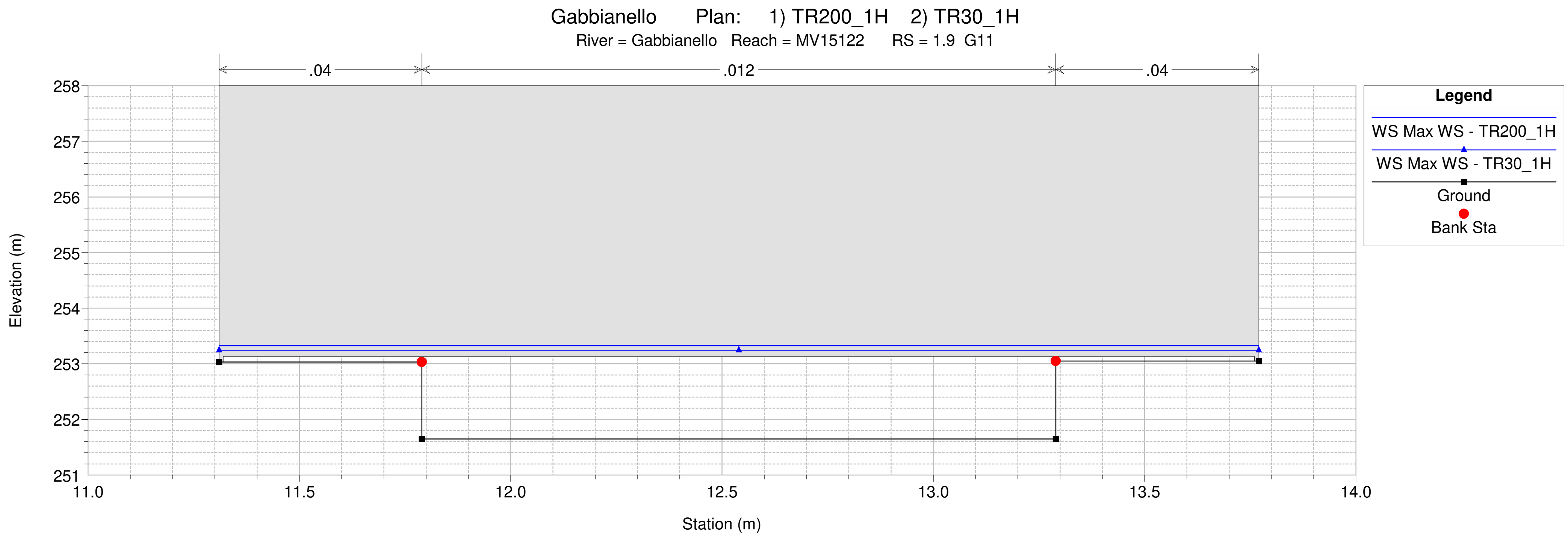

Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 4.5 Culv
.04
.035
.04
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
6
8
10
12
14
16
18
20
22

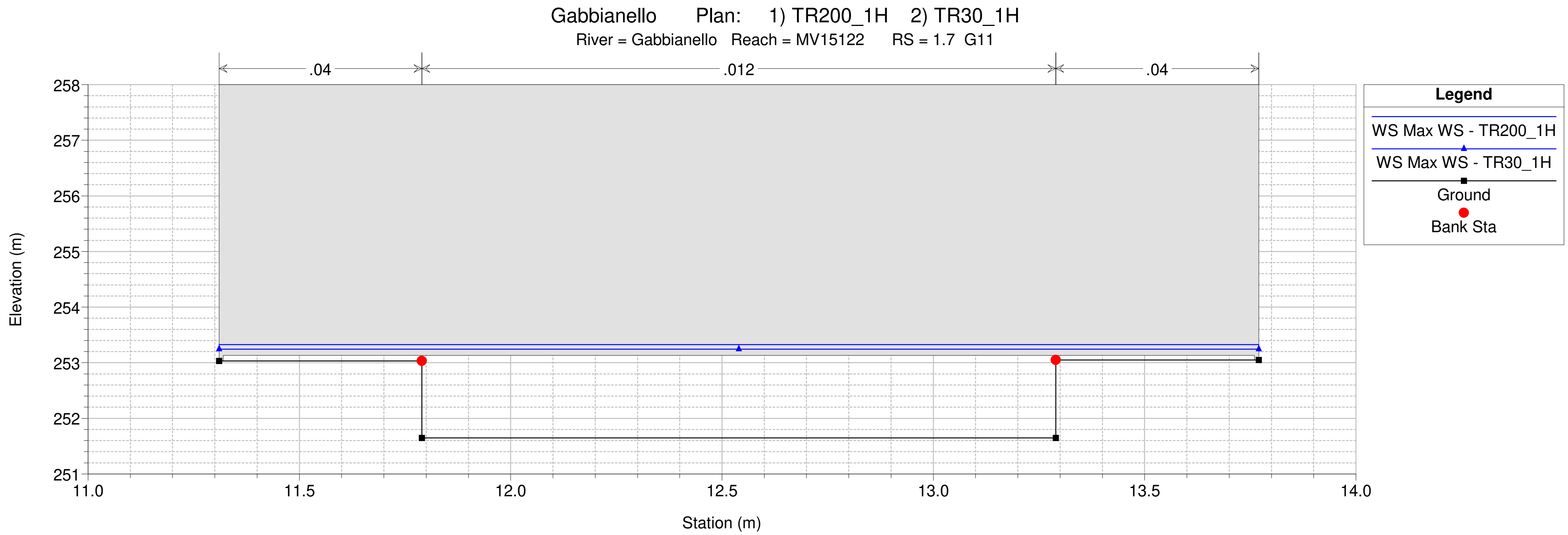

Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 4 G09C
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
252.0
17
18
19
20
21
22
23
24


Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 3 G10
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta
Elevation (m)
Station (m)
253.6
253.4
253.2
253.0
252.8
252.6
252.4
11.5
12.0
12.5
13.0
13.5
14.0

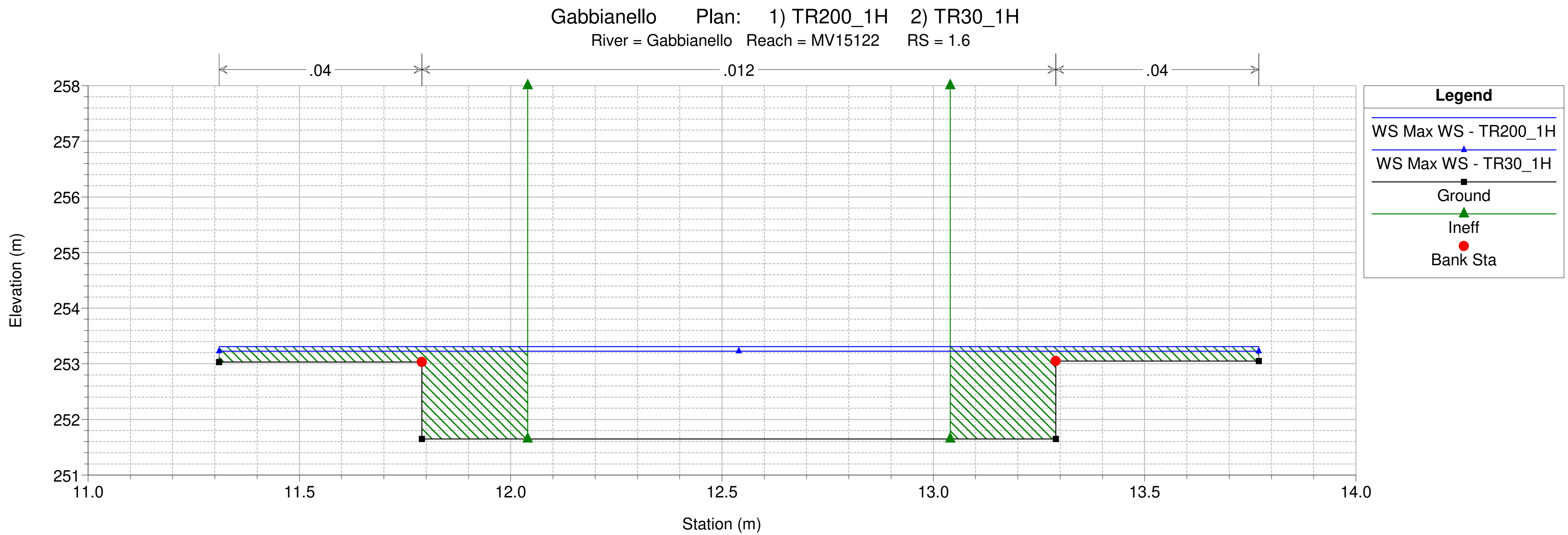

Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 2 G11
.035
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta
Elevation (m)
Station (m)
258
257
256
255
254
253
252
11.0
11.5
12.0
12.5
13.0
13.5
14.0


Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 1.95 IS
.035
Elevation (m)
258
257
256
255
254
253
252
11.0
11.5
12.0
12.5
13.0
13.5
14.0
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta

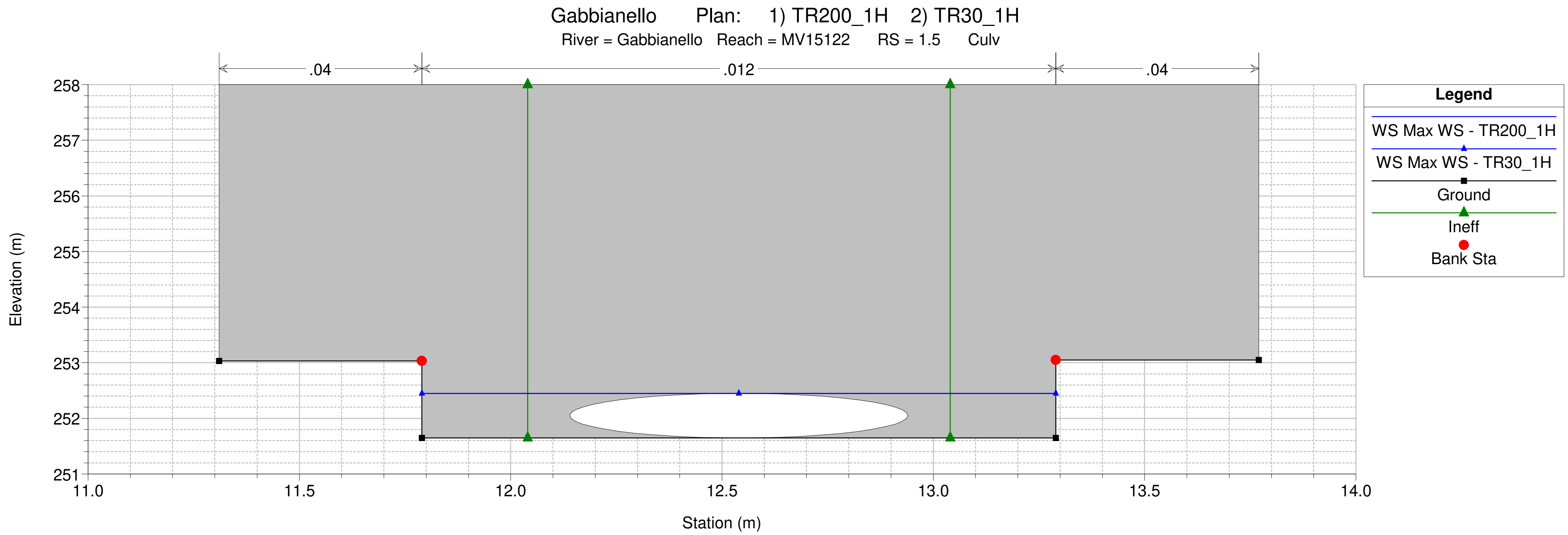

Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 1.9 G11
.04
.012
.04
Elevation (m)
258
257
256
255
254
253
252
251
11.0
11.5
12.0
12.5
13.0
13.5
14.0
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta



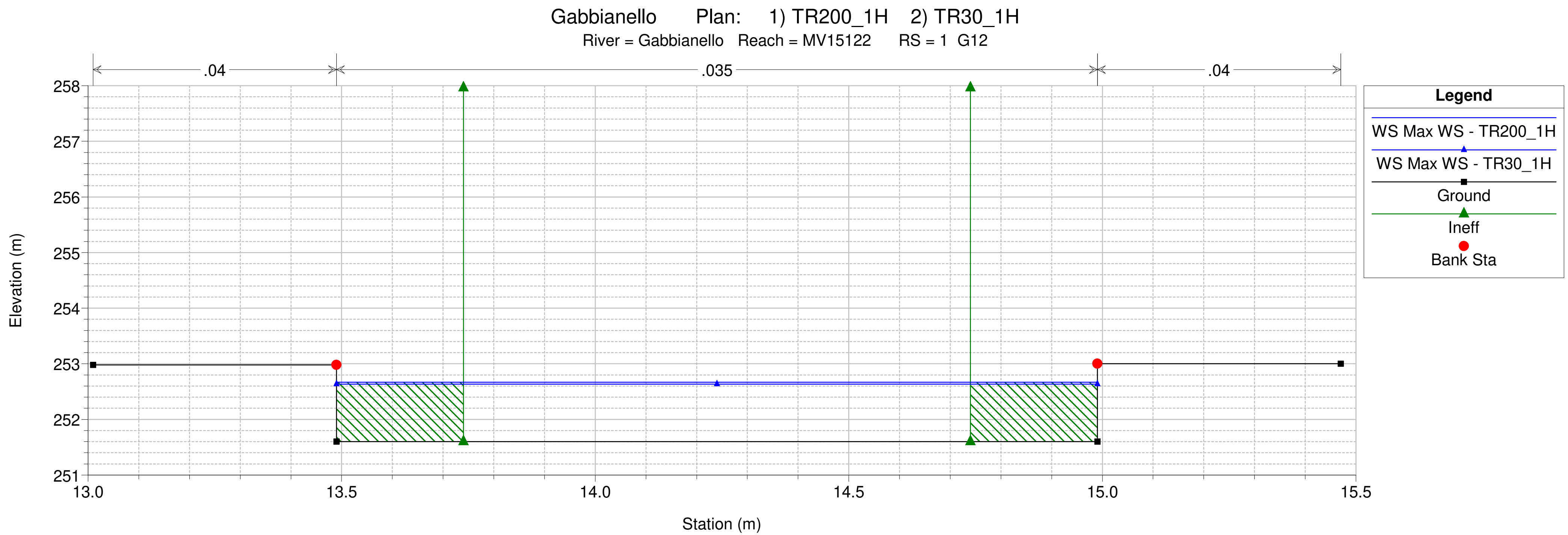
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 1.7 G11
.04
.012
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta



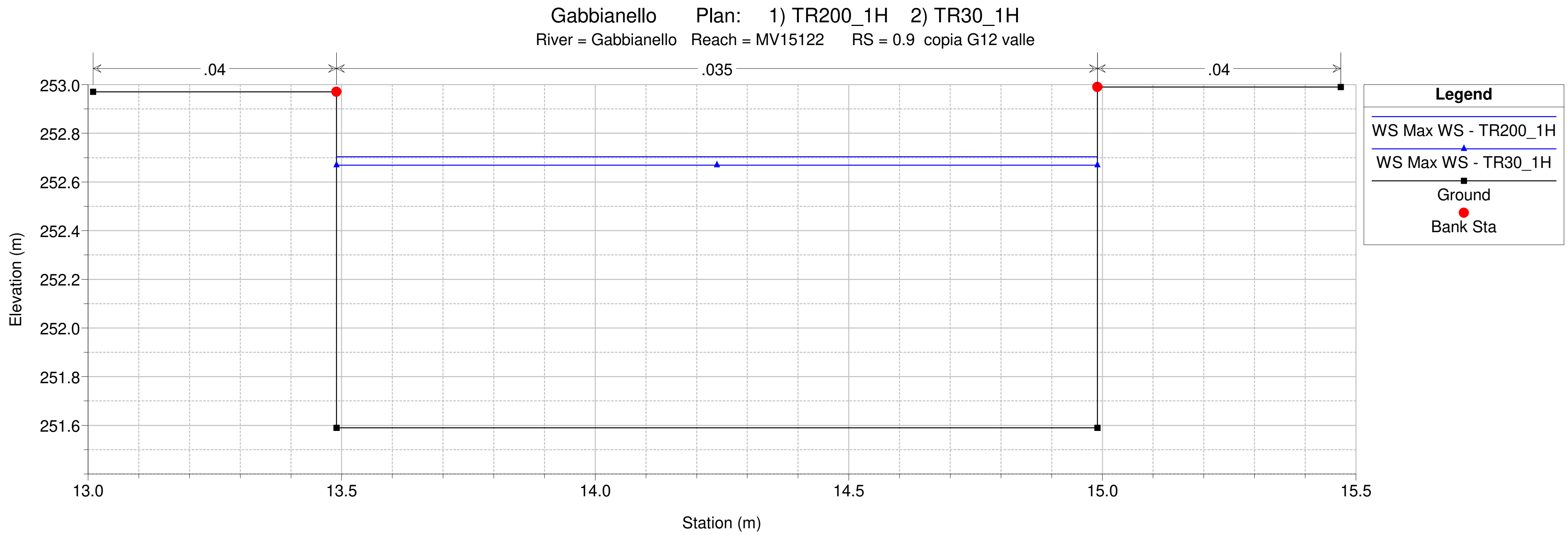
Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 1.6
.04
.012
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta



Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 1.5 Culv
.04
.012
.04
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)



Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 1 G12
.04
.035
.04
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


Gabbianello Plan: 1) TR200_1H 2) TR30_1H
River = Gabbianello Reach = MV15122 RS = 0.9 copia G12 valle
.04
.035
.04
253.0
252.8
252.6
252.4
252.2
252.0
251.8
251.6
Elevation (m)
13.0
13.5
14.0
14.5
15.0
15.5
Station (m)
Legend
WS Max WS - TR200_1H
WS Max WS - TR30_1H
Ground
Bank Sta

HEC-RAS River: Gabbianello Reach: MV15122 Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15122	15	Max WS	TR200_30min	7.88	255.39	256.44	256.55	256.98	0.029845	3.27	2.41	3.40	1.24
MV15122	15	Max WS	TR200_45min	8.03	255.39	256.44	256.56	257.00	0.030042	3.30	2.43	3.40	1.25
MV15122	15	Max WS	TR200_1H	7.66	255.39	256.42	256.53	256.96	0.029473	3.23	2.37	3.40	1.24
MV15122	15	Max WS	TR200_2H	5.75	255.39	256.32	256.39	256.73	0.026560	2.85	2.02	3.40	1.18
MV15122	15	Max WS	TR30_30min	5.55	255.39	256.31	256.38	256.71	0.026310	2.80	1.98	3.40	1.17
MV15122	15	Max WS	TR30_45min	5.70	255.39	256.32	256.39	256.73	0.026540	2.84	2.01	3.40	1.18
MV15122	15	Max WS	TR30_1H	5.46	255.39	256.30	256.37	256.70	0.026149	2.78	1.96	3.40	1.17
MV15122	15	Max WS	TR30_2H	4.14	255.39	256.22	256.26	256.53	0.023803	2.46	1.68	3.40	1.12
MV15122	14.99			Lat Struct									
MV15122	14.98			Lat Struct									
MV15122	14	Max WS	TR200_30min	5.67	255.10	255.97	255.69	256.06	0.003906	1.31	4.34	5.86	0.49
MV15122	14	Max WS	TR200_45min	5.78	255.10	255.98	255.69	256.07	0.003927	1.32	4.38	5.86	0.49
MV15122	14	Max WS	TR200_1H	5.56	255.10	255.97	255.68	256.05	0.003758	1.28	4.33	5.86	0.48
MV15122	14	Max WS	TR200_2H	4.54	255.10	255.90	255.62	255.97	0.003344	1.15	3.95	5.86	0.45
MV15122	14	Max WS	TR30_30min	4.36	255.10	255.89	255.61	255.96	0.003247	1.12	3.88	5.86	0.44
MV15122	14	Max WS	TR30_45min	4.49	255.10	255.90	255.62	255.97	0.003329	1.15	3.92	5.86	0.45
MV15122	14	Max WS	TR30_1H	4.27	255.10	255.89	255.61	255.95	0.003127	1.10	3.87	5.86	0.43
MV15122	14	Max WS	TR30_2H	3.54	255.10	255.84	255.56	255.89	0.002800	1.00	3.55	5.86	0.41
MV15122	13	Max WS	TR200_30min	2.62	254.77	255.78	255.54	255.91	0.008185	1.60	1.63	2.06	0.57
MV15122	13	Max WS	TR200_45min	2.67	254.77	255.79	255.55	255.92	0.008266	1.62	1.65	2.06	0.58
MV15122	13	Max WS	TR200_1H	2.61	254.77	255.78	255.54	255.91	0.008107	1.60	1.64	2.06	0.57
MV15122	13	Max WS	TR200_2H	2.26	254.77	255.74	255.49	255.85	0.007232	1.47	1.54	2.06	0.55
MV15122	13	Max WS	TR30_30min	2.15	254.77	255.72	255.47	255.82	0.006986	1.44	1.50	2.06	0.54
MV15122	13	Max WS	TR30_45min	2.20	254.77	255.73	255.48	255.83	0.007082	1.45	1.52	2.06	0.54
MV15122	13	Max WS	TR30_1H	2.17	254.77	255.72	255.47	255.83	0.006964	1.44	1.51	2.06	0.54
MV15122	13	Max WS	TR30_2H	1.88	254.77	255.68	255.43	255.77	0.006078	1.32	1.43	2.06	0.50
MV15122	12.99			Lat Struct									
MV15122	12.98			Lat Struct									
MV15122	12	Max WS	TR200_30min	1.83	254.70	255.64	255.32	255.70	0.003984	1.12	1.64	2.25	0.42
MV15122	12	Max WS	TR200_45min	1.88	254.70	255.65	255.32	255.71	0.004068	1.13	1.66	2.25	0.42
MV15122	12	Max WS	TR200_1H	1.84	254.70	255.64	255.32	255.71	0.004001	1.12	1.65	2.25	0.42
MV15122	12	Max WS	TR200_2H	1.61	254.70	255.60	255.28	255.66	0.003537	1.03	1.56	2.25	0.39
MV15122	12	Max WS	TR30_30min	1.51	254.70	255.59	255.27	255.64	0.003337	0.99	1.53	2.25	0.38
MV15122	12	Max WS	TR30_45min	1.57	254.70	255.60	255.27	255.65	0.003445	1.01	1.55	2.25	0.39
MV15122	12	Max WS	TR30_1H	1.55	254.70	255.59	255.27	255.65	0.003401	1.00	1.54	2.25	0.39
MV15122	12	Max WS	TR30_2H	1.37	254.70	255.56	255.24	255.61	0.003023	0.93	1.47	2.25	0.37
MV15122	11	Max WS	TR200_30min	1.15	254.46	255.65		255.67	0.002300	0.61	1.89	5.56	0.33
MV15122	11	Max WS	TR200_45min	1.21	254.46	255.65		255.67	0.002444	0.63	1.92	5.56	0.34
MV15122	11	Max WS	TR200_1H	1.18	254.46	255.65		255.67	0.002404	0.62	1.89	5.56	0.34
MV15122	11	Max WS	TR200_2H	0.95	254.46	255.61		255.63	0.002275	0.56	1.68	5.56	0.33
MV15122	11	Max WS	TR30_30min	0.84	254.46	255.60		255.61	0.002118	0.53	1.60	5.56	0.31
MV15122	11	Max WS	TR30_45min	0.86	254.46	255.61		255.62	0.001985	0.52	1.65	5.56	0.31
MV15122	11	Max WS	TR30_1H	0.87	254.46	255.60		255.62	0.002144	0.54	1.63	5.56	0.32
MV15122	11	Max WS	TR30_2H	0.73	254.46	255.57		255.58	0.002108	0.50	1.46	5.56	0.31
MV15122	10.5			Culvert									
MV15122	10	Max WS	TR200_30min	1.09	254.41	255.44	254.93	255.47	0.004430	0.68	1.61	6.92	0.45
MV15122	10	Max WS	TR200_45min	1.19	254.41	255.46	254.97	255.48	0.004368	0.70	1.71	6.92	0.45
MV15122	10	Max WS	TR200_1H	1.16	254.41	255.46	254.96	255.48	0.004293	0.69	1.69	6.92	0.44
MV15122	10	Max WS	TR200_2H	0.94	254.41	255.42	254.89	255.44	0.004628	0.65	1.46	6.92	0.45
MV15122	10	Max WS	TR30_30min	0.65	254.41	255.35	254.79	255.38	0.007827	0.66	0.99	6.92	0.56
MV15122	10	Max WS	TR30_45min	0.79	254.41	255.40	254.84	255.41	0.005045	0.62	1.27	6.92	0.46
MV15122	10	Max WS	TR30_1H	0.84	254.41	255.40	254.86	255.42	0.005131	0.64	1.31	6.92	0.47
MV15122	10	Max WS	TR30_2H	0.73	254.41	255.36	254.82	255.39	0.008350	0.70	1.04	6.92	0.58
MV15122	9.99			Lat Struct									
MV15122	9.98			Lat Struct									
MV15122	9	Max WS	TR200_30min	1.08	254.44	255.42	254.95	255.44	0.000823	0.50	2.17	3.68	0.21
MV15122	9	Max WS	TR200_45min	1.15	254.44	255.44	254.97	255.45	0.000879	0.52	2.22	3.68	0.21
MV15122	9	Max WS	TR200_1H	1.12	254.44	255.44	254.96	255.45	0.000833	0.51	2.21	3.68	0.21
MV15122	9	Max WS	TR200_2H	0.97	254.44	255.40	254.92	255.41	0.000751	0.47	2.09	3.68	0.20
MV15122	9	Max WS	TR30_30min	0.92	254.44	255.34	254.90	255.35	0.000945	0.50	1.85	3.56	0.22
MV15122	9	Max WS	TR30_45min	0.90	254.44	255.37	254.89	255.38	0.000735	0.45	1.98	3.63	0.20
MV15122	9	Max WS	TR30_1H	0.93	254.44	255.38	254.90	255.39	0.000769	0.46	2.00	3.64	0.20
MV15122	9	Max WS	TR30_2H	0.92	254.44	255.34	254.90	255.35	0.000924	0.49	1.87	3.57	0.22
MV15122	8.99			Lat Struct									
MV15122	8.98			Lat Struct									
MV15122	8.21	Max WS	TR200_30min	1.57	253.94	255.43	254.37	255.43	0.000053	0.20	8.93	13.54	0.06
MV15122	8.21	Max WS	TR200_45min	1.64	253.94	255.44	254.38	255.44	0.000055	0.21	9.13	13.54	0.07
MV15122	8.21	Max WS	TR200_1H	1.60	253.94	255.44	254.38	255.44	0.000053	0.20	9.10	13.54	0.06
MV15122	8.21	Max WS	TR200_2H	1.43	253.94	255.40	254.35	255.41	0.000048	0.19	8.61	13.54	0.06
MV15122	8.21	Max WS	TR30_30min	1.26	253.94	255.34	254.32	255.34	0.000050	0.18	7.71	13.54	0.06
MV15122	8.21	Max WS	TR30_45min	1.35	253.94	255.38	254.33	255.38	0.000049	0.19	8.21	13.54	0.06
MV15122	8.21	Max WS	TR30_1H	1.38	253.94	255.38	254.34	255.38	0.000050	0.19	8.28	13.54	0.06

HEC-RAS River: Gabbianello Reach: MV15122 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15122	8.21	Max WS	TR30_2H	1.28	253.94	255.34	254.33	255.34	0.000050	0.19	7.78	13.54	0.06
MV15122	8.20			Lat Struct									
MV15122	8	Max WS	TR200_30min	1.64	253.80	255.41		255.43	0.003067	0.66	2.94	16.21	0.39
MV15122	8	Max WS	TR200_45min	1.70	253.80	255.43		255.45	0.002604	0.63	3.20	16.21	0.37
MV15122	8	Max WS	TR200_1H	1.66	253.80	255.43		255.44	0.002544	0.62	3.17	16.21	0.36
MV15122	8	Max WS	TR200_2H	1.50	253.80	255.39		255.41	0.003726	0.68	2.54	16.21	0.43
MV15122	8	Max WS	TR30_30min	1.37	253.80	255.32		255.36	0.000583	0.91	1.51	16.21	0.24
MV15122	8	Max WS	TR30_45min	1.45	253.80	255.36		255.39	0.006031	0.80	2.02	16.21	0.53
MV15122	8	Max WS	TR30_1H	1.47	253.80	255.36		255.39	0.005722	0.79	2.10	16.21	0.52
MV15122	8	Max WS	TR30_2H	1.40	253.80	255.33		255.37	0.004665	0.90	1.59	16.21	0.50
MV15122	7.5			Culvert									
MV15122	7	Max WS	TR200_30min	1.46	253.68	254.89	254.29	254.96	0.001430	1.22	1.20	5.50	0.36
MV15122	7	Max WS	TR200_45min	1.44	253.68	254.98	254.29	255.05	0.001072	1.11	1.29	8.07	0.31
MV15122	7	Max WS	TR200_1H	1.44	253.68	255.01	254.29	255.07	0.000999	1.09	1.32	9.00	0.30
MV15122	7	Max WS	TR200_2H	1.46	253.68	254.87	254.29	254.95	0.001509	1.24	1.18	5.23	0.36
MV15122	7	Max WS	TR30_30min	1.35	253.68	254.72	254.26	254.81	0.002020	1.31	1.03	4.75	0.41
MV15122	7	Max WS	TR30_45min	1.38	253.68	254.74	254.27	254.83	0.001986	1.31	1.05	4.80	0.41
MV15122	7	Max WS	TR30_1H	1.38	253.68	254.74	254.27	254.83	0.001980	1.31	1.05	4.80	0.41
MV15122	7	Max WS	TR30_2H	1.36	253.68	254.73	254.26	254.82	0.001961	1.30	1.04	4.78	0.41
MV15122	6.99			Lat Struct									
MV15122	6.98			Lat Struct									
MV15122	6	Max WS	TR200_30min	1.52	253.27	254.92	253.72	254.92	0.000069	0.22	7.08	9.29	0.07
MV15122	6	Max WS	TR200_45min	1.54	253.27	255.01	253.73	255.02	0.000052	0.20	8.06	12.11	0.06
MV15122	6	Max WS	TR200_1H	1.55	253.27	255.04	253.73	255.04	0.000048	0.20	8.39	13.02	0.06
MV15122	6	Max WS	TR200_2H	1.49	253.27	254.91	253.72	254.91	0.000070	0.22	6.93	8.95	0.07
MV15122	6	Max WS	TR30_30min	1.58	253.27	254.76	253.73	254.77	0.000124	0.27	5.84	6.73	0.09
MV15122	6	Max WS	TR30_45min	1.66	253.27	254.77	253.74	254.78	0.000132	0.28	5.93	6.78	0.10
MV15122	6	Max WS	TR30_1H	1.44	253.27	254.78	253.71	254.78	0.000098	0.24	5.97	6.80	0.08
MV15122	6	Max WS	TR30_2H	1.51	253.27	254.78	253.72	254.78	0.000108	0.25	5.93	6.78	0.09
MV15122	5.99			Lat Struct									
MV15122	5	Max WS	TR200_30min	1.54	252.99	254.90		254.93	0.000536	0.88	1.76	10.15	0.21
MV15122	5	Max WS	TR200_45min	1.60	252.99	254.99		255.03	0.000486	0.86	1.85	11.95	0.20
MV15122	5	Max WS	TR200_1H	1.62	252.99	255.02		255.05	0.000474	0.86	1.88	12.46	0.20
MV15122	5	Max WS	TR200_2H	1.53	252.99	254.88		254.92	0.000546	0.88	1.74	9.83	0.21
MV15122	5	Max WS	TR30_30min	1.43	252.99	254.74		254.78	0.000641	0.90	1.60	7.12	0.23
MV15122	5	Max WS	TR30_45min	1.45	252.99	254.75		254.79	0.000628	0.90	1.61	7.46	0.23
MV15122	5	Max WS	TR30_1H	1.45	252.99	254.75		254.79	0.000628	0.90	1.61	7.46	0.23
MV15122	5	Max WS	TR30_2H	1.44	252.99	254.75		254.79	0.000634	0.90	1.61	7.30	0.23
MV15122	4.5			Culvert									
MV15122	4	Max WS	TR200_30min	1.52	252.25	253.43	252.87	253.52	0.001688	1.29	1.18	3.75	0.38
MV15122	4	Max WS	TR200_45min	1.58	252.25	253.45	252.89	253.54	0.001735	1.32	1.19	3.79	0.39
MV15122	4	Max WS	TR200_1H	1.61	252.25	253.45	252.90	253.55	0.001785	1.34	1.20	3.80	0.39
MV15122	4	Max WS	TR200_2H	1.52	252.25	253.43	252.87	253.52	0.001684	1.29	1.18	3.75	0.38
MV15122	4	Max WS	TR30_30min	1.41	252.25	253.38	252.84	253.46	0.001683	1.25	1.13	3.64	0.38
MV15122	4	Max WS	TR30_45min	1.43	252.25	253.39	252.85	253.47	0.001700	1.26	1.13	3.65	0.38
MV15122	4	Max WS	TR30_1H	1.41	252.25	253.39	252.84	253.47	0.001621	1.24	1.14	3.67	0.37
MV15122	4	Max WS	TR30_2H	1.42	252.25	253.39	252.84	253.47	0.001638	1.24	1.14	3.67	0.37
MV15122	3.99			Lat Struct									
MV15122	3.98			Lat Struct									
MV15122	3	Max WS	TR200_30min	1.47	252.48	253.42	253.11	253.48	0.004784	1.13	1.31	2.01	0.45
MV15122	3	Max WS	TR200_45min	1.55	252.48	253.43	253.12	253.50	0.004956	1.16	1.34	2.01	0.45
MV15122	3	Max WS	TR200_1H	1.54	252.48	253.44	253.12	253.50	0.004805	1.14	1.35	2.01	0.45
MV15122	3	Max WS	TR200_2H	1.46	252.48	253.42	253.10	253.48	0.004645	1.11	1.31	2.01	0.44
MV15122	3	Max WS	TR30_30min	1.28	252.48	253.36	253.06	253.42	0.004631	1.07	1.20	2.01	0.44
MV15122	3	Max WS	TR30_45min	1.37	252.48	253.37	253.08	253.43	0.005104	1.13	1.21	2.01	0.46
MV15122	3	Max WS	TR30_1H	1.37	252.48	253.37	253.08	253.44	0.004970	1.12	1.22	2.01	0.46
MV15122	3	Max WS	TR30_2H	1.35	252.48	253.38	253.08	253.44	0.004723	1.09	1.23	2.01	0.45
MV15122	2	Max WS	TR200_30min	1.38	252.26	253.28	252.81	253.32	0.006738	0.95	1.46		0.30
MV15122	2	Max WS	TR200_45min	1.40	252.26	253.30	252.81	253.34	0.006878	0.96	1.46		0.30
MV15122	2	Max WS	TR200_1H	1.40	252.26	253.30	252.81	253.35	0.006927	0.96	1.46		0.30
MV15122	2	Max WS	TR200_2H	1.38	252.26	253.28	252.81	253.32	0.006756	0.95	1.46		0.30
MV15122	2	Max WS	TR30_30min	1.32	252.26	253.20	252.80	253.24	0.006185	0.91	1.46		0.30
MV15122	2	Max WS	TR30_45min	1.33	252.26	253.21	252.80	253.26	0.006276	0.92	1.46		0.30
MV15122	2	Max WS	TR30_1H	1.34	252.26	253.23	252.80	253.27	0.006375	0.92	1.46		0.30
MV15122	2	Max WS	TR30_2H	1.34	252.26	253.22	252.80	253.26	0.006319	0.92	1.46		0.30
MV15122	1.95			Inl Struct									
MV15122	1.9	Max WS	TR200_30min	1.38	251.65	253.30	252.09	253.32	0.000199	0.62	2.30		0.15
MV15122	1.9	Max WS	TR200_45min	1.40	251.65	253.32	252.10	253.34	0.000203	0.63	2.30		0.15
MV15122	1.9	Max WS	TR200_1H	1.40	251.65	253.32	252.10	253.34	0.000204	0.63	2.30		0.16
MV15122	1.9	Max WS	TR200_2H	1.38	251.65	253.30	252.09	253.32	0.000199	0.62	2.30		0.15
MV15122	1.9	Max WS	TR30_30min	1.32	251.65	253.22	252.08	253.23	0.000182	0.59	2.30		0.15

HEC-RAS River: Gabbianello Reach: MV15122 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15122	1.9	Max WS	TR30_45min	1.33	251.65	253.23	252.08	253.25	0.000185	0.60	2.30		0.15
MV15122	1.9	Max WS	TR30_1H	1.34	251.65	253.24	252.08	253.26	0.000188	0.60	2.30		0.15
MV15122	1.9	Max WS	TR30_2H	1.34	251.65	253.24	252.09	253.25	0.000186	0.60	2.30		0.15
MV15122	1.7	Max WS	TR200_30min	1.38	251.65	253.30	252.09	253.31	0.000199	0.62	2.30		0.15
MV15122	1.7	Max WS	TR200_45min	1.40	251.65	253.32	252.10	253.34	0.000203	0.63	2.30		0.15
MV15122	1.7	Max WS	TR200_1H	1.40	251.65	253.32	252.10	253.34	0.000204	0.63	2.30		0.16
MV15122	1.7	Max WS	TR200_2H	1.38	251.65	253.30	252.09	253.32	0.000199	0.62	2.30		0.15
MV15122	1.7	Max WS	TR30_30min	1.32	251.65	253.22	252.08	253.23	0.000182	0.59	2.30		0.15
MV15122	1.7	Max WS	TR30_45min	1.33	251.65	253.23	252.08	253.25	0.000185	0.60	2.30		0.15
MV15122	1.7	Max WS	TR30_1H	1.34	251.65	253.24	252.08	253.26	0.000188	0.60	2.30		0.15
MV15122	1.7	Max WS	TR30_2H	1.34	251.65	253.24	252.09	253.25	0.000186	0.60	2.30		0.15
MV15122	1.6	Max WS	TR200_30min	1.38	251.65	253.28		253.32	0.000054	0.85	1.63	2.46	0.21
MV15122	1.6	Max WS	TR200_45min	1.40	251.65	253.30		253.34	0.000053	0.84	1.65	2.46	0.21
MV15122	1.6	Max WS	TR200_1H	1.40	251.65	253.31		253.35	0.000052	0.84	1.66	2.46	0.21
MV15122	1.6	Max WS	TR200_2H	1.38	251.65	253.28		253.32	0.000054	0.85	1.63	2.46	0.21
MV15122	1.6	Max WS	TR30_30min	1.32	251.65	253.20		253.24	0.000059	0.85	1.55	2.46	0.22
MV15122	1.6	Max WS	TR30_45min	1.33	251.65	253.21		253.25	0.000058	0.85	1.56	2.46	0.22
MV15122	1.6	Max WS	TR30_1H	1.34	251.65	253.23		253.26	0.000057	0.85	1.58	2.46	0.22
MV15122	1.6	Max WS	TR30_2H	1.34	251.65	253.22		253.26	0.000057	0.85	1.57	2.46	0.22
MV15122	1.5			Culvert									
MV15122	1	Max WS	TR200_30min	1.38	251.60	252.66	252.18	252.74	0.001943	1.31	1.06	1.50	0.41
MV15122	1	Max WS	TR200_45min	1.40	251.60	252.67	252.18	252.75	0.001929	1.31	1.07	1.50	0.40
MV15122	1	Max WS	TR200_1H	1.40	251.60	252.67	252.18	252.76	0.001930	1.31	1.07	1.50	0.41
MV15122	1	Max WS	TR200_2H	1.38	251.60	252.66	252.18	252.74	0.001942	1.31	1.06	1.50	0.41
MV15122	1	Max WS	TR30_30min	1.32	251.60	252.62	252.16	252.71	0.002000	1.30	1.02	1.50	0.41
MV15122	1	Max WS	TR30_45min	1.33	251.60	252.63	252.17	252.71	0.001995	1.30	1.03	1.50	0.41
MV15122	1	Max WS	TR30_1H	1.34	251.60	252.63	252.17	252.72	0.001983	1.30	1.03	1.50	0.41
MV15122	1	Max WS	TR30_2H	1.34	251.60	252.63	252.17	252.72	0.001985	1.30	1.03	1.50	0.41
MV15122	0.9	Max WS	TR200_30min	1.38	251.59	252.69	252.03	252.73	0.002501	0.83	1.65	1.50	0.25
MV15122	0.9	Max WS	TR200_45min	1.39	251.59	252.70	252.03	252.74	0.002499	0.84	1.67	1.50	0.25
MV15122	0.9	Max WS	TR200_1H	1.40	251.59	252.70	252.04	252.74	0.002501	0.84	1.67	1.50	0.25
MV15122	0.9	Max WS	TR200_2H	1.38	251.59	252.69	252.03	252.73	0.002500	0.83	1.66	1.50	0.25
MV15122	0.9	Max WS	TR30_30min	1.32	251.59	252.66	252.02	252.69	0.002499	0.83	1.60	1.50	0.26
MV15122	0.9	Max WS	TR30_45min	1.33	251.59	252.66	252.02	252.70	0.002500	0.83	1.61	1.50	0.26
MV15122	0.9	Max WS	TR30_1H	1.34	251.59	252.67	252.02	252.70	0.002499	0.83	1.62	1.50	0.25
MV15122	0.9	Max WS	TR30_2H	1.34	251.59	252.67	252.02	252.70	0.002499	0.83	1.61	1.50	0.26

HEC-RAS River: Gabbianello Reach: MV15122 Profile: Max WS

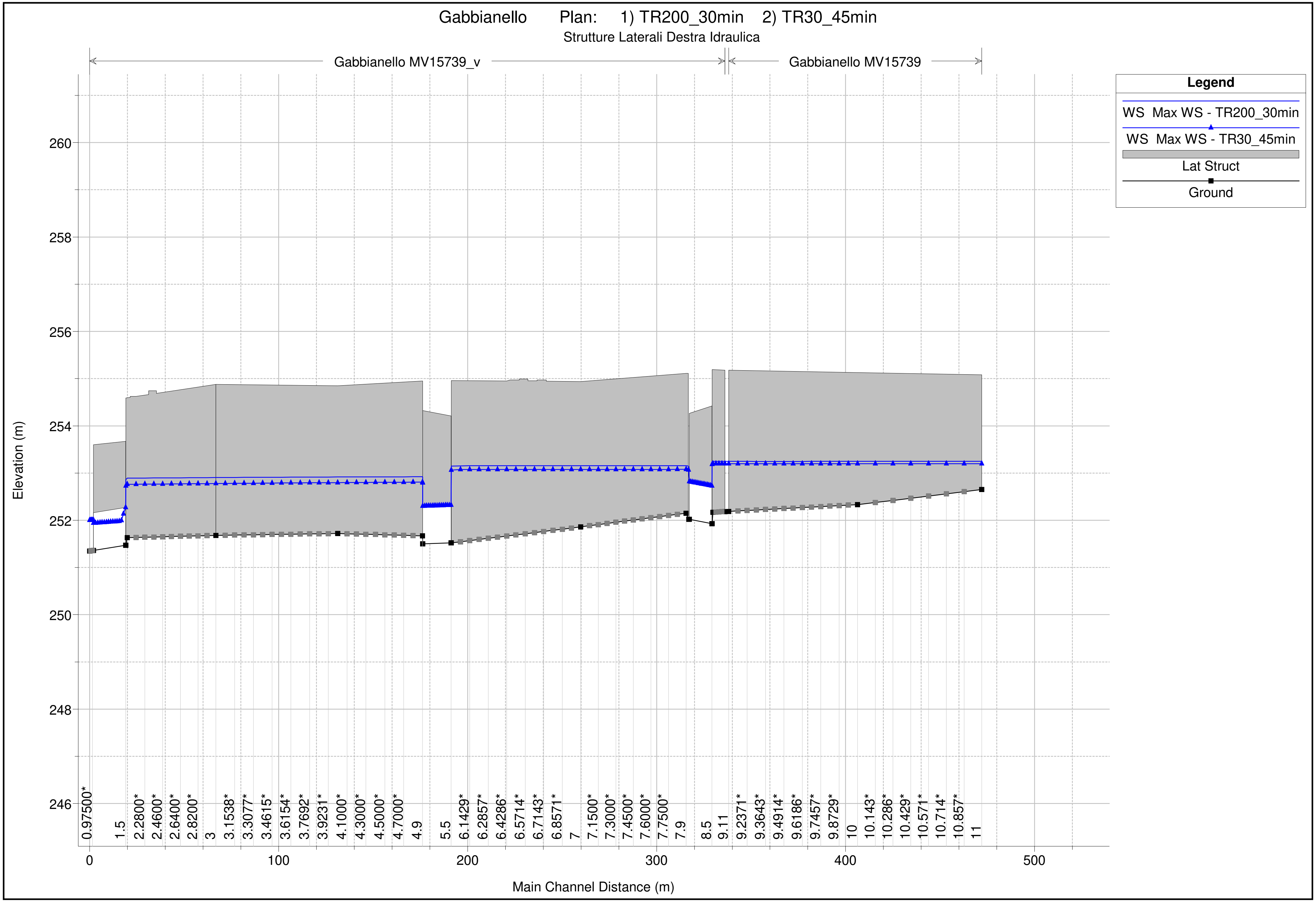
Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
MV15122	14.99	Max WS	TR200_30min	7.88	5.84	2.62	5.84		93.49	0.51	0.42	255.35	256.98	256.44	255.91	255.78
MV15122	14.99	Max WS	TR200_45min	8.03	4.98	2.67	4.98		93.49	0.52	0.43	255.35	257.00	256.44	255.92	255.79
MV15122	14.99	Max WS	TR200_1H	7.66	3.88	2.61	3.88		93.49	0.51	0.42	255.35	256.96	256.42	255.91	255.78
MV15122	14.99	Max WS	TR200_2H	5.75	3.27	2.26	3.27		93.49	0.45	0.35	255.35	256.73	256.32	255.85	255.74
MV15122	14.99	Max WS	TR30_30min	5.55	3.95	2.15	3.95		93.49	0.43	0.34	255.35	256.71	256.31	255.82	255.72
MV15122	14.99	Max WS	TR30_45min	5.70	3.11	2.20	3.11		93.49	0.44	0.35	255.35	256.73	256.32	255.83	255.73
MV15122	14.99	Max WS	TR30_1H	5.46	2.42	2.17	2.42		93.49	0.43	0.34	255.35	256.70	256.30	255.83	255.72
MV15122	14.99	Max WS	TR30_2H	4.14	2.07	1.88	2.07		93.49	0.38	0.29	255.35	256.53	256.22	255.77	255.68
MV15122	14.98	Max WS	TR200_30min	7.88	4.69	2.62	4.69		88.70	0.51	0.42	255.34	256.98	256.44	255.91	255.78
MV15122	14.98	Max WS	TR200_45min	8.03	3.39	2.67	3.39		88.70	0.52	0.43	255.34	257.00	256.44	255.92	255.79
MV15122	14.98	Max WS	TR200_1H	7.66	0.83	2.61	0.83		88.70	0.52	0.42	255.34	256.96	256.42	255.91	255.78
MV15122	14.98	Max WS	TR200_2H	5.75	1.93	2.26	1.93		88.70	0.45	0.36	255.34	256.73	256.32	255.85	255.74
MV15122	14.98	Max WS	TR30_30min	5.55	3.33	2.15	3.33		88.70	0.44	0.34	255.34	256.71	256.31	255.82	255.72
MV15122	14.98	Max WS	TR30_45min	5.70	1.86	2.20	1.86		88.70	0.45	0.35	255.34	256.73	256.32	255.83	255.73
MV15122	14.98	Max WS	TR30_1H	5.46	1.08	2.17	1.08		88.70	0.44	0.34	255.34	256.70	256.30	255.83	255.72
MV15122	14.98	Max WS	TR30_2H	4.14	1.41	1.88	1.41		88.70	0.39	0.29	255.34	256.53	256.22	255.77	255.68
MV15122	12.99	Max WS	TR200_30min	2.62	0.94	1.15	0.94		73.85	0.44	0.38	255.22	255.91	255.78	255.67	255.65
MV15122	12.99	Max WS	TR200_45min	2.67	0.25	1.21	0.25		73.85	0.46	0.39	255.22	255.92	255.79	255.67	255.65
MV15122	12.99	Max WS	TR200_1H	2.61	0.32	1.18	0.32		73.85	0.45	0.38	255.22	255.91	255.78	255.67	255.65
MV15122	12.99	Max WS	TR200_2H	2.26	0.43	0.95	0.43		73.85	0.40	0.34	255.22	255.85	255.74	255.63	255.61
MV15122	12.99	Max WS	TR30_30min	2.15	0.38	0.84	0.38		73.85	0.39	0.32	255.22	255.82	255.72	255.61	255.60
MV15122	12.99	Max WS	TR30_45min	2.20	0.22	0.86	0.22		73.85	0.40	0.33	255.22	255.83	255.73	255.62	255.61
MV15122	12.99	Max WS	TR30_1H	2.17	0.61	0.87	0.61		73.85	0.39	0.33	255.22	255.83	255.72	255.62	255.60
MV15122	12.99	Max WS	TR30_2H	1.88	0.33	0.73	0.33		73.85	0.36	0.29	255.22	255.77	255.68	255.58	255.57
MV15122	12.98	Max WS	TR200_30min	2.62	2.12	1.15	2.12		75.63	0.44	0.37	255.31	255.91	255.78	255.67	255.65
MV15122	12.98	Max WS	TR200_45min	2.67	1.22	1.21	1.22		75.63	0.45	0.38	255.31	255.92	255.79	255.67	255.65
MV15122	12.98	Max WS	TR200_1H	2.61	1.03	1.18	1.03		75.63	0.45	0.38	255.31	255.91	255.78	255.67	255.65
MV15122	12.98	Max WS	TR200_2H	2.26	1.18	0.95	1.18		75.63	0.40	0.33	255.31	255.85	255.74	255.63	255.61
MV15122	12.98	Max WS	TR30_30min	2.15	1.16	0.84	1.16		75.63	0.38	0.31	255.31	255.82	255.72	255.61	255.60
MV15122	12.98	Max WS	TR30_45min	2.20	0.88	0.86	0.88		75.63	0.39	0.32	255.31	255.83	255.73	255.62	255.61
MV15122	12.98	Max WS	TR30_1H	2.17	1.06	0.87	1.06		75.63	0.38	0.32	255.31	255.83	255.72	255.62	255.60
MV15122	12.98	Max WS	TR30_2H	1.88	0.90	0.73	0.90		75.63	0.34	0.29	255.31	255.77	255.68	255.58	255.57
MV15122	9.99	Max WS	TR200_30min	1.09	-0.64	1.08	-0.64		28.97	0.30	0.18	255.33	255.47	255.44	255.44	255.42
MV15122	9.99	Max WS	TR200_45min	1.19	-0.69	1.15	-0.69		28.97	0.31	0.18	255.33	255.48	255.46	255.45	255.44
MV15122	9.99	Max WS	TR200_1H	1.16	-0.65	1.12	-0.65		28.97	0.30	0.18	255.33	255.48	255.46	255.45	255.44
MV15122	9.99	Max WS	TR200_2H	0.94	-0.48	0.97	-0.48		28.96	0.26	0.14	255.33	255.44	255.42	255.41	255.40
MV15122	9.99	Max WS	TR30_30min	0.65	-0.39	0.92	-0.39		28.96	0.25	0.12	255.33	255.38	255.35	255.35	255.34
MV15122	9.99	Max WS	TR30_45min	0.79	-0.43	0.90	-0.43		28.96	0.25	0.13	255.33	255.41	255.40	255.38	255.37
MV15122	9.99	Max WS	TR30_1H	0.84	-0.41	0.93	-0.41		28.96	0.25	0.13	255.33	255.42	255.40	255.39	255.38
MV15122	9.99	Max WS	TR30_2H	0.73	-0.33	0.92	-0.33		23.57	0.22	0.13	255.33	255.39	255.36	255.35	255.34
MV15122	9.98	Max WS	TR200_30min	1.09	0.82	1.08	0.82		31.62	0.38	0.24	255.04	255.47	255.44	255.44	255.42
MV15122	9.98	Max WS	TR200_45min	1.19	0.87	1.15	0.87		31.62	0.40	0.25	255.04	255.48	255.46	255.45	255.44
MV15122	9.98	Max WS	TR200_1H	1.16	0.86	1.12	0.86		31.62	0.40	0.25	255.04	255.48	255.46	255.45	255.44
MV15122	9.98	Max WS	TR200_2H	0.94	0.41	0.97	0.41		31.62	0.36	0.22	255.04	255.44	255.42	255.41	255.40
MV15122	9.98	Max WS	TR30_30min	0.65	0.24	0.92	0.24		31.62	0.30	0.16	255.04	255.38	255.35	255.35	255.34
MV15122	9.98	Max WS	TR30_45min	0.79	0.29	0.90	0.29		31.62	0.33	0.19	255.04	255.41	255.40	255.38	255.37
MV15122	9.98	Max WS	TR30_1H	0.84	0.27	0.93	0.27		31.62	0.34	0.20	255.04	255.42	255.40	255.39	255.38
MV15122	9.98	Max WS	TR30_2H	0.73	0.30	0.92	0.30		31.62	0.30	0.16	255.04	255.39	255.36	255.35	255.34
MV15122	8.99	Max WS	TR200_30min	1.08	-0.74	1.64	-0.74		46.44	0.22	0.17	255.26	255.44	255.42	255.43	255.41
MV15122	8.99	Max WS	TR200_45min	1.15	-0.77	1.70	-0.77		46.44	0.23	0.18	255.26	255.45	255.44	255.45	255.43
MV15122	8.99	Max WS	TR200_1H	1.12	-0.72	1.66	-0.72		46.44	0.22	0.18	255.26	255.45	255.44	255.44	255.43
MV15122	8.99	Max WS	TR200_2H	0.97	-0.64	1.50	-0.64		46.44	0.20	0.15	255.26	255.41	255.40	255.41	255.39
MV15122	8.99	Max WS	TR30_30min	0.92	-0.52	1.37	-0.52		46.44	0.17	0.12	255.26	255.35	255.34	255.36	255.32
MV15122	8.99	Max WS	TR30_45min	0.90	-0.54	1.45	-0.54		46.44	0.18	0.13	255.26	255.38	255.37	255.39	255.36
MV15122	8.99	Max WS	TR30_1H	0.93	-0.56	1.47	-0.56		46.44	0.18	0.13	255.26	255.39	255.38	255.39	255.36
MV15122	8.99	Max WS	TR30_2H	0.92	-0.44	1.40	-0.44		46.44	0.16	0.11	255.26	255.35	255.34	255.37	255.33
MV15122	8.98	Max WS	TR200_30min	1.08	0.59	1.57	0.59		24.30	0.38	0.23	255.04	255.44	255.42	255.43	255.43
MV15122	8.98	Max WS	TR200_45min	1.15	0.53	1.64	0.53		24.30	0.40	0.24	255.04	255.45	255.44	255.44	255.44
MV15122	8.98	Max WS	TR200_1H	1.12	0.54	1.60	0.54		24.30	0.40	0.24	255.04	255.45	255.44	255.44	255.44
MV15122	8.98	Max WS	TR200_2H	0.97	0.21	1.43	0.21		24.30	0.36	0.20	255.04	255.41	255.40	255.41	255.40
MV15122	8.98	Max WS	TR30_30min	0.92	0.15	1.26	0.15		24.30	0.30	0.14	255.04	255.35	255.34	255.34	255.34
MV15122	8.98	Max WS	TR30_45min	0.90	0.19	1.35	0.19		24.30	0.33	0.18	255.04	255.38	255.37	255.38	255.38
MV15122	8.98	Max WS	TR30_1H	0.93	0.16	1.38	0.16		24.30	0.34	0.18	255.04	255.39	255.38	255.38	255.38
MV15122	8.98	Max WS	TR30_2H	0.92	0.31	1.28	0.31		24.30	0.30	0.14	255.04	255.35	255.34	255.34	255.34
MV15122	8.20	Max WS	TR200_30min	1.57	0.07	1.64	0.07		6.33	0.14	0.13	255.29	255.43	255.43	255.43	255.41
MV15122	8.20	Max WS	TR200_45min	1.64	0.05	1.70	0.05		6.33	0.15	0.15	255.29	255.44	255.44	255.45	255.43
MV15122	8.20	Max WS	TR200_1H	1.60	0.06	1.66	0.06		6.33	0.15	0.15	255.29	255.44	255.44	255.44	255.43
MV15122	8.20	Max WS	TR200_2H	1.43	-0.02	1.50	-0.02		6.33	0.12	0.11	255.29	255.41	255.40	255.41	255.39
MV15122	8.20	Max WS	TR30_30min	1.26	-0.02	1.37	-0.02		6.33	0.05	0.05	255.29	255.34	255.34	255.36	255.32
MV15122	8.20	Max WS	TR30_45min	1.35	-0.01	1.45	-0.01		6.33	0.09	0.08	255.29	255.38	255.38	255.39	255.36
MV15122	8.20	Max WS	TR30_1H	1.38	-0.02	1.47	-0.02		6.33	0.09	0.09	255.29	255.38	255.38	255.39	255.36
MV15122	8.20	Max WS	TR30_2H	1.28	0.02	1.40	0.02		6.33	0.05	0.05	255.29	255.34	255.34	255.37	255.33
MV15122	6.99	Max WS	TR200_30min	1.46	-0.01	1.52	-0.01		25.15	0.02	0.01	255.26	254.96	254.89	254.92	254.92
MV15122	6.99	Max WS	TR200_45min	1.44	-0.02	1.54	-0.02		27.16	0.03	0.02	255.26	255.05	254.98	255.02	255.01
MV15122	6.99	Max WS	TR200_1H	1.44	-0.03	1.55	-0.03		27.40	0.03	0.02	255.26	255.07	255.01	255.04	255.04
MV15122	6.99	Max WS	TR200_2H	1.46	0.00	1.49	0.00		21.05	0.02	0.01	255.26	254.95	254.87	254.91	254.91
MV15122	6.99	Max WS	TR30_30min	1.35	0.00	1.58	0.00					255.26	254.81	254.72	254.77	254.76
MV15122	6.99	Max WS	TR30_45min	1.38	0.00	1.66	0.00		0.74	0.00	0.00	255.26	254.83	254.74	254.78	254.77
MV15122	6.99	Max WS	TR30_1H	1.38	0.00	1.44	0.00		0.73	0.00	0.00	255.26	254.83	254.74	254.78	254.78
MV15122	6.99	Max WS	TR30_2H	1.36	0.00	1.51	0.00					255.26	254.82	254.73	254.78	254.78
MV15122	6.98	Max WS	TR200_30min	1.46	-0.06	1.54	-0.06		54.95	0.05	0.02	255.11	254.96	254.89	254.93	254.90
MV15122	6.98	Max WS	TR200_45min	1.44	-0.12	1.60	-0.12		57.21	0.07	0.04	255.11	255.05	254.98	255.03	254.99
MV15122	6.98	Max WS	TR200_1H	1.44	-0.13	1.62	-0.13		57.21	0.07	0.04	255.11	255.07	255.01	255.05	255.02
MV15122	6.98	Max WS	TR200_2H	1.46	-0.04	1.53	-0.04		49.39	0.04	0.02	255.11	254.95	254.87	254.92	254.88
MV15122	6.98	Max WS	TR30_30min	1.35	0.00	1.43	0.00					255.11	254.81	254.72	254.78	254.74
MV15122	6.98	Max WS	TR30_45min	1.38	0.00	1.45	0.00					255.11	254.83	254.74	254.79	254.75
MV15122	6.98	Max WS	TR30_1H	1.38	0.00	1.45	0.00		9.87	0.00	0.00	255.11	254.83	254.74	254.79	254.75
MV15122	6.98	Max WS	TR30_2H	1.36	0.00	1.44	0.00					255.11	254.82	254.73	254.79	254.75
MV15122	5.99	Max WS	TR200_30min	1.52	-0.01	1.54	-0.01		14.65	0.03	0.02	255.10	254.92	254.92	254.93	254.90
MV15122	5.99	Max WS	TR200_45min	1.54	-0.03	1.60	-0.03		23.30	0.04	0.02	255.10	255.02	255.01	255.03	254.99
MV15122	5.99	Max WS	TR200_1H	1.55	-0.04	1.62	-0.04		27.10	0.05	0.03	255.10	255.04	255.04	255.05	255.02
MV15122	5.99	Max WS	TR200_2H	1.49	-0.02	1.53	-0.02		22.41	0.04	0.02	255.10	254.91	254.91	254.92	254.88
MV15122	5.99	Max WS	TR30_30min	1.58	0.00	1.43	0.00					255.10	254.77	254.76	254.78	254.74
MV15122	5.99	Max WS	TR30_45min	1.66	0.00	1.45	0.00		5.24	0.02	0.01	255.10	254.78	254.77	254.79	254.75
MV15122	5.99	Max WS	TR30_1H	1.44	0.00	1.45	0.00		5.24	0.02	0.02	255.10	254.78	254.78	254.79	254.75
MV15122	5.99	Max WS	TR30_2H	1.51	0.00	1.44	0.00		5.24	0.02	0.02	255.10	254.78	254.78	254.79	254.75
MV15122	3.99	Max WS	TR200_30min	1.52	0.72	1.38	0.72		48.72	0.24	0.14	253.05	253.52	253.43	253.32	253.29
MV15122	3.99	Max WS	TR200_45min	1.58	0.86	1.40	0.86		49.29	0.27	0.16	253.05	253.54	253.45	253.34	253.32
MV15122	3.99	Max WS	TR200_1H	1.61	0.90	1.40	0.90		49.53	0.27	0.16	253.05	253.55	253.45	253.35	253.32
MV15122	3.99	Max WS	TR200_2H	1.52	0.74	1.38	0.74		49.17	0.25	0.14	253.05	253.52	253.43	253.32	253.30
MV15122	3.99	Max WS	TR30_30min	1.41	0.29	1.32	0.29		47.71	0.16	0.08	253.05	253.46	253.38	253.24	253.22
MV15122	3.99	Max WS	TR30_45min	1.43	0.35	1.33	0.35		48.09	0.18	0.09	253.05	253.47	253.39	253.25	253.23
MV15122	3.99	Max WS	TR30_1H	1.41	0.41	1.34	0.41		48.24	0.19	0.10	253.05	253.47	253.39	253.26	253.24
MV15122	3.99	Max WS	TR30_2H	1.42	0.38	1.34	0.38		48.30	0.18	0.09	253.05	253.47	253.39	253.26	253.23
MV15122	3.98	Max WS	TR200_30min	1.52	0.17	1.38	0.17		48.45	0.27	0.21	253.03	253.52	253.43	253.32	253.28

HEC-RAS River: Gabbianello Reach: MV15122 Profile: Max WS (Continued)

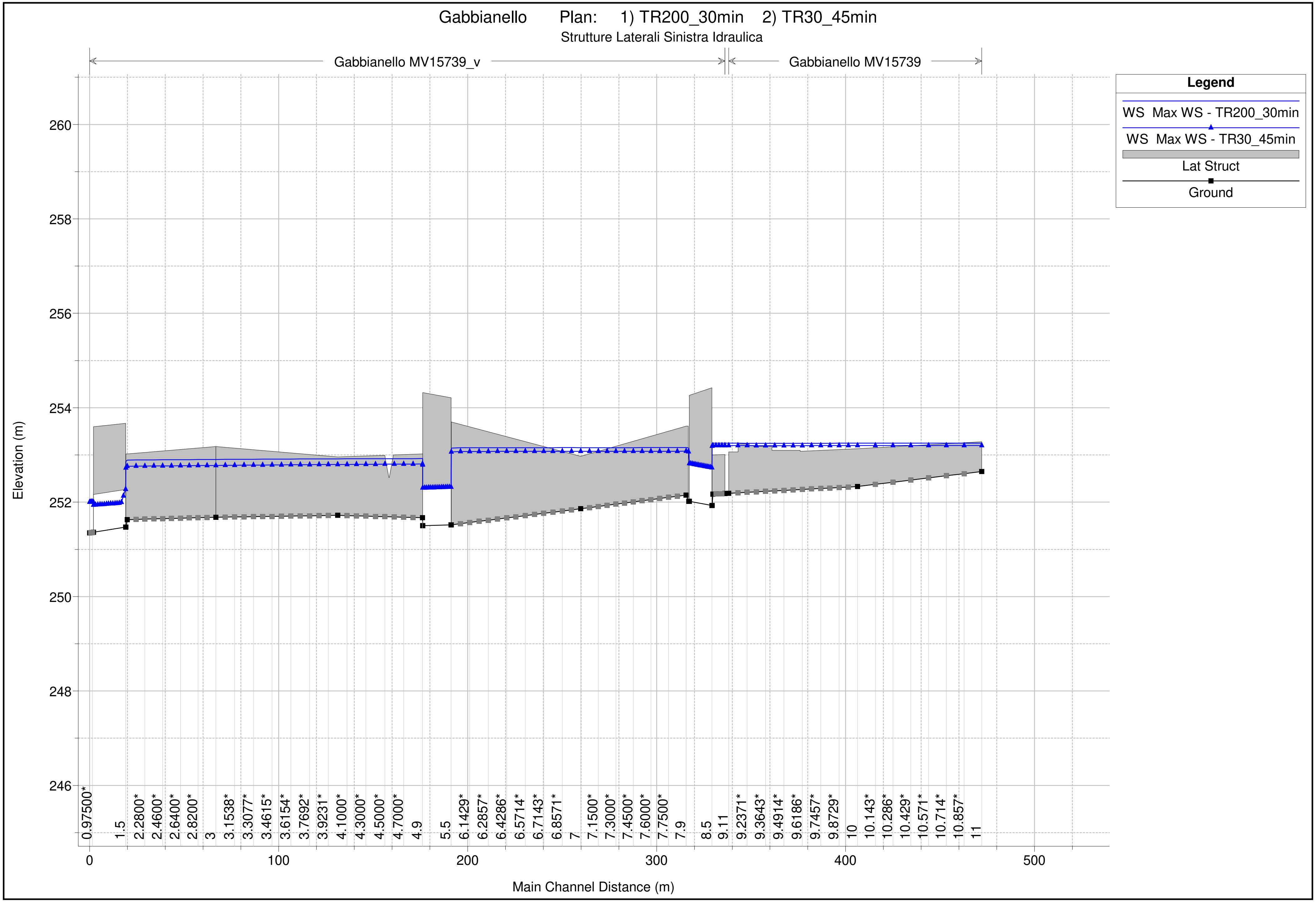
Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
MV15122	3.98	Max WS	TR200_45min	1.58	0.36	1.40	0.36		48.69	0.29	0.22	253.03	253.54	253.45	253.34	253.30
MV15122	3.98	Max WS	TR200_1H	1.61	-0.71	1.40	-0.71		48.74	0.31	0.25	253.03	253.55	253.45	253.35	253.30
MV15122	3.98	Max WS	TR200_2H	1.52	-1.21	1.38	-1.21		48.93	0.34	0.25	253.03	253.52	253.43	253.32	253.28
MV15122	3.98	Max WS	TR30_30min	1.41	-0.52	1.32	-0.52		47.97	0.20	0.16	253.03	253.46	253.38	253.24	253.20
MV15122	3.98	Max WS	TR30_45min	1.43	-0.84	1.33	-0.84		48.27	0.24	0.18	253.03	253.47	253.39	253.26	253.21
MV15122	3.98	Max WS	TR30_1H	1.41	-0.48	1.34	-0.48		48.12	0.23	0.18	253.03	253.47	253.39	253.27	253.23
MV15122	3.98	Max WS	TR30_2H	1.42	-0.16	1.34	-0.16		47.88	0.22	0.17	253.03	253.47	253.40	253.26	253.22

FOSSO

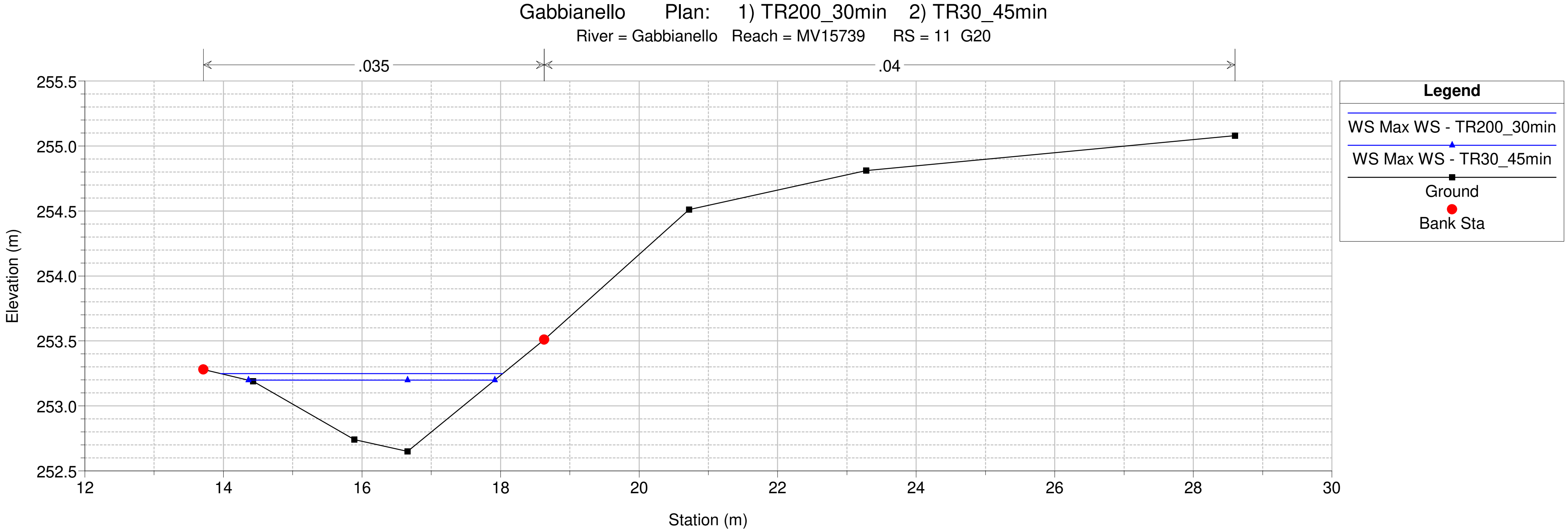
MV15739

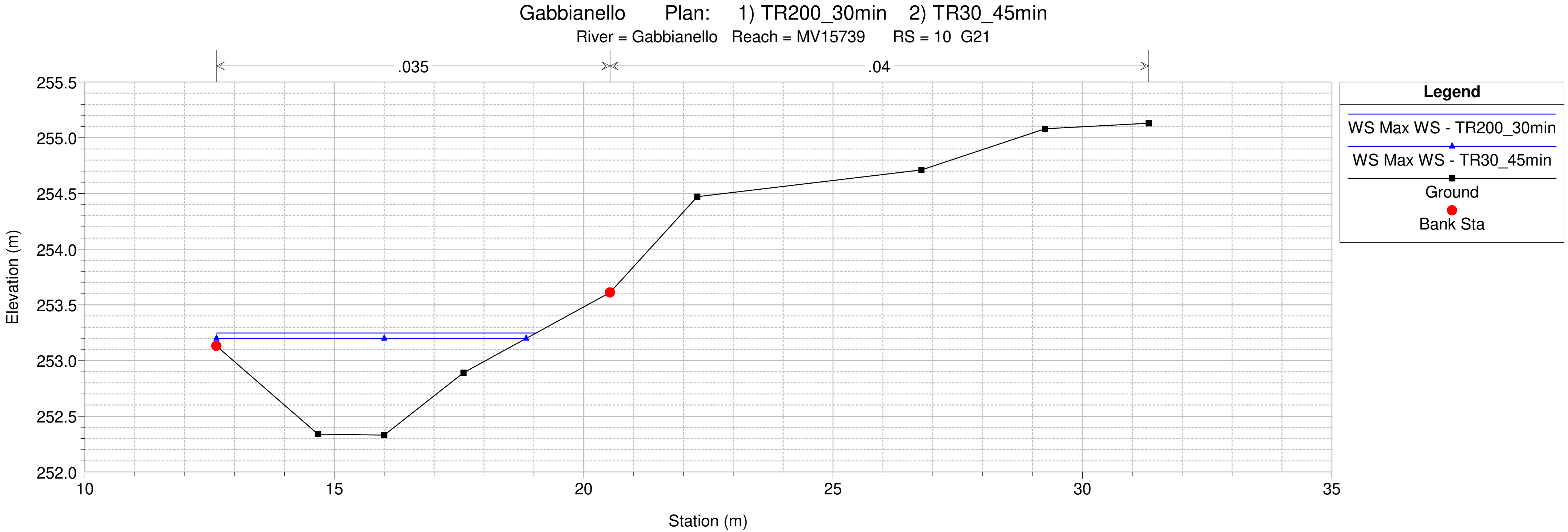


1 cm Horiz. = 25 m 1 cm Vert. = 1 m



1 cm Horiz. = 25 m 1 cm Vert. = 1 m


Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739 RS = 11 G20
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
12
14
16
18
20
22
24
26
28
30


Gabbianello Plan: 1) TR200_30min 2) TR30_45min
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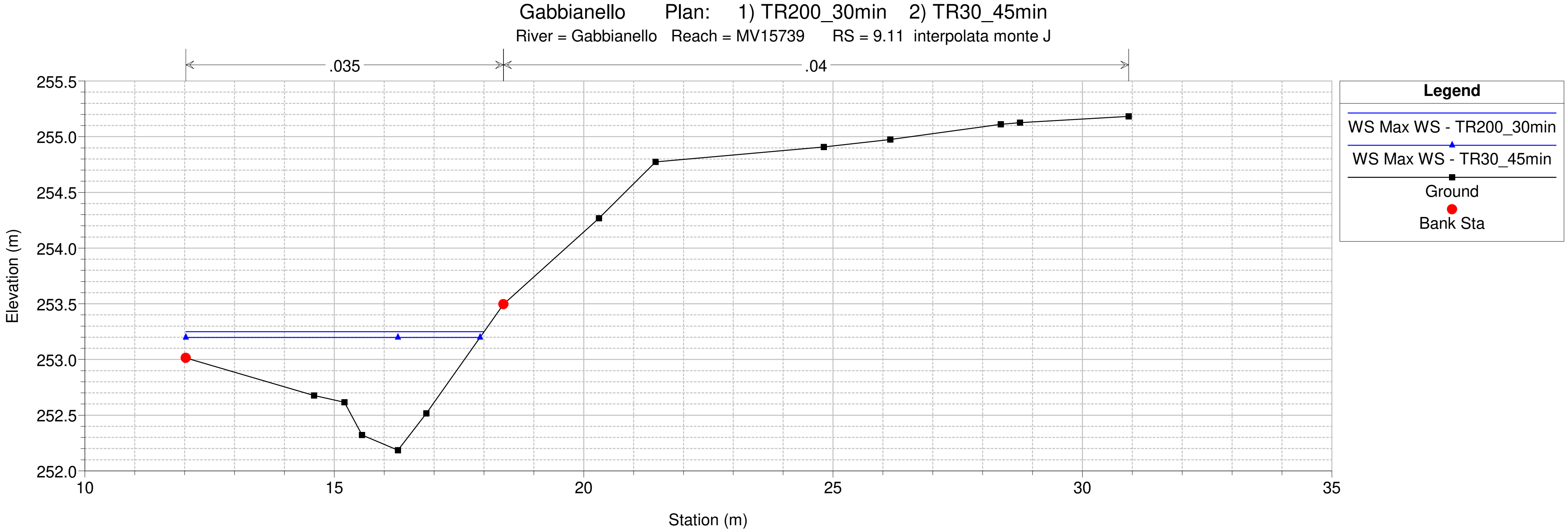
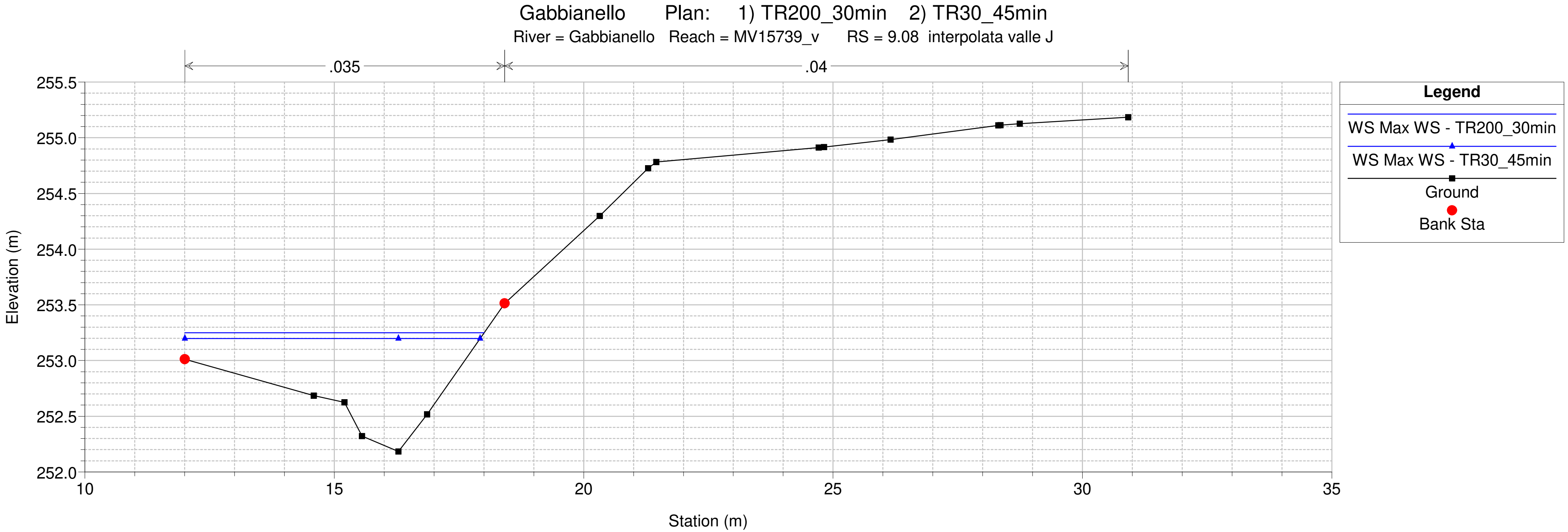
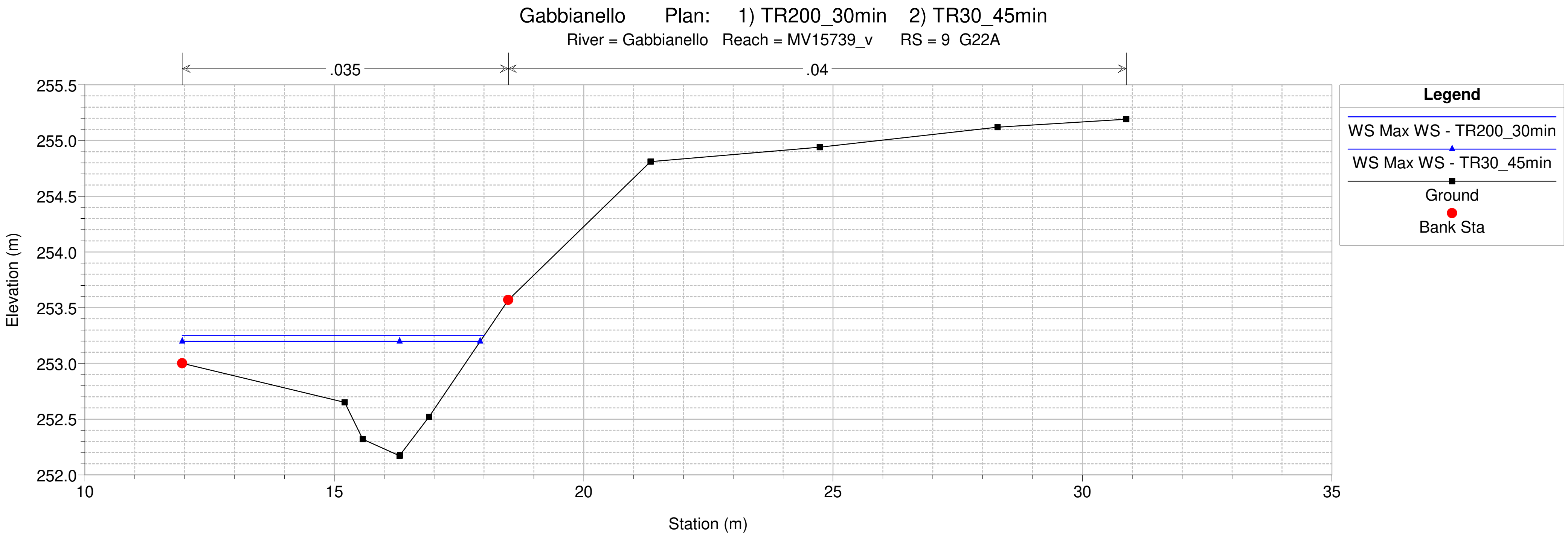
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
252.0
10
15
20
25
30
35

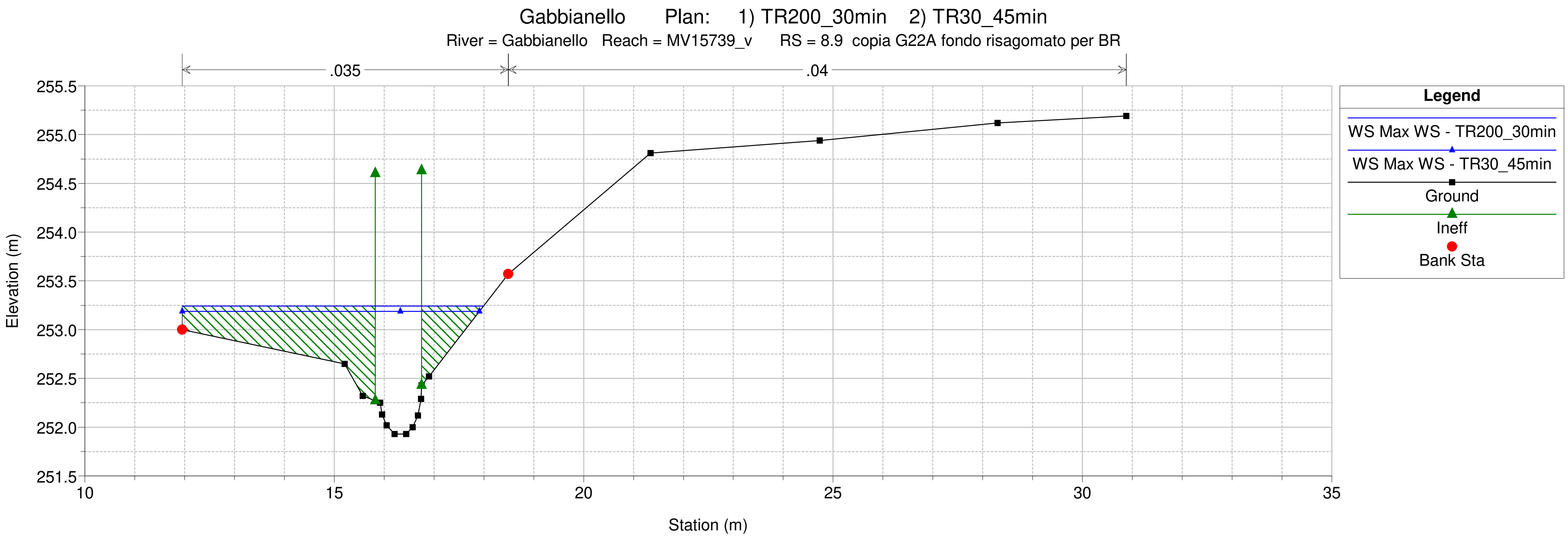


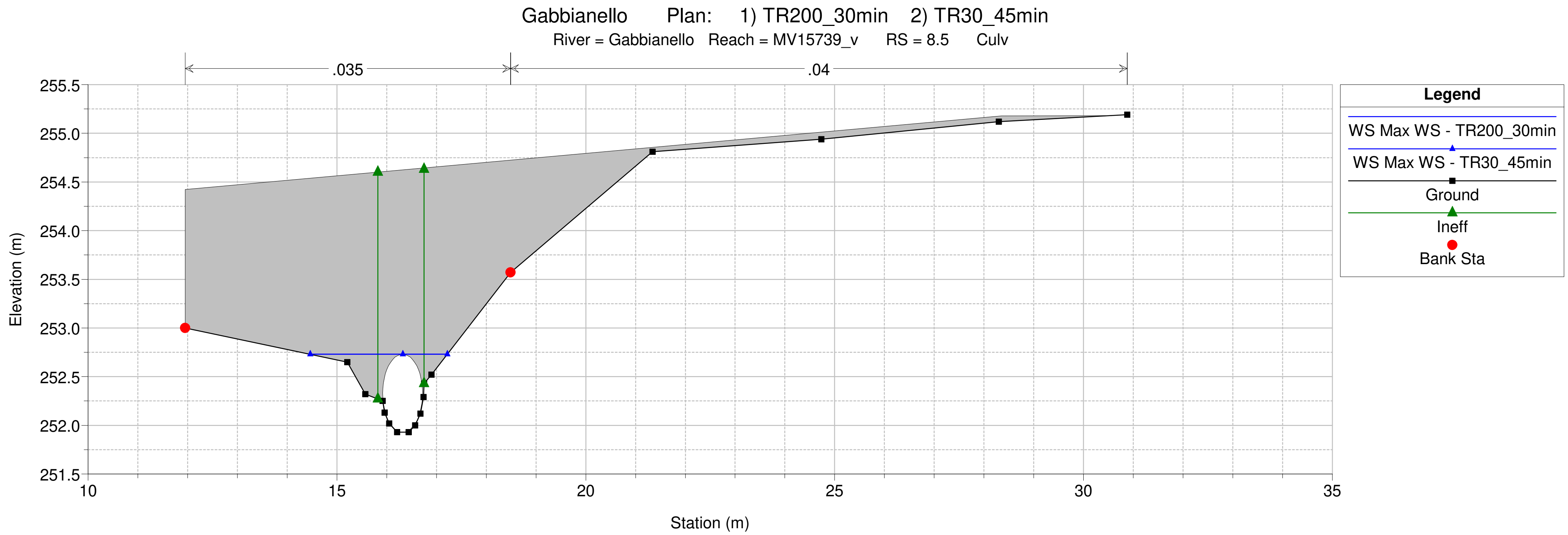
Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739 RS = 9.11 interpolata monte J
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)

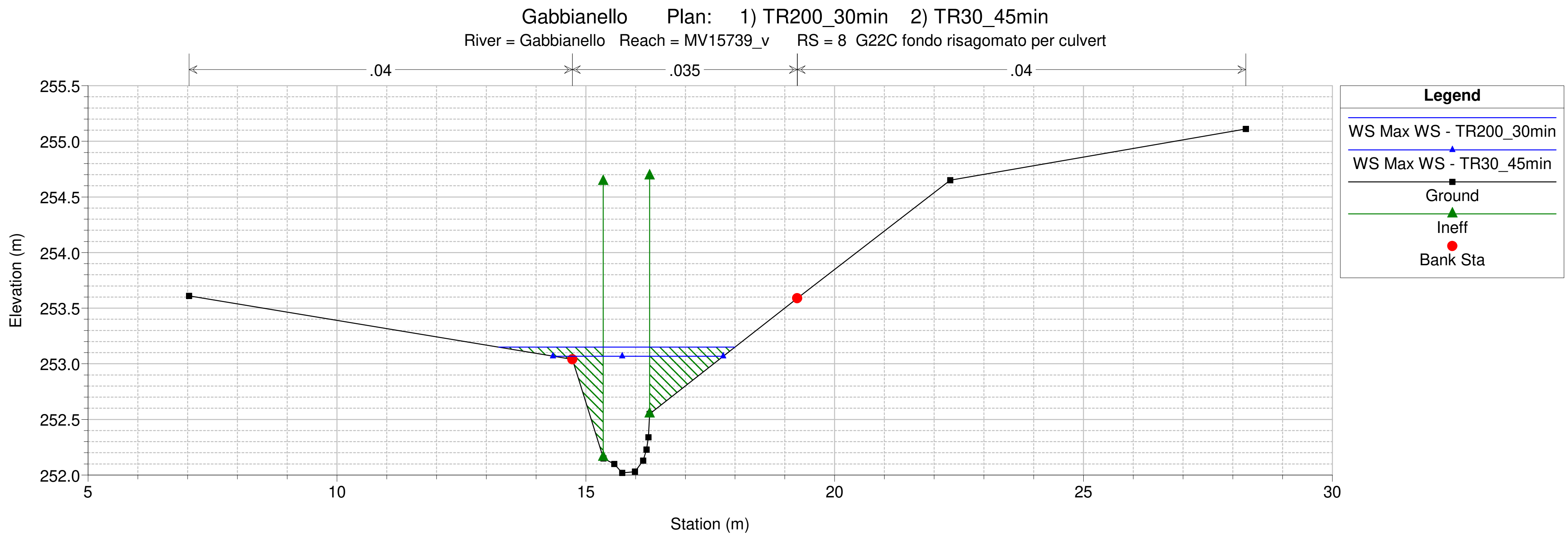


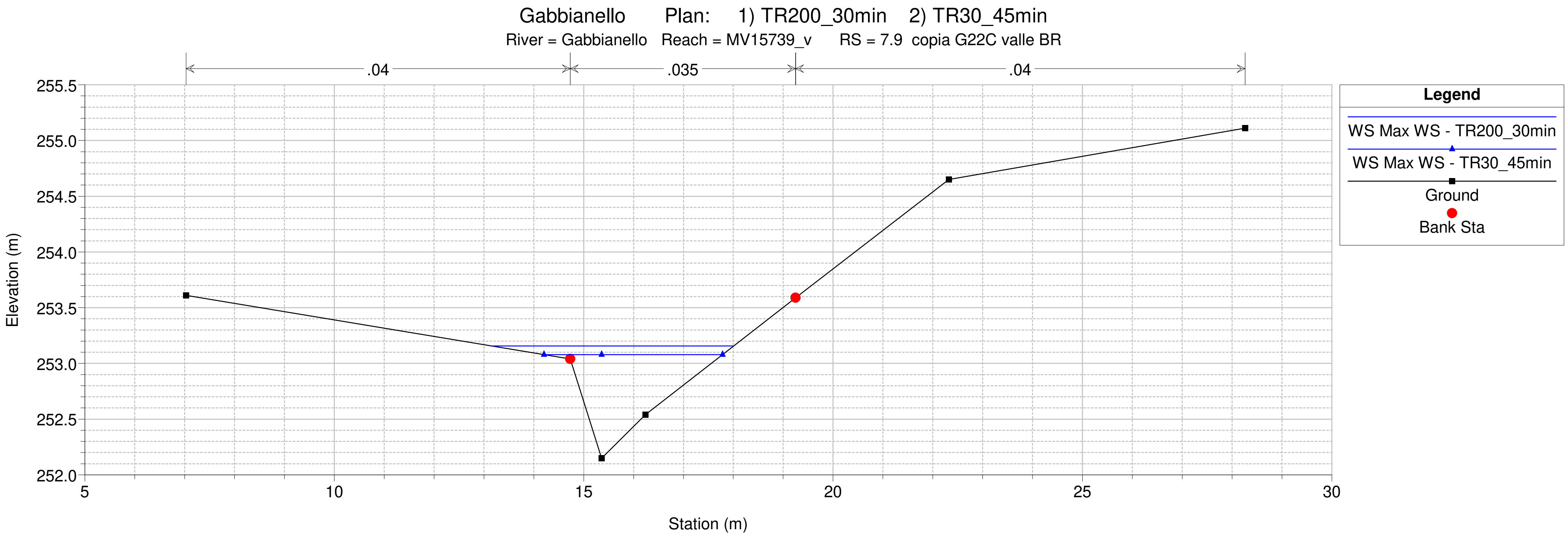
Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 9.08 interpolata valle J
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)

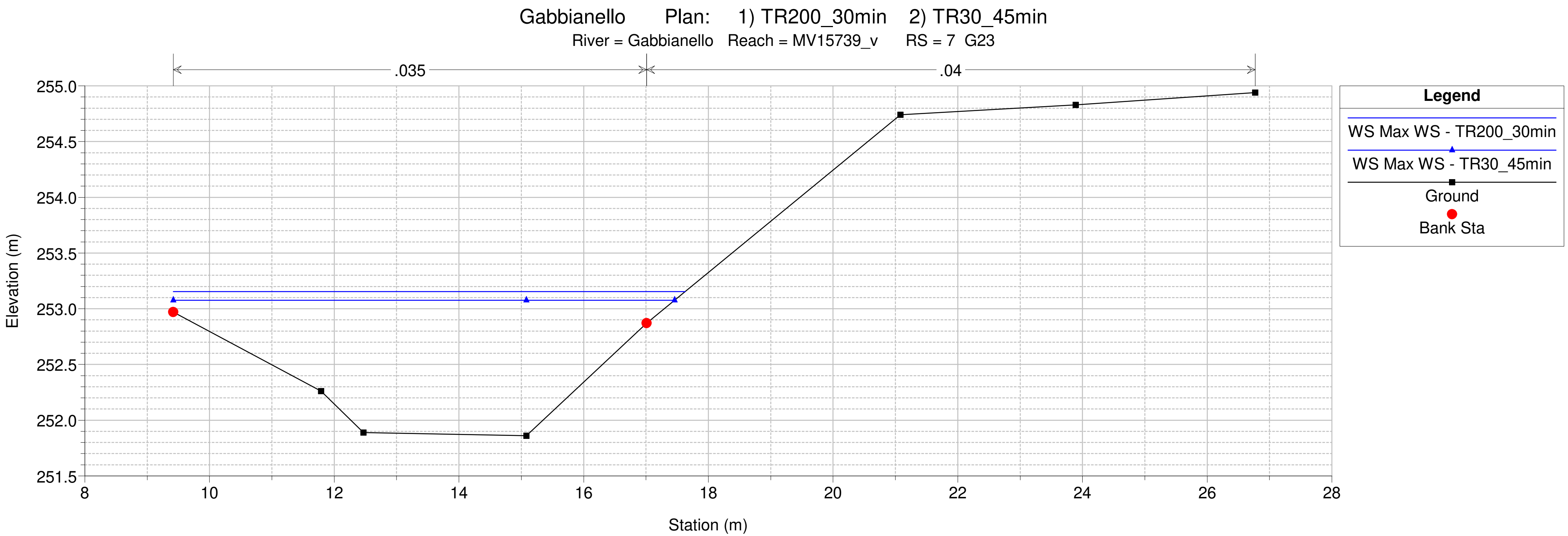

Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 9 G22A
.035
.04
Elevation (m)
Station (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
252.0
10
15
20
25
30
35
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta

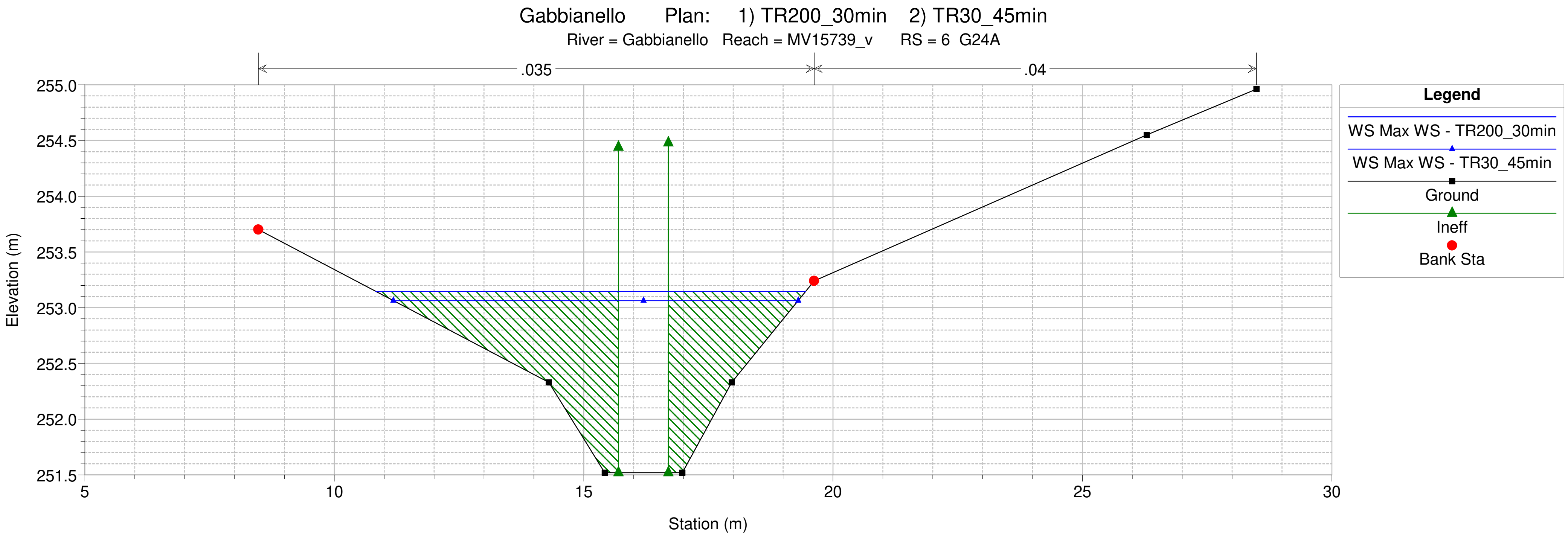

Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 8.9 copia G22A fondo risagomato per BR
.035
.04
Elevation (m)
Station (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
252.0
251.5
10
15
20
25
30
35
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta


Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 8.5 Culv
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta

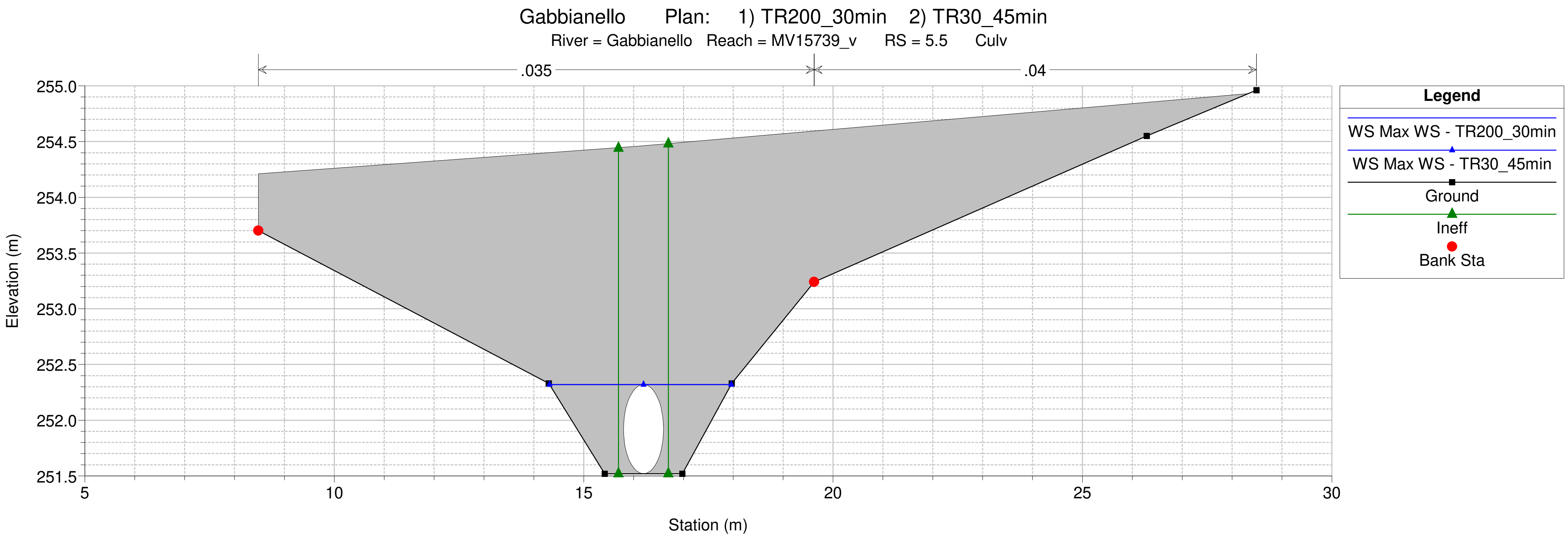

Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 8 G22C fondo risagomato per culvert
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta


Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 7.9 copia G22C valle BR
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)

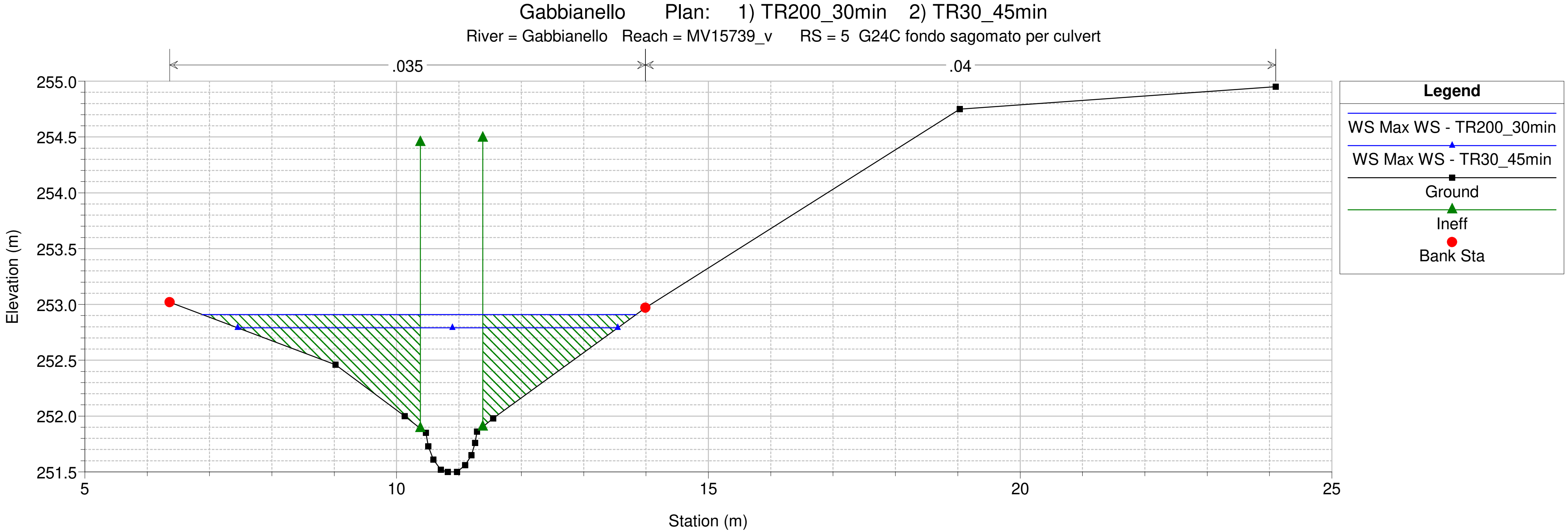

Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 7 G23
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)

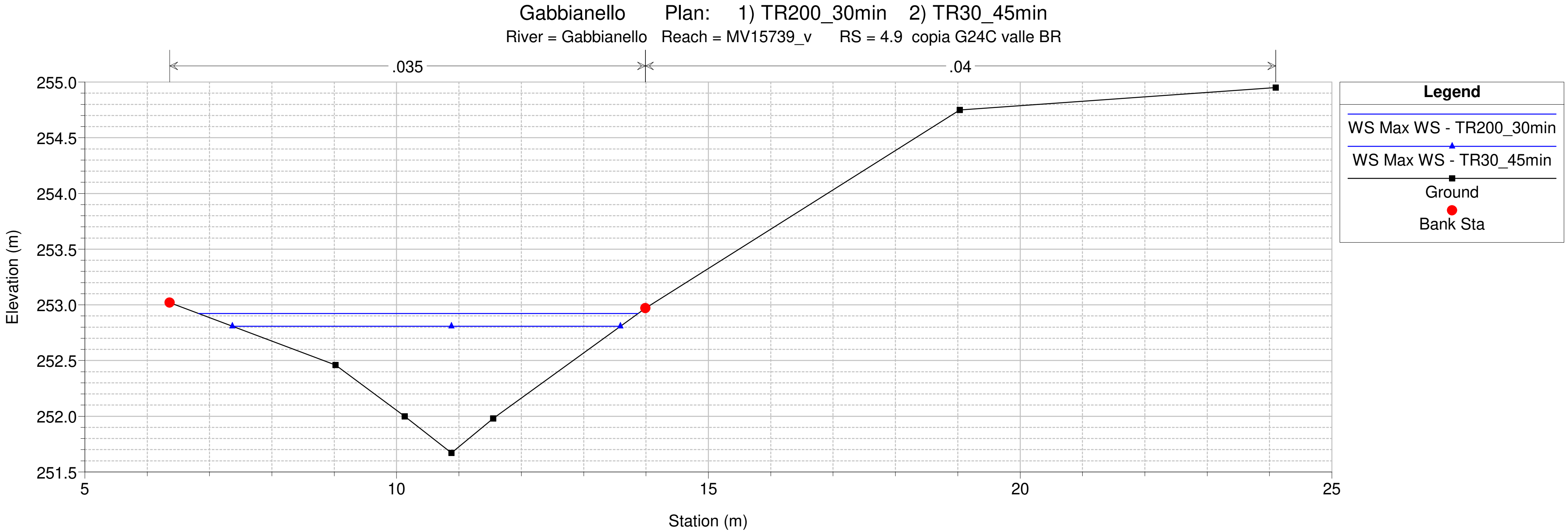


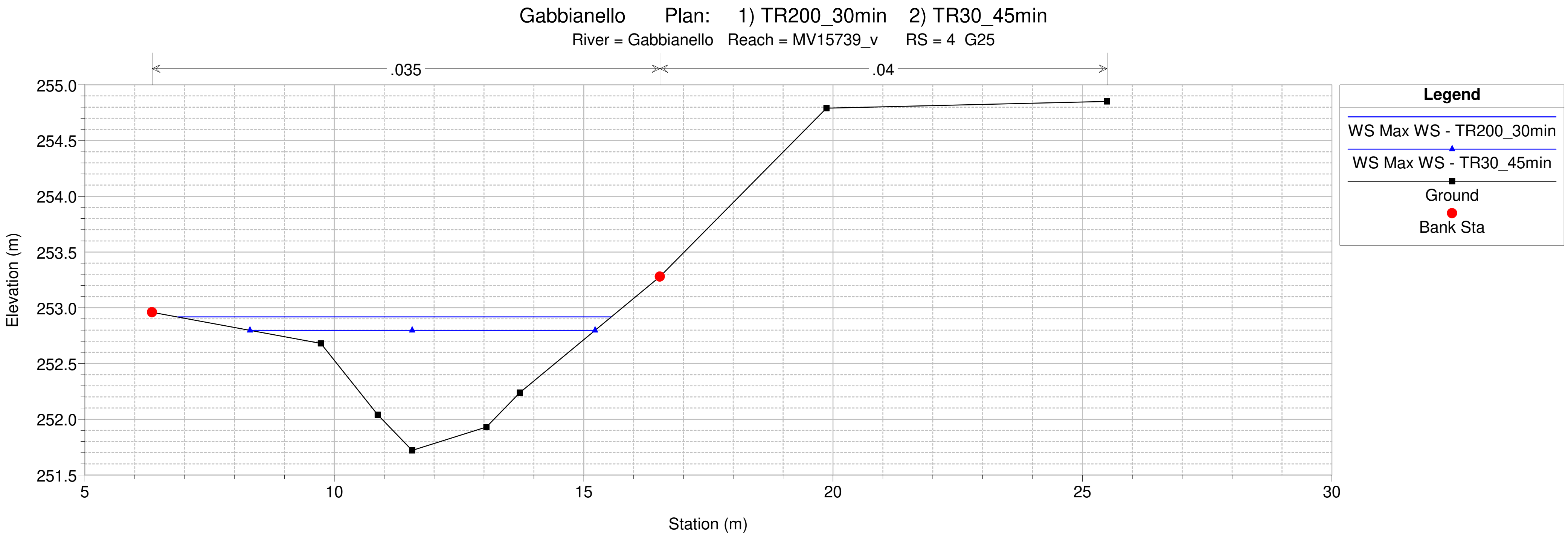
Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 6 G24A
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta

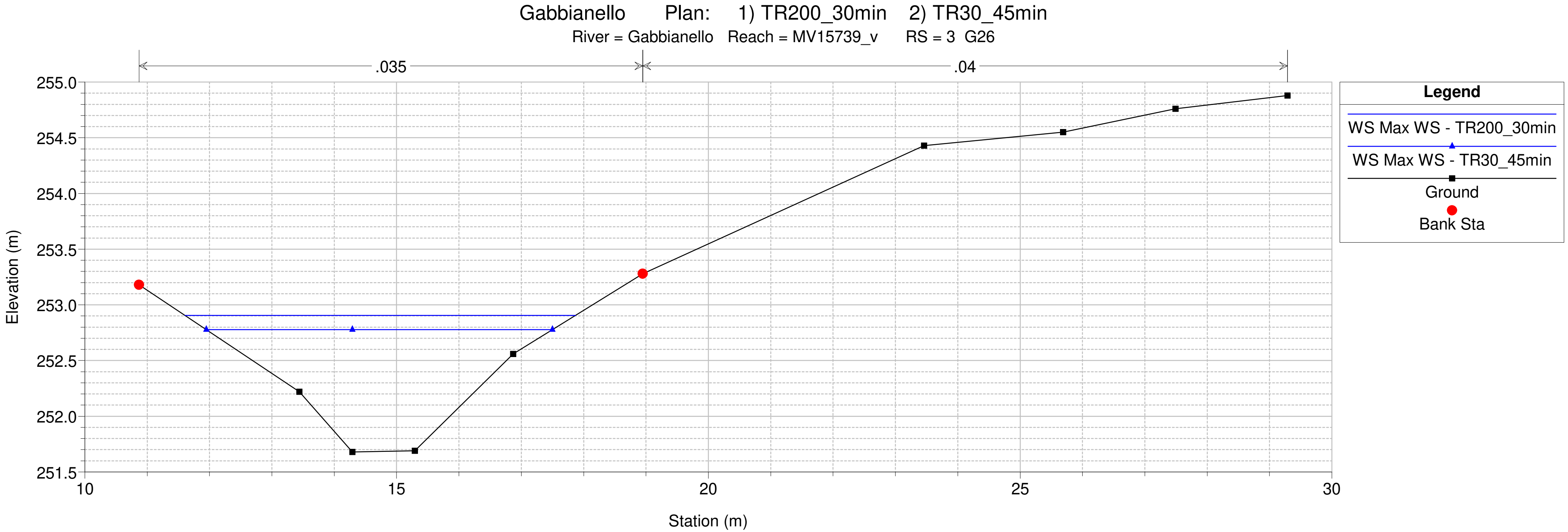


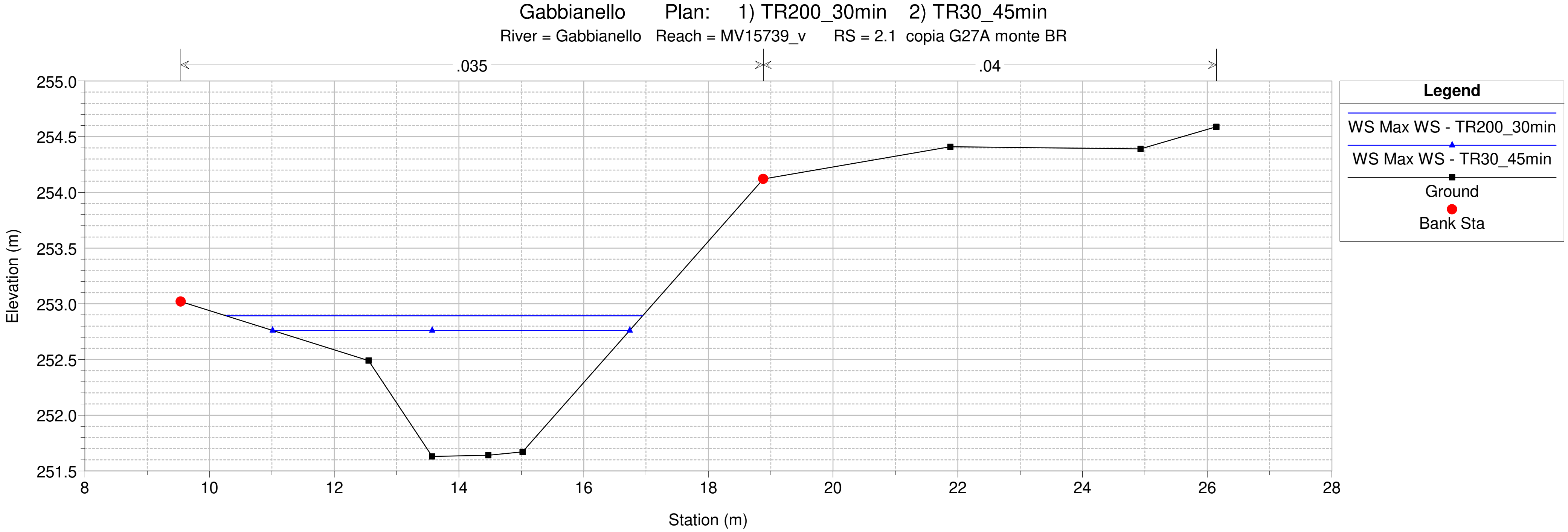
Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 5.5 Culv
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta

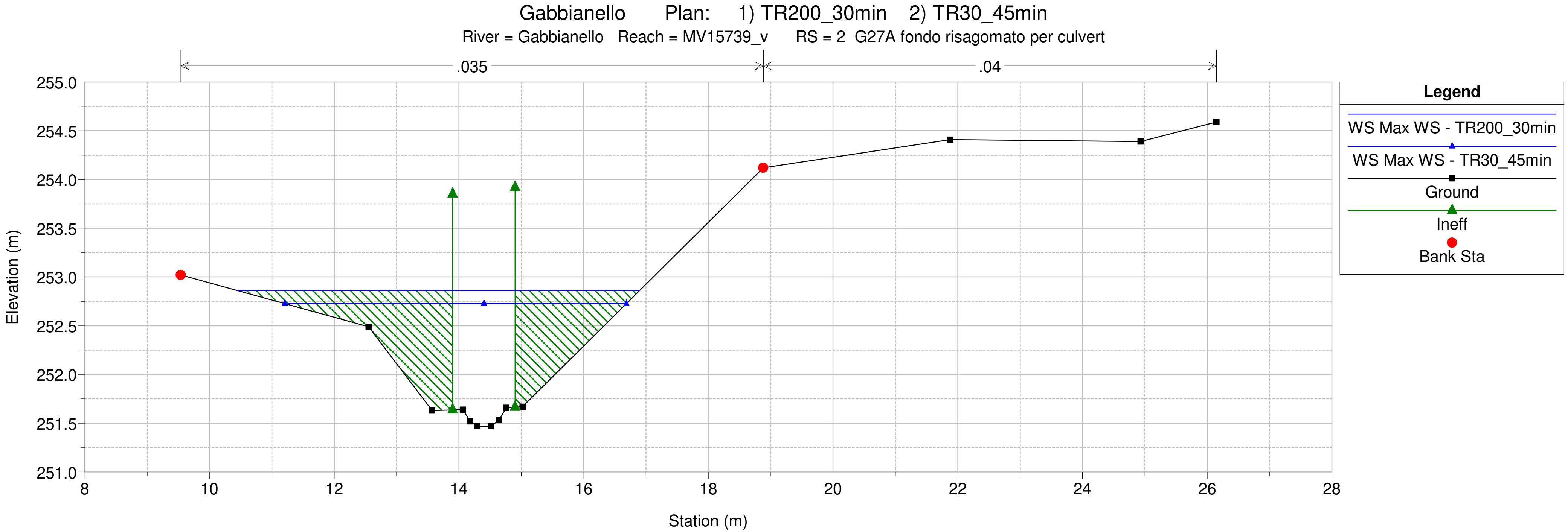

Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 5 G24C fondo sagomato per culvert
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta

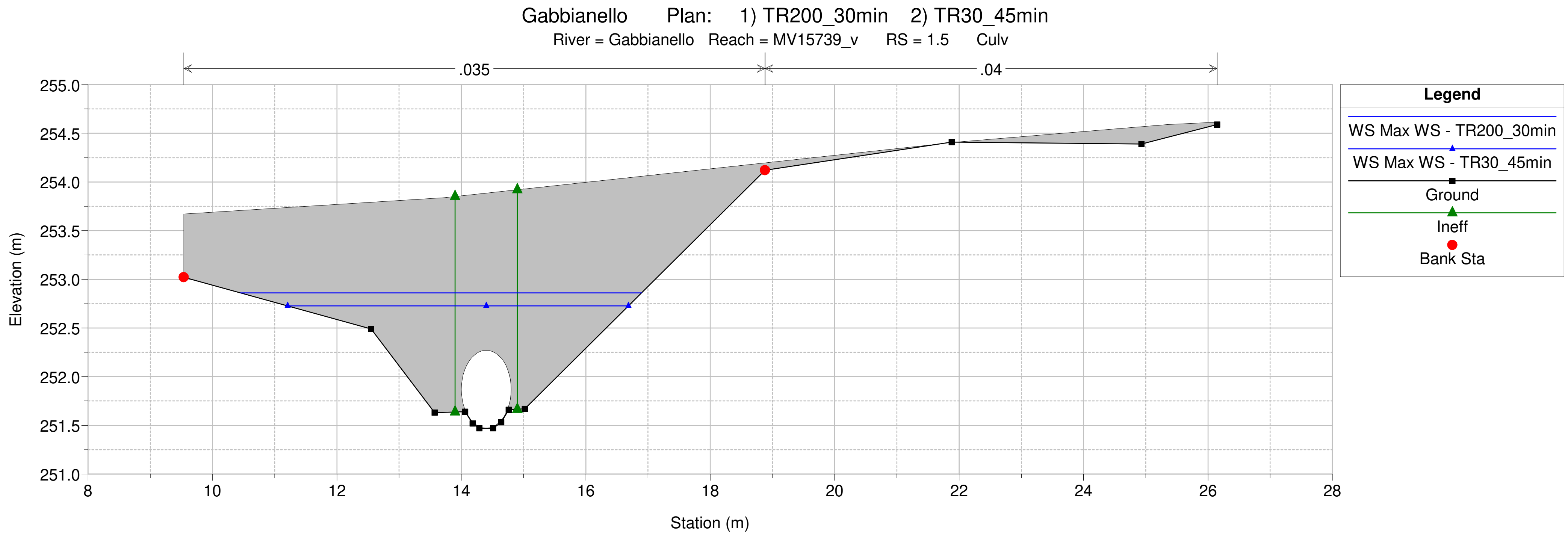

Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 4.9 copia G24C valle BR
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta

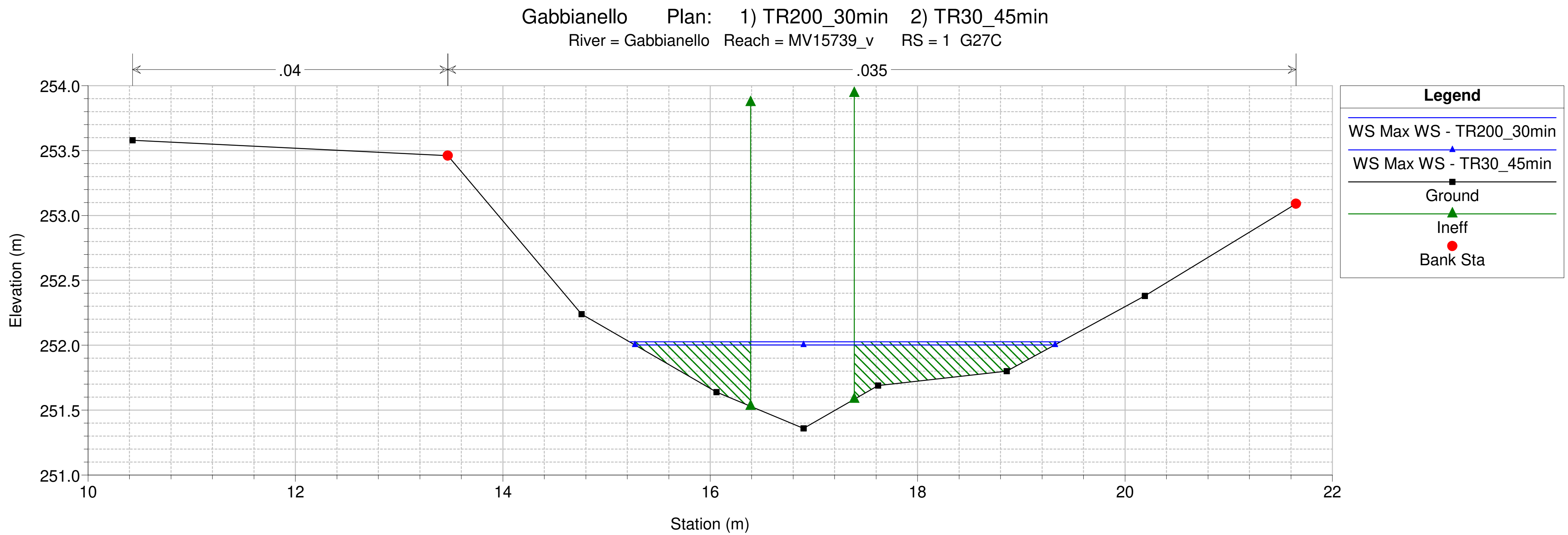

Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 4 G25
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)
255.0
254.5
254.0
253.5
253.0
252.5
252.0
251.5
5
10
15
20
25
30

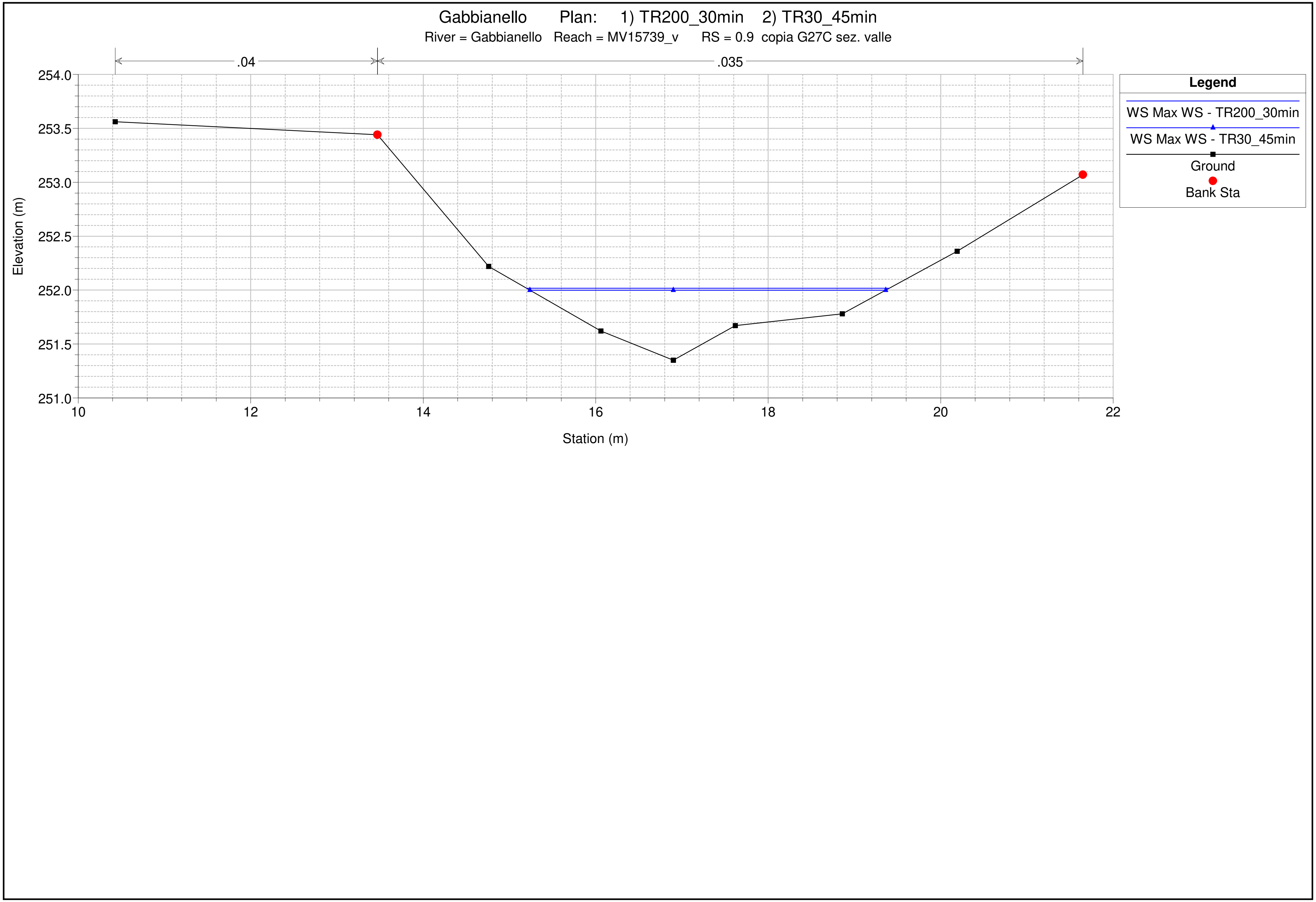

Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 3 G26
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)
255.0
254.5
254.0
253.5
253.0
252.5
252.0
251.5
10
15
20
25
30


Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 2.1 copia G27A monte BR
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)
255.0
254.5
254.0
253.5
253.0
252.5
252.0
251.5
8
10
12
14
16
18
20
22
24
26
28


Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 2 G27A fondo risagomato per culvert
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
255.0
254.5
254.0
253.5
253.0
252.5
252.0
251.5
251.0
8
10
12
14
16
18
20
22
24
26
28


Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 1.5 Culv
.035
.04
Elevation (m)
255.0
254.5
254.0
253.5
253.0
252.5
252.0
251.5
251.0
8
10
12
14
16
18
20
22
24
26
28
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta


Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 1 G27C
.04
.035
Elevation (m)
254.0
253.5
253.0
252.5
252.0
251.5
251.0
10
12
14
16
18
20
22
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Ineff
Bank Sta



Gabbianello Plan: 1) TR200_30min 2) TR30_45min
River = Gabbianello Reach = MV15739_v RS = 0.9 copia G27C sez. valle
.04
.035
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_45min
Ground
Bank Sta
Elevation (m)
Station (m)
254.0
253.5
253.0
252.5
252.0
251.5
251.0
10
12
14
16
18
20
22

HEC-RAS Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15739	11	Max WS	TR200_30min	0.05	252.65	253.25	252.76	253.25	0.000010	0.04	1.27	4.07	0.02
MV15739	11	Max WS	TR200_45min	0.05	252.65	253.24	252.76	253.24	0.000010	0.04	1.23	3.98	0.02
MV15739	11	Max WS	TR200_1H	0.05	252.65	253.25	252.76	253.25	0.000009	0.04	1.29	4.13	0.02
MV15739	11	Max WS	TR200_2H	0.05	252.65	253.26	252.76	253.26	0.000009	0.04	1.33	4.23	0.02
MV15739	11	Max WS	TR30_30min	0.05	252.65	253.20	252.76	253.20	0.000014	0.05	1.08	3.58	0.03
MV15739	11	Max WS	TR30_45min	0.05	252.65	253.20	252.76	253.20	0.000014	0.05	1.07	3.55	0.03
MV15739	11	Max WS	TR30_1H	0.05	252.65	253.19	252.76	253.19	0.000015	0.05	1.03	3.45	0.03
MV15739	11	Max WS	TR30_2H	0.05	252.65	253.18	252.76	253.18	0.000016	0.05	1.01	3.42	0.03
MV15739	10.99			Lat Struct									
MV15739	10.98			Lat Struct									
MV15739	10	Max WS	TR200_30min	-0.19	252.33	253.25	252.45	253.25	0.000008	-0.05	3.53	6.41	0.02
MV15739	10	Max WS	TR200_45min	-0.15	252.33	253.24	252.44	253.24	0.000005	-0.04	3.48	6.38	0.02
MV15739	10	Max WS	TR200_1H	0.59	252.33	253.24	252.56	253.24	0.000084	0.17	3.49	6.39	0.07
MV15739	10	Max WS	TR200_2H	0.35	252.33	253.26	252.50	253.26	0.000027	0.10	3.60	6.45	0.04
MV15739	10	Max WS	TR30_30min	-0.02	252.33	253.20	252.36	253.20	0.000000	0.00	3.23	6.22	0.00
MV15739	10	Max WS	TR30_45min	-0.01	252.33	253.20	252.35	253.20	0.000000	0.00	3.22	6.21	0.00
MV15739	10	Max WS	TR30_1H	0.01	252.33	253.19	252.35	253.19	0.000000	0.00	3.15	6.16	0.00
MV15739	10	Max WS	TR30_2H	0.21	252.33	253.18	252.46	253.18	0.000016	0.07	3.09	6.12	0.03
MV15739	9.11	Max WS	TR200_30min	-0.95	252.19	253.25	252.68	253.25	0.000248	-0.28	3.33	5.98	0.12
MV15739	9.11	Max WS	TR200_45min	-0.83	252.19	253.24	252.65	253.24	0.000201	-0.25	3.28	5.96	0.11
MV15739	9.11	Max WS	TR200_1H	0.10	252.19	253.24	252.36	253.24	0.000003	0.03	3.30	5.97	0.01
MV15739	9.11	Max WS	TR200_2H	-0.38	252.19	253.26	252.50	253.26	0.000038	-0.11	3.39	5.99	0.05
MV15739	9.11	Max WS	TR30_30min	-0.41	252.19	253.20	252.51	253.20	0.000061	-0.13	3.04	5.90	0.06
MV15739	9.11	Max WS	TR30_45min	-0.40	252.19	253.20	252.50	253.20	0.000058	-0.13	3.03	5.90	0.06
MV15739	9.11	Max WS	TR30_1H	-0.31	252.19	253.19	252.47	253.19	0.000037	-0.10	2.96	5.88	0.05
MV15739	9.11	Max WS	TR30_2H	-0.06	252.19	253.18	252.33	253.18	0.000002	-0.02	2.91	5.86	0.01
MV15739_v	9.08	Max WS	TR200_30min	0.69	252.18	253.25	252.60	253.25	0.000135	0.21	3.33	6.00	0.09
MV15739_v	9.08	Max WS	TR200_45min	0.63	252.18	253.24	252.58	253.24	0.000116	0.19	3.28	5.98	0.08
MV15739_v	9.08	Max WS	TR200_1H	0.99	252.18	253.24	252.69	253.25	0.000281	0.30	3.30	5.99	0.13
MV15739_v	9.08	Max WS	TR200_2H	1.15	252.18	253.26	252.72	253.26	0.000347	0.34	3.39	6.01	0.14
MV15739_v	9.08	Max WS	TR30_30min	0.76	252.18	253.20	252.61	253.20	0.000210	0.25	3.04	5.92	0.11
MV15739_v	9.08	Max WS	TR30_45min	0.67	252.18	253.20	252.59	253.20	0.000169	0.22	3.03	5.92	0.10
MV15739_v	9.08	Max WS	TR30_1H	0.64	252.18	253.19	252.58	253.19	0.000161	0.21	2.96	5.90	0.10
MV15739_v	9.08	Max WS	TR30_2H	0.75	252.18	253.18	252.61	253.18	0.000240	0.26	2.90	5.88	0.12
MV15739_v	9.079			Lat Struct									
MV15739_v	9.078			Lat Struct									
MV15739_v	9	Max WS	TR200_30min	0.54	252.17	253.25	252.54	253.25	0.000082	0.16	3.34	6.06	0.07
MV15739_v	9	Max WS	TR200_45min	0.49	252.17	253.24	252.53	253.24	0.000072	0.15	3.29	6.04	0.06
MV15739_v	9	Max WS	TR200_1H	0.84	252.17	253.24	252.63	253.25	0.000207	0.25	3.30	6.05	0.11
MV15739_v	9	Max WS	TR200_2H	0.96	252.17	253.26	252.66	253.26	0.000245	0.28	3.40	6.07	0.12
MV15739_v	9	Max WS	TR30_30min	0.66	252.17	253.20	252.58	253.20	0.000165	0.22	3.04	5.98	0.10
MV15739_v	9	Max WS	TR30_45min	0.59	252.17	253.20	252.56	253.20	0.000133	0.20	3.03	5.98	0.09
MV15739_v	9	Max WS	TR30_1H	0.57	252.17	253.19	252.55	253.19	0.000133	0.19	2.96	5.96	0.09
MV15739_v	9	Max WS	TR30_2H	0.70	252.17	253.18	252.59	253.18	0.000215	0.24	2.90	5.94	0.11
MV15739_v	8.9	Max WS	TR200_30min	0.53	251.93	253.24		253.25	0.000377	0.47	1.12	6.04	0.14
MV15739_v	8.9	Max WS	TR200_45min	0.48	251.93	253.24		253.24	0.000321	0.44	1.11	6.03	0.13
MV15739_v	8.9	Max WS	TR200_1H	0.84	251.93	253.22		253.25	0.001004	0.77	1.10	6.02	0.22
MV15739_v	8.9	Max WS	TR200_2H	0.95	251.93	253.24		253.27	0.001244	0.86	1.11	6.03	0.25
MV15739_v	8.9	Max WS	TR30_30min	0.67	251.93	253.19		253.21	0.000703	0.63	1.07	5.96	0.19
MV15739_v	8.9	Max WS	TR30_45min	0.59	251.93	253.19		253.20	0.000556	0.56	1.07	5.96	0.17
MV15739_v	8.9	Max WS	TR30_1H	0.57	251.93	253.18		253.19	0.000537	0.54	1.06	5.94	0.16
MV15739_v	8.9	Max WS	TR30_2H	0.71	251.93	253.16		253.18	0.000854	0.68	1.04	5.92	0.21
MV15739_v	8.5			Culvert									
MV15739_v	8	Max WS	TR200_30min	0.53	252.02	253.15	252.42	253.16	0.000524	0.54	0.98	4.74	0.17
MV15739_v	8	Max WS	TR200_45min	0.48	252.02	253.16	252.39	253.17	0.000420	0.49	0.99	4.87	0.15
MV15739_v	8	Max WS	TR200_1H	0.48	252.02	253.14	252.39	253.16	0.000442	0.49	0.97	4.65	0.15
MV15739_v	8	Max WS	TR200_2H	0.43	252.02	253.10	252.37	253.11	0.000416	0.46	0.93	3.90	0.15
MV15739_v	8	Max WS	TR30_30min	0.65	252.02	253.04	252.46	253.07	0.001136	0.74	0.88	2.95	0.24
MV15739_v	8	Max WS	TR30_45min	0.59	252.02	253.07	252.44	253.09	0.000865	0.66	0.90	3.42	0.21
MV15739_v	8	Max WS	TR30_1H	0.57	252.02	253.07	252.43	253.09	0.000817	0.64	0.90	3.37	0.21
MV15739_v	8	Max WS	TR30_2H	0.71	252.02	252.99	252.48	253.03	0.001620	0.85	0.83	2.77	0.29
MV15739_v	7.99			Lat Struct									
MV15739_v	7.98			Lat Struct									
MV15739_v	7.9	Max WS	TR200_30min	0.53	252.15	253.16	252.63	253.16	0.000416	0.32	1.71	4.86	0.15
MV15739_v	7.9	Max WS	TR200_45min	0.48	252.15	253.16	252.61	253.17	0.000328	0.29	1.74	4.98	0.13
MV15739_v	7.9	Max WS	TR200_1H	0.48	252.15	253.15	252.62	253.16	0.000360	0.30	1.68	4.76	0.14
MV15739_v	7.9	Max WS	TR200_2H	0.43	252.15	253.10	252.60	253.11	0.000394	0.30	1.47	3.98	0.14
MV15739_v	7.9	Max WS	TR30_30min	0.65	252.15	253.05	252.67	253.06	0.001251	0.51	1.28	3.13	0.25
MV15739_v	7.9	Max WS	TR30_45min	0.59	252.15	253.08	252.66	253.09	0.000869	0.43	1.38	3.58	0.21
MV15739_v	7.9	Max WS	TR30_1H	0.57	252.15	253.08	252.65	253.08	0.000831	0.42	1.36	3.52	0.20
MV15739_v	7.9	Max WS	TR30_2H	0.71	252.15	253.00	252.69	253.02	0.002002	0.62	1.15	2.81	0.31
MV15739_v	7	Max WS	TR200_30min	0.64	251.86	253.15	252.05	253.16	0.000013	0.09	6.97	8.21	0.03
MV15739_v	7	Max WS	TR200_45min	0.60	251.86	253.16	252.04	253.16	0.000011	0.09	7.02	8.22	0.03
MV15739_v	7	Max WS	TR200_1H	0.60	251.86	253.15	252.04	253.15	0.000012	0.09	6.91	8.20	0.03
MV15739_v	7	Max WS	TR200_2H	0.58	251.86	253.10	252.04	253.10	0.000013	0.09	6.53	8.09	0.03
MV15739_v	7	Max WS	TR30_30min	0.75	251.86	253.05	252.07	253.05	0.000028	0.12	6.10	7.98	0.04
MV15739_v	7	Max WS	TR30_45min	0.71	251.86	253.08	252.06	253.08	0.000022	0.11	6.32	8.04	0.04

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15739_v	7	Max WS	TR30_1H	0.69	251.86	253.07	252.06	253.07	0.000021	0.11	6.29	8.03	0.04
MV15739_v	7	Max WS	TR30_2H	0.78	251.86	253.00	252.07	253.00	0.000037	0.14	5.70	7.87	0.05
MV15739_v	6	Max WS	TR200_30min	0.80	251.52	253.15		253.16	0.000155	0.49	1.63	8.62	0.12
MV15739_v	6	Max WS	TR200_45min	0.77	251.52	253.15		253.17	0.000142	0.47	1.63	8.66	0.12
MV15739_v	6	Max WS	TR200_1H	0.77	251.52	253.14		253.15	0.000145	0.47	1.62	8.58	0.12
MV15739_v	6	Max WS	TR200_2H	0.77	251.52	253.09		253.10	0.000162	0.49	1.57	8.29	0.13
MV15739_v	6	Max WS	TR30_30min	0.88	251.52	253.04		253.05	0.000235	0.58	1.52	7.94	0.15
MV15739_v	6	Max WS	TR30_45min	0.86	251.52	253.06		253.08	0.000211	0.55	1.54	8.12	0.14
MV15739_v	6	Max WS	TR30_1H	0.85	251.52	253.06		253.08	0.000209	0.55	1.54	8.10	0.14
MV15739_v	6	Max WS	TR30_2H	0.88	251.52	252.98		253.00	0.000264	0.60	1.46	7.63	0.16
MV15739_v	5.5			Culvert									
MV15739_v	5	Max WS	TR200_30min	0.80	251.50	252.91	252.04	252.93	0.000538	0.63	1.27	6.96	0.18
MV15739_v	5	Max WS	TR200_45min	0.77	251.50	252.93	252.03	252.95	0.000468	0.59	1.30	7.14	0.17
MV15739_v	5	Max WS	TR200_1H	0.77	251.50	252.92	252.03	252.94	0.000486	0.60	1.28	7.04	0.17
MV15739_v	5	Max WS	TR200_2H	0.77	251.50	252.87	252.03	252.89	0.000561	0.63	1.23	6.68	0.18
MV15739_v	5	Max WS	TR30_30min	0.87	251.50	252.75	252.07	252.78	0.001013	0.78	1.11	5.80	0.24
MV15739_v	5	Max WS	TR30_45min	0.86	251.50	252.79	252.06	252.82	0.000866	0.74	1.15	6.10	0.22
MV15739_v	5	Max WS	TR30_1H	0.84	251.50	252.79	252.06	252.82	0.000835	0.73	1.16	6.12	0.22
MV15739_v	5	Max WS	TR30_2H	0.87	251.50	252.70	252.06	252.73	0.001171	0.82	1.06	5.44	0.25
MV15739_v	4.99			Lat Struct									
MV15739_v	4.98			Lat Struct									
MV15739_v	4.9	Max WS	TR200_30min	0.80	251.67	252.92	252.15	252.92	0.000120	0.20	3.92	7.05	0.09
MV15739_v	4.9	Max WS	TR200_45min	0.77	251.67	252.95	252.15	252.95	0.000100	0.19	4.09	7.22	0.08
MV15739_v	4.9	Max WS	TR200_1H	0.77	251.67	252.93	252.15	252.94	0.000106	0.19	4.00	7.13	0.08
MV15739_v	4.9	Max WS	TR200_2H	0.77	251.67	252.88	252.15	252.89	0.000135	0.21	3.66	6.77	0.09
MV15739_v	4.9	Max WS	TR30_30min	0.87	251.67	252.77	252.17	252.77	0.000306	0.30	2.93	5.95	0.14
MV15739_v	4.9	Max WS	TR30_45min	0.86	251.67	252.81	252.17	252.81	0.000242	0.27	3.16	6.22	0.12
MV15739_v	4.9	Max WS	TR30_1H	0.84	251.67	252.81	252.17	252.81	0.000232	0.27	3.18	6.24	0.12
MV15739_v	4.9	Max WS	TR30_2H	0.87	251.67	252.72	252.17	252.73	0.000392	0.33	2.64	5.59	0.15
MV15739_v	4	Max WS	TR200_30min	0.86	251.72	252.92	252.09	252.92	0.000115	0.19	4.50	8.68	0.08
MV15739_v	4	Max WS	TR200_45min	0.83	251.72	252.94	252.09	252.94	0.000098	0.18	4.71	9.04	0.08
MV15739_v	4	Max WS	TR200_1H	0.85	251.72	252.93	252.09	252.93	0.000107	0.18	4.59	8.85	0.08
MV15739_v	4	Max WS	TR200_2H	0.88	251.72	252.88	252.10	252.88	0.000144	0.21	4.16	8.09	0.09
MV15739_v	4	Max WS	TR30_30min	0.94	251.72	252.76	252.11	252.76	0.000257	0.28	3.29	6.31	0.13
MV15739_v	4	Max WS	TR30_45min	0.92	251.72	252.80	252.10	252.80	0.000216	0.26	3.56	6.92	0.12
MV15739_v	4	Max WS	TR30_1H	0.95	251.72	252.80	252.11	252.80	0.000229	0.27	3.57	6.94	0.12
MV15739_v	4	Max WS	TR30_2H	0.94	251.72	252.70	252.11	252.71	0.000309	0.32	2.97	5.52	0.14
MV15739_v	3	Max WS	TR200_30min	1.13	251.68	252.90	252.09	252.91	0.000189	0.28	4.06	6.26	0.11
MV15739_v	3	Max WS	TR200_45min	1.13	251.68	252.93	252.09	252.93	0.000171	0.27	4.22	6.40	0.11
MV15739_v	3	Max WS	TR200_1H	1.13	251.68	252.92	252.09	252.92	0.000180	0.27	4.13	6.32	0.11
MV15739_v	3	Max WS	TR200_2H	1.12	251.68	252.86	252.08	252.87	0.000220	0.29	3.80	6.02	0.12
MV15739_v	3	Max WS	TR30_30min	1.08	251.68	252.73	252.08	252.74	0.000356	0.35	3.07	5.31	0.15
MV15739_v	3	Max WS	TR30_45min	1.10	251.68	252.78	252.08	252.78	0.000302	0.33	3.31	5.55	0.14
MV15739_v	3	Max WS	TR30_1H	1.11	251.68	252.78	252.08	252.78	0.000308	0.33	3.32	5.56	0.14
MV15739_v	3	Max WS	TR30_2H	1.06	251.68	252.67	252.07	252.68	0.000441	0.38	2.77	4.98	0.16
MV15739_v	2.99			Lat Struct									
MV15739_v	2.98			Lat Struct									
MV15739_v	2.1	Max WS	TR200_30min	1.32	251.63	252.89	252.03	252.90	0.000240	0.31	4.30	6.68	0.12
MV15739_v	2.1	Max WS	TR200_45min	1.34	251.63	252.92	252.04	252.92	0.000223	0.30	4.47	6.87	0.12
MV15739_v	2.1	Max WS	TR200_1H	1.33	251.63	252.90	252.03	252.91	0.000232	0.30	4.38	6.77	0.12
MV15739_v	2.1	Max WS	TR200_2H	1.29	251.63	252.85	252.03	252.85	0.000270	0.32	4.01	6.36	0.13
MV15739_v	2.1	Max WS	TR30_30min	1.19	251.63	252.71	252.01	252.72	0.000385	0.37	3.22	5.39	0.15
MV15739_v	2.1	Max WS	TR30_45min	1.23	251.63	252.76	252.01	252.77	0.000341	0.35	3.48	5.73	0.14
MV15739_v	2.1	Max WS	TR30_1H	1.23	251.63	252.76	252.01	252.77	0.000341	0.35	3.48	5.73	0.14
MV15739_v	2.1	Max WS	TR30_2H	1.14	251.63	252.65	252.00	252.66	0.000449	0.39	2.90	4.94	0.16
MV15739_v	2	Max WS	TR200_30min	1.33	251.47	252.86		252.91	0.001058	1.02	1.30	6.45	0.29
MV15739_v	2	Max WS	TR200_45min	1.35	251.47	252.89		252.94	0.001016	1.01	1.33	6.64	0.28
MV15739_v	2	Max WS	TR200_1H	1.34	251.47	252.87		252.92	0.001039	1.02	1.31	6.53	0.28
MV15739_v	2	Max WS	TR200_2H	1.30	251.47	252.82		252.87	0.001130	1.03	1.26	6.13	0.29
MV15739_v	2	Max WS	TR30_30min	1.19	251.47	252.68		252.74	0.001406	1.06	1.12	5.13	0.32
MV15739_v	2	Max WS	TR30_45min	1.23	251.47	252.73		252.78	0.001301	1.05	1.17	5.48	0.31
MV15739_v	2	Max WS	TR30_1H	1.23	251.47	252.73		252.78	0.001301	1.05	1.17	5.48	0.31
MV15739_v	2	Max WS	TR30_2H	1.14	251.47	252.62		252.68	0.001564	1.08	1.06	4.67	0.34
MV15739_v	1.5			Culvert									
MV15739_v	1	Max WS	TR200_30min	1.33	251.36	252.03	252.02	252.31	0.015738	2.34	0.57	4.15	0.99
MV15739_v	1	Max WS	TR200_45min	1.35	251.36	252.03	252.03	252.31	0.015758	2.35	0.57	4.18	0.99
MV15739_v	1	Max WS	TR200_1H	1.34	251.36	252.03	252.02	252.31	0.015740	2.35	0.57	4.16	0.99
MV15739_v	1	Max WS	TR200_2H	1.30	251.36	252.02	252.01	252.29	0.015650	2.31	0.56	4.12	0.99
MV15739_v	1	Max WS	TR30_30min	1.19	251.36	251.99	251.98	252.25	0.015394	2.23	0.54	4.01	0.97
MV15739_v	1	Max WS	TR30_45min	1.23	251.36	252.00	251.99	252.26	0.015495	2.26	0.54	4.05	0.98
MV15739_v	1	Max WS	TR30_1H	1.23	251.36	252.00	251.99	252.26	0.015503	2.26	0.54	4.05	0.98
MV15739_v	1	Max WS	TR30_2H	1.14	251.36	251.98	251.97	252.22	0.015208	2.18	0.52	3.96	0.96
MV15739_v	0.9	Max WS	TR200_30min	1.33	251.35	252.02	251.88	252.06	0.005000	0.94	1.41	4.21	0.52
MV15739_v	0.9	Max WS	TR200_45min	1.35	251.35	252.02	251.88	252.07	0.005011	0.94	1.43	4.22	0.52
MV15739_v	0.9	Max WS	TR200_1H	1.34	251.35	252.02	251.88	252.06	0.004999	0.94	1.42	4.22	0.52
MV15739_v	0.9	Max WS	TR200_2H	1.30	251.35	252.01	251.87	252.06	0.005015	0.93	1.39	4.18	0.52
MV15739_v	0.9	Max WS	TR30_30min	1.19	251.35	251.99	251.86	252.03	0.005035	0.91	1.31	4.09	0.52

HEC-RAS Profile: Max WS (Continued)

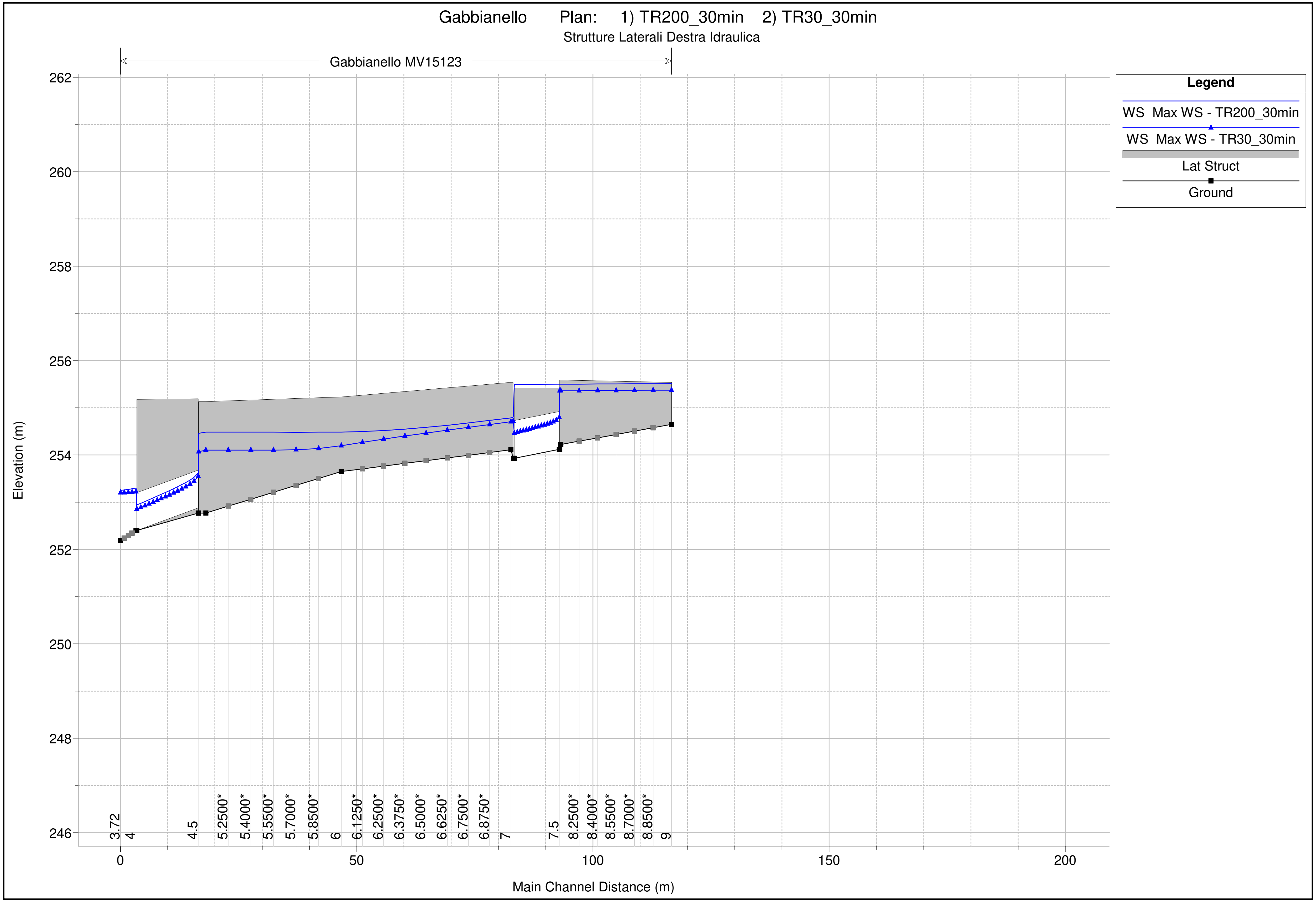
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15739_v	0.9	Max WS	TR30_45min	1.23	251.35	252.00	251.86	252.04	0.005029	0.92	1.34	4.13	0.52
MV15739_v	0.9	Max WS	TR30_1H	1.23	251.35	252.00	251.86	252.04	0.005032	0.92	1.34	4.13	0.52
MV15739_v	0.9	Max WS	TR30_2H	1.14	251.35	251.98	251.85	252.02	0.005026	0.90	1.27	4.05	0.51

HEC-RAS Profile: Max WS

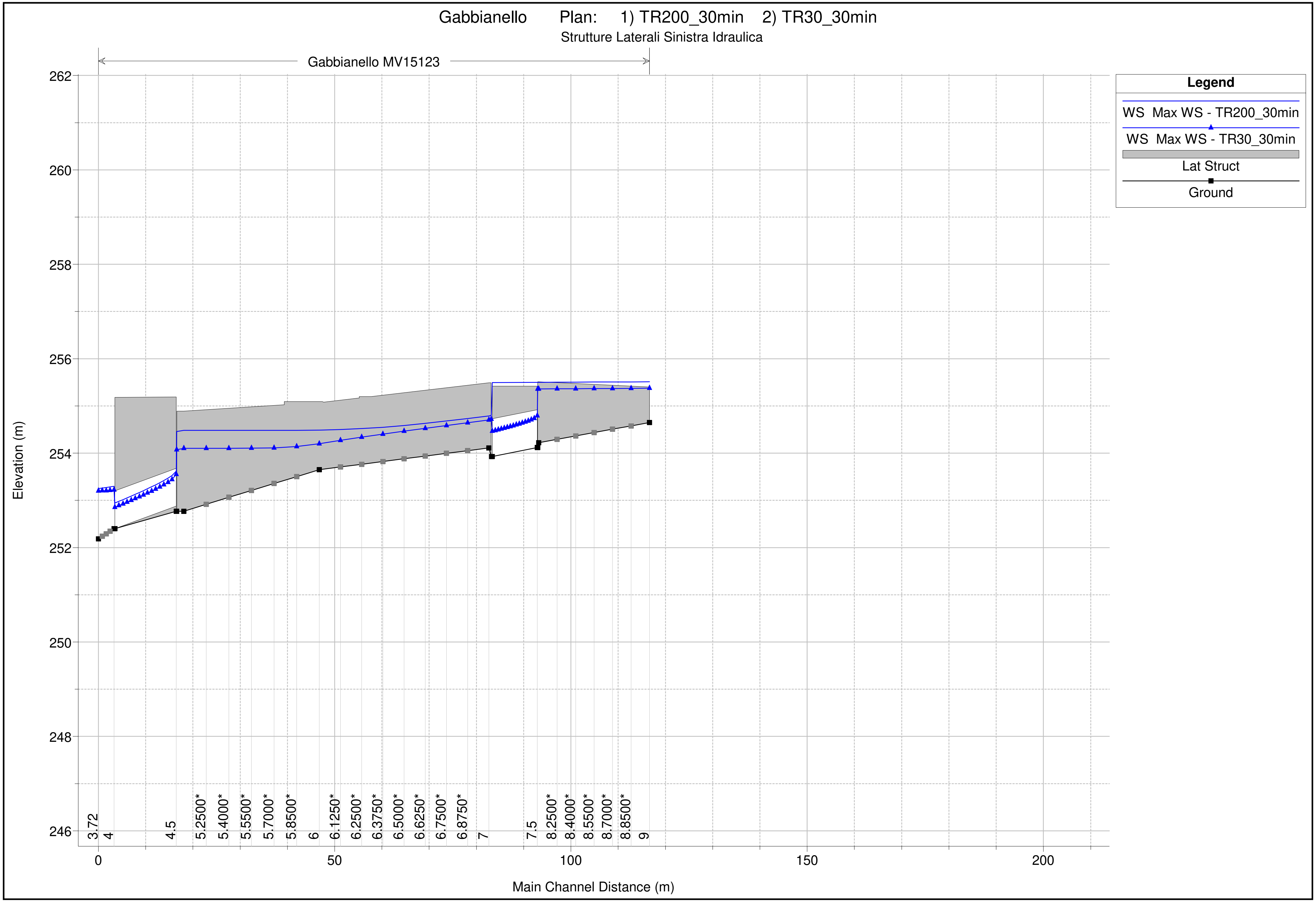
Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
MV15739	10.99	Max WS	TR200_30min	0.05	-0.58	-0.95	-0.58		121.94	0.11	0.06	255.08	253.25	253.25	253.25	253.25
MV15739	10.99	Max WS	TR200_45min	0.05	-0.83	-0.83	-0.83		136.94	0.13	0.07	255.08	253.24	253.24	253.24	253.24
MV15739	10.99	Max WS	TR200_1H	0.05	-0.95	0.10	-0.95		136.94	0.14	0.08	255.08	253.25	253.25	253.24	253.24
MV15739	10.99	Max WS	TR200_2H	0.05	-0.79	-0.38	-0.79		136.94	0.13	0.07	255.08	253.26	253.26	253.26	253.26
MV15739	10.99	Max WS	TR30_30min	0.05	-0.12	-0.41	-0.12		65.38	0.06	0.03	255.08	253.20	253.20	253.20	253.20
MV15739	10.99	Max WS	TR30_45min	0.05	-0.25	-0.40	-0.25		88.79	0.08	0.04	255.08	253.20	253.20	253.20	253.20
MV15739	10.99	Max WS	TR30_1H	0.05	-0.33	-0.31	-0.33		97.52	0.09	0.05	255.08	253.19	253.19	253.19	253.19
MV15739	10.99	Max WS	TR30_2H	0.05	-0.34	-0.06	-0.34		98.76	0.09	0.05	255.08	253.18	253.18	253.18	253.18
MV15739	10.98	Max WS	TR200_30min	0.05	1.11	-0.95	1.11		119.90	0.19	0.10	253.06	253.25	253.25	253.25	253.25
MV15739	10.98	Max WS	TR200_45min	0.05	0.87	-0.83	0.87		116.25	0.18	0.09	253.06	253.24	253.24	253.24	253.24
MV15739	10.98	Max WS	TR200_1H	0.05	0.91	0.10	0.91		121.67	0.18	0.09	253.06	253.25	253.25	253.24	253.24
MV15739	10.98	Max WS	TR200_2H	0.05	1.15	-0.38	1.15		126.54	0.20	0.10	253.06	253.26	253.26	253.26	253.26
MV15739	10.98	Max WS	TR30_30min	0.05	0.54	-0.41	0.54		91.02	0.14	0.07	253.06	253.20	253.20	253.20	253.20
MV15739	10.98	Max WS	TR30_45min	0.05	0.47	-0.40	0.47		89.83	0.14	0.07	253.06	253.20	253.20	253.20	253.20
MV15739	10.98	Max WS	TR30_1H	0.05	0.31	-0.31	0.31		84.91	0.13	0.06	253.06	253.19	253.19	253.19	253.19
MV15739	10.98	Max WS	TR30_2H	0.05	0.21	-0.06	0.21		71.19	0.13	0.06	253.06	253.18	253.18	253.18	253.18
MV15739_v	9.079	Max WS	TR200_30min	0.69	0.00	0.53	0.00					255.18	253.25	253.25	253.25	253.24
MV15739_v	9.079	Max WS	TR200_45min	0.63	0.00	0.48	0.00					255.18	253.24	253.24	253.24	253.24
MV15739_v	9.079	Max WS	TR200_1H	0.99	0.00	0.84	0.00					255.18	253.25	253.24	253.25	253.22
MV15739_v	9.079	Max WS	TR200_2H	1.15	0.00	0.95	0.00					255.18	253.26	253.26	253.27	253.24
MV15739_v	9.079	Max WS	TR30_30min	0.76	0.00	0.67	0.00					255.18	253.20	253.20	253.21	253.19
MV15739_v	9.079	Max WS	TR30_45min	0.67	0.00	0.59	0.00					255.18	253.20	253.20	253.20	253.19
MV15739_v	9.079	Max WS	TR30_1H	0.64	0.00	0.57	0.00					255.18	253.19	253.19	253.19	253.18
MV15739_v	9.079	Max WS	TR30_2H	0.75	0.00	0.71	0.00					255.18	253.18	253.18	253.18	253.16
MV15739_v	9.078	Max WS	TR200_30min	0.69	0.21	0.53	0.21		6.70	0.25	0.24	253.00	253.25	253.25	253.25	253.24
MV15739_v	9.078	Max WS	TR200_45min	0.63	0.15	0.48	0.15		6.70	0.24	0.24	253.00	253.24	253.24	253.24	253.24
MV15739_v	9.078	Max WS	TR200_1H	0.99	0.15	0.84	0.15		6.70	0.24	0.24	253.00	253.25	253.24	253.25	253.22
MV15739_v	9.078	Max WS	TR200_2H	1.15	0.20	0.95	0.20		6.70	0.26	0.25	253.00	253.26	253.26	253.27	253.24
MV15739_v	9.078	Max WS	TR30_30min	0.76	0.14	0.67	0.14		6.70	0.20	0.19	253.00	253.20	253.20	253.21	253.19
MV15739_v	9.078	Max WS	TR30_45min	0.67	0.07	0.59	0.07		6.70	0.20	0.19	253.00	253.20	253.20	253.20	253.19
MV15739_v	9.078	Max WS	TR30_1H	0.64	0.12	0.57	0.12		6.70	0.19	0.18	253.00	253.19	253.19	253.19	253.18
MV15739_v	9.078	Max WS	TR30_2H	0.75	0.08	0.71	0.08		6.70	0.18	0.17	253.00	253.18	253.18	253.18	253.16
MV15739_v	7.99	Max WS	TR200_30min	0.53	0.00	0.80	0.00					254.94	253.16	253.15	253.16	253.15
MV15739_v	7.99	Max WS	TR200_45min	0.48	0.00	0.77	0.00					254.94	253.17	253.16	253.17	253.15
MV15739_v	7.99	Max WS	TR200_1H	0.48	0.00	0.77	0.00					254.94	253.16	253.14	253.15	253.14
MV15739_v	7.99	Max WS	TR200_2H	0.43	0.00	0.77	0.00					254.94	253.11	253.10	253.10	253.09
MV15739_v	7.99	Max WS	TR30_30min	0.65	0.00	0.88	0.00					254.94	253.07	253.04	253.05	253.04
MV15739_v	7.99	Max WS	TR30_45min	0.59	0.00	0.86	0.00					254.94	253.09	253.07	253.08	253.06
MV15739_v	7.99	Max WS	TR30_1H	0.57	0.00	0.85	0.00					254.94	253.09	253.07	253.08	253.06
MV15739_v	7.99	Max WS	TR30_2H	0.71	0.00	0.88	0.00					254.94	253.03	252.99	253.00	252.98
MV15739_v	7.98	Max WS	TR200_30min	0.53	0.30	0.80	0.30		34.07	0.18	0.09	252.97	253.16	253.15	253.16	253.15
MV15739_v	7.98	Max WS	TR200_45min	0.48	0.33	0.77	0.33		35.38	0.19	0.10	252.97	253.17	253.16	253.17	253.15
MV15739_v	7.98	Max WS	TR200_1H	0.48	0.28	0.77	0.28		32.90	0.18	0.09	252.97	253.16	253.14	253.15	253.14
MV15739_v	7.98	Max WS	TR200_2H	0.43	0.13	0.77	0.13		24.18	0.13	0.07	252.97	253.11	253.10	253.10	253.09
MV15739_v	7.98	Max WS	TR30_30min	0.65	0.03	0.88	0.03		14.36	0.08	0.04	252.97	253.07	253.04	253.05	253.04
MV15739_v	7.98	Max WS	TR30_45min	0.59	0.08	0.86	0.08		19.47	0.11	0.05	252.97	253.09	253.07	253.08	253.06
MV15739_v	7.98	Max WS	TR30_1H	0.57	0.07	0.85	0.07		18.80	0.10	0.05	252.97	253.09	253.07	253.08	253.06
MV15739_v	7.98	Max WS	TR30_2H	0.71	0.00	0.88	0.00		5.07	0.03	0.01	252.97	253.03	252.99	253.00	252.98
MV15739_v	4.99	Max WS	TR200_30min	0.80	0.00	1.13	0.00					254.85	252.93	252.91	252.91	252.90
MV15739_v	4.99	Max WS	TR200_45min	0.77	0.00	1.13	0.00					254.85	252.95	252.94	252.93	252.93
MV15739_v	4.99	Max WS	TR200_1H	0.77	0.00	1.13	0.00					254.85	252.94	252.92	252.92	252.92
MV15739_v	4.99	Max WS	TR200_2H	0.77	0.00	1.12	0.00					254.85	252.89	252.87	252.87	252.86
MV15739_v	4.99	Max WS	TR30_30min	0.87	0.00	1.08	0.00					254.85	252.78	252.75	252.74	252.73
MV15739_v	4.99	Max WS	TR30_45min	0.86	0.00	1.10	0.00					254.85	252.82	252.79	252.78	252.78
MV15739_v	4.99	Max WS	TR30_1H	0.84	0.00	1.11	0.00					254.85	252.82	252.79	252.78	252.78
MV15739_v	4.99	Max WS	TR30_2H	0.87	0.00	1.06	0.00					254.85	252.73	252.70	252.68	252.67
MV15739_v	4.98	Max WS	TR200_30min	0.80	0.12	1.13	0.12		3.95	0.40	0.22	252.52	252.93	252.91	252.91	252.90
MV15739_v	4.98	Max WS	TR200_45min	0.77	0.13	1.13	0.13		4.15	0.42	0.23	252.52	252.95	252.94	252.93	252.93
MV15739_v	4.98	Max WS	TR200_1H	0.77	0.12	1.13	0.12		4.04	0.41	0.22	252.52	252.94	252.92	252.92	252.92
MV15739_v	4.98	Max WS	TR200_2H	0.77	0.10	1.12	0.10		3.62	0.36	0.19	252.52	252.89	252.87	252.87	252.86
MV15739_v	4.98	Max WS	TR30_30min	0.87	0.04	1.08	0.04		2.54	0.24	0.14	252.52	252.78	252.75	252.74	252.73
MV15739_v	4.98	Max WS	TR30_45min	0.86	0.06	1.10	0.06		2.90	0.28	0.16	252.52	252.82	252.79	252.78	252.78
MV15739_v	4.98	Max WS	TR30_1H	0.84	0.05	1.11	0.05		2.92	0.29	0.16	252.52	252.82	252.79	252.78	252.78
MV15739_v	4.98	Max WS	TR30_2H	0.87	0.02	1.06	0.02		2.07	0.19	0.11	252.52	252.73	252.70	252.68	252.67
MV15739_v	2.99	Max WS	TR200_30min	1.13	0.00	1.33	0.00					254.59	252.91	252.90	252.91	252.86
MV15739_v	2.99	Max WS	TR200_45min	1.13	0.00	1.35	0.00					254.59	252.93	252.93	252.94	252.89
MV15739_v	2.99	Max WS	TR200_1H	1.13	0.00	1.34	0.00					254.59	252.92	252.92	252.92	252.87
MV15739_v	2.99	Max WS	TR200_2H	1.12	0.00	1.30	0.00					254.59	252.87	252.86	252.87	252.82
MV15739_v	2.99	Max WS	TR30_30min	1.08	0.00	1.19	0.00					254.59	252.74	252.73	252.74	252.68
MV15739_v	2.99	Max WS	TR30_45min	1.10	0.00	1.23	0.00					254.59	252.78	252.78	252.78	252.73
MV15739_v	2.99	Max WS	TR30_1H	1.11	0.00	1.23	0.00					254.59	252.78	252.78	252.78	252.73
MV15739_v	2.99	Max WS	TR30_2H	1.06	0.00	1.14	0.00					254.59	252.68	252.67	252.67	252.62
MV15739_v	2.98	Max WS	TR200_30min	1.13	0.00	1.33	0.00					253.02	252.91	252.90	252.91	252.86
MV15739_v	2.98	Max WS	TR200_45min	1.13	0.00	1.35	0.00					253.02	252.93	252.93	252.94	252.89
MV15739_v	2.98	Max WS	TR200_1H	1.13	0.00	1.34	0.00					253.02	252.92	252.92	252.92	252.87
MV15739_v	2.98	Max WS	TR200_2H	1.12	0.00	1.30	0.00					253.02	252.87	252.86	252.87	252.82
MV15739_v	2.98	Max WS	TR30_30min	1.08	0.00	1.19	0.00					253.02	252.74	252.73	252.74	252.68
MV15739_v	2.98	Max WS	TR30_45min	1.10	0.00	1.23	0.00					253.02	252.78	252.78	252.78	252.73
MV15739_v	2.98	Max WS	TR30_1H	1.11	0.00	1.23	0.00					253.02	252.78	252.78	252.78	252.73
MV15739_v	2.98	Max WS	TR30_2H	1.06	0.00	1.14	0.00					253.02	252.68	252.67	252.67	252.62

FOSSO

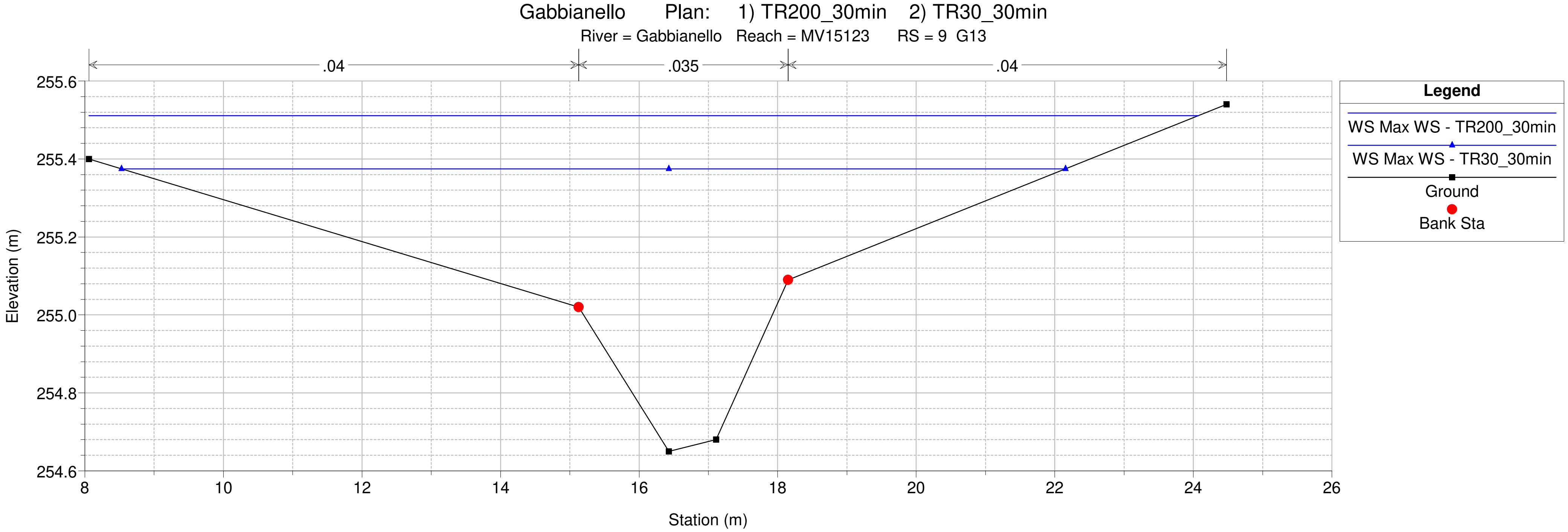
MV15123



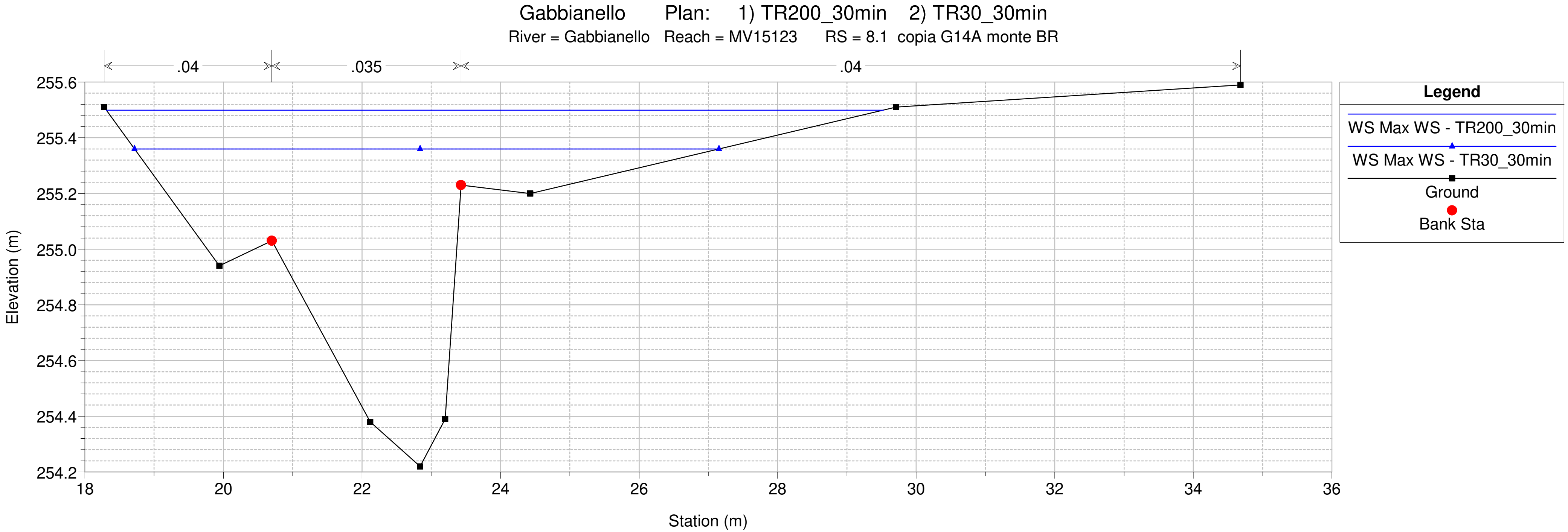
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



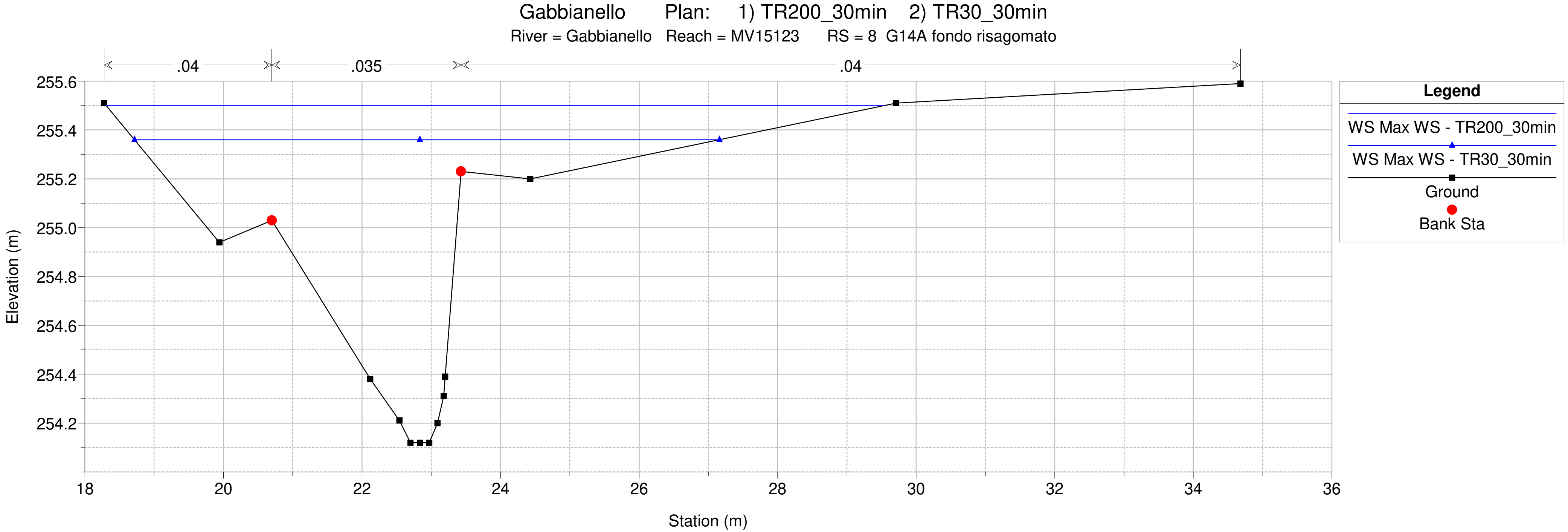
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



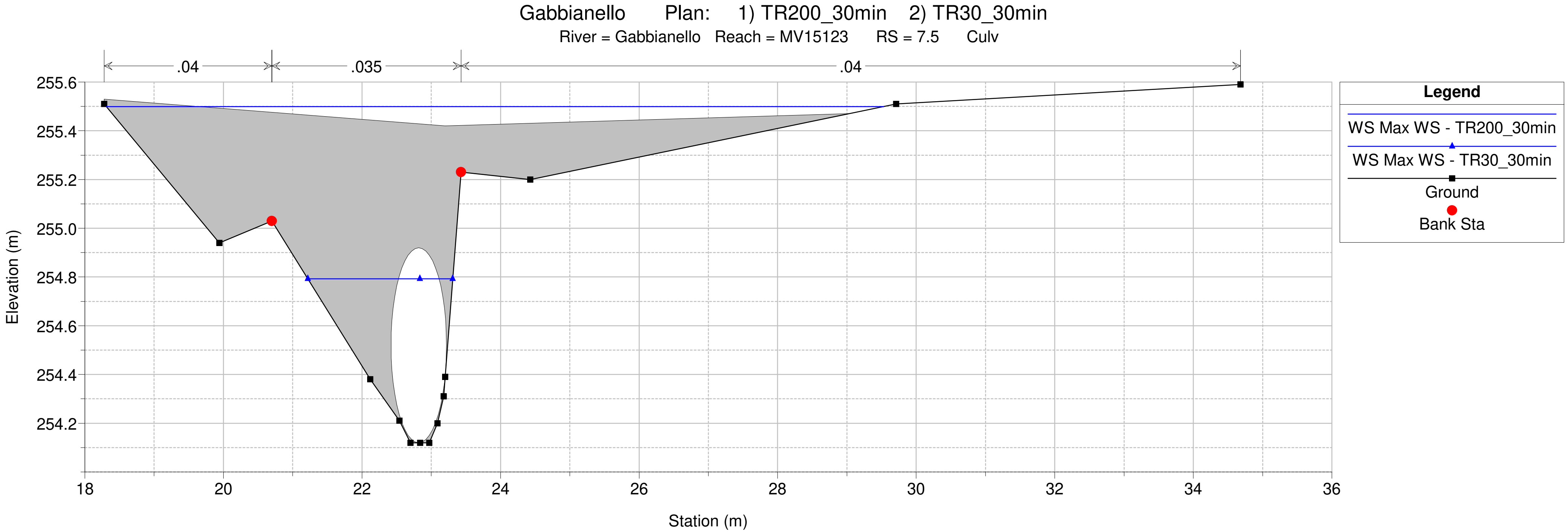
Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 9 G13
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)



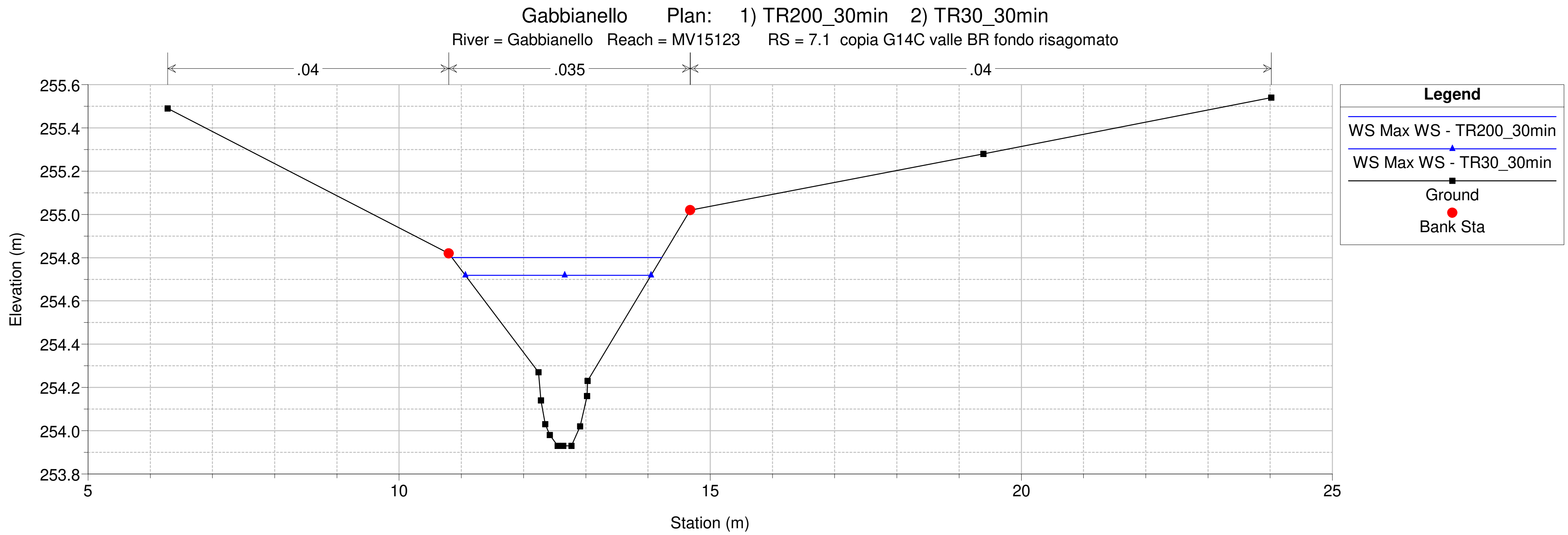
Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 8.1 copia G14A monte BR
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
Station (m)



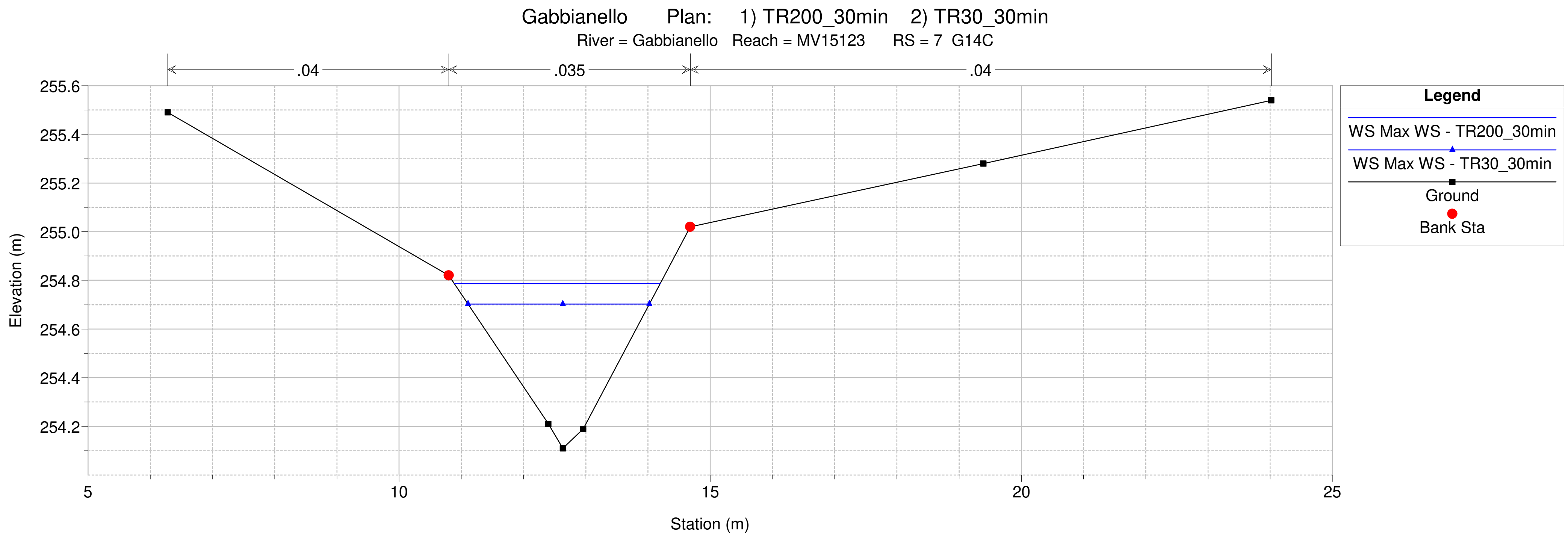
Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 8 G14A fondo risagomato
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



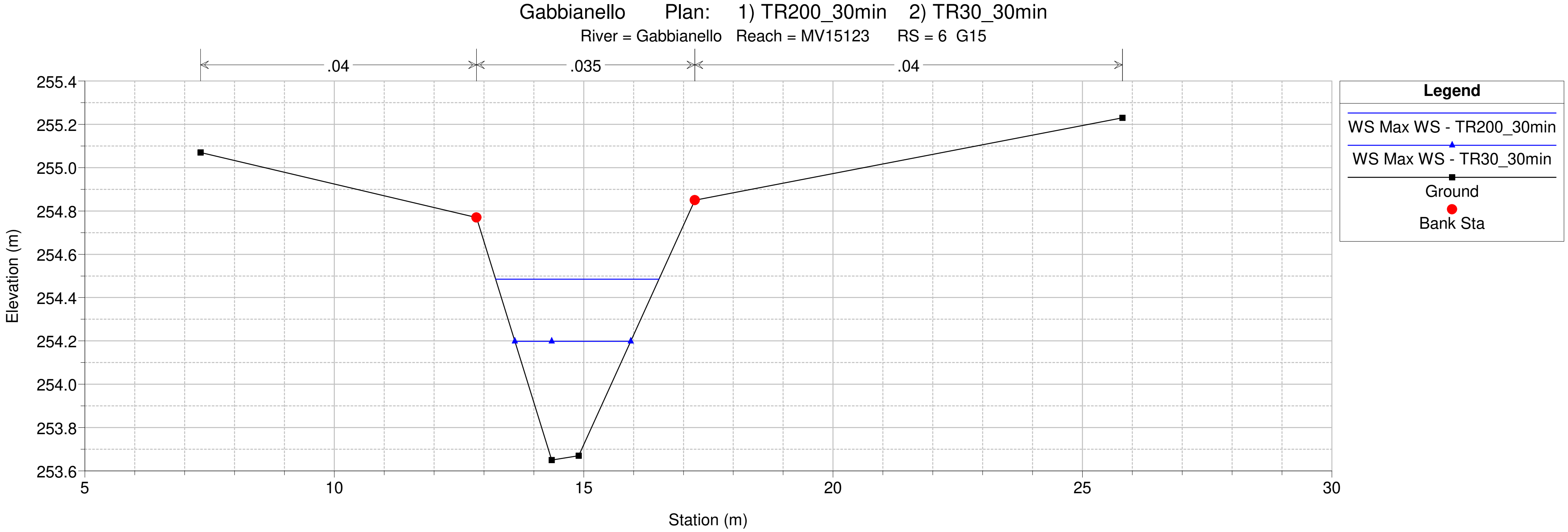
Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 7.5 Culv
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



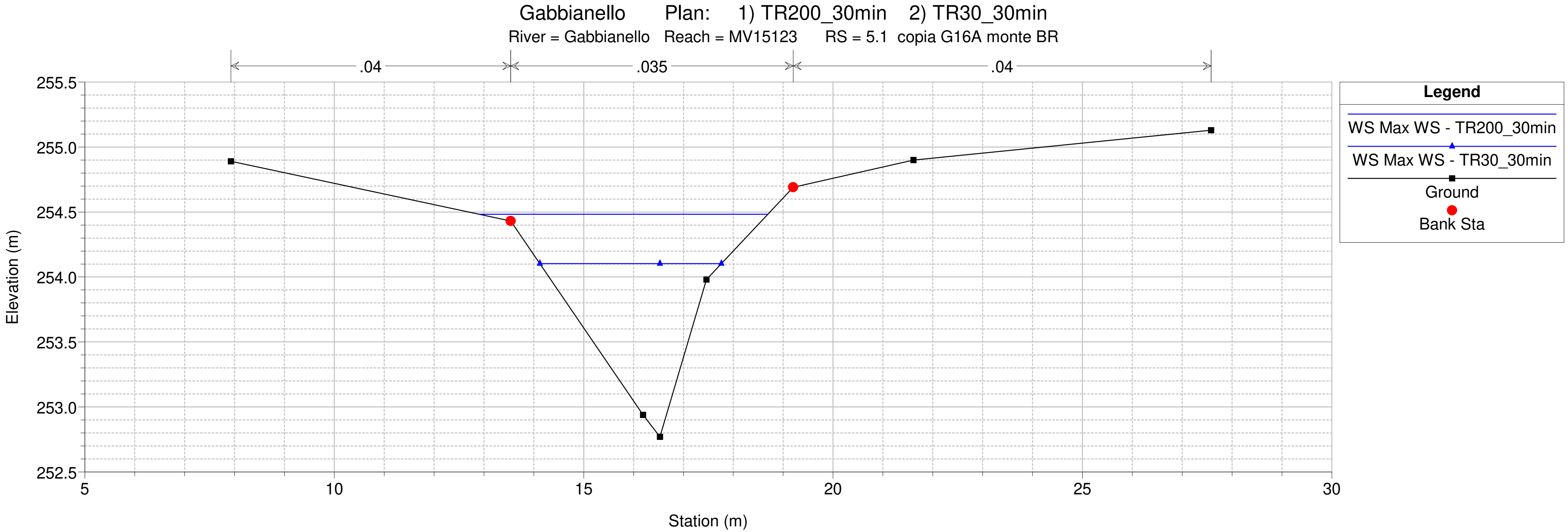
Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 7.1 copia G14C valle BR fondo risagomato
.04
.035
.04
Elevation (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
5
10
15
20
25
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



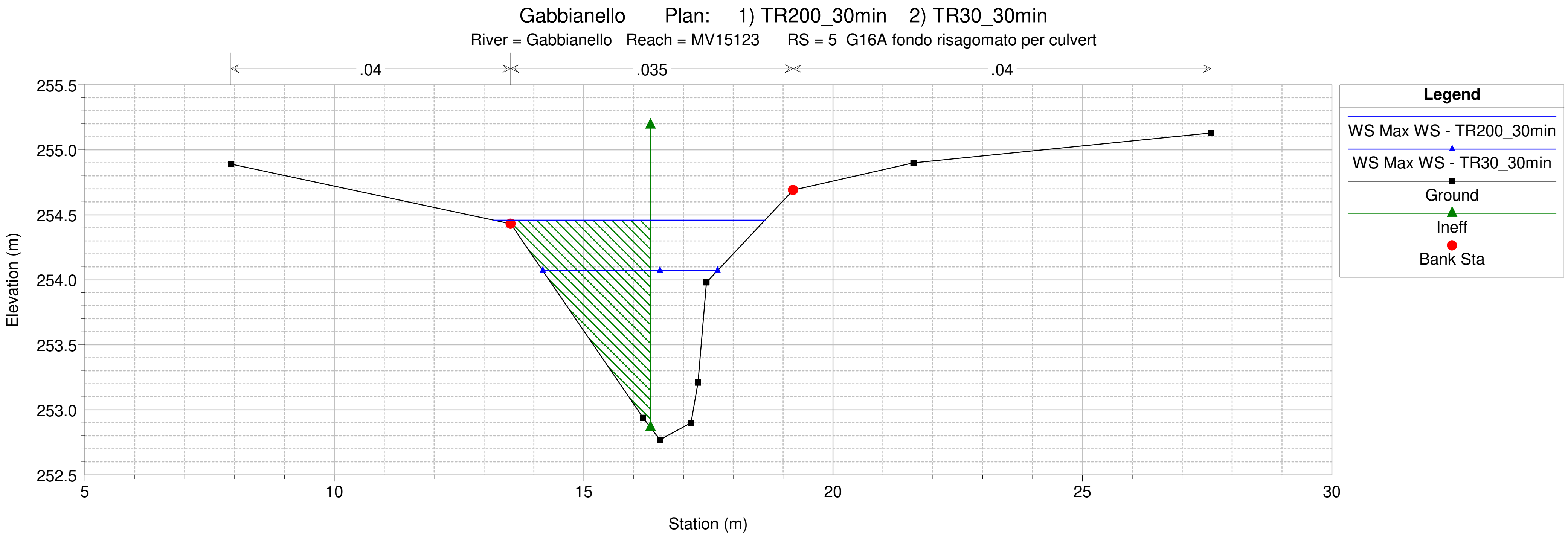
Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 7 G14C
.04
.035
.04
Elevation (m)
255.6
255.4
255.2
255.0
254.8
254.6
254.4
254.2
5
10
15
20
25
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

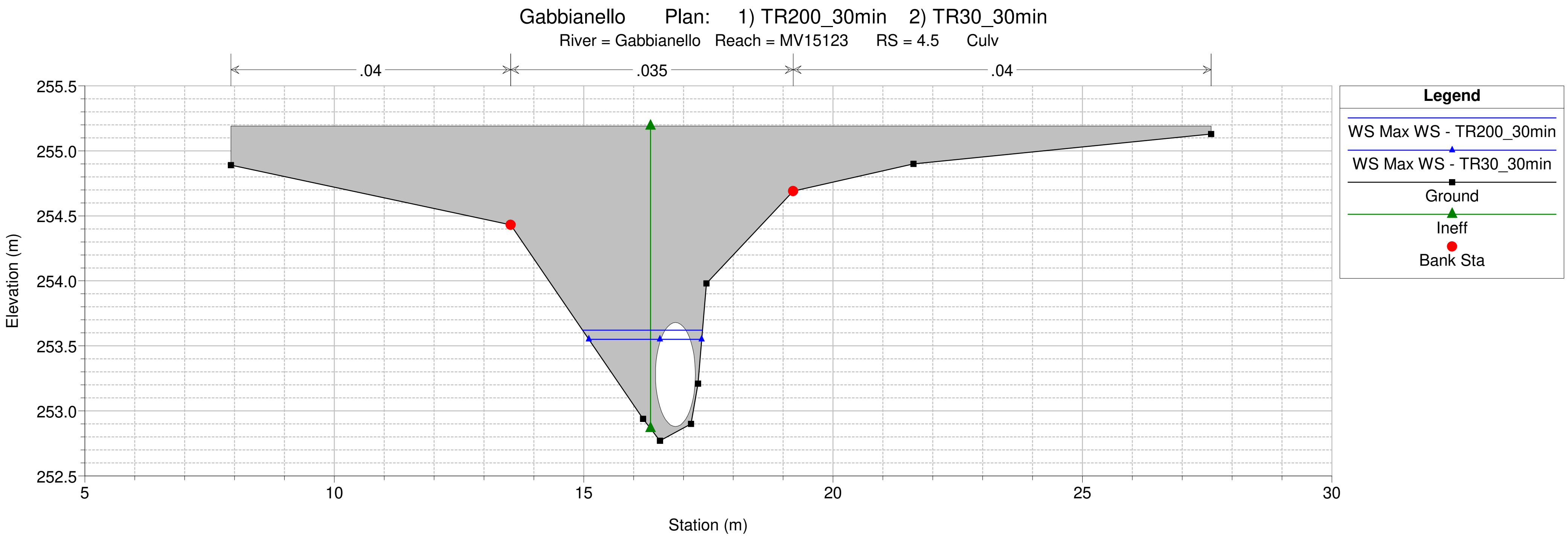


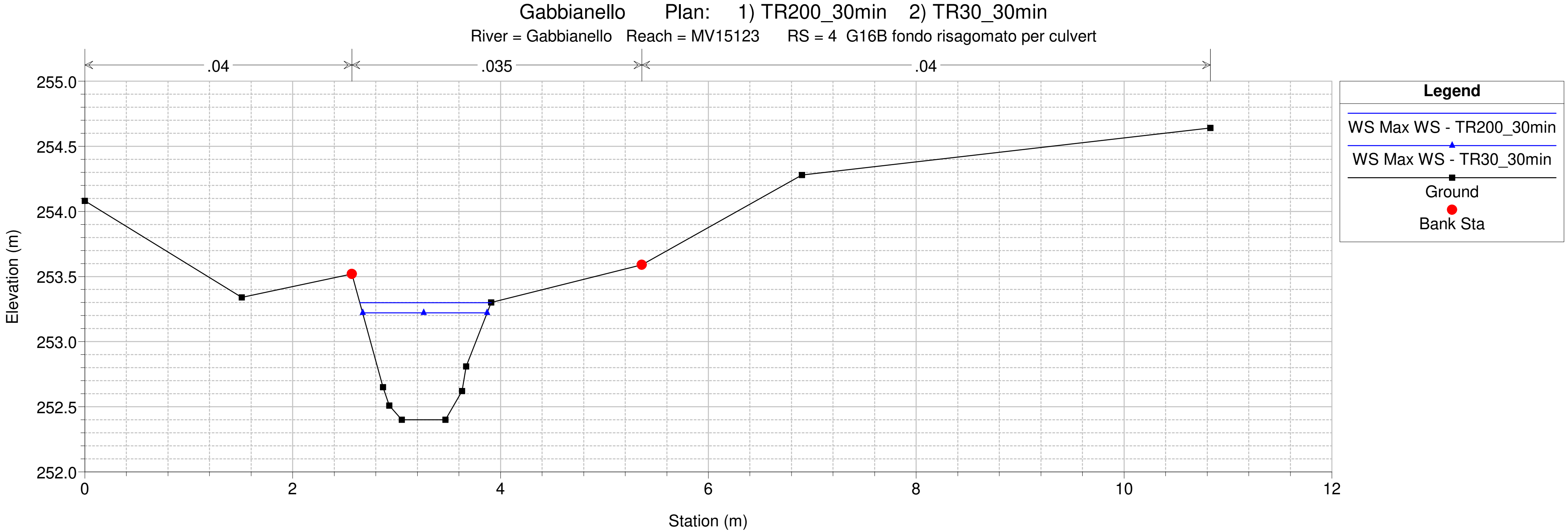
Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 6 G15
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
255.4
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
253.6
5
10
15
20
25
30
Station (m)

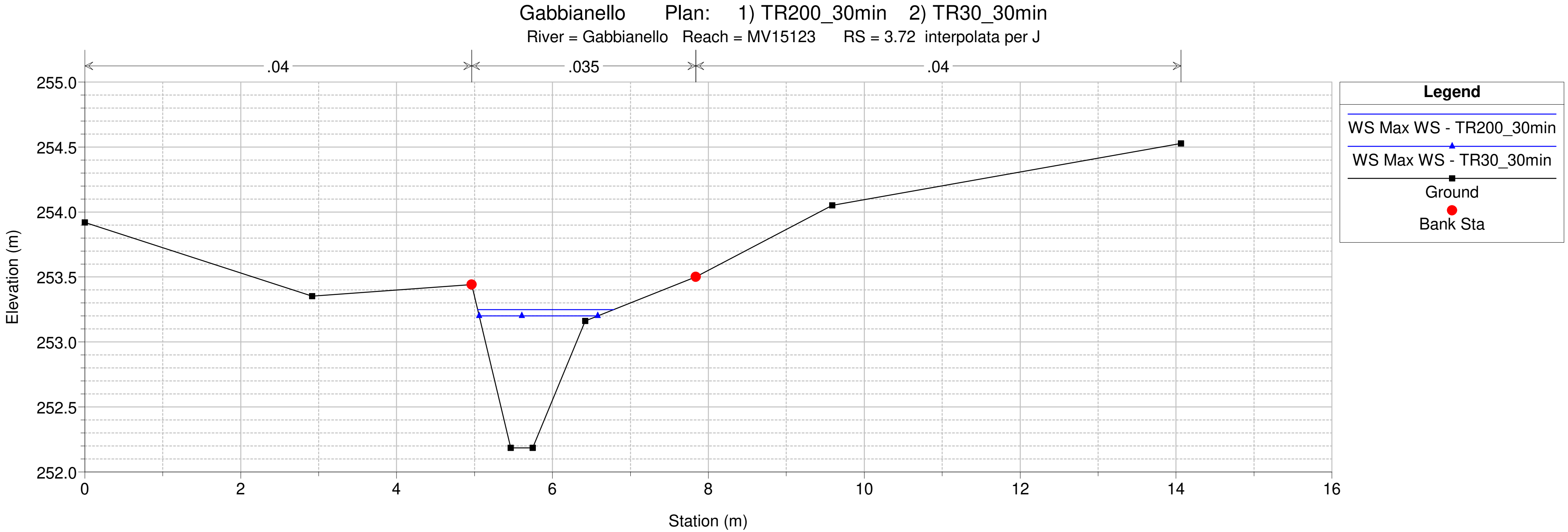


Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 5.1 copia G16A monte BR
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta
Elevation (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
5
10
15
20
25
30
Station (m)


Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 5 G16A fondo risagomato per culvert
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Ineff
Bank Sta
Elevation (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
5
10
15
20
25
30
Station (m)


Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 4.5 Culv
.04
.035
.04
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Ineff
Bank Sta
Elevation (m)
255.5
255.0
254.5
254.0
253.5
253.0
252.5
5
10
15
20
25
30
Station (m)


Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 4 G16B fondo risagomato per culvert
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123 RS = 3.72 interpolata per J
.04
.035
.04
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

HEC-RAS River: Gabbianello Reach: MV15123 Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15123	9	Max WS	TR200_30min	1.80	254.65	255.51	255.17	255.52	0.000496	0.49	5.48	16.01	0.19
MV15123	9	Max WS	TR200_45min	1.53	254.65	255.48	255.13	255.49	0.000448	0.45	5.03	15.61	0.18
MV15123	9	Max WS	TR200_1H	1.30	254.65	255.42	255.09	255.43	0.000552	0.47	4.08	14.74	0.19
MV15123	9	Max WS	TR200_2H	0.88	254.65	255.13	255.01	255.17	0.004791	0.89	1.08	5.65	0.51
MV15123	9	Max WS	TR30_30min	1.24	254.65	255.37	255.08	255.39	0.000757	0.52	3.44	13.63	0.22
MV15123	9	Max WS	TR30_45min	1.09	254.65	255.26	255.05	255.28	0.001701	0.67	2.12	9.98	0.32
MV15123	9	Max WS	TR30_1H	0.96	254.65	255.17	255.03	255.20	0.003483	0.83	1.34	7.01	0.44
MV15123	9	Max WS	TR30_2H	0.64	254.65	255.02	254.96	255.07	0.010240	1.03	0.62	2.83	0.70
MV15123	8.99			Lat Struct									
MV15123	8.98			Lat Struct									
MV15123	8.1	Max WS	TR200_30min	1.70	254.22	255.50	254.85	255.51	0.000478	0.50	4.47	11.22	0.17
MV15123	8.1	Max WS	TR200_45min	1.48	254.22	255.47	254.81	255.48	0.000421	0.46	4.17	10.66	0.15
MV15123	8.1	Max WS	TR200_1H	1.30	254.22	255.41	254.78	255.42	0.000458	0.46	3.53	9.39	0.16
MV15123	8.1	Max WS	TR200_2H	0.88	254.22	255.08	254.68	255.10	0.001430	0.61	1.53	3.85	0.27
MV15123	8.1	Max WS	TR30_30min	1.24	254.22	255.36	254.77	255.37	0.000548	0.48	3.10	8.44	0.17
MV15123	8.1	Max WS	TR30_45min	1.09	254.22	255.24	254.73	255.25	0.000849	0.54	2.23	6.03	0.21
MV15123	8.1	Max WS	TR30_1H	0.96	254.22	255.13	254.70	255.15	0.001187	0.58	1.75	4.02	0.24
MV15123	8.1	Max WS	TR30_2H	0.64	254.22	254.89	254.62	254.91	0.002409	0.67	0.95	2.33	0.34
MV15123	8	Max WS	TR200_30min	1.70	254.12	255.50		255.51	0.000453	0.49	4.57	11.22	0.16
MV15123	8	Max WS	TR200_45min	1.48	254.12	255.47		255.48	0.000398	0.45	4.27	10.67	0.15
MV15123	8	Max WS	TR200_1H	1.30	254.12	255.41		255.42	0.000428	0.45	3.63	9.40	0.15
MV15123	8	Max WS	TR200_2H	0.88	254.12	255.08		255.10	0.001213	0.57	1.63	3.85	0.24
MV15123	8	Max WS	TR30_30min	1.24	254.12	255.36		255.37	0.000507	0.47	3.20	8.45	0.16
MV15123	8	Max WS	TR30_45min	1.09	254.12	255.24		255.25	0.000761	0.52	2.33	6.05	0.19
MV15123	8	Max WS	TR30_1H	0.96	254.12	255.13		255.15	0.001029	0.55	1.85	4.03	0.22
MV15123	8	Max WS	TR30_2H	0.64	254.12	254.89		254.91	0.001839	0.61	1.06	2.34	0.29
MV15123	7.5			Culvert									
MV15123	7.1	Max WS	TR200_30min	1.70	253.93	254.80	254.67	254.88	0.008273	1.27	1.34	3.37	0.64
MV15123	7.1	Max WS	TR200_45min	1.48	253.93	254.76	254.63	254.84	0.008132	1.22	1.22	3.19	0.63
MV15123	7.1	Max WS	TR200_1H	1.30	253.93	254.73	254.59	254.80	0.007900	1.17	1.11	3.04	0.62
MV15123	7.1	Max WS	TR200_2H	0.88	253.93	254.65	254.50	254.70	0.006806	1.01	0.88	2.65	0.56
MV15123	7.1	Max WS	TR30_30min	1.24	253.93	254.72	254.58	254.79	0.007817	1.15	1.08	2.98	0.61
MV15123	7.1	Max WS	TR30_45min	1.09	253.93	254.69	254.55	254.75	0.007519	1.10	0.99	2.85	0.59
MV15123	7.1	Max WS	TR30_1H	0.96	253.93	254.66	254.52	254.72	0.007221	1.05	0.91	2.71	0.58
MV15123	7.1	Max WS	TR30_2H	0.64	253.93	254.58	254.43	254.62	0.006198	0.90	0.71	2.33	0.52
MV15123	7.09			Lat Struct									
MV15123	7.08			Lat Struct									
MV15123	7	Max WS	TR200_30min	1.70	254.11	254.79	254.72	254.90	0.011837	1.47	1.16	3.31	0.79
MV15123	7	Max WS	TR200_45min	1.48	254.11	254.75	254.69	254.85	0.012224	1.43	1.03	3.13	0.80
MV15123	7	Max WS	TR200_1H	1.30	254.11	254.71	254.66	254.81	0.012406	1.39	0.93	2.97	0.79
MV15123	7	Max WS	TR200_2H	0.88	254.11	254.63	254.58	254.71	0.012246	1.26	0.70	2.58	0.77
MV15123	7	Max WS	TR30_30min	1.24	254.11	254.70	254.65	254.80	0.012488	1.38	0.90	2.91	0.80
MV15123	7	Max WS	TR30_45min	1.09	254.11	254.67	254.62	254.77	0.012571	1.34	0.81	2.78	0.79
MV15123	7	Max WS	TR30_1H	0.96	254.11	254.64	254.59	254.73	0.012695	1.30	0.73	2.64	0.79
MV15123	7	Max WS	TR30_2H	0.64	254.11	254.56	254.52	254.64	0.013007	1.19	0.54	2.26	0.78
MV15123	6	Max WS	TR200_30min	1.64	253.65	254.49	254.24	254.54	0.004265	1.05	1.57	3.28	0.48
MV15123	6	Max WS	TR200_45min	1.47	253.65	254.33	254.21	254.42	0.008748	1.33	1.10	2.76	0.67
MV15123	6	Max WS	TR200_1H	1.29	253.65	254.23	254.18	254.35	0.014399	1.55	0.83	2.41	0.84
MV15123	6	Max WS	TR200_2H	0.87	253.65	254.40	254.09	254.42	0.002005	0.67	1.30	2.99	0.33
MV15123	6	Max WS	TR30_30min	1.23	253.65	254.20	254.17	254.33	0.016364	1.61	0.77	2.32	0.89
MV15123	6	Max WS	TR30_45min	1.09	253.65	254.14	254.14	254.29	0.020036	1.68	0.65	2.14	0.98
MV15123	6	Max WS	TR30_1H	0.96	253.65	254.10	254.11	254.25	0.022521	1.70	0.56	2.01	1.02
MV15123	6	Max WS	TR30_2H	0.63	253.65	254.02	254.02	254.14	0.023348	1.54	0.41	1.73	1.02
MV15123	5.1	Max WS	TR200_30min	1.64	252.77	254.48	253.57	254.49	0.000374	0.41	4.03	5.80	0.15
MV15123	5.1	Max WS	TR200_45min	1.46	252.77	254.31	253.53	254.32	0.000564	0.46	3.15	4.50	0.18
MV15123	5.1	Max WS	TR200_1H	1.29	252.77	254.15	253.49	254.17	0.000775	0.51	2.52	3.86	0.20
MV15123	5.1	Max WS	TR200_2H	1.47	252.77	254.38	253.53	254.39	0.000443	0.42	3.48	4.80	0.16
MV15123	5.1	Max WS	TR30_30min	1.23	252.77	254.10	253.47	254.12	0.000858	0.53	2.32	3.64	0.21
MV15123	5.1	Max WS	TR30_45min	1.09	252.77	253.99	253.44	254.01	0.001042	0.56	1.94	3.16	0.23
MV15123	5.1	Max WS	TR30_1H	0.95	252.77	253.89	253.41	253.90	0.001266	0.59	1.63	2.88	0.25
MV15123	5.1	Max WS	TR30_2H	0.84	252.77	253.83	253.37	253.85	0.001292	0.57	1.46	2.73	0.25
MV15123	5	Max WS	TR200_30min	1.64	252.77	254.46		254.50	0.001734	0.85	1.94	5.45	0.29
MV15123	5	Max WS	TR200_45min	1.46	252.77	254.28		254.32	0.002274	0.93	1.57	4.38	0.32
MV15123	5	Max WS	TR200_1H	1.29	252.77	254.12		254.17	0.002596	0.99	1.31	3.72	0.33
MV15123	5	Max WS	TR200_2H	1.54	252.77	254.35		254.39	0.002068	0.90	1.70	4.68	0.31
MV15123	5	Max WS	TR30_30min	1.23	252.77	254.07		254.12	0.002632	0.99	1.24	3.50	0.33
MV15123	5	Max WS	TR30_45min	1.09	252.77	253.96		254.01	0.002561	0.99	1.10	3.08	0.32
MV15123	5	Max WS	TR30_1H	0.95	252.77	253.86		253.91	0.002603	0.96	0.99	2.88	0.32
MV15123	5	Max WS	TR30_2H	0.87	252.77	253.80		253.84	0.002603	0.94	0.93	2.76	0.32
MV15123	4.5			Culvert									
MV15123	4	Max WS	TR200_30min	1.64	252.40	253.30	253.21	253.51	0.022459	2.05	0.80	1.26	0.82
MV15123	4	Max WS	TR200_45min	1.46	252.40	253.27	253.16	253.46	0.019725	1.90	0.77	1.24	0.77
MV15123	4	Max WS	TR200_1H	1.29	252.40	253.25	253.10	253.41	0.016995	1.74	0.74	1.22	0.71
MV15123	4	Max WS	TR200_2H	1.54	252.40	253.29	253.17	253.48	0.020001	1.93	0.80	1.26	0.77

HEC-RAS River: Gabbianello Reach: MV15123 Profile: Max WS (Continued)

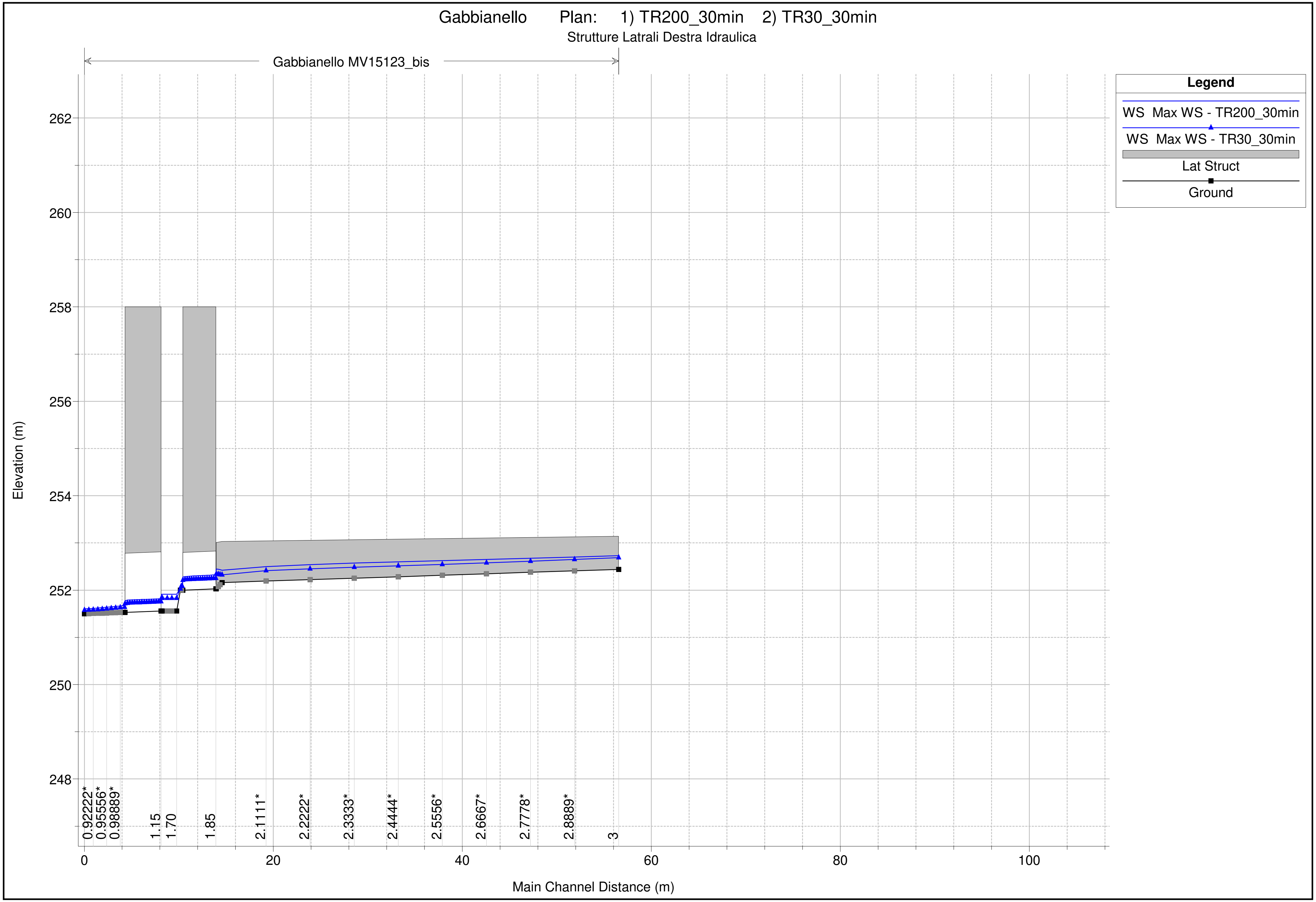
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
MV15123	4	Max WS	TR30_30min	1.21	252.40	253.22	253.08	253.37	0.017011	1.72	0.71	1.20	0.71
MV15123	4	Max WS	TR30_45min	1.08	252.40	253.21	253.04	253.33	0.014150	1.56	0.69	1.19	0.65
MV15123	4	Max WS	TR30_1H	0.95	252.40	253.19	252.99	253.29	0.011727	1.41	0.67	1.18	0.59
MV15123	4	Max WS	TR30_2H	0.84	252.40	253.18	252.95	253.26	0.009815	1.28	0.66	1.16	0.54
MV15123	3.72	Max WS	TR200_30min	1.64	252.19	253.25	253.09	253.41	0.018087	1.76	0.93	1.75	0.77
MV15123	3.72	Max WS	TR200_45min	1.46	252.19	253.24	253.04	253.37	0.014850	1.60	0.92	1.71	0.70
MV15123	3.72	Max WS	TR200_1H	0.89	252.19	253.24	252.86	253.29	0.005481	0.97	0.92	1.72	0.42
MV15123	3.72	Max WS	TR200_2H	1.52	252.19	253.26	253.06	253.39	0.015016	1.61	0.95	1.79	0.71
MV15123	3.72	Max WS	TR30_30min	1.16	252.19	253.20	252.95	253.30	0.010846	1.37	0.85	1.52	0.58
MV15123	3.72	Max WS	TR30_45min	1.07	252.19	253.20	252.92	253.28	0.009260	1.26	0.85	1.51	0.54
MV15123	3.72	Max WS	TR30_1H	0.94	252.19	253.19	252.87	253.25	0.007418	1.13	0.83	1.46	0.48
MV15123	3.72	Max WS	TR30_2H	0.82	252.19	253.18	252.83	253.23	0.005767	1.00	0.82	1.41	0.42

HEC-RAS River: Gabbianello Reach: MV15123 Profile: Max WS

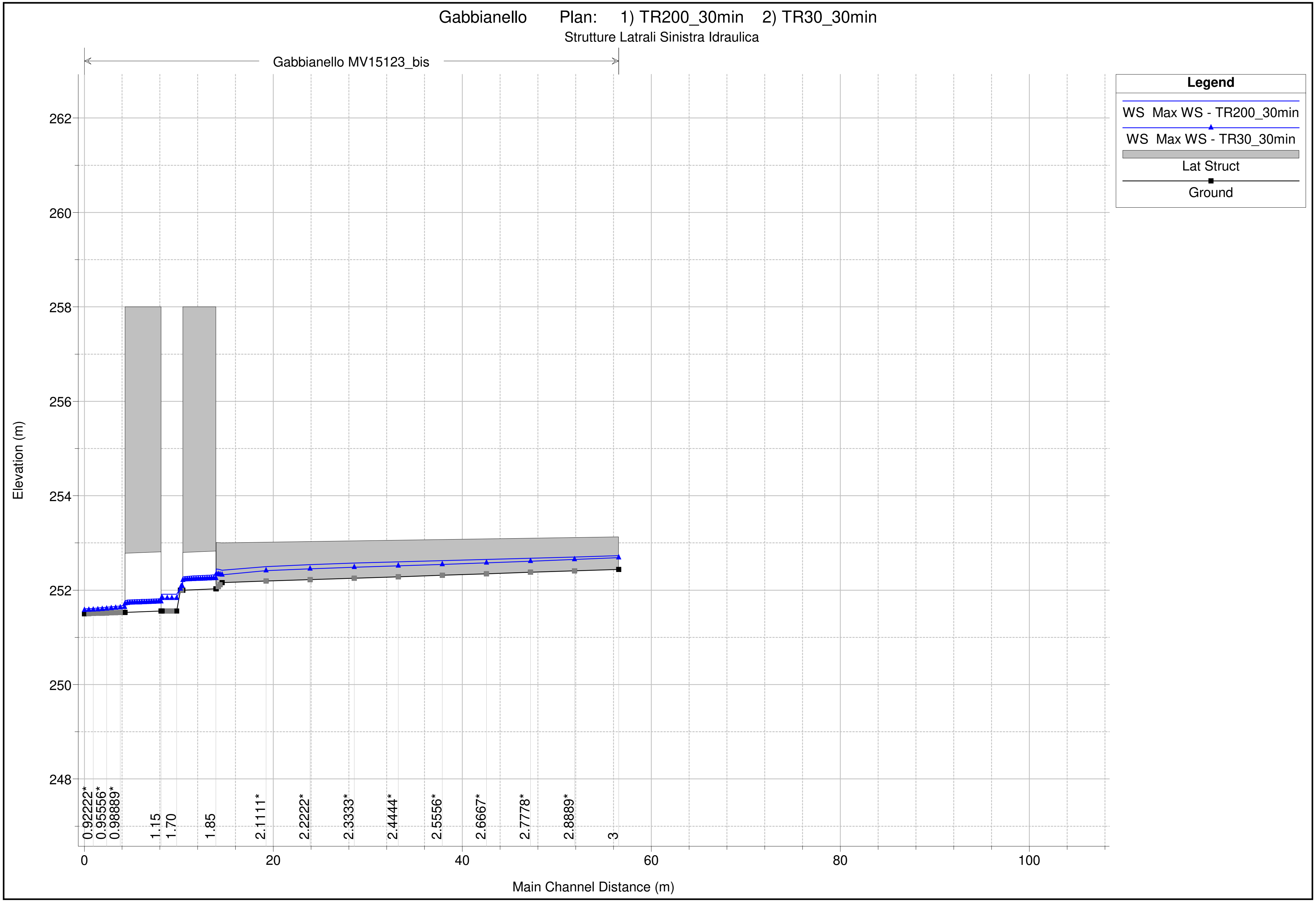
Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
MV15123	8.99	Max WS	TR200_30min	1.80	0.00	1.70	0.00					255.54	255.52	255.51	255.51	255.50
MV15123	8.99	Max WS	TR200_45min	1.53	0.00	1.48	0.00					255.54	255.49	255.48	255.48	255.47
MV15123	8.99	Max WS	TR200_1H	1.30	0.00	1.30	0.00					255.54	255.43	255.42	255.42	255.41
MV15123	8.99	Max WS	TR200_2H	0.88	0.00	0.88	0.00					255.54	255.17	255.13	255.10	255.08
MV15123	8.99	Max WS	TR30_30min	1.24	0.00	1.24	0.00					255.54	255.39	255.37	255.37	255.36
MV15123	8.99	Max WS	TR30_45min	1.09	0.00	1.09	0.00					255.54	255.28	255.26	255.25	255.24
MV15123	8.99	Max WS	TR30_1H	0.96	0.00	0.96	0.00					255.54	255.20	255.17	255.15	255.13
MV15123	8.99	Max WS	TR30_2H	0.64	0.00	0.64	0.00					255.54	255.07	255.02	254.91	254.89
MV15123	8.98	Max WS	TR200_30min	1.80	0.09	1.70	0.09		21.88	0.11	0.06	255.40	255.52	255.51	255.51	255.50
MV15123	8.98	Max WS	TR200_45min	1.53	0.04	1.48	0.04		16.37	0.08	0.04	255.40	255.49	255.48	255.48	255.47
MV15123	8.98	Max WS	TR200_1H	1.30	0.00	1.30	0.00		3.92	0.02	0.01	255.40	255.43	255.42	255.42	255.41
MV15123	8.98	Max WS	TR200_2H	0.88	0.00	0.88	0.00					255.40	255.17	255.13	255.10	255.08
MV15123	8.98	Max WS	TR30_30min	1.24	0.00	1.24	0.00					255.40	255.39	255.37	255.37	255.36
MV15123	8.98	Max WS	TR30_45min	1.09	0.00	1.09	0.00					255.40	255.28	255.26	255.25	255.24
MV15123	8.98	Max WS	TR30_1H	0.96	0.00	0.96	0.00					255.40	255.20	255.17	255.15	255.13
MV15123	8.98	Max WS	TR30_2H	0.64	0.00	0.64	0.00					255.40	255.07	255.02	254.91	254.89
MV15123	7.09	Max WS	TR200_30min	1.70	0.00	1.64	0.00					255.13	254.88	254.80	254.50	254.46
MV15123	7.09	Max WS	TR200_45min	1.48	0.00	1.46	0.00					255.13	254.84	254.76	254.32	254.28
MV15123	7.09	Max WS	TR200_1H	1.30	0.00	1.29	0.00					255.13	254.80	254.73	254.17	254.12
MV15123	7.09	Max WS	TR200_2H	0.88	0.00	1.54	0.00					255.13	254.70	254.65	254.39	254.35
MV15123	7.09	Max WS	TR30_30min	1.24	0.00	1.23	0.00					255.13	254.79	254.72	254.12	254.07
MV15123	7.09	Max WS	TR30_45min	1.09	0.00	1.09	0.00					255.13	254.75	254.69	254.01	253.96
MV15123	7.09	Max WS	TR30_1H	0.96	0.00	0.95	0.00					255.13	254.72	254.66	253.91	253.86
MV15123	7.09	Max WS	TR30_2H	0.64	0.00	0.87	0.00					255.13	254.62	254.58	253.84	253.80
MV15123	7.08	Max WS	TR200_30min	1.70	-0.64	1.64	-0.64		34.79	0.28	0.15	254.89	254.88	254.80	254.50	254.46
MV15123	7.08	Max WS	TR200_45min	1.48	-0.75	1.46	-0.75		36.81	0.30	0.16	254.89	254.84	254.76	254.32	254.28
MV15123	7.08	Max WS	TR200_1H	1.30	-0.79	1.29	-0.79		40.12	0.30	0.15	254.89	254.80	254.73	254.17	254.12
MV15123	7.08	Max WS	TR200_2H	0.88	-0.73	1.54	-0.73		36.43	0.29	0.16	254.89	254.70	254.65	254.39	254.35
MV15123	7.08	Max WS	TR30_30min	1.24	-0.36	1.23	-0.36		31.03	0.22	0.11	254.89	254.79	254.72	254.12	254.07
MV15123	7.08	Max WS	TR30_45min	1.09	-0.47	1.09	-0.47		31.96	0.24	0.13	254.89	254.75	254.69	254.01	253.96
MV15123	7.08	Max WS	TR30_1H	0.96	-0.52	0.95	-0.52		32.78	0.25	0.14	254.89	254.72	254.66	253.91	253.86
MV15123	7.08	Max WS	TR30_2H	0.64	-0.53	0.87	-0.53		32.88	0.26	0.14	254.89	254.62	254.58	253.84	253.80

FOSSO

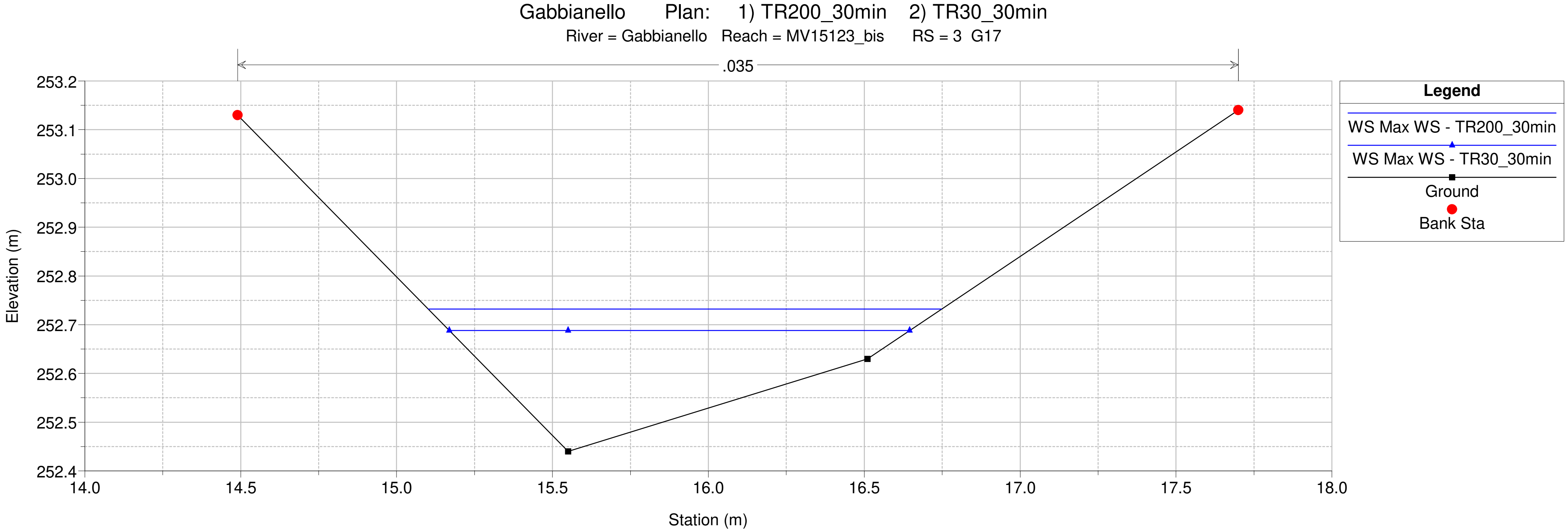
MV15123_bis

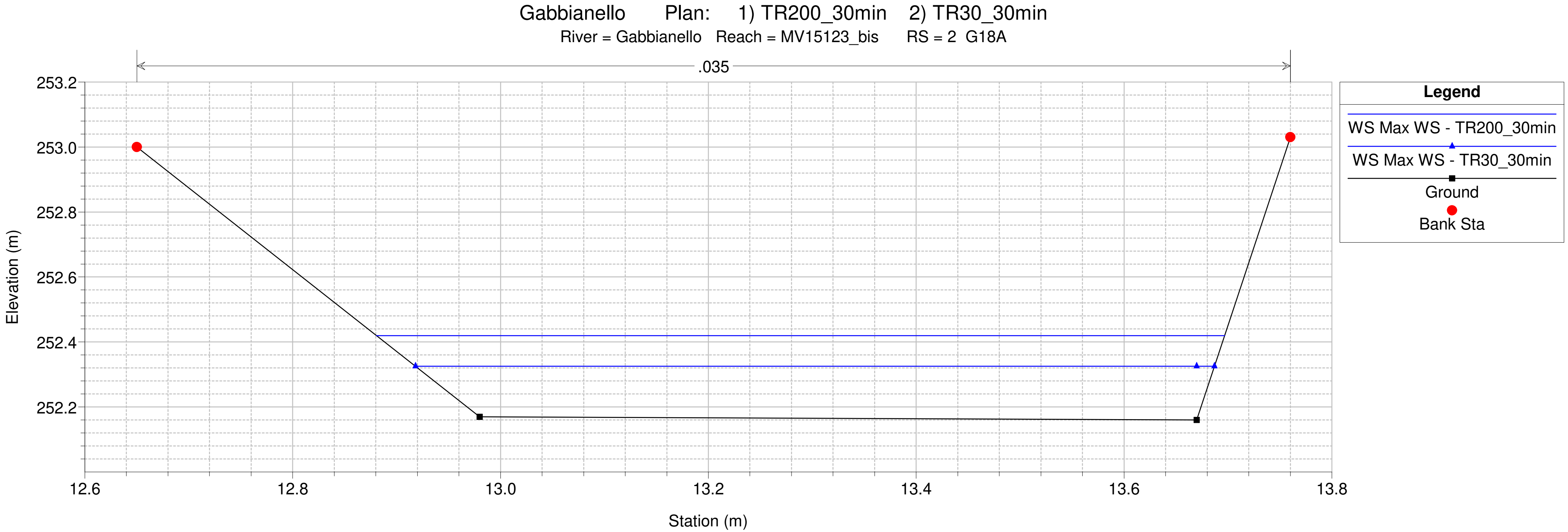


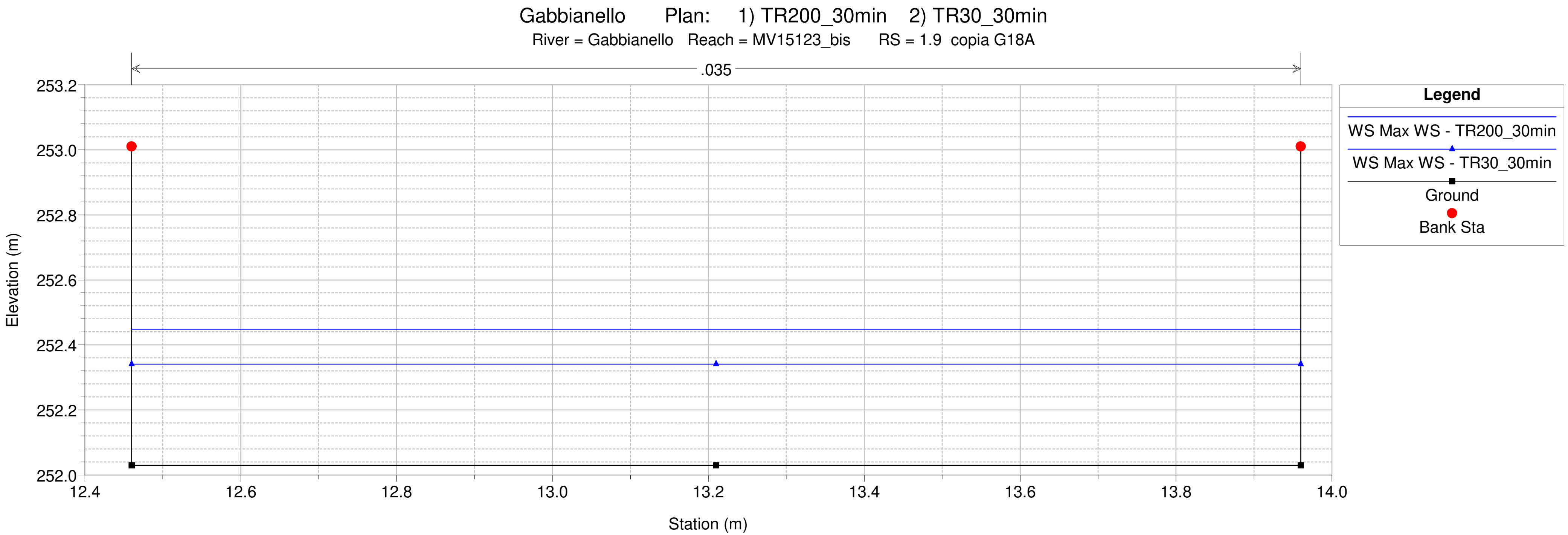
1 cm Horiz. = 5 m 1 cm Vert. = 1 m

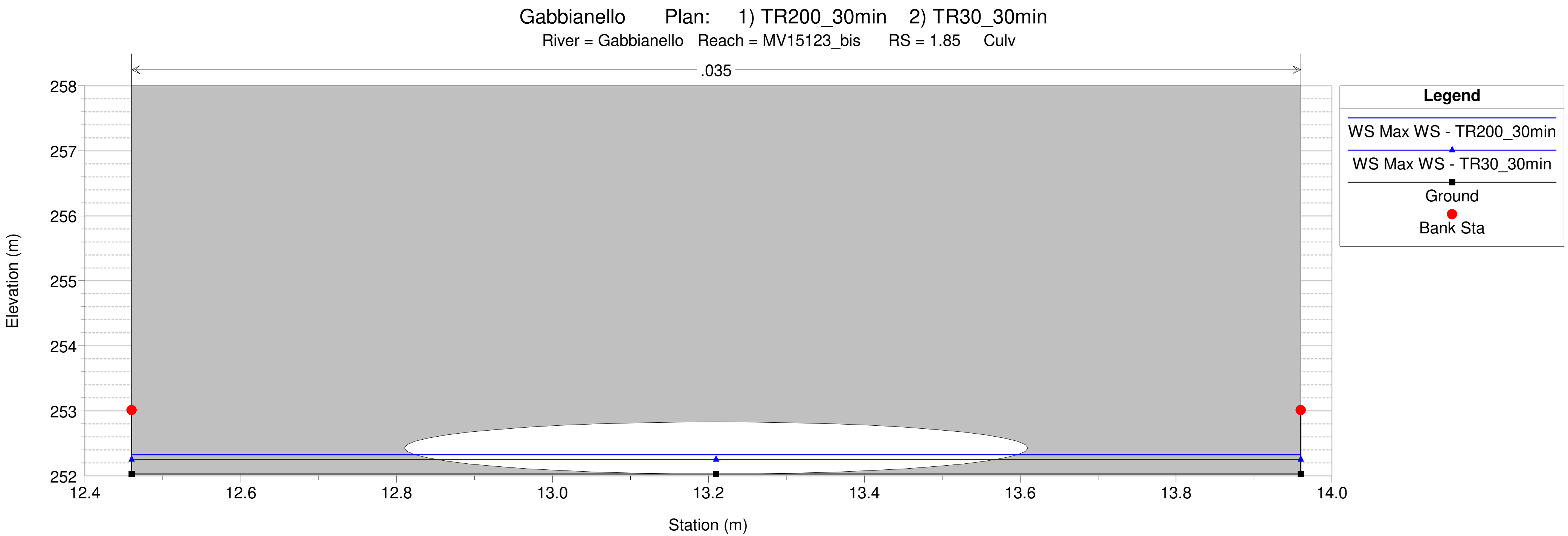


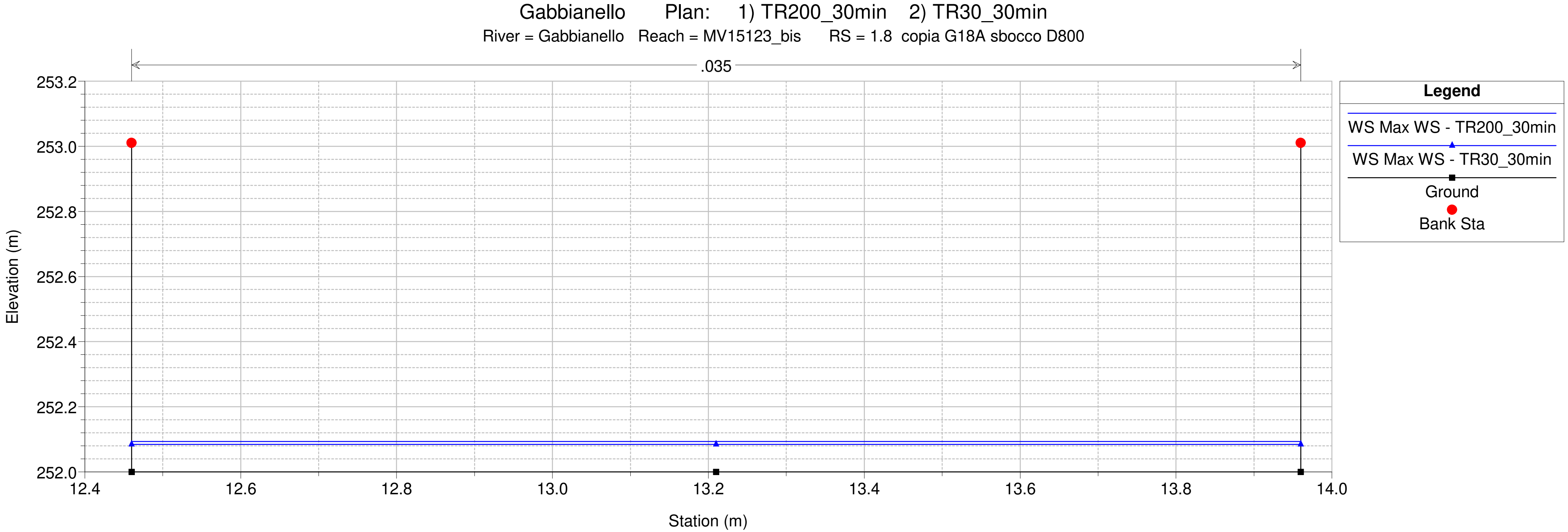
1 cm Horiz. = 5 m 1 cm Vert. = 1 m

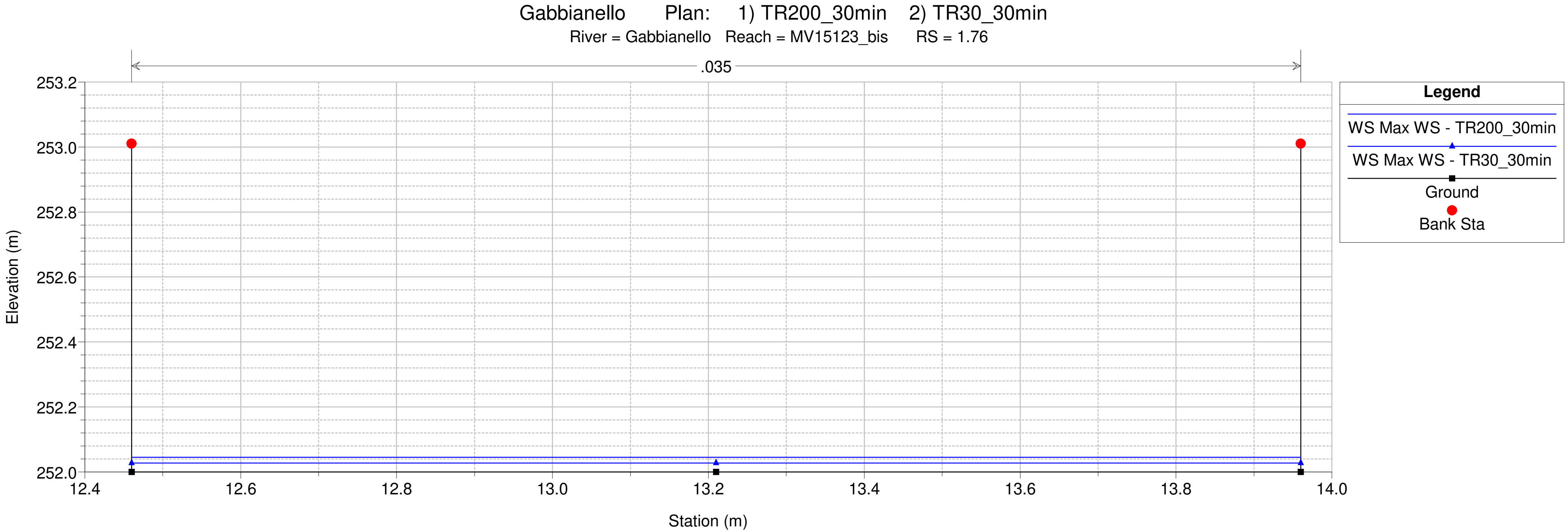

Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 3 G17
.035
Elevation (m)
253.2
253.1
253.0
252.9
252.8
252.7
252.6
252.5
252.4
14.0
14.5
15.0
15.5
16.0
16.5
17.0
17.5
18.0
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

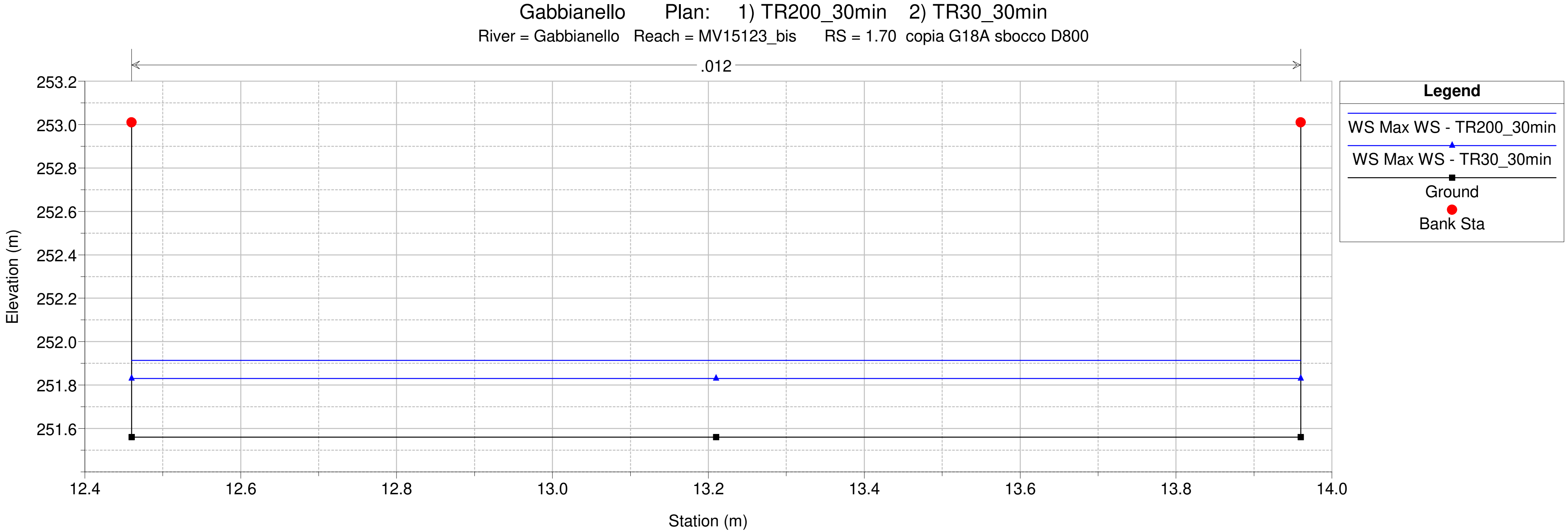

Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 2 G18A
.035
Elevation (m)
253.2
253.0
252.8
252.6
252.4
252.2
12.6
12.8
13.0
13.2
13.4
13.6
13.8
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

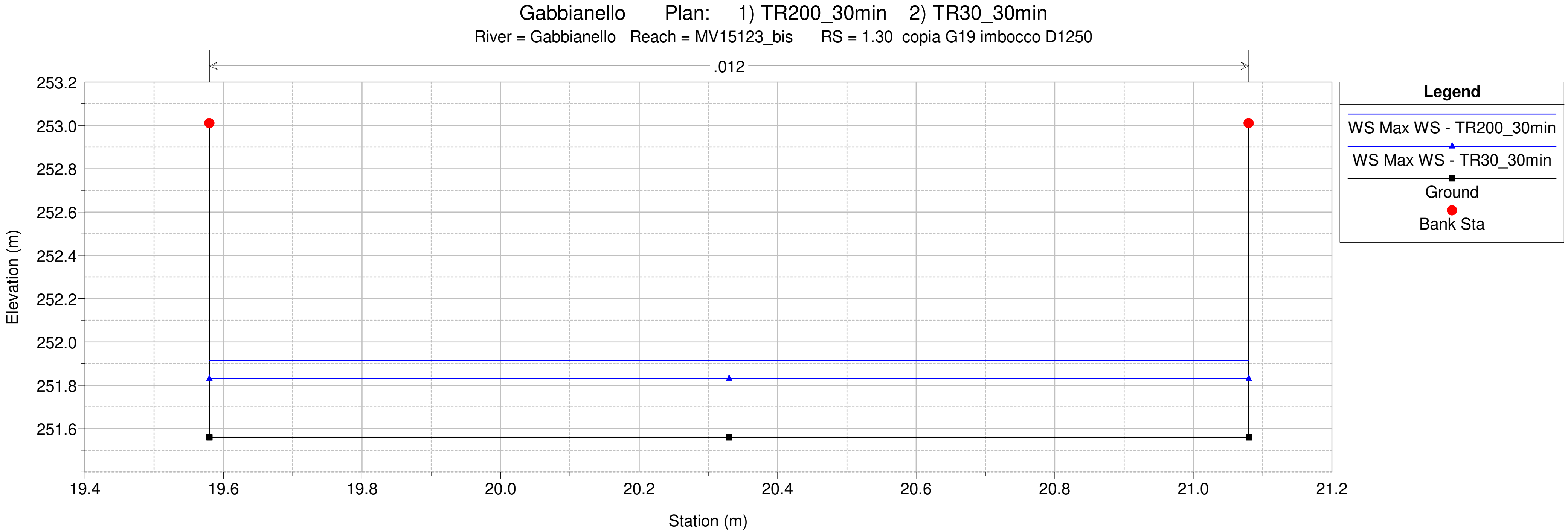

Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1.9 copia G18A
.035
253.2
253.0
252.8
252.6
252.4
252.2
252.0
Elevation (m)
12.4
12.6
12.8
13.0
13.2
13.4
13.6
13.8
14.0
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

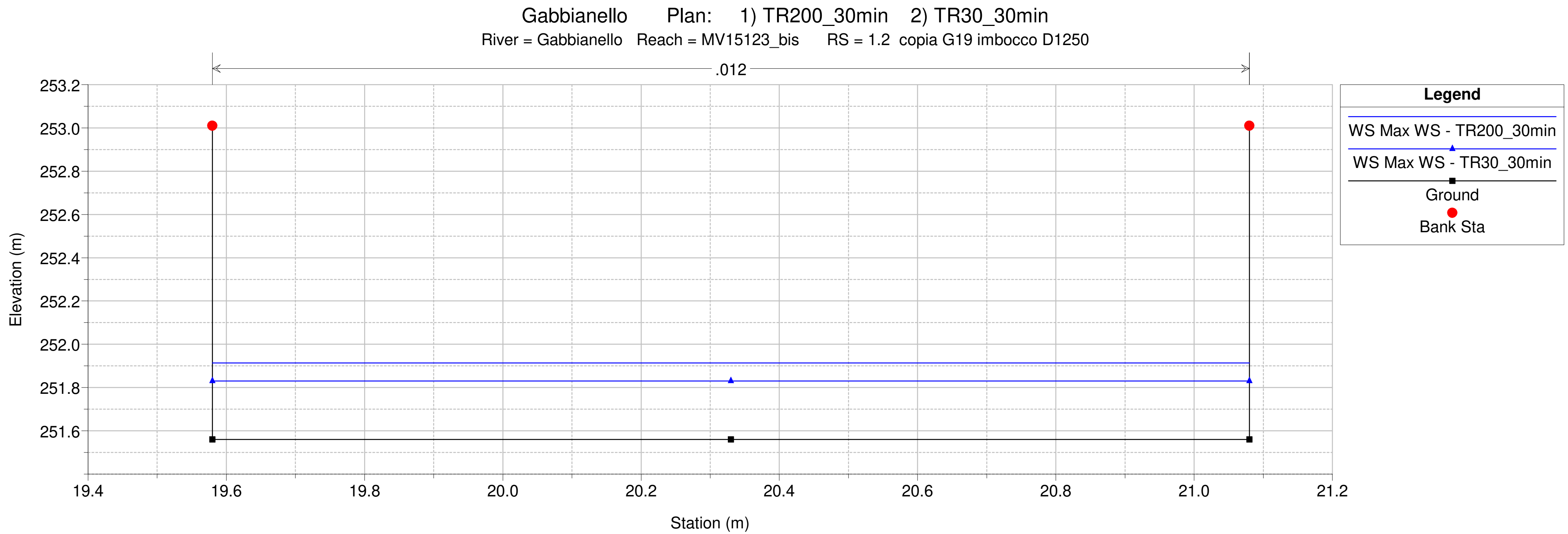

Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1.85 Culv
.035
258
257
256
255
254
253
252
Elevation (m)
12.4
12.6
12.8
13.0
13.2
13.4
13.6
13.8
14.0
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

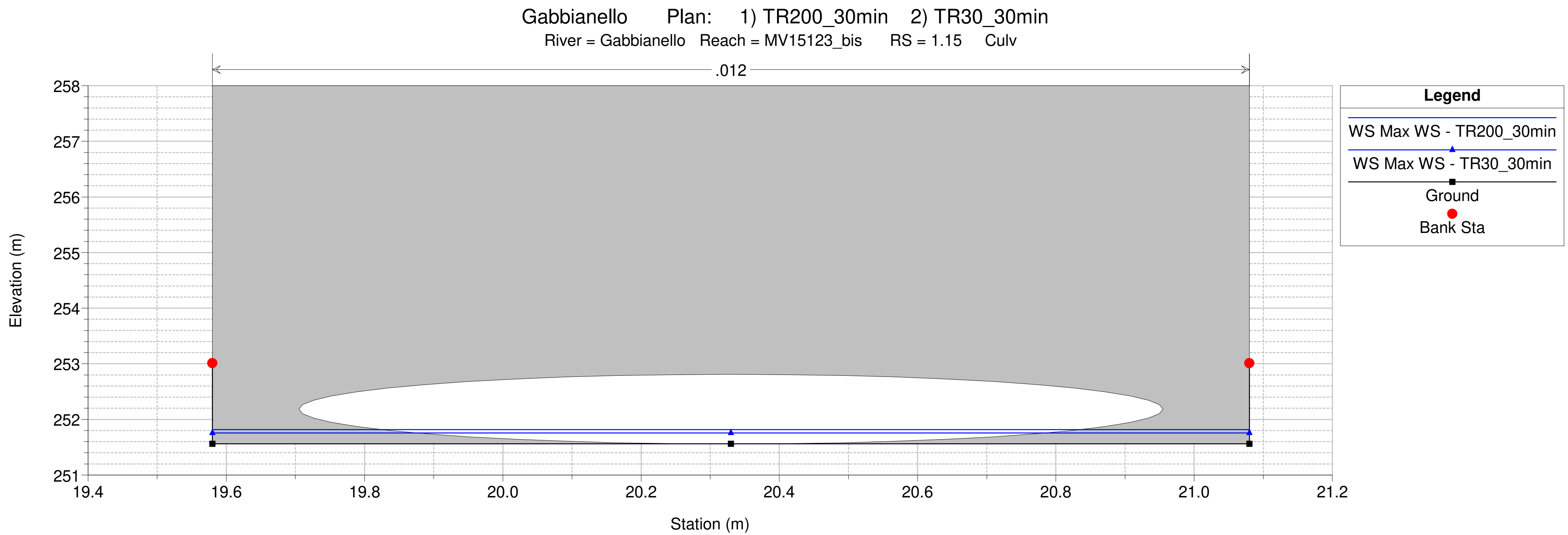

Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1.8 copia G18A sbocco D800
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

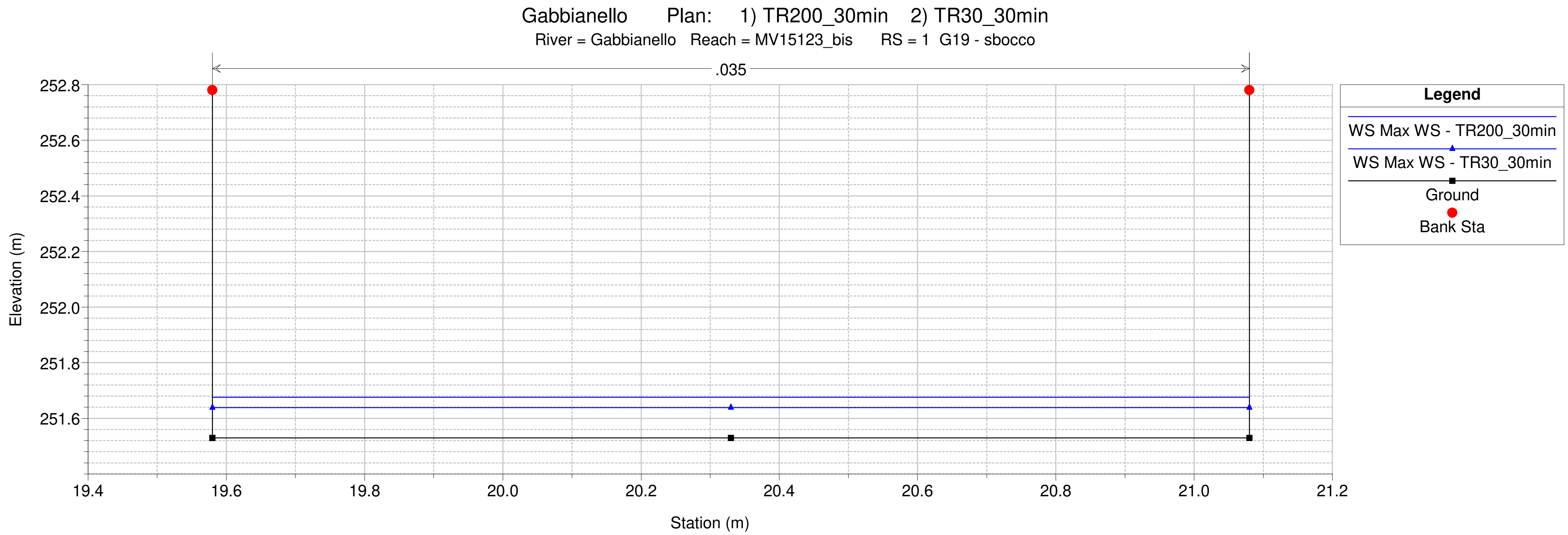

Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1.76
.035
Elevation (m)
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1.70 copia G18A sbocco D800
.012
Elevation (m)
253.2
253.0
252.8
252.6
252.4
252.2
252.0
251.8
251.6
12.4
12.6
12.8
13.0
13.2
13.4
13.6
13.8
14.0
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

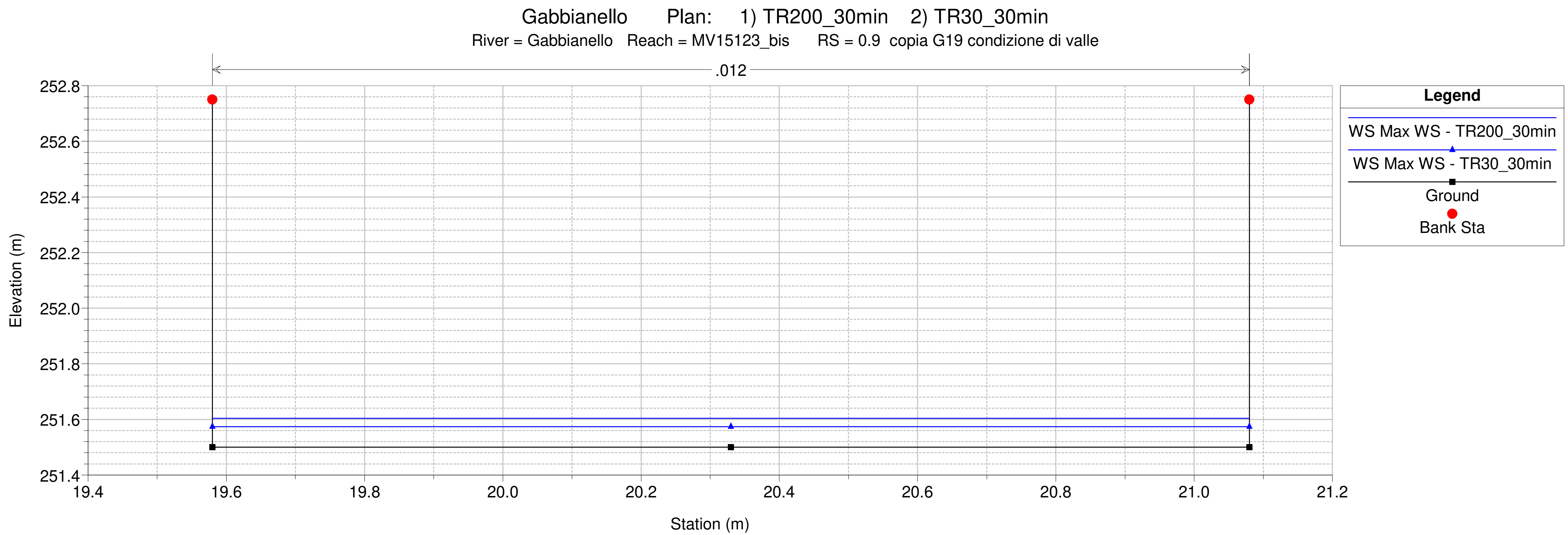

Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1.30 copia G19 imbocco D1250
.012
Elevation (m)
253.2
253.0
252.8
252.6
252.4
252.2
252.0
251.8
251.6
19.4
19.6
19.8
20.0
20.2
20.4
20.6
20.8
21.0
21.2
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1.2 copia G19 imbocco D1250
.012
Elevation (m)
253.2
253.0
252.8
252.6
252.4
252.2
252.0
251.8
251.6
19.4
19.6
19.8
20.0
20.2
20.4
20.6
20.8
21.0
21.2
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta


Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1.15 Culv
.012
Elevation (m)
258
257
256
255
254
253
252
251
19.4
19.6
19.8
20.0
20.2
20.4
20.6
20.8
21.0
21.2
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 1 G19 - sbocco
.035
252.8
252.6
252.4
252.2
252.0
251.8
251.6
Elevation (m)
19.4
19.6
19.8
20.0
20.2
20.4
20.6
20.8
21.0
21.2
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta



Gabbianello Plan: 1) TR200_30min 2) TR30_30min
River = Gabbianello Reach = MV15123_bis RS = 0.9 copia G19 condizione di valle
.012
252.8
252.6
252.4
252.2
252.0
251.8
251.6
251.4
Elevation (m)
19.4
19.6
19.8
20.0
20.2
20.4
20.6
20.8
21.0
21.2
Station (m)
Legend
WS Max WS - TR200_30min
WS Max WS - TR30_30min
Ground
Bank Sta

HEC-RAS Profile: Max WS

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Gabbianello	MV15123_bis	3	Max WS	TR200_30min	0.10	252.44	252.73	252.62	252.74	0.002154	0.38	0.27	1.65	0.30
Gabbianello	MV15123_bis	3	Max WS	TR200_45min	0.10	252.44	252.72	252.62	252.73	0.002476	0.39	0.25	1.62	0.32
Gabbianello	MV15123_bis	3	Max WS	TR200_1H	0.10	252.44	252.73	252.62	252.73	0.002384	0.39	0.26	1.62	0.31
Gabbianello	MV15123_bis	3	Max WS	TR200_2H	0.10	252.44	252.75	252.62	252.75	0.001719	0.35	0.29	1.70	0.27
Gabbianello	MV15123_bis	3	Max WS	TR30_30min	0.10	252.44	252.69	252.62	252.70	0.004977	0.50	0.20	1.48	0.44
Gabbianello	MV15123_bis	3	Max WS	TR30_45min	0.10	252.44	252.69	252.62	252.70	0.005276	0.52	0.19	1.47	0.45
Gabbianello	MV15123_bis	3	Max WS	TR30_1H	0.10	252.44	252.68	252.62	252.69	0.005987	0.54	0.19	1.44	0.48
Gabbianello	MV15123_bis	3	Max WS	TR30_2H	0.10	252.44	252.67	252.62	252.69	0.006631	0.56	0.18	1.43	0.50
Gabbianello	MV15123_bis	2.99			Lat Struct									
Gabbianello	MV15123_bis	2.98			Lat Struct									
Gabbianello	MV15123_bis	2.8889*	Max WS	TR200_30min	0.15	252.41	252.70	252.61	252.72	0.004334	0.55	0.28	1.58	0.42
Gabbianello	MV15123_bis	2.8889*	Max WS	TR200_45min	0.15	252.41	252.69	252.61	252.71	0.004726	0.57	0.26	1.55	0.44
Gabbianello	MV15123_bis	2.8889*	Max WS	TR200_1H	0.15	252.41	252.70	252.61	252.71	0.004627	0.56	0.26	1.55	0.44
Gabbianello	MV15123_bis	2.8889*	Max WS	TR200_2H	0.16	252.41	252.72	252.61	252.73	0.003743	0.53	0.30	1.63	0.40
Gabbianello	MV15123_bis	2.8889*	Max WS	TR30_30min	0.12	252.41	252.65	252.59	252.67	0.007410	0.63	0.20	1.40	0.54
Gabbianello	MV15123_bis	2.8889*	Max WS	TR30_45min	0.12	252.41	252.65	252.59	252.67	0.007453	0.63	0.19	1.39	0.54
Gabbianello	MV15123_bis	2.8889*	Max WS	TR30_1H	0.12	252.41	252.64	252.59	252.66	0.007889	0.63	0.18	1.37	0.55
Gabbianello	MV15123_bis	2.8889*	Max WS	TR30_2H	0.11	252.41	252.64	252.59	252.66	0.008000	0.63	0.18	1.36	0.55
Gabbianello	MV15123_bis	2.7778*	Max WS	TR200_30min	0.18	252.38	252.67	252.58	252.69	0.005066	0.62	0.28	1.50	0.46
Gabbianello	MV15123_bis	2.7778*	Max WS	TR200_45min	0.17	252.38	252.66	252.58	252.68	0.005421	0.63	0.27	1.47	0.47
Gabbianello	MV15123_bis	2.7778*	Max WS	TR200_1H	0.17	252.38	252.67	252.58	252.69	0.005289	0.63	0.27	1.48	0.47
Gabbianello	MV15123_bis	2.7778*	Max WS	TR200_2H	0.19	252.38	252.69	252.59	252.71	0.004464	0.61	0.31	1.55	0.43
Gabbianello	MV15123_bis	2.7778*	Max WS	TR30_30min	0.13	252.38	252.61	252.56	252.63	0.007877	0.67	0.19	1.33	0.55
Gabbianello	MV15123_bis	2.7778*	Max WS	TR30_45min	0.13	252.38	252.61	252.56	252.63	0.007883	0.66	0.19	1.32	0.55
Gabbianello	MV15123_bis	2.7778*	Max WS	TR30_1H	0.12	252.38	252.60	252.55	252.62	0.008055	0.65	0.18	1.30	0.56
Gabbianello	MV15123_bis	2.7778*	Max WS	TR30_2H	0.11	252.38	252.60	252.55	252.62	0.007990	0.64	0.18	1.29	0.55
Gabbianello	MV15123_bis	2.6667*	Max WS	TR200_30min	0.19	252.35	252.65	252.55	252.67	0.004886	0.64	0.29	1.43	0.45
Gabbianello	MV15123_bis	2.6667*	Max WS	TR200_45min	0.18	252.35	252.64	252.54	252.66	0.005196	0.64	0.28	1.40	0.46
Gabbianello	MV15123_bis	2.6667*	Max WS	TR200_1H	0.18	252.35	252.64	252.54	252.66	0.005049	0.64	0.28	1.41	0.46
Gabbianello	MV15123_bis	2.6667*	Max WS	TR200_2H	0.20	252.35	252.67	252.56	252.69	0.004334	0.62	0.32	1.48	0.43
Gabbianello	MV15123_bis	2.6667*	Max WS	TR30_30min	0.13	252.35	252.58	252.52	252.60	0.007373	0.66	0.20	1.26	0.54
Gabbianello	MV15123_bis	2.6667*	Max WS	TR30_45min	0.13	252.35	252.57	252.52	252.60	0.007379	0.66	0.19	1.25	0.54
Gabbianello	MV15123_bis	2.6667*	Max WS	TR30_1H	0.12	252.35	252.57	252.51	252.59	0.007435	0.65	0.18	1.23	0.54
Gabbianello	MV15123_bis	2.6667*	Max WS	TR30_2H	0.11	252.35	252.56	252.51	252.58	0.007486	0.64	0.18	1.22	0.54
Gabbianello	MV15123_bis	2.5556*	Max WS	TR200_30min	0.19	252.32	252.62	252.52	252.65	0.004707	0.65	0.30	1.35	0.44
Gabbianello	MV15123_bis	2.5556*	Max WS	TR200_45min	0.18	252.32	252.61	252.51	252.63	0.004941	0.65	0.28	1.33	0.45
Gabbianello	MV15123_bis	2.5556*	Max WS	TR200_1H	0.18	252.32	252.62	252.51	252.64	0.004768	0.64	0.29	1.33	0.44
Gabbianello	MV15123_bis	2.5556*	Max WS	TR200_2H	0.21	252.32	252.65	252.52	252.67	0.004212	0.63	0.33	1.39	0.42
Gabbianello	MV15123_bis	2.5556*	Max WS	TR30_30min	0.13	252.32	252.54	252.48	252.57	0.006950	0.66	0.20	1.19	0.52
Gabbianello	MV15123_bis	2.5556*	Max WS	TR30_45min	0.13	252.32	252.54	252.48	252.56	0.006921	0.65	0.19	1.18	0.52
Gabbianello	MV15123_bis	2.5556*	Max WS	TR30_1H	0.12	252.32	252.53	252.47	252.55	0.007005	0.64	0.18	1.17	0.52
Gabbianello	MV15123_bis	2.5556*	Max WS	TR30_2H	0.11	252.32	252.53	252.47	252.55	0.007048	0.64	0.18	1.16	0.52
Gabbianello	MV15123_bis	2.4444*	Max WS	TR200_30min	0.20	252.28	252.60	252.48	252.62	0.004777	0.67	0.30	1.26	0.44
Gabbianello	MV15123_bis	2.4444*	Max WS	TR200_45min	0.19	252.28	252.59	252.48	252.61	0.004938	0.66	0.28	1.24	0.44
Gabbianello	MV15123_bis	2.4444*	Max WS	TR200_1H	0.19	252.28	252.59	252.48	252.61	0.004754	0.66	0.29	1.25	0.44
Gabbianello	MV15123_bis	2.4444*	Max WS	TR200_2H	0.22	252.28	252.62	252.49	252.65	0.004325	0.66	0.33	1.30	0.42
Gabbianello	MV15123_bis	2.4444*	Max WS	TR30_30min	0.13	252.28	252.51	252.44	252.54	0.006494	0.65	0.20	1.12	0.50
Gabbianello	MV15123_bis	2.4444*	Max WS	TR30_45min	0.13	252.28	252.51	252.44	252.53	0.006461	0.65	0.19	1.11	0.50
Gabbianello	MV15123_bis	2.4444*	Max WS	TR30_1H	0.12	252.28	252.50	252.43	252.52	0.006559	0.64	0.18	1.10	0.50
Gabbianello	MV15123_bis	2.4444*	Max WS	TR30_2H	0.11	252.28	252.50	252.43	252.52	0.006584	0.63	0.18	1.09	0.50
Gabbianello	MV15123_bis	2.3333*	Max WS	TR200_30min	0.21	252.25	252.57	252.45	252.60	0.005319	0.71	0.29	1.16	0.45
Gabbianello	MV15123_bis	2.3333*	Max WS	TR200_45min	0.19	252.25	252.56	252.44	252.59	0.005348	0.70	0.28	1.15	0.45
Gabbianello	MV15123_bis	2.3333*	Max WS	TR200_1H	0.20	252.25	252.57	252.45	252.59	0.005182	0.69	0.29	1.16	0.45
Gabbianello	MV15123_bis	2.3333*	Max WS	TR200_2H	0.23	252.25	252.60	252.46	252.62	0.004827	0.70	0.32	1.20	0.43
Gabbianello	MV15123_bis	2.3333*	Max WS	TR30_30min	0.13	252.25	252.48	252.41	252.51	0.006432	0.66	0.19	1.04	0.49
Gabbianello	MV15123_bis	2.3333*	Max WS	TR30_45min	0.13	252.25	252.48	252.40	252.50	0.006397	0.65	0.19	1.04	0.49
Gabbianello	MV15123_bis	2.3333*	Max WS	TR30_1H	0.12	252.25	252.47	252.40	252.49	0.006424	0.64	0.18	1.03	0.49
Gabbianello	MV15123_bis	2.3333*	Max WS	TR30_2H	0.11	252.25	252.47	252.39	252.49	0.006432	0.63	0.18	1.02	0.49
Gabbianello	MV15123_bis	2.2222*	Max WS	TR200_30min	0.21	252.22	252.54	252.43	252.57	0.006447	0.77	0.28	1.06	0.48
Gabbianello	MV15123_bis	2.2222*	Max WS	TR200_45min	0.20	252.22	252.53	252.42	252.56	0.006304	0.75	0.27	1.05	0.48
Gabbianello	MV15123_bis	2.2222*	Max WS	TR200_1H	0.20	252.22	252.54	252.42	252.56	0.006114	0.75	0.27	1.05	0.47
Gabbianello	MV15123_bis	2.2222*	Max WS	TR200_2H	0.24	252.22	252.57	252.44	252.60	0.005891	0.77	0.31	1.09	0.46
Gabbianello	MV15123_bis	2.2222*	Max WS	TR30_30min	0.13	252.22	252.45	252.37	252.48	0.006813	0.68	0.19	0.97	0.49
Gabbianello	MV15123_bis	2.2222*	Max WS	TR30_45min	0.13	252.22	252.45	252.37	252.47	0.006782	0.67	0.19	0.96	0.49
Gabbianello	MV15123_bis	2.2222*	Max WS	TR30_1H	0.12	252.22	252.44	252.36	252.46	0.006776	0.66	0.18	0.95	0.49
Gabbianello	MV15123_bis	2.2222*	Max WS	TR30_2H	0.11	252.22	252.44	252.36	252.46	0.006749	0.65	0.17	0.95	0.49
Gabbianello	MV15123_bis	2.1111*	Max WS	TR200_30min	0.22	252.19	252.50	252.40	252.54	0.008978	0.88	0.25	0.94	0.55
Gabbianello	MV15123_bis	2.1111*	Max WS	TR200_45min	0.20	252.19	252.49	252.39	252.52	0.008611	0.85	0.24	0.94	0.53
Gabbianello	MV15123_bis	2.1111*	Max WS	TR200_1H	0.21	252.19	252.49	252.40	252.53	0.008436	0.85	0.25	0.94	0.53
Gabbianello	MV15123_bis	2.1111*	Max WS	TR200_2H	0.24	252.19	252.53	252.41	252.57	0.008283	0.88	0.28	0.97	0.52
Gabbianello	MV15123_bis	2.1111*	Max WS	TR30_30min	0.13	252.19	252.41	252.34	252.44	0.008621	0.74	0.17	0.88	0.53
Gabbianello	MV15123_bis	2.1111*	Max WS	TR30_45min	0.13	252.19	252.41	252.34	252.44	0.008552	0.73	0.17	0.88	0.53
Gabbianello	MV15123_bis	2.1111*	Max WS	TR30_1H	0.12	252.19	252.40	252.33	252.43	0.008447	0.72	0.16	0.87	0.53
Gabbianello	MV15123_bis	2.1111*	Max WS	TR30_2H	0.11	252.19	252.40	252.33	252.42	0.008383	0.71	0.16	0.87	0.53
Gabbianello	MV15123_bis	2	Max WS	TR200_30min	0.22	252.16	252.42	252.38	252.49	0.019165	1.15	0.19	0.82	0.76
Gabbianello	MV15123_bis	2	Max WS	TR200_45min	0.21	252.16	252.41	252.37	252.48	0.019580	1.14	0.18	0.81	0.77
Gabbianello	MV15123_bis	2	Max WS	TR200_1H	0.22	252.16	252.42	252.38	252.48	0.019130	1.14	0.19	0.81	0.76
Gabbianello	MV15123_bis	2	Max WS	TR200_2H	0.25	252.16	252.45	252.40	252.52	0.017675	1.16	0.22	0.83	0.73
Gabbianello	MV15123_bis	2	Max WS	TR30_30min	0.13	252.16	252.33	252.31	252.39	0.026528	1.10	0.12	0.77	0.90
Gabbianello	MV15123_bis	2	Max WS	TR30_45min	0.13	252.16	252.32	252.31	252.38	0.026974	1.09	0.11	0.77	0.90
Gabbianello	MV15123_bis	2	Max WS	TR30_1H	0.12	252.16	252.31	252.31	252.37	0.028773	1.09	0.11	0.76	0.93
Gabbianello	MV15123_bis	2	Max WS	TR30_2H	0.11	252.16	252.31	252.30	252.37	0.029646	1.09	0.10	0.76	0.95
Gabbianello	MV15123_bis	1.9667*	Max WS	TR200_30min	0.22	252.12	252.43	252.29	252.46	0.005043	0.69	0.32	1.06	0.40
Gabbianello	MV15123_bis	1.9667*	Max WS	TR200_45min	0.21	252.12	252.42	252.29	252.45	0.005071	0.68	0.31	1.06	0.40
Gabbianello	MV15123_bis	1.9667*	Max WS	TR200_1H	0.22	252.12	252.43	252.29	252.46	0.005039	0.69	0.32	1.06	0.40
Gabbianello	MV15123_bis	1.9667*	Max WS	TR200_2H	0.25	252.12	252.47	252.31	252.49	0.004936	0.71	0.35	1.07	0.40
Gabbianello	MV15123_bis	1.9667*	Max WS	TR30_30min	0.13	252.12	252.33	252.24	252.35	0.005658	0.61	0.21	1.03	0.43
Gabbianello	MV15123_bis	1.9667*	Max WS	TR30_45min	0.13	252.12	252.33	252.24	252.35	0.005718	0.61	0.21	1.02	0.43
Gabbianello	MV15123_bis	1.9667*	Max WS	TR30_1H	0.12	252.12	252.31	252.23	252.33	0.005968	0.60	0.19	1.02	0.44
Gabbianello	MV15123_bis	1.9667*	Max WS	TR30_2H	0.11	252.12	252.31	252.23	252.33	0.006113	0.60	0.19	1.02	0.45
Gabbianello	MV15123_bis	1.9333*	Max WS	TR200_30min	0.22	252.07	252.44	252.22	252.46	0.001878	0.47	0.47	1.29	0.25
Gabbianello	MV15123_bis	1.9333*	Max WS	TR200_45min	0.21	252.07	252.43	252.22	252.44	0.001858	0.47	0.45	1.28	0.25
Gabbianello	MV15123_bis	1.9333*	Max WS	TR200_1H	0.22	252.07	252.44	252.22	252.45	0.001870	0.47	0.46	1.28	0.25

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Gabbianello	MV15123_bis	1.9333*	Max WS	TR200_2H	0.25	252.07	252.48	252.24	252.49	0.001927	0.50	0.51	1.29	0.25
Gabbianello	MV15123_bis	1.9333*	Max WS	TR30_30min	0.13	252.07	252.34	252.18	252.35	0.001705	0.39	0.33	1.27	0.24
Gabbianello	MV15123_bis	1.9333*	Max WS	TR30_45min	0.13	252.07	252.33	252.17	252.34	0.001705	0.38	0.33	1.27	0.24
Gabbianello	MV15123_bis	1.9333*	Max WS	TR30_1H	0.12	252.07	252.32	252.17	252.33	0.001706	0.38	0.31	1.27	0.24
Gabbianello	MV15123_bis	1.9333*	Max WS	TR30_2H	0.11	252.07	252.32	252.17	252.32	0.001711	0.37	0.30	1.27	0.24
Gabbianello	MV15123_bis	1.9	Max WS	TR200_30min	0.22	252.03	252.45		252.46	0.000877	0.35	0.63	1.50	0.17
Gabbianello	MV15123_bis	1.9	Max WS	TR200_45min	0.21	252.03	252.44		252.44	0.000861	0.34	0.61	1.50	0.17
Gabbianello	MV15123_bis	1.9	Max WS	TR200_1H	0.22	252.03	252.45		252.45	0.000872	0.35	0.62	1.50	0.17
Gabbianello	MV15123_bis	1.9	Max WS	TR200_2H	0.25	252.03	252.48		252.49	0.000927	0.37	0.68	1.50	0.18
Gabbianello	MV15123_bis	1.9	Max WS	TR30_30min	0.13	252.03	252.34		252.35	0.000693	0.27	0.47	1.50	0.16
Gabbianello	MV15123_bis	1.9	Max WS	TR30_45min	0.13	252.03	252.34		252.34	0.000689	0.27	0.46	1.50	0.16
Gabbianello	MV15123_bis	1.9	Max WS	TR30_1H	0.12	252.03	252.32		252.33	0.000675	0.26	0.44	1.50	0.16
Gabbianello	MV15123_bis	1.9	Max WS	TR30_2H	0.11	252.03	252.32		252.32	0.000668	0.26	0.43	1.50	0.15
Gabbianello	MV15123_bis	1.85			Culvert									
Gabbianello	MV15123_bis	1.8	Max WS	TR200_30min	0.22	252.00	252.09	252.13	252.22	0.084738	1.58	0.14	1.50	1.65
Gabbianello	MV15123_bis	1.8	Max WS	TR200_45min	0.21	252.00	252.09	252.13	252.21	0.080908	1.53	0.14	1.50	1.61
Gabbianello	MV15123_bis	1.8	Max WS	TR200_1H	0.22	252.00	252.09	252.13	252.22	0.083897	1.57	0.14	1.50	1.64
Gabbianello	MV15123_bis	1.8	Max WS	TR200_2H	0.25	252.00	252.10	252.14	252.25	0.094007	1.72	0.15	1.50	1.75
Gabbianello	MV15123_bis	1.8	Max WS	TR30_30min	0.10	252.00	252.08	252.08	252.12	0.024043	0.79	0.13	1.50	0.87
Gabbianello	MV15123_bis	1.8	Max WS	TR30_45min	0.10	252.00	252.08	252.08	252.12	0.024043	0.79	0.13	1.50	0.87
Gabbianello	MV15123_bis	1.8	Max WS	TR30_1H	0.10	252.00	252.08	252.08	252.12	0.024043	0.79	0.13	1.50	0.87
Gabbianello	MV15123_bis	1.8	Max WS	TR30_2H	0.10	252.00	252.08	252.08	252.12	0.024043	0.79	0.13	1.50	0.87
Gabbianello	MV15123_bis	1.7833*	Max WS	TR200_30min	0.22	252.00	252.08	252.13	252.24	0.119129	1.76	0.13	1.50	1.94
Gabbianello	MV15123_bis	1.7833*	Max WS	TR200_45min	0.21	252.00	252.08	252.13	252.23	0.113064	1.70	0.12	1.50	1.89
Gabbianello	MV15123_bis	1.7833*	Max WS	TR200_1H	0.22	252.00	252.08	252.13	252.24	0.118275	1.75	0.12	1.50	1.93
Gabbianello	MV15123_bis	1.7833*	Max WS	TR200_2H	0.25	252.00	252.09	252.14	252.28	0.135437	1.93	0.13	1.50	2.08
Gabbianello	MV15123_bis	1.7833*	Max WS	TR30_30min	0.10	252.00	252.08	252.08	252.12	0.026722	0.82	0.12	1.50	0.92
Gabbianello	MV15123_bis	1.7833*	Max WS	TR30_45min	0.10	252.00	252.08	252.08	252.12	0.026722	0.82	0.12	1.50	0.92
Gabbianello	MV15123_bis	1.7833*	Max WS	TR30_1H	0.10	252.00	252.08	252.08	252.12	0.026722	0.82	0.12	1.50	0.92
Gabbianello	MV15123_bis	1.7833*	Max WS	TR30_2H	0.10	252.00	252.08	252.08	252.12	0.026722	0.82	0.12	1.50	0.92
Gabbianello	MV15123_bis	1.76	Max WS	TR200_30min	0.22	252.00	252.05	252.13	252.59	0.882368	3.27	0.07	1.50	4.92
Gabbianello	MV15123_bis	1.76	Max WS	TR200_45min	0.21	252.00	252.04	252.13	252.59	0.935118	3.27	0.06	1.50	5.03
Gabbianello	MV15123_bis	1.76	Max WS	TR200_1H	0.22	252.00	252.04	252.13	252.59	0.892798	3.26	0.07	1.50	4.94
Gabbianello	MV15123_bis	1.76	Max WS	TR200_2H	0.25	252.00	252.05	252.14	252.57	0.673708	3.17	0.08	1.50	4.39
Gabbianello	MV15123_bis	1.76	Max WS	TR30_30min	0.13	252.00	252.03	252.09	252.52	1.500182	3.11	0.04	1.50	5.99
Gabbianello	MV15123_bis	1.76	Max WS	TR30_45min	0.13	252.00	252.03	252.09	252.51	1.491111	3.08	0.04	1.50	5.96
Gabbianello	MV15123_bis	1.76	Max WS	TR30_1H	0.12	252.00	252.03	252.08	252.49	1.558858	3.03	0.04	1.50	6.05
Gabbianello	MV15123_bis	1.76	Max WS	TR30_2H	0.11	252.00	252.03	252.08	252.48	1.575524	3.00	0.04	1.50	6.06
Gabbianello	MV15123_bis	1.70	Max WS	TR200_30min	0.22	251.56	251.91	251.69	251.92	0.000167	0.42	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.70	Max WS	TR200_45min	0.21	251.56	251.91	251.69	251.91	0.000163	0.41	0.52	1.50	0.22
Gabbianello	MV15123_bis	1.70	Max WS	TR200_1H	0.22	251.56	251.91	251.69	251.92	0.000166	0.41	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.70	Max WS	TR200_2H	0.25	251.56	251.94	251.70	251.95	0.000179	0.44	0.57	1.50	0.23
Gabbianello	MV15123_bis	1.70	Max WS	TR30_30min	0.13	251.56	251.83	251.65	251.84	0.000123	0.32	0.41	1.50	0.19
Gabbianello	MV15123_bis	1.70	Max WS	TR30_45min	0.13	251.56	251.83	251.65	251.83	0.000122	0.31	0.40	1.50	0.19
Gabbianello	MV15123_bis	1.70	Max WS	TR30_1H	0.12	251.56	251.82	251.65	251.82	0.000120	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.70	Max WS	TR30_2H	0.11	251.56	251.81	251.64	251.82	0.000119	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.5667*	Max WS	TR200_30min	0.22	251.56	251.91	251.69	251.92	0.000168	0.42	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.5667*	Max WS	TR200_45min	0.21	251.56	251.91	251.69	251.91	0.000163	0.41	0.52	1.50	0.22
Gabbianello	MV15123_bis	1.5667*	Max WS	TR200_1H	0.22	251.56	251.91	251.69	251.92	0.000166	0.41	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.5667*	Max WS	TR200_2H	0.25	251.56	251.94	251.70	251.95	0.000179	0.45	0.57	1.50	0.23
Gabbianello	MV15123_bis	1.5667*	Max WS	TR30_30min	0.13	251.56	251.83	251.65	251.84	0.000123	0.32	0.41	1.50	0.19
Gabbianello	MV15123_bis	1.5667*	Max WS	TR30_45min	0.13	251.56	251.83	251.65	251.83	0.000122	0.31	0.40	1.50	0.19
Gabbianello	MV15123_bis	1.5667*	Max WS	TR30_1H	0.12	251.56	251.82	251.64	251.82	0.000120	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.5667*	Max WS	TR30_2H	0.11	251.56	251.81	251.64	251.82	0.000119	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.4333*	Max WS	TR200_30min	0.22	251.56	251.91	251.69	251.92	0.000168	0.42	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.4333*	Max WS	TR200_45min	0.21	251.56	251.91	251.69	251.91	0.000163	0.41	0.52	1.50	0.22
Gabbianello	MV15123_bis	1.4333*	Max WS	TR200_1H	0.22	251.56	251.91	251.69	251.92	0.000166	0.41	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.4333*	Max WS	TR200_2H	0.25	251.56	251.94	251.70	251.95	0.000179	0.45	0.57	1.50	0.23
Gabbianello	MV15123_bis	1.4333*	Max WS	TR30_30min	0.13	251.56	251.83	251.65	251.84	0.000123	0.31	0.41	1.50	0.19
Gabbianello	MV15123_bis	1.4333*	Max WS	TR30_45min	0.13	251.56	251.83	251.65	251.83	0.000123	0.31	0.40	1.50	0.19
Gabbianello	MV15123_bis	1.4333*	Max WS	TR30_1H	0.12	251.56	251.82	251.65	251.82	0.000120	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.4333*	Max WS	TR30_2H	0.11	251.56	251.81	251.64	251.82	0.000119	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.30	Max WS	TR200_30min	0.22	251.56	251.91	251.69	251.92	0.000168	0.42	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.30	Max WS	TR200_45min	0.21	251.56	251.91	251.69	251.91	0.000163	0.41	0.52	1.50	0.22
Gabbianello	MV15123_bis	1.30	Max WS	TR200_1H	0.22	251.56	251.91	251.69	251.92	0.000167	0.41	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.30	Max WS	TR200_2H	0.25	251.56	251.94	251.70	251.95	0.000179	0.45	0.57	1.50	0.23
Gabbianello	MV15123_bis	1.30	Max WS	TR30_30min	0.13	251.56	251.83	251.65	251.84	0.000123	0.31	0.41	1.50	0.19
Gabbianello	MV15123_bis	1.30	Max WS	TR30_45min	0.13	251.56	251.83	251.65	251.83	0.000123	0.31	0.40	1.50	0.19
Gabbianello	MV15123_bis	1.30	Max WS	TR30_1H	0.12	251.56	251.82	251.65	251.82	0.000120	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.30	Max WS	TR30_2H	0.11	251.56	251.81	251.64	251.82	0.000119	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.2	Max WS	TR200_30min	0.22	251.56	251.91		251.92	0.000168	0.42	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.2	Max WS	TR200_45min	0.21	251.56	251.91		251.91	0.000163	0.41	0.52	1.50	0.22
Gabbianello	MV15123_bis	1.2	Max WS	TR200_1H	0.22	251.56	251.91		251.92	0.000167	0.41	0.53	1.50	0.22
Gabbianello	MV15123_bis	1.2	Max WS	TR200_2H	0.25	251.56	251.94		251.95	0.000179	0.45	0.57	1.50	0.23
Gabbianello	MV15123_bis	1.2	Max WS	TR30_30min	0.13	251.56	251.83		251.84	0.000123	0.31	0.41	1.50	0.19
Gabbianello	MV15123_bis	1.2	Max WS	TR30_45min	0.13	251.56	251.83		251.83	0.000123	0.31	0.40	1.50	0.19
Gabbianello	MV15123_bis	1.2	Max WS	TR30_1H	0.12	251.56	251.82		251.82	0.000120	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.2	Max WS	TR30_2H	0.11	251.56	251.81		251.82	0.000119	0.30	0.38	1.50	0.19
Gabbianello	MV15123_bis	1.15			Culvert									
Gabbianello	MV15123_bis	1	Max WS	TR200_30min	0.22	251.53	251.68	251.66	251.73	0.020776	1.01	0.22	1.50	0.85
Gabbianello	MV15123_bis	1	Max WS	TR200_45min	0.21	251.53	251.67	251.66	251.72	0.020512	0.99	0.21	1.50	0.84
Gabbianello	MV15123_bis	1	Max WS	TR200_1H	0.22	251.53	251.67	251.66	251.73	0.020679	1.01	0.22	1.50	0.85
Gabbianello	MV15123_bis	1	Max WS	TR200_2H	0.25	251.53	251.69	251.67	251.75	0.021836	1.08	0.24	1.50	0.87
Gabbianello	MV15123_bis	1	Max WS	TR30_30min	0.13	251.53	251.64	251.62	251.67	0.017644	0.79	0.16	1.50	0.76
Gabbianello	MV15123_bis	1	Max WS	TR30_45min	0.13	251.53	251.64	251.62	251.67	0.017580	0.78	0.16	1.50	0.76
Gabbianello	MV15123_bis	1	Max WS	TR30_1H	0.12	251.53	251.63	251.62	251.66	0.017106	0.75	0.15	1.50	0.75
Gabbianello	MV15123_bis	1	Max WS	TR30_2H	0.11	251.53	251.63	251.61	251.66	0.016904	0.74	0.15	1.50	0.74
Gabbianello	MV15123_bis	0.98889*	Max WS	TR200_30min	0.22	251.53	251.67	251.66	251.72	0.020539	1.07	0.21	1.50	0.92
Gabbianello	MV15123_bis	0.98889*	Max WS	TR200_45min	0.21	251.53	251.66	251.65	251.72	0.020227	1.04	0.20	1.50	0.91
Gabbianello	MV15123_bis	0.98889*	Max WS	TR200_1H	0.22	251.53	251.66	251.66	251.72	0.020468	1.06	0.21	1.50	0.92
Gabbianello	MV15123_bis	0.98889*	Max WS	TR200_2H	0.25	251.53	251.68	251.67	251.74	0.021320	1.14	0.22	1.50	0.94
Gabbianello	MV15123_bis	0.98889*	Max WS	TR30_30min	0.13	251.53	251.63	251.62	251.66	0.017726	0.83	0.15	1.50	0.83
Gabbianello	MV15123_bis	0.98889*	Max WS	TR30_45min	0.13	251.53	251.63	251.62	251.66	0.017693	0.83	0.15	1.50	0.83

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Gabbianello	MV15123_bis	0.98889*	Max WS	TR30_1H	0.12	251.53	251.62	251.61	251.66	0.017180	0.80	0.15	1.50	0.82
Gabbianello	MV15123_bis	0.98889*	Max WS	TR30_2H	0.11	251.53	251.62	251.61	251.65	0.017037	0.79	0.14	1.50	0.81
Gabbianello	MV15123_bis	0.97778*	Max WS	TR200_30min	0.22	251.52	251.66	251.65	251.72	0.020639	1.12	0.20	1.50	0.98
Gabbianello	MV15123_bis	0.97778*	Max WS	TR200_45min	0.21	251.52	251.65	251.65	251.71	0.020411	1.09	0.19	1.50	0.97
Gabbianello	MV15123_bis	0.97778*	Max WS	TR200_1H	0.22	251.52	251.65	251.65	251.72	0.020590	1.11	0.20	1.50	0.98
Gabbianello	MV15123_bis	0.97778*	Max WS	TR200_2H	0.25	251.52	251.67	251.67	251.74	0.021193	1.18	0.21	1.50	1.00
Gabbianello	MV15123_bis	0.97778*	Max WS	TR30_30min	0.13	251.52	251.62	251.61	251.66	0.018198	0.88	0.15	1.50	0.90
Gabbianello	MV15123_bis	0.97778*	Max WS	TR30_45min	0.13	251.52	251.62	251.61	251.66	0.018202	0.87	0.14	1.50	0.90
Gabbianello	MV15123_bis	0.97778*	Max WS	TR30_1H	0.12	251.52	251.62	251.61	251.65	0.017603	0.84	0.14	1.50	0.88
Gabbianello	MV15123_bis	0.97778*	Max WS	TR30_2H	0.11	251.52	251.61	251.61	251.65	0.017512	0.83	0.14	1.50	0.88
Gabbianello	MV15123_bis	0.96667*	Max WS	TR200_30min	0.22	251.52	251.65	251.65	251.72	0.019544	1.17	0.19	1.50	1.06
Gabbianello	MV15123_bis	0.96667*	Max WS	TR200_45min	0.21	251.52	251.64	251.65	251.71	0.019417	1.15	0.18	1.50	1.05
Gabbianello	MV15123_bis	0.96667*	Max WS	TR200_1H	0.22	251.52	251.65	251.65	251.71	0.019383	1.16	0.19	1.50	1.05
Gabbianello	MV15123_bis	0.96667*	Max WS	TR200_2H	0.25	251.52	251.66	251.66	251.74	0.019946	1.24	0.20	1.50	1.07
Gabbianello	MV15123_bis	0.96667*	Max WS	TR30_30min	0.13	251.52	251.61	251.61	251.66	0.017552	0.93	0.14	1.50	0.97
Gabbianello	MV15123_bis	0.96667*	Max WS	TR30_45min	0.13	251.52	251.61	251.61	251.65	0.017598	0.92	0.14	1.50	0.97
Gabbianello	MV15123_bis	0.96667*	Max WS	TR30_1H	0.12	251.52	251.61	251.61	251.65	0.017137	0.89	0.13	1.50	0.96
Gabbianello	MV15123_bis	0.96667*	Max WS	TR30_2H	0.11	251.52	251.61	251.60	251.64	0.016932	0.87	0.13	1.50	0.95
Gabbianello	MV15123_bis	0.95556*	Max WS	TR200_30min	0.22	251.52	251.64	251.65	251.71	0.019578	1.23	0.18	1.50	1.14
Gabbianello	MV15123_bis	0.95556*	Max WS	TR200_45min	0.21	251.52	251.63	251.64	251.71	0.019560	1.21	0.17	1.50	1.13
Gabbianello	MV15123_bis	0.95556*	Max WS	TR200_1H	0.22	251.52	251.64	251.64	251.71	0.019442	1.22	0.18	1.50	1.13
Gabbianello	MV15123_bis	0.95556*	Max WS	TR200_2H	0.25	251.52	251.65	251.66	251.73	0.019732	1.30	0.20	1.50	1.15
Gabbianello	MV15123_bis	0.95556*	Max WS	TR30_30min	0.13	251.52	251.60	251.61	251.65	0.017900	0.98	0.13	1.50	1.06
Gabbianello	MV15123_bis	0.95556*	Max WS	TR30_45min	0.13	251.52	251.60	251.61	251.65	0.017801	0.97	0.13	1.50	1.05
Gabbianello	MV15123_bis	0.95556*	Max WS	TR30_1H	0.12	251.52	251.60	251.60	251.64	0.017446	0.94	0.12	1.50	1.04
Gabbianello	MV15123_bis	0.95556*	Max WS	TR30_2H	0.11	251.52	251.60	251.60	251.64	0.017287	0.92	0.12	1.50	1.03
Gabbianello	MV15123_bis	0.94444*	Max WS	TR200_30min	0.22	251.51	251.63	251.64	251.71	0.017144	1.28	0.17	1.50	1.21
Gabbianello	MV15123_bis	0.94444*	Max WS	TR200_45min	0.21	251.51	251.62	251.64	251.71	0.017198	1.26	0.17	1.50	1.20
Gabbianello	MV15123_bis	0.94444*	Max WS	TR200_1H	0.22	251.51	251.63	251.64	251.71	0.017188	1.27	0.17	1.50	1.21
Gabbianello	MV15123_bis	0.94444*	Max WS	TR200_2H	0.25	251.51	251.64	251.65	251.73	0.017093	1.35	0.19	1.50	1.21
Gabbianello	MV15123_bis	0.94444*	Max WS	TR30_30min	0.13	251.51	251.60	251.60	251.65	0.015897	1.02	0.13	1.50	1.13
Gabbianello	MV15123_bis	0.94444*	Max WS	TR30_45min	0.13	251.51	251.60	251.60	251.65	0.015830	1.01	0.12	1.50	1.12
Gabbianello	MV15123_bis	0.94444*	Max WS	TR30_1H	0.12	251.51	251.59	251.60	251.64	0.015414	0.98	0.12	1.50	1.10
Gabbianello	MV15123_bis	0.94444*	Max WS	TR30_2H	0.11	251.51	251.59	251.60	251.64	0.015322	0.96	0.12	1.50	1.10
Gabbianello	MV15123_bis	0.93333*	Max WS	TR200_30min	0.22	251.51	251.62	251.64	251.71	0.016102	1.33	0.17	1.50	1.28
Gabbianello	MV15123_bis	0.93333*	Max WS	TR200_45min	0.21	251.51	251.62	251.64	251.70	0.016221	1.31	0.16	1.50	1.28
Gabbianello	MV15123_bis	0.93333*	Max WS	TR200_1H	0.22	251.51	251.62	251.64	251.71	0.016163	1.33	0.16	1.50	1.28
Gabbianello	MV15123_bis	0.93333*	Max WS	TR200_2H	0.25	251.51	251.63	251.65	251.73	0.015864	1.40	0.18	1.50	1.28
Gabbianello	MV15123_bis	0.93333*	Max WS	TR30_30min	0.13	251.51	251.59	251.60	251.65	0.015352	1.07	0.12	1.50	1.21
Gabbianello	MV15123_bis	0.93333*	Max WS	TR30_45min	0.13	251.51	251.59	251.60	251.65	0.015314	1.06	0.12	1.50	1.21
Gabbianello	MV15123_bis	0.93333*	Max WS	TR30_1H	0.12	251.51	251.59	251.60	251.64	0.015007	1.03	0.11	1.50	1.19
Gabbianello	MV15123_bis	0.93333*	Max WS	TR30_2H	0.11	251.51	251.58	251.59	251.64	0.014767	1.01	0.11	1.50	1.18
Gabbianello	MV15123_bis	0.92222*	Max WS	TR200_30min	0.22	251.51	251.61	251.64	251.71	0.012934	1.38	0.16	1.50	1.35
Gabbianello	MV15123_bis	0.92222*	Max WS	TR200_45min	0.21	251.51	251.61	251.63	251.70	0.013085	1.36	0.15	1.50	1.35
Gabbianello	MV15123_bis	0.92222*	Max WS	TR200_1H	0.22	251.51	251.61	251.63	251.71	0.013007	1.37	0.16	1.50	1.35
Gabbianello	MV15123_bis	0.92222*	Max WS	TR200_2H	0.25	251.51	251.62	251.65	251.73	0.012623	1.44	0.18	1.50	1.34
Gabbianello	MV15123_bis	0.92222*	Max WS	TR30_30min	0.13	251.51	251.58	251.60	251.65	0.012728	1.12	0.11	1.50	1.29
Gabbianello	MV15123_bis	0.92222*	Max WS	TR30_45min	0.13	251.51	251.58	251.60	251.64	0.012562	1.11	0.11	1.50	1.28
Gabbianello	MV15123_bis	0.92222*	Max WS	TR30_1H	0.12	251.51	251.58	251.59	251.64	0.012366	1.07	0.11	1.50	1.27
Gabbianello	MV15123_bis	0.92222*	Max WS	TR30_2H	0.11	251.51	251.58	251.59	251.63	0.012206	1.05	0.11	1.50	1.26
Gabbianello	MV15123_bis	0.91111*	Max WS	TR200_30min	0.22	251.50	251.61	251.63	251.71	0.010540	1.40	0.16	1.50	1.38
Gabbianello	MV15123_bis	0.91111*	Max WS	TR200_45min	0.21	251.50	251.61	251.63	251.70	0.010575	1.38	0.15	1.50	1.37
Gabbianello	MV15123_bis	0.91111*	Max WS	TR200_1H	0.22	251.50	251.61	251.63	251.71	0.010604	1.39	0.16	1.50	1.38
Gabbianello	MV15123_bis	0.91111*	Max WS	TR200_2H	0.25	251.50	251.62	251.65	251.73	0.010242	1.46	0.17	1.50	1.37
Gabbianello	MV15123_bis	0.91111*	Max WS	TR30_30min	0.13	251.50	251.58	251.59	251.64	0.010430	1.14	0.11	1.50	1.32
Gabbianello	MV15123_bis	0.91111*	Max WS	TR30_45min	0.13	251.50	251.58	251.59	251.64	0.010299	1.12	0.11	1.50	1.32
Gabbianello	MV15123_bis	0.91111*	Max WS	TR30_1H	0.12	251.50	251.57	251.59	251.63	0.010174	1.09	0.11	1.50	1.30
Gabbianello	MV15123_bis	0.91111*	Max WS	TR30_2H	0.11	251.50	251.57	251.59	251.63	0.010047	1.07	0.11	1.50	1.29
Gabbianello	MV15123_bis	0.9	Max WS	TR200_30min	0.22	251.50	251.60	251.63	251.71	0.006934	1.41	0.16	1.50	1.39
Gabbianello	MV15123_bis	0.9	Max WS	TR200_45min	0.21	251.50	251.60	251.63	251.70	0.006962	1.39	0.15	1.50	1.39
Gabbianello	MV15123_bis	0.9	Max WS	TR200_1H	0.22	251.50	251.60	251.63	251.70	0.006978	1.41	0.15	1.50	1.40
Gabbianello	MV15123_bis	0.9	Max WS	TR200_2H	0.25	251.50	251.62	251.64	251.73	0.006720	1.47	0.17	1.50	1.38
Gabbianello	MV15123_bis	0.9	Max WS	TR30_30min	0.13	251.50	251.57	251.59	251.64	0.006947	1.15	0.11	1.50	1.35
Gabbianello	MV15123_bis	0.9	Max WS	TR30_45min	0.13	251.50	251.57	251.59	251.64	0.006857	1.14	0.11	1.50	1.34
Gabbianello	MV15123_bis	0.9	Max WS	TR30_1H	0.12	251.50	251.57	251.59	251.63	0.006786	1.10	0.11	1.50	1.33
Gabbianello	MV15123_bis	0.9	Max WS	TR30_2H	0.11	251.50	251.57	251.58	251.63	0.006708	1.08	0.10	1.50	1.32
		O-E1			Lat Struct									

HEC-RAS Profile: Max WS

River	Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
					(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
Gabbianello	MV15123_bis	2.99	Max WS	TR200_30min	0.10	-0.08	0.22	-0.08		42.77	0.09	0.03	253.01	252.74	252.73	252.46	252.45
Gabbianello	MV15123_bis	2.99	Max WS	TR200_45min	0.10	-0.09	0.21	-0.09		42.77	0.09	0.03	253.01	252.73	252.72	252.44	252.44
Gabbianello	MV15123_bis	2.99	Max WS	TR200_1H	0.10	-0.09	0.22	-0.09		42.77	0.10	0.04	253.01	252.73	252.73	252.45	252.45
Gabbianello	MV15123_bis	2.99	Max WS	TR200_2H	0.10	-0.11	0.25	-0.11		42.77	0.10	0.04	253.01	252.75	252.75	252.49	252.48
Gabbianello	MV15123_bis	2.99	Max WS	TR30_30min	0.10	-0.02	0.13	-0.02		14.91	0.05	0.02	253.01	252.70	252.69	252.35	252.34
Gabbianello	MV15123_bis	2.99	Max WS	TR30_45min	0.10	-0.02	0.13	-0.02		9.71	0.06	0.04	253.01	252.70	252.69	252.34	252.34
Gabbianello	MV15123_bis	2.99	Max WS	TR30_1H	0.10	-0.01	0.12	-0.01		10.27	0.04	0.02	253.01	252.69	252.68	252.33	252.32
Gabbianello	MV15123_bis	2.99	Max WS	TR30_2H	0.10	-0.01	0.11	-0.01		9.69	0.04	0.02	253.01	252.69	252.67	252.32	252.32
Gabbianello	MV15123_bis	2.98	Max WS	TR200_30min	0.10	-0.02	0.22	-0.02		16.85	0.09	0.02	253.00	252.74	252.73	252.46	252.45
Gabbianello	MV15123_bis	2.98	Max WS	TR200_45min	0.10	-0.02	0.21	-0.02		18.89	0.11	0.02	253.00	252.73	252.72	252.44	252.44
Gabbianello	MV15123_bis	2.98	Max WS	TR200_1H	0.10	-0.03	0.22	-0.03		23.31	0.11	0.02	253.00	252.73	252.73	252.45	252.45
Gabbianello	MV15123_bis	2.98	Max WS	TR200_2H	0.10	-0.03	0.25	-0.03		25.56	0.12	0.02	253.00	252.75	252.75	252.49	252.48
Gabbianello	MV15123_bis	2.98	Max WS	TR30_30min	0.10	0.00	0.13	0.00		4.17	0.01	0.01	253.00	252.70	252.69	252.35	252.34
Gabbianello	MV15123_bis	2.98	Max WS	TR30_45min	0.10	-0.01	0.13	-0.01		4.72	0.07	0.03	253.00	252.70	252.69	252.34	252.34
Gabbianello	MV15123_bis	2.98	Max WS	TR30_1H	0.10	-0.01	0.12	-0.01		5.13	0.06	0.02	253.00	252.69	252.68	252.33	252.32
Gabbianello	MV15123_bis	2.98	Max WS	TR30_2H	0.10	-0.01	0.11	-0.01		9.87	0.07	0.01	253.00	252.69	252.67	252.32	252.32
		O-E1	Max WS	TR200_30min	0.00	0.00	0.00	0.00					254.82	0.00	0.00	0.00	0.00
		O-E1	Max WS	TR200_45min	0.00	0.00	0.00	0.00					254.82	0.00	0.00	0.00	0.00
		O-E1	Max WS	TR200_1H	0.00	0.00	0.00	0.00					254.82	0.00	0.00	0.00	0.00
		O-E1	Max WS	TR200_2H	0.00	0.00	0.00	0.00					254.82	0.00	0.00	0.00	0.00
		O-E1	Max WS	TR30_30min	0.00	0.00	0.00	0.00					254.82	0.00	0.00	0.00	0.00
		O-E1	Max WS	TR30_45min	0.00	0.00	0.00	0.00					254.82	0.00	0.00	0.00	0.00
		O-E1	Max WS	TR30_1H	0.00	0.00	0.00	0.00					254.82	0.00	0.00	0.00	0.00
		O-E1	Max WS	TR30_2H	0.00	0.00	0.00	0.00					254.82	0.00	0.00	0.00	0.00