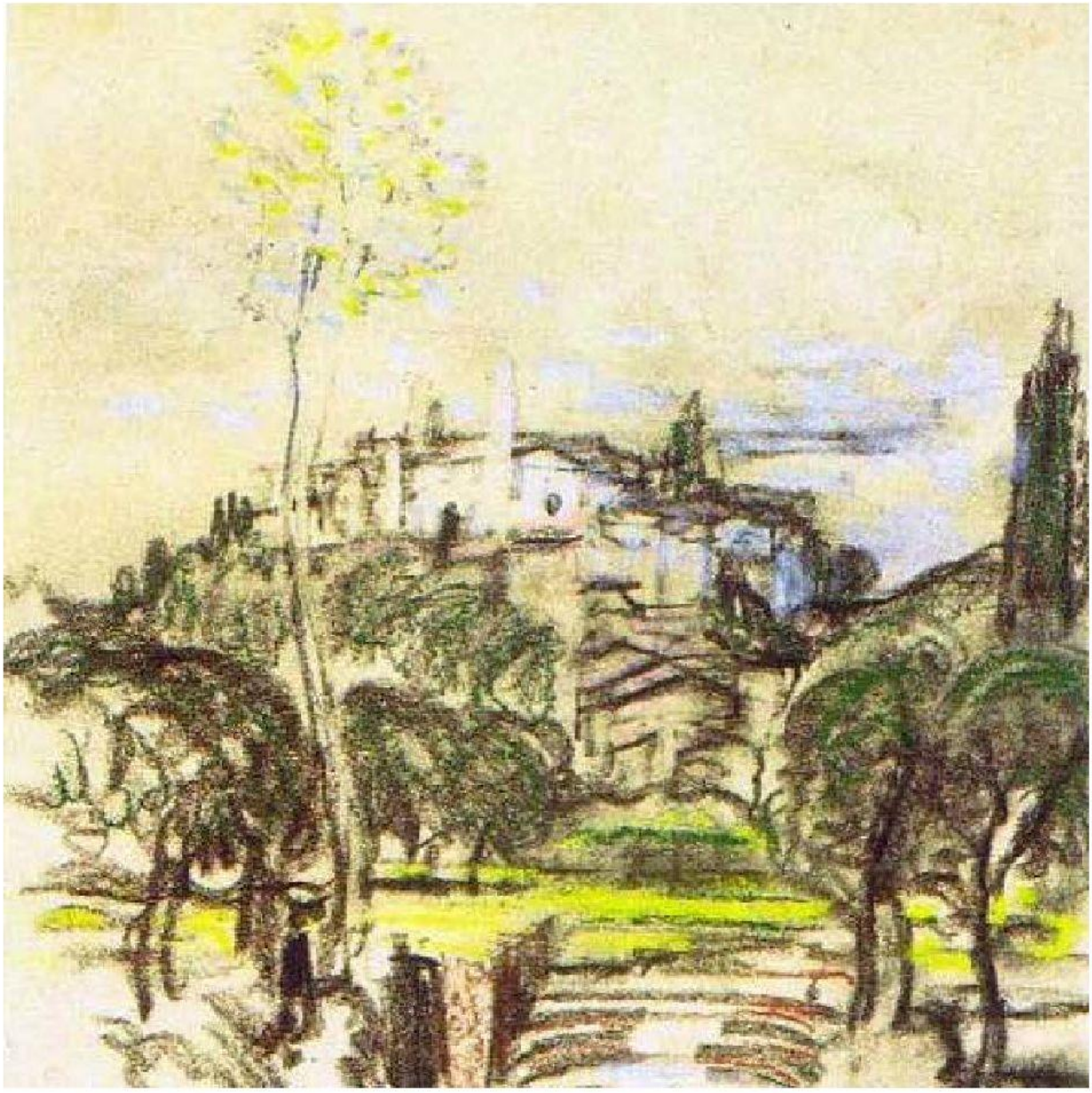
Regione Toscana Provincia di Siena

COMUNE DI TORRITA DI SIENA

VARIANTE N. 1 REGOLAMENTO URBANISTICO



Dicembre 2016

RU var 1

RELAZIONE IDROLOGICO-IDRAULICA

Adozione Delibera C.C. n. ..... del.....

Approvazione Delibera C.C. n. ..... del.....

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1 Introduzione

La presente relazione documenta ed illustra lo studio idrologico – idraulico redatto per conto del Comune di Torrita di Siena a supporto della variante al *Regolamento Urbanistico*.

In particolare, nell'ambito dell'indagine svolta, sono state condotte analisi e verifiche di sussistenza del rischio idraulico di allagamento in relazione alle previsioni del nuovo strumento urbanistico in prossimità dei seguenti corsi d'acqua:

- *Torrente Foenna*
- *Fosso Baregno*
- *Canale Fuga di Torrita*
- *Torrente Galegno*
- *Canale Acornio*
- *Fosso Maramocco*
- *Fosso dei Lavatoi*
- *Torrente Doccia*

1.1 Contesto idrografico e zona di indagine

Il reticolo idrografico che drena il territorio comunale di Torrita di Siena è per gran parte, almeno nel settore pedecollinare e di pianura, il risultato di una sistematica e lunga azione antropica di bonifica e di regolazione delle acque, attuata in più riprese nel corso degli ultimi cinque secoli. La bonifica della antica palude della Valdichiana, la quale conobbe la sua massima espansione agli inizi del cinquecento, si è sostanzialmente conclusa all'inizio degli anni quaranta del secolo scorso.

Oggi il territorio è caratterizzato da una netta separazione tra i cosiddetti bacini e canali di "acque alte", provenienti dal sistema collinare e pedecollinare e i cosiddetti bacini e canali di "acque basse" che raccolgono i contributi meteorici delle circostanti aree di pianura.

I canali di acque alte, grazie alla maggiore pendenza del fondo, sono in grado di produrre e convogliare sensibili quantità di trasporto solido e, attraversando le aree di fondovalle con arginature di norma pensili, recapitano i loro contributi in altri canali di acque alte, laddove il "corpo" delle acque di piena è dotato di sufficiente energia per mobilitare anche i contributi solidi recapitati dai canali allaccianti delle acque alte.

I canali di acque basse sono invece normalmente dotati di minor pendenza motrice e non sono in grado di movimentare il trasporto solido al fondo, sono inoltre di solito

soggiacenti alle sommità arginali dei canali di acque alte che attraversano il fondovalle e quindi risultano impossibilitati a recapitare le loro portate direttamente in questi e, quando i loro alvei si intersecano, i canali di acque basse superano l'intersezione sottopassando il canale di acque alte mediante il classico sistema storicamente denominato della "botte a sifone".

Le problematiche di carattere idraulico connesse alla tipologia di reticolo idrografico sopra descritto sono essenzialmente dovute ai seguenti aspetti:

- i corsi d'acqua, dopo aver percorso a forte pendenza i loro tratti di monte, raggiungono la zona pedecollinare e di pianura con sensibili riduzioni di pendenza, inserendosi in contesti urbanizzati;

- sezioni idrauliche di norma insufficienti a smaltire portate di progetto caratterizzate da tempo di ritorno duecentennale e, per alcuni corsi d'acqua, anche da tempi di ritorno poco più che ordinari (TR = 30 anni);

- presenza di strutture di attraversamento o tratti tombati di dimensioni non idonee e pertanto origine di localizzati fenomeni esondativi in occasione di eventi di piena eccezionale;

- presenza di canali facenti parte del sistema di drenaggio di "acque basse" caratterizzati da basse pendenze ed estesi bacini idrografici afferenti, frequentemente causa di fenomeni di esondazione o ristagno.

1.2 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.

Laddove alcune previsioni urbanistiche risulteranno soggette a rischio idraulico, conformemente al disposto normativo vigente, saranno condizionate alla realizzazione di opere di riduzione del rischio che saranno specificatamente ubicate e dimensionate al prescritto mero livello della fattibilità tecnica.

Per poter redigere le carte delle aree allagabili, è stato necessario valutare preliminarmente gli idrogrammi di piena attesi nei tratti dei corsi d'acqua esaminati corrispondenti ad eventi meteorici estremi (rispettivamente con tempo di ritorno trentennale e duecentennale) di durata critica tale da massimizzare la portata al colmo nelle sezioni di interesse.

In base alle diverse configurazioni idrauliche, geomorfologiche e territoriali 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, diversificarti al fine di mantenere il più possibile un livello di significatività omogeneo dei risultati e di individuare il tasso di degrado delle stime.

A tale scopo è stato utilizzato il software HEC-RAS vers. 4.1, nella opzione relativa al regime di moto vario, con l'introduzione di idonee "*lateral structures"*, in modo da poter tenere in conto gli effetti di *"laminazione della portata al colmo di piena"* legati alle aree di naturale esondazione del corso d'acqua.

Per sviluppare un'aderente simulazione dei fenomeni di esondazione e dei deflussi extra alveo (per tutte le aste idrografiche esaminate e per i tempi di ritorno T_r = 30 e 200), anni sono state effettuate verifiche idrauliche in regime di moto vario monodimensionale per la propagazione in alveo della corrente di piena, mentre per la propagazione delle correnti extra-alveo, è stata condotta un'analisi in moto vario facendo ricorso ad una modellazione idraulica puramente 2-D condotta mediante il software FLO-2D ver. Pro.

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[1] 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:

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.

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

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, regionale e comunale ed in particolare alle seguenti norme:

- D.P.C.M. 05.11.1999 Piano Stralcio relativo alla Riduzione del Rischio Idraulico del Bacino del fiume Arno. (GU n. 226 del 22/12/1999);
- L.R. n. 1/2005 e s.m.i. e Regolamenti attuativi e in particolare il Regolamento n. 53/R di cui al DPGR 25.10.11;

2.1 Adempimenti rispetto D.P.C.M. 05.11.1999 "Piano stralcio - Riduzione del rischio idraulico nel bacino del fiume Arno".

Il "Piano stralcio – Riduzione del rischio Idraulico nel bacino del fiume Arno" prevede nel territorio del Comune di Torrita di Siena un intervento di tipo A in località Chianacce. Poichè il predetto intervento non "interferisce" con la Variante al R.U. non sussistono limitazioni alle attività di trasformazione del territorio ai sensi del D.P.C.M. 05.11.1999.

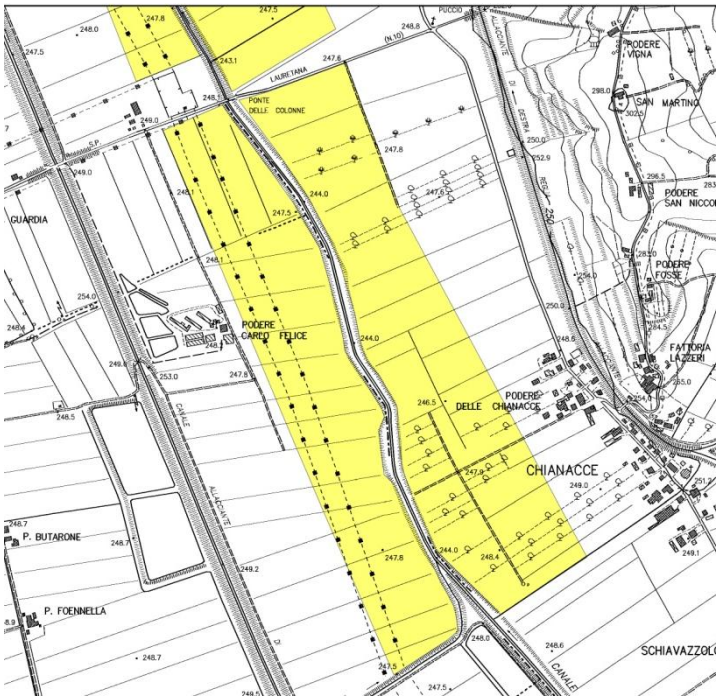


Figura 2-1: Piano di Bacino del fiume Arno - Piano Stralcio Rischio Idraulico. Stralcio n°879

In Figura 2-2 è riportato invece un estratto della "Carta guida delle aree allagate". Le previsioni urbanistiche ricadenti nelle aree rappresentate nella "Carta guida delle aree allagate", sono soggette alle limitazioni delle attività di trasformazione del territorio disposte dalla Norma N. 6 della normativa di piano:

"...omissis...

Fatto salvo quanto stabilito nelle norme 2 e 3, le opere che comportano trasformazioni edilizie e urbanistiche, ricadenti nelle aree rappresentate nella «Carta guida delle aree allagate», potranno essere realizzate a condizione che venga documentato dal proponente ed accertato dall'Autorità amministrativa competente al rilascio dell'autorizzazione il non incremento del rischio idraulico da esse determinabile o che siano individuati gli interventi necessari alle mitigazione di tale rischio, da realizzarsi contestualmente all'esecuzione delle opere richieste".

Nel rispetto delle prescrizioni indicate nella succitata Norma N. 6, saranno descritti gli interventi di mitigazione del rischio idraulico che dovranno essere realizzati contestualmente alle attività di trasformazione del territorio.

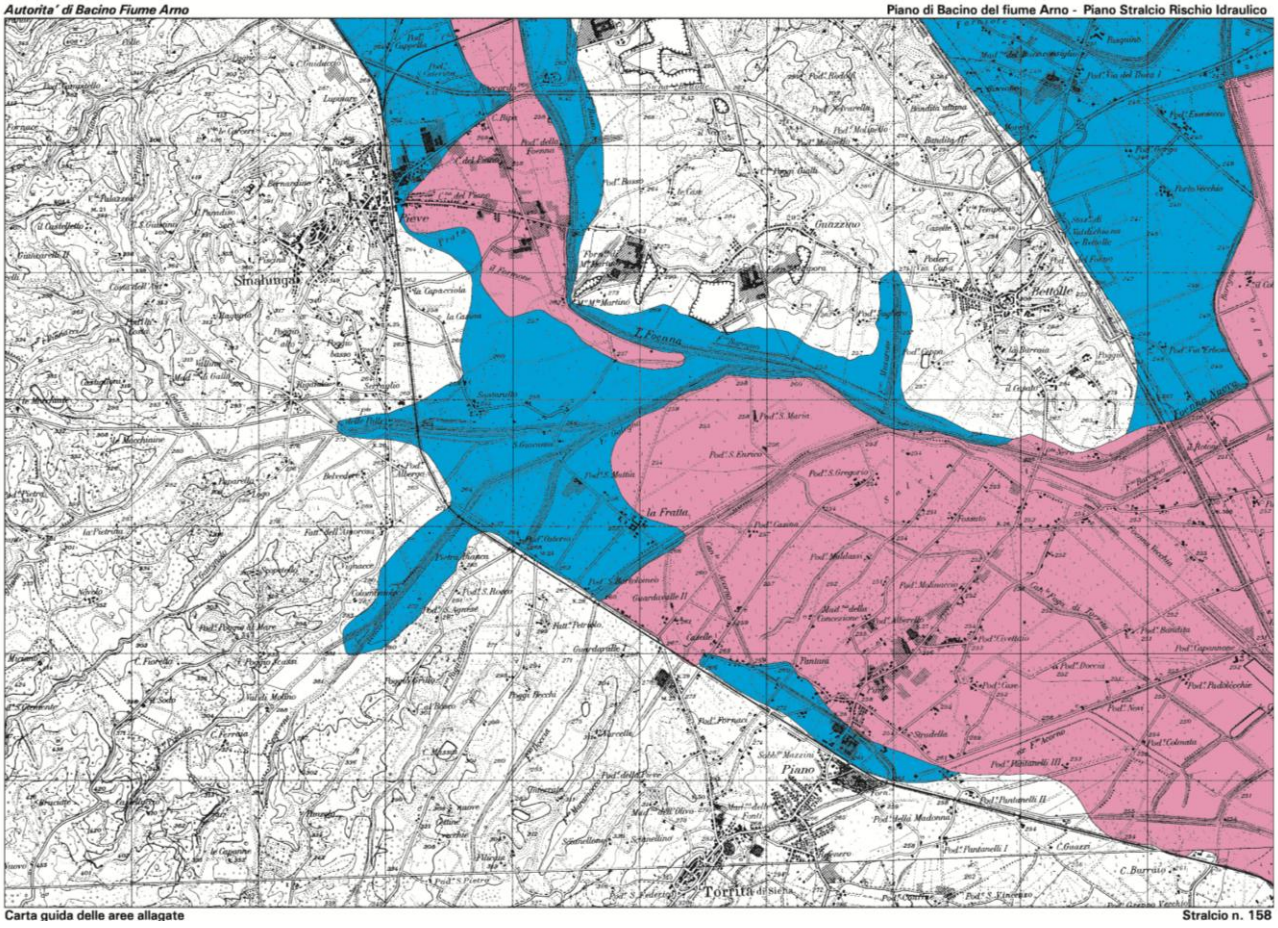


Figura 2-2: Carta guida delle aree allagate. Piano stralcio "Riduzione del rischio Idraulico nel bacino del fiume Arno Stralcio n°58.

2.2 Adempimenti rispetto alla D.P.G.R. del 25 Ottobre 2011, n. 53/R. "Regolamento di attuazione dell'art.62 della L.R. 3 Gennaio 2005, n.1 (Norme per il governo del territorio) in materia di indagini geologiche.

Con D.P.G.R. del 25 Ottobre 2011, n. 53/R è stato approvato il "Regolamento di attuazione dell'art.62 della L.R. 3 Gennaio 2005 n.1 (Norme per il governo del territorio) in materia di indagini geologiche".

Poiché la propensione alla allagabilità comporta diverse condizioni d'uso del territorio, conformemente a quanto prescritto nelle Direttive per le Indagini Geologico-Tecniche (Allegato A), sono state definite, per gli ambiti territoriali potenzialmente interessati da previsioni insediative ed infrastrutturali, le aree interessate da allagamenti per eventi con Tr ≤ 30 anni (aree a pericolosità idraulica molto elevata I.4) e le aree interessate da allagamenti per eventi compresi tra 30 <Tr ≤ 200 anni (aree a pericolosità idraulica elevata I.3).

Al punto *3.2.2.1 dei Criteri generali di fattibilità in relazione agli aspetti idraulici* delle Direttive per le Indagini Geologico-Tecniche contenute nel predetto Allegato A, si precisa che nelle situazioni caratterizzate da pericolosità idraulica molto elevata ed elevata è necessario rispettare i seguenti criteri generali:

"a) sono da consentire nuove edificazioni o nuove infrastrutture per le quali sia prevista la preventiva o contestuale realizzazione di interventi strutturali per la riduzione del rischio sui corsi d'acqua o sulle cause dell'insufficiente drenaggio finalizzati alla messa in sicurezza idraulica per eventi con tempi di ritorno di 200 anni;

c) gli interventi di messa in sicurezza, definiti sulla base di studi idrologici e idraulici, non devono aumentare il livello di rischio in altre aree con riferimento anche agli effetti dell'eventuale incremento dei picchi di piena a valle".

Inoltre alla lettera c) del punto 3.2.2.2 del suddetto allegato A si prescrive che

c) gli interventi di messa in sicurezza, definiti sulla base di studi idrologici e idraulici, non devono aumentare il livello di rischio in altre aree con riferimento anche agli effetti dell'eventuale incremento dei picchi di piena a valle. Ai fini dell'incremento del livello di rischio, laddove non siano attuabili interventi strutturali di messa in sicurezza, possono non essere considerati gli interventi urbanistico-edilizi comportanti volumetrie totali sottratte all'esondazione o al ristagno inferiori a 200 metri cubi in caso di bacino sotteso dalla previsione di dimensioni fino ad 1 chilometro quadrato, volumetrie totali sottratte all'esondazione o al ristagno inferiori a 500 metri cubi in caso di bacino sotteso di dimensioni comprese tra 1 e 10 kmq, o volumetrie totali sottratte all'esondazione o al ristagno inferiori a 1000 metri cubi in caso di bacino sotteso di dimensioni superiori a 10 kmq.

Conformemente a quanto previsto al punto 3.2.2, relativamente alle previsioni ricadente in aree a pericolosità idraulica molto elevata (I.4) e a pericolosità idraulica

elevata (I.3) saranno individuati gli interventi che, senza aumentare il livello di rischio in altre aree, consentono la messa in sicurezza idraulica per eventi con tempo di ritorno pari a 200 anni.

Nelle aree a pericolosità idraulica molto elevata (I.4) trova applicazione la L.R. 21/2012.

3 Valutazione degli idrogrammi di piena

3.1 Considerazioni generali

Per individuare le previsioni urbanistiche soggette a rischio idraulico 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.

La stima degli idrogrammi di progetto associati ai diversi tempi di ritorno per i bacini idrografici in esame, che risultano essere non strumentati, è stata eseguita mediante una modellistica idrologica afflussi-deflussi di tipo semidistribuito e 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 tre 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 ed, infine, il modello di Muskingum-Cunge (Cunge, 1969) per il trasferimento dell'onda di piena lungo i corsi d'acqua.

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);
- ragguaglio all'area delle LSPP;
- determinazione dello ietogramma di progetto: scelta della durata critica dell'evento e della distribuzione temporale delle precipitazioni;
- stima della pioggia effettiva;
- 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) e operazione di ragguaglio all'area;

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 UNI FI). I nuovi 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).

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.

Solitamente risulta quindi opportuno introdurre un coefficiente riduttivo da applicare alle altezze di pioggia che prende il nome di coefficiente di ragguaglio areale, tuttavia nel presente studio si è cautelativamente assunto di non introdurre il predetto coefficiente.

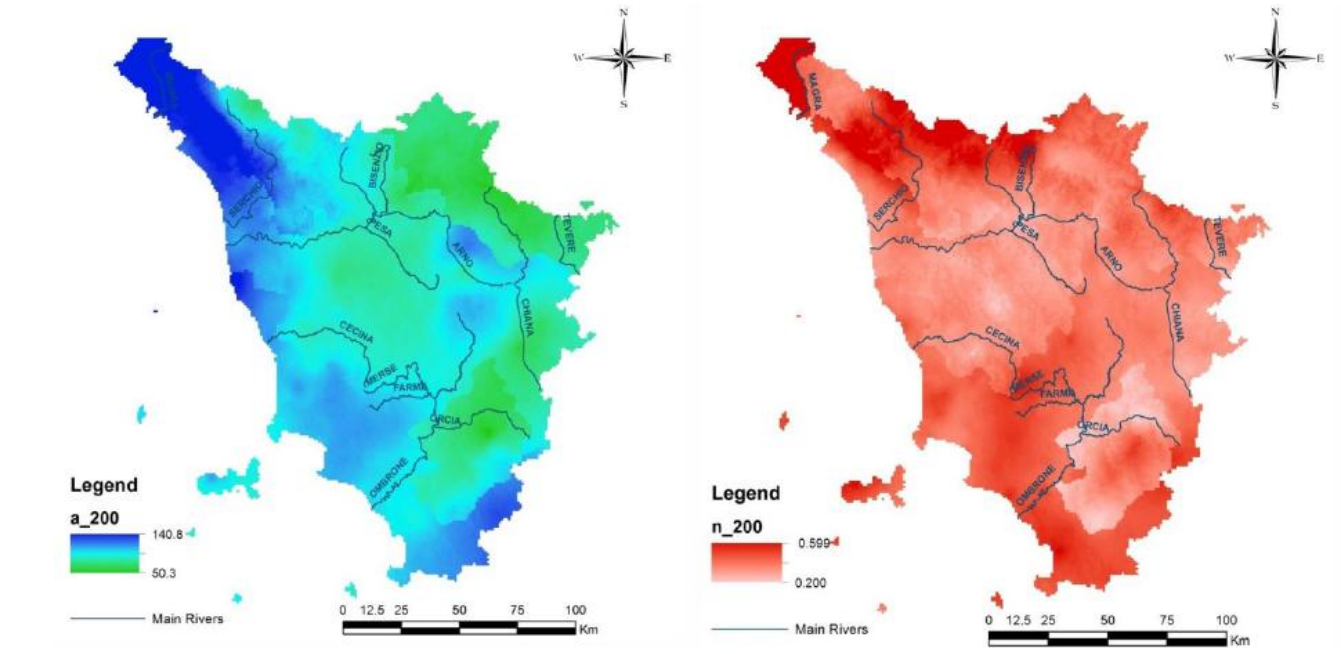


Figura 3-2: Spazializzazione sull'intera regione dei parametri "a" (a sinistra) e "n" (a destra) della Linea Segnalatrice di Possibilità Pluviometrica LSPP per il Tempo di ritorno 200 anni.

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 (**Errore. L'origine riferimento non è stata trovata.**).

Successivamente sono stati quindi calcolati per i tempi di ritorno invastigati (30 e 200 anni), i valori dei parametri *a* e *n* delle LSPP.

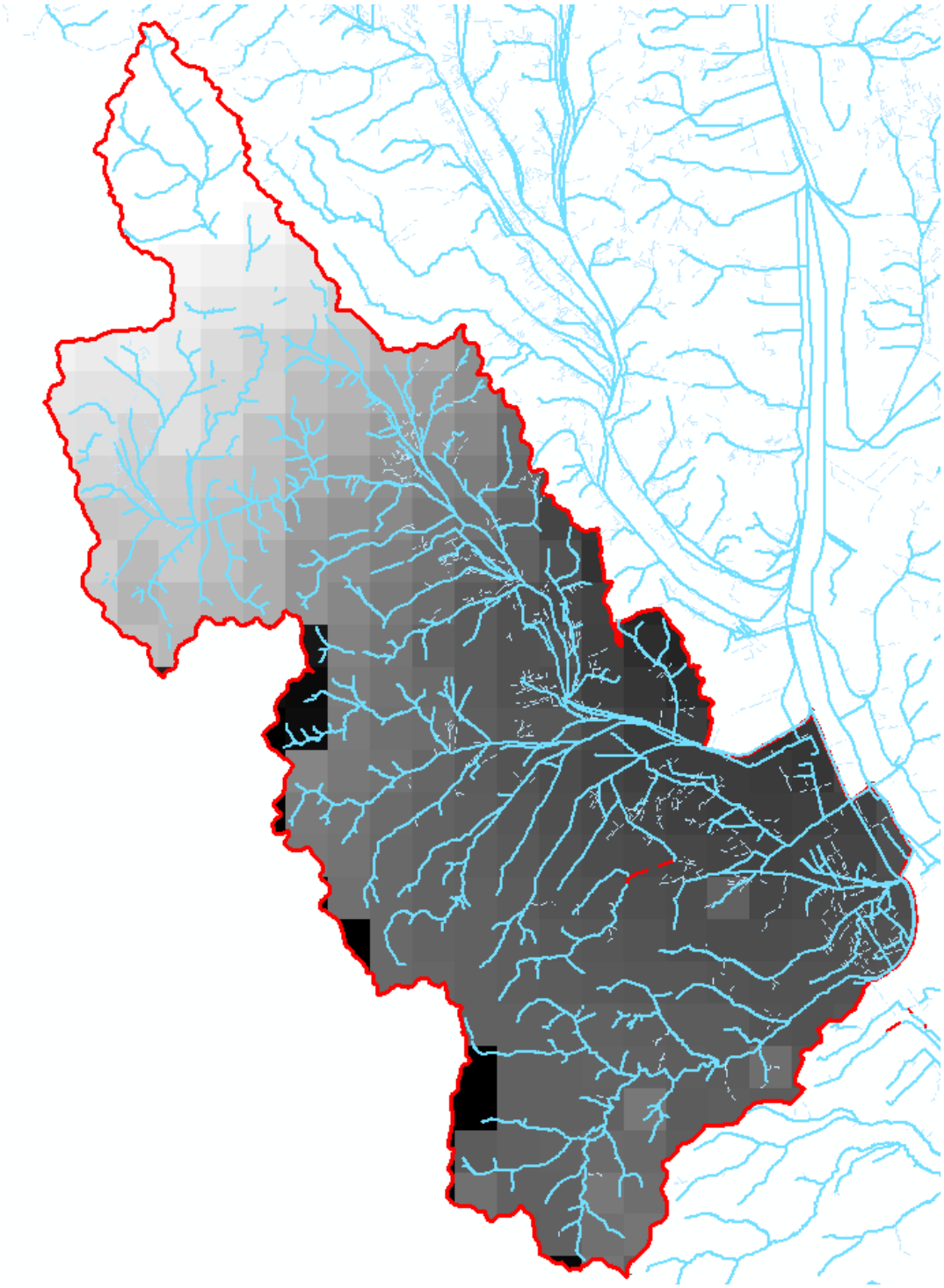


Figura 3-3: Individuazione delle porzioni Ovest (perimetro arancio) ed Est (perimetro giallo) dei bacini idrografici e stima dei parametri delle LSPP a partire dai dati spaziali in formato raster forniti dalla Regione Toscana.

Nella tabella seguente si riportano i parametri delle curve di possibilità pluviometrica caratteristici dei corsi d'acqua di interesse.

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

TR 30 anni *(d > 0.5 ore)*		***TR 200 anni*** *(d > 0.5 ore)*	
a	*n*	*a*	*n*
48.57	*0.23*	*67.40*	*0.29*

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. E' 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, per ietogrammi di pioggia uniforme e per un solo tempo di ritorno, essendo la durata critica praticamente indipendente da TR. Come si può vedere dalla Figura 3-4, la durata che massimizza la portata al colmo, pari a 4 ore, 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).

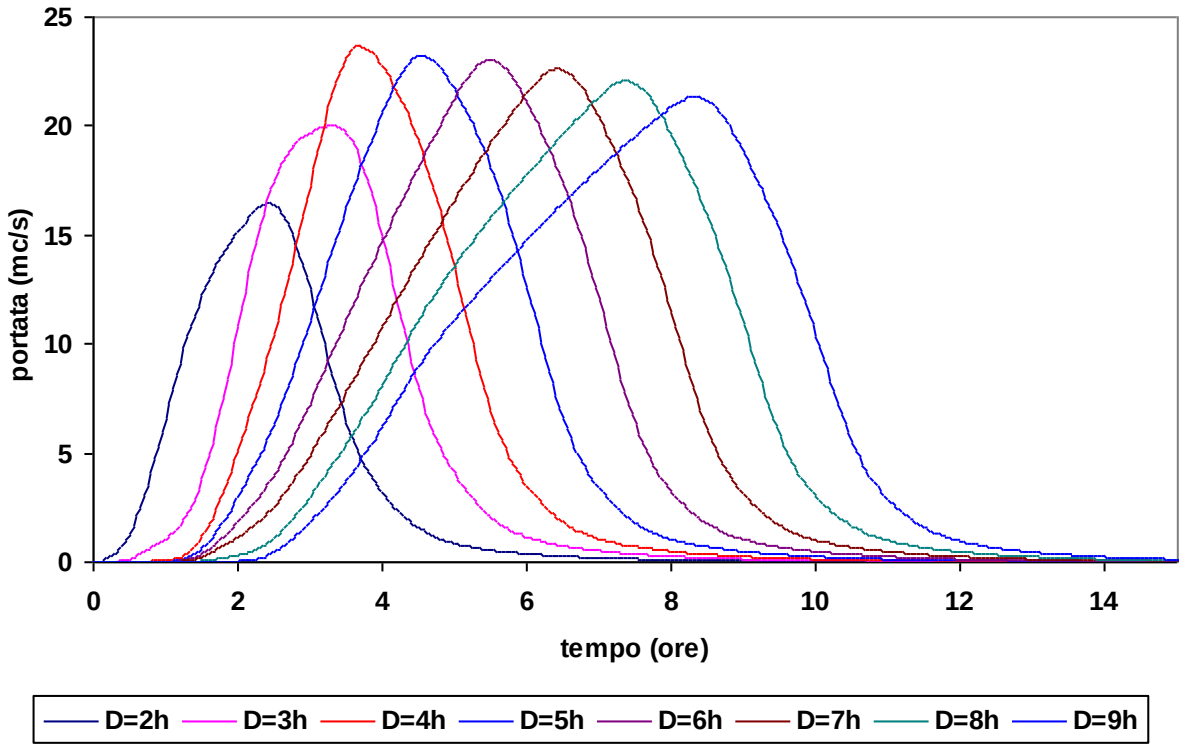


Figura 3-4: Simulazioni con ietogramma costante e diverse durate per la scelta della durata critica di un generico bacino idrografico

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:

$$P = P_e + I_a + F_a$$

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 riferimento alle condizioni iniziali intermedie ($CN\ II$), con il parametro $CN\ II$ determinato, per i bacini di interesse, mediante la procedura descritta al paragrafo seguente.

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).

Il *CN-II* medio per ogni bacino è stato quindi determinato come media pesata dei valori di CN delle singole celle di estensione S_i in cui è stata suddivisa l'area totale del bacino:

$$CN = \sum_i CN_i \cdot S_i \Big/ \sum_i S_i$$

La Figura 3-5 mostra l'andamento spaziale del parametro *CN-II* nell'area di interesse.

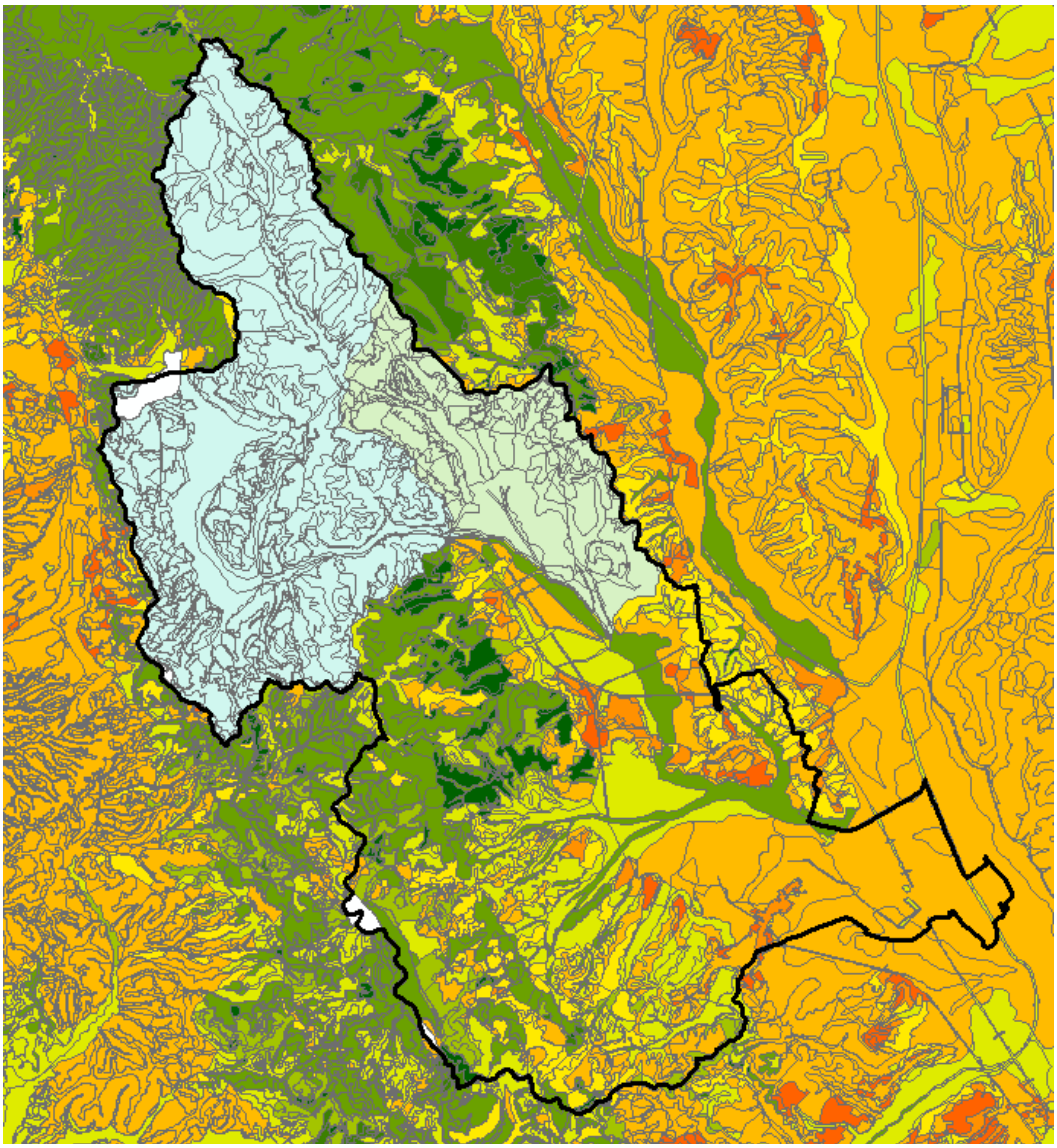


Figura 3-5: Andamento spaziale del parametro *CN-II* nell'area di interesse: la gradazione cromatica da verde a rosso indica aree rispettivamente da molto permeabili a sostanzialmente impermeabili. La linea di colore nero indica il bacino idrografico di interesse.

In Tabella 3-2, per ciascun bacino di interesse, è indicato il valore del parametro *CN-II*.

Tabella 3-2: valori del parametro CN III per i sottobacini e gli interbacini individuati in Appendice 1.

Sottobacini	CN II	Superficie [kmq]	Interbacini	CN II	Superficie [kmq]
AC_S1	5.65	76.15	FO_S2	21.40	70.03
AC_I1	1.77	82.65	DC_S1	5.62	75.13
AC_I2	0.55	83.42	LA_S1	1.12	77.25
MA_S1	0.97	76.89	BA_I0	0.60	73.69
MA_I1	0.11	84.00	SE_S1	14.50	70.29
BA_I1	2.08	76.91	FO_S3	8.85	79.01
FU_I1	2.35	77.96	DO_S1	2.90	55.52
BA_I2	0.62	71.67	VA_S1	4.97	60.85
FU_I2	3.54	83.49	VA_S2	0.41	64.36
BA_I3	0.58	79.10	CA_S1	4.20	75.94
FI_I3	5.12	83.66	PE_S1	0.81	83.25
BA_I4	1.31	83.54	GA_S1	21.26	63.82
FU_I4	2.39	83.64	FR_S1	8.76	71.70
FU_I5	0.67	83.65	MU_S1	2.77	76.80
FO_S1	61.33	63.55			

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 (**Errore. 'origine riferimento non è stata trovata.**).

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:

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

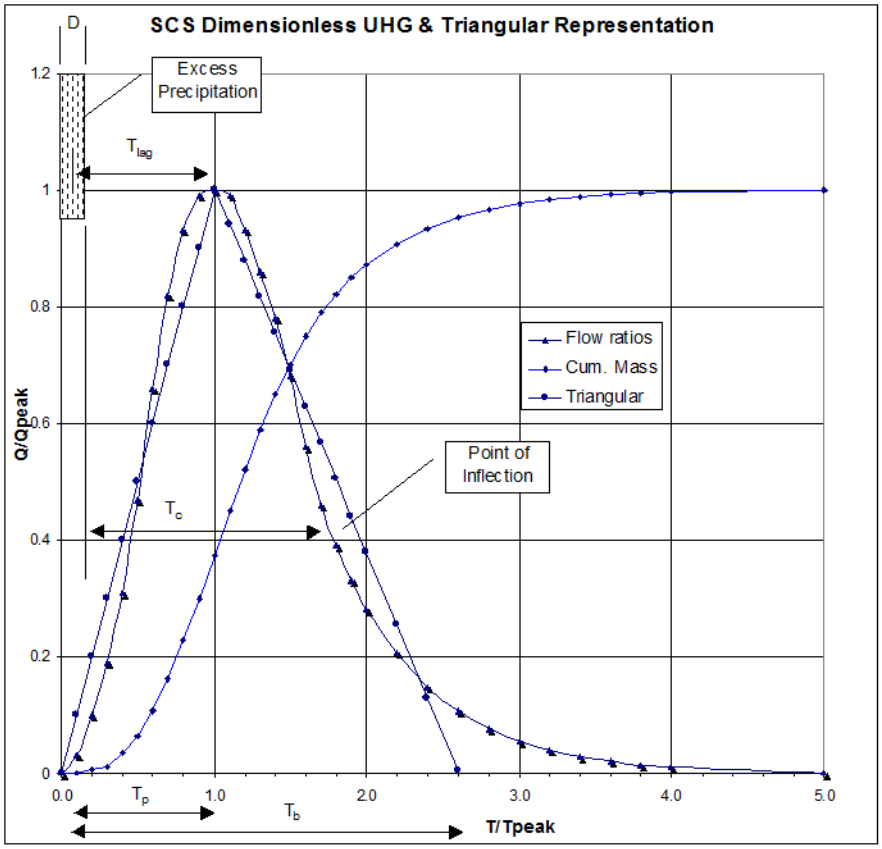


Figura 3-6: IUH-SCS

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 3-7).

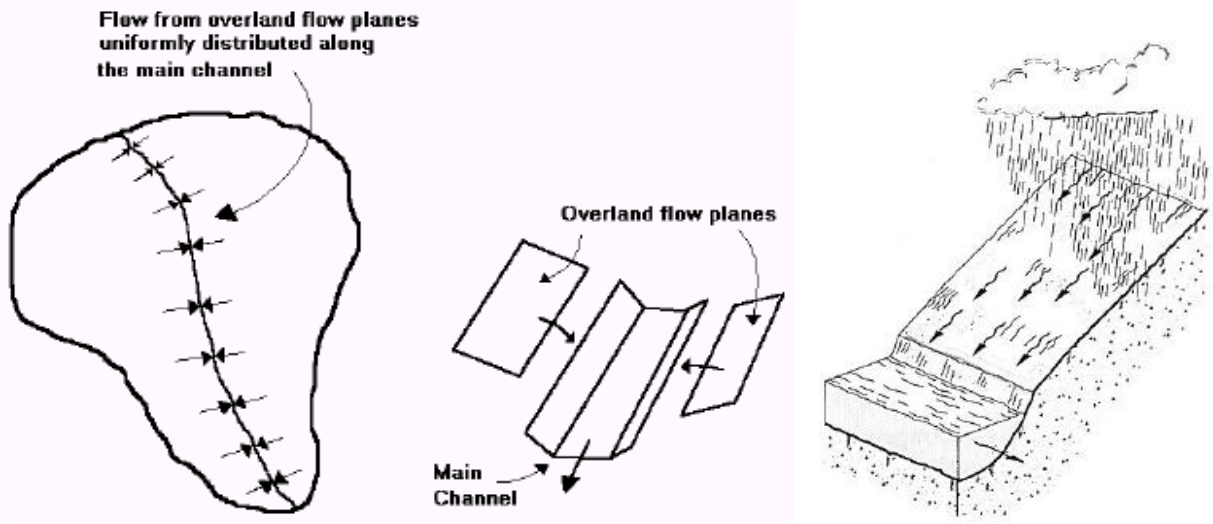


Figura 3-7: schematizzazione cinematica di un interbacino in canali e aree di drenaggio

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.

3.5.3 La propagazione delle onde di piena

Una onda di piena che percorre un corso d'acqua viene laminata per effetto degli attriti e dei fenomeni di invaso nell'alveo e nelle zone golenali.

Il tempo di percorrenza e le caratteristiche di laminazione della portata al colmo variano a seconda del tipo di corso d'acqua considerato. In particolare, il processo di propagazione dipende dalla pendenza, dalla lunghezza del tratto, dalla scabrezza e dall'altezza d'acqua. In generale lo studio della propagazione dei deflussi può essere effettuato mediante:

- **modelli idraulici**, basati sulle equazioni di De Saint Venant , in forma completa o semplificata.
- **modelli idrologici**, basati sull'equazione di continuità e su relazioni tra portata e volumi liquidi invasati in un dato tratto di un corso d'acqua.

3.5.3.1 Il Metodo di Muskingum

Nel presente metodo l'invaso in un tratto di corso d'acqua viene considerato come somma di un termine di immagazzinamento prismatico e di un termine di immagazzinamento a cuneo. Durante la fase di crescita della portata defluente l'invaso a cuneo è positivo e viene aggiunto all'invaso prismatico, mentre durante la fase calante dell'onda di piena l'invaso a cuneo è negativo e viene sottratto dall'invaso prismatico.

Nel metodo di Muskingum si pone:

$$V = K[XQ_i + (1 - X)Q_u]$$

dove Q_i rappresenta la portata in ingresso, Q_u la portata in uscita, *K* il tempo che impiega l'acqua a propagarsi nel tratto di corso d'acqua in esame (cioè tra la sezione di monte e quella di valle) ed *X* è un fattore peso, variabile tra 0 e 0.5. Generalmente i valori di *X* sono prossimi a 0 per canali con ampie aree golenali, prossimi a 0.5, invece, per canali a forte pendenza. Valori tipici di *X* sono compresi tra 0.2 e 0.3.

3.5.3.2 Il Metodo di Muskingum-Cunge

Il metodo di Muskingum-Cunge è basato sull'equazione di continuità e sull'approssimazione parabolica delle equazioni complete di De Saint Venant. Cunge (1969) dimostrò che quando K e Δt sono assunti come costanti, rappresentano un'approssimazione dell'equazione dell'onda cinematica, ed in particolare dell'equazione di diffusione del momento. Definita *c* la celerità di traslazione dell'onda corrispondente a Q e B $\left(c = \frac{dQ}{dA} = \frac{dx}{dt}\right)$ dove B è la larghezza dell'alveo in superficie ed *A* l'area liquida, i coefficienti del metodo di Muskingun vengono calcolati in base alle caratteristiche del corso d'acqua mediante le relazioni:

$$K = \frac{\Delta x}{c} \qquad X = \frac{1}{2}\left(1 - \frac{Q}{BS_0 c \Delta x}\right)$$

in cui *Δx* è l'intervallo di discretizzazione spaziale, *Δt* il passo temporale di calcolo e S_o la pendenza di fondo.

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 osservazione 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.

- **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 ia 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 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.
- **Aronica e Paltrinieri** hanno invece fornito la seguente formulazione, applicabile a bacini di area minore di 10 Km^2:

$$t_c = \frac{\frac{1}{Md}\sqrt{A} + 1.5L}{0.8\sqrt{H_m}}$$

in cui M e d sono due costanti numeriche che variano, rispettivamente, con l'uso del suolo e con la permeabilità del terreno.

- 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 tc è espresso in ore, l è la lunghezza idraulica del bacino in piedi, S è la ritenzione potenziale espressa in mm e iv è la pendenza media dei versanti 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 è stato utilizzato un modello idrologico di tipo concettuale e semidistribuito, implementato mediante il software americano HEC-HMS (Figura 3-10).

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

Le caratteristiche morfometriche dei bacini per le analisi idrologiche sono state estratte dal DEM costruito a partire dalla cartografia numerica CTR in scala 1:10000 (Figura 3-9).

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;
- riduzione del tasso di pioggia in base alla superficie del bacino sotteso e della durata dello scroscio secondo la formulazione di Raudkivi (1970) modificata;
- ietogramma costante;
- stima dell’infiltrazione mediante metodo SCS-CN assumendo il valore CN (II) relativo allo stato iniziale di bacino mediamente imbibito;
- 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.

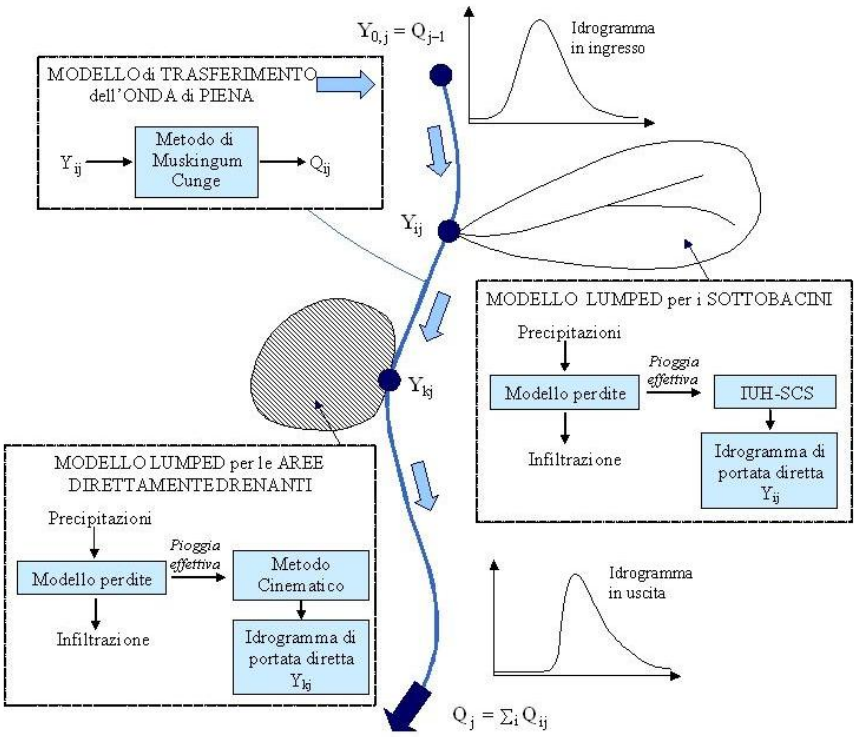


Figura 3-8: Diagramma schematico degli elementi del modello idrologico e delle loro connessioni.

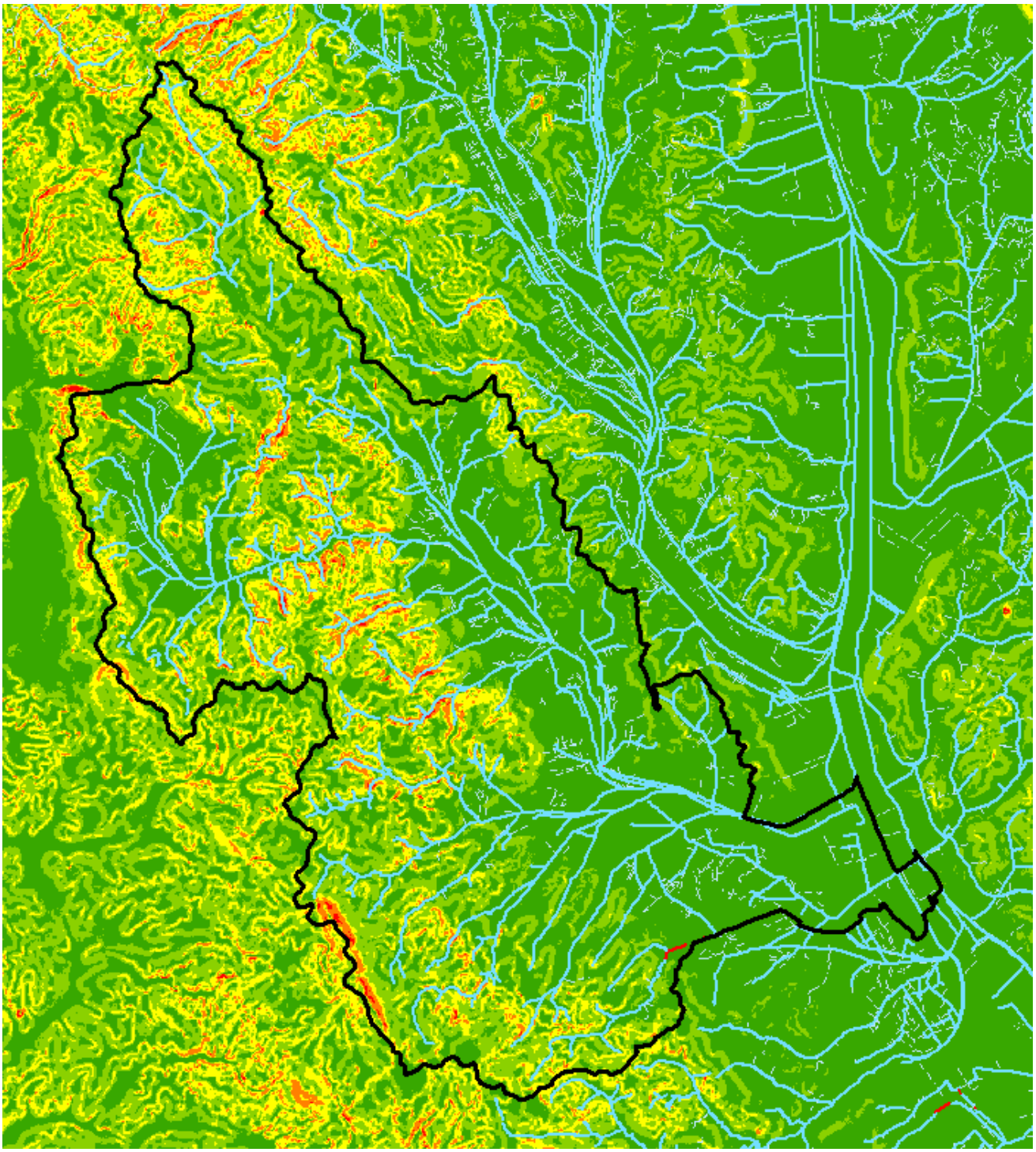


Figura 3-9: Mappa delle pendenze

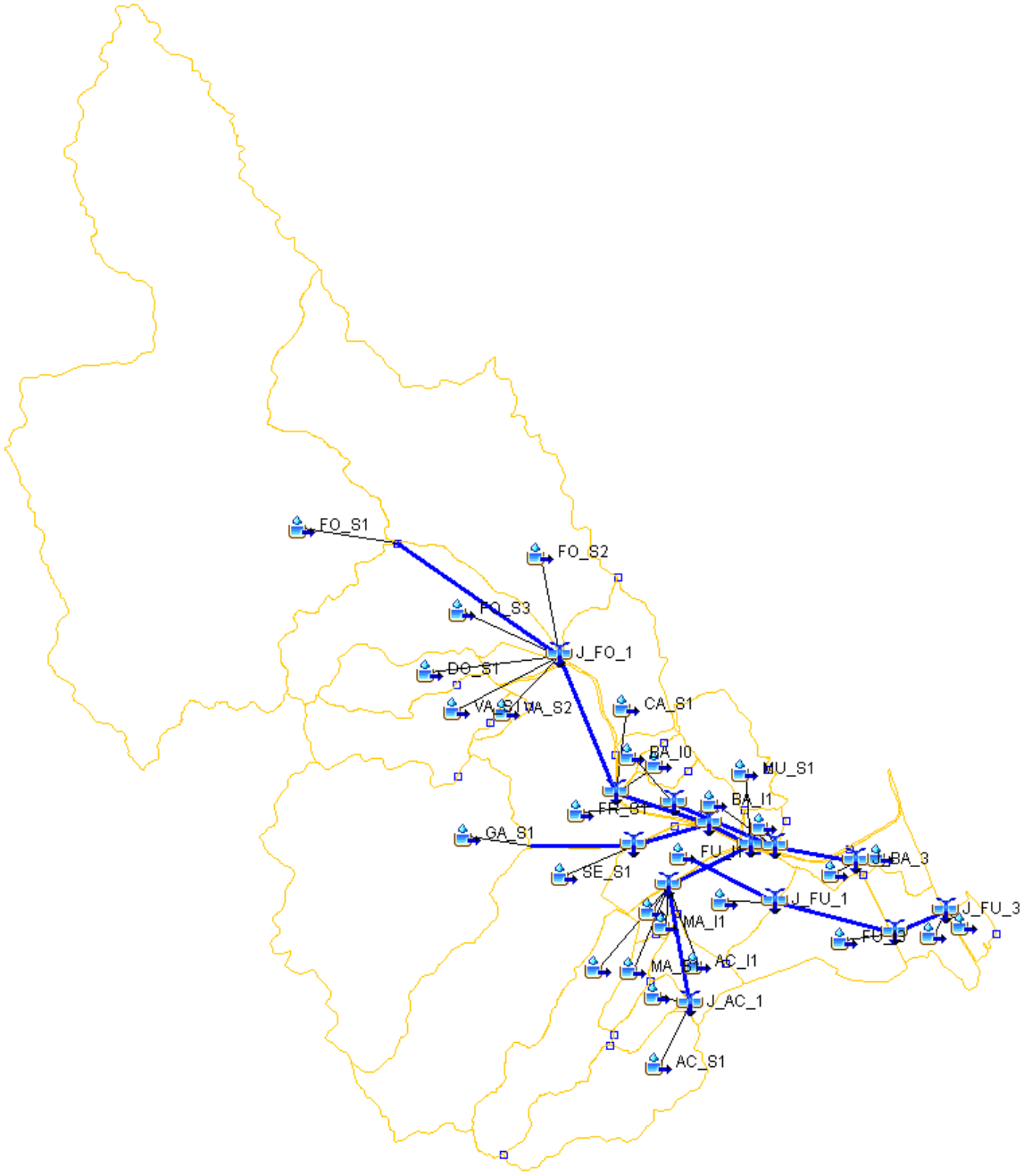


Figura 3-10: Modello idrologico semidistribuito implementato mediante il software HEC-HMS

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(II), i_v pendenza media dei versanti, i pendenza media[2] dell'asta principale, ritenzione potenziale.

[2] 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*

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 (II)	i_v	i	S
	[Km^2]	[Km]	[Km]	[m]	[ms.l.m.]	[ms.l.m.]		[%]	[%]	[mm]
SE_S1	14.50	8.77	9.11	105.56	634.00	262.85	70.29	0.11	0.02	4.23
GA_S1	21.26	6.71	6.80	122.85	634.00	265.86	63.82	0.15	0.02	5.67
FO_S1	61.33	19.43	19.59	125.27	632.00	264.00	63.55	0.16	0.01	5.74
FO_S2	21.40	7.19	7.60	44.02	469.00	265.00	70.03	0.08	0.01	4.28
FO_S3	8.85	5.03	5.13	88.72	546.00	263.00	79.01	0.14	0.04	2.66
DO_S1	2.90	3.45	3.61	126.86	518.00	271.00	55.52	0.20	0.05	8.01
VA_S1	4.97	5.79	6.00	124.02	532.00	263.00	60.85	0.19	0.03	6.43
VA_S2	0.41	0.90	1.34	51.67	436.00	272.00	64.36	0.13	0.08	5.54
MU_S1	2.77	3.21	3.36	31.71	311.00	251.00	76.80	0.05	0.01	3.02
PE_S1	0.81	1.71	1.89	19.05	306.00	262.00	83.25	0.04	0.02	2.01
FR_S1	8.76	2.55	4.05	20.96	431.00	255.00	71.70	0.04	0.003	3.95
CA_S1	4.20	3.62	3.98	16.86	305.00	258.00	75.94	0.04	0.01	3.17
DC_S1	5.62	5.70	5.76	90.15	554.00	266.00	75.13	0.13	0.03	3.31
AC_S1	5.65	5.31	5.66	76.75	555.00	271.00	76.15	0.15	0.02	3.13
LA_S1	1.12	1.89	1.93	36.04	354.00	268.00	77.25	0.09	0.02	2.94
MA_S1	0.97	2.07	2.21	31.72	332.00	267.00	76.89	0.08	0.02	3.00

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]							Tr [min]
	Kirpich	Vipparelli	*Pezzoli*	*Watt*	*Chow*	NCRS		
SE_S1		2.20		3.23	2.21		2.55	92
GA_S1		1.64		2.48	1.78		1.97	71
FO_S1		4.73		8.11	4.65		5.83	210
FO_S2		1.84		3.61	2.41		2.62	94
FO_S3		1.24		1.67	1.29	1.41	1.40	51
DO_S1		0.87		1.15	0.95	1.65	1.16	42
VA_S1		1.45		2.13	1.58	2.23	1.85	66
VA_S2	0.22	0.32	0.18	0.32	0.34	0.74	0.35	13
MU_S1		0.81		2.02	1.51	1.74	1.52	55
PE_S1		0.46	0.71	0.96	0.83	0.97	0.79	28
FR_S1		0.98		2.85	1.99	2.52	2.08	75
CA_S1		0.96		2.82	1.98	2.39	2.04	73
DC_S1		1.39		2.09	1.55	1.79	1.71	61
AC_S1		1.37		2.07	1.54	1.60	1.64	59
LA_S1		0.47	0.74	0.99	0.85	0.84	0.78	28
MA_S1		0.53	0.75	1.01	0.86	1.03	0.84	30

d'acqua Quarta edizione, Libreria Internazionale Cortina, Padova, 2002, pag 178) La media armonica è l'inverso della media aritmetica degli inversi:

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

Per ciascun interbacino, in Tabella 3-5 sono riportati i valori dei parametri caratteristici per l'applicazione del modello Kinematic Wave (onda cinematica) accoppiato al modello di propagazione di Muskingum- Cunge: 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).

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

bacino	L	i	R	A	l	i_c	n	b	is
	[m]	[m/m]	$m^{-1/3}s$	[Km^2]	[m]	[-]	$m^{-1/3}s$	[m]	[m/m]
Ma_I1	52	0.02	0.2	0.11	578	0.014	0.035	1.7	2.2
AC_I1	494	0.03	0.2	1.77	2082	0.001	0.035	0.8	2.3
AC_I2	482	0.02	0.2	0.55	587	0.001	0.035	2.3	2.4
BA_I0	297	0.02	0.2	0.6	542	0.002	0.035	1	1
BA_I1	341	0.04	0.2	2.08	2610	0.002	0.035	1.5	1.5
BA_I2	336	0.03	0.2	0.62	682	0.002	0.035	1.5	1.5
BA_I3	237	0.03	0.2	0.58	1882	0.002	0.035	1.35	1.35
BA_I4	447	0.01	0.2	1.31	1260	0.0018	0.035	1.35	1.35
FU_I1	855	0.01	0.2	2.35	493	0.001	0.035	1	1
FU_I2	607	0.01	0.2	3.54	1858	0.001	0.035	2.8	1.6
FU_I3	625	0.006	0.2	5.12	3068	0.001	0.035	2.8	1.6
FU_I4	658	0.004	0.2	2.39	1175	0.001	0.035	2.8	1.6
FU_I5	514	0.01	0.2	0.67	703	0.001	0.035	2.8	1.6

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 riassunte in Tabella 4-1 e

Tabella 4-2. Le tabelle mostrano inoltre le diverse durate critiche, ottenute mediante la procedura precedentemente descritta.

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

ACQUE ALTE

N°	Nome	Codice	Sezione chiusura HMS	S (kmq)	Q picco (mc/s) - TR30						
					1h	2h	3h	4h	6h	8h	12h
1	Acornio S1	AC	AC_S1	5.7	10.5	13.3	13.4	12.8	11.1	9.6	7.7
2	Lavatoi	LA	LA_S1	1.1	4.0	4.0	3.5	3.1	2.5	2.1	1.6
3	Acornio I1	AC	AC_I1	1.8	3.1	5.0	5.8	5.4	4.4	3.7	2.8
4	Acornio I2	AC	AC_I2	0.6	0.9	1.5	1.9	1.7	1.4	1.2	0.9
5	Maramocco S1	MA	MA_S1	1.0	3.2	3.3	2.9	2.6	2.1	1.8	1.4
6	Maramocco I1	MA	MA_I1	0.1	0.9	0.6	0.5	0.4	0.3	0.3	0.2
7	Doccia	DC	DC_S1	5.6	9.3	12.1	12.5	12.0	10.5	9.2	7.4
8	Doccia	DC	J_DC_1	15.8	23.1	32.2	34.9	34.4	30.6	27.0	21.6
9	Segavenne	SE	SE_S1	14.5	10.4	16.0	18.8	19.9	19.6	18.4	15.7
10	Galegno	GA	J_GA_1	35.8	18.9	31.5	38.4	41.3	41.5	39.2	34.0
11	Galegno	GA	GA_s1	21.3	8.6	15.7	19.8	21.6	22.0	21.0	18.3
12	Musarone	MU	MU_S1	2.8	5.8	7.1	7.0	6.6	5.6	4.9	3.9
13	Foenna	FO	J_FO_2	104.9	37.7	52.3	59.7	63.2	68.2	73.2	76.5

ACQUE BASSE

N°	Nome	Codice	Sezione chiusura HMS	S (kmq)	Q picco (mc/s) - TR30						
					1h	2h	3h	4h	6h	8h	12h
1	Baregno	BA	J_BA_2	12.1	12.0	17.2	19.3	20.0	19.1	17.5	14.5
2	Baregno	BA	BA_I3	0.6	1.5	2.0	1.9	1.7	1.3	1.1	0.9
3	Baregno	BA	BA_I4	1.3	2.5	3.7	4.0	4.1	3.3	2.8	2.1
4	Fuga	FU	FU_I1	2.4	1.0	1.9	2.6	3.3	3.7	3.9	3.2
5	Fuga	FU	FU_I2	3.5	3.0	4.9	6.5	7.8	8.3	7.2	5.6
6	Fuga	FU	FU_I3	5.1	4.0	6.6	8.8	10.5	11.6	10.3	8.1
7	Fuga	FU	FU_I4	2.4	1.4	2.3	3.0	3.6	4.7	4.7	3.8
8	Fuga	FU	FU_I5	0.7	0.7	1.1	1.5	1.8	1.7	1.4	1.1

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

ACQUE ALTE

N°	Nome	Codice	Sezione chiusura HMS	S (kmq)	Q picco (mc/s) - TR200						
					1h	2h	3h	4h	6h	8h	12h
1	Acornio S1	AC	AC_S1	5.7	22.0	27.4	27.2	25.5	21.8	18.8	15.0
2	Lavatoi	LA	LA_S1	1.1	7.9	7.6	6.6	5.8	4.7	3.9	3.1
3	Acornio I1	AC	AC_I1	1.8	8.5	12.5	11.6	10.0	8.0	6.7	5.2
4	Acornio I2	AC	AC_I2	0.6	2.4	4.0	3.7	3.2	2.5	2.1	1.6
5	Maramocco S1	MA	MA_S1	1.0	6.5	6.4	5.6	4.9	4.0	3.4	2.7
6	Maramocco I1	MA	MA_I1	0.1	1.5	1.0	0.8	0.7	0.5	0.4	0.3
7	Doccia	DC	DC_S1	5.6	20.0	25.6	25.8	24.4	21.1	18.3	14.7
8	Doccia	DC	J_DC_1	15.8	51.7	69.1	72.4	69.8	60.8	52.9	42.2
9	Segavenne	SE	SE_S1	14.5	26.0	38.9	44.5	45.9	43.9	40.2	33.8
10	Galegno	GA	J_GA_1	35.8	54.6	85.9	99.5	103.1	99.1	91.2	77.1
11	Galegno	GA	GA_S1	21.3	28.9	47.4	55.3	57.5	55.4	51.1	43.5
12	Musarone	MU	MU_S1	2.8	11.9	14.3	14.0	12.9	10.9	9.4	7.5
13	Foenna	FO	J_FO_2	104.9	86.4	123.1	142.7	156.2	177.4	189.6	189.1

ACQUE BASSE

N°	Nome	Codice	Sezione chiusura HMS	S (kmq)	Q picco (mc/s) - TR200						
					1h	2h	3h	4h	6h	8h	12h
1	Baregno	BA	J_BA_2	12.1	26.2	37.0	42.2	43.5	40.7	36.5	29.9
2	Baregno	BA	BA_I3	0.6	4.0	4.3	3.6	3.1	2.5	2.1	1.6
3	Baregno	BA	BA_I4	1.3	6.5	8.6	8.7	7.6	6.0	5.0	3.9
4	Fuga	FU	FU_I1	2.4	3.4	6.5	8.5	9.4	9.3	8.1	6.4
5	Fuga	FU	FU_I2	3.5	8.1	14.2	18.5	19.2	15.8	13.3	10.3
6	Fuga	FU	FU_I3	5.1	10.9	19.0	24.8	26.6	22.6	19.2	14.9
7	Fuga	FU	FU_I4	2.4	3.7	6.5	8.8	10.9	10.4	8.9	7.0
8	Fuga	FU	FU_I5	0.7	1.9	3.3	4.2	3.8	3.0	2.5	2.0

5 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 definire le modalità di allagamento si sono preliminarmente individuati le potenziali aree di trasferimento e i possibili fronti di esondazione. L'indagine morfologica e topografica su tali aree è stata condotta sulla scorta delle seguenti fonti:

- analisi della cartografia CTR in scala 1:10000 e 1:2000;
- sopraluoghi e riprese fotografiche;
- modello Digitale del Terreno (DTM) derivato dal rilievo realizzato con laser altimetro aviotrasportato;
- rilievi di dettaglio effettuati con strumentazione GPS o stazione totale.

Occorre precisare che in caso di sormonto arginale qualunque programma di simulazione numerica del tipo monodimensionale gestisce il fenomeno estendendo orizzontalmente ed istantaneamente il pelo libero fino all'estremo della sezione posto sul medesimo lato e procede poi nelle iterazioni calcolando tutte le grandezze idrauliche di interesse (area bagnata, perimetro bagnato ecc..) in funzione della quota e dell'estensione del suddetto pelo libero (vedasi caso b) di Figura 5-1): in tal caso l'area golenale risulta partecipe del moto.

Può però accadere che la propagazione dell'onda di piena nell'area golenale, avvenga con un tirante idraulico variabile nel tempo ma indipendente da quello simultaneo nella sezione più prossima dell'alveo principale (vedi caso c) di Figura 5-1). Anche in questo caso il programma di simulazione numerica gestirebbe il fenomeno estendendo orizzontalmente ed istantaneamente il pelo libero sovrastimando così sia il battente che l'estensione delle aree allagate golenali.

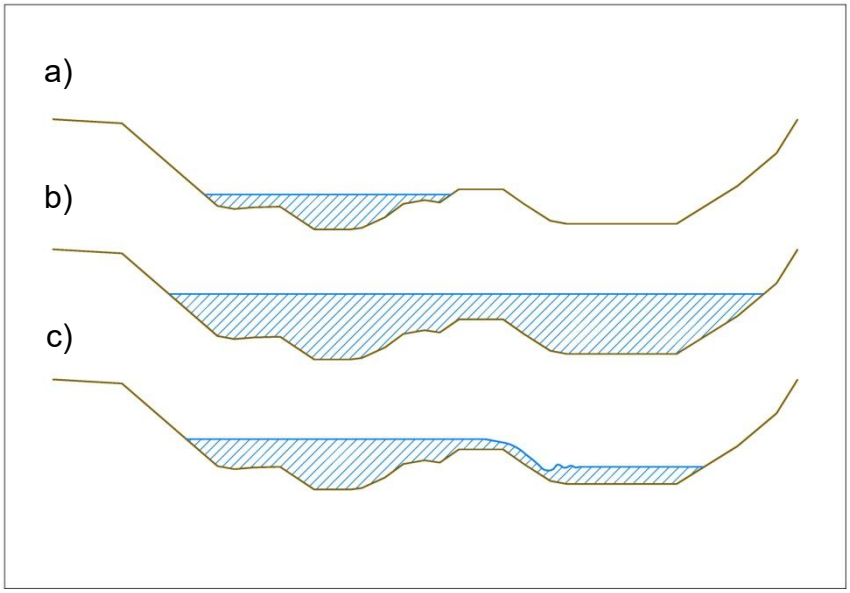


Figura 5-1: schematizzazione del moto nelle golene nei modelli monodimensionali

Per meglio approssimare quest'ultimo fenomeno si è utilizzato l'artificio *"Levee"*[3] associato agli elementi *"Lateral structures".*

Così facendo, il campo di moto è stato limitato all'alveo inciso del torrente principale mentre i relativi volumi esondati che si propagano nelle aree golenali circostanti sono stati stimati con lo strumento *"Lateral structure".*

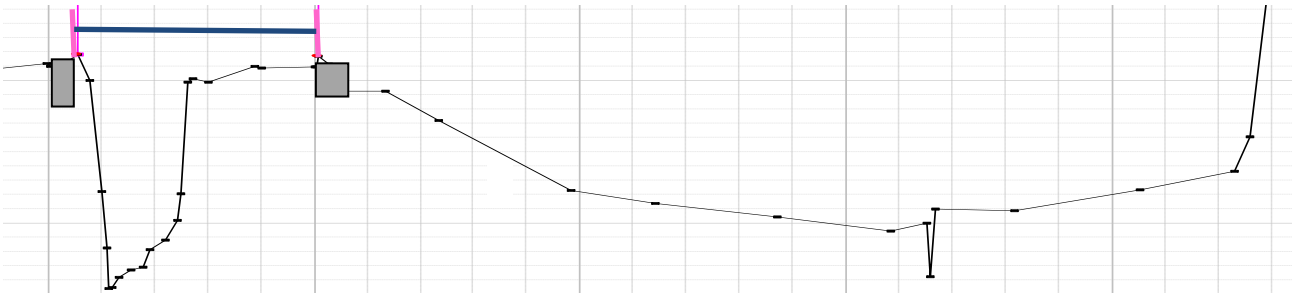


Figura 5-2: schema del modello di calcolo adottato per descrivere il fenomeno di sormonto arginale.

Pertanto per descrivere compiutamente il fenomeno è stato allestito un modello matematico monodimensionale implementato mediante il software Hec-Ras[4] (rel.4.1.0) per la propagazione dell'onda di piena nell'alveo e la determinazione dei volumi esondati. In caso di esondazione, al fine di individuare e perimetrare le aree allagabili è stato allestito un modello puramente bidimensionale con il software FLO-2D ver. Pro.

[3] In Hec-Ras lo strumento"levee" (argine) consente l'introduzione di un limite laterale all'estensione della sezione di deflusso occupata dalla corrente unidirezionale. Senza tale limite aree, perimetri bagnati, raggi idraulici e velocità medie risulterebbero notevolmente falsati.

[4] Hydrologic Engineering Center – River Analysis System – US Army Corps of Engineers, Davis CA, 2005.

5.1 Principi teorici della modellazione numerica

Si omette in questa sede l'illustrazione dei principi teorici sui quali si basa la soluzione numerica delle equazioni di moto e di continuità che regolano il processo di moto permanente e di moto vario, in quanto una esaustiva trattazione degli stessi argomenti è liberamente disponibile in rete all'indirizzo http://www.hec.usace.army.mil.

Pertanto, per ogni dettaglio riguardante il Packge Hec-Ras rel.4.1.0 si rimanda alle due pubblicazioni "Hydraulic Reference Manual" e "User's Manual".

5.1.1 Assegnazione dei parametri di scabrezza

Per quanto riguarda le scabrezze medie attribuibili al corso d'acqua, rimandando all'Appendice 1 per i dettagli relativi a ciascun corso s'acqua, sì sono assunti 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[5]:

- 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*

Analogamente, per quanto riguarda le scabrezza extra-alveo da utilizzare per la modellazione idraulica bidimensionale del cosiddetto "overland flow", si è fatto riferimento alla tabella seguente, sempre tratta dalla letteratura di settore.

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

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.

5.1.2 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, quale condizioni al contorno di monte sono stati assunti gli idrogrammi di piena; per la condizione di valle, invece, si è generalmente optato per l'altezza di moto uniforme. Fa eccezione il canale la Fuga di Torrita per il quale, a favore di sicurezza è stata assunta come condizione di valle l'ipotesi che il Canale recettore sia completamente pieno. E' stato quindi imposto uno *Stage Hydrograph* costante di quota pari a 248.24 m s.l.m., cioè pari alla massima quota arginale del Canale Maestro nella sezione Provv_400.2.

5.1.3 Taratura dei principali parametri inerenti l'implementazione del modello numerico in regime di moto vario

Il corretto impiego del software Hec-Ras in regime di moto vario richiede un'adeguata comprensione delle equazioni che reggono il processo al fine di conseguire una giusta messa a punto dei parametri di calcolo del modello, così da raggiungere un buon compromesso tra stabilità ed accuratezza della soluzione.

Uno dei parametri più critici nella taratura del modello è costituito dal passo temporale di calcolo. Si può ottenere una buona stabilità ed accuratezza del modello selezionando un valore dell'intervallo di calcolo che rispetti la condizione di Levi Courant. In alternativa può essere usato un altro criterio indicato dagli autori come più speditivo $\Delta t \leq T_r / 20$, in cui T_r rappresenta la durata del ramo crescente dell'idrogramma di piena.

Come però segnalato nel manuale utente la presenza di *"Weir/spillways"* e *"hydraulic connections"* rende spesso necessario ridurre il valore di tale parametro fino a Δt di pochi secondi: nel caso specifico, considerando tutte le simulazioni, abbiamo ottenuto $3 \leq \Delta t \leq 30$ sec. In Figura 5-3 sono riportate le opzioni impostate e le tolleranze di calcolo utilizzate.

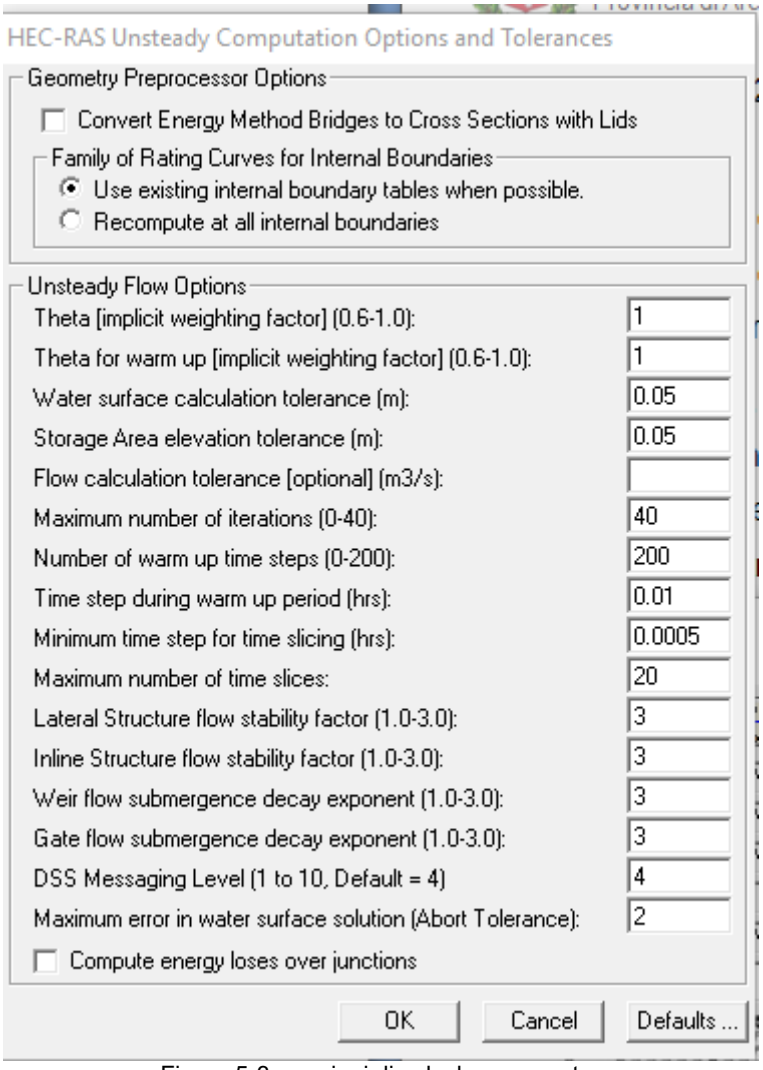


Figura 5-3: opzioni di calcolo assegnate.

5.2 Modellazione idraulica bidimensionale con FLO-2D ver. Pro

Il software di calcolo americano FLO-2D si basa su un codice di calcolo che utilizza uno schema integrato:

- monodimensionale per il deflusso nell'alveo inciso;
- bidimensionale nelle aree golenali.

Inoltre, FLO-2D presenta le seguenti caratteristiche principali:

- è un modello fisicamente basato;
- conserva i volumi e ne fornisce un report.

Rimandando per gli aspetti di dettaglio alla documentazione tecnica consultabile online al sito http://www.flo-2d.com/, si illustrano alcune caratteristiche principali del programma di calcolo.

I processi fisici simulati da FLO-2D sono rappresentati graficamente in Figura 5-4. Per quanto concerne la propagazione delle portate in alveo ed extra alveo, il software permette di effettuare una modellazione ibrida 1D nel canale (del tutto analoga a Hec-Ras) e puramente 2D nelle golene (tutto ciò sia per le portate liquide sia, volendo, per portate solide).

FLO-2D consente di importare la geometria del corso d'acqua direttamente da Hec-Ras, mentre le strutture idrauliche sono inserite mediante le proprie scale di deflusso, calcolate esternamente in Hec-Ras e riportate in dettaglio in Appendice 2.

Quando, durante le simulazioni in moto vario, le portate idrauliche non riescono più ad essere contenute in alveo, il software trasferisce automaticamente i volumi in eccesso alle celle golenali adiacenti, passando allo schema di propagazione 2-D; ciò avviene anche al contrario, con i volumi idrici di esondazione che possono, compatibilmente alle condizioni idrauliche in alveo, rientrare nel "channel" (Figura 5-5).

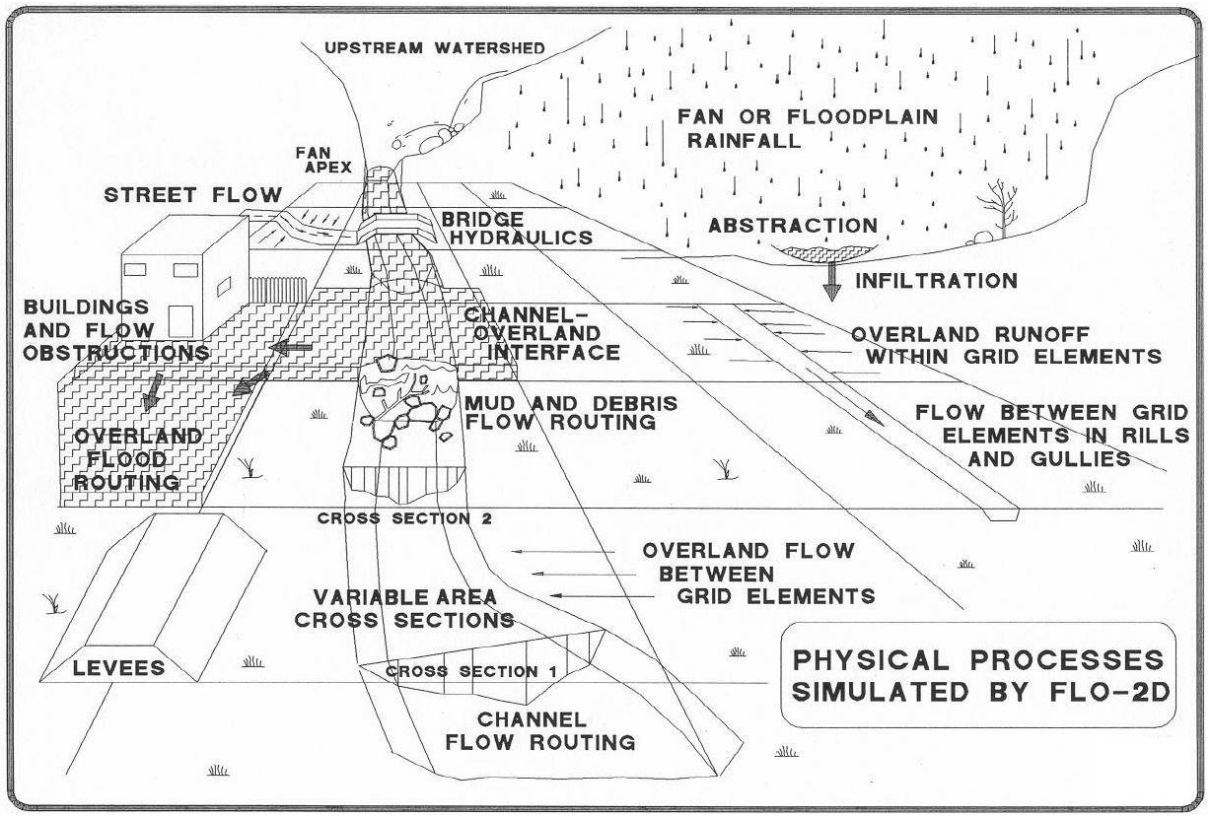


Figura 5-4: Processi fisici simulati da FLO-2D.

L'"overland flow", cioè la propagazione della piena fuori alveo, è modellata in modo bidimensionale sia come deflusso esteso e a basso tirante ("sheet flow") o come deflusso in canali multipli e separati, in base alle caratteristiche morfologiche dell'area allagata.

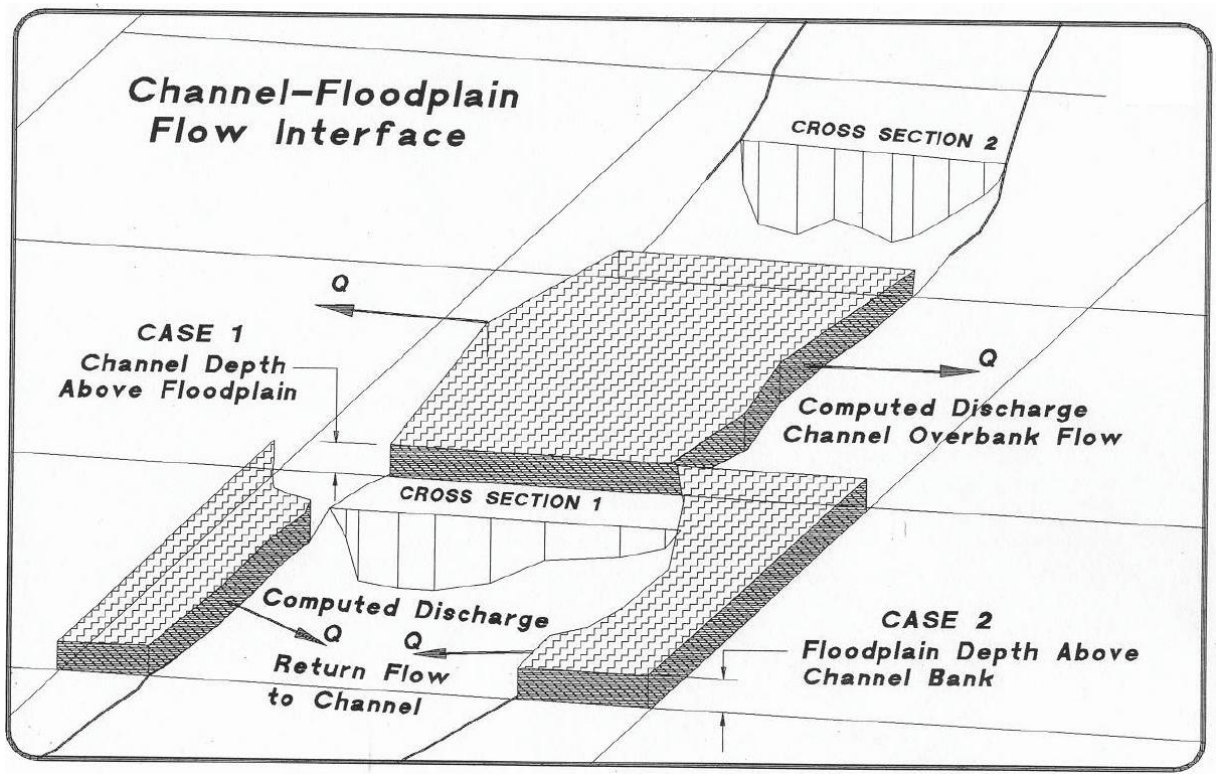


Figura 5-5: Interfaccia alveo inciso - aree golenali.

Il moto bidimensionale di propagazione della piena è risolto mediante l'integrazione numerica delle equazioni del moto e di conservazione del volume. FLO-2D utilizza il seguente sistema di equazioni, costituito rispettivamente dall'equazione di continuità e dall'equazione del moto espressa come equazione dell'onda dinamica completa:

$$\frac{\partial h}{\partial t} + \frac{\partial h V_x}{\partial x} = i$$

$$S_{fx} = S_{0x} - \frac{\partial h}{\partial x} - \frac{V_x}{g}\frac{\partial V_x}{\partial x} - \frac{1}{g}\frac{\partial V_x}{\partial t}$$

dove:

h: tirante idrico;

V_x: componente lungo x della velocità media;

i: intensità dell'eccesso di pioggia;

S_{fx}: componente lungo x del gradiente delle perdite di carico per attrito (da equazione di Manning);

S_{0x}: pendenza del piano campagna.

La forma differenziale delle equazioni di continuità e del moto è risolta con uno schema numerico esplicito alle differenze finite centrato, ovvero interpolando con legge quadratica la soluzione reale.

In FLO-2D il dominio di calcolo è discretizzato mediante una griglia di celle quadrate di dimensione uniforme. La procedura computazionale di analisi della propagazione della piena fuori alveo consiste nel calcolare la portata attraverso ognuna delle 8 potenziali direzioni di flusso (4 ortogonali ai bordi della cella e 4 diagonali, vedi Figura 5-6) e inizia con una prima stima del tirante idrico ai bordi della cella. Tale tirante *h* è una media dei battenti delle due celle che si scambiano volumi idrici in una delle 8 direzioni. Altri parametri idraulici sono mediati tra le due celle per poter stimare la velocità, come la resistenza al moto (coefficiente *n* di Manning), l'area di deflusso, la pendenza, il perimetro bagnato, ecc.

L'equazione dell'onda dinamica completa è un'equazione differenziale parziale non lineare del secondo ordine. Per risolverla, la velocità è inizialmente calcolata a partire dalla pendenza media della superficie idrica tra due celle: tale valore di primo tentativo è poi utilizzato per determinare le radici dell'equazione del moto mediante il metodo Newton-Raphson di secondo ordine.

Il gradiente delle perdite di carico per attrito è fornito dall'equazione di Manning. La modalità utilizzata da FLO-2D per tener conto delle dissipazioni di energia aggiuntive (dovute a vegetazione/edifici, espansioni/contrazioni, curve che i filetti fluidi sono costretti a seguire, ecc..) e del conseguente rallentamento della corrente, è quella di assumere valori maggiorati dei coefficienti *n*, disponibili in letteratura.

La velocità attraverso il confine tra due celle è quindi calcolata risolvendo l'equazione del moto: dall'area media di deflusso si ottiene successivamente la portata per ogni istante di tempo di calcolo. La modifica del volume idrico contenuto in ogni cella in cui è suddivisa l'area inondata (floodplain) è data dalla somma delle singole portate che attraversano i confini nelle 8 direzioni, moltiplicate per l'intervallo temporale di calcolo.

Tale cambiamento di volume è successivamente diviso per l'area della cella per ottenere l'aumento o la diminuzione del tirante idrico.

FLO-2D adotta un passo temporale di calcolo variabile in automatico (sia in incremento sia in decremento) in base alle condizioni numeriche di stabilità che evitano l'insorgenza di instabilità numerica ("surging"). La variabilità temporale di calcolo può essere controllata dall'utente.

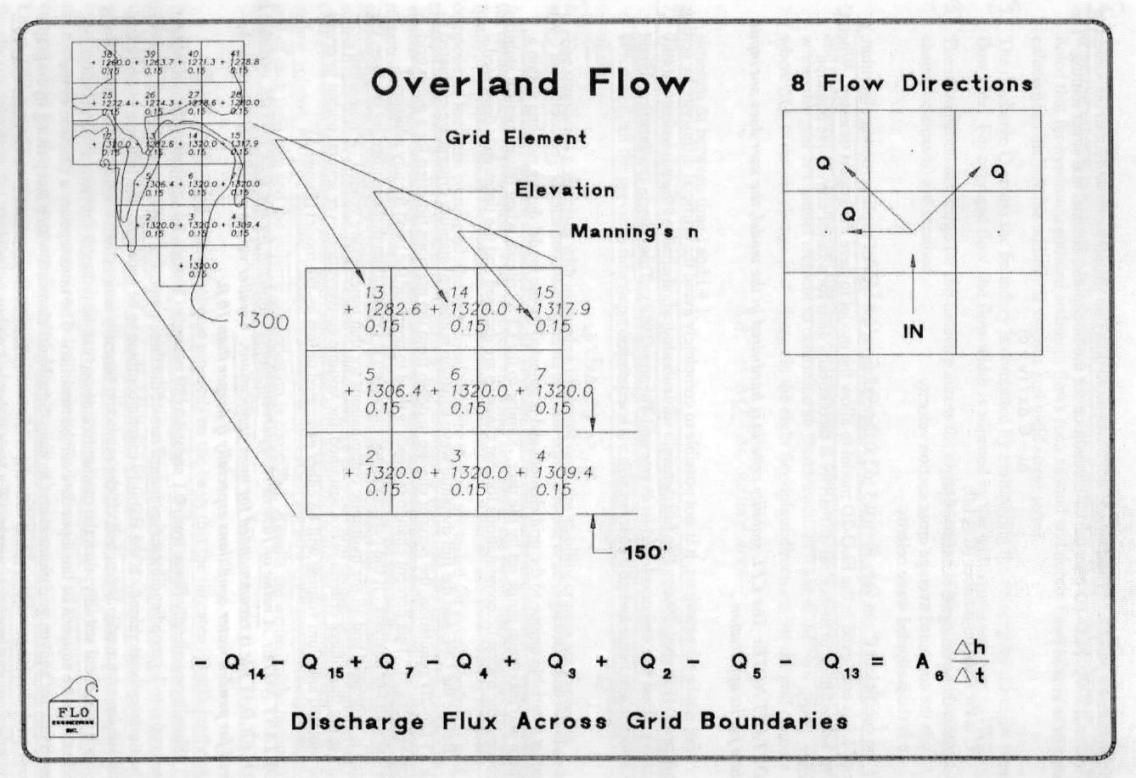


Figura 5-6: Flussi attraverso i confini di una cella in FLO-2D.

Le ipotesi e le limitazioni di base del programma riguardano principalmente la risoluzione spaziale e temporale della griglia di calcolo:

- ogni cella è associata univocamente ad un valore di elevazione, un coefficiente di scabrezza di Manning ed un tirante idrico;
- condizioni di moto uniforme per la durata del passo temporale;
- distribuzione idrostatica delle pressioni;
- risalto idraulico non simulato.

Nelle applicazioni pratiche, l'uso del programma prevede in successione l'uso dei seguenti componenti:

1. Creazione della griglia di calcolo con il software di pre-processamento GDS;
2. Generazione e modifica dei dati di input/output (tra cui dati di inflow, outflow, canali, strade, strutture idrauliche, levee, edifici, parametri di controllo e di stabilità della simulazione) con i moduli GDS, PROFILES, GUI, FLOENVIR;
3. Esecuzione del codice di calcolo idraulico FLO;
4. Lancio dei moduli di post-processamento MAXPLOT, MAPPER per l'analisi dei risultati;
5. Esportazione/integrazione dei risultati in ArcGIS o AutoCAD.

Il primo problema relativo ad una modellazione bidimensionale consiste nella definizione e discretizzazione del dominio di integrazione. Una volta acquisiti i dati topografici relativi all'area di studio, è necessario definire la griglia computazione su cui

sarà implementata l'integrazione delle equazioni differenziali del modello matematico. Definire la griglia significa determinare le dimensioni delle celle che la costituiscono e la loro relativa quota. L'interpolazione delle quote geodetiche del dominio da cui si ottengono le quote delle celle di discretizzazione rappresenta un punto importante di una modellazione bidimensionale, in quanto da esso dipende l'accuratezza della soluzione finale. Infatti, se immaginiamo una carta topografica di dettaglio, troveremo una serie di punti geodetici sparsi, la cui densità varia da punto a punto, su cui dovranno innestarsi le celle di discretizzazione. La quota di ogni cella sarà quella ottenuta tramite un processo di interpolazione tra i punti che ricadono in un certo intorno del punto centrale della cella. La bontà di tale interpolazione dipenderà da tre fattori:

1. tecnica di interpolazione
2. dalla dimensione della cella
3. dalla densità di distribuzione dei punti geodetici.

1. Esistono diverse tecniche di interpolazione, da quelle più semplici di tipo algebrico che operano una media delle quote dei punti che si trovano ad una certa distanza dal centro della cella, fino a metodi più complessi, come quelli di Poisson e Laplace, che invece utilizzano modelli differenziali dedicati. Il programma FLO-2D effettua o la media dei molti punti 3D, provenienti da LIDAR, interni ad ogni singola cella (come in questo caso) oppure una interpolazione lineare tra i punti che ricadono ad una distanza fissata dall'utente dal centro della singola cella. L'algoritmo di interpolazione di default analizza nel secondo caso almeno 2 punti nelle vicinanze del centro della singola cella, con il raggio di interpolazione che si allarga fino a comprendere il numero di punti scelto. Sono inoltre disponibili funzioni di filtro, trascurabili nel caso si eliminassero a monte gli outliers dai punti topografici di partenza.
2. La dimensione della cella è un'altro fattore importante, in quanto si intuisce facilmente che quanto più questa è piccola, tanto più riesce a interpretare fedelmente il reale andamento orografico del terreno. Infatti se immaginiamo cinque diversi punti, la loro interpolazione con un'unica cella genera una quota media che leviga i picchi e riduce le zone depresse, mentre al contrario una discretizzazione con cinque celle conserverebbe l'andamento naturale del terreno.

   Tuttavia, oltre al fatto che per estesi allagamenti un'elevata discretizzazione del dominio di calcolo perde significatività, motivi computazionali richiedono una dimensione maggiore della singola cella in caso di elevate portate in ingresso; il

criterio suggerito dai creatori del software per la corretta scelta della dimensione della cella è $Q_{picco} / A_c < 0.15$ m^3/s m^2, con Q_{picco} = portata massima in arrivo ad una cella e A_c = superficie della singola cella.

3. La densità dei punti rilevati influisce sulla discretizzazione finale e dipende essenzialmente dalla precisione di dettaglio del dato topografico disponibile.[6]

Nel caso specifico, la disponibilità di dati LIDAR ad alta risoluzione ha permesso di conseguire una ricostruzione geometrica delle aree obiettivo molto dettagliata, in grado evidenziare la presenza di rilevati, impluvi e di tutti quei dettagli morfologici in grado di esaltare le potenzialità di una simulazione idraulica puramente bidimensionale. Le celle quadrate con cui è stato discretizzato il dominio hanno lati di lunghezza pari a **8 m**.

[6] Nel caso di modellazione 2D completa, il livello di dettaglio geometrico richiesto per la modellazione idraulica del deflusso nell'alveo di magra è diverso da quello per la modellazione del deflusso golenale (overland flow). Infatti, la discretizzazione del canale è quella che richiede una precisione maggiore: i gradienti di quota sono generalmente più elevati e si sviluppano in uno spazio più ristretto se paragonato a quello golenale. Ne consegue che la dimensione della maglia di discretizzazione richiesta nelle floodplains potrà avere un livello di dettaglio inferiore rispetto a quello dell'alveo principale del corso d'acqua. Il deflusso nel canale viene tuttavia modellato con un approccio monodimensionale, basato sul tradizionale rilievo delle sole sezioni trasversali.

6 Perimetrazione delle aree a pericolosità idraulica

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 di riferimento per il tracciamento delle aree allagabili con riferimento al DTM Lidar.

Nelle modellazioni numeriche puramente bidimensionali, il software FLO-2D ha direttamente fornito l'inviluppo delle aree allagabili.

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

- Aree inondabili da eventi con tempo di ritorno TR ≤30 anni (pericolosità idraulica molto elevata (I.4);
- Aree inondabili da eventi con tempo di ritorno 30≤TR ≤200 anni (pericolosità idraulica elevata (I.3);

7 Risultati della modellazione idraulica

Le simulazione numerica delle correnti di piena condotte per eventi meteorici duecentennali e trentennali e per le durate di pioggia di 1, 2, 3, 4, 6, 8 e 12 ore, implementati con il programma Hec-Ras, hanno consentito di individuare, nei corsi d'acqua oggetto di studio, i tratti dove si verificano le esondazioni.

Inoltre, per ogni fronte di esondazione, è stata individuata la durata di pioggia che massimizza i volumi defluiti extra-alveo.

Gli idrogrammi corrispondenti al massimo volume esondato da ciascun fronte di esondazione sono stati propagati extra-alveo con il software Flo-2D.

Nella Tavola delle aree allagabili sono indicate le aree a pericolosità idraulica per eventi con tempo di ritorno trentennale e duecenttennale da cui si evincono le criticità idrauliche presenti nel territorio comunale di Torrita di Siena (vedesi l'Appendice 1 e l'Allegato contenenete gli outputs numerici delle simulazioni puramente bidimensionali effettuate in regime di moto vario).

8 Considerazioni conclusive

È però 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 esposti 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, all'eventuale approvazione di varianti al regolamento urbanistico, 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.

Infine, occorre evidenziare che i risultati qui esposti in termini di aree allagabili si riferiscono alla porzione di territorio individuata negli allegati con un poligono denominato "Perimetro aree di studio". Pertanto, nella presente relazione non è espressa alcuna valutazione circa la pericolosità idraulica della porzione di territorio non ricompresa all'interno del suddetto poligono di studio.

I tecnici incaricati

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

APPENDICE 1

Outputs grafici e numerici delle simulazioni effettuate con il package Hec-Ras.

CANALE ACORNIO

1) A TR_200 3H 2) A TR_30 3H

Acornio valle01 | Acornio valle | Acornio monte

N.B. in grigio sono indicati gli sfioratori laterali in destra idrografica

Legend

- WS Max WS - A TR_200 3H
- WS Max WS - A TR_30 3H
- Ground

Elevation (m)

290
280
270
260
250
240

21.25* 22 22.5* 23 23.3333* 23.6666* 24 26.2* 26.5* 26.8* 27.5 28.6666* 29.25* 29.625* 30 31.2* 31.5* 31.8* 32.1428* 32.5714* 33 34 35 38 38.6* 39.2* 39.8* 42.125* 42.5* 42.875* 43.2222* 43.5555* 43.8888* 45.2* 45.8* 46.1818* 46.4545* 46.7272* 47 48.2222* 48.5555* 48.8888* 49.3333* 49.8333* 51.125* 51.5* 51.875* 52.3333* 52.8333* 55.5 60.4 60.99 61.5* 62 62.5* 63 63.75* 65.1428* 65.5714* 66 66.3333* 66.6666* 67 67.375* 67.75* 68.1818* 68.4272* 68.6727* 68.9181* 69.2222* 69.5555* 69.8888* 70.55*

0 1000 2000 3000 4000 5000

Main Channel Distance (m)

1 cm Horiz. = 150 m 1 cm Vert. = 2 m

1) A TR_200 3H 2) A TR_30 3H

Acornio valle01 | Acornio valle | Acornio monte

N.B. in grigio sono indicati gli sfioratori laterali in sinistra idrografica

Legend

- WS Max WS - A TR_200 3H
- WS Max WS - A TR_30 3H
- Ground

Elevation (m)

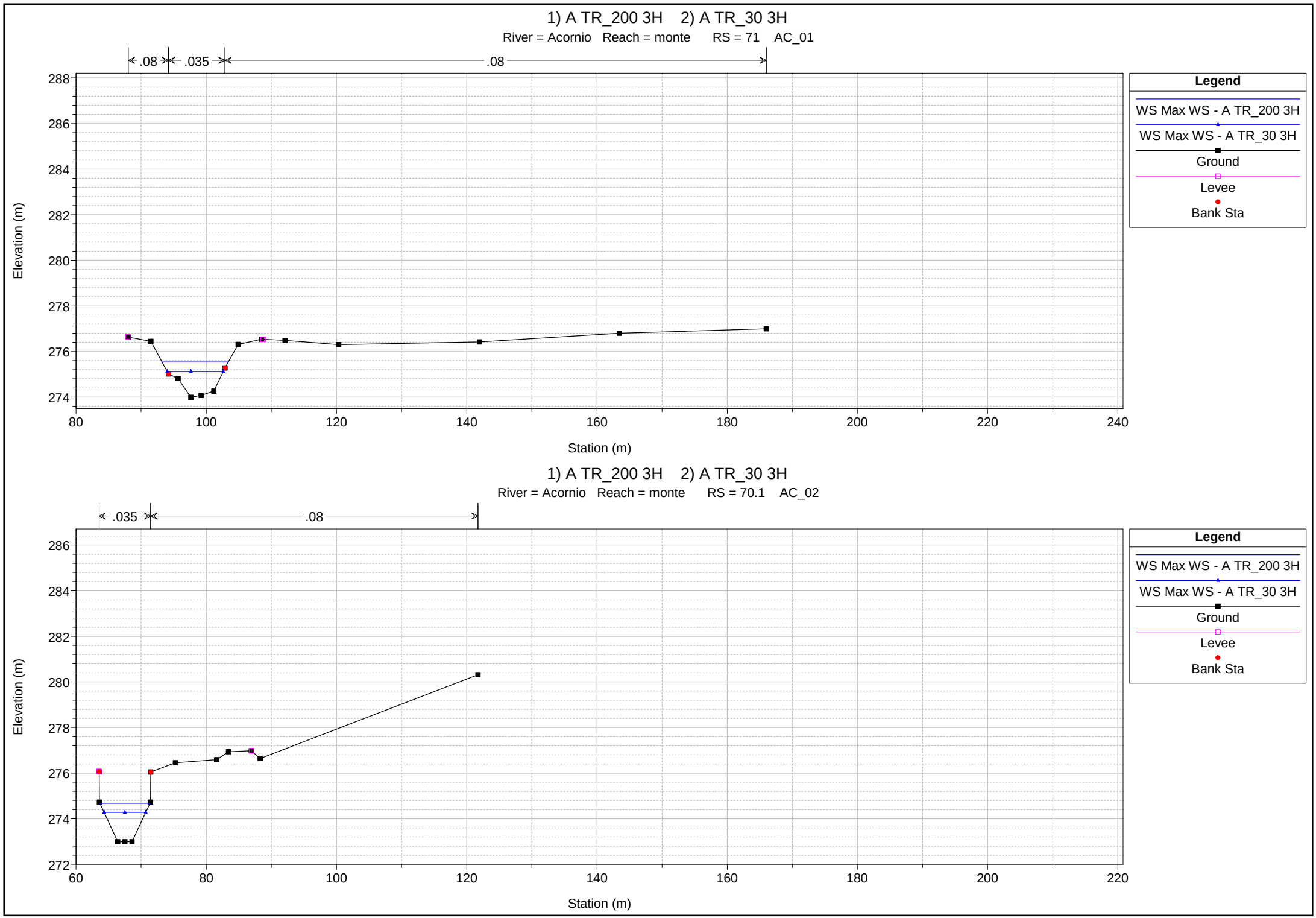
290
280
270
260
250
240

21.25* 22 22.5* 23 23.3333* 23.6666* 24 26.2* 26.5* 26.8* 27.5 28.6666* 29.25* 29.625* 30 31.2* 31.5* 31.8* 32.1428* 32.5714* 33 34 35 38 38.6* 39.2* 39.8* 42.125* 42.5* 42.875* 43.2222* 43.5555* 43.8888* 45.2* 45.8* 46.1818* 46.4545* 46.7272* 47 48.2222* 48.5555* 48.8888* 49.3333* 49.8333* 51.125* 51.5* 51.875* 52.3333* 52.8333* 55.5 60.4 60.99 61.5* 62 62.5* 63 63.75* 65.1428* 65.5714* 66 66.3333* 66.6666* 67 67.375* 67.75* 68.1818* 68.4272* 68.6727* 68.9181* 69.2222* 69.5555* 69.8888* 70.55*

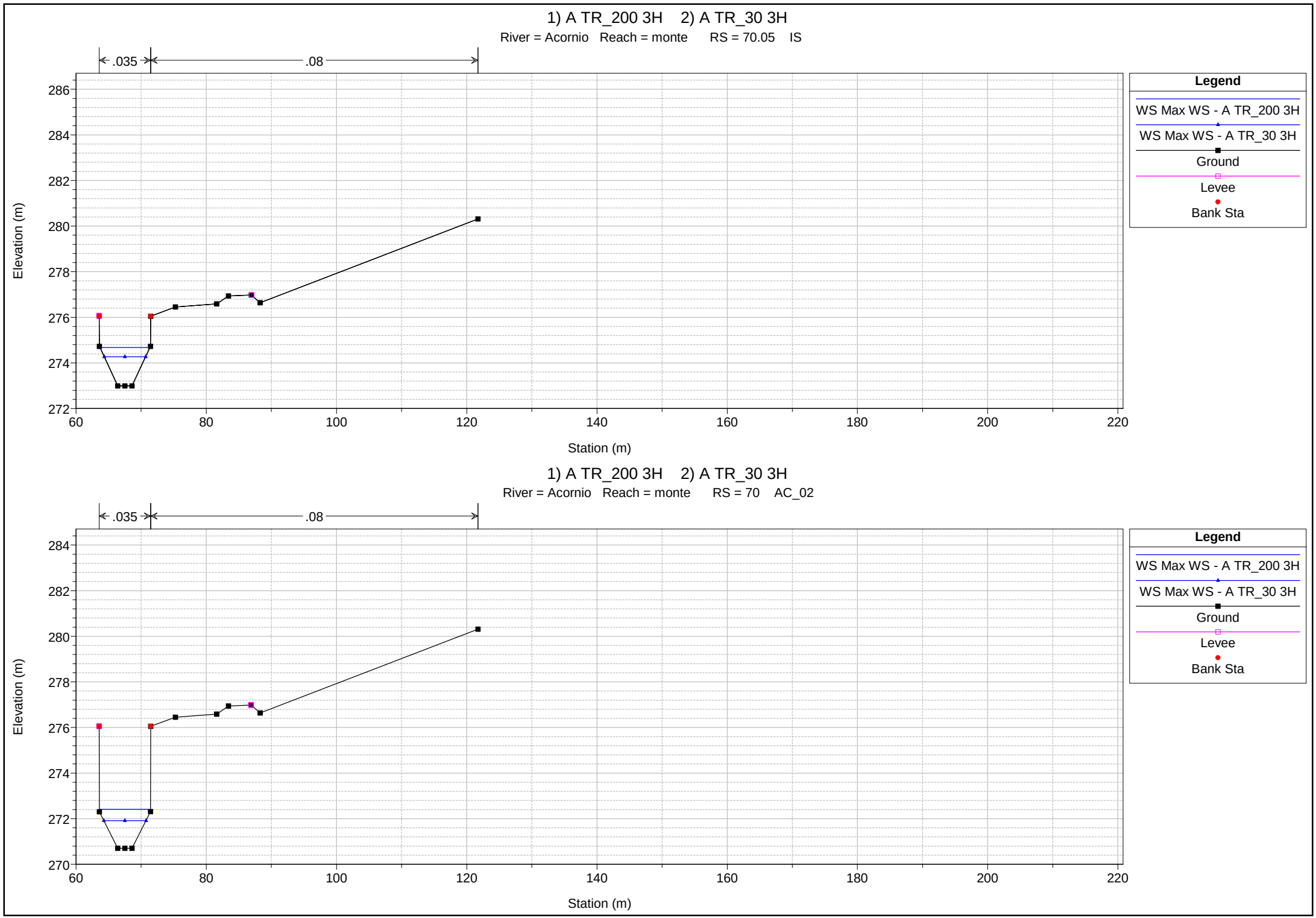
0 1000 2000 3000 4000 5000

Main Channel Distance (m)

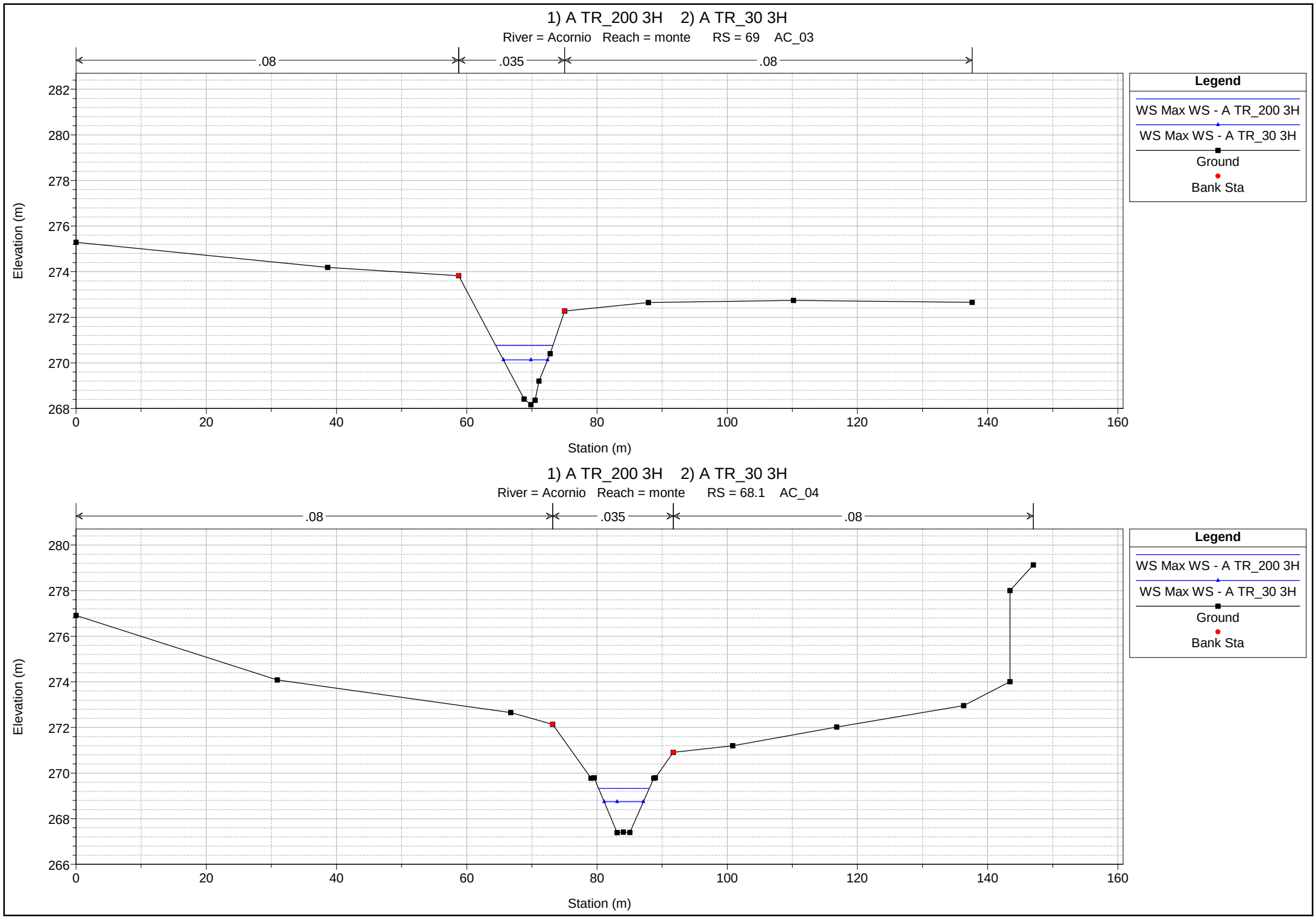
1 cm Horiz. = 150 m 1 cm Vert. = 2 m



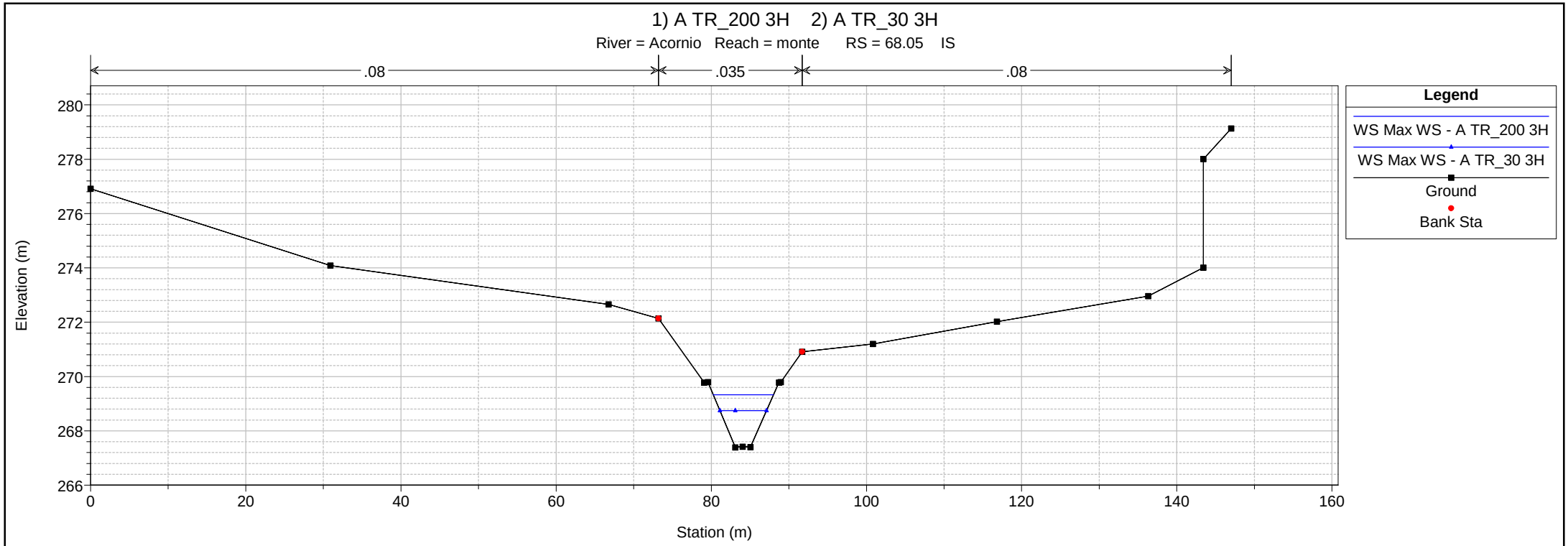
1 cm Horiz. = 7 m 1 cm Vert. = 2 m

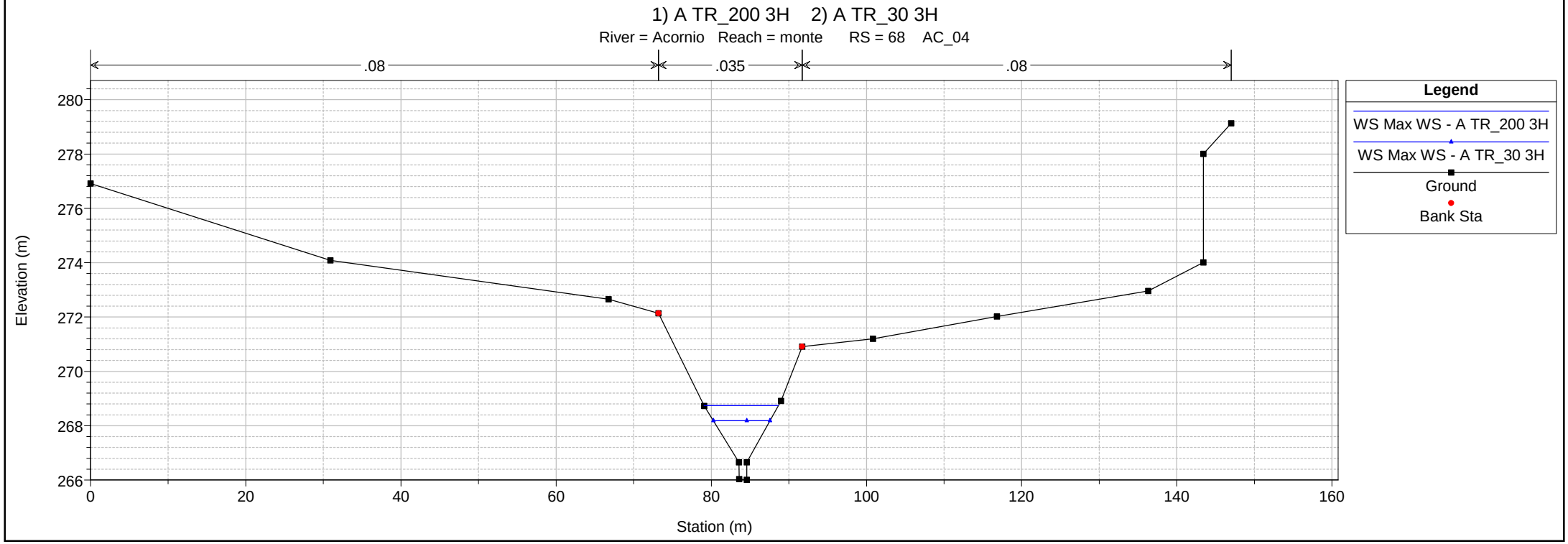


1 cm Horiz. = 7 m 1 cm Vert. = 2 m

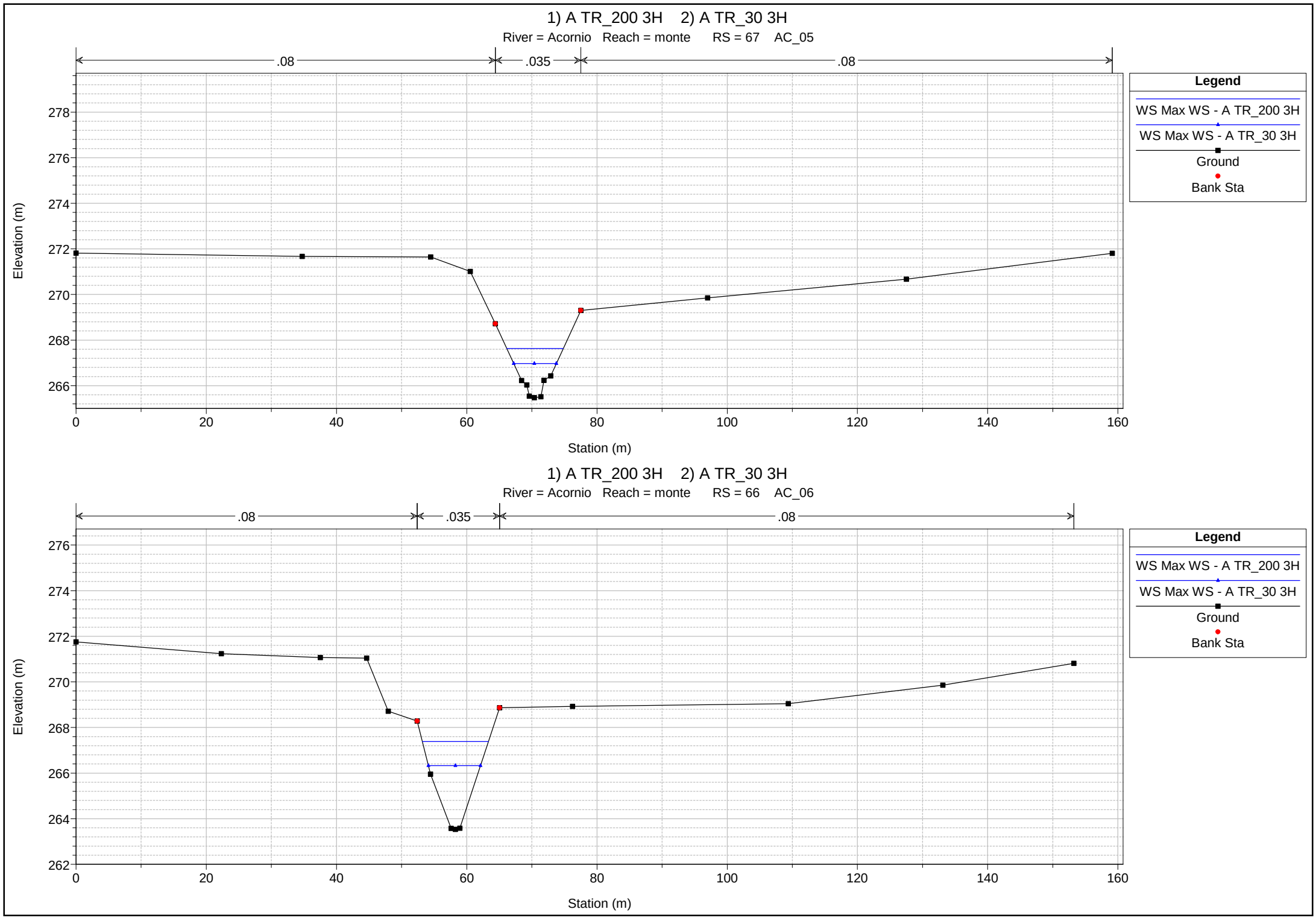


1 cm Horiz. = 7 m 1 cm Vert. = 2 m

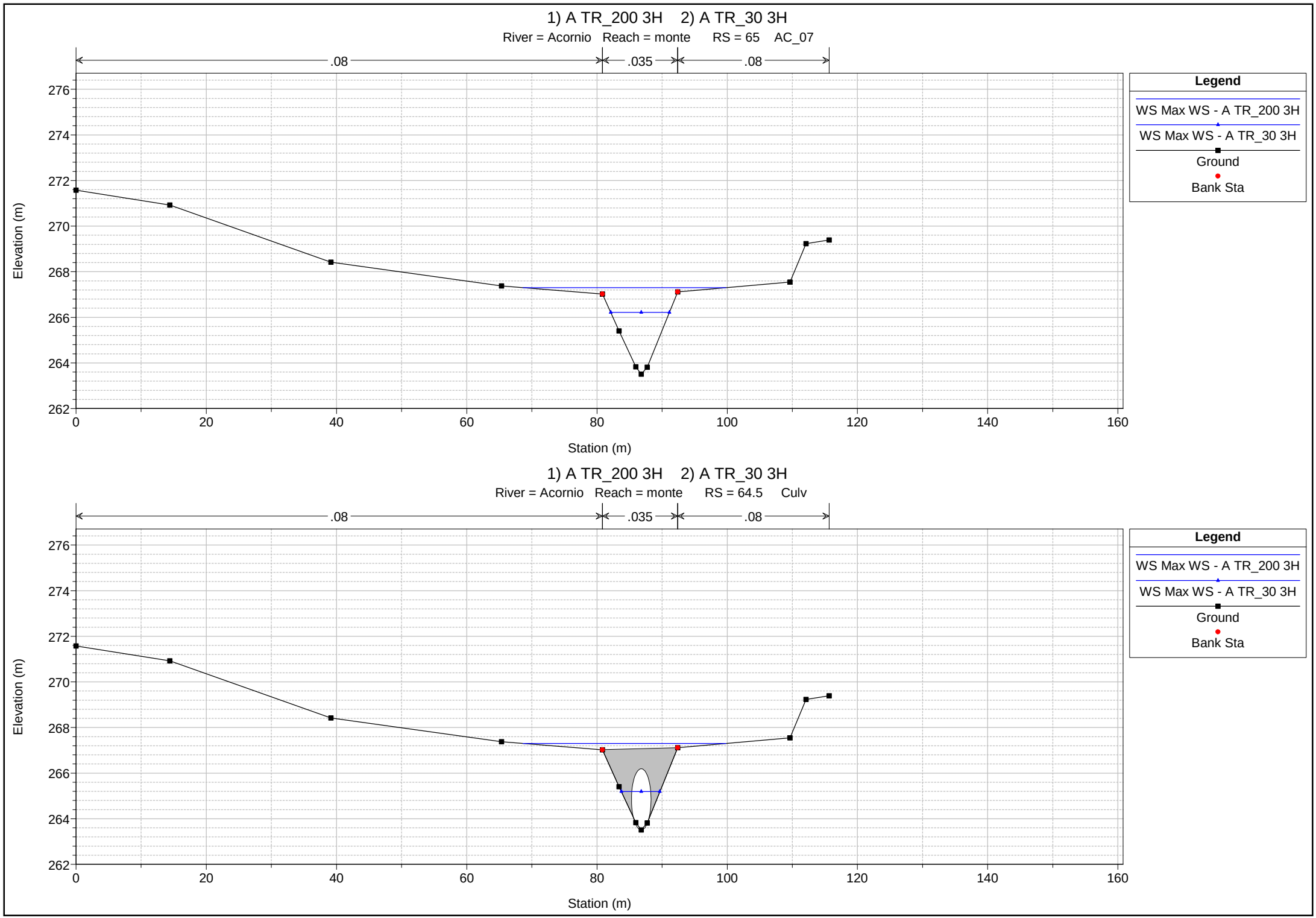




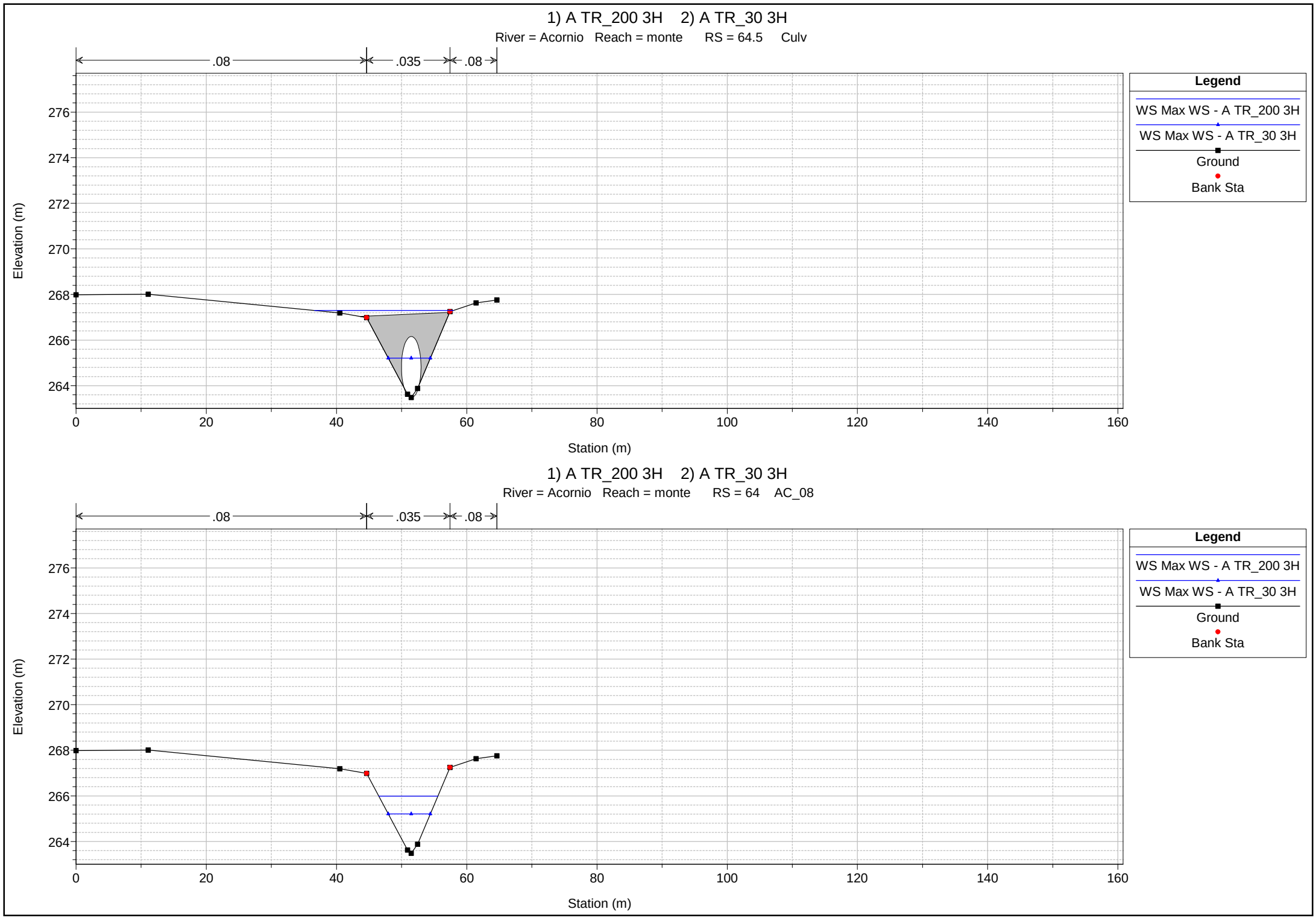
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



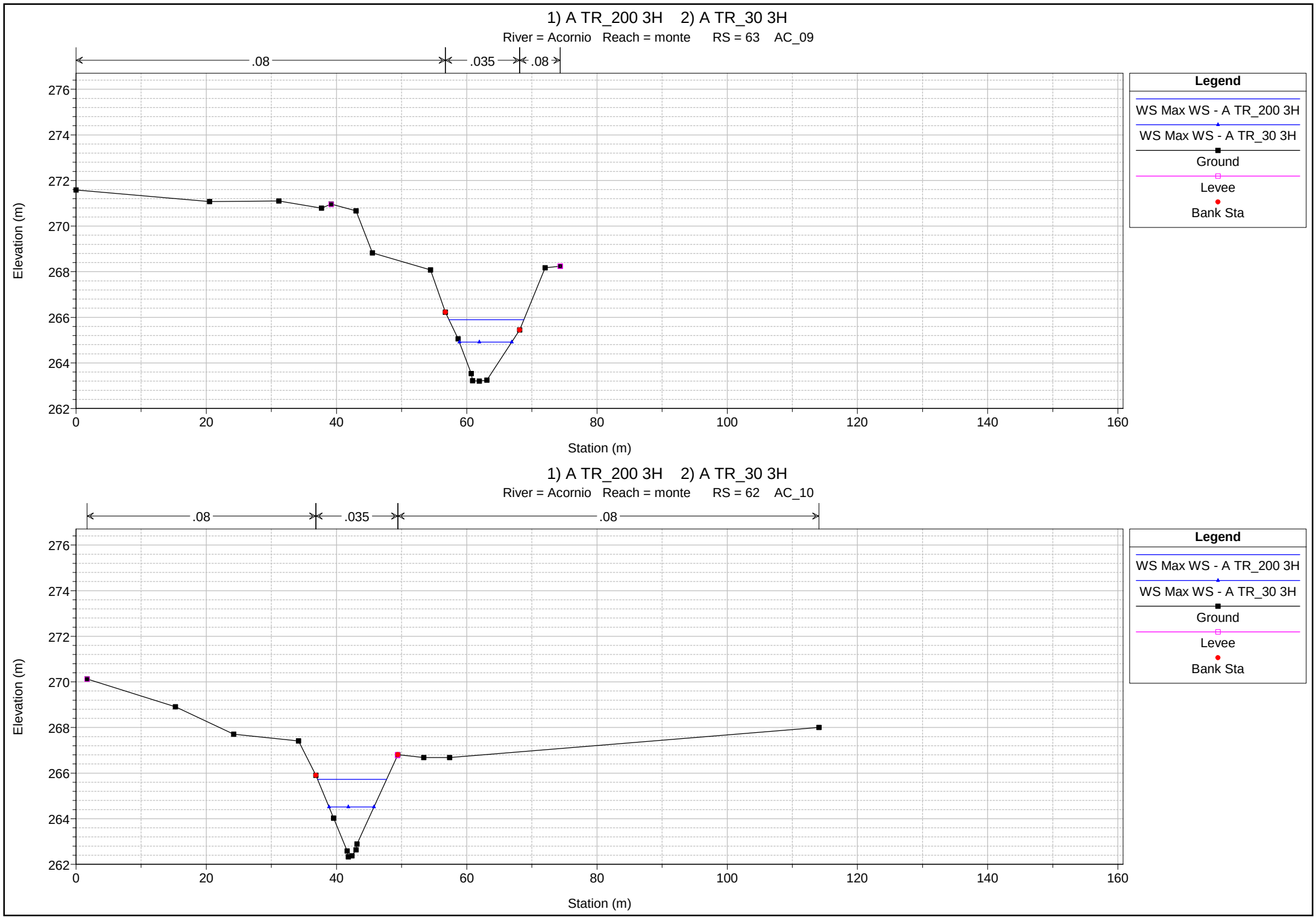
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



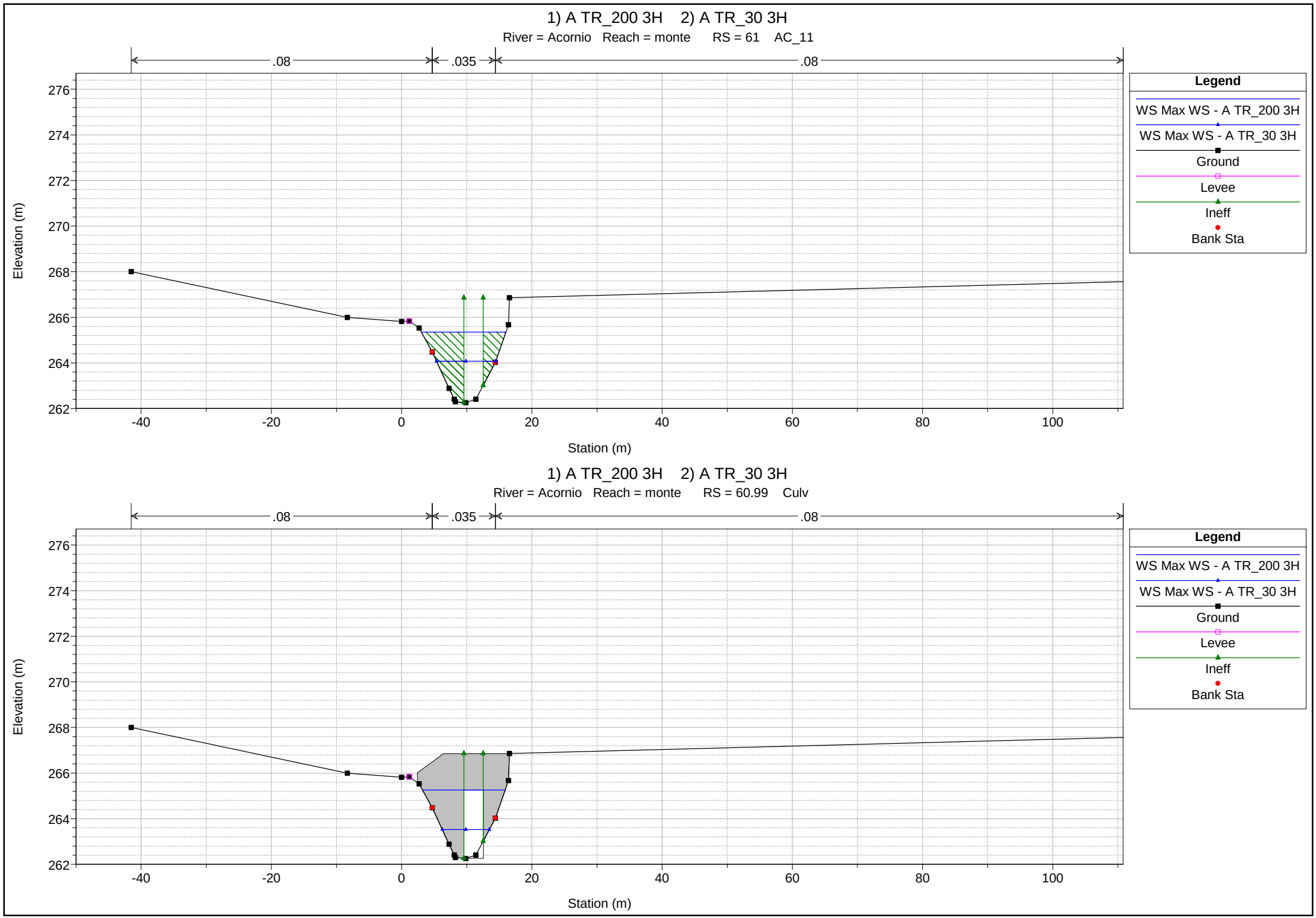
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



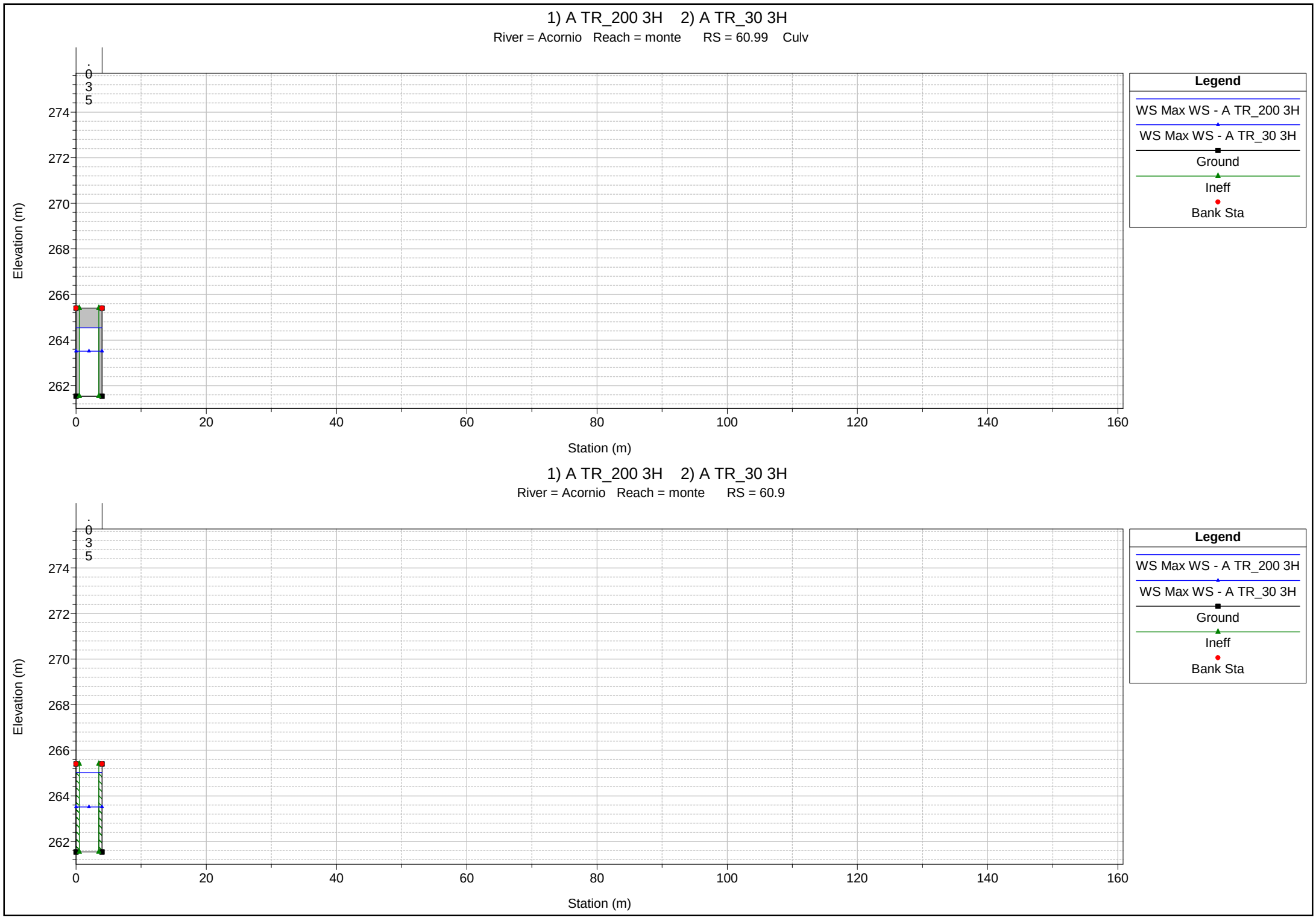
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



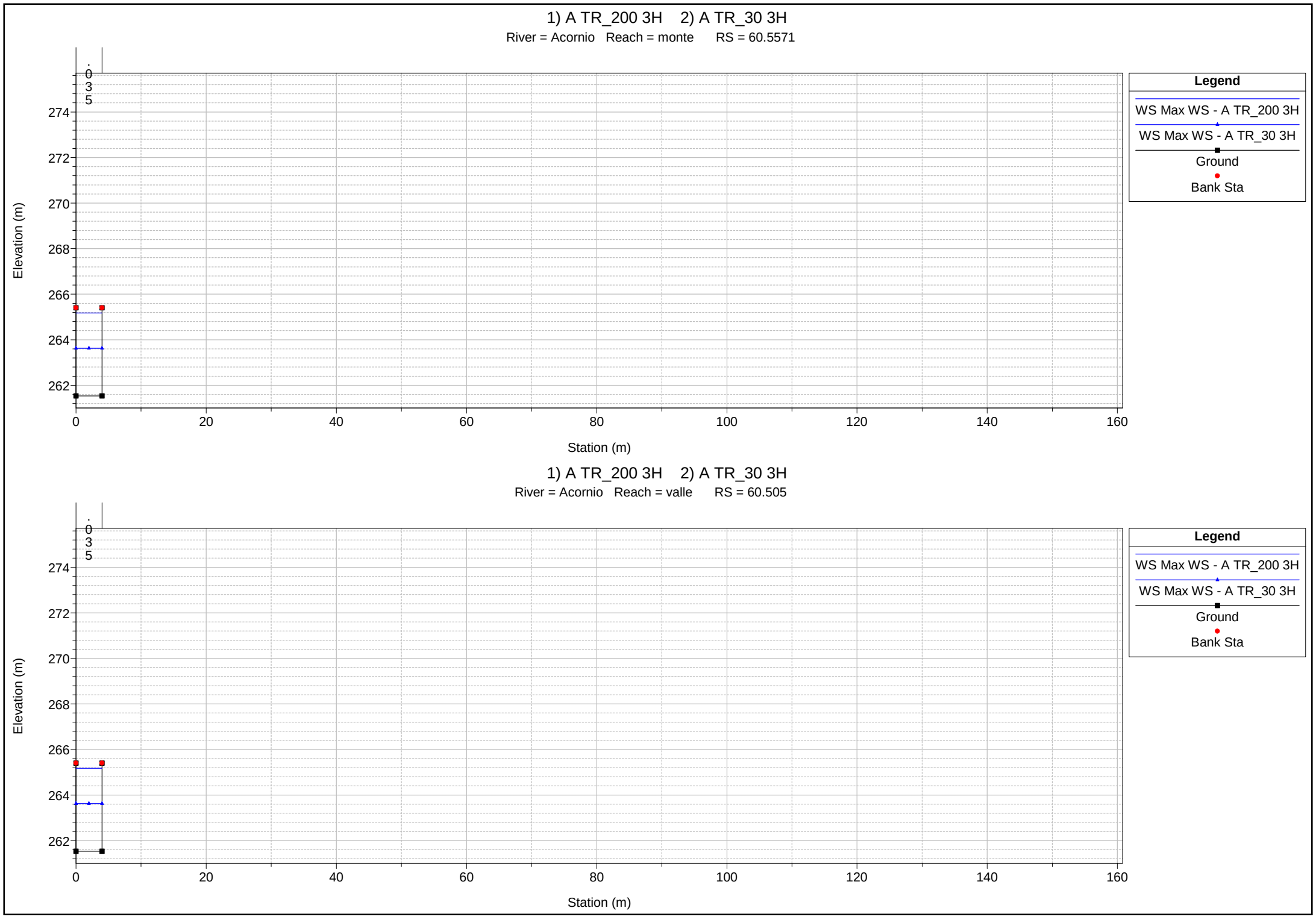
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



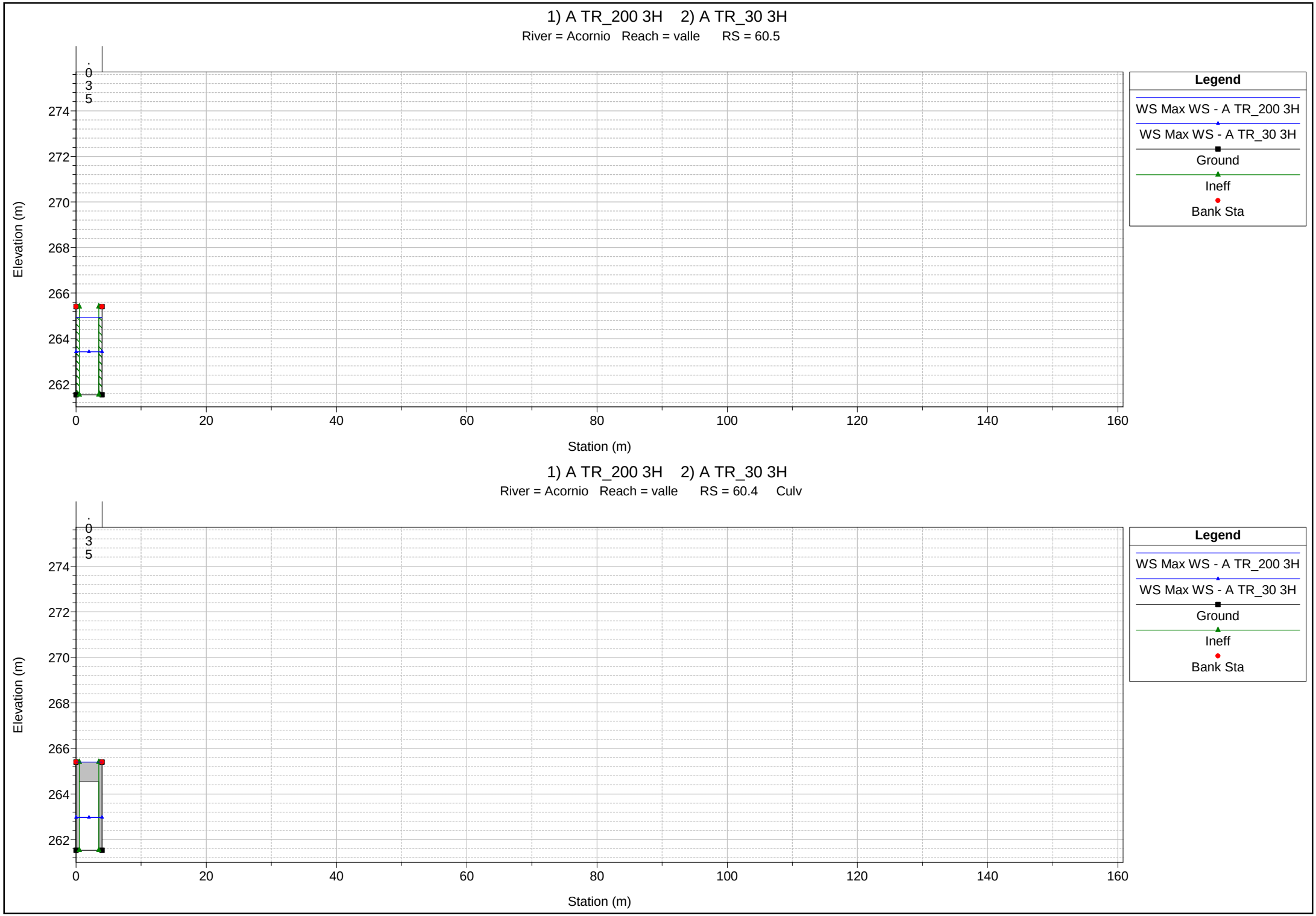
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



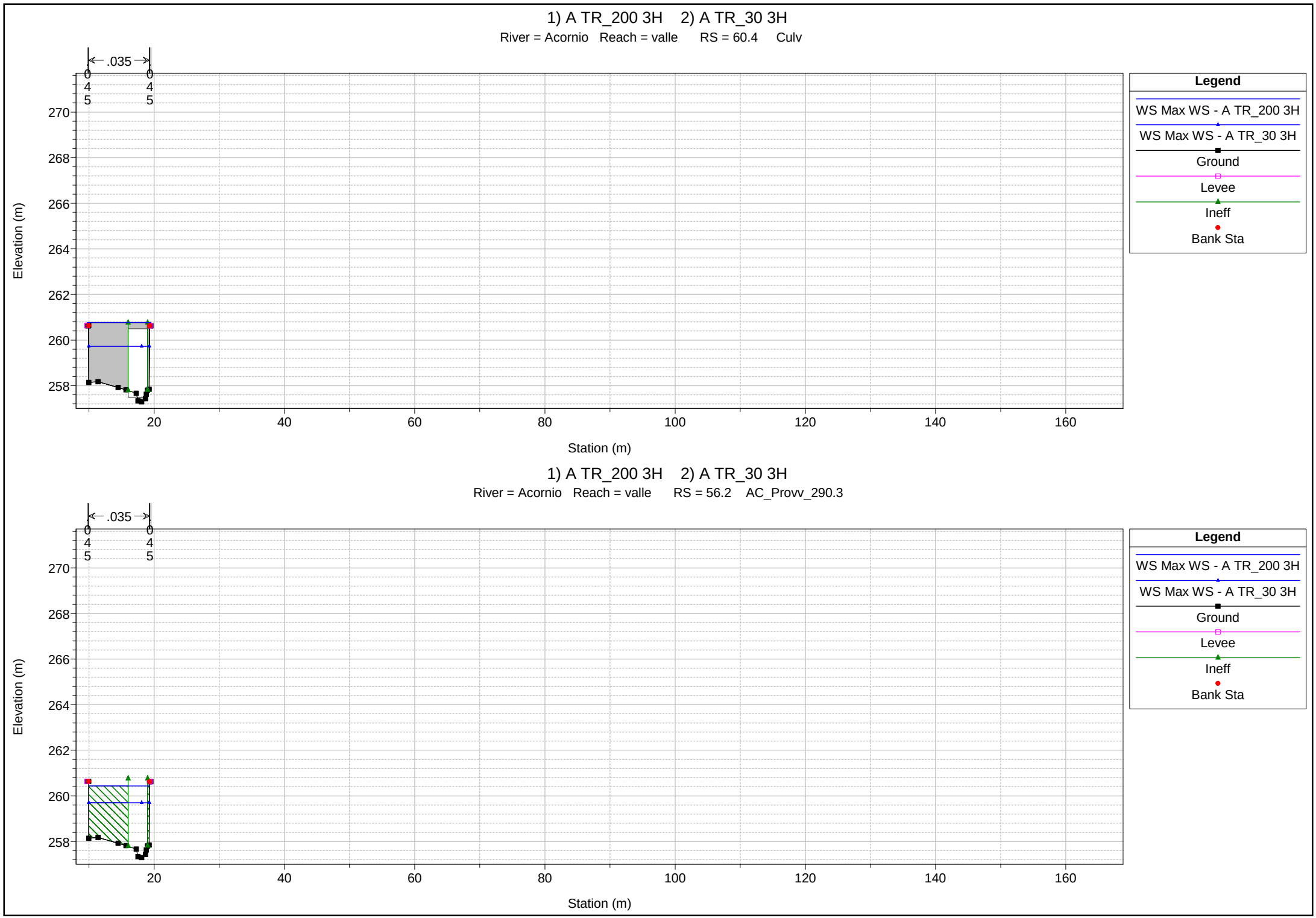
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



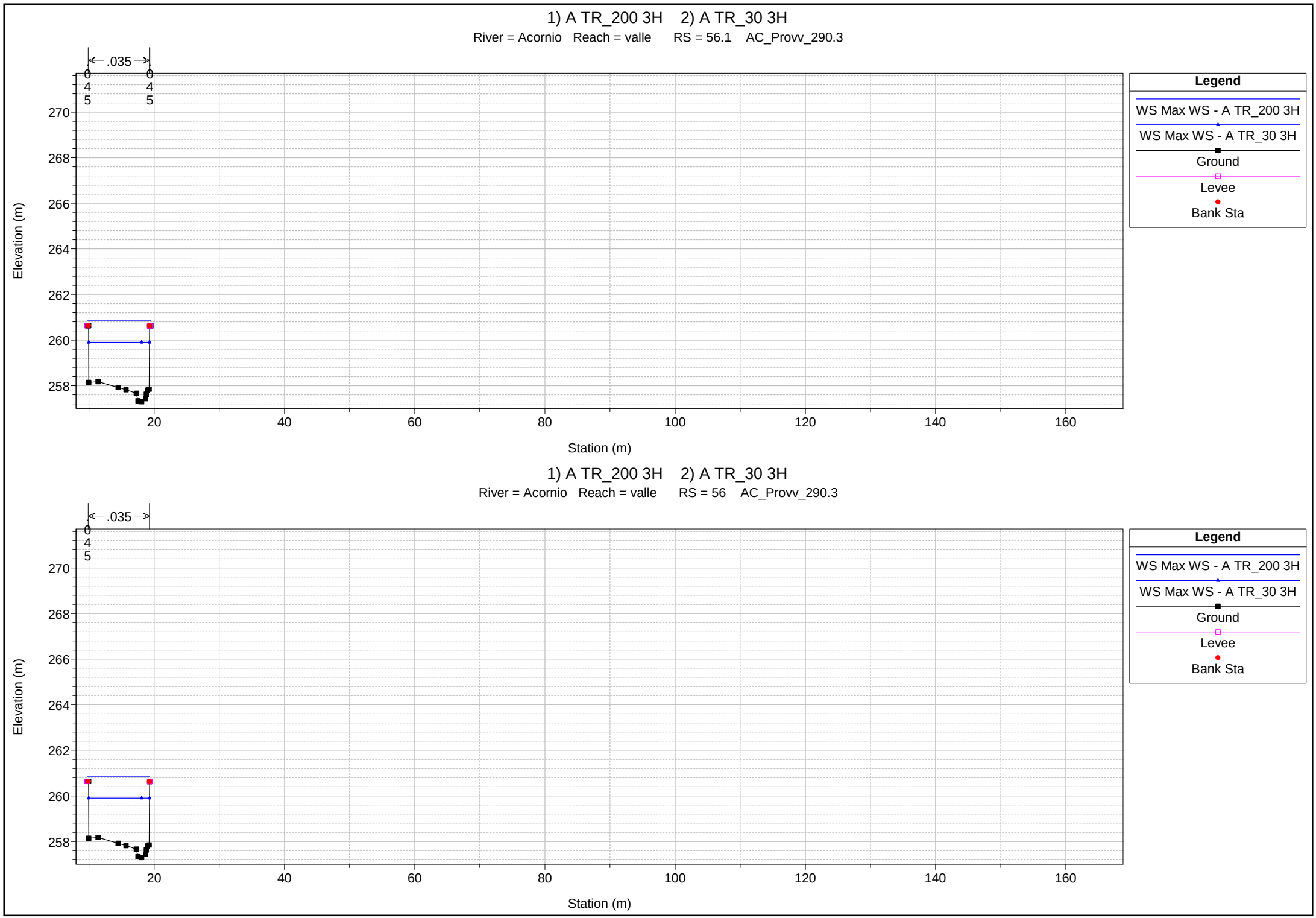
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



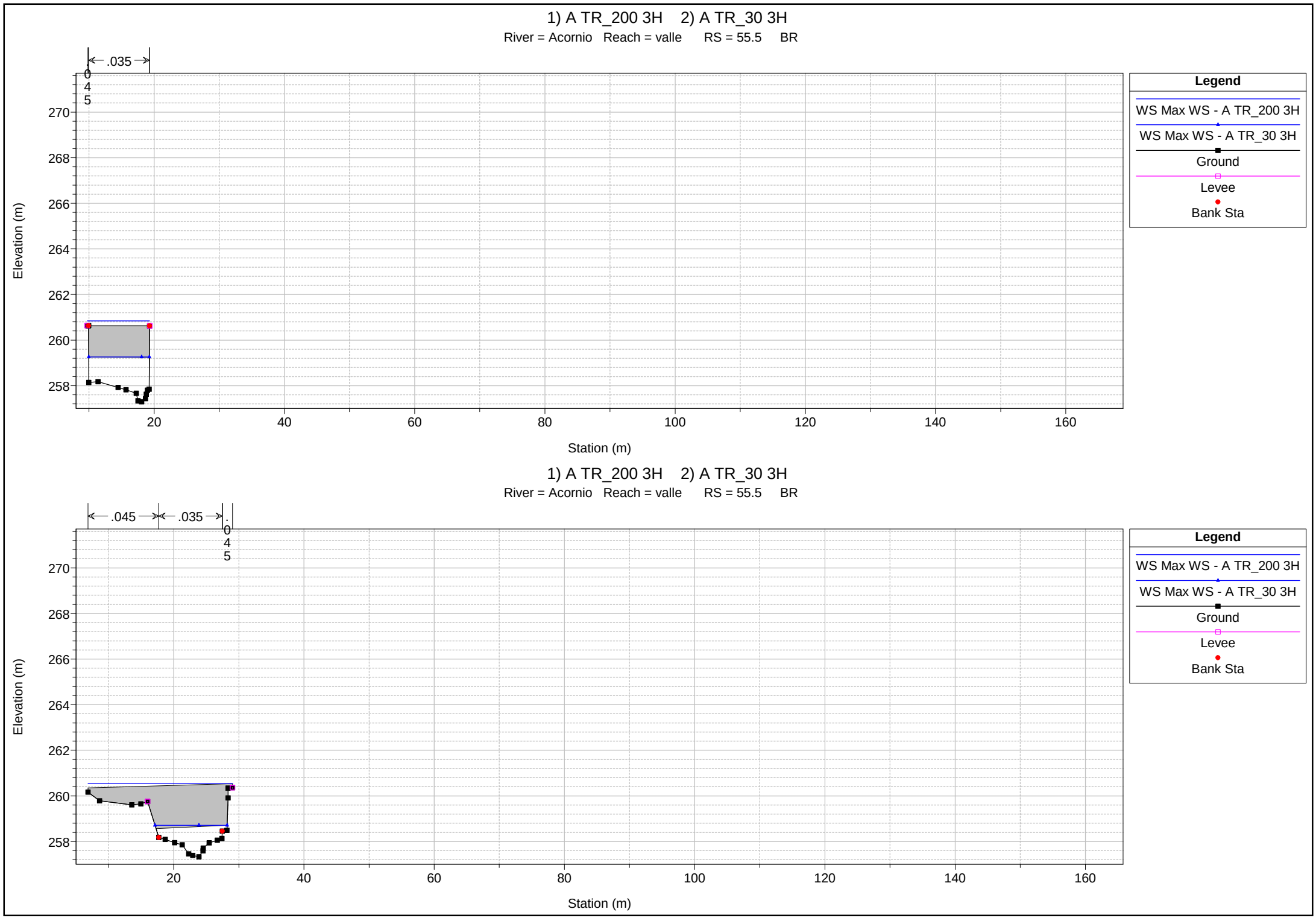
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



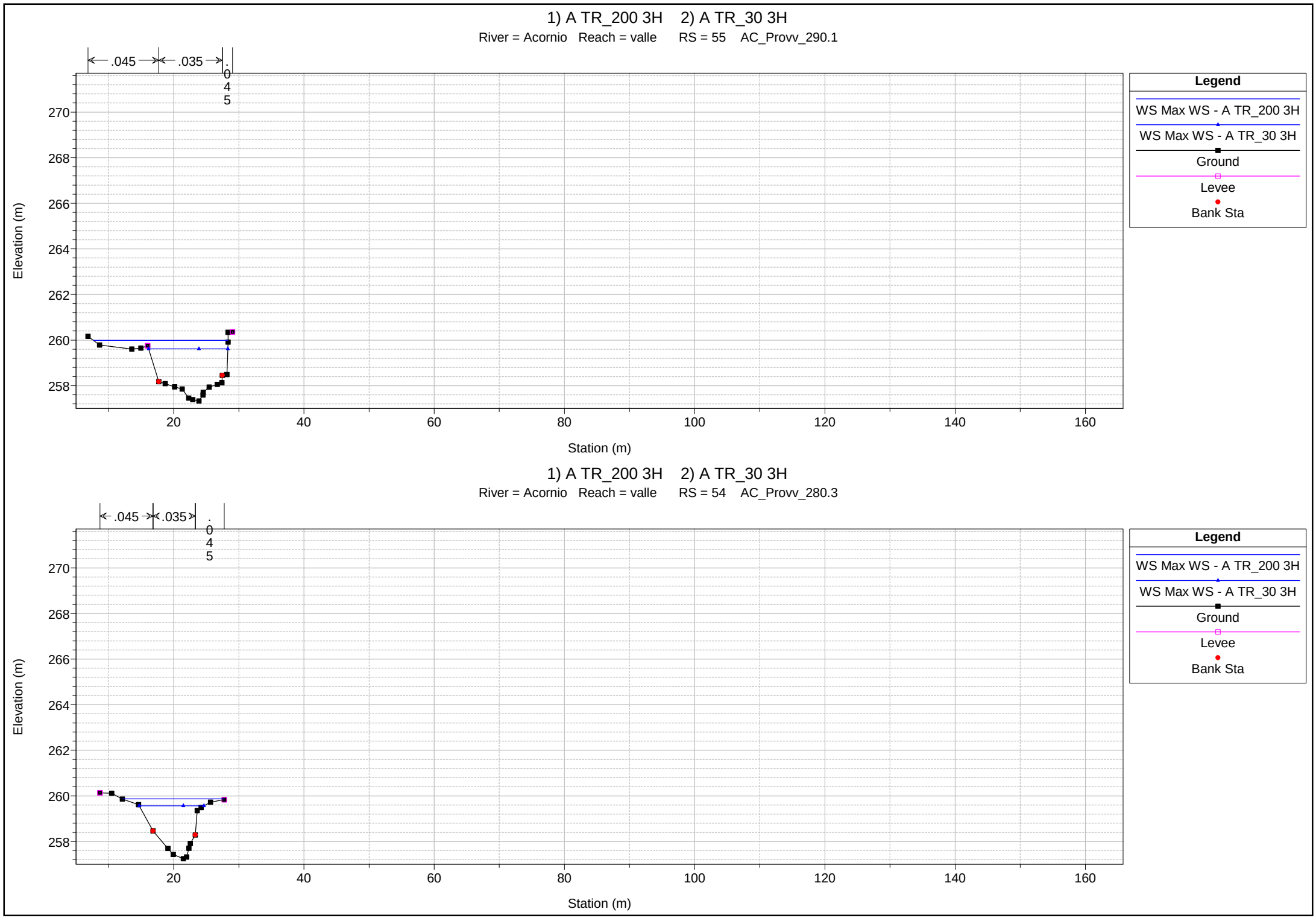
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



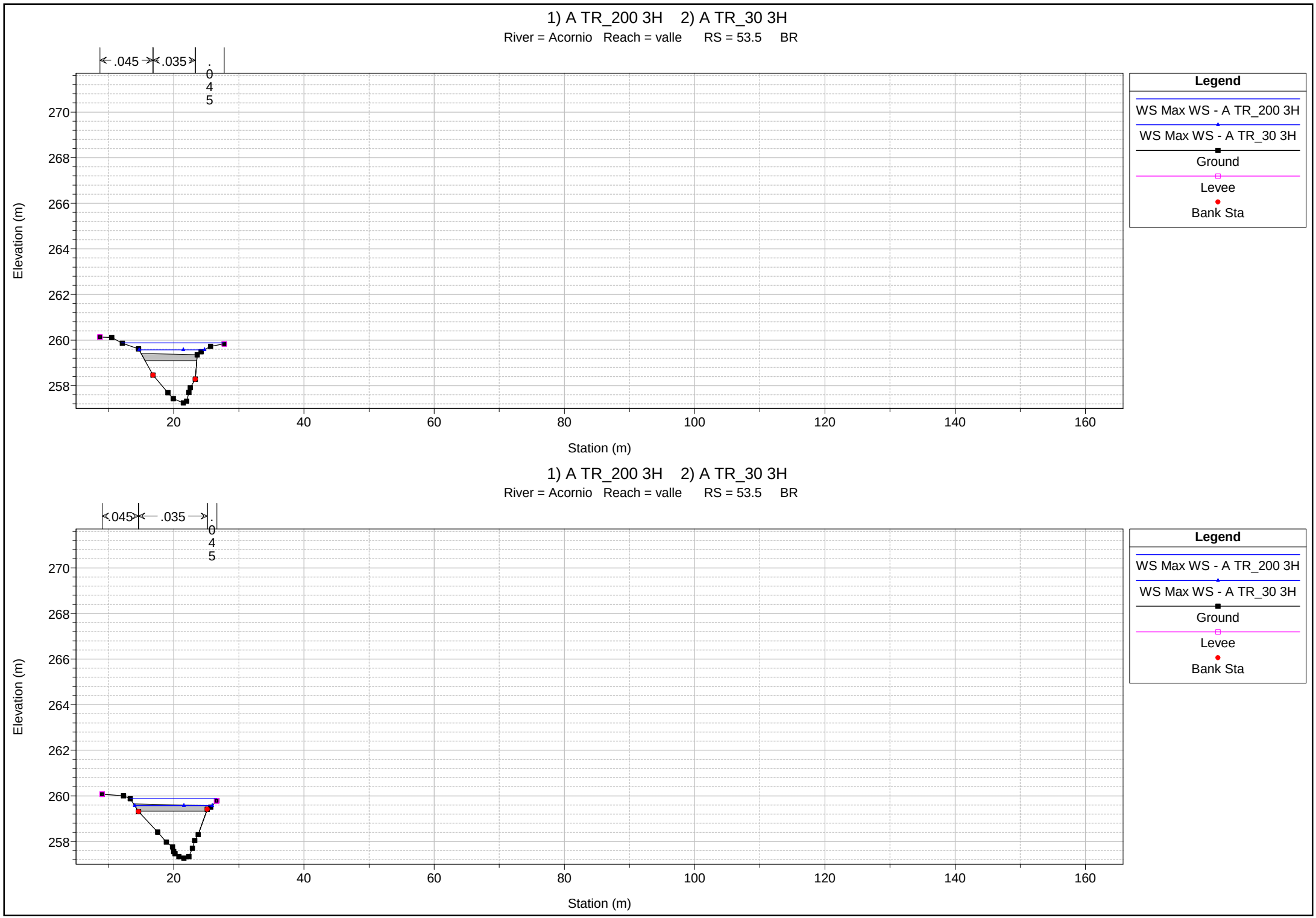
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



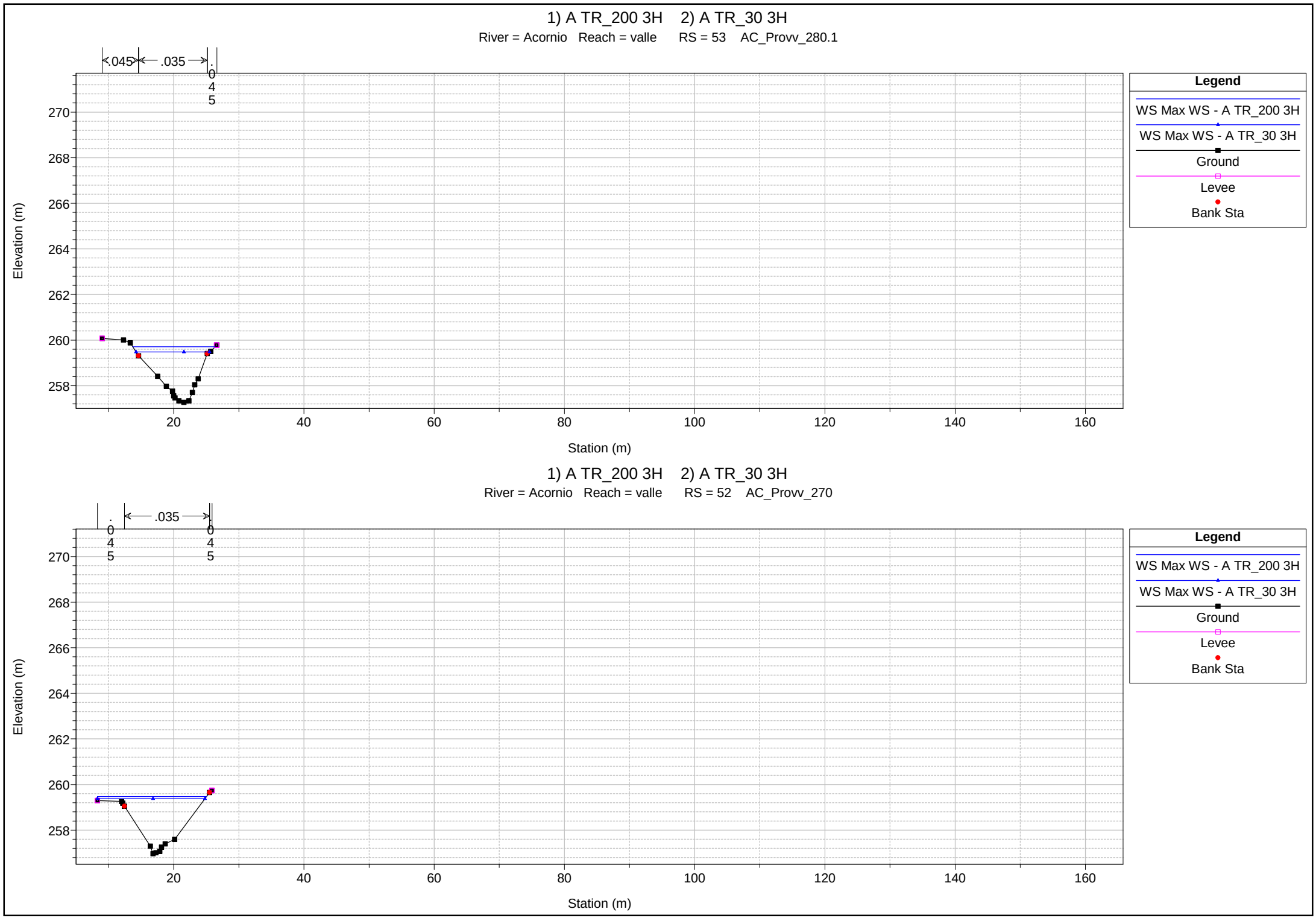
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m



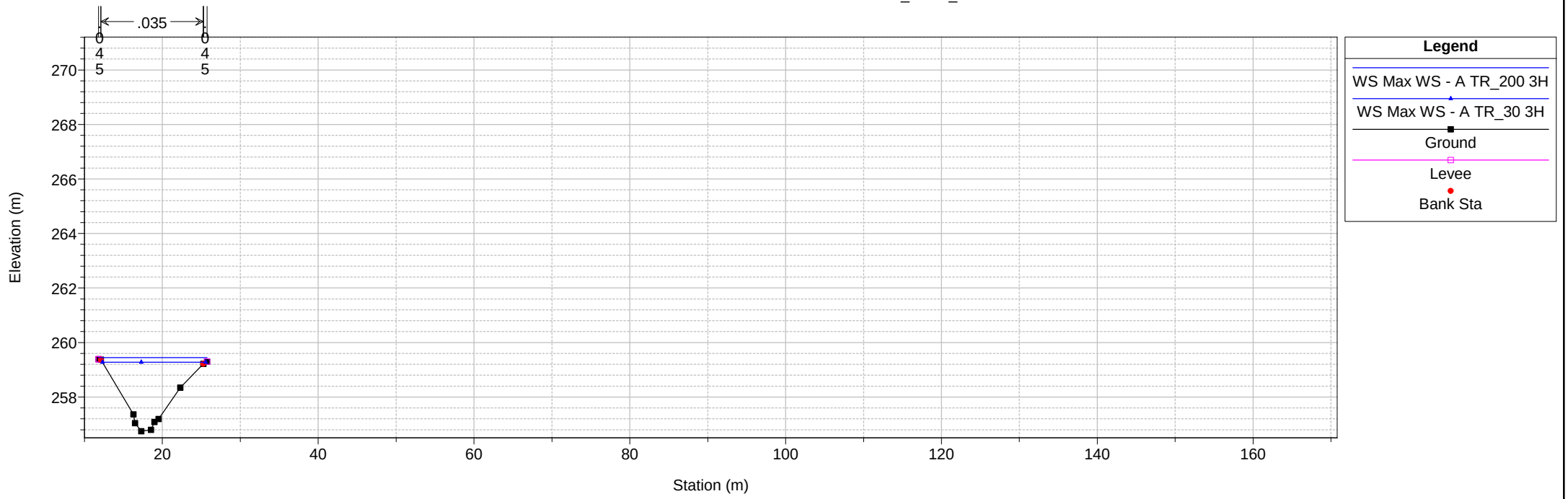
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

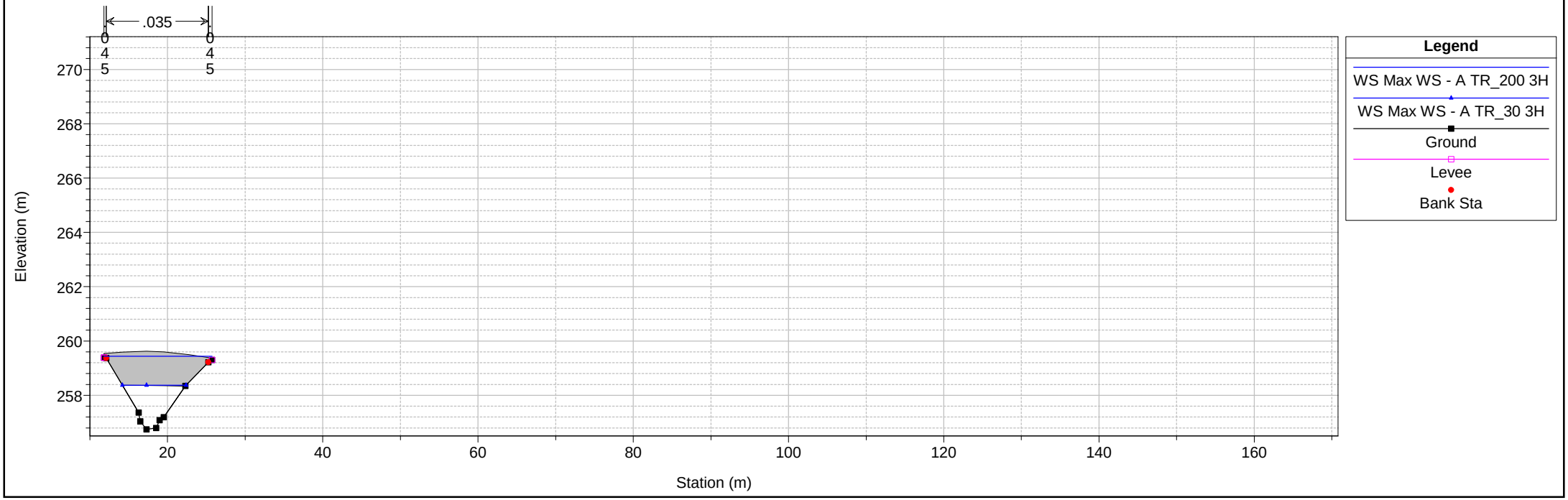
1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle RS = 51 AC_Provv_260.3

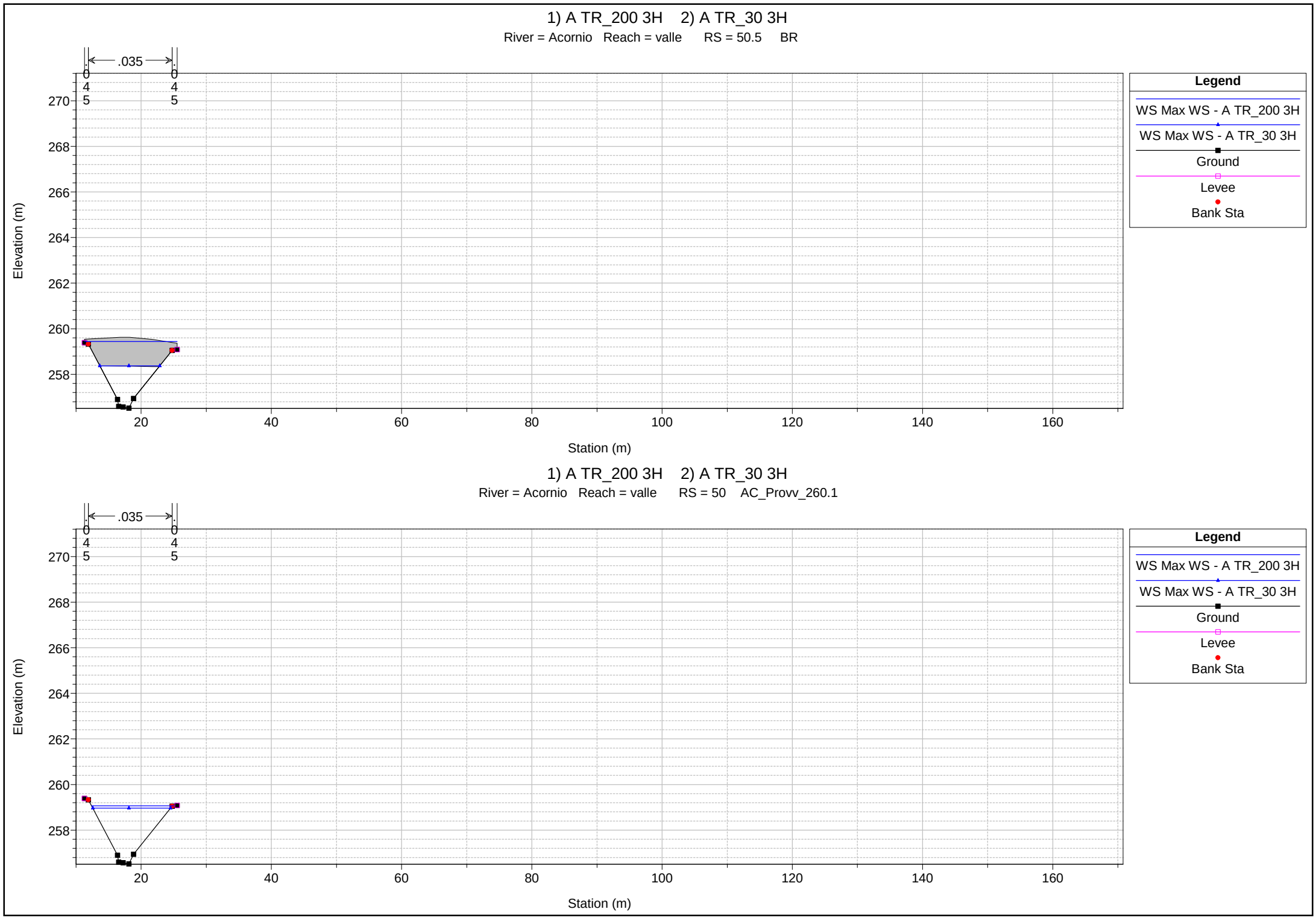


1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle RS = 50.5 BR



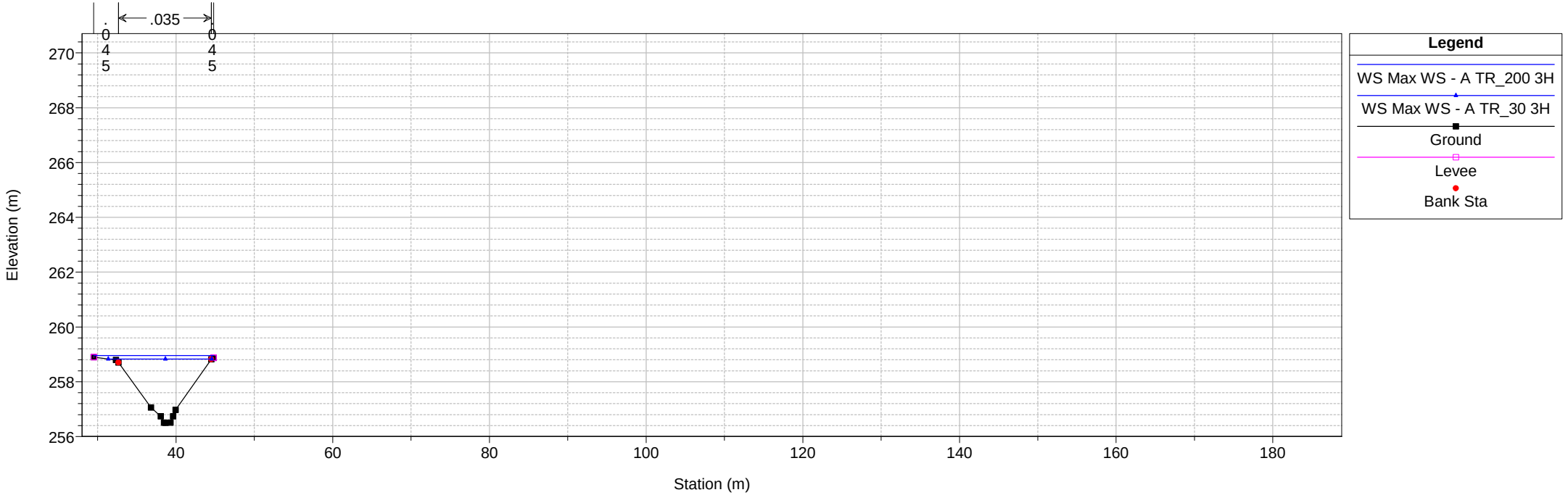
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

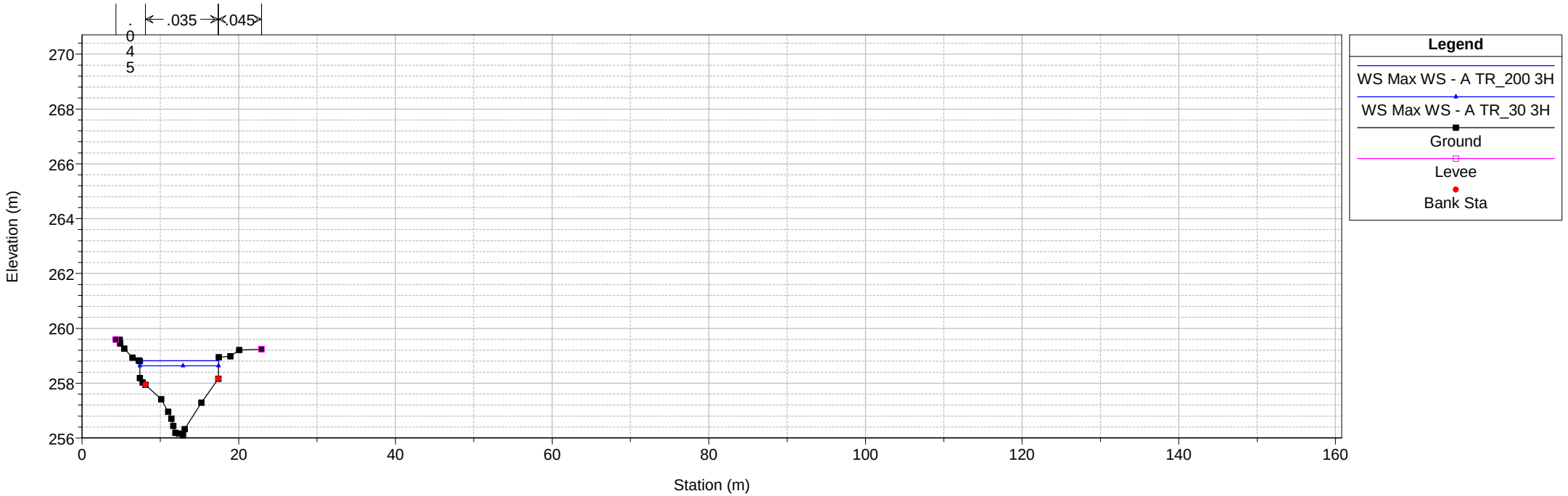
1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle RS = 49 AC_Provv_255

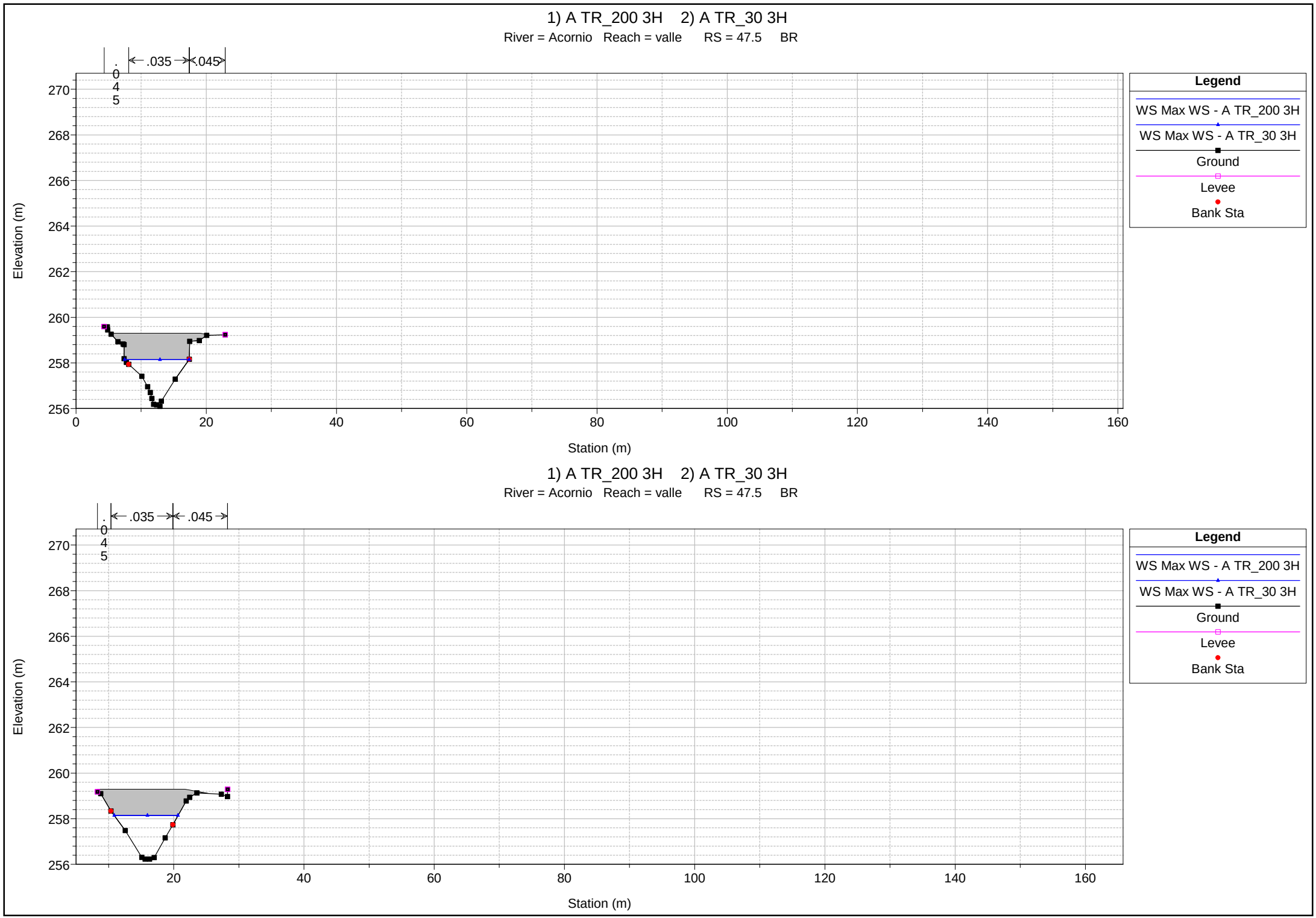


1) A TR_200 3H 2) A TR_30 3H

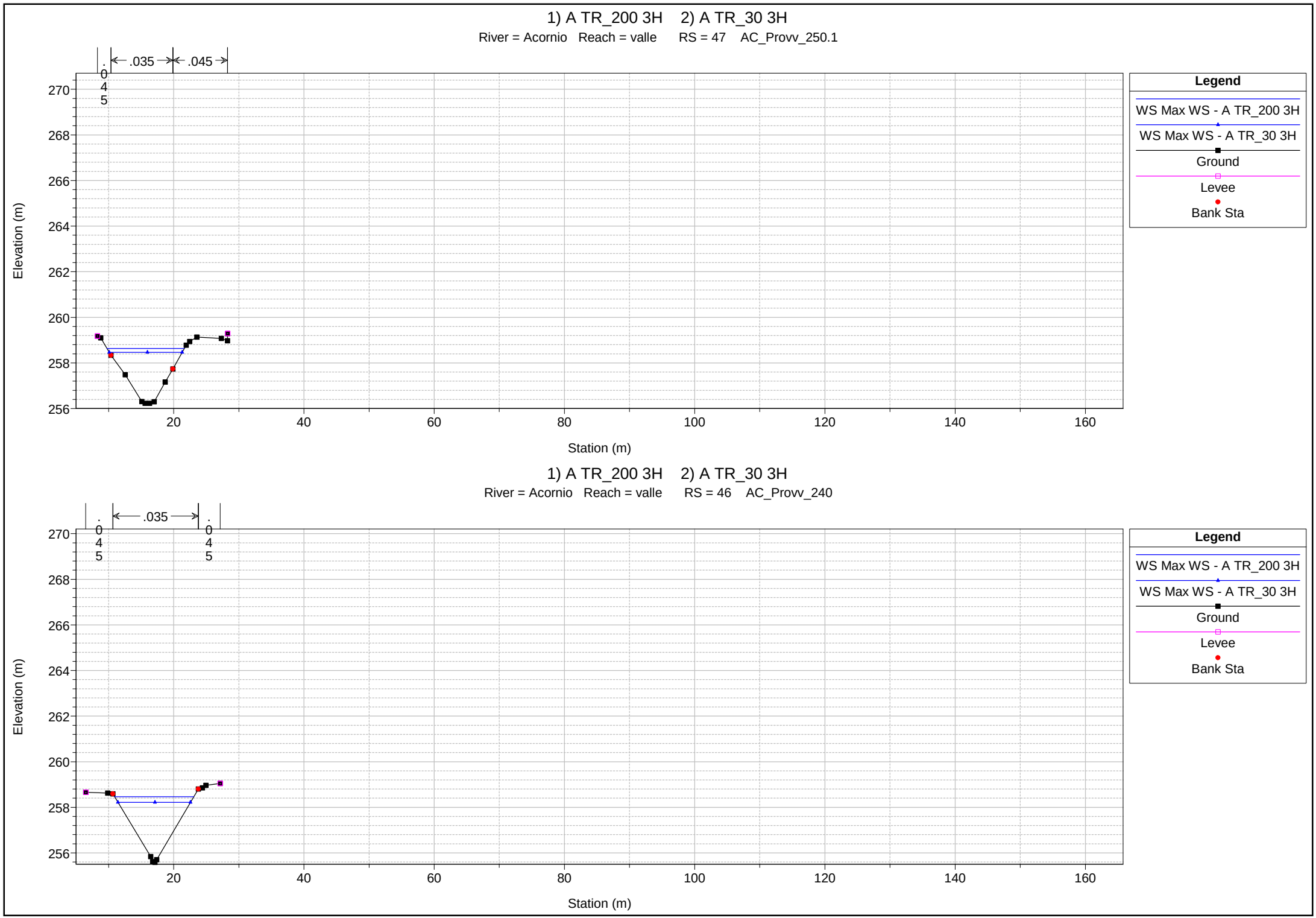
River = Acornio Reach = valle RS = 48 AC_Provv_250.3



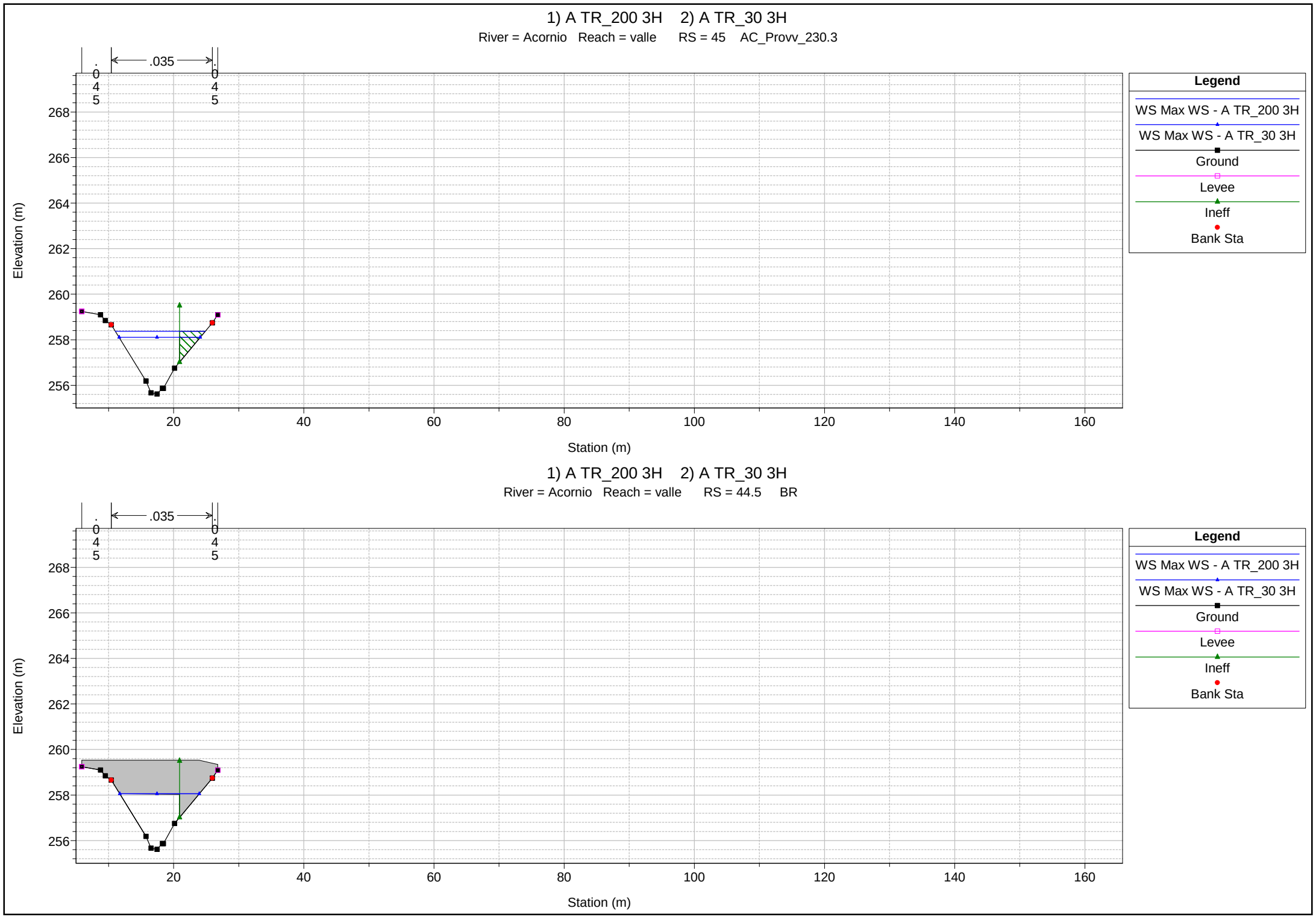
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m



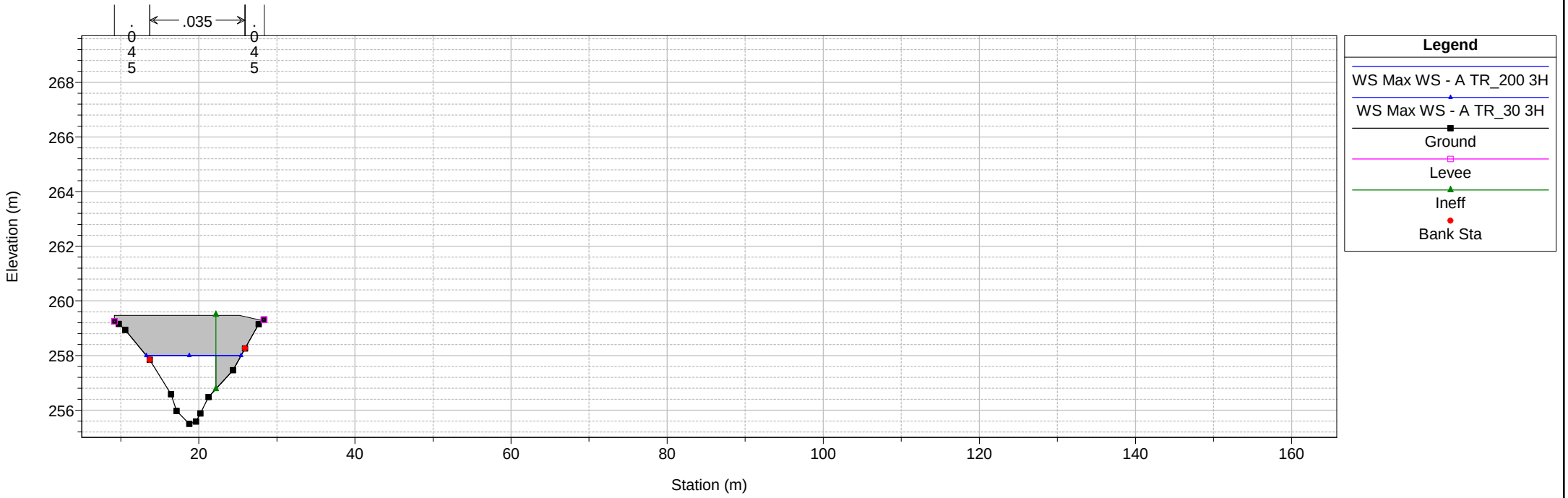
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

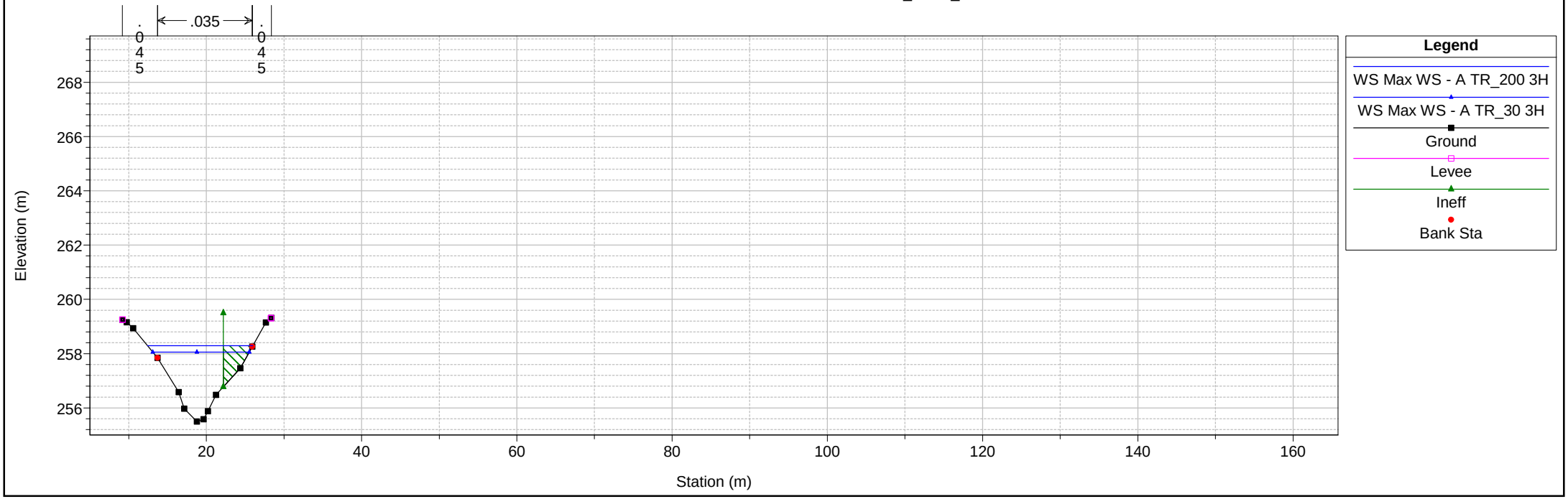
1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle RS = 44.5 BR

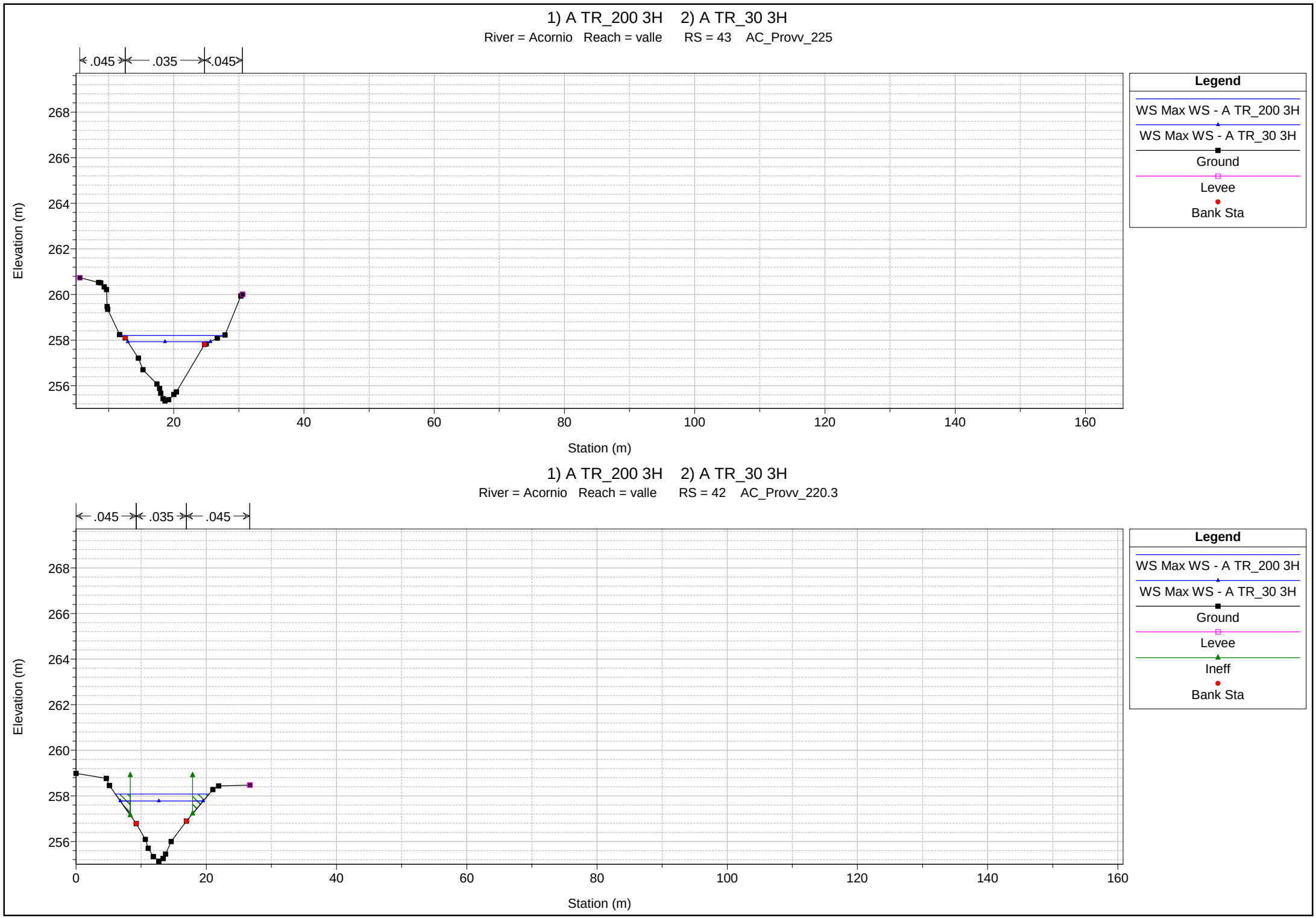


1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle RS = 44 AC_Provv_230.1



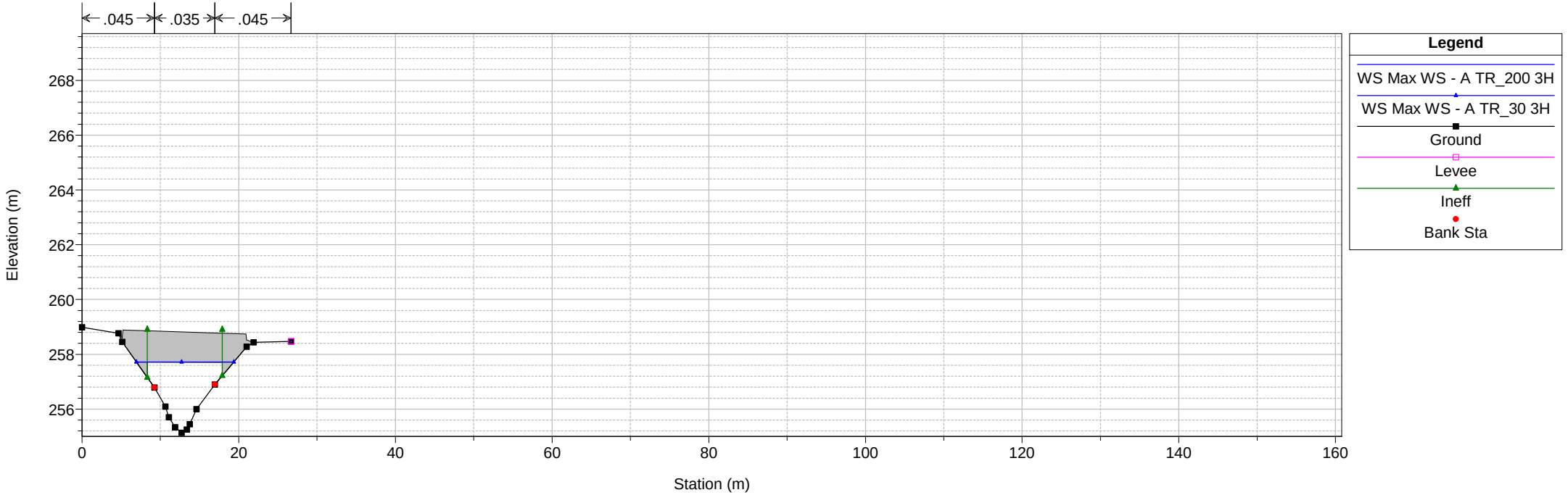
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

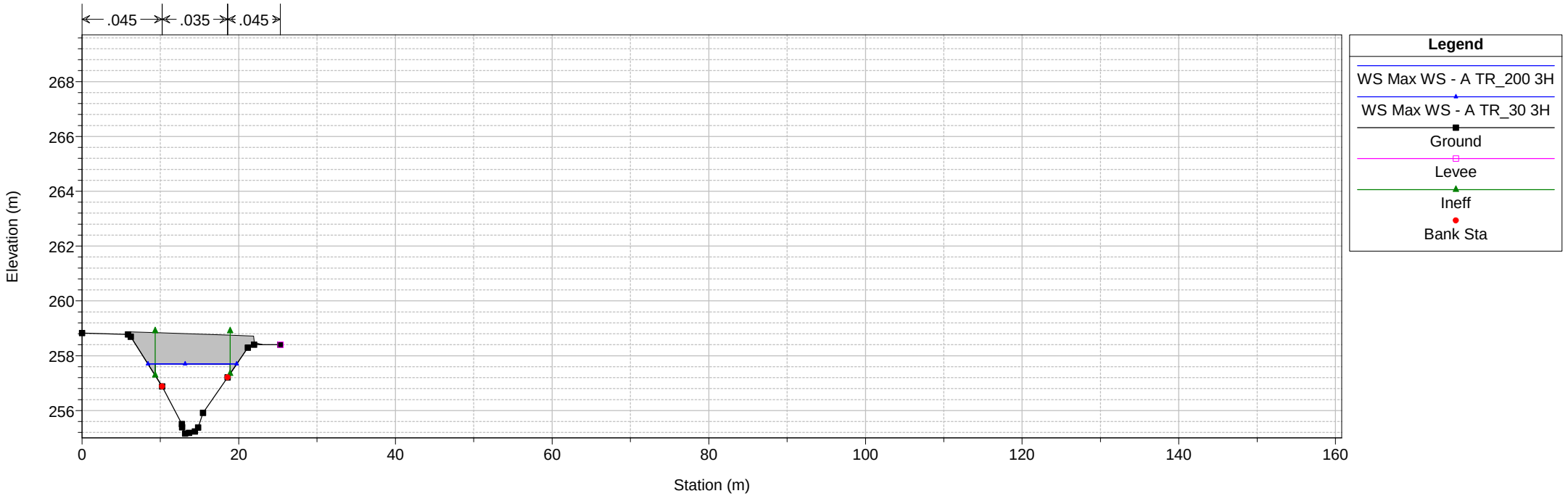
1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle RS = 41.5 BR

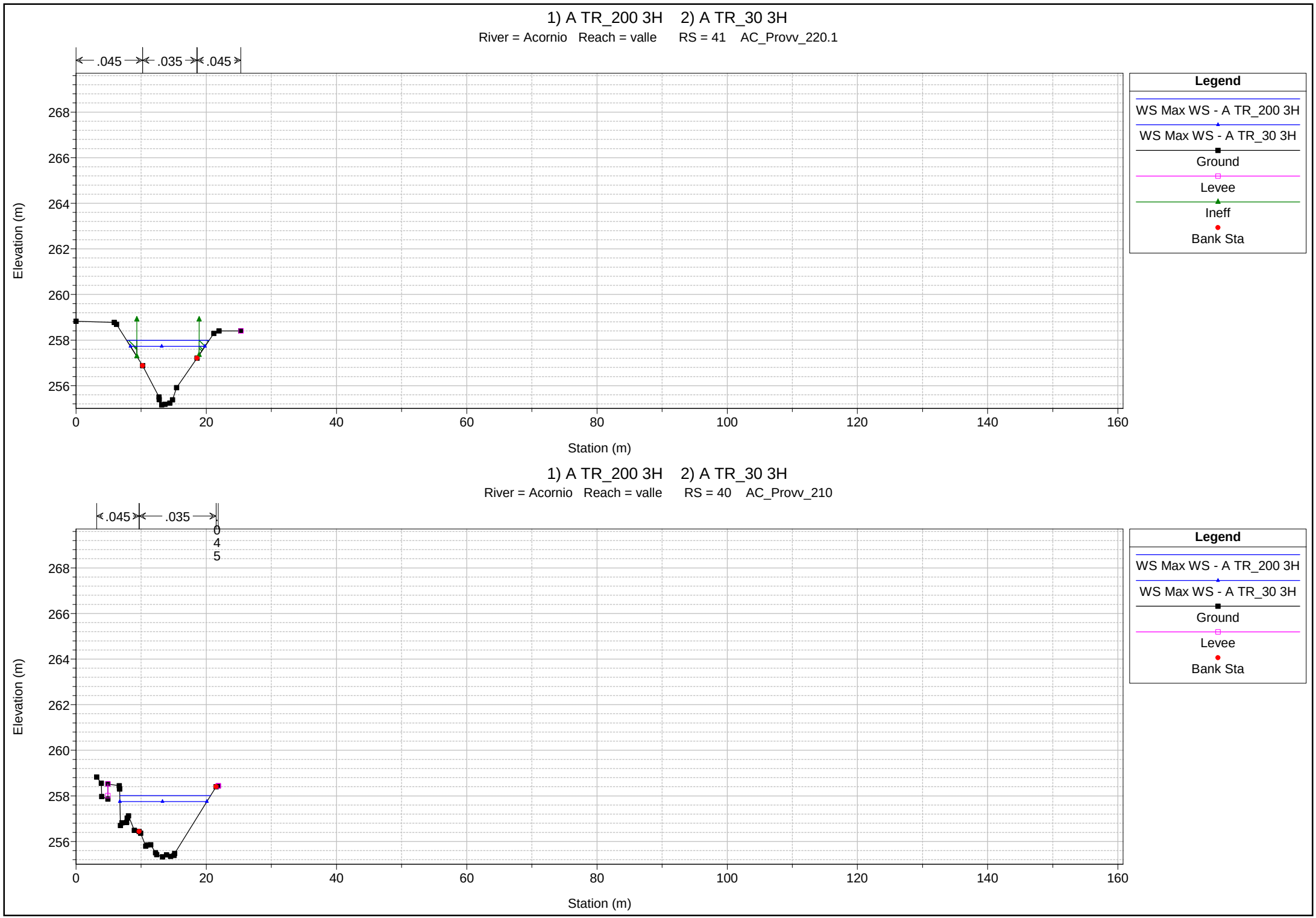


1) A TR_200 3H 2) A TR_30 3H

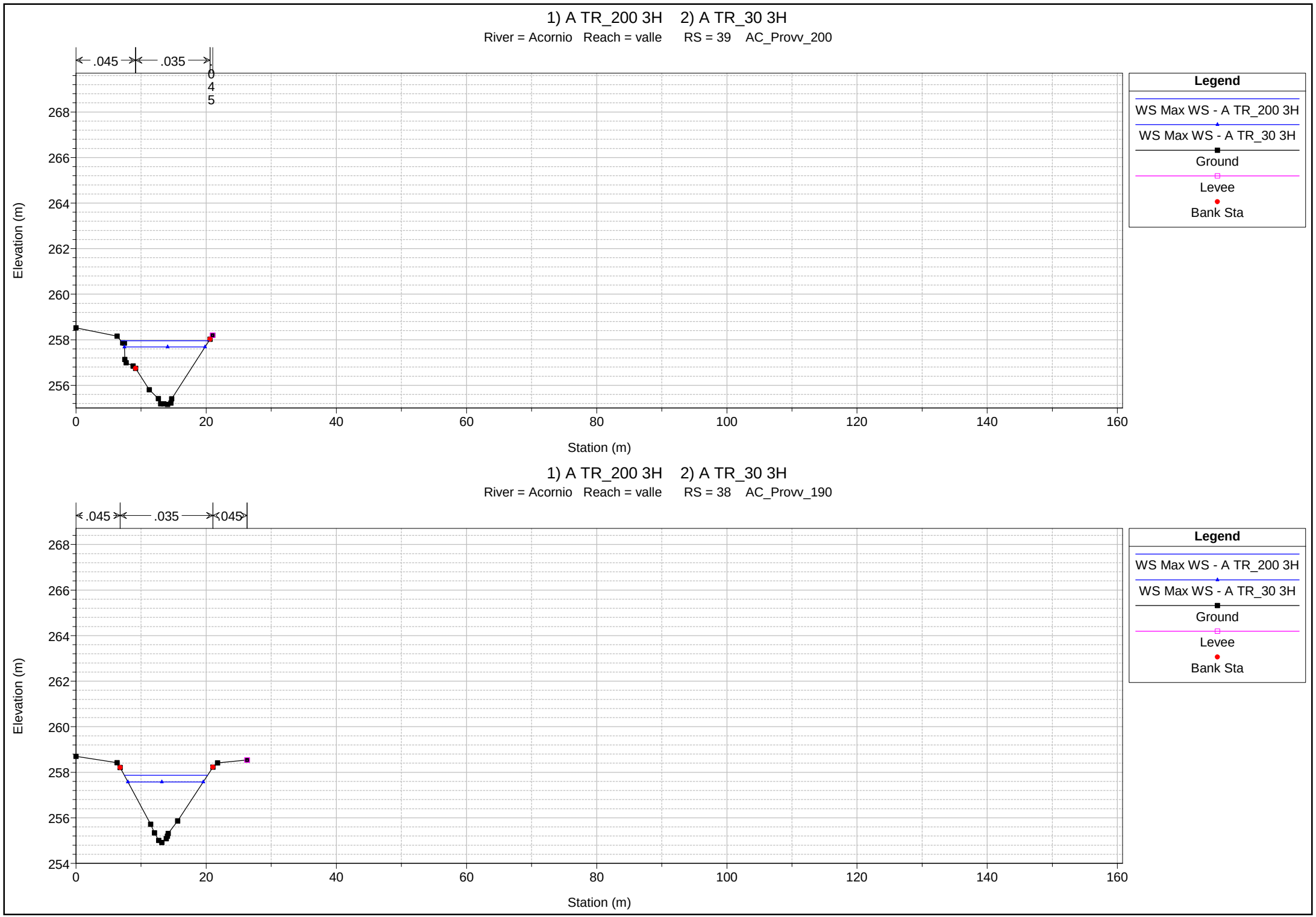
River = Acornio Reach = valle RS = 41.5 BR



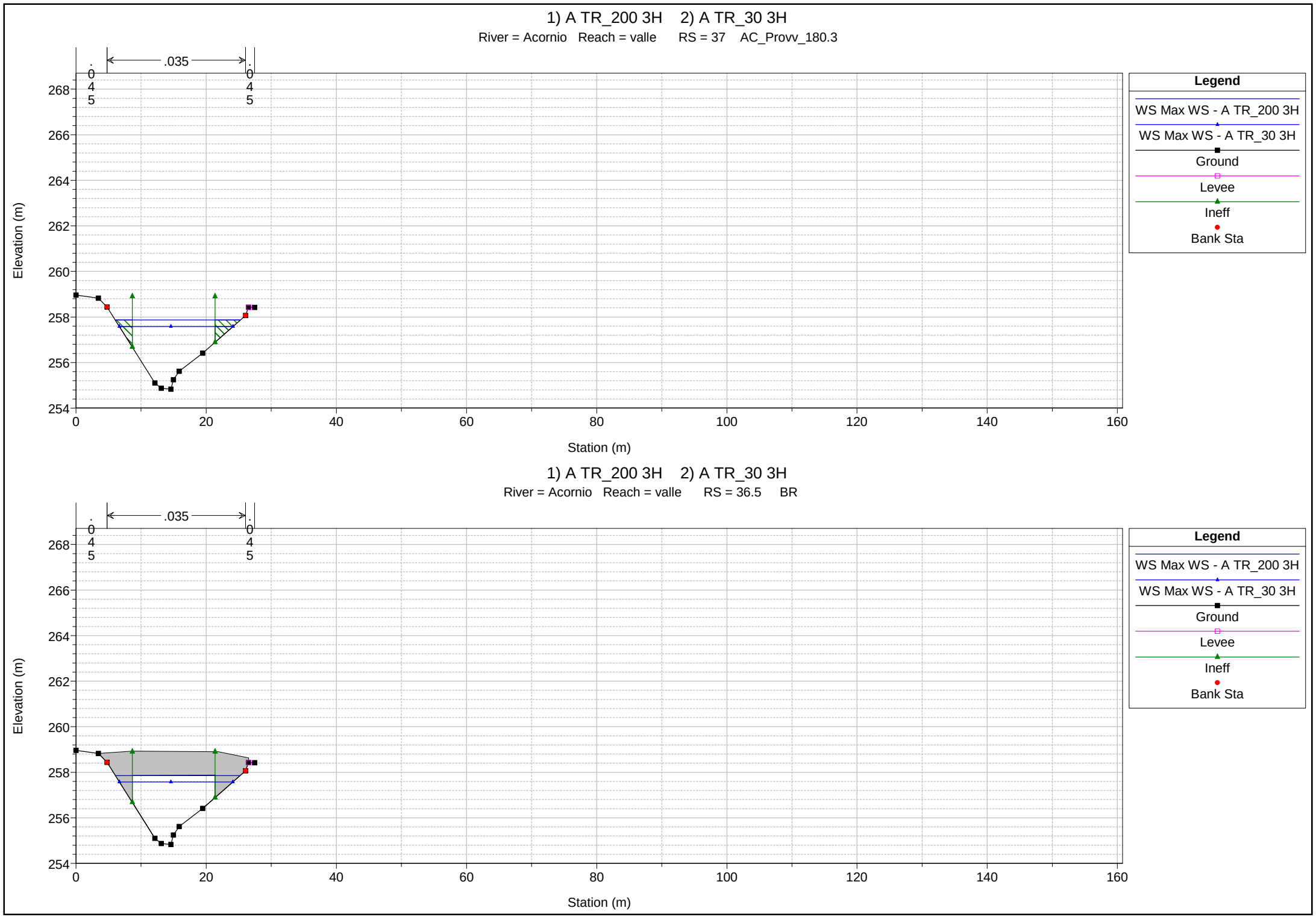
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



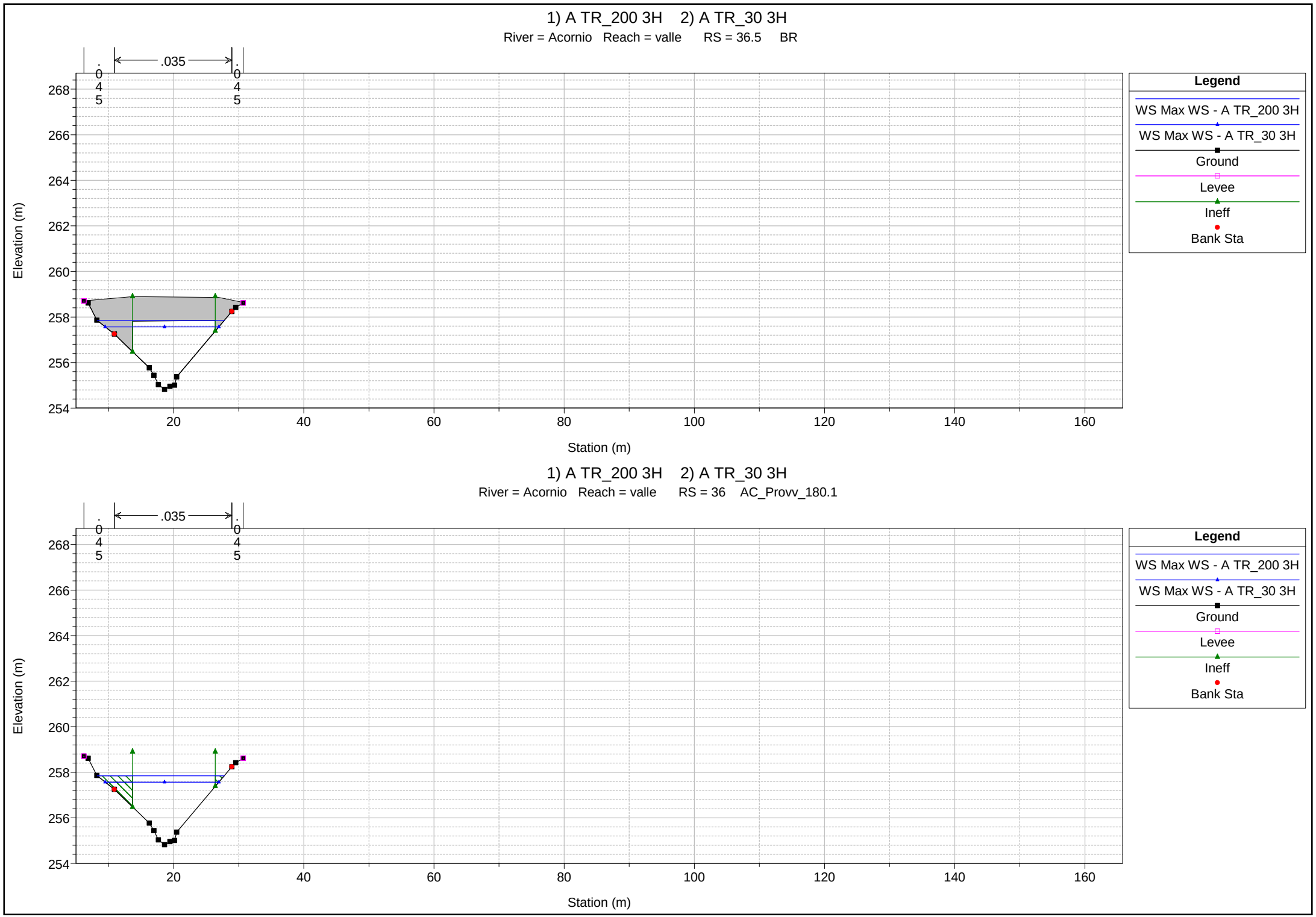
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



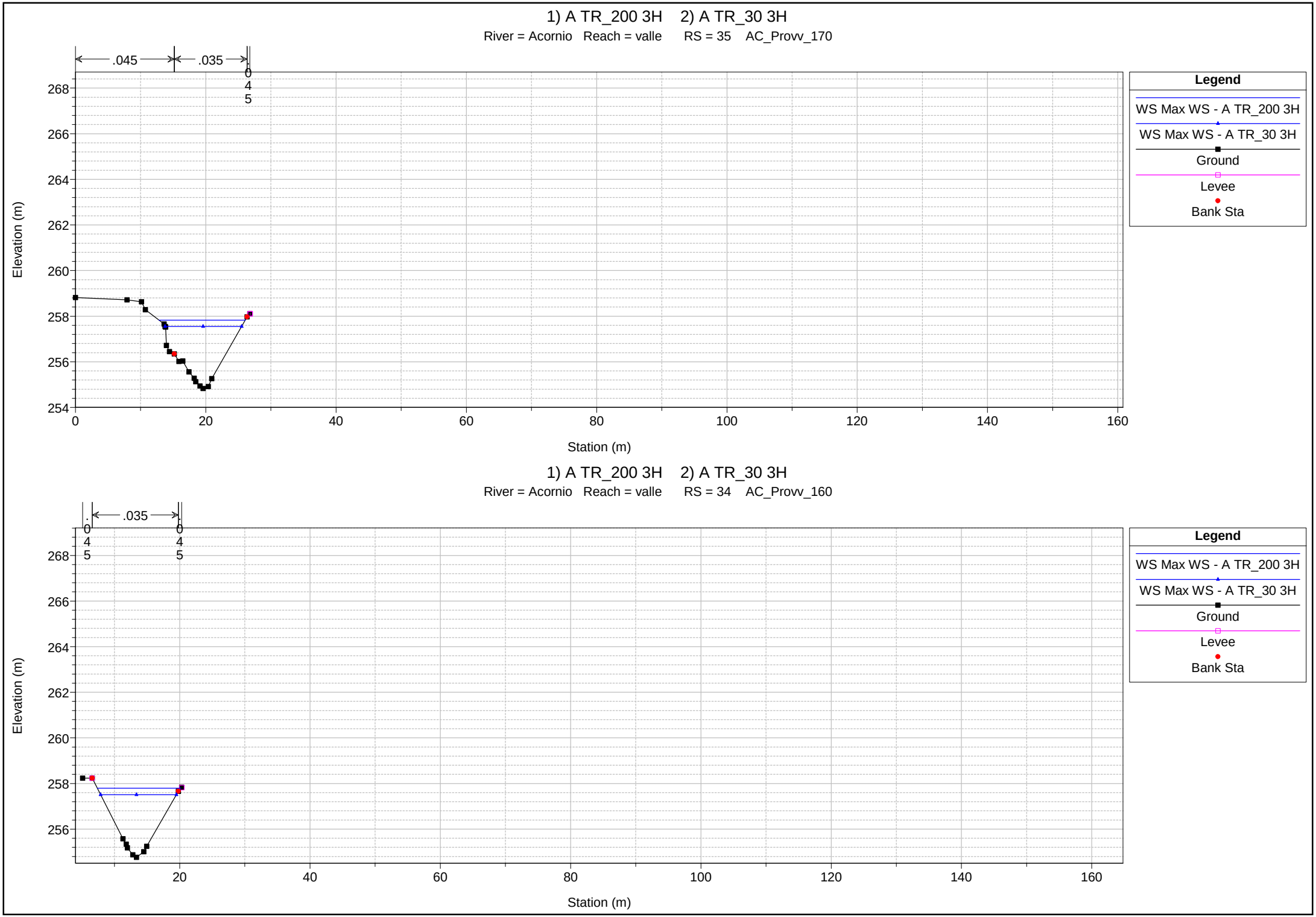
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



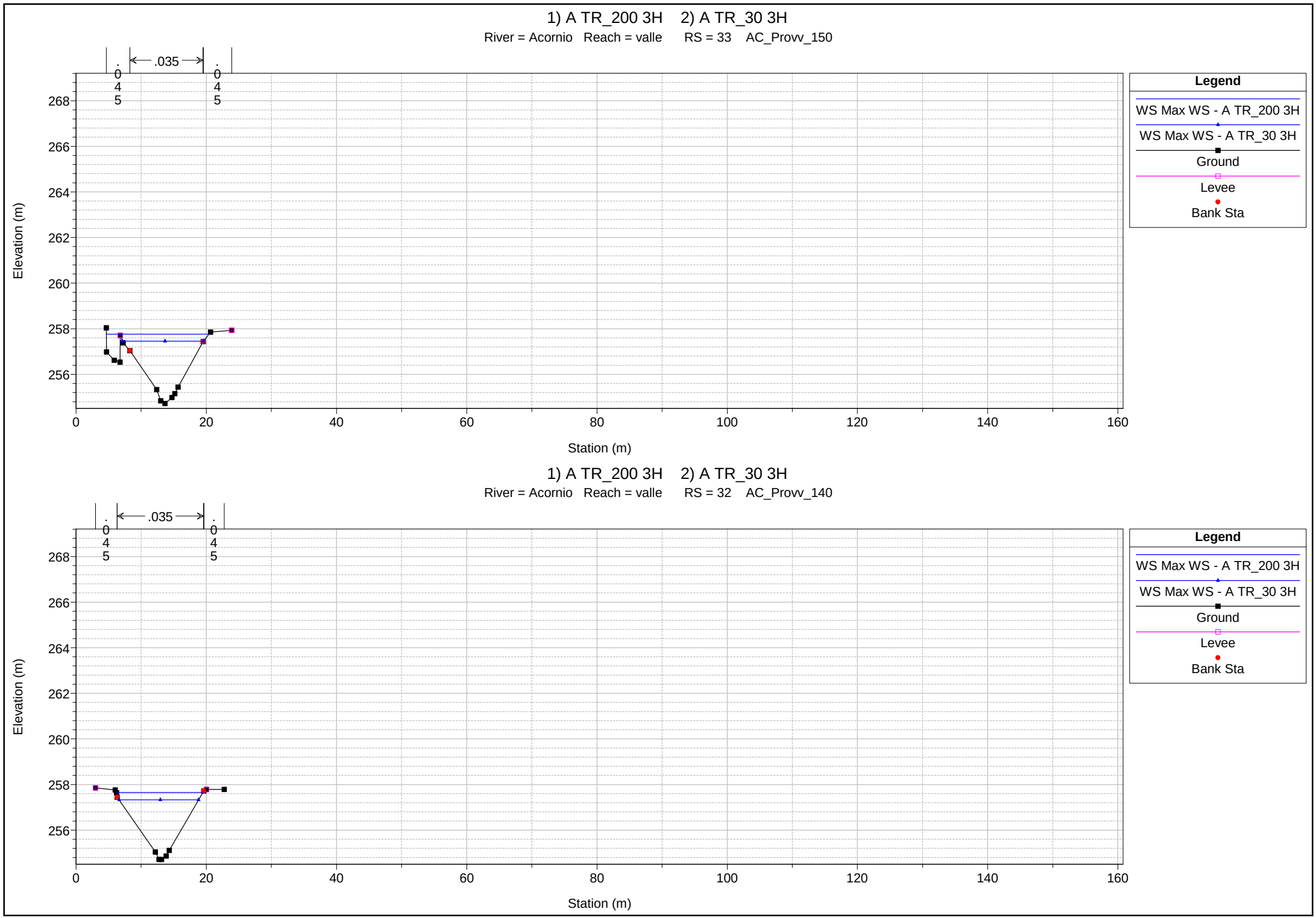
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m



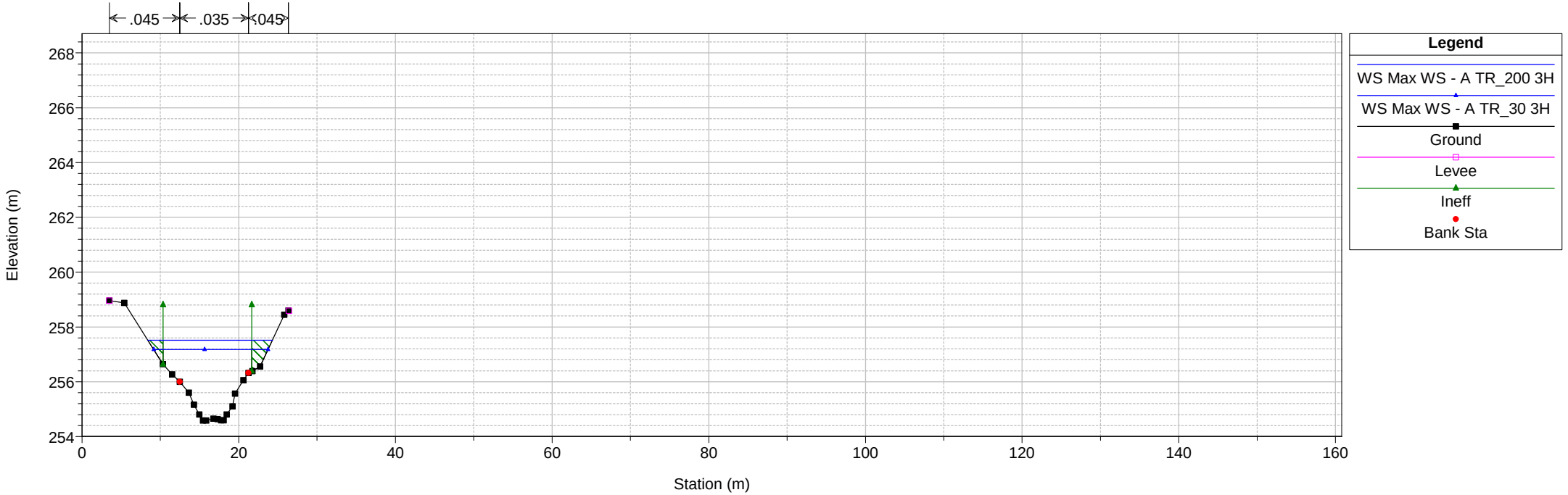
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

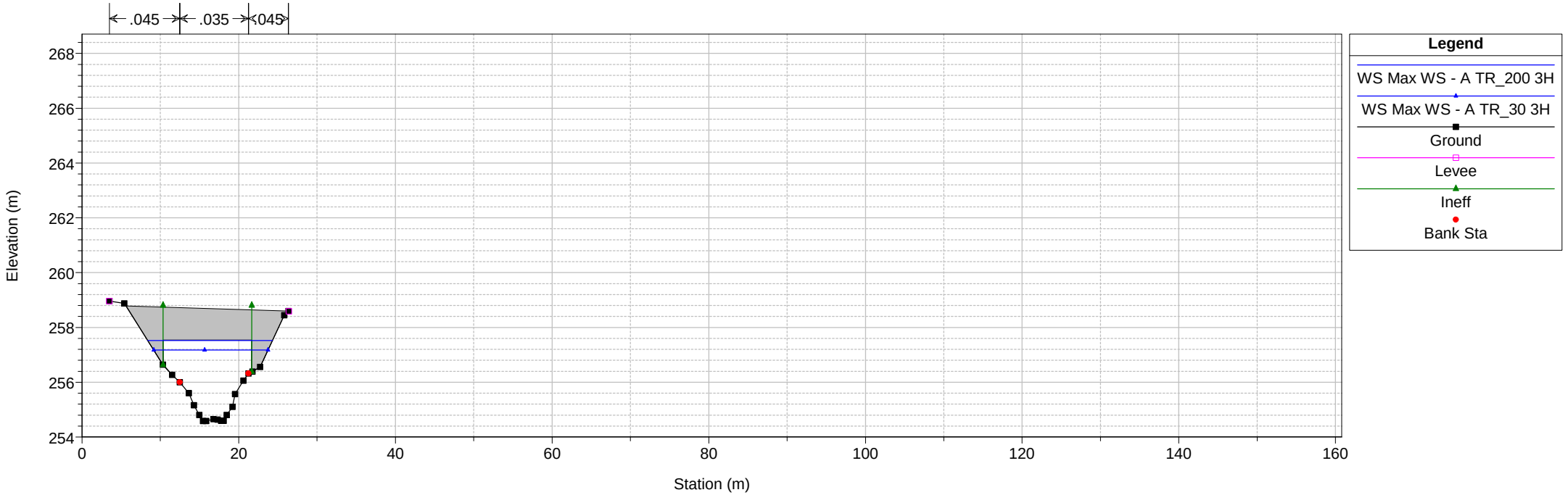
1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle RS = 31 AC_Provv_130.3



1) A TR_200 3H 2) A TR_30 3H

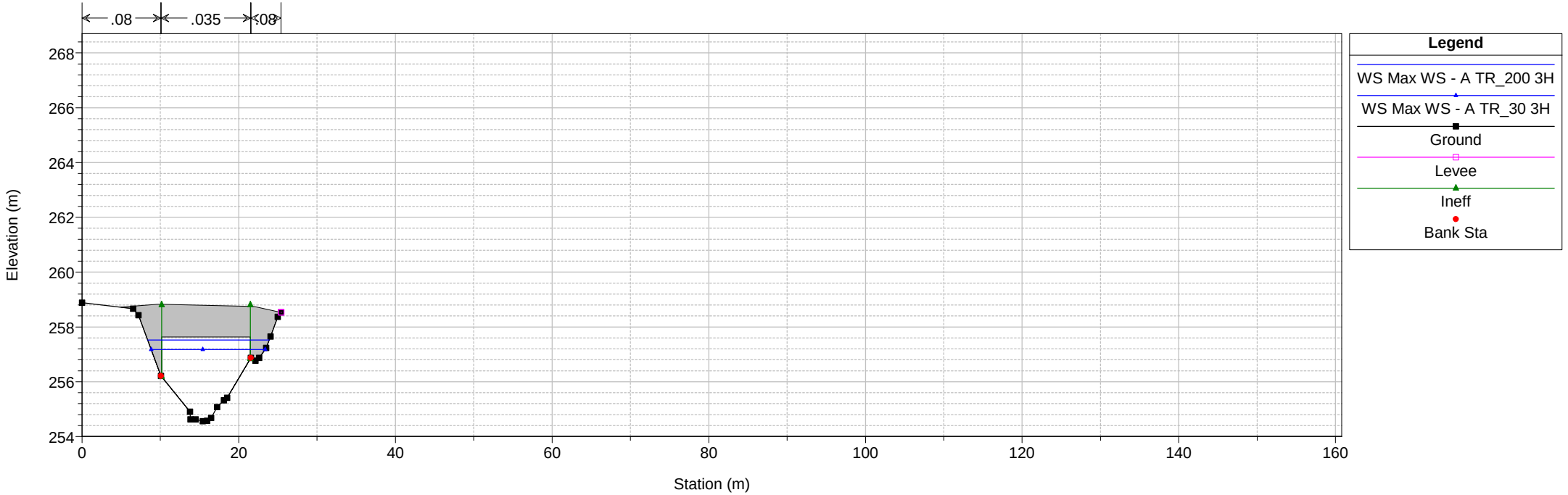
River = Acornio Reach = valle RS = 30.5 BR



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

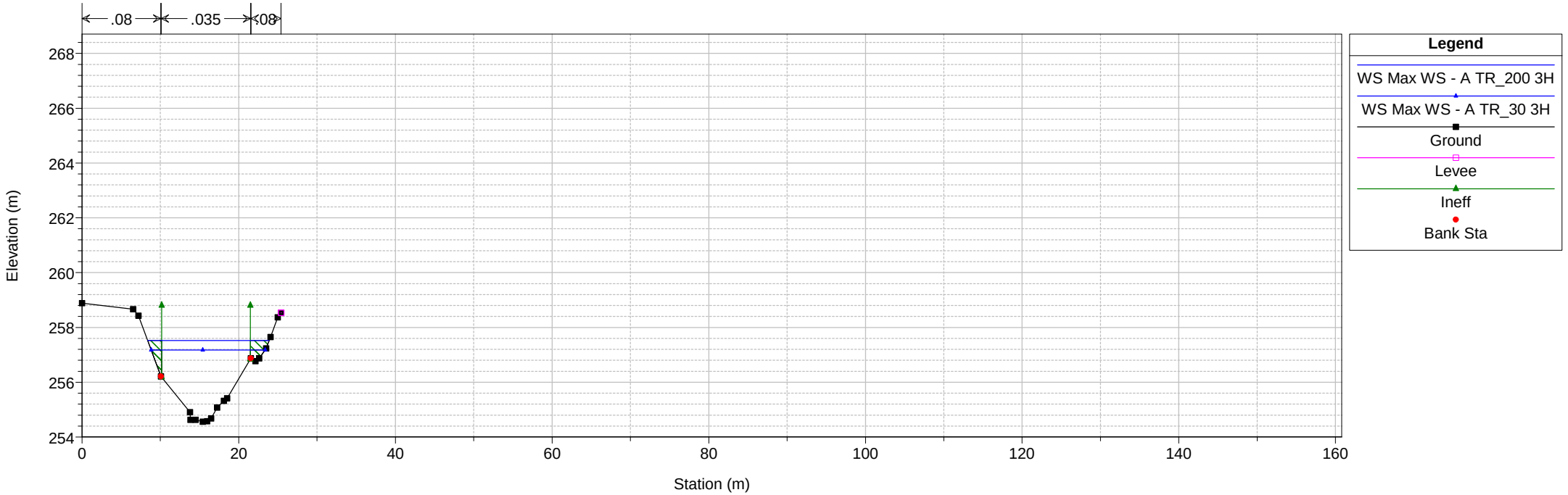
1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle RS = 30.5 BR

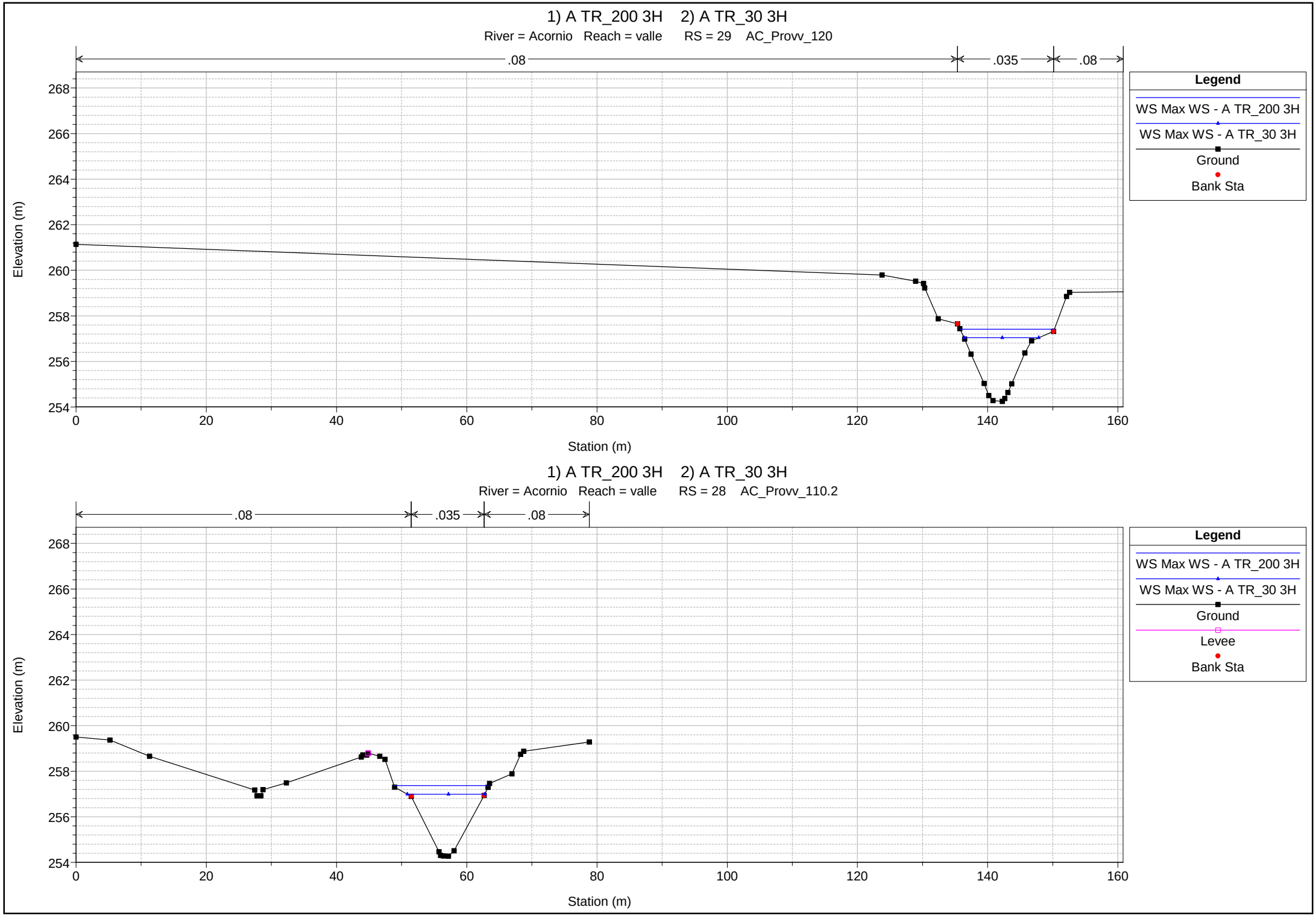


1) A TR_200 3H 2) A TR_30 3H

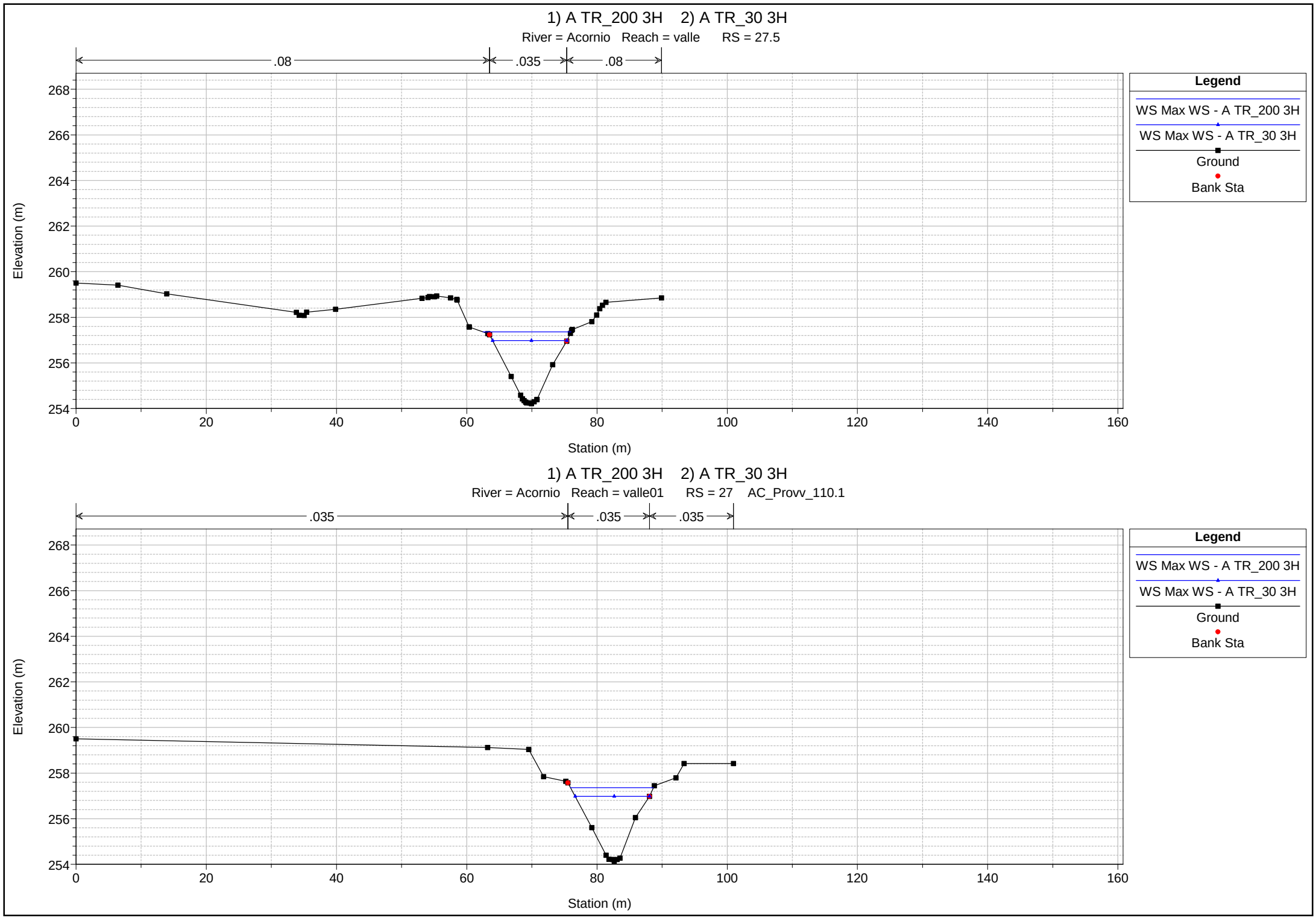
River = Acornio Reach = valle RS = 30 AC_Provv_130.1



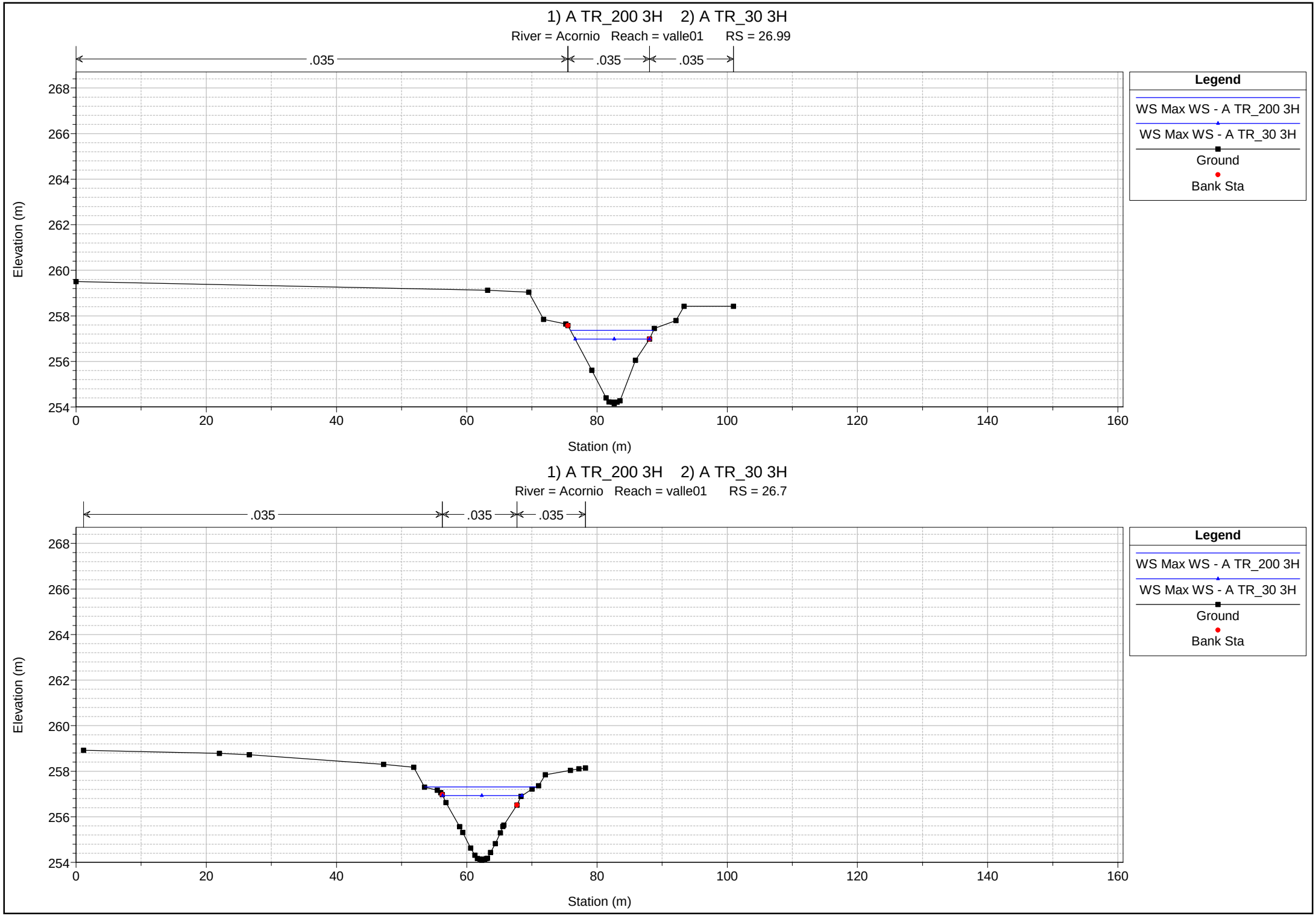
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m



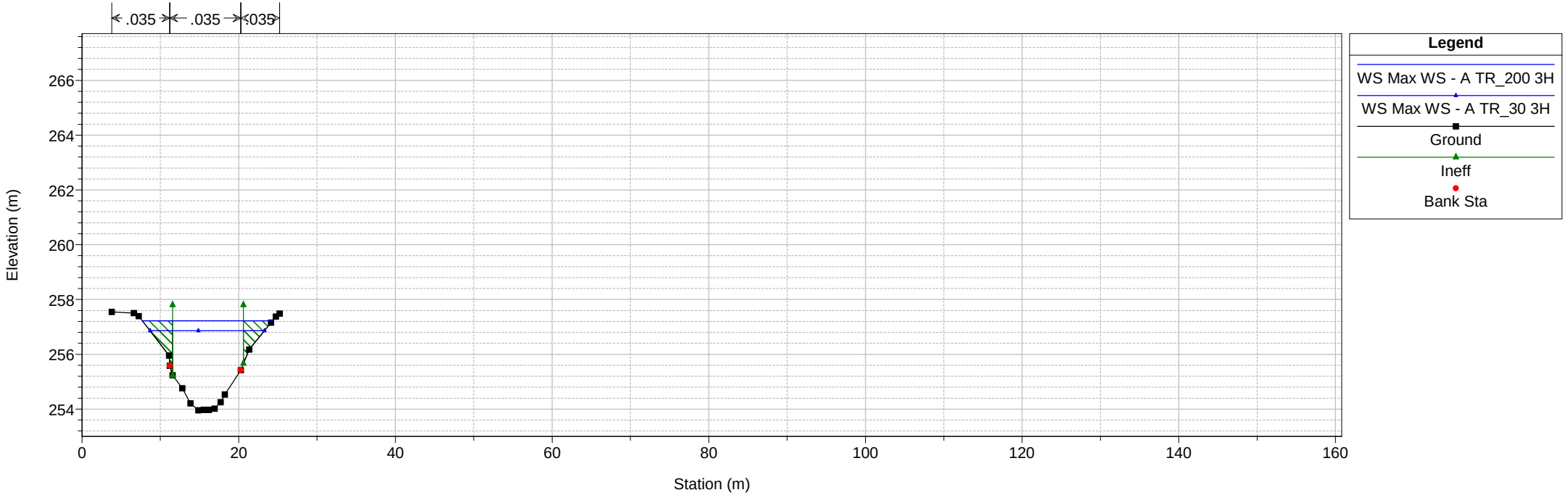
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

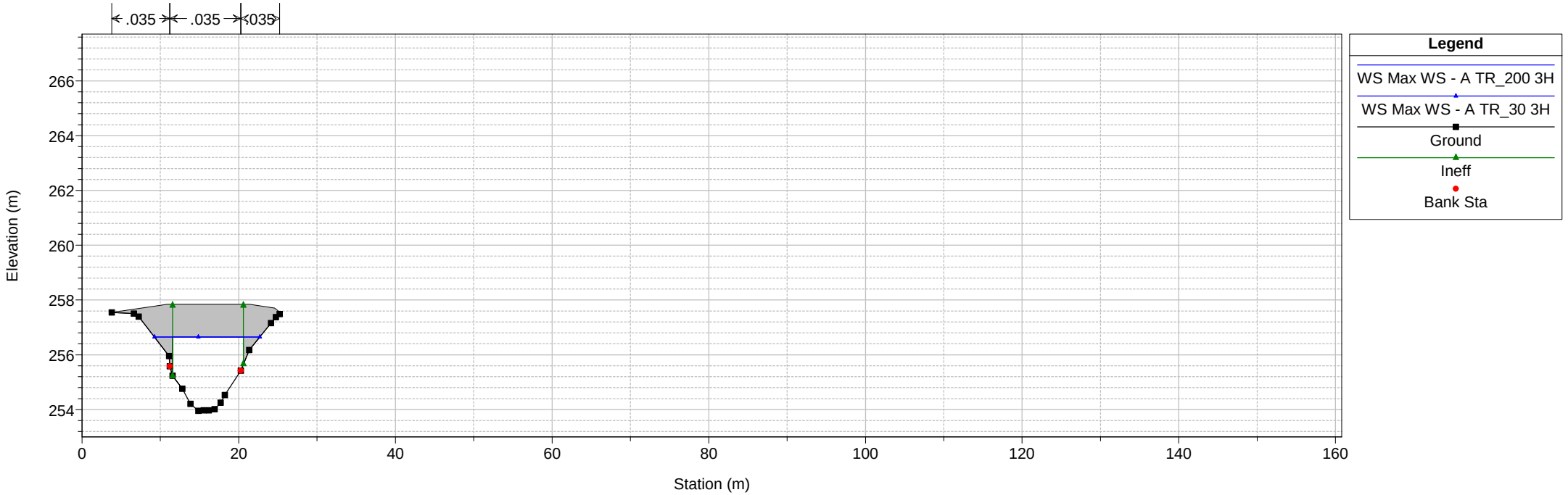
1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle01 RS = 26 AC_Provv_100.3

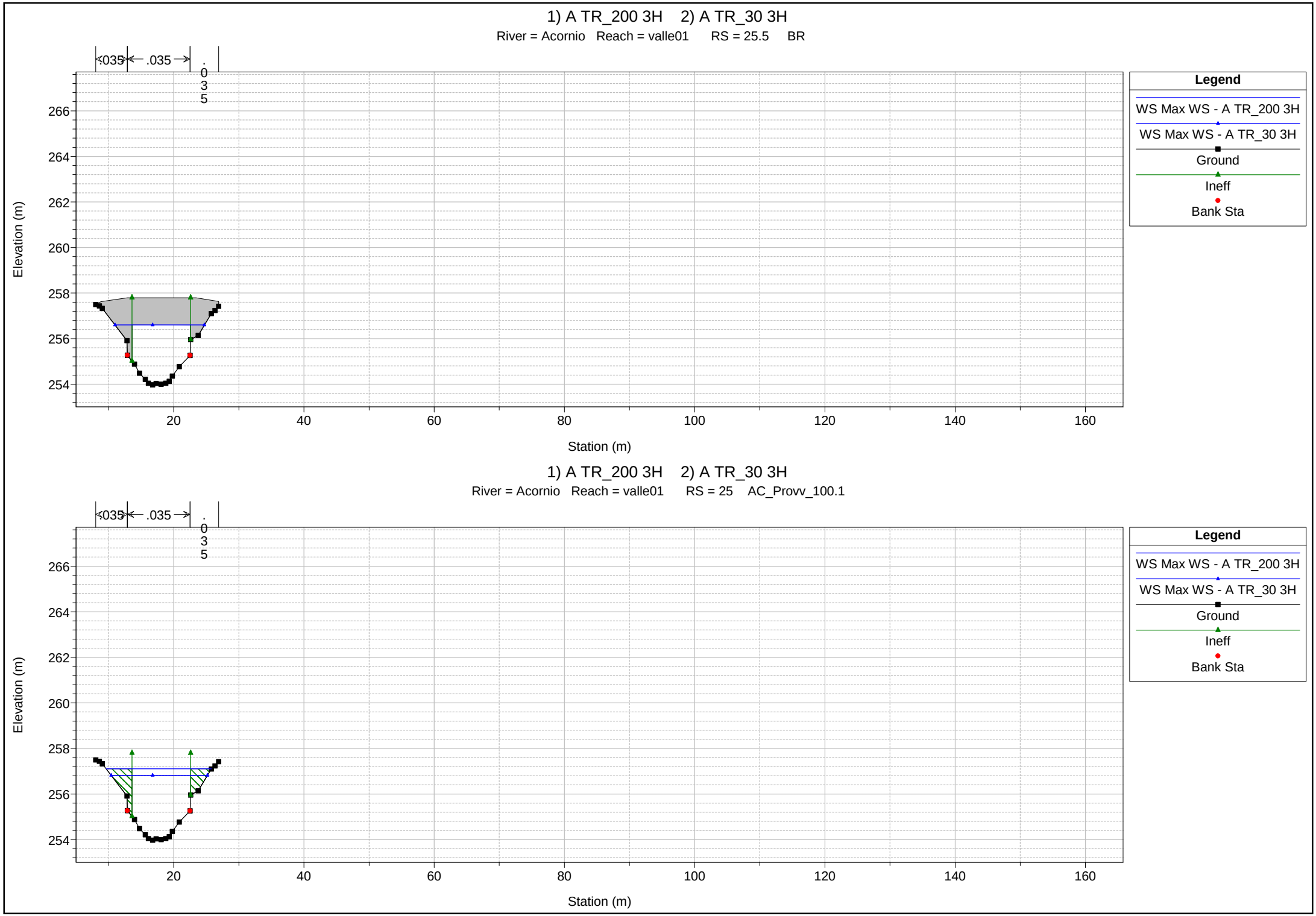


1) A TR_200 3H 2) A TR_30 3H

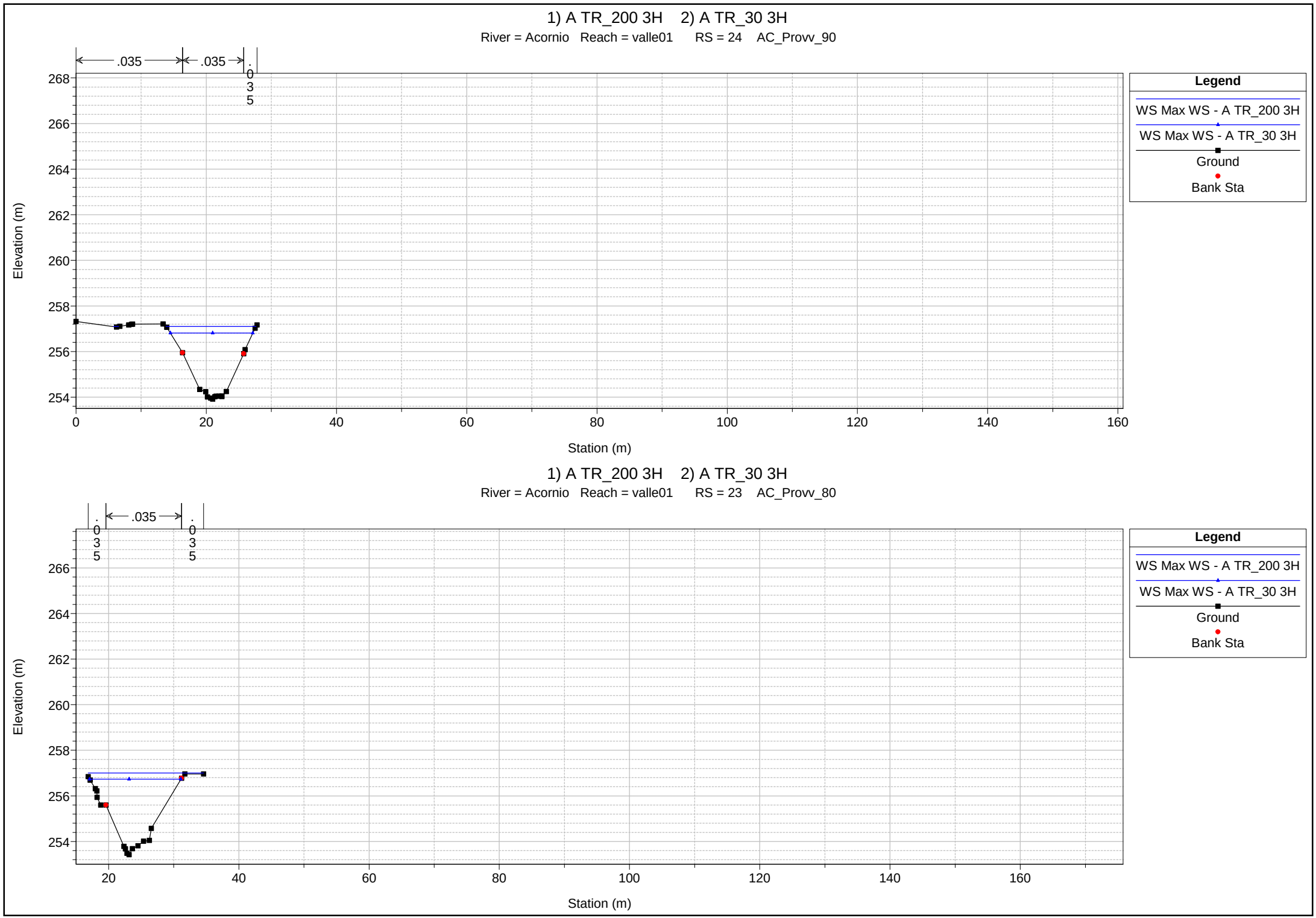
River = Acornio Reach = valle01 RS = 25.5 BR



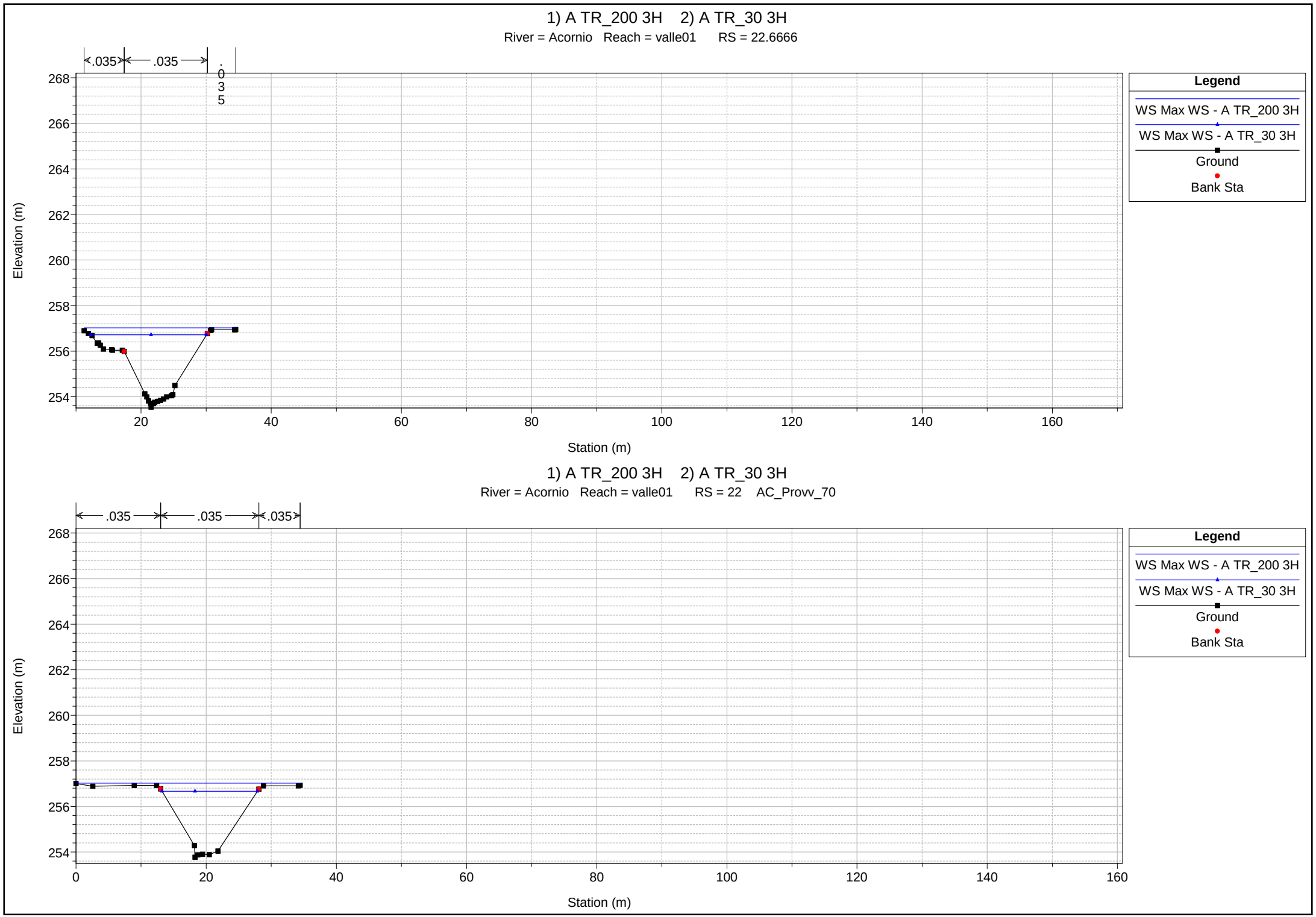
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m



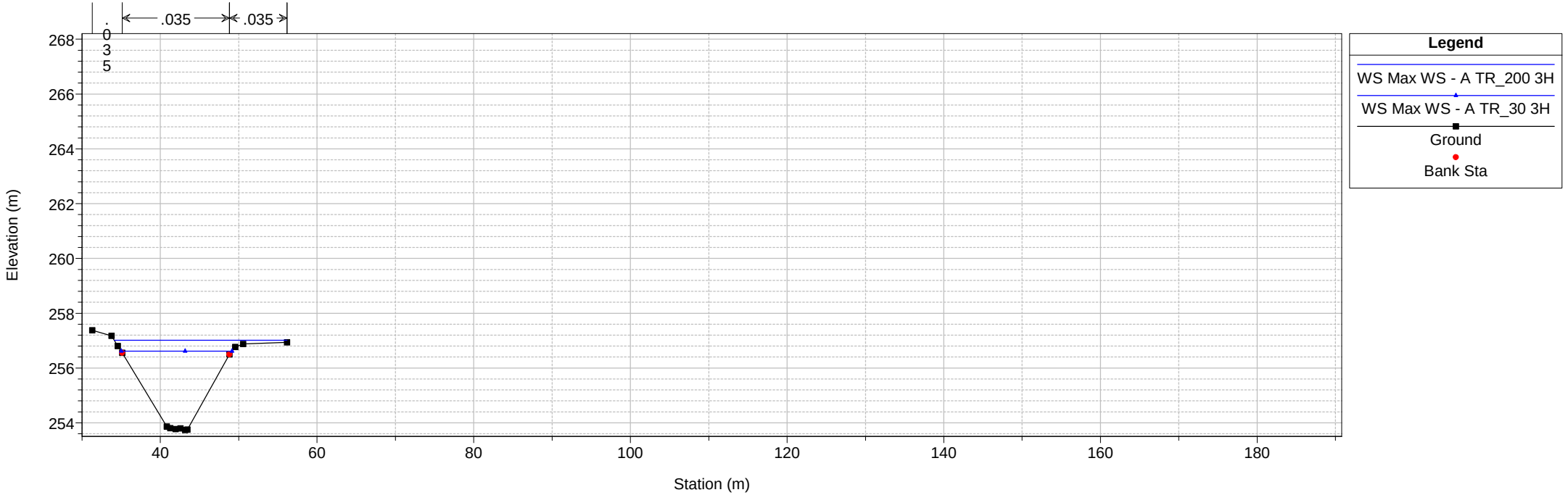
1 cm Horiz. = 7 m 1 cm Vert. = 2 m



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

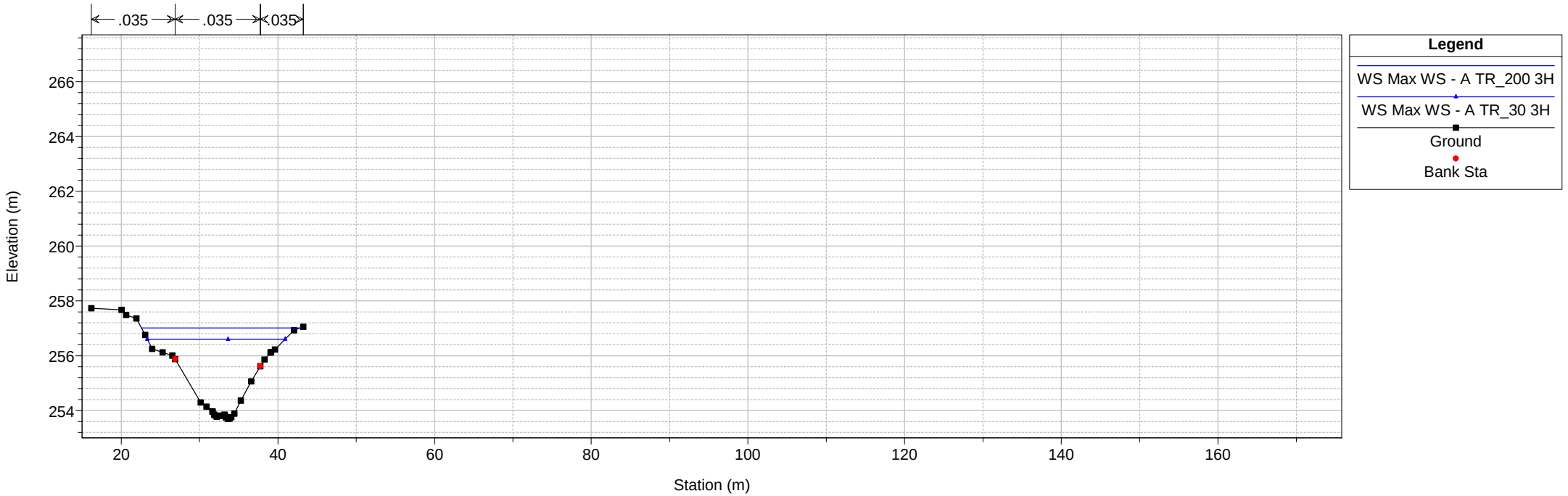
1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle01 RS = 21 DC_Provv_60.2



1) A TR_200 3H 2) A TR_30 3H

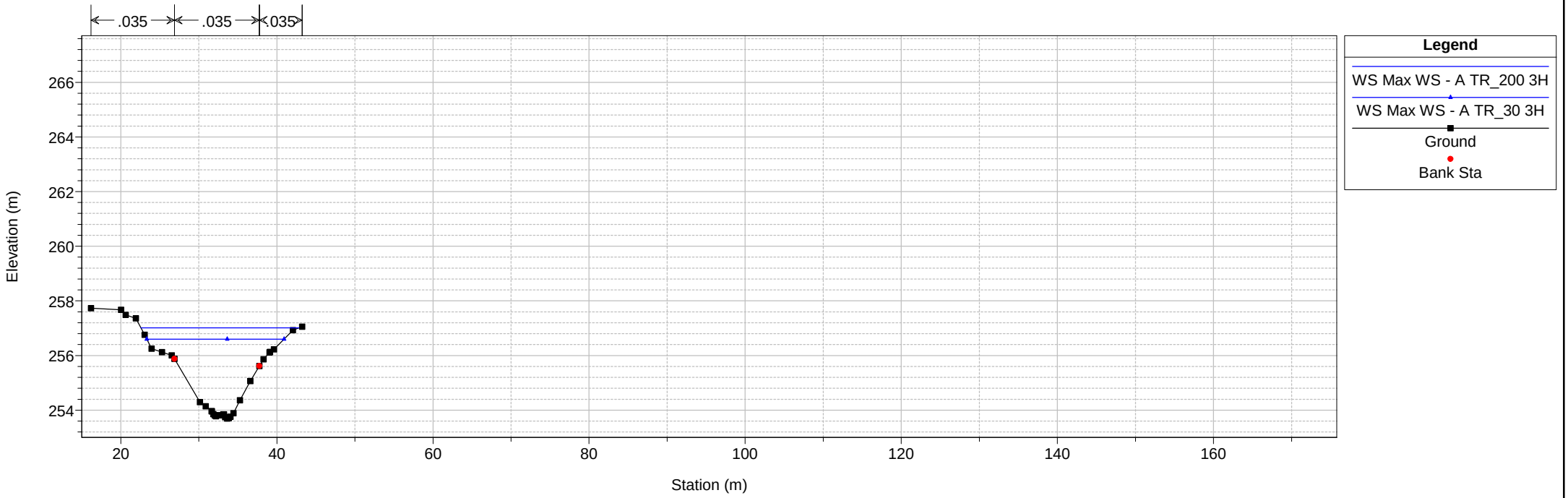
River = Acornio Reach = valle01 RS = 20.4444



1 cm Horiz. = 7 m 1 cm Vert. = 2 m

1) A TR_200 3H 2) A TR_30 3H

River = Acornio Reach = valle01 RS = 20.3333



1 cm Horiz. = 7 m 1 cm Vert. = 2 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)	
monte	71	Max WS	A TR_200 1H	22.00	273.99	275.39	275.32	275.75	0.010218	2.68	8.32	9.58	0.88
monte	71	Max WS	A TR_200 2H	27.40	273.99	275.54	275.46	275.96	0.009449	2.86	9.87	10.19	0.87
monte	71	Max WS	A TR_200 3H	27.20	273.99	275.54	275.45	275.95	0.009465	2.85	9.82	10.17	0.87
monte	71	Max WS	A TR_200 4H	25.50	273.99	275.49	275.41	275.89	0.009627	2.79	9.35	9.99	0.87
monte	71	Max WS	A TR_200 6H	21.80	273.99	275.39	275.31	275.75	0.009882	2.65	8.36	9.60	0.87
monte	71	Max WS	A TR_200 8H	18.80	273.99	275.31	275.23	275.63	0.009992	2.50	7.58	9.28	0.86
monte	71	Max WS	A TR_200 12H	15.00	273.99	275.19	275.11	275.46	0.010351	2.33	6.46	8.83	0.86
monte	71	Max WS	A TR_30 1H	10.50	273.99	275.00	274.94	275.24	0.011841	2.15	4.87	8.06	0.88
monte	71	Max WS	A TR_30 2H	13.30	273.99	275.12	275.05	275.38	0.010665	2.26	5.91	8.60	0.86
monte	71	Max WS	A TR_30 3H	13.40	273.99	275.13	275.05	275.39	0.010637	2.26	5.94	8.62	0.86
monte	71	Max WS	A TR_30 4H	12.80	273.99	275.10	275.03	275.36	0.010728	2.23	5.75	8.54	0.86
monte	71	Max WS	A TR_30 6H	11.00	273.99	275.03	274.96	275.26	0.011287	2.14	5.13	8.27	0.87
monte	71	Max WS	A TR_30 8H	9.60	273.99	274.96	274.89	275.19	0.011408	2.09	4.60	7.75	0.87
monte	71	Max WS	A TR_30 12H	7.70	273.99	274.86	274.79	275.07	0.011203	2.00	3.86	6.85	0.85
monte	70.1	Max WS	A TR_200 1H	21.64	272.99	274.51	274.49	274.98	0.013292	3.04	7.11	7.15	0.97
monte	70.1	Max WS	A TR_200 2H	27.23	272.99	274.68	274.68	275.22	0.013482	3.25	8.39	7.71	0.99
monte	70.1	Max WS	A TR_200 3H	26.98	272.99	274.68	274.67	275.21	0.013469	3.24	8.33	7.69	0.99
monte	70.1	Max WS	A TR_200 4H	25.47	272.99	274.62	274.62	275.15	0.013933	3.23	7.88	7.49	1.00
monte	70.1	Max WS	A TR_200 6H	21.52	272.99	274.51	274.49	274.98	0.013212	3.03	7.10	7.14	0.97
monte	70.1	Max WS	A TR_200 8H	18.80	272.99	274.47	274.39	274.86	0.011247	2.76	6.82	7.01	0.89
monte	70.1	Max WS	A TR_200 12H	15.00	272.99	274.35	274.23	274.67	0.010149	2.50	5.99	6.62	0.84
monte	70.1	Max WS	A TR_30 1H	10.48	272.99	274.12	274.02	274.39	0.010427	2.30	4.56	5.87	0.83
monte	70.1	Max WS	A TR_30 2H	13.29	272.99	274.27	274.15	274.57	0.010242	2.43	5.46	6.35	0.84
monte	70.1	Max WS	A TR_30 3H	13.40	272.99	274.27	274.16	274.58	0.010214	2.44	5.50	6.37	0.84
monte	70.1	Max WS	A TR_30 4H	12.80	272.99	274.24	274.13	274.54	0.010297	2.41	5.30	6.27	0.84
monte	70.1	Max WS	A TR_30 6H	11.00	272.99	274.15	274.04	274.42	0.010399	2.33	4.73	5.96	0.83
monte	70.1	Max WS	A TR_30 8H	9.60	272.99	274.07	273.97	274.33	0.010452	2.25	4.27	5.71	0.83
monte	70.1	Max WS	A TR_30 12H	7.70	272.99	273.95	273.86	274.18	0.010588	2.13	3.62	5.32	0.82
monte	70.05			Inl Struct									
monte	70	Max WS	A TR_200 1H	22.00	270.70	272.25	272.19	272.67	0.011850	2.90	7.60	7.64	0.93
monte	70	Max WS	A TR_200 2H	27.43	270.70	272.42	272.36	272.90	0.011544	3.07	8.93	7.86	0.92
monte	70	Max WS	A TR_200 3H	27.20	270.70	272.41	272.35	272.89	0.011536	3.06	8.88	7.86	0.92
monte	70	Max WS	A TR_200 4H	25.53	270.70	272.36	272.30	272.82	0.011637	3.01	8.49	7.86	0.92
monte	70	Max WS	A TR_200 6H	21.80	270.70	272.24	272.18	272.67	0.011789	2.88	7.56	7.63	0.92
monte	70	Max WS	A TR_200 8H	18.80	270.70	272.14	272.07	272.53	0.011821	2.78	6.77	7.25	0.92
monte	70	Max WS	A TR_200 12H	15.00	270.70	271.99	271.92	272.34	0.011850	2.62	5.72	6.72	0.91
monte	70	Max WS	A TR_30 1H	10.49	270.70	271.77	271.71	272.07	0.012021	2.40	4.38	5.97	0.89
monte	70	Max WS	A TR_30 2H	13.29	270.70	271.91	271.85	272.24	0.011880	2.54	5.23	6.46	0.90
monte	70	Max WS	A TR_30 3H	13.40	270.70	271.92	271.85	272.25	0.011886	2.55	5.26	6.47	0.90
monte	70	Max WS	A TR_30 4H	12.80	270.70	271.89	271.82	272.21	0.011873	2.52	5.09	6.38	0.90
monte	70	Max WS	A TR_30 6H	11.00	270.70	271.80	271.74	272.10	0.011906	2.42	4.55	6.07	0.89
monte	70	Max WS	A TR_30 8H	9.60	270.70	271.73	271.67	272.01	0.011943	2.34	4.11	5.81	0.89
monte	70	Max WS	A TR_30 12H	7.70	270.70	271.62	271.56	271.87	0.011974	2.20	3.50	5.43	0.88
monte	69	Max WS	A TR_200 1H	21.99	268.17	270.55	270.08	270.78	0.004961	2.12	10.37	8.13	0.60
monte	69	Max WS	A TR_200 2H	27.37	268.17	270.77	270.27	271.03	0.004924	2.24	12.24	8.80	0.61
monte	69	Max WS	A TR_200 3H	27.19	268.17	270.77	270.26	271.02	0.004922	2.23	12.18	8.78	0.60
monte	69	Max WS	A TR_200 4H	25.50	268.17	270.70	270.21	270.95	0.004898	2.19	11.64	8.59	0.60
monte	69	Max WS	A TR_200 6H	21.79	268.17	270.55	270.07	270.78	0.004857	2.10	10.38	8.13	0.59
monte	69	Max WS	A TR_200 8H	18.80	268.17	270.42	269.95	270.63	0.004824	2.02	9.32	7.73	0.59
monte	69	Max WS	A TR_200 12H	15.00	268.17	270.23	269.78	270.41	0.004777	1.90	7.89	7.10	0.58
monte	69	Max WS	A TR_30 1H	10.48	268.17	269.95	269.53	270.10	0.004745	1.74	6.03	6.18	0.56
monte	69	Max WS	A TR_30 2H	13.29	268.17	270.13	269.70	270.30	0.004752	1.84	7.22	6.78	0.57
monte	69	Max WS	A TR_30 3H	13.40	268.17	270.14	269.70	270.31	0.004750	1.84	7.26	6.80	0.57
monte	69	Max WS	A TR_30 4H	12.80	268.17	270.10	269.67	270.27	0.004741	1.82	7.02	6.68	0.57
monte	69	Max WS	A TR_30 6H	11.00	268.17	269.99	269.56	270.14	0.004694	1.75	6.29	6.31	0.56
monte	69	Max WS	A TR_30 8H	9.60	268.17	269.89	269.48	270.03	0.004647	1.69	5.69	5.99	0.55
monte	69	Max WS	A TR_30 12H	7.70	268.17	269.74	269.35	269.87	0.004562	1.59	4.85	5.51	0.54
monte	68.1	Max WS	A TR_200 1H	21.98	267.39	269.13	268.99	269.52	0.009888	2.77	7.93	7.17	0.84
monte	68.1	Max WS	A TR_200 2H	27.36	267.39	269.33	269.17	269.76	0.009635	2.90	9.42	7.77	0.84
monte	68.1	Max WS	A TR_200 3H	27.18	267.39	269.32	269.17	269.75	0.009642	2.90	9.37	7.75	0.84
monte	68.1	Max WS	A TR_200 4H	25.50	267.39	269.26	269.11	269.68	0.009708	2.86	8.92	7.57	0.84
monte	68.1	Max WS	A TR_200 6H	21.78	267.39	269.12	268.98	269.51	0.009894	2.77	7.87	7.15	0.84
monte	68.1	Max WS	A TR_200 8H	18.80	267.39	269.00	268.87	269.37	0.010031	2.68	7.02	6.78	0.84
monte	68.1	Max WS	A TR_200 12H	15.00	267.39	268.83	268.71	269.16	0.010276	2.55	5.89	6.26	0.84
monte	68.1	Max WS	A TR_30 1H	10.46	267.39	268.59	268.48	268.87	0.010546	2.34	4.47	5.54	0.83
monte	68.1	Max WS	A TR_30 2H	13.27	267.39	268.74	268.62	269.05	0.010410	2.48	5.35	6.00	0.84
monte	68.1	Max WS	A TR_30 3H	13.40	267.39	268.75	268.63	269.06	0.010384	2.48	5.39	6.02	0.84
monte	68.1	Max WS	A TR_30 4H	12.80	267.39	268.72	268.60	269.02	0.010398	2.46	5.21	5.93	0.84
monte	68.1	Max WS	A TR_30 6H	11.00	267.39	268.62	268.51	268.90	0.010520	2.37	4.64	5.64	0.83
monte	68.1	Max WS	A TR_30 8H	9.60	267.39	268.53	268.43	268.80	0.010643	2.30	4.18	5.39	0.83
monte	68.1	Max WS	A TR_30 12H	7.70	267.39	268.41	268.31	268.65	0.010727	2.17	3.55	5.02	0.82
monte	68.05			Inl Struct									
monte	68	Max WS	A TR_200 1H	21.98	266.01	268.55	268.21	268.80	0.006805	2.21	9.94	8.81	0.66
monte	68	Max WS	A TR_200 2H	27.36	266.01	268.75	268.39	269.03	0.006754	2.34	11.71	9.59	0.67
monte	68	Max WS	A TR_200 3H	27.18	266.01	268.74	268.38	269.02	0.006754	2.33	11.66	9.57	0.67
monte	68	Max WS	A TR_200 4H	25.50	266.01	268.68	268.33	268.95	0.006757	2.29	11.12	9.35	0.67
monte	68	Max WS	A TR_200 6H	21.78	266.01	268.55	268.20	268.80	0.006744	2.20	9.90	8.79	0.66
monte	68	Max WS	A TR_200 8H	18.80	266.01	268.43	268.09	268.66	0.006722	2.11	8.89	8.31	0.65
monte	68	Max WS	A TR_200 12H	15.00	266.01	268.26	267.92	268.46	0.006682	1.99	7.54	7.61	0.64
monte	68	Max WS	A TR_30 1H	10.47	266.01	268.02	267.70	268.18	0.006609	1.80	5.80	6.60	0.61
monte	68	Max WS	A TR_30 2H	13.28	266.01	268.18	267.85	268.37	0.006644	1.92	6.91	7.26	0.63
monte	68	Max WS	A TR_30 3H	13.40	266.01	268.18	267.86	268.37	0.006645	1.93	6.95	7.28	0.63
monte	68	Max WS	A TR_30 4H	12.80	266.01	268.15	267.82	268.34	0.006631	1.90	6.73	7.15	0.63
monte	68	Max WS	A TR_30 6H	11.00	266.01	268.05	267.73	268.22	0.006570	1.82	6.03	6.74	0.62

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)	
monte	68	Max WS	A TR_30 8H	9.60	266.01	267.97	267.64	268.12	0.006512	1.75	5.47	6.39	0.61
monte	68	Max WS	A TR_30 12H	7.70	266.01	267.84	267.52	267.98	0.006395	1.65	4.68	5.86	0.59
monte	67	Max WS	A TR_200 1H	21.95	265.47	267.48	267.18	267.76	0.006838	2.34	9.38	8.20	0.70
monte	67	Max WS	A TR_200 2H	27.35	265.47	267.64	267.36	267.97	0.007385	2.55	10.72	8.72	0.73
monte	67	Max WS	A TR_200 3H	27.17	265.47	267.63	267.35	267.96	0.007377	2.55	10.67	8.70	0.73
monte	67	Max WS	A TR_200 4H	25.50	265.47	267.58	267.30	267.90	0.007320	2.50	10.21	8.53	0.73
monte	67	Max WS	A TR_200 6H	21.78	265.47	267.43	267.18	267.73	0.007657	2.43	8.95	8.03	0.74
monte	67	Max WS	A TR_200 8H	18.80	265.47	267.27	267.07	267.57	0.008604	2.44	7.70	7.51	0.77
monte	67	Max WS	A TR_200 12H	15.00	265.47	267.05	266.92	267.35	0.010150	2.44	6.15	6.81	0.82
monte	67	Max WS	A TR_30 1H	10.46	265.47	266.82	266.71	267.08	0.010723	2.25	4.64	6.05	0.82
monte	67	Max WS	A TR_30 2H	13.27	265.47	266.96	266.84	267.25	0.010499	2.39	5.56	6.52	0.83
monte	67	Max WS	A TR_30 3H	13.40	265.47	266.97	266.85	267.26	0.010462	2.39	5.60	6.55	0.83
monte	67	Max WS	A TR_30 4H	12.80	265.47	266.94	266.82	267.22	0.010543	2.37	5.40	6.45	0.83
monte	67	Max WS	A TR_30 6H	11.00	265.47	266.84	266.73	267.11	0.010732	2.29	4.81	6.14	0.82
monte	67	Max WS	A TR_30 8H	9.60	265.47	266.77	266.66	267.02	0.010859	2.21	4.34	5.89	0.82
monte	67	Max WS	A TR_30 12H	7.70	265.47	266.65	266.55	266.87	0.011015	2.09	3.69	5.52	0.81
monte	66	Max WS	A TR_200 1H	21.90	263.53	267.20	265.40	267.25	0.000691	1.06	20.76	9.75	0.23
monte	66	Max WS	A TR_200 2H	27.35	263.53	267.39	265.61	267.46	0.000849	1.21	22.68	10.15	0.26
monte	66	Max WS	A TR_200 3H	27.17	263.53	267.38	265.60	267.46	0.000842	1.20	22.64	10.14	0.26
monte	66	Max WS	A TR_200 4H	25.50	263.53	267.34	265.54	267.41	0.000780	1.15	22.22	10.05	0.25
monte	66	Max WS	A TR_200 6H	21.76	263.53	267.19	265.40	267.24	0.000688	1.05	20.70	9.74	0.23
monte	66	Max WS	A TR_200 8H	18.79	263.53	266.97	265.27	267.02	0.000683	1.01	18.60	9.29	0.23
monte	66	Max WS	A TR_200 12H	15.00	263.53	266.52	265.09	266.57	0.000828	1.02	14.65	8.39	0.25
monte	66	Max WS	A TR_30 1H	10.41	263.53	265.97	264.83	266.02	0.001038	1.01	10.30	7.26	0.27
monte	66	Max WS	A TR_30 2H	13.19	263.53	266.31	264.99	266.36	0.000906	1.02	12.88	7.95	0.26
monte	66	Max WS	A TR_30 3H	13.36	263.53	266.33	265.00	266.38	0.000898	1.02	13.05	7.99	0.26
monte	66	Max WS	A TR_30 4H	12.77	263.53	266.25	264.97	266.31	0.000926	1.02	12.48	7.85	0.26
monte	66	Max WS	A TR_30 6H	10.99	263.53	266.04	264.87	266.09	0.001006	1.01	10.84	7.41	0.27
monte	66	Max WS	A TR_30 8H	9.60	263.53	265.87	264.78	265.92	0.001068	1.00	9.59	7.02	0.27
monte	66	Max WS	A TR_30 12H	7.70	263.53	265.62	264.65	265.67	0.001138	0.97	7.93	6.40	0.28
monte	65	Max WS	A TR_200 1H	21.90	263.51	267.12		267.17	0.000587	0.97	22.80	16.27	0.22
monte	65	Max WS	A TR_200 2H	27.34	263.51	267.31		267.37	0.000673	1.10	27.10	31.49	0.24
monte	65	Max WS	A TR_200 3H	27.16	263.51	267.30		267.36	0.000668	1.10	26.99	31.18	0.24
monte	65	Max WS	A TR_200 4H	25.50	263.51	267.27		267.32	0.000625	1.05	25.95	28.22	0.23
monte	65	Max WS	A TR_200 6H	21.76	263.51	267.12		267.17	0.000586	0.97	22.70	15.75	0.22
monte	65	Max WS	A TR_200 8H	18.79	263.51	266.90		266.94	0.000610	0.94	19.99	11.03	0.22
monte	65	Max WS	A TR_200 12H	15.00	263.51	266.42		266.47	0.000819	0.99	15.11	9.62	0.25
monte	65	Max WS	A TR_30 1H	10.41	263.51	265.83		265.88	0.001226	1.05	9.88	7.84	0.30
monte	65	Max WS	A TR_30 2H	13.18	263.51	266.19		266.25	0.000953	1.02	12.96	8.93	0.27
monte	65	Max WS	A TR_30 3H	13.36	263.51	266.22		266.27	0.000938	1.01	13.17	9.00	0.27
monte	65	Max WS	A TR_30 4H	12.77	263.51	266.14		266.19	0.000989	1.02	12.48	8.77	0.27
monte	65	Max WS	A TR_30 6H	10.99	263.51	265.91		265.96	0.001156	1.04	10.52	8.08	0.29
monte	65	Max WS	A TR_30 8H	9.59	263.51	265.72		265.77	0.001322	1.06	9.04	7.51	0.31
monte	65	Max WS	A TR_30 12H	7.70	263.51	265.44		265.50	0.001617	1.08	7.11	6.70	0.34
monte	64.5			Culvert									
monte	64	Max WS	A TR_200 1H	21.85	263.49	265.68	265.34	265.95	0.006267	2.31	9.47	8.04	0.68
monte	64	Max WS	A TR_200 2H	27.31	263.49	266.00	265.53	266.25	0.004960	2.23	12.23	9.11	0.62
monte	64	Max WS	A TR_200 3H	27.11	263.49	265.99	265.52	266.24	0.004990	2.23	12.13	9.08	0.62
monte	64	Max WS	A TR_200 4H	25.10	263.49	265.84	265.46	266.12	0.005801	2.32	10.82	8.58	0.66
monte	64	Max WS	A TR_200 6H	21.75	263.49	265.66	265.34	265.94	0.006478	2.33	9.32	7.97	0.69
monte	64	Max WS	A TR_200 8H	18.79	263.49	265.50	265.23	265.78	0.007027	2.32	8.10	7.44	0.71
monte	64	Max WS	A TR_200 12H	15.00	263.49	265.30	265.06	265.56	0.007531	2.25	6.67	6.77	0.72
monte	64	Max WS	A TR_30 1H	10.41	263.49	265.05	264.83	265.26	0.007525	2.05	5.07	5.92	0.71
monte	64	Max WS	A TR_30 2H	13.18	263.49	265.20	264.98	265.44	0.007703	2.20	6.00	6.43	0.73
monte	64	Max WS	A TR_30 3H	13.36	263.49	265.21	264.98	265.46	0.007687	2.20	6.07	6.46	0.73
monte	64	Max WS	A TR_30 4H	12.77	263.49	265.18	264.95	265.42	0.007724	2.18	5.85	6.35	0.73
monte	64	Max WS	A TR_30 6H	10.99	263.49	265.07	264.86	265.30	0.007823	2.11	5.21	6.00	0.72
monte	64	Max WS	A TR_30 8H	9.59	263.49	264.98	264.78	265.20	0.007859	2.04	4.70	5.71	0.72
monte	64	Max WS	A TR_30 12H	7.70	263.49	264.85	264.66	265.04	0.007895	1.94	3.97	5.27	0.71
monte	63	Max WS	A TR_200 1H	21.78	263.20	265.45	264.73	265.58	0.002629	1.63	13.34	10.11	0.45
monte	63	Max WS	A TR_200 2H	27.31	263.20	265.91	264.91	266.02	0.001631	1.50	18.33	11.55	0.37
monte	63	Max WS	A TR_200 3H	27.10	263.20	265.90	264.91	266.01	0.001640	1.50	18.19	11.51	0.37
monte	63	Max WS	A TR_200 4H	25.04	263.20	265.72	264.84	265.84	0.001969	1.55	16.16	10.95	0.40
monte	63	Max WS	A TR_200 6H	21.73	263.20	265.49	264.73	265.62	0.002377	1.58	13.78	10.25	0.43
monte	63	Max WS	A TR_200 8H	18.79	263.20	265.29	264.62	265.42	0.002729	1.60	11.77	9.48	0.46
monte	63	Max WS	A TR_200 12H	15.00	263.20	265.03	264.47	265.15	0.003136	1.59	9.42	8.45	0.48
monte	63	Max WS	A TR_30 1H	10.40	263.20	264.68	264.25	264.80	0.003716	1.54	6.73	7.22	0.51
monte	63	Max WS	A TR_30 2H	13.17	263.20	264.90	264.39	265.02	0.003340	1.58	8.35	7.98	0.49
monte	63	Max WS	A TR_30 3H	13.35	263.20	264.91	264.40	265.04	0.003317	1.58	8.46	8.03	0.49
monte	63	Max WS	A TR_30 4H	12.76	263.20	264.87	264.37	264.99	0.003375	1.57	8.13	7.88	0.49
monte	63	Max WS	A TR_30 6H	10.99	263.20	264.74	264.28	264.86	0.003542	1.54	7.14	7.42	0.50
monte	63	Max WS	A TR_30 8H	9.59	263.20	264.63	264.21	264.75	0.003671	1.51	6.37	7.03	0.51
monte	63	Max WS	A TR_30 12H	7.70	263.20	264.48	264.09	264.58	0.003842	1.45	5.32	6.47	0.51
monte	62	Max WS	A TR_200 1H	21.74	262.33	265.16	264.34	265.30	0.002613	1.67	13.03	8.89	0.44
monte	62	Max WS	A TR_200 2H	27.30	262.33	265.74	264.54	265.85	0.001579	1.46	18.67	10.65	0.35
monte	62	Max WS	A TR_200 3H	27.04	262.33	265.72	264.53	265.83	0.001580	1.46	18.53	10.61	0.35
monte	62	Max WS	A TR_200 4H	25.02	262.33	265.50	264.46	265.62	0.001915	1.54	16.27	9.93	0.38
monte	62	Max WS	A TR_200 6H	21.73	262.33	265.24	264.33	265.36	0.002276	1.58	13.72	9.12	0.41
monte	62	Max WS	A TR_200 8H	18.79	262.33	264.99	264.22	265.12	0.002684	1.63	11.56	8.37	0.44
monte	62	Max WS	A TR_200 12H	15.00	262.33	264.66	264.05	264.80	0.003348	1.67	8.99	7.37	0.48
monte	62	Max WS	A TR_30 1H	10.39	262.33	264.22	263.79	264.37	0.004695	1.73	6.01	6.02	0.55
monte	62	Max WS	A TR_30 2H	13.15	262.33	264.50	263.95	264.64	0.003742	1.68	7.81	6.87	0.50
monte	62	Max WS	A TR_30 3H	13.34	262.33	264.51	263.96	264.66	0.003697	1.68	7.93	6.92	0.50
monte	62	Max WS	A TR_30 4H	12.75	262.33	264.46	263.93	264.61	0.003829	1.69	7.57	6.76	0.51

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)	
monte	62	Max WS	A TR_30 6H	10.99	262.33	264.30	263.83	264.44	0.004228	1.69	6.52	6.27	0.53
monte	62	Max WS	A TR_30 8H	9.59	262.33	264.17	263.75	264.31	0.004544	1.67	5.73	5.88	0.54
monte	62	Max WS	A TR_30 12H	7.69	262.33	263.98	263.61	264.12	0.005002	1.64	4.68	5.31	0.56
monte	61	Max WS	A TR_200 1H	21.74	262.26	264.84		265.32	0.003913	3.07	7.09	11.38	0.64
monte	61	Max WS	A TR_200 2H	27.25	262.26	265.36		265.86	0.003177	3.15	8.64	13.01	0.59
monte	61	Max WS	A TR_200 3H	26.90	262.26	265.35		265.85	0.003126	3.12	8.62	12.99	0.59
monte	61	Max WS	A TR_200 4H	25.02	262.26	265.11		265.62	0.003630	3.17	7.89	12.22	0.62
monte	61	Max WS	A TR_200 6H	21.73	262.26	264.84		265.32	0.003915	3.07	7.09	11.38	0.64
monte	61	Max WS	A TR_200 8H	18.79	262.26	264.59		265.03	0.004261	2.97	6.33	10.59	0.65
monte	61	Max WS	A TR_200 12H	14.99	262.26	264.24		264.65	0.004898	2.83	5.30	9.58	0.68
monte	61	Max WS	A TR_30 1H	10.38	262.26	263.76		264.13	0.006728	2.69	3.87	8.05	0.75
monte	61	Max WS	A TR_30 2H	13.15	262.26	264.06		264.45	0.005409	2.76	4.76	9.06	0.70
monte	61	Max WS	A TR_30 3H	13.34	262.26	264.08		264.47	0.005344	2.77	4.81	9.12	0.70
monte	61	Max WS	A TR_30 4H	12.75	262.26	264.02		264.40	0.005548	2.75	4.63	8.94	0.71
monte	61	Max WS	A TR_30 6H	10.99	262.26	263.83		264.20	0.006336	2.70	4.07	8.29	0.74
monte	61	Max WS	A TR_30 8H	9.59	262.26	263.67		264.03	0.007366	2.67	3.59	7.73	0.78
monte	61	Max WS	A TR_30 12H	7.69	262.26	263.41		263.79	0.010600	2.73	2.82	6.84	0.90
monte	60.99			Culvert									
monte	60.9	Max WS	A TR_200 1H	20.87	261.54	264.22	263.24	264.56	0.002224	2.60	8.03	4.00	0.51
monte	60.9	Max WS	A TR_200 2H	25.35	261.54	265.07	263.48	265.36	0.001308	2.39	10.59	4.00	0.41
monte	60.9	Max WS	A TR_200 3H	26.58	261.54	265.02	263.54	265.35	0.001497	2.54	10.46	4.00	0.43
monte	60.9	Max WS	A TR_200 4H	25.79	261.54	264.85	263.50	265.19	0.001679	2.60	9.92	4.00	0.46
monte	60.9	Max WS	A TR_200 6H	21.72	261.54	264.30	263.29	264.65	0.002160	2.62	8.30	4.00	0.50
monte	60.9	Max WS	A TR_200 8H	18.76	261.54	264.02	263.13	264.35	0.002299	2.51	7.46	4.00	0.51
monte	60.9	Max WS	A TR_200 12H	14.99	261.54	263.66	262.90	263.94	0.002504	2.36	6.36	4.00	0.52
monte	60.9	Max WS	A TR_30 1H	10.24	261.54	263.11	262.60	263.35	0.003161	2.17	4.71	4.00	0.55
monte	60.9	Max WS	A TR_30 2H	12.39	261.54	263.48	262.74	263.71	0.002271	2.12	5.84	4.00	0.49
monte	60.9	Max WS	A TR_30 3H	12.87	261.54	263.51	262.77	263.75	0.002343	2.18	5.92	4.00	0.49
monte	60.9	Max WS	A TR_30 4H	12.54	261.54	263.44	262.75	263.69	0.002496	2.19	5.72	4.00	0.51
monte	60.9	Max WS	A TR_30 6H	10.86	261.54	263.26	262.64	263.49	0.002602	2.10	5.18	4.00	0.51
monte	60.9	Max WS	A TR_30 8H	9.55	261.54	263.11	262.55	263.32	0.002727	2.02	4.73	4.00	0.51
monte	60.9	Max WS	A TR_30 12H	7.69	261.54	262.89	262.41	263.08	0.002922	1.89	4.07	4.00	0.52
monte	60.5571	Max WS	A TR_200 1H	20.92	261.53	264.33	262.94	264.51	0.003492	1.87	11.18	4.00	0.36
monte	60.5571	Max WS	A TR_200 2H	25.30	261.53	265.20	263.13	265.35	0.002582	1.72	14.68	4.00	0.29
monte	60.5571	Max WS	A TR_200 3H	26.89	261.53	265.17	263.20	265.35	0.002973	1.85	14.56	4.00	0.31
monte	60.5571	Max WS	A TR_200 4H	25.80	261.53	265.00	263.15	265.18	0.003087	1.86	13.87	4.00	0.32
monte	60.5571	Max WS	A TR_200 6H	21.72	261.53	264.47	262.98	264.64	0.003338	1.85	11.73	4.00	0.35
monte	60.5571	Max WS	A TR_200 8H	18.76	261.53	264.17	262.84	264.33	0.003259	1.78	10.56	4.00	0.35
monte	60.5571	Max WS	A TR_200 12H	14.99	261.53	263.79	262.66	263.93	0.003139	1.66	9.01	4.00	0.35
monte	60.5571	Max WS	A TR_30 1H	10.24	261.53	263.18	262.41	263.31	0.003382	1.55	6.60	4.00	0.39
monte	60.5571	Max WS	A TR_30 2H	12.49	261.53	263.59	262.53	263.71	0.002778	1.52	8.22	4.00	0.34
monte	60.5571	Max WS	A TR_30 3H	12.88	261.53	263.62	262.56	263.74	0.002837	1.54	8.35	4.00	0.34
monte	60.5571	Max WS	A TR_30 4H	12.57	261.53	263.56	262.54	263.68	0.002937	1.55	8.09	4.00	0.35
monte	60.5571	Max WS	A TR_30 6H	10.92	261.53	263.37	262.45	263.48	0.002886	1.49	7.33	4.00	0.35
monte	60.5571	Max WS	A TR_30 8H	9.55	261.53	263.21	262.37	263.31	0.002823	1.43	6.69	4.00	0.35
monte	60.5571	Max WS	A TR_30 12H	7.69	261.53	262.98	262.26	263.07	0.002758	1.33	5.77	4.00	0.35
valle	60.505	Max WS	A TR_200 1H	25.93	261.53	264.33	263.16	264.60	0.005362	2.32	11.19	4.00	0.44
valle	60.505	Max WS	A TR_200 2H	32.80	261.53	265.20	263.43	265.46	0.004335	2.23	14.68	4.00	0.37
valle	60.505	Max WS	A TR_200 3H	32.54	261.53	265.17	263.43	265.43	0.004352	2.23	14.56	4.00	0.37
valle	60.505	Max WS	A TR_200 4H	31.51	261.53	265.00	263.38	265.26	0.004600	2.27	13.88	4.00	0.39
valle	60.505	Max WS	A TR_200 6H	26.30	261.53	264.47	263.17	264.72	0.004889	2.24	11.73	4.00	0.42
valle	60.505	Max WS	A TR_200 8H	22.66	261.53	264.17	263.02	264.41	0.004746	2.15	10.56	4.00	0.42
valle	60.505	Max WS	A TR_200 12H	18.09	261.53	263.79	262.81	263.99	0.004566	2.01	9.01	4.00	0.43
valle	60.505	Max WS	A TR_30 1H	12.12	261.53	263.18	262.51	263.35	0.004723	1.84	6.60	4.00	0.46
valle	60.505	Max WS	A TR_30 2H	15.83	261.53	263.59	262.71	263.78	0.004458	1.93	8.22	4.00	0.43
valle	60.505	Max WS	A TR_30 3H	16.18	261.53	263.62	262.72	263.81	0.004473	1.94	8.35	4.00	0.43
valle	60.505	Max WS	A TR_30 4H	15.47	261.53	263.56	262.69	263.74	0.004443	1.91	8.09	4.00	0.43
valle	60.505	Max WS	A TR_30 6H	13.34	261.53	263.37	262.58	263.53	0.004304	1.82	7.33	4.00	0.43
valle	60.505	Max WS	A TR_30 8H	11.64	261.53	263.21	262.48	263.36	0.004185	1.74	6.70	4.00	0.43
valle	60.505	Max WS	A TR_30 12H	9.29	261.53	262.98	262.35	263.11	0.004018	1.61	5.77	4.00	0.43
valle	60.5	Max WS	A TR_200 1H	25.93	261.53	264.17		264.72	0.003591	3.27	7.92	4.00	0.64
valle	60.5	Max WS	A TR_200 2H	32.79	261.53	264.95		265.47	0.002433	3.20	10.26	4.00	0.55
valle	60.5	Max WS	A TR_200 3H	32.54	261.53	264.92		265.44	0.002466	3.20	10.17	4.00	0.56
valle	60.5	Max WS	A TR_200 4H	31.51	261.53	264.74		265.28	0.002787	3.28	9.61	4.00	0.58
valle	60.5	Max WS	A TR_200 6H	26.30	261.53	264.20		264.75	0.003572	3.29	8.01	4.00	0.64
valle	60.5	Max WS	A TR_200 8H	22.66	261.53	263.93		264.44	0.003784	3.15	7.19	4.00	0.65
valle	60.5	Max WS	A TR_200 12H	18.09	261.53	263.57		264.02	0.004123	2.95	6.13	4.00	0.66
valle	60.5	Max WS	A TR_30 1H	12.12	261.53	263.09		263.43	0.004570	2.59	4.67	4.00	0.66
valle	60.5	Max WS	A TR_30 2H	15.83	261.53	263.39		263.80	0.004303	2.84	5.58	4.00	0.66
valle	60.5	Max WS	A TR_30 3H	16.18	261.53	263.42		263.84	0.004271	2.85	5.67	4.00	0.66
valle	60.5	Max WS	A TR_30 4H	15.47	261.53	263.36		263.77	0.004340	2.82	5.49	4.00	0.66
valle	60.5	Max WS	A TR_30 6H	13.34	261.53	263.19		263.56	0.004484	2.68	4.98	4.00	0.66
valle	60.5	Max WS	A TR_30 8H	11.64	261.53	263.05		263.38	0.004611	2.56	4.55	4.00	0.66
valle	60.5	Max WS	A TR_30 12H	9.29	261.53	262.84		263.13	0.004825	2.37	3.92	4.00	0.66
valle	60.4			Culvert									
valle	56.2	Max WS	A TR_200 1H	25.93	257.30	260.44	259.52	260.90	0.003113	2.99	8.66	9.35	0.56
valle	56.2	Max WS	A TR_200 2H	32.67	257.30	260.44	259.85	261.17	0.004926	3.77	8.67	9.35	0.71
valle	56.2	Max WS	A TR_200 3H	32.54	257.30	260.44	259.84	261.16	0.004893	3.76	8.66	9.35	0.71
valle	56.2	Max WS	A TR_200 4H	31.50	257.30	260.43	259.79	261.11	0.004637	3.65	8.64	9.35	0.69
valle	56.2	Max WS	A TR_200 6H	26.30	257.30	260.36	259.54	260.85	0.003532	3.13	8.41	9.35	0.60
valle	56.2	Max WS	A TR_200 8H	22.66	257.30	260.13	259.35	260.57	0.003445	2.92	7.75	9.34	0.58
valle	56.2	Max WS	A TR_200 12H	18.09	257.30	259.82	259.10	260.18	0.003383	2.66	6.81	9.33	0.56
valle	56.2	Max WS	A TR_30 1H	12.11	257.30	259.26	258.74	259.54	0.003927	2.37	5.12	9.31	0.58

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)	
valle	56.2	Max WS	A TR_30 2H	15.81	257.30	259.67	258.97	259.99	0.003249	2.49	6.35	9.32	0.55
valle	56.2	Max WS	A TR_30 3H	16.18	257.30	259.70	258.99	260.02	0.003226	2.51	6.46	9.32	0.55
valle	56.2	Max WS	A TR_30 4H	15.46	257.30	259.66	258.95	259.97	0.003152	2.44	6.33	9.32	0.54
valle	56.2	Max WS	A TR_30 6H	13.30	257.30	259.35	258.82	259.66	0.004011	2.47	5.38	9.31	0.59
valle	56.2	Max WS	A TR_30 8H	11.64	257.30	259.18	258.70	259.47	0.004207	2.38	4.89	9.31	0.59
valle	56.2	Max WS	A TR_30 12H	9.29	257.30	258.85	258.55	259.14	0.005797	2.39	3.88	9.29	0.67
valle	56.19			Lat Struct									
valle	56.18			Lat Struct									
valle	56.1	Max WS	A TR_200 1H	25.90	257.30	260.64	258.79	260.69	0.000596	1.00	25.79	9.77	0.19
valle	56.1	Max WS	A TR_200 2H	29.71	257.30	260.87	258.89	260.93	0.000598	1.06	28.05	9.77	0.20
valle	56.1	Max WS	A TR_200 3H	29.63	257.30	260.87	258.88	260.92	0.000598	1.06	28.01	9.77	0.20
valle	56.1	Max WS	A TR_200 4H	29.09	257.30	260.84	258.87	260.89	0.000595	1.05	27.74	9.77	0.20
valle	56.1	Max WS	A TR_200 6H	26.15	257.30	260.66	258.80	260.71	0.000590	1.01	26.02	9.77	0.19
valle	56.1	Max WS	A TR_200 8H	22.66	257.30	260.40	258.72	260.45	0.000588	0.96	23.59	9.35	0.19
valle	56.1	Max WS	A TR_200 12H	18.09	257.30	260.04	258.60	260.09	0.000584	0.89	20.24	9.34	0.19
valle	56.1	Max WS	A TR_30 1H	12.11	257.30	259.37	258.43	259.41	0.000782	0.87	13.99	9.31	0.23
valle	56.1	Max WS	A TR_30 2H	15.82	257.30	259.87	258.54	259.90	0.000574	0.85	18.59	9.33	0.19
valle	56.1	Max WS	A TR_30 3H	16.18	257.30	259.90	258.55	259.94	0.000568	0.85	18.93	9.33	0.19
valle	56.1	Max WS	A TR_30 4H	15.46	257.30	259.85	258.53	259.89	0.000561	0.84	18.43	9.33	0.19
valle	56.1	Max WS	A TR_30 6H	13.32	257.30	259.54	258.46	259.57	0.000697	0.86	15.48	9.32	0.21
valle	56.1	Max WS	A TR_30 8H	11.64	257.30	259.36	258.41	259.39	0.000747	0.84	13.83	9.31	0.22
valle	56.1	Max WS	A TR_30 12H	9.29	257.30	259.01	258.34	259.05	0.001073	0.88	10.59	9.30	0.26
valle	56	Max WS	A TR_200 1H	25.90	257.30	260.64	258.80	260.69	0.000597	1.00	25.78	9.57	0.19
valle	56	Max WS	A TR_200 2H	29.71	257.30	260.87	258.88	260.93	0.000612	1.06	28.00	9.57	0.20
valle	56	Max WS	A TR_200 3H	29.63	257.30	260.86	258.88	260.92	0.000611	1.06	27.96	9.57	0.20
valle	56	Max WS	A TR_200 4H	29.09	257.30	260.84	258.87	260.89	0.000606	1.05	27.69	9.57	0.20
valle	56	Max WS	A TR_200 6H	26.15	257.30	260.66	258.80	260.71	0.000592	1.01	26.01	9.57	0.19
valle	56	Max WS	A TR_200 8H	22.66	257.30	260.40	258.72	260.45	0.000589	0.96	23.59	9.35	0.19
valle	56	Max WS	A TR_200 12H	18.09	257.30	260.04	258.60	260.08	0.000585	0.89	20.23	9.34	0.19
valle	56	Max WS	A TR_30 1H	12.11	257.30	259.37	258.43	259.41	0.000782	0.87	13.99	9.31	0.23
valle	56	Max WS	A TR_30 2H	15.82	257.30	259.87	258.54	259.90	0.000574	0.85	18.58	9.33	0.19
valle	56	Max WS	A TR_30 3H	16.18	257.30	259.90	258.55	259.94	0.000569	0.85	18.92	9.33	0.19
valle	56	Max WS	A TR_30 4H	15.46	257.30	259.85	258.53	259.89	0.000561	0.84	18.43	9.33	0.19
valle	56	Max WS	A TR_30 6H	13.32	257.30	259.53	258.46	259.57	0.000698	0.86	15.48	9.32	0.21
valle	56	Max WS	A TR_30 8H	11.64	257.30	259.36	258.41	259.39	0.000748	0.84	13.82	9.31	0.22
valle	56	Max WS	A TR_30 12H	9.29	257.30	259.01	258.34	259.05	0.001074	0.88	10.59	9.30	0.26
valle	55.5			Bridge									
valle	55	Max WS	A TR_200 1H	25.90	257.33	259.89	258.73	259.96	0.000759	1.23	24.30	20.21	0.27
valle	55	Max WS	A TR_200 2H	29.71	257.33	259.99	258.81	260.07	0.000825	1.32	26.40	20.69	0.29
valle	55	Max WS	A TR_200 3H	29.62	257.33	259.99	258.81	260.07	0.000823	1.32	26.37	20.68	0.29
valle	55	Max WS	A TR_200 4H	29.08	257.33	259.98	258.80	260.06	0.000810	1.30	26.13	20.63	0.28
valle	55	Max WS	A TR_200 6H	26.15	257.33	259.90	258.73	259.97	0.000751	1.23	24.63	20.28	0.27
valle	55	Max WS	A TR_200 8H	22.65	257.33	259.81	258.66	259.87	0.000668	1.12	22.83	19.86	0.25
valle	55	Max WS	A TR_200 12H	18.09	257.33	259.69	258.54	259.73	0.000533	0.96	20.30	12.26	0.22
valle	55	Max WS	A TR_30 1H	12.11	257.33	259.24	258.37	259.28	0.000610	0.85	14.95	11.71	0.23
valle	55	Max WS	A TR_30 2H	15.80	257.33	259.60	258.48	259.63	0.000481	0.88	19.22	12.15	0.21
valle	55	Max WS	A TR_30 3H	16.18	257.33	259.62	258.49	259.66	0.000482	0.89	19.50	12.18	0.21
valle	55	Max WS	A TR_30 4H	15.46	257.33	259.59	258.47	259.63	0.000464	0.86	19.17	12.14	0.21
valle	55	Max WS	A TR_30 6H	13.30	257.33	259.36	258.40	259.40	0.000558	0.86	16.37	11.86	0.22
valle	55	Max WS	A TR_30 8H	11.64	257.33	259.23	258.35	259.27	0.000571	0.82	14.89	11.71	0.22
valle	55	Max WS	A TR_30 12H	9.29	257.33	258.99	258.28	259.02	0.000693	0.80	12.10	11.41	0.24
valle	54.9			Lat Struct									
valle	54.8			Lat Struct									
valle	54	Max WS	A TR_200 1H	25.90	257.25	259.80	258.93	259.96	0.001753	1.84	16.10	14.36	0.41
valle	54	Max WS	A TR_200 2H	29.68	257.25	259.87	259.04	260.07	0.002034	2.03	17.12	15.66	0.44
valle	54	Max WS	A TR_200 3H	29.61	257.25	259.87	259.04	260.06	0.002029	2.02	17.10	15.65	0.44
valle	54	Max WS	A TR_200 4H	29.08	257.25	259.86	259.02	260.05	0.001989	2.00	16.97	15.58	0.44
valle	54	Max WS	A TR_200 6H	26.15	257.25	259.80	258.93	259.97	0.001795	1.86	16.06	14.28	0.41
valle	54	Max WS	A TR_200 8H	22.66	257.25	259.73	258.82	259.86	0.001527	1.68	15.13	12.25	0.38
valle	54	Max WS	A TR_200 12H	18.09	257.25	259.62	258.67	259.72	0.001175	1.42	13.93	10.49	0.33
valle	54	Max WS	A TR_30 1H	12.10	257.25	259.18	258.44	259.26	0.001327	1.26	10.01	8.13	0.34
valle	54	Max WS	A TR_30 2H	15.80	257.25	259.54	258.59	259.63	0.001045	1.30	13.13	9.77	0.31
valle	54	Max WS	A TR_30 3H	16.18	257.25	259.56	258.60	259.65	0.001049	1.31	13.35	9.95	0.31
valle	54	Max WS	A TR_30 4H	15.46	257.25	259.54	258.58	259.62	0.001005	1.27	13.11	9.75	0.30
valle	54	Max WS	A TR_30 6H	13.30	257.25	259.30	258.49	259.38	0.001225	1.28	10.97	8.39	0.33
valle	54	Max WS	A TR_30 8H	11.63	257.25	259.18	258.42	259.25	0.001243	1.22	9.97	8.12	0.32
valle	54	Max WS	A TR_30 12H	9.29	257.25	258.94	258.31	259.01	0.001498	1.18	8.05	7.58	0.35
valle	53.5			Bridge									
valle	53	Max WS	A TR_200 1H	25.90	257.27	259.66	258.97	259.80	0.002350	1.67	15.70	12.37	0.44
valle	53	Max WS	A TR_200 2H	29.68	257.27	259.71	259.08	259.88	0.002757	1.85	16.32	12.65	0.48
valle	53	Max WS	A TR_200 3H	29.61	257.27	259.71	259.07	259.88	0.002752	1.85	16.30	12.64	0.48
valle	53	Max WS	A TR_200 4H	29.08	257.27	259.70	259.06	259.87	0.002692	1.83	16.22	12.61	0.48
valle	53	Max WS	A TR_200 6H	26.15	257.27	259.65	258.98	259.80	0.002437	1.70	15.61	12.33	0.45
valle	53	Max WS	A TR_200 8H	22.66	257.27	259.60	258.87	259.72	0.002085	1.53	14.94	12.02	0.41
valle	53	Max WS	A TR_200 12H	18.09	257.27	259.52	258.72	259.60	0.001608	1.30	14.03	11.59	0.36
valle	53	Max WS	A TR_30 1H	12.04	257.27	259.17	258.47	259.24	0.001731	1.16	10.38	9.80	0.36
valle	53	Max WS	A TR_30 2H	15.59	257.27	259.46	258.62	259.53	0.001398	1.17	13.35	11.14	0.33
valle	53	Max WS	A TR_30 3H	16.13	257.27	259.48	258.64	259.55	0.001426	1.19	13.55	11.28	0.34
valle	53	Max WS	A TR_30 4H	15.45	257.27	259.46	258.62	259.53	0.001373	1.16	13.35	11.14	0.33
valle	53	Max WS	A TR_30 6H	13.30	257.27	259.31	258.53	259.37	0.001517	1.13	11.74	10.42	0.34

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)	
valle	53	Max WS	A TR_30 8H	11.62	257.27	259.15	258.45	259.22	0.001694	1.14	10.18	9.72	0.36
valle	53	Max WS	A TR_30 12H	9.29	257.27	258.94	258.33	259.01	0.001922	1.13	8.22	8.74	0.37
valle	52.98			Lat Struct									
valle	52.9			Lat Struct									
valle	52	Max WS	A TR_200 1H	24.66	256.97	259.46	258.62	259.56	0.001585	1.37	18.65	16.72	0.37
valle	52	Max WS	A TR_200 2H	28.27	256.97	259.47	258.72	259.59	0.002038	1.56	18.81	16.75	0.42
valle	52	Max WS	A TR_200 3H	27.63	256.97	259.47	258.70	259.59	0.001948	1.52	18.81	16.75	0.41
valle	52	Max WS	A TR_200 4H	27.70	256.97	259.47	258.70	259.59	0.001961	1.53	18.80	16.74	0.41
valle	52	Max WS	A TR_200 6H	25.04	256.97	259.46	258.63	259.56	0.001655	1.40	18.55	16.71	0.37
valle	52	Max WS	A TR_200 8H	21.83	256.97	259.44	258.53	259.52	0.001305	1.23	18.27	16.66	0.33
valle	52	Max WS	A TR_200 12H	17.67	256.97	259.41	258.40	259.46	0.000923	1.03	17.71	16.57	0.28
valle	52	Max WS	A TR_30 1H	11.99	256.97	259.04	258.18	259.08	0.001036	0.94	12.73	11.44	0.28
valle	52	Max WS	A TR_30 2H	15.44	256.97	259.36	258.32	259.41	0.000780	0.93	16.98	16.46	0.26
valle	52	Max WS	A TR_30 3H	15.93	256.97	259.38	258.34	259.42	0.000799	0.94	17.25	16.50	0.26
valle	52	Max WS	A TR_30 4H	15.32	256.97	259.36	258.32	259.41	0.000765	0.92	17.01	16.46	0.25
valle	52	Max WS	A TR_30 6H	13.29	256.97	259.20	258.24	259.24	0.000846	0.91	14.64	12.19	0.26
valle	52	Max WS	A TR_30 8H	11.61	256.97	259.02	258.17	259.07	0.001006	0.92	12.57	11.37	0.28
valle	52	Max WS	A TR_30 12H	9.29	256.97	258.78	258.06	258.83	0.001203	0.93	9.97	10.20	0.30
valle	51.98			Lat Struct									
valle	51.9			Lat Struct									
valle	51	Max WS	A TR_200 1H	16.32	256.74	259.41	258.16	259.45	0.000634	0.87	18.93	13.93	0.23
valle	51	Max WS	A TR_200 2H	16.75	256.74	259.45	258.18	259.49	0.000609	0.86	19.48	13.93	0.23
valle	51	Max WS	A TR_200 3H	16.75	256.74	259.45	258.18	259.49	0.000610	0.86	19.47	13.93	0.23
valle	51	Max WS	A TR_200 4H	16.71	256.74	259.44	258.17	259.48	0.000613	0.86	19.42	13.93	0.23
valle	51	Max WS	A TR_200 6H	16.40	256.74	259.42	258.16	259.45	0.000628	0.86	19.03	13.93	0.23
valle	51	Max WS	A TR_200 8H	16.00	256.74	259.38	258.14	259.42	0.000648	0.86	18.56	13.84	0.23
valle	51	Max WS	A TR_200 12H	15.51	256.74	259.32	258.13	259.36	0.000700	0.88	17.72	13.52	0.24
valle	51	Max WS	A TR_30 1H	12.21	256.74	258.86	257.98	258.91	0.001196	1.00	12.16	10.91	0.30
valle	51	Max WS	A TR_30 2H	15.28	256.74	259.25	258.12	259.29	0.000803	0.91	16.75	13.06	0.26
valle	51	Max WS	A TR_30 3H	15.30	256.74	259.27	258.12	259.31	0.000758	0.90	17.09	13.26	0.25
valle	51	Max WS	A TR_30 4H	15.13	256.74	259.25	258.11	259.29	0.000777	0.90	16.82	13.10	0.25
valle	51	Max WS	A TR_30 6H	13.62	256.74	259.06	258.05	259.10	0.000964	0.95	14.36	11.96	0.28
valle	51	Max WS	A TR_30 8H	11.90	256.74	258.85	257.97	258.90	0.001166	0.99	12.04	10.85	0.30
valle	51	Max WS	A TR_30 12H	9.50	256.74	258.57	257.84	258.62	0.001504	1.04	9.18	9.30	0.33
valle	50.5			Bridge									
valle	50	Max WS	A TR_200 1H	16.32	256.52	259.04	257.97	259.09	0.000940	1.00	16.39	12.32	0.28
valle	50	Max WS	A TR_200 2H	16.67	256.52	259.06	257.98	259.11	0.000939	1.00	16.64	12.69	0.28
valle	50	Max WS	A TR_200 3H	16.66	256.52	259.06	257.98	259.11	0.000937	1.00	16.64	12.69	0.28
valle	50	Max WS	A TR_200 4H	16.70	256.52	259.06	257.98	259.11	0.000949	1.01	16.59	12.61	0.28
valle	50	Max WS	A TR_200 6H	16.38	256.52	259.05	257.97	259.10	0.000939	1.00	16.44	12.34	0.28
valle	50	Max WS	A TR_200 8H	15.99	256.52	259.03	257.95	259.08	0.000922	0.98	16.26	12.27	0.27
valle	50	Max WS	A TR_200 12H	15.50	256.52	259.00	257.93	259.04	0.000932	0.98	15.82	12.10	0.27
valle	50	Max WS	A TR_30 1H	12.17	256.52	258.70	257.79	258.75	0.001094	0.98	12.43	10.72	0.29
valle	50	Max WS	A TR_30 2H	15.18	256.52	258.94	257.92	258.99	0.001005	1.00	15.14	11.84	0.28
valle	50	Max WS	A TR_30 3H	15.24	256.52	258.96	257.92	259.01	0.000966	0.99	15.41	11.94	0.28
valle	50	Max WS	A TR_30 4H	15.10	256.52	258.95	257.92	259.00	0.000975	0.99	15.26	11.88	0.28
valle	50	Max WS	A TR_30 6H	13.61	256.52	258.82	257.85	258.87	0.001029	0.98	13.83	11.31	0.28
valle	50	Max WS	A TR_30 8H	11.89	256.52	258.70	257.78	258.74	0.001047	0.96	12.41	10.71	0.28
valle	50	Max WS	A TR_30 12H	9.50	256.52	258.50	257.65	258.54	0.001067	0.91	10.42	9.81	0.28
valle	49.98			Lat Struct									
valle	49.9			Lat Struct									
valle	49	Max WS	A TR_200 1H	16.21	256.50	258.93	257.93	258.98	0.000935	1.01	16.26	15.31	0.28
valle	49	Max WS	A TR_200 2H	15.92	256.50	258.96	257.92	259.01	0.000834	0.97	16.73	15.31	0.26
valle	49	Max WS	A TR_200 3H	15.91	256.50	258.96	257.92	259.01	0.000832	0.97	16.73	15.31	0.26
valle	49	Max WS	A TR_200 4H	16.10	256.50	258.95	257.93	259.00	0.000869	0.99	16.62	15.31	0.27
valle	49	Max WS	A TR_200 6H	16.13	256.50	258.93	257.93	258.98	0.000909	1.00	16.37	15.31	0.28
valle	49	Max WS	A TR_200 8H	16.06	256.50	258.92	257.93	258.97	0.000943	1.01	16.10	15.31	0.28
valle	49	Max WS	A TR_200 12H	15.83	256.50	258.87	257.92	258.93	0.001024	1.03	15.45	14.60	0.29
valle	49	Max WS	A TR_30 1H	12.32	256.50	258.55	257.78	258.60	0.001395	1.06	11.57	10.77	0.33
valle	49	Max WS	A TR_30 2H	15.39	256.50	258.80	257.90	258.86	0.001161	1.06	14.51	12.30	0.31
valle	49	Max WS	A TR_30 3H	15.54	256.50	258.83	257.91	258.89	0.001101	1.05	14.88	13.22	0.30
valle	49	Max WS	A TR_30 4H	15.39	256.50	258.82	257.90	258.87	0.001122	1.05	14.69	12.73	0.30
valle	49	Max WS	A TR_30 6H	13.86	256.50	258.68	257.84	258.74	0.001270	1.06	13.09	11.45	0.32
valle	49	Max WS	A TR_30 8H	12.11	256.50	258.55	257.77	258.60	0.001339	1.04	11.60	10.79	0.32
valle	49	Max WS	A TR_30 12H	9.67	256.50	258.35	257.65	258.40	0.001445	1.02	9.53	9.78	0.33
valle	48	Max WS	A TR_200 1H	16.72	256.09	258.76	257.77	258.82	0.000890	1.10	15.56	10.06	0.28
valle	48	Max WS	A TR_200 2H	16.27	256.09	258.82	257.74	258.87	0.000746	1.03	16.16	10.16	0.25
valle	48	Max WS	A TR_200 3H	16.25	256.09	258.82	257.75	258.87	0.000745	1.03	16.17	10.16	0.25
valle	48	Max WS	A TR_200 4H	16.45	256.09	258.80	257.76	258.86	0.000788	1.05	16.00	10.06	0.26
valle	48	Max WS	A TR_200 6H	16.61	256.09	258.77	257.76	258.83	0.000855	1.08	15.69	10.06	0.27
valle	48	Max WS	A TR_200 8H	16.59	256.09	258.74	257.76	258.81	0.000905	1.10	15.40	10.05	0.28
valle	48	Max WS	A TR_200 12H	16.32	256.09	258.68	257.75	258.75	0.000995	1.13	14.81	10.05	0.29
valle	48	Max WS	A TR_30 1H	12.55	256.09	258.25	257.58	258.32	0.001816	1.22	10.42	10.03	0.37
valle	48	Max WS	A TR_30 2H	15.77	256.09	258.59	257.73	258.66	0.001155	1.16	13.84	10.05	0.31
valle	48	Max WS	A TR_30 3H	16.00	256.09	258.63	257.74	258.70	0.001081	1.15	14.25	10.05	0.30
valle	48	Max WS	A TR_30 4H	15.83	256.09	258.61	257.73	258.68	0.001103	1.15	14.07	10.05	0.30
valle	48	Max WS	A TR_30 6H	14.24	256.09	258.43	257.66	258.50	0.001376	1.18	12.30	10.04	0.33
valle	48	Max WS	A TR_30 8H	12.44	256.09	258.26	257.57	258.33	0.001710	1.19	10.56	10.03	0.36
valle	48	Max WS	A TR_30 12H	9.93	256.09	257.99	257.43	258.07	0.002570	1.25	7.92	9.12	0.42

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)	
valle	47.5			Bridge									
valle	47	Max WS	A TR_200 1H	16.67	256.23	258.57	257.58	258.63	0.000994	1.13	15.23	11.61	0.29
valle	47	Max WS	A TR_200 2H	16.27	256.23	258.63	257.57	258.69	0.000818	1.06	15.99	11.87	0.27
valle	47	Max WS	A TR_200 3H	16.25	256.23	258.63	257.57	258.69	0.000815	1.06	16.01	11.88	0.27
valle	47	Max WS	A TR_200 4H	16.42	256.23	258.61	257.57	258.67	0.000870	1.08	15.77	11.80	0.28
valle	47	Max WS	A TR_200 6H	16.61	256.23	258.58	257.57	258.64	0.000955	1.12	15.39	11.67	0.29
valle	47	Max WS	A TR_200 8H	16.59	256.23	258.55	257.58	258.62	0.001011	1.14	15.09	11.56	0.29
valle	47	Max WS	A TR_200 12H	16.32	256.23	258.50	257.57	258.57	0.001094	1.16	14.53	11.37	0.31
valle	47	Max WS	A TR_30 1H	12.53	256.23	258.19	257.41	258.25	0.001389	1.14	11.13	10.01	0.33
valle	47	Max WS	A TR_30 2H	15.73	256.23	258.43	257.54	258.50	0.001218	1.18	13.69	11.06	0.32
valle	47	Max WS	A TR_30 3H	15.98	256.23	258.46	257.55	258.53	0.001162	1.17	14.04	11.19	0.31
valle	47	Max WS	A TR_30 4H	15.82	256.23	258.45	257.55	258.52	0.001174	1.17	13.90	11.14	0.31
valle	47	Max WS	A TR_30 6H	14.23	256.23	258.32	257.48	258.39	0.001300	1.16	12.53	10.63	0.33
valle	47	Max WS	A TR_30 8H	12.44	256.23	258.20	257.40	258.26	0.001327	1.12	11.27	10.07	0.33
valle	47	Max WS	A TR_30 12H	9.93	256.23	258.01	257.28	258.07	0.001378	1.06	9.43	9.20	0.33
valle	46	Max WS	A TR_200 1H	17.46	255.59	258.36	257.25	258.42	0.000999	1.06	16.50	11.74	0.28
valle	46	Max WS	A TR_200 2H	17.51	255.59	258.46	257.25	258.51	0.000835	0.99	17.68	12.15	0.26
valle	46	Max WS	A TR_200 3H	17.50	255.59	258.46	257.25	258.51	0.000833	0.99	17.70	12.16	0.26
valle	46	Max WS	A TR_200 4H	17.52	255.59	258.43	257.25	258.48	0.000882	1.01	17.34	12.03	0.27
valle	46	Max WS	A TR_200 6H	17.48	255.59	258.38	257.25	258.44	0.000961	1.04	16.76	11.83	0.28
valle	46	Max WS	A TR_200 8H	17.33	255.59	258.34	257.24	258.40	0.001012	1.06	16.33	11.68	0.29
valle	46	Max WS	A TR_200 12H	16.89	255.59	258.28	257.23	258.34	0.001090	1.08	15.58	11.41	0.30
valle	46	Max WS	A TR_30 1H	12.74	255.59	257.90	257.05	257.96	0.001384	1.11	11.53	9.81	0.33
valle	46	Max WS	A TR_30 2H	16.16	255.59	258.18	257.20	258.24	0.001225	1.12	14.42	10.97	0.31
valle	46	Max WS	A TR_30 3H	16.47	255.59	258.22	257.21	258.28	0.001166	1.10	14.91	11.16	0.31
valle	46	Max WS	A TR_30 4H	16.30	255.59	258.21	257.20	258.27	0.001176	1.11	14.74	11.10	0.31
valle	46	Max WS	A TR_30 6H	14.66	255.59	258.05	257.13	258.12	0.001306	1.12	13.09	10.46	0.32
valle	46	Max WS	A TR_30 8H	12.83	255.59	257.92	257.05	257.98	0.001323	1.09	11.78	9.92	0.32
valle	46	Max WS	A TR_30 12H	10.23	255.59	257.73	256.92	257.78	0.001338	1.03	9.90	9.09	0.32
valle	45	Max WS	A TR_200 1H	17.82	255.62	258.26	257.13	258.33	0.000928	1.14	15.69	13.24	0.28
valle	45	Max WS	A TR_200 2H	18.08	255.62	258.37	257.14	258.43	0.000790	1.08	16.78	13.80	0.26
valle	45	Max WS	A TR_200 3H	18.08	255.62	258.37	257.13	258.43	0.000788	1.08	16.79	13.81	0.26
valle	45	Max WS	A TR_200 4H	18.03	255.62	258.34	257.13	258.40	0.000830	1.10	16.46	13.63	0.27
valle	45	Max WS	A TR_200 6H	17.89	255.62	258.28	257.13	258.35	0.000897	1.12	15.92	13.36	0.28
valle	45	Max WS	A TR_200 8H	17.67	255.62	258.24	257.12	258.31	0.000939	1.14	15.53	13.15	0.29
valle	45	Max WS	A TR_200 12H	17.16	255.62	258.17	257.10	258.24	0.001006	1.16	14.85	12.79	0.29
valle	45	Max WS	A TR_30 1H	12.84	255.62	257.76	256.93	257.83	0.001271	1.15	11.19	10.73	0.32
valle	45	Max WS	A TR_30 2H	16.36	255.62	258.06	257.07	258.13	0.001135	1.19	13.77	12.20	0.31
valle	45	Max WS	A TR_30 3H	16.71	255.62	258.11	257.08	258.18	0.001078	1.17	14.23	12.45	0.30
valle	45	Max WS	A TR_30 4H	16.53	255.62	258.09	257.08	258.16	0.001086	1.17	14.09	12.38	0.30
valle	45	Max WS	A TR_30 6H	14.86	255.62	257.92	257.02	257.99	0.001215	1.18	12.58	11.54	0.32
valle	45	Max WS	A TR_30 8H	13.00	255.62	257.80	256.93	257.86	0.001219	1.14	11.45	10.89	0.31
valle	45	Max WS	A TR_30 12H	10.36	255.62	257.60	256.80	257.65	0.001221	1.06	9.79	9.89	0.31
valle	44.5			Bridge									
valle	44	Max WS	A TR_200 1H	17.82	255.50	258.19	257.01	258.26	0.000864	1.16	15.44	13.07	0.28
valle	44	Max WS	A TR_200 2H	18.08	255.50	258.29	257.02	258.35	0.000741	1.12	16.40	13.54	0.26
valle	44	Max WS	A TR_200 3H	18.08	255.50	258.29	257.02	258.35	0.000739	1.12	16.41	13.55	0.26
valle	44	Max WS	A TR_200 4H	18.03	255.50	258.26	257.02	258.32	0.000778	1.13	16.11	13.40	0.26
valle	44	Max WS	A TR_200 6H	17.89	255.50	258.21	257.01	258.28	0.000837	1.16	15.64	13.17	0.27
valle	44	Max WS	A TR_200 8H	17.67	255.50	258.18	257.01	258.24	0.000873	1.16	15.31	13.00	0.28
valle	44	Max WS	A TR_200 12H	17.16	255.50	258.11	256.98	258.18	0.000925	1.17	14.74	12.71	0.28
valle	44	Max WS	A TR_30 1H	12.84	255.50	257.77	256.81	257.83	0.001066	1.10	11.70	11.11	0.30
valle	44	Max WS	A TR_30 2H	16.35	255.50	258.02	256.96	258.09	0.001014	1.18	13.88	12.26	0.30
valle	44	Max WS	A TR_30 3H	16.70	255.50	258.06	256.97	258.13	0.000982	1.18	14.21	12.44	0.29
valle	44	Max WS	A TR_30 4H	16.52	255.50	258.04	256.96	258.11	0.000986	1.18	14.10	12.38	0.29
valle	44	Max WS	A TR_30 6H	14.86	255.50	257.92	256.90	257.99	0.001029	1.14	13.02	11.80	0.29
valle	44	Max WS	A TR_30 8H	13.00	255.50	257.80	256.82	257.86	0.001029	1.09	11.95	11.24	0.29
valle	44	Max WS	A TR_30 12H	10.36	255.50	257.60	256.69	257.65	0.000988	1.00	10.34	10.43	0.28
valle	43	Max WS	A TR_200 1H	18.43	255.33	258.08	256.90	258.13	0.000793	1.00	18.68	14.03	0.26
valle	43	Max WS	A TR_200 2H	19.04	255.33	258.20	256.92	258.25	0.000656	0.95	20.46	15.70	0.24
valle	43	Max WS	A TR_200 3H	19.05	255.33	258.20	256.92	258.25	0.000655	0.95	20.48	15.72	0.24
valle	43	Max WS	A TR_200 4H	18.89	255.33	258.16	256.91	258.21	0.000695	0.97	19.92	15.18	0.24
valle	43	Max WS	A TR_200 6H	18.57	255.33	258.11	256.90	258.16	0.000762	0.99	19.07	14.33	0.25
valle	43	Max WS	A TR_200 8H	18.25	255.33	258.07	256.89	258.12	0.000799	1.00	18.49	13.90	0.26
valle	43	Max WS	A TR_200 12H	17.60	255.33	257.99	256.86	258.05	0.000859	1.01	17.52	13.27	0.27
valle	43	Max WS	A TR_30 1H	13.04	255.33	257.61	256.70	257.66	0.001062	1.00	13.04	10.66	0.29
valle	43	Max WS	A TR_30 2H	16.69	255.33	257.88	256.83	257.94	0.000980	1.04	16.09	12.27	0.28
valle	43	Max WS	A TR_30 3H	17.09	255.33	257.93	256.85	257.98	0.000935	1.03	16.64	12.66	0.28
valle	43	Max WS	A TR_30 4H	16.91	255.33	257.91	256.84	257.97	0.000942	1.03	16.46	12.54	0.28
valle	43	Max WS	A TR_30 6H	15.19	255.33	257.78	256.78	257.83	0.001015	1.02	14.87	11.37	0.29
valle	43	Max WS	A TR_30 8H	13.30	255.33	257.65	256.71	257.70	0.001018	0.99	13.44	10.82	0.28
valle	43	Max WS	A TR_30 12H	10.59	255.33	257.45	256.58	257.49	0.001013	0.93	11.36	9.95	0.28
valle	42	Max WS	A TR_200 1H	19.01	255.14	257.95	256.79	258.02	0.000756	1.17	17.17	13.69	0.26
valle	42	Max WS	A TR_200 2H	19.96	255.14	258.08	256.82	258.15	0.000665	1.14	18.44	14.41	0.25
valle	42	Max WS	A TR_200 3H	19.98	255.14	258.08	256.82	258.15	0.000664	1.14	18.46	14.42	0.25
valle	42	Max WS	A TR_200 4H	19.71	255.14	258.04	256.81	258.11	0.000692	1.15	18.07	14.20	0.25
valle	42	Max WS	A TR_200 6H	19.23	255.14	257.98	256.80	258.05	0.000735	1.16	17.45	13.85	0.26
valle	42	Max WS	A TR_200 8H	18.80	255.14	257.93	256.78	258.00	0.000760	1.17	17.02	13.60	0.26
valle	42	Max WS	A TR_200 12H	18.03	255.14	257.86	256.75	257.92	0.000806	1.17	16.27	13.18	0.27
valle	42	Max WS	A TR_30 1H	13.22	255.14	257.44	256.55	257.50	0.001043	1.13	12.25	10.90	0.29
valle	42	Max WS	A TR_30 2H	17.03	255.14	257.72	256.71	257.79	0.000928	1.20	15.00	12.46	0.29
valle	42	Max WS	A TR_30 3H	17.47	255.14	257.78	256.73	257.84	0.000882	1.19	15.49	12.74	0.28
valle	42	Max WS	A TR_30 4H	17.27	255.14	257.76	256.72	257.83	0.000888	1.19	15.35	12.66	0.28

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)	
valle	42	Max WS	A TR_30 6H	15.51	255.14	257.61	256.65	257.68	0.000966	1.17	13.94	11.86	0.29
valle	42	Max WS	A TR_30 8H	13.58	255.14	257.48	256.56	257.54	0.000994	1.12	12.67	11.14	0.29
valle	42	Max WS	A TR_30 12H	10.82	255.14	257.27	256.42	257.33	0.001045	1.05	10.70	10.02	0.29
valle	41.5			Bridge									
valle	41	Max WS	A TR_200 1H	19.01	255.16	257.87	256.80	257.95	0.000947	1.22	16.12	12.11	0.29
valle	41	Max WS	A TR_200 2H	19.96	255.16	257.99	256.83	258.06	0.000846	1.20	17.21	12.63	0.27
valle	41	Max WS	A TR_200 3H	19.98	255.16	257.99	256.83	258.06	0.000846	1.20	17.23	12.64	0.27
valle	41	Max WS	A TR_200 4H	19.71	255.16	257.95	256.82	258.03	0.000877	1.21	16.89	12.48	0.28
valle	41	Max WS	A TR_200 6H	19.23	255.16	257.90	256.80	257.97	0.000923	1.21	16.36	12.22	0.29
valle	41	Max WS	A TR_200 8H	18.80	255.16	257.86	256.79	257.93	0.000949	1.21	16.00	12.05	0.29
valle	41	Max WS	A TR_200 12H	18.03	255.16	257.79	256.76	257.87	0.000992	1.21	15.36	11.75	0.29
valle	41	Max WS	A TR_30 1H	13.22	255.16	257.43	256.55	257.49	0.001210	1.14	11.84	10.07	0.31
valle	41	Max WS	A TR_30 2H	17.02	255.16	257.69	256.72	257.76	0.001105	1.22	14.33	11.25	0.31
valle	41	Max WS	A TR_30 3H	17.46	255.16	257.72	256.73	257.80	0.001073	1.22	14.69	11.43	0.30
valle	41	Max WS	A TR_30 4H	17.27	255.16	257.71	256.73	257.79	0.001074	1.22	14.59	11.38	0.30
valle	41	Max WS	A TR_30 6H	15.51	255.16	257.60	256.65	257.67	0.001101	1.18	13.52	10.87	0.30
valle	41	Max WS	A TR_30 8H	13.58	255.16	257.47	256.56	257.54	0.001143	1.13	12.27	10.28	0.30
valle	41	Max WS	A TR_30 12H	10.82	255.16	257.26	256.43	257.32	0.001243	1.06	10.30	9.33	0.31
valle	40	Max WS	A TR_200 1H	19.04	255.33	257.90	256.61	257.94	0.000570	0.94	22.09	13.68	0.23
valle	40	Max WS	A TR_200 2H	20.00	255.33	258.01	256.64	258.05	0.000518	0.92	23.70	13.95	0.22
valle	40	Max WS	A TR_200 3H	20.02	255.33	258.01	256.64	258.05	0.000518	0.92	23.71	13.95	0.22
valle	40	Max WS	A TR_200 4H	19.75	255.33	257.98	256.63	258.02	0.000533	0.93	23.23	13.87	0.22
valle	40	Max WS	A TR_200 6H	19.26	255.33	257.92	256.61	257.97	0.000556	0.93	22.47	13.75	0.22
valle	40	Max WS	A TR_200 8H	18.83	255.33	257.89	256.60	257.93	0.000567	0.93	21.95	13.66	0.23
valle	40	Max WS	A TR_200 12H	18.05	255.33	257.82	256.58	257.86	0.000585	0.93	21.04	13.51	0.23
valle	40	Max WS	A TR_30 1H	13.24	255.33	257.44	256.39	257.48	0.000653	0.89	16.13	12.67	0.24
valle	40	Max WS	A TR_30 2H	17.04	255.33	257.71	256.54	257.75	0.000636	0.94	19.59	13.27	0.24
valle	40	Max WS	A TR_30 3H	17.48	255.33	257.75	256.56	257.79	0.000623	0.95	20.10	13.35	0.23
valle	40	Max WS	A TR_30 4H	17.29	255.33	257.74	256.55	257.78	0.000622	0.94	19.96	13.33	0.23
valle	40	Max WS	A TR_30 6H	15.52	255.33	257.62	256.48	257.66	0.000622	0.91	18.45	13.07	0.23
valle	40	Max WS	A TR_30 8H	13.59	255.33	257.49	256.41	257.53	0.000623	0.88	16.73	12.78	0.23
valle	40	Max WS	A TR_30 12H	10.82	255.33	257.28	256.29	257.31	0.000628	0.83	14.10	12.31	0.23
valle	39	Max WS	A TR_200 1H	19.35	255.16	257.83	256.63	257.88	0.000715	1.02	19.91	12.73	0.25
valle	39	Max WS	A TR_200 2H	20.49	255.16	257.95	256.67	258.00	0.000656	1.00	21.49	13.53	0.24
valle	39	Max WS	A TR_200 3H	20.52	255.16	257.95	256.67	258.00	0.000656	1.00	21.51	13.53	0.24
valle	39	Max WS	A TR_200 4H	20.18	255.16	257.92	256.66	257.97	0.000674	1.01	21.03	13.35	0.25
valle	39	Max WS	A TR_200 6H	19.60	255.16	257.86	256.63	257.91	0.000701	1.01	20.28	12.99	0.25
valle	39	Max WS	A TR_200 8H	19.12	255.16	257.82	256.62	257.87	0.000712	1.01	19.78	12.70	0.25
valle	39	Max WS	A TR_200 12H	18.27	255.16	257.75	256.59	257.81	0.000735	1.01	18.92	12.54	0.25
valle	39	Max WS	A TR_30 1H	13.35	255.16	257.37	256.40	257.42	0.000850	0.97	14.31	11.66	0.27
valle	39	Max WS	A TR_30 2H	17.22	255.16	257.64	256.55	257.69	0.000811	1.03	17.50	12.28	0.26
valle	39	Max WS	A TR_30 3H	17.68	255.16	257.68	256.57	257.73	0.000791	1.03	18.00	12.37	0.26
valle	39	Max WS	A TR_30 4H	17.48	255.16	257.67	256.57	257.72	0.000789	1.02	17.86	12.35	0.26
valle	39	Max WS	A TR_30 6H	15.69	255.16	257.56	256.50	257.61	0.000796	0.99	16.47	12.08	0.26
valle	39	Max WS	A TR_30 8H	13.74	255.16	257.42	256.42	257.47	0.000807	0.96	14.89	11.77	0.26
valle	39	Max WS	A TR_30 12H	10.94	255.16	257.21	256.29	257.25	0.000833	0.90	12.46	11.29	0.26
valle	38	Max WS	A TR_200 1H	19.71	254.92	257.74	256.60	257.80	0.001021	1.10	17.92	12.26	0.29
valle	38	Max WS	A TR_200 2H	21.05	254.92	257.87	256.65	257.93	0.000929	1.08	19.51	12.79	0.28
valle	38	Max WS	A TR_200 3H	21.08	254.92	257.87	256.65	257.93	0.000930	1.08	19.52	12.79	0.28
valle	38	Max WS	A TR_200 4H	20.68	254.92	257.83	256.63	257.89	0.000958	1.09	19.03	12.63	0.28
valle	38	Max WS	A TR_200 6H	20.00	254.92	257.77	256.61	257.83	0.000997	1.09	18.28	12.38	0.29
valle	38	Max WS	A TR_200 8H	19.46	254.92	257.73	256.59	257.79	0.001016	1.09	17.78	12.21	0.29
valle	38	Max WS	A TR_200 12H	18.53	254.92	257.66	256.56	257.72	0.001052	1.10	16.92	11.91	0.29
valle	38	Max WS	A TR_30 1H	13.47	254.92	257.26	256.35	257.32	0.001244	1.08	12.50	10.25	0.31
valle	38	Max WS	A TR_30 2H	17.43	254.92	257.53	256.51	257.59	0.001186	1.13	15.45	11.38	0.31
valle	38	Max WS	A TR_30 3H	17.91	254.92	257.57	256.54	257.64	0.001151	1.12	15.94	11.56	0.31
valle	38	Max WS	A TR_30 4H	17.71	254.92	257.56	256.53	257.63	0.001150	1.12	15.81	11.52	0.30
valle	38	Max WS	A TR_30 6H	15.89	254.92	257.45	256.46	257.51	0.001163	1.09	14.52	11.04	0.30
valle	38	Max WS	A TR_30 8H	13.91	254.92	257.31	256.37	257.37	0.001182	1.07	13.06	10.47	0.30
valle	38	Max WS	A TR_30 12H	11.08	254.92	257.10	256.24	257.15	0.001203	1.01	10.94	9.59	0.30
valle	37	Max WS	A TR_200 1H	19.83	254.83	257.74	256.29	257.78	0.000346	0.80	24.86	18.45	0.18
valle	37	Max WS	A TR_200 2H	21.24	254.83	257.87	256.33	257.90	0.000321	0.80	26.49	19.25	0.18
valle	37	Max WS	A TR_200 3H	21.28	254.83	257.87	256.33	257.91	0.000321	0.80	26.50	19.25	0.18
valle	37	Max WS	A TR_200 4H	20.86	254.83	257.84	256.32	257.87	0.000328	0.80	26.02	19.02	0.18
valle	37	Max WS	A TR_200 6H	20.14	254.83	257.78	256.30	257.81	0.000338	0.80	25.26	18.65	0.18
valle	37	Max WS	A TR_200 8H	19.57	254.83	257.74	256.28	257.77	0.000342	0.79	24.75	18.40	0.18
valle	37	Max WS	A TR_200 12H	18.62	254.83	257.66	256.25	257.70	0.000350	0.78	23.85	17.96	0.18
valle	37	Max WS	A TR_30 1H	13.51	254.83	257.26	256.06	257.29	0.000413	0.72	18.72	15.48	0.19
valle	37	Max WS	A TR_30 2H	17.50	254.83	257.54	256.21	257.57	0.000390	0.79	22.24	17.19	0.19
valle	37	Max WS	A TR_30 3H	17.99	254.83	257.58	256.23	257.61	0.000380	0.79	22.79	17.45	0.19
valle	37	Max WS	A TR_30 4H	17.78	254.83	257.57	256.22	257.60	0.000379	0.79	22.65	17.39	0.19
valle	37	Max WS	A TR_30 6H	15.95	254.83	257.45	256.16	257.48	0.000382	0.75	21.18	16.67	0.19
valle	37	Max WS	A TR_30 8H	13.97	254.83	257.32	256.08	257.34	0.000389	0.72	19.44	15.83	0.19
valle	37	Max WS	A TR_30 12H	11.12	254.83	257.10	255.96	257.13	0.000408	0.67	16.72	14.51	0.19
valle	36.5			Bridge									
valle	36	Max WS	A TR_200 1H	19.83	254.83	257.73	256.35	257.77	0.000438	0.86	23.17	18.67	0.20
valle	36	Max WS	A TR_200 2H	21.24	254.83	257.85	256.39	257.88	0.000409	0.86	24.65	19.53	0.20
valle	36	Max WS	A TR_200 3H	21.28	254.83	257.85	256.39	257.89	0.000410	0.86	24.66	19.53	0.20
valle	36	Max WS	A TR_200 4H	20.86	254.83	257.81	256.38	257.85	0.000417	0.86	24.24	19.29	0.20
valle	36	Max WS	A TR_200 6H	20.14	254.83	257.76	256.35	257.80	0.000426	0.85	23.58	18.90	0.20
valle	36	Max WS	A TR_200 8H	19.57	254.83	257.72	256.34	257.76	0.000433	0.85	23.07	18.61	0.20
valle	36	Max WS	A TR_200 12H	18.62	254.83	257.65	256.30	257.69	0.000448	0.84	22.17	18.09	0.20
valle	36	Max WS	A TR_30 1H	13.51	254.83	257.25	256.11	257.28	0.000541	0.79	17.06	15.12	0.21

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)	
valle	36	Max WS	A TR_30 2H	17.49	254.83	257.52	256.27	257.56	0.000509	0.85	20.55	17.15	0.21
valle	36	Max WS	A TR_30 3H	17.98	254.83	257.57	256.28	257.60	0.000492	0.85	21.10	17.47	0.21
valle	36	Max WS	A TR_30 4H	17.78	254.83	257.56	256.28	257.59	0.000492	0.85	20.96	17.39	0.21
valle	36	Max WS	A TR_30 6H	15.95	254.83	257.44	256.21	257.47	0.000504	0.82	19.49	16.54	0.21
valle	36	Max WS	A TR_30 8H	13.97	254.83	257.30	256.13	257.34	0.000515	0.79	17.76	15.54	0.21
valle	36	Max WS	A TR_30 12H	11.12	254.83	257.09	256.01	257.12	0.000516	0.73	15.17	14.09	0.21
valle	35	Max WS	A TR_200 1H	19.87	254.83	257.71	256.41	257.76	0.000640	1.00	20.75	12.49	0.24
valle	35	Max WS	A TR_200 2H	21.31	254.83	257.83	256.45	257.88	0.000613	1.01	22.24	13.26	0.24
valle	35	Max WS	A TR_200 3H	21.34	254.83	257.83	256.45	257.88	0.000615	1.01	22.25	13.26	0.24
valle	35	Max WS	A TR_200 4H	20.91	254.83	257.80	256.44	257.85	0.000621	1.01	21.81	13.04	0.24
valle	35	Max WS	A TR_200 6H	20.18	254.83	257.74	256.42	257.79	0.000628	1.00	21.14	12.70	0.24
valle	35	Max WS	A TR_200 8H	19.61	254.83	257.70	256.40	257.75	0.000632	1.00	20.64	12.44	0.24
valle	35	Max WS	A TR_200 12H	18.65	254.83	257.63	256.36	257.68	0.000641	0.99	19.78	12.05	0.24
valle	35	Max WS	A TR_30 1H	13.52	254.83	257.23	256.17	257.27	0.000709	0.93	15.16	10.98	0.24
valle	35	Max WS	A TR_30 2H	17.52	254.83	257.51	256.33	257.56	0.000705	1.00	18.26	11.57	0.25
valle	35	Max WS	A TR_30 3H	18.01	254.83	257.55	256.34	257.60	0.000691	1.00	18.77	11.77	0.25
valle	35	Max WS	A TR_30 4H	17.81	254.83	257.54	256.33	257.59	0.000688	1.00	18.64	11.69	0.25
valle	35	Max WS	A TR_30 6H	15.97	254.83	257.42	256.27	257.47	0.000681	0.96	17.32	11.39	0.24
valle	35	Max WS	A TR_30 8H	13.99	254.83	257.29	256.19	257.33	0.000677	0.92	15.79	11.10	0.24
valle	35	Max WS	A TR_30 12H	11.14	254.83	257.08	256.07	257.11	0.000669	0.85	13.49	10.65	0.23
valle	34.9			Lat Struct									
valle	34	Max WS	A TR_200 1H	20.03	254.76	257.68	256.37	257.73	0.000802	1.03	19.49	12.30	0.26
valle	34	Max WS	A TR_200 2H	21.56	254.76	257.79	256.42	257.85	0.000749	1.03	20.97	12.84	0.25
valle	34	Max WS	A TR_200 3H	21.60	254.76	257.80	256.43	257.85	0.000751	1.03	20.98	12.84	0.25
valle	34	Max WS	A TR_200 4H	21.14	254.76	257.76	256.41	257.82	0.000764	1.03	20.55	12.69	0.26
valle	34	Max WS	A TR_200 6H	20.36	254.76	257.71	256.38	257.76	0.000781	1.02	19.89	12.44	0.26
valle	34	Max WS	A TR_200 8H	19.76	254.76	257.67	256.36	257.72	0.000793	1.02	19.39	12.26	0.26
valle	34	Max WS	A TR_200 12H	18.77	254.76	257.60	256.32	257.65	0.000810	1.01	18.52	11.98	0.26
valle	34	Max WS	A TR_30 1H	13.58	254.76	257.19	256.11	257.24	0.000904	0.97	13.95	10.42	0.27
valle	34	Max WS	A TR_30 2H	17.61	254.76	257.46	256.28	257.52	0.000903	1.04	16.96	11.47	0.27
valle	34	Max WS	A TR_30 3H	18.11	254.76	257.51	256.29	257.56	0.000881	1.04	17.48	11.64	0.27
valle	34	Max WS	A TR_30 4H	17.91	254.76	257.50	256.29	257.55	0.000878	1.03	17.36	11.60	0.27
valle	34	Max WS	A TR_30 6H	16.06	254.76	257.38	256.21	257.43	0.000871	1.00	16.04	11.16	0.27
valle	34	Max WS	A TR_30 8H	14.07	254.76	257.25	256.13	257.29	0.000865	0.97	14.56	10.65	0.26
valle	34	Max WS	A TR_30 12H	11.20	254.76	257.04	256.00	257.08	0.000843	0.90	12.40	9.84	0.26
valle	33.9			Lat Struct									
valle	33	Max WS	A TR_200 1H	20.23	254.72	257.63	256.39	257.69	0.000741	1.04	19.80	13.17	0.25
valle	33	Max WS	A TR_200 2H	21.88	254.72	257.76	256.44	257.81	0.000629	1.01	23.70	15.73	0.24
valle	33	Max WS	A TR_200 3H	21.92	254.72	257.76	256.45	257.81	0.000631	1.01	23.71	15.73	0.24
valle	33	Max WS	A TR_200 4H	21.42	254.72	257.72	256.43	257.77	0.000646	1.01	23.15	15.63	0.24
valle	33	Max WS	A TR_200 6H	20.59	254.72	257.67	256.40	257.72	0.000719	1.04	20.23	13.31	0.25
valle	33	Max WS	A TR_200 8H	19.95	254.72	257.62	256.38	257.68	0.000732	1.03	19.70	13.14	0.25
valle	33	Max WS	A TR_200 12H	18.91	254.72	257.55	256.34	257.61	0.000763	1.03	18.75	12.84	0.26
valle	33	Max WS	A TR_30 1H	13.64	254.72	257.14	256.12	257.19	0.000974	0.99	13.78	10.96	0.28
valle	33	Max WS	A TR_30 2H	17.73	254.72	257.41	256.30	257.47	0.000903	1.05	16.99	12.30	0.27
valle	33	Max WS	A TR_30 3H	18.24	254.72	257.46	256.31	257.51	0.000867	1.05	17.57	12.46	0.27
valle	33	Max WS	A TR_30 4H	18.03	254.72	257.45	256.31	257.50	0.000867	1.05	17.44	12.42	0.27
valle	33	Max WS	A TR_30 6H	16.17	254.72	257.33	256.23	257.39	0.000885	1.02	16.03	11.95	0.27
valle	33	Max WS	A TR_30 8H	14.17	254.72	257.20	256.15	257.25	0.000914	0.98	14.45	11.26	0.27
valle	33	Max WS	A TR_30 12H	11.27	254.72	256.98	256.01	257.03	0.000947	0.93	12.18	10.24	0.27
valle	32.9			Lat Struct									
valle	32	Max WS	A TR_200 1H	20.70	254.71	257.52	256.37	257.58	0.000952	1.08	19.15	12.94	0.28
valle	32	Max WS	A TR_200 2H	22.61	254.71	257.65	256.43	257.71	0.000885	1.09	20.82	13.26	0.28
valle	32	Max WS	A TR_200 3H	22.66	254.71	257.65	256.43	257.71	0.000888	1.09	20.82	13.26	0.28
valle	32	Max WS	A TR_200 4H	22.08	254.71	257.61	256.41	257.67	0.000903	1.09	20.35	13.17	0.28
valle	32	Max WS	A TR_200 6H	21.12	254.71	257.56	256.38	257.62	0.000922	1.08	19.62	13.03	0.28
valle	32	Max WS	A TR_200 8H	20.40	254.71	257.52	256.36	257.57	0.000937	1.07	19.07	12.92	0.28
valle	32	Max WS	A TR_200 12H	19.26	254.71	257.44	256.31	257.50	0.000978	1.06	18.08	12.72	0.29
valle	32	Max WS	A TR_30 1H	13.81	254.71	256.99	256.10	257.05	0.001260	1.08	12.81	10.71	0.31
valle	32	Max WS	A TR_30 2H	18.00	254.71	257.28	256.27	257.34	0.001171	1.12	16.06	11.99	0.31
valle	32	Max WS	A TR_30 3H	18.54	254.71	257.33	256.29	257.39	0.001120	1.11	16.70	12.22	0.30
valle	32	Max WS	A TR_30 4H	18.32	254.71	257.32	256.28	257.38	0.001117	1.11	16.57	12.17	0.30
valle	32	Max WS	A TR_30 6H	16.42	254.71	257.20	256.21	257.26	0.001139	1.08	15.16	11.64	0.30
valle	32	Max WS	A TR_30 8H	14.40	254.71	257.06	256.13	257.11	0.001178	1.06	13.55	11.01	0.31
valle	32	Max WS	A TR_30 12H	11.45	254.71	256.84	255.99	256.90	0.001211	1.01	11.30	10.06	0.31
valle	31	Max WS	A TR_200 1H	21.44	254.58	257.39	255.98	257.44	0.000516	1.04	22.08	15.40	0.22
valle	31	Max WS	A TR_200 2H	23.79	254.58	257.52	256.06	257.57	0.000518	1.08	23.56	15.90	0.22
valle	31	Max WS	A TR_200 3H	23.84	254.58	257.52	256.06	257.57	0.000521	1.08	23.55	15.90	0.23
valle	31	Max WS	A TR_200 4H	23.13	254.58	257.48	256.04	257.54	0.000518	1.07	23.16	15.76	0.22
valle	31	Max WS	A TR_200 6H	21.95	254.58	257.43	256.00	257.48	0.000508	1.04	22.53	15.55	0.22
valle	31	Max WS	A TR_200 8H	21.10	254.58	257.39	255.97	257.44	0.000502	1.02	22.06	15.39	0.22
valle	31	Max WS	A TR_200 12H	19.80	254.58	257.31	255.93	257.35	0.000504	1.00	21.16	15.09	0.22
valle	31	Max WS	A TR_30 1H	14.08	254.58	256.80	255.69	256.85	0.000671	0.96	15.45	13.16	0.24
valle	31	Max WS	A TR_30 2H	18.43	254.58	257.11	255.87	257.16	0.000619	1.04	18.92	14.33	0.24
valle	31	Max WS	A TR_30 3H	19.01	254.58	257.17	255.90	257.22	0.000587	1.03	19.63	14.57	0.23
valle	31	Max WS	A TR_30 4H	18.79	254.58	257.16	255.88	257.21	0.000584	1.02	19.52	14.54	0.23
valle	31	Max WS	A TR_30 6H	16.83	254.58	257.04	255.81	257.08	0.000591	0.99	18.11	14.06	0.23
valle	31	Max WS	A TR_30 8H	14.76	254.58	256.89	255.72	256.93	0.000615	0.95	16.40	13.49	0.23
valle	31	Max WS	A TR_30 12H	11.72	254.58	256.66	255.57	256.70	0.000637	0.88	13.90	12.64	0.23
valle	30.5			Bridge									
valle	30	Max WS	A TR_200 1H	21.43	254.56	257.39	255.99	257.44	0.000486	0.95	22.61	15.17	0.21

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)	
valle	30	Max WS	A TR_200 2H	23.79	254.56	257.52	256.06	257.57	0.000485	0.99	24.09	15.51	0.22
valle	30	Max WS	A TR_200 3H	23.87	254.56	257.52	256.06	257.57	0.000488	0.99	24.08	15.51	0.22
valle	30	Max WS	A TR_200 4H	23.14	254.56	257.49	256.04	257.54	0.000485	0.98	23.68	15.42	0.22
valle	30	Max WS	A TR_200 6H	21.95	254.56	257.43	256.00	257.48	0.000477	0.95	23.06	15.27	0.21
valle	30	Max WS	A TR_200 8H	21.10	254.56	257.39	255.98	257.44	0.000472	0.93	22.59	15.17	0.21
valle	30	Max WS	A TR_200 12H	19.80	254.56	257.31	255.93	257.35	0.000476	0.91	21.69	14.96	0.21
valle	30	Max WS	A TR_30 1H	14.08	254.56	256.81	255.74	256.85	0.000661	0.88	15.99	12.53	0.24
valle	30	Max WS	A TR_30 2H	18.44	254.56	257.11	255.89	257.16	0.000593	0.95	19.46	14.31	0.23
valle	30	Max WS	A TR_30 3H	19.01	254.56	257.18	255.91	257.22	0.000560	0.94	20.16	14.54	0.23
valle	30	Max WS	A TR_30 4H	18.79	254.56	257.17	255.90	257.21	0.000557	0.94	20.05	14.50	0.22
valle	30	Max WS	A TR_30 6H	16.83	254.56	257.04	255.84	257.08	0.000570	0.90	18.64	14.03	0.22
valle	30	Max WS	A TR_30 8H	14.76	254.56	256.89	255.76	256.93	0.000603	0.87	16.94	13.46	0.23
valle	30	Max WS	A TR_30 12H	11.72	254.56	256.67	255.64	256.70	0.000618	0.81	14.45	11.65	0.23
valle	29	Max WS	A TR_200 1H	21.92	254.25	257.28	255.86	257.34	0.001007	1.08	20.21	13.80	0.29
valle	29	Max WS	A TR_200 2H	24.60	254.25	257.41	255.96	257.47	0.000994	1.11	22.08	14.48	0.29
valle	29	Max WS	A TR_200 3H	24.65	254.25	257.41	255.96	257.47	0.001000	1.12	22.07	14.47	0.29
valle	29	Max WS	A TR_200 4H	23.89	254.25	257.37	255.94	257.44	0.001008	1.11	21.56	14.37	0.29
valle	29	Max WS	A TR_200 6H	22.55	254.25	257.32	255.89	257.38	0.001003	1.08	20.80	14.21	0.29
valle	29	Max WS	A TR_200 8H	21.60	254.25	257.28	255.85	257.34	0.000975	1.07	20.23	13.82	0.28
valle	29	Max WS	A TR_200 12H	20.18	254.25	257.20	255.80	257.26	0.000954	1.06	19.13	13.02	0.28
valle	29	Max WS	A TR_30 1H	14.29	254.25	256.66	255.55	256.72	0.001060	1.08	13.29	9.32	0.29
valle	29	Max WS	A TR_30 2H	18.75	254.25	256.97	255.74	257.03	0.001099	1.15	16.37	10.78	0.30
valle	29	Max WS	A TR_30 3H	19.35	254.25	257.04	255.77	257.10	0.001078	1.13	17.16	11.47	0.29
valle	29	Max WS	A TR_30 4H	19.12	254.25	257.03	255.76	257.09	0.001065	1.12	17.05	11.38	0.29
valle	29	Max WS	A TR_30 6H	17.11	254.25	256.90	255.67	256.96	0.000982	1.09	15.69	10.18	0.28
valle	29	Max WS	A TR_30 8H	15.02	254.25	256.75	255.58	256.81	0.000989	1.06	14.17	9.64	0.28
valle	29	Max WS	A TR_30 12H	11.91	254.25	256.53	255.43	256.58	0.000928	0.98	12.16	8.89	0.27
valle	28	Max WS	A TR_200 1H	21.83	254.27	257.24	255.88	257.30	0.000734	1.07	20.80	13.86	0.25
valle	28	Max WS	A TR_200 2H	24.57	254.27	257.37	255.97	257.43	0.000734	1.12	22.67	14.52	0.26
valle	28	Max WS	A TR_200 3H	24.63	254.27	257.37	255.97	257.43	0.000739	1.12	22.65	14.52	0.26
valle	28	Max WS	A TR_200 4H	23.89	254.27	257.33	255.95	257.40	0.000738	1.11	22.15	14.44	0.26
valle	28	Max WS	A TR_200 6H	22.55	254.27	257.28	255.90	257.34	0.000723	1.08	21.40	14.20	0.25
valle	28	Max WS	A TR_200 8H	21.60	254.27	257.24	255.87	257.30	0.000714	1.06	20.85	13.89	0.25
valle	28	Max WS	A TR_200 12H	20.18	254.27	257.16	255.82	257.21	0.000728	1.04	19.74	13.23	0.25
valle	28	Max WS	A TR_30 1H	14.29	254.27	256.60	255.58	256.66	0.001091	1.06	13.42	10.04	0.29
valle	28	Max WS	A TR_30 2H	18.74	254.27	256.92	255.77	256.98	0.001035	1.12	16.75	11.29	0.29
valle	28	Max WS	A TR_30 3H	19.34	254.27	256.99	255.79	257.05	0.000943	1.10	17.61	11.89	0.28
valle	28	Max WS	A TR_30 4H	19.11	254.27	256.98	255.78	257.04	0.000937	1.09	17.51	11.82	0.28
valle	28	Max WS	A TR_30 6H	17.11	254.27	256.86	255.70	256.91	0.000966	1.06	16.08	10.96	0.28
valle	28	Max WS	A TR_30 8H	15.02	254.27	256.70	255.62	256.76	0.000995	1.04	14.42	10.40	0.28
valle	28	Max WS	A TR_30 12H	11.90	254.27	256.49	255.47	256.53	0.000963	0.97	12.27	9.61	0.27
valle	27.5	Max WS	A TR_200 1H	21.83	254.21	257.23	255.86	257.29	0.000809	1.08	20.34	12.31	0.26
valle	27.5	Max WS	A TR_200 2H	24.57	254.21	257.36	255.95	257.42	0.000801	1.12	22.02	13.52	0.26
valle	27.5	Max WS	A TR_200 3H	24.62	254.21	257.36	255.96	257.42	0.000806	1.13	22.00	13.51	0.27
valle	27.5	Max WS	A TR_200 4H	23.89	254.21	257.32	255.93	257.39	0.000808	1.11	21.55	13.12	0.26
valle	27.5	Max WS	A TR_200 6H	22.55	254.21	257.27	255.88	257.33	0.000794	1.08	20.88	12.58	0.26
valle	27.5	Max WS	A TR_200 8H	21.60	254.21	257.23	255.85	257.29	0.000786	1.06	20.39	12.32	0.26
valle	27.5	Max WS	A TR_200 12H	20.18	254.21	257.15	255.80	257.21	0.000794	1.04	19.39	12.03	0.26
valle	27.5	Max WS	A TR_30 1H	14.29	254.21	256.59	255.56	256.65	0.001140	1.08	13.21	9.92	0.30
valle	27.5	Max WS	A TR_30 2H	18.74	254.21	256.90	255.74	256.97	0.001090	1.14	16.51	11.14	0.30
valle	27.5	Max WS	A TR_30 3H	19.35	254.21	256.98	255.77	257.04	0.001012	1.11	17.36	11.43	0.29
valle	27.5	Max WS	A TR_30 4H	19.11	254.21	256.97	255.75	257.03	0.001004	1.11	17.26	11.40	0.29
valle	27.5	Max WS	A TR_30 6H	17.10	254.21	256.84	255.67	256.90	0.001010	1.08	15.85	10.91	0.29
valle	27.5	Max WS	A TR_30 8H	15.02	254.21	256.69	255.59	256.74	0.001040	1.06	14.20	10.30	0.29
valle	27.5	Max WS	A TR_30 12H	11.90	254.21	256.47	255.44	256.52	0.000999	0.98	12.08	9.46	0.28
valle01	27	Max WS	A TR_200 1H	24.94	254.15	257.23	255.95	257.31	0.001087	1.24	20.24	12.29	0.30
valle01	27	Max WS	A TR_200 2H	31.03	254.15	257.36	256.15	257.46	0.001344	1.42	21.87	12.75	0.34
valle01	27	Max WS	A TR_200 3H	30.90	254.15	257.36	256.14	257.46	0.001336	1.42	21.86	12.74	0.34
valle01	27	Max WS	A TR_200 4H	29.39	254.15	257.32	256.09	257.42	0.001280	1.38	21.43	12.62	0.33
valle01	27	Max WS	A TR_200 6H	27.03	254.15	257.27	256.01	257.36	0.001183	1.30	20.77	12.44	0.32
valle01	27	Max WS	A TR_200 8H	25.40	254.15	257.23	255.96	257.31	0.001119	1.25	20.29	12.31	0.31
valle01	27	Max WS	A TR_200 12H	23.08	254.15	257.15	255.88	257.22	0.001071	1.20	19.28	12.02	0.30
valle01	27	Max WS	A TR_30 1H	15.29	254.15	256.59	255.57	256.66	0.001327	1.16	13.13	9.79	0.32
valle01	27	Max WS	A TR_30 2H	19.97	254.15	256.90	255.76	256.98	0.001270	1.22	16.41	11.10	0.32
valle01	27	Max WS	A TR_30 3H	21.31	254.15	256.98	255.81	257.06	0.001268	1.23	17.26	11.42	0.32
valle01	27	Max WS	A TR_30 4H	21.28	254.15	256.97	255.81	257.05	0.001284	1.24	17.16	11.39	0.32
valle01	27	Max WS	A TR_30 6H	19.12	254.15	256.84	255.73	256.92	0.001295	1.21	15.75	10.85	0.32
valle01	27	Max WS	A TR_30 8H	16.82	254.15	256.69	255.64	256.76	0.001331	1.19	14.12	10.20	0.32
valle01	27	Max WS	A TR_30 12H	13.48	254.15	256.47	255.49	256.54	0.001293	1.12	12.03	9.30	0.31
valle01	26.99	Max WS	A TR_200 1H	24.95	254.15	257.23	255.94	257.31	0.001087	1.24	20.24	12.29	0.30
valle01	26.99	Max WS	A TR_200 2H	31.03	254.15	257.36	256.15	257.46	0.001345	1.42	21.87	12.74	0.34
valle01	26.99	Max WS	A TR_200 3H	30.90	254.15	257.36	256.14	257.46	0.001336	1.42	21.86	12.74	0.34
valle01	26.99	Max WS	A TR_200 4H	29.39	254.15	257.32	256.09	257.42	0.001281	1.38	21.42	12.62	0.33
valle01	26.99	Max WS	A TR_200 6H	27.03	254.15	257.27	256.01	257.36	0.001184	1.31	20.77	12.44	0.32
valle01	26.99	Max WS	A TR_200 8H	25.40	254.15	257.23	255.96	257.31	0.001119	1.25	20.28	12.30	0.31
valle01	26.99	Max WS	A TR_200 12H	23.08	254.15	257.15	255.88	257.22	0.001071	1.20	19.28	12.02	0.30
valle01	26.99	Max WS	A TR_30 1H	15.29	254.15	256.59	255.57	256.66	0.001327	1.16	13.13	9.79	0.32
valle01	26.99	Max WS	A TR_30 2H	19.96	254.15	256.90	255.76	256.98	0.001269	1.22	16.41	11.10	0.32
valle01	26.99	Max WS	A TR_30 3H	21.32	254.15	256.98	255.81	257.06	0.001270	1.24	17.26	11.42	0.32
valle01	26.99	Max WS	A TR_30 4H	21.28	254.15	256.97	255.81	257.05	0.001284	1.24	17.16	11.39	0.32
valle01	26.99	Max WS	A TR_30 6H	19.12	254.15	256.84	255.73	256.92	0.001295	1.21	15.75	10.85	0.32
valle01	26.99	Max WS	A TR_30 8H	16.82	254.15	256.69	255.63	256.76	0.001332	1.19	14.12	10.20	0.32
valle01	26.99	Max WS	A TR_30 12H	13.48	254.15	256.47	255.49	256.54	0.001293	1.12	12.03	9.30	0.31
valle01	26.98			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)	
valle01	26.97			Lat Struct									
valle01	26.7	Max WS	A TR_200 1H	24.94	254.09	257.19	255.84	257.25	0.000783	1.14	22.33	14.66	0.26
valle01	26.7	Max WS	A TR_200 2H	31.02	254.09	257.31	256.03	257.40	0.000973	1.32	24.27	17.14	0.30
valle01	26.7	Max WS	A TR_200 3H	30.89	254.09	257.31	256.02	257.40	0.000967	1.32	24.25	17.14	0.30
valle01	26.7	Max WS	A TR_200 4H	29.38	254.09	257.28	255.97	257.36	0.000926	1.28	23.71	16.49	0.29
valle01	26.7	Max WS	A TR_200 6H	27.03	254.09	257.23	255.90	257.30	0.000855	1.21	22.94	15.46	0.28
valle01	26.7	Max WS	A TR_200 8H	25.40	254.09	257.19	255.86	257.26	0.000807	1.16	22.38	14.73	0.27
valle01	26.7	Max WS	A TR_200 12H	23.08	254.09	257.11	255.77	257.17	0.000774	1.10	21.24	13.70	0.26
valle01	26.7	Max WS	A TR_30 1H	15.28	254.09	256.53	255.47	256.59	0.001082	1.06	14.35	10.77	0.29
valle01	26.7	Max WS	A TR_30 2H	19.96	254.09	256.85	255.66	256.92	0.000945	1.11	17.99	11.83	0.28
valle01	26.7	Max WS	A TR_30 3H	21.29	254.09	256.93	255.71	256.99	0.000932	1.13	18.90	12.18	0.28
valle01	26.7	Max WS	A TR_30 4H	21.26	254.09	256.92	255.71	256.99	0.000945	1.14	18.79	12.12	0.28
valle01	26.7	Max WS	A TR_30 6H	19.12	254.09	256.79	255.63	256.85	0.000978	1.11	17.27	11.63	0.29
valle01	26.7	Max WS	A TR_30 8H	16.82	254.09	256.63	255.54	256.69	0.001051	1.09	15.45	11.13	0.29
valle01	26.7	Max WS	A TR_30 12H	13.48	254.09	256.42	255.39	256.47	0.001064	1.02	13.15	10.30	0.29
valle01	26	Max WS	A TR_200 1H	24.93	253.96	257.13	255.41	257.18	0.000409	1.06	23.62	16.08	0.21
valle01	26	Max WS	A TR_200 2H	31.01	253.96	257.23	255.57	257.31	0.000558	1.27	24.54	16.63	0.24
valle01	26	Max WS	A TR_200 3H	30.87	253.96	257.23	255.56	257.31	0.000553	1.27	24.54	16.63	0.24
valle01	26	Max WS	A TR_200 4H	29.37	253.96	257.20	255.52	257.28	0.000517	1.22	24.29	16.49	0.24
valle01	26	Max WS	A TR_200 6H	27.03	253.96	257.16	255.46	257.23	0.000460	1.14	23.93	16.27	0.22
valle01	26	Max WS	A TR_200 8H	25.39	253.96	257.13	255.42	257.19	0.000423	1.08	23.64	16.09	0.21
valle01	26	Max WS	A TR_200 12H	23.08	253.96	257.05	255.36	257.10	0.000385	1.01	22.96	15.67	0.20
valle01	26	Max WS	A TR_30 1H	15.28	253.96	256.46	255.11	256.50	0.000407	0.88	17.60	12.37	0.20
valle01	26	Max WS	A TR_30 2H	19.96	253.96	256.79	255.27	256.84	0.000415	0.98	20.56	14.19	0.21
valle01	26	Max WS	A TR_30 3H	21.27	253.96	256.86	255.31	256.92	0.000422	1.01	21.25	14.62	0.21
valle01	26	Max WS	A TR_30 4H	21.24	253.96	256.85	255.31	256.91	0.000427	1.01	21.16	14.57	0.21
valle01	26	Max WS	A TR_30 6H	19.11	253.96	256.72	255.24	256.77	0.000418	0.96	19.99	13.85	0.20
valle01	26	Max WS	A TR_30 8H	16.81	253.96	256.56	255.17	256.60	0.000416	0.92	18.52	12.94	0.20
valle01	26	Max WS	A TR_30 12H	13.47	253.96	256.35	255.04	256.38	0.000384	0.82	16.59	11.75	0.19
valle01	25.5			Bridge									
valle01	25	Max WS	A TR_200 1H	24.93	253.97	257.05	255.35	257.11	0.000402	1.06	23.64	15.89	0.21
valle01	25	Max WS	A TR_200 2H	30.98	253.97	257.10	255.49	257.19	0.000583	1.29	24.10	16.14	0.25
valle01	25	Max WS	A TR_200 3H	30.72	253.97	257.10	255.48	257.19	0.000572	1.28	24.11	16.15	0.25
valle01	25	Max WS	A TR_200 4H	29.34	253.97	257.09	255.45	257.17	0.000530	1.23	23.99	16.08	0.24
valle01	25	Max WS	A TR_200 6H	27.02	253.97	257.07	255.40	257.13	0.000462	1.14	23.80	15.98	0.22
valle01	25	Max WS	A TR_200 8H	25.39	253.97	257.05	255.35	257.11	0.000418	1.08	23.63	15.89	0.21
valle01	25	Max WS	A TR_200 12H	23.08	253.97	256.99	255.30	257.04	0.000372	1.00	23.10	15.61	0.20
valle01	25	Max WS	A TR_30 1H	15.28	253.97	256.46	255.06	256.50	0.000352	0.84	18.32	13.08	0.19
valle01	25	Max WS	A TR_30 2H	19.96	253.97	256.75	255.21	256.80	0.000385	0.96	20.94	14.47	0.20
valle01	25	Max WS	A TR_30 3H	21.26	253.97	256.82	255.25	256.87	0.000397	0.99	21.56	14.79	0.20
valle01	25	Max WS	A TR_30 4H	21.23	253.97	256.81	255.25	256.86	0.000401	0.99	21.47	14.75	0.21
valle01	25	Max WS	A TR_30 6H	19.11	253.97	256.70	255.18	256.74	0.000383	0.94	20.43	14.20	0.20
valle01	25	Max WS	A TR_30 8H	16.81	253.97	256.56	255.11	256.60	0.000361	0.88	19.25	13.57	0.19
valle01	25	Max WS	A TR_30 12H	13.47	253.97	256.35	255.00	256.38	0.000330	0.78	17.31	12.54	0.18
valle01	24.98			Lat Struct									
valle01	24.97			Lat Struct									
valle01	24	Max WS	A TR_200 1H	25.00	253.92	257.04	255.48	257.10	0.000522	1.08	24.59	13.58	0.22
valle01	24	Max WS	A TR_200 2H	31.10	253.92	257.09	255.66	257.18	0.000749	1.31	25.27	14.59	0.27
valle01	24	Max WS	A TR_200 3H	30.84	253.92	257.10	255.66	257.18	0.000736	1.30	25.29	14.65	0.27
valle01	24	Max WS	A TR_200 4H	29.44	253.92	257.08	255.61	257.16	0.000683	1.25	25.11	14.06	0.26
valle01	24	Max WS	A TR_200 6H	27.11	253.92	257.06	255.55	257.13	0.000597	1.16	24.83	13.66	0.24
valle01	24	Max WS	A TR_200 8H	25.46	253.92	257.04	255.50	257.10	0.000542	1.10	24.58	13.58	0.23
valle01	24	Max WS	A TR_200 12H	23.13	253.92	256.99	255.42	257.04	0.000489	1.03	23.79	13.34	0.22
valle01	24	Max WS	A TR_30 1H	15.31	253.92	256.45	255.14	256.49	0.000542	0.91	17.20	11.29	0.22
valle01	24	Max WS	A TR_30 2H	20.00	253.92	256.74	255.32	256.79	0.000544	1.01	20.67	12.41	0.22
valle01	24	Max WS	A TR_30 3H	21.30	253.92	256.81	255.36	256.86	0.000550	1.03	21.52	12.67	0.23
valle01	24	Max WS	A TR_30 4H	21.27	253.92	256.80	255.36	256.86	0.000557	1.04	21.40	12.63	0.23
valle01	24	Max WS	A TR_30 6H	19.15	253.92	256.69	255.28	256.73	0.000550	0.99	19.96	12.19	0.22
valle01	24	Max WS	A TR_30 8H	16.84	253.92	256.55	255.20	256.60	0.000539	0.94	18.39	11.68	0.22
valle01	24	Max WS	A TR_30 12H	13.50	253.92	256.34	255.07	256.38	0.000526	0.86	15.96	10.86	0.21
valle01	23	Max WS	A TR_200 1H	24.18	253.42	256.98	255.20	257.02	0.000405	0.90	28.21	17.72	0.19
valle01	23	Max WS	A TR_200 2H	29.63	253.42	257.00	255.37	257.06	0.000587	1.09	28.60	17.72	0.23
valle01	23	Max WS	A TR_200 3H	29.69	253.42	257.00	255.37	257.06	0.000588	1.09	28.62	17.72	0.23
valle01	23	Max WS	A TR_200 4H	28.22	253.42	257.00	255.32	257.05	0.000534	1.04	28.55	17.72	0.22
valle01	23	Max WS	A TR_200 6H	26.03	253.42	256.99	255.26	257.04	0.000461	0.96	28.40	17.72	0.21
valle01	23	Max WS	A TR_200 8H	24.71	253.42	256.98	255.21	257.02	0.000425	0.92	28.15	17.72	0.20
valle01	23	Max WS	A TR_200 12H	23.45	253.42	256.92	255.17	256.96	0.000421	0.90	27.22	14.73	0.20
valle01	23	Max WS	A TR_30 1H	15.72	253.42	256.37	254.89	256.40	0.000465	0.82	19.70	12.47	0.20
valle01	23	Max WS	A TR_30 2H	20.57	253.42	256.66	255.07	256.70	0.000492	0.90	23.55	13.73	0.21
valle01	23	Max WS	A TR_30 3H	21.89	253.42	256.73	255.12	256.77	0.000501	0.93	24.51	14.02	0.21
valle01	23	Max WS	A TR_30 4H	21.82	253.42	256.72	255.12	256.76	0.000506	0.93	24.36	13.97	0.21
valle01	23	Max WS	A TR_30 6H	19.65	253.42	256.60	255.04	256.64	0.000492	0.89	22.76	13.48	0.21
valle01	23	Max WS	A TR_30 8H	17.29	253.42	256.47	254.95	256.51	0.000472	0.85	21.03	12.92	0.20
valle01	23	Max WS	A TR_30 12H	13.86	253.42	256.26	254.80	256.29	0.000438	0.77	18.37	12.00	0.19
valle01	22.6666	Max WS	A TR_200 1H	21.44	253.54	256.99	255.15	257.01	0.000278	0.73	31.69	23.29	0.16
valle01	22.6666	Max WS	A TR_200 2H	25.62	253.54	257.02	255.29	257.06	0.000374	0.86	32.45	23.29	0.19
valle01	22.6666	Max WS	A TR_200 3H	25.64	253.54	257.02	255.29	257.06	0.000374	0.86	32.47	23.29	0.19
valle01	22.6666	Max WS	A TR_200 4H	24.39	253.54	257.02	255.25	257.05	0.000342	0.82	32.34	23.29	0.18
valle01	22.6666	Max WS	A TR_200 6H	22.80	253.54	257.00	255.20	257.03	0.000306	0.77	32.04	23.29	0.17
valle01	22.6666	Max WS	A TR_200 8H	22.29	253.54	256.98	255.18	257.01	0.000302	0.76	31.61	23.29	0.17
valle01	22.6666	Max WS	A TR_200 12H	23.00	253.54	256.91	255.21	256.95	0.000367	0.82	30.04	19.43	0.18
valle01	22.6666	Max WS	A TR_30 1H	15.81	253.54	256.35	254.95	256.38	0.000492	0.81	20.21	15.81	0.20

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)	
valle01	22.6666	Max WS	A TR_30 2H	20.69	253.54	256.65	255.13	256.68	0.000481	0.87	25.15	17.35	0.21
valle01	22.6666	Max WS	A TR_30 3H	22.02	253.54	256.72	255.17	256.75	0.000482	0.88	26.37	17.80	0.21
valle01	22.6666	Max WS	A TR_30 4H	21.94	253.54	256.71	255.17	256.74	0.000487	0.89	26.18	17.72	0.21
valle01	22.6666	Max WS	A TR_30 6H	19.76	253.54	256.59	255.10	256.62	0.000488	0.86	24.14	17.08	0.21
valle01	22.6666	Max WS	A TR_30 8H	17.39	253.54	256.46	255.01	256.49	0.000484	0.83	21.93	16.48	0.20
valle01	22.6666	Max WS	A TR_30 12H	13.94	253.54	256.24	254.88	256.27	0.000476	0.77	18.52	15.22	0.20
valle01	22	Max WS	A TR_200 1H	19.70	253.77	256.97	255.17	257.00	0.000283	0.69	29.80	33.69	0.16
valle01	22	Max WS	A TR_200 2H	20.63	253.77	257.02	255.20	257.04	0.000283	0.70	31.33	34.43	0.16
valle01	22	Max WS	A TR_200 3H	20.50	253.77	257.02	255.19	257.04	0.000279	0.69	31.38	34.43	0.16
valle01	22	Max WS	A TR_200 4H	20.05	253.77	257.01	255.18	257.04	0.000271	0.68	31.10	34.43	0.16
valle01	22	Max WS	A TR_200 6H	19.72	253.77	256.99	255.17	257.02	0.000272	0.68	30.49	34.14	0.16
valle01	22	Max WS	A TR_200 8H	20.82	253.77	256.97	255.21	256.99	0.000320	0.73	29.56	33.53	0.17
valle01	22	Max WS	A TR_200 12H	23.28	253.77	256.88	255.28	256.91	0.000477	0.86	27.09	16.10	0.21
valle01	22	Max WS	A TR_30 1H	15.98	253.77	256.30	255.03	256.34	0.000618	0.85	18.85	13.08	0.23
valle01	22	Max WS	A TR_30 2H	20.94	253.77	256.60	255.21	256.64	0.000629	0.91	22.90	14.38	0.23
valle01	22	Max WS	A TR_30 3H	22.27	253.77	256.67	255.25	256.71	0.000634	0.93	23.90	14.69	0.23
valle01	22	Max WS	A TR_30 4H	22.17	253.77	256.66	255.25	256.70	0.000640	0.93	23.74	14.64	0.23
valle01	22	Max WS	A TR_30 6H	19.97	253.77	256.54	255.18	256.58	0.000633	0.91	22.06	14.12	0.23
valle01	22	Max WS	A TR_30 8H	17.58	253.77	256.41	255.09	256.45	0.000616	0.87	20.26	13.55	0.23
valle01	22	Max WS	A TR_30 12H	14.09	253.77	256.20	254.96	256.23	0.000588	0.81	17.49	12.61	0.22
valle01	21	Max WS	A TR_200 1H	19.51	253.74	256.95	255.09	256.98	0.000254	0.69	28.85	21.93	0.15
valle01	21	Max WS	A TR_200 2H	18.30	253.74	257.01	255.04	257.03	0.000203	0.63	30.10	22.05	0.14
valle01	21	Max WS	A TR_200 3H	18.26	253.74	257.01	255.04	257.03	0.000201	0.63	30.12	22.06	0.14
valle01	21	Max WS	A TR_200 4H	18.10	253.74	257.00	255.04	257.02	0.000201	0.63	29.92	22.04	0.14
valle01	21	Max WS	A TR_200 6H	18.71	253.74	256.98	255.05	257.00	0.000224	0.66	29.41	21.99	0.15
valle01	21	Max WS	A TR_200 8H	20.83	253.74	256.94	255.13	256.97	0.000296	0.74	28.60	21.91	0.17
valle01	21	Max WS	A TR_200 12H	23.57	253.74	256.83	255.22	256.88	0.000455	0.89	26.69	15.68	0.20
valle01	21	Max WS	A TR_30 1H	16.12	253.74	256.25	254.96	256.29	0.000615	0.87	18.57	12.55	0.23
valle01	21	Max WS	A TR_30 2H	21.19	253.74	256.54	255.14	256.59	0.000636	0.94	22.43	13.78	0.24
valle01	21	Max WS	A TR_30 3H	22.53	253.74	256.61	255.19	256.66	0.000628	0.96	23.40	14.13	0.24
valle01	21	Max WS	A TR_30 4H	22.40	253.74	256.60	255.18	256.65	0.000635	0.96	23.23	14.07	0.24
valle01	21	Max WS	A TR_30 6H	20.17	253.74	256.48	255.11	256.53	0.000640	0.93	21.63	13.50	0.24
valle01	21	Max WS	A TR_30 8H	17.77	253.74	256.36	255.02	256.40	0.000619	0.89	19.92	12.98	0.23
valle01	21	Max WS	A TR_30 12H	14.24	253.74	256.15	254.89	256.18	0.000580	0.82	17.30	12.13	0.22
valle01	20.4444	Max WS	A TR_200 1H	19.45	253.69	256.95	255.06	256.97	0.000194	0.68	31.93	19.58	0.14
valle01	20.4444	Max WS	A TR_200 2H	18.06	253.69	257.01	255.02	257.03	0.000152	0.61	33.10	20.21	0.12
valle01	20.4444	Max WS	A TR_200 3H	17.94	253.69	257.01	255.01	257.03	0.000150	0.61	33.13	20.23	0.12
valle01	20.4444	Max WS	A TR_200 4H	17.90	253.69	257.00	255.01	257.02	0.000152	0.61	32.93	20.12	0.12
valle01	20.4444	Max WS	A TR_200 6H	18.65	253.69	256.98	255.04	257.00	0.000171	0.64	32.45	19.87	0.13
valle01	20.4444	Max WS	A TR_200 8H	20.82	253.69	256.94	255.11	256.96	0.000226	0.73	31.69	19.45	0.15
valle01	20.4444	Max WS	A TR_200 12H	23.57	253.69	256.83	255.20	256.86	0.000348	0.88	29.59	18.80	0.19
valle01	20.4444	Max WS	A TR_30 1H	16.11	253.69	256.23	254.95	256.27	0.000500	0.86	19.34	15.56	0.21
valle01	20.4444	Max WS	A TR_30 2H	21.19	253.69	256.53	255.11	256.57	0.000480	0.94	24.20	17.23	0.21
valle01	20.4444	Max WS	A TR_30 3H	22.52	253.69	256.60	255.16	256.64	0.000475	0.96	25.43	17.60	0.21
valle01	20.4444	Max WS	A TR_30 4H	22.40	253.69	256.59	255.16	256.63	0.000481	0.96	25.22	17.53	0.21
valle01	20.4444	Max WS	A TR_30 6H	20.17	253.69	256.47	255.09	256.51	0.000487	0.93	23.19	16.92	0.21
valle01	20.4444	Max WS	A TR_30 8H	17.76	253.69	256.34	255.01	256.38	0.000487	0.89	21.05	16.25	0.21
valle01	20.4444	Max WS	A TR_30 12H	14.24	253.69	256.13	254.88	256.16	0.000486	0.81	17.84	13.95	0.21
valle01	20.3333	Max WS	A TR_200 1H	19.45	253.69	256.95	255.06	256.97	0.000194	0.68	31.93	19.58	0.14
valle01	20.3333	Max WS	A TR_200 2H	18.06	253.69	257.01	255.02	257.03	0.000152	0.61	33.10	20.21	0.12
valle01	20.3333	Max WS	A TR_200 3H	17.94	253.69	257.01	255.01	257.03	0.000150	0.61	33.13	20.23	0.12
valle01	20.3333	Max WS	A TR_200 4H	17.90	253.69	257.00	255.01	257.02	0.000152	0.61	32.93	20.12	0.12
valle01	20.3333	Max WS	A TR_200 6H	18.65	253.69	256.98	255.04	257.00	0.000171	0.64	32.45	19.86	0.13
valle01	20.3333	Max WS	A TR_200 8H	20.82	253.69	256.94	255.11	256.96	0.000226	0.73	31.69	19.45	0.15
valle01	20.3333	Max WS	A TR_200 12H	23.57	253.69	256.83	255.20	256.86	0.000348	0.88	29.59	18.80	0.19
valle01	20.3333	Max WS	A TR_30 1H	16.11	253.69	256.23	254.95	256.27	0.000500	0.86	19.34	15.56	0.21
valle01	20.3333	Max WS	A TR_30 2H	21.19	253.69	256.53	255.12	256.57	0.000480	0.94	24.20	17.23	0.21
valle01	20.3333	Max WS	A TR_30 3H	22.53	253.69	256.60	255.16	256.64	0.000476	0.96	25.42	17.59	0.21
valle01	20.3333	Max WS	A TR_30 4H	22.40	253.69	256.59	255.16	256.63	0.000481	0.96	25.22	17.53	0.21
valle01	20.3333	Max WS	A TR_30 6H	20.18	253.69	256.47	255.09	256.51	0.000487	0.93	23.19	16.92	0.21
valle01	20.3333	Max WS	A TR_30 8H	17.76	253.69	256.34	255.01	256.38	0.000488	0.89	21.05	16.25	0.21
valle01	20.3333	Max WS	A TR_30 12H	14.24	253.69	256.13	254.88	256.16	0.000485	0.81	17.84	13.95	0.21

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)
valle	56.19	Max WS	A TR_200 1H	25.93	0.01	25.90	0.01		7.65	0.01	0.01	260.63	260.89	260.45	260.69	260.64
valle	56.19	Max WS	A TR_200 2H	32.67	1.51	29.71	1.51		8.85	0.24	0.21	260.63	261.16	260.46	260.93	260.87
valle	56.19	Max WS	A TR_200 3H	32.54	1.47	29.63	1.47		8.84	0.24	0.21	260.63	261.15	260.46	260.92	260.87
valle	56.19	Max WS	A TR_200 4H	31.50	1.22	29.09	1.22		8.73	0.21	0.19	260.63	261.10	260.45	260.89	260.84
valle	56.19	Max WS	A TR_200 6H	26.30	0.08	26.15	0.08		7.79	0.04	0.03	260.63	260.85	260.37	260.71	260.66
valle	56.19	Max WS	A TR_200 8H	22.66	0.00	22.66	0.00					260.63	260.57	260.15	260.45	260.40
valle	56.19	Max WS	A TR_200 12H	18.09	0.00	18.09	0.00					260.63	260.18	259.83	260.09	260.04
valle	56.19	Max WS	A TR_30 1H	12.11	0.00	12.11	0.00					260.63	259.54	259.26	259.41	259.37
valle	56.19	Max WS	A TR_30 2H	15.81	0.00	15.82	0.00					260.63	259.98	259.68	259.90	259.87
valle	56.19	Max WS	A TR_30 3H	16.18	0.00	16.18	0.00					260.63	260.02	259.71	259.94	259.90
valle	56.19	Max WS	A TR_30 4H	15.46	0.00	15.46	0.00					260.63	259.96	259.67	259.89	259.85
valle	56.19	Max WS	A TR_30 6H	13.30	0.00	13.32	0.00					260.63	259.65	259.35	259.57	259.54
valle	56.19	Max WS	A TR_30 8H	11.64	0.00	11.64	0.00					260.63	259.47	259.19	259.39	259.36
valle	56.19	Max WS	A TR_30 12H	9.29	0.00	9.29	0.00					260.63	259.14	258.85	259.05	259.01
valle	56.18	Max WS	A TR_200 1H	25.93	0.01	25.90	0.01		7.58	0.01	0.01	260.63	260.89	260.45	260.69	260.64
valle	56.18	Max WS	A TR_200 2H	32.67	1.48	29.71	1.48		8.84	0.24	0.21	260.63	261.16	260.46	260.93	260.87
valle	56.18	Max WS	A TR_200 3H	32.54	1.44	29.63	1.44		8.82	0.24	0.21	260.63	261.15	260.46	260.92	260.87
valle	56.18	Max WS	A TR_200 4H	31.50	1.19	29.09	1.19		8.71	0.21	0.18	260.63	261.10	260.45	260.89	260.84
valle	56.18	Max WS	A TR_200 6H	26.30	0.07	26.15	0.07		7.74	0.03	0.03	260.63	260.85	260.37	260.71	260.66
valle	56.18	Max WS	A TR_200 8H	22.66	0.00	22.66	0.00					260.63	260.57	260.15	260.45	260.40
valle	56.18	Max WS	A TR_200 12H	18.09	0.00	18.09	0.00					260.63	260.18	259.83	260.09	260.04
valle	56.18	Max WS	A TR_30 1H	12.11	0.00	12.11	0.00					260.63	259.54	259.26	259.41	259.37
valle	56.18	Max WS	A TR_30 2H	15.81	0.00	15.82	0.00					260.63	259.98	259.68	259.90	259.87
valle	56.18	Max WS	A TR_30 3H	16.18	0.00	16.18	0.00					260.63	260.02	259.71	259.94	259.90
valle	56.18	Max WS	A TR_30 4H	15.46	0.00	15.46	0.00					260.63	259.96	259.67	259.89	259.85
valle	56.18	Max WS	A TR_30 6H	13.30	0.00	13.32	0.00					260.63	259.65	259.35	259.57	259.54
valle	56.18	Max WS	A TR_30 8H	11.64	0.00	11.64	0.00					260.63	259.47	259.19	259.39	259.36
valle	56.18	Max WS	A TR_30 12H	9.29	0.00	9.29	0.00					260.63	259.14	258.85	259.05	259.01
valle	54.9	Max WS	A TR_200 1H	25.90	0.00	25.90	0.00					259.83	259.96	259.89	259.96	259.80
valle	54.9	Max WS	A TR_200 2H	29.71	0.01	29.68	0.01		2.07	0.04	0.02	259.83	260.07	259.99	260.07	259.87
valle	54.9	Max WS	A TR_200 3H	29.62	0.01	29.61	0.01		1.99	0.04	0.02	259.83	260.07	259.99	260.06	259.87
valle	54.9	Max WS	A TR_200 4H	29.08	0.00	29.08	0.00		1.49	0.03	0.01	259.83	260.06	259.98	260.05	259.86
valle	54.9	Max WS	A TR_200 6H	26.15	0.00	26.15	0.00					259.83	259.97	259.90	259.97	259.80
valle	54.9	Max WS	A TR_200 8H	22.65	0.00	22.66	0.00					259.83	259.87	259.81	259.86	259.73
valle	54.9	Max WS	A TR_200 12H	18.09	0.00	18.09	0.00					259.83	259.73	259.68	259.72	259.62
valle	54.9	Max WS	A TR_30 1H	12.11	0.00	12.10	0.00					259.83	259.28	259.24	259.26	259.18
valle	54.9	Max WS	A TR_30 2H	15.80	0.00	15.80	0.00					259.83	259.63	259.60	259.63	259.54
valle	54.9	Max WS	A TR_30 3H	16.18	0.00	16.18	0.00					259.83	259.66	259.62	259.65	259.56
valle	54.9	Max WS	A TR_30 4H	15.46	0.00	15.46	0.00					259.83	259.63	259.59	259.62	259.54
valle	54.9	Max WS	A TR_30 6H	13.30	0.00	13.30	0.00					259.83	259.40	259.36	259.38	259.30
valle	54.9	Max WS	A TR_30 8H	11.64	0.00	11.63	0.00					259.83	259.27	259.23	259.25	259.18
valle	54.9	Max WS	A TR_30 12H	9.29	0.00	9.29	0.00					259.83	259.02	258.99	259.01	258.94
valle	54.8	Max WS	A TR_200 1H	25.90	0.00	25.90	0.00					260.13	259.96	259.89	259.96	259.80
valle	54.8	Max WS	A TR_200 2H	29.71	0.00	29.68	0.00					260.13	260.07	259.99	260.07	259.87
valle	54.8	Max WS	A TR_200 3H	29.62	0.00	29.61	0.00					260.13	260.07	259.99	260.06	259.87
valle	54.8	Max WS	A TR_200 4H	29.08	0.00	29.08	0.00					260.13	260.06	259.98	260.05	259.86
valle	54.8	Max WS	A TR_200 6H	26.15	0.00	26.15	0.00					260.13	259.97	259.90	259.97	259.80
valle	54.8	Max WS	A TR_200 8H	22.65	0.00	22.66	0.00					260.13	259.87	259.81	259.86	259.73
valle	54.8	Max WS	A TR_200 12H	18.09	0.00	18.09	0.00					260.13	259.73	259.68	259.72	259.62
valle	54.8	Max WS	A TR_30 1H	12.11	0.00	12.10	0.00					260.13	259.28	259.24	259.26	259.18
valle	54.8	Max WS	A TR_30 2H	15.80	0.00	15.80	0.00					260.13	259.63	259.60	259.63	259.54
valle	54.8	Max WS	A TR_30 3H	16.18	0.00	16.18	0.00					260.13	259.66	259.62	259.65	259.56
valle	54.8	Max WS	A TR_30 4H	15.46	0.00	15.46	0.00					260.13	259.63	259.59	259.62	259.54
valle	54.8	Max WS	A TR_30 6H	13.30	0.00	13.30	0.00					260.13	259.40	259.36	259.38	259.30
valle	54.8	Max WS	A TR_30 8H	11.64	0.00	11.63	0.00					260.13	259.27	259.23	259.25	259.18
valle	54.8	Max WS	A TR_30 12H	9.29	0.00	9.29	0.00					260.13	259.02	258.99	259.01	258.94
valle	52.98	Max WS	A TR_200 1H	25.90	1.24	24.66	1.24		29.16	0.16	0.08	259.30	259.80	259.66	259.56	259.46
valle	52.98	Max WS	A TR_200 2H	29.68	1.41	28.27	1.41		31.59	0.17	0.08	259.30	259.88	259.71	259.59	259.47
valle	52.98	Max WS	A TR_200 3H	29.61	1.40	27.63	1.40		31.47	0.17	0.08	259.30	259.88	259.71	259.59	259.47
valle	52.98	Max WS	A TR_200 4H	29.08	1.39	27.70	1.39		31.28	0.17	0.08	259.30	259.87	259.70	259.59	259.47
valle	52.98	Max WS	A TR_200 6H	26.15	1.10	25.04	1.10		27.32	0.16	0.07	259.30	259.80	259.65	259.56	259.46
valle	52.98	Max WS	A TR_200 8H	22.66	0.82	21.83	0.82		23.48	0.14	0.07	259.30	259.71	259.60	259.52	259.44
valle	52.98	Max WS	A TR_200 12H	18.09	0.41	17.67	0.41		17.46	0.11	0.05	259.30	259.60	259.52	259.46	259.41
valle	52.98	Max WS	A TR_30 1H	12.04	0.00	11.99	0.00					259.30	259.24	259.17	259.08	259.04
valle	52.98	Max WS	A TR_30 2H	15.59	0.11	15.44	0.11		10.27	0.06	0.03	259.30	259.53	259.46	259.41	259.36
valle	52.98	Max WS	A TR_30 3H	16.13	0.19	15.93	0.19		12.94	0.08	0.04	259.30	259.55	259.48	259.42	259.38
valle	52.98	Max WS	A TR_30 4H	15.45	0.12	15.32	0.12		10.54	0.06	0.03	259.30	259.53	259.46	259.41	259.36
valle	52.98	Max WS	A TR_30 6H	13.30	0.00	13.29	0.00					259.30	259.37	259.31	259.24	259.20
valle	52.98	Max WS	A TR_30 8H	11.62	0.00	11.61	0.00					259.30	259.22	259.15	259.07	259.02
valle	52.98	Max WS	A TR_30 12H	9.29	0.00	9.29	0.00					259.30	259.01	258.94	258.83	258.78
valle	52.9	Max WS	A TR_200 1H	25.90	0.00	24.66	0.00					259.73	259.80	259.66	259.56	259.46
valle	52.9	Max WS	A TR_200 2H	29.68	0.00	28.27	0.00					259.73	259.88	259.71	259.59	259.47
valle	52.9	Max WS	A TR_200 3H	29.61	0.00	27.63	0.00					259.73	259.88	259.71	259.59	259.47
valle	52.9	Max WS	A TR_200 4H	29.08	0.00	27.70	0.00					259.73	259.87	259.70	259.59	259.47
valle	52.9	Max WS	A TR_200 6H	26.15	0.00	25.04	0.00					259.73	259.80	259.65	259.56	259.46
valle	52.9	Max WS	A TR_200 8H	22.66	0.00	21.83	0.00					259.73	259.71	259.60	259.52	259.44
valle	52.9	Max WS	A TR_200 12H	18.09	0.00	17.67	0.00					259.73	259.60	259.52	259.46	259.41
valle	52.9	Max WS	A TR_30 1H	12.04	0.00	11.99	0.00					259.73	259.24	259.17	259.08	259.04
valle	52.9	Max WS	A TR_30 2H	15.59	0.00	15.44	0.00					259.73	259.53	259.46	259.41	259.36
valle	52.9	Max WS	A TR_30 3H	16.13	0.00	15.93	0.00					259.73	259.55	259.48	259.42	259.38
valle	52.9	Max WS	A TR_30 4H	15.45	0.00	15.32	0.00					259.73	259.53	259.46	259.41	259.36
valle	52.9	Max WS	A TR_30 6H	13.30	0.00	13.29	0.00					259.73	259.37	259.31	259.24	259.20
valle	52.9	Max WS	A TR_30 8H	11.62	0.00	11.61	0.00					259.73	259.22	259.15	259.07	259.02
valle	52.9	Max WS	A TR_30 12H	9.29	0.00	9.29	0.00					259.73	259.01	258.94	258.83	258.78
valle	51.98	Max WS	A TR_200 1H	24.66	7.96	16.32	7.96		151.69	0.16	0.09	259.30	259.56	259.46	259.45	259.41
valle	51.98	Max WS	A TR_200 2H	28.27	10.40	16.75	10.40		151.69	0.17	0.11	259.30	259.59	259.47	259.49	259.45
valle	51.98	Max WS	A TR_200 3H	27.63	10.31	16.75	10.31		151.69	0.17	0.11	259.30	259.59	259.47	259.49	259.45
valle	51.98	Max WS	A TR_200 4H	27.70	10.08	16.71	10.08		151.69	0.17	0.11	259.30	259.59	259.47	259.48	259.44
valle	51.98	Max WS	A TR_200 6H	25.04	8.08	16.40	8.08		151.69	0.16	0.09	259.30	259.56	259.46	259.45	259.42
valle	51.98	Max WS	A TR_200 8H	21.83	5.80	16.00	5.80		143.98	0.14	0.08	259.30	259.52	259.44	259.42	259.38
valle	51.98	Max WS	A TR_200 12H	17.67	2.56	15.51	2.56		98.40	0.11	0.06	259.30	259.46	259.41	259.36	259.32
valle	51.98	Max WS	A TR_30 1H	11.99	0.00	12.21	0.00					259.30	259.08	259.04	258.91	258.86
valle	51.98	Max WS	A TR_30 2H	15.44	0.53	15.28	0.53		49.10	0.06	0.03	259.30	259.41	259.36	259.29	259.25
valle	51.98	Max WS	A TR_30 3H	15.93	1.04	15.30	1.04		65.85	0.08	0.04	259.30	259.42	259.38	259.31	259.27
valle	51.98	Max WS	A TR_30 4H	15.32	0.59	15.13	0.59		51.43	0.06	0.03	259.30	259.41	259.36	259.29	259.25
valle	51.98	Max WS	A TR_30 6H	13.29	0.00	13.62	0.00					259.30	259.24	259.20	259.10	259.06
valle	51.98	Max WS	A TR_30 8H	11.61	0.00	11.90	0.00					259.30	259.07	259.02	258.90	258.85
valle	51.98	Max WS	A TR_30 12H	9.29	0.00	9.50	0.00					259.30	258.83	258.78	258.62	258.57
valle	51.9	Max WS	A TR_200 1H	24.66	1.05	16.32	1.05		44.31	0.11	0.05	259.30	259.56	259.46	259.45	259.41
valle	51.9	Max WS	A TR_200 2H	28.27	1.97	16.75	1.97		54.22	0.15	0.07	259.30	259.59	259.47	259.49	259.45
valle	51.9	Max WS	A TR_200 3H	27.63	1.94	16.75	1.94		53.87	0.15	0.07	259.30	259.59	259.47	259.49	259.45
valle	51.9	Max WS	A TR_200 4H	27.70	1.84	16.71	1.84		52.96	0.14	0.07	259.30	259.59	259.47	259.48	259.44
valle	51.9	Max WS	A TR_200 6H	25.04	1.19	16.40	1.19		45.92	0.12	0.06	259.30	259.56	259.46	259.45	259.42
valle	51.9	Max WS	A TR_200 8H	21.83	0.55	16.00	0.55		35.36	0.08	0.04	259.30	259.52	259.44	259.42	259.38
valle	51.9	Max WS	A TR_200 12H	17.67	0.02	15.51	0.02		9.46	0.02	0.01	259.30	259.46	259.41	259.36	259.32
valle	51.9	Max WS	A TR_30 1H	11.99	0.00	12.21	0.00					259.30	259.08	259.04	258.91	258.86
valle	51.9	Max WS	A TR_30 2H	15.44	0.00	15.28	0.00					259.30	259.41	259.36	259.29	259.25
valle	51.9	Max WS	A TR_30 3H	15.93	0.00	15.30	0.00					259.30	259.42	259.38	259.31	259.27
valle	51.9	Max WS	A TR_30 4H	15.32	0.00	15.13	0.00					259.30	259.41	259.36	259.29	259.25

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)
valle	51.9	Max WS	A TR_30 6H	13.29	0.00	13.62	0.00					259.30	259.24	259.20	259.10	259.06
valle	51.9	Max WS	A TR_30 8H	11.61	0.00	11.90	0.00					259.30	259.07	259.02	258.90	258.85
valle	51.9	Max WS	A TR_30 12H	9.29	0.00	9.50	0.00					259.30	258.83	258.78	258.62	258.57
valle	49.98	Max WS	A TR_200 1H	16.32	0.04	16.72	0.04		13.47	0.03	0.01	258.90	259.09	259.04	258.82	258.76
valle	49.98	Max WS	A TR_200 2H	16.67	0.27	16.27	0.27		28.34	0.06	0.03	258.90	259.11	259.06	258.87	258.82
valle	49.98	Max WS	A TR_200 3H	16.66	0.27	16.25	0.27		28.43	0.06	0.03	258.90	259.11	259.06	258.87	258.82
valle	49.98	Max WS	A TR_200 4H	16.70	0.19	16.45	0.19		24.78	0.05	0.02	258.90	259.11	259.06	258.86	258.80
valle	49.98	Max WS	A TR_200 6H	16.38	0.07	16.61	0.07		16.87	0.03	0.02	258.90	259.10	259.05	258.83	258.77
valle	49.98	Max WS	A TR_200 8H	15.99	0.01	16.59	0.01		8.00	0.02	0.01	258.90	259.08	259.03	258.81	258.74
valle	49.98	Max WS	A TR_200 12H	15.50	0.00	16.32	0.00					258.90	259.04	258.99	258.75	258.68
valle	49.98	Max WS	A TR_30 1H	12.17	0.00	12.55	0.00					258.90	258.75	258.70	258.32	258.25
valle	49.98	Max WS	A TR_30 2H	15.18	0.00	15.77	0.00					258.90	258.99	258.94	258.66	258.59
valle	49.98	Max WS	A TR_30 3H	15.24	0.00	16.00	0.00					258.90	259.01	258.96	258.70	258.63
valle	49.98	Max WS	A TR_30 4H	15.10	0.00	15.83	0.00					258.90	259.00	258.95	258.68	258.61
valle	49.98	Max WS	A TR_30 6H	13.61	0.00	14.24	0.00					258.90	258.87	258.82	258.50	258.43
valle	49.98	Max WS	A TR_30 8H	11.89	0.00	12.44	0.00					258.90	258.74	258.70	258.33	258.26
valle	49.98	Max WS	A TR_30 12H	9.50	0.00	9.93	0.00					258.90	258.54	258.50	258.07	257.99
valle	49.9	Max WS	A TR_200 1H	16.32	0.74	16.72	0.74		85.60	0.06	0.03	258.87	259.09	259.04	258.82	258.76
valle	49.9	Max WS	A TR_200 2H	16.67	1.94	16.27	1.94		125.04	0.09	0.04	258.87	259.11	259.06	258.87	258.82
valle	49.9	Max WS	A TR_200 3H	16.66	1.95	16.25	1.95		125.15	0.09	0.04	258.87	259.11	259.06	258.87	258.82
valle	49.9	Max WS	A TR_200 4H	16.70	1.60	16.45	1.60		116.35	0.08	0.04	258.87	259.11	259.06	258.86	258.80
valle	49.9	Max WS	A TR_200 6H	16.38	0.95	16.61	0.95		94.14	0.06	0.03	258.87	259.10	259.05	258.83	258.77
valle	49.9	Max WS	A TR_200 8H	15.99	0.44	16.59	0.44		69.12	0.05	0.02	258.87	259.08	259.03	258.81	258.74
valle	49.9	Max WS	A TR_200 12H	15.50	0.00	16.32	0.00		4.63	0.00	0.00	258.87	259.04	258.99	258.75	258.68
valle	49.9	Max WS	A TR_30 1H	12.17	0.00	12.55	0.00					258.87	258.75	258.70	258.32	258.25
valle	49.9	Max WS	A TR_30 2H	15.18	0.00	15.77	0.00					258.87	258.99	258.94	258.66	258.59
valle	49.9	Max WS	A TR_30 3H	15.24	0.00	16.00	0.00					258.87	259.01	258.96	258.70	258.63
valle	49.9	Max WS	A TR_30 4H	15.10	0.00	15.83	0.00					258.87	259.00	258.95	258.68	258.61
valle	49.9	Max WS	A TR_30 6H	13.61	0.00	14.24	0.00					258.87	258.87	258.82	258.50	258.43
valle	49.9	Max WS	A TR_30 8H	11.89	0.00	12.44	0.00					258.87	258.74	258.70	258.33	258.26
valle	49.9	Max WS	A TR_30 12H	9.50	0.00	9.93	0.00					258.87	258.54	258.50	258.07	257.99
valle	34.9	Max WS	A TR_200 1H	19.87	0.00	20.03	0.00					257.83	257.76	257.71	257.73	257.68
valle	34.9	Max WS	A TR_200 2H	21.31	0.00	21.56	0.00					257.83	257.88	257.83	257.85	257.79
valle	34.9	Max WS	A TR_200 3H	21.34	0.00	21.60	0.00					257.83	257.88	257.83	257.85	257.80
valle	34.9	Max WS	A TR_200 4H	20.91	0.00	21.14	0.00					257.83	257.85	257.80	257.82	257.76
valle	34.9	Max WS	A TR_200 6H	20.18	0.00	20.36	0.00					257.83	257.79	257.74	257.76	257.71
valle	34.9	Max WS	A TR_200 8H	19.61	0.00	19.76	0.00					257.83	257.75	257.70	257.72	257.67
valle	34.9	Max WS	A TR_200 12H	18.65	0.00	18.77	0.00					257.83	257.68	257.63	257.65	257.60
valle	34.9	Max WS	A TR_30 1H	13.52	0.00	13.58	0.00					257.83	257.27	257.23	257.24	257.19
valle	34.9	Max WS	A TR_30 2H	17.52	0.00	17.61	0.00					257.83	257.56	257.51	257.52	257.46
valle	34.9	Max WS	A TR_30 3H	18.01	0.00	18.11	0.00					257.83	257.60	257.55	257.56	257.51
valle	34.9	Max WS	A TR_30 4H	17.81	0.00	17.91	0.00					257.83	257.59	257.54	257.55	257.50
valle	34.9	Max WS	A TR_30 6H	15.97	0.00	16.06	0.00					257.83	257.47	257.42	257.43	257.38
valle	34.9	Max WS	A TR_30 8H	13.99	0.00	14.07	0.00					257.83	257.33	257.29	257.29	257.25
valle	34.9	Max WS	A TR_30 12H	11.14	0.00	11.20	0.00					257.83	257.11	257.08	257.08	257.04
valle	33.9	Max WS	A TR_200 1H	20.03	0.00	20.23	0.00					257.83	257.73	257.68	257.69	257.63
valle	33.9	Max WS	A TR_200 2H	21.56	0.00	21.88	0.00					257.83	257.85	257.79	257.81	257.76
valle	33.9	Max WS	A TR_200 3H	21.60	0.00	21.92	0.00					257.83	257.85	257.79	257.81	257.76
valle	33.9	Max WS	A TR_200 4H	21.14	0.00	21.42	0.00					257.83	257.82	257.76	257.77	257.72
valle	33.9	Max WS	A TR_200 6H	20.36	0.00	20.59	0.00					257.83	257.76	257.71	257.72	257.67
valle	33.9	Max WS	A TR_200 8H	19.76	0.00	19.95	0.00					257.83	257.72	257.67	257.68	257.63
valle	33.9	Max WS	A TR_200 12H	18.77	0.00	18.91	0.00					257.83	257.65	257.60	257.61	257.55
valle	33.9	Max WS	A TR_30 1H	13.58	0.00	13.64	0.00					257.83	257.24	257.19	257.19	257.14
valle	33.9	Max WS	A TR_30 2H	17.61	0.00	17.73	0.00					257.83	257.52	257.46	257.47	257.41
valle	33.9	Max WS	A TR_30 3H	18.11	0.00	18.24	0.00					257.83	257.56	257.51	257.51	257.46
valle	33.9	Max WS	A TR_30 4H	17.91	0.00	18.03	0.00					257.83	257.55	257.50	257.50	257.45
valle	33.9	Max WS	A TR_30 6H	16.06	0.00	16.17	0.00					257.83	257.43	257.38	257.39	257.33
valle	33.9	Max WS	A TR_30 8H	14.07	0.00	14.17	0.00					257.83	257.29	257.25	257.25	257.20
valle	33.9	Max WS	A TR_30 12H	11.20	0.00	11.27	0.00					257.83	257.08	257.04	257.03	256.98
valle	32.9	Max WS	A TR_200 1H	20.23	0.00	20.70	0.00					257.79	257.69	257.63	257.58	257.52
valle	32.9	Max WS	A TR_200 2H	21.88	0.00	22.61	0.00					257.79	257.81	257.76	257.71	257.65
valle	32.9	Max WS	A TR_200 3H	21.92	0.00	22.66	0.00					257.79	257.81	257.76	257.71	257.65
valle	32.9	Max WS	A TR_200 4H	21.42	0.00	22.08	0.00					257.79	257.77	257.72	257.67	257.61
valle	32.9	Max WS	A TR_200 6H	20.59	0.00	21.12	0.00					257.79	257.72	257.67	257.62	257.56
valle	32.9	Max WS	A TR_200 8H	19.95	0.00	20.40	0.00					257.79	257.68	257.62	257.57	257.52
valle	32.9	Max WS	A TR_200 12H	18.91	0.00	19.26	0.00					257.79	257.61	257.55	257.50	257.44
valle	32.9	Max WS	A TR_30 1H	13.64	0.00	13.81	0.00					257.79	257.19	257.14	257.05	256.99
valle	32.9	Max WS	A TR_30 2H	17.73	0.00	18.00	0.00					257.79	257.47	257.41	257.34	257.28
valle	32.9	Max WS	A TR_30 3H	18.24	0.00	18.54	0.00					257.79	257.51	257.46	257.39	257.33
valle	32.9	Max WS	A TR_30 4H	18.03	0.00	18.32	0.00					257.79	257.50	257.45	257.38	257.32
valle	32.9	Max WS	A TR_30 6H	16.17	0.00	16.42	0.00					257.79	257.39	257.33	257.26	257.20
valle	32.9	Max WS	A TR_30 8H	14.17	0.00	14.40	0.00					257.79	257.25	257.20	257.11	257.06
valle	32.9	Max WS	A TR_30 12H	11.27	0.00	11.45	0.00					257.79	257.03	256.98	256.90	256.84
valle01	26.98	Max WS	A TR_200 1H	24.95	0.00	24.93	0.00					257.55	257.31	257.23	257.18	257.13
valle01	26.98	Max WS	A TR_200 2H	31.03	0.00	31.01	0.00					257.55	257.46	257.36	257.31	257.23
valle01	26.98	Max WS	A TR_200 3H	30.90	0.00	30.87	0.00					257.55	257.46	257.36	257.31	257.23
valle01	26.98	Max WS	A TR_200 4H	29.39	0.00	29.37	0.00					257.55	257.42	257.32	257.28	257.20
valle01	26.98	Max WS	A TR_200 6H	27.03	0.00	27.03	0.00					257.55	257.36	257.27	257.23	257.16
valle01	26.98	Max WS	A TR_200 8H	25.40	0.00	25.39	0.00					257.55	257.31	257.23	257.19	257.13
valle01	26.98	Max WS	A TR_200 12H	23.08	0.00	23.08	0.00					257.55	257.22	257.15	257.10	257.05
valle01	26.98	Max WS	A TR_30 1H	15.29	0.00	15.28	0.00					257.55	256.66	256.59	256.50	256.46
valle01	26.98	Max WS	A TR_30 2H	19.96	0.00	19.96	0.00					257.55	256.98	256.90	256.84	256.79
valle01	26.98	Max WS	A TR_30 3H	21.32	0.00	21.27	0.00					257.55	257.05	256.98	256.92	256.86
valle01	26.98	Max WS	A TR_30 4H	21.28	0.00	21.24	0.00					257.55	257.05	256.97	256.91	256.85
valle01	26.98	Max WS	A TR_30 6H	19.12	0.00	19.11	0.00					257.55	256.92	256.84	256.77	256.72
valle01	26.98	Max WS	A TR_30 8H	16.82	0.00	16.81	0.00					257.55	256.76	256.69	256.60	256.56
valle01	26.98	Max WS	A TR_30 12H	13.48	0.00	13.47	0.00					257.55	256.54	256.47	256.38	256.35
valle01	26.97	Max WS	A TR_200 1H	24.95	0.00	24.93	0.00					257.49	257.31	257.23	257.18	257.13
valle01	26.97	Max WS	A TR_200 2H	31.03	0.00	31.01	0.00					257.49	257.46	257.36	257.31	257.23
valle01	26.97	Max WS	A TR_200 3H	30.90	0.00	30.87	0.00					257.49	257.46	257.36	257.31	257.23
valle01	26.97	Max WS	A TR_200 4H	29.39	0.00	29.37	0.00					257.49	257.42	257.32	257.28	257.20
valle01	26.97	Max WS	A TR_200 6H	27.03	0.00	27.03	0.00					257.49	257.36	257.27	257.23	257.16
valle01	26.97	Max WS	A TR_200 8H	25.40	0.00	25.39	0.00					257.49	257.31	257.23	257.19	257.13
valle01	26.97	Max WS	A TR_200 12H	23.08	0.00	23.08	0.00					257.49	257.22	257.15	257.10	257.05
valle01	26.97	Max WS	A TR_30 1H	15.29	0.00	15.28	0.00					257.49	256.66	256.59	256.50	256.46
valle01	26.97	Max WS	A TR_30 2H	19.96	0.00	19.96	0.00					257.49	256.98	256.90	256.84	256.79
valle01	26.97	Max WS	A TR_30 3H	21.32	0.00	21.27	0.00					257.49	257.05	256.98	256.92	256.86
valle01	26.97	Max WS	A TR_30 4H	21.28	0.00	21.24	0.00					257.49	257.05	256.97	256.91	256.85
valle01	26.97	Max WS	A TR_30 6H	19.12	0.00	19.11	0.00					257.49	256.92	256.84	256.77	256.72
valle01	26.97	Max WS	A TR_30 8H	16.82	0.00	16.81	0.00					257.49	256.76	256.69	256.60	256.56
valle01	26.97	Max WS	A TR_30 12H	13.48	0.00	13.47	0.00					257.49	256.54	256.47	256.38	256.35
valle01	24.98	Max WS	A TR_200 1H	24.93	5.21	19.45	5.21		148.64	0.13	0.07	256.85	257.11	257.05	256.97	256.95
valle01	24.98	Max WS	A TR_200 2H	30.98	8.48	18.06	8.48		184.14	0.15	0.08	256.85	257.19	257.10	257.03	257.01
valle01	24.98	Max WS	A TR_200 3H	30.72	8.62	17.94	8.62		184.96	0.15	0.08	256.85	257.19	257.10	257.03	257.01
valle01	24.98	Max WS	A TR_200 4H	29.34	7.93	17.90	7.93		180.40	0.15	0.08	256.85	257.17	257.09	257.02	257.00
valle01	24.98	Max WS	A TR_200 6H	27.02	6.56	18.65	6.56		165.28	0.14	0.08	256.85	257.13	257.07	257.00	256.98
valle01	24.98	Max WS	A TR_200 8H	25.39	4.88	20.82	4.88		144.32	0.13	0.07	256.85	257.11	257.05	256.96	256.94
valle01	24.98	Max WS	A TR_200 12H	23.08	0.99	23.57	0.99		76.26	0.07	0.04	256.85	257.04	256.99	256.86	256.83

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)
valle01	24.98	Max WS	A TR_30 1H	15.28	0.00	16.11	0.00					256.85	256.50	256.46	256.27	256.23
valle01	24.98	Max WS	A TR_30 2H	19.96	0.00	21.19	0.00					256.85	256.80	256.75	256.57	256.53
valle01	24.98	Max WS	A TR_30 3H	21.26	0.00	22.52	0.00					256.85	256.87	256.82	256.64	256.60
valle01	24.98	Max WS	A TR_30 4H	21.23	0.00	22.40	0.00					256.85	256.86	256.81	256.63	256.59
valle01	24.98	Max WS	A TR_30 6H	19.11	0.00	20.17	0.00					256.85	256.74	256.70	256.51	256.47
valle01	24.98	Max WS	A TR_30 8H	16.81	0.00	17.76	0.00					256.85	256.60	256.56	256.38	256.34
valle01	24.98	Max WS	A TR_30 12H	13.47	0.00	14.24	0.00					256.85	256.38	256.35	256.16	256.13
valle01	24.97	Max WS	A TR_200 1H	24.93	2.18	19.45	2.18		214.50	0.04	0.03	256.93	257.11	257.05	256.97	256.95
valle01	24.97	Max WS	A TR_200 2H	30.98	7.33	18.06	7.33		258.40	0.09	0.06	256.93	257.19	257.10	257.03	257.01
valle01	24.97	Max WS	A TR_200 3H	30.72	7.53	17.94	7.53		260.26	0.09	0.06	256.93	257.19	257.10	257.03	257.01
valle01	24.97	Max WS	A TR_200 4H	29.34	6.41	17.90	6.41		249.97	0.08	0.06	256.93	257.17	257.09	257.02	257.00
valle01	24.97	Max WS	A TR_200 6H	27.02	4.20	18.65	4.20		232.30	0.06	0.05	256.93	257.13	257.07	257.00	256.98
valle01	24.97	Max WS	A TR_200 8H	25.39	1.65	20.82	1.65		208.54	0.04	0.03	256.93	257.11	257.05	256.96	256.94
valle01	24.97	Max WS	A TR_200 12H	23.08	0.00	23.57	0.00					256.93	257.04	256.99	256.86	256.83
valle01	24.97	Max WS	A TR_30 1H	15.28	0.00	16.11	0.00					256.93	256.50	256.46	256.27	256.23
valle01	24.97	Max WS	A TR_30 2H	19.96	0.00	21.19	0.00					256.93	256.80	256.75	256.57	256.53
valle01	24.97	Max WS	A TR_30 3H	21.26	0.00	22.52	0.00					256.93	256.87	256.82	256.64	256.60
valle01	24.97	Max WS	A TR_30 4H	21.23	0.00	22.40	0.00					256.93	256.86	256.81	256.63	256.59
valle01	24.97	Max WS	A TR_30 6H	19.11	0.00	20.17	0.00					256.93	256.74	256.70	256.51	256.47
valle01	24.97	Max WS	A TR_30 8H	16.81	0.00	17.76	0.00					256.93	256.60	256.56	256.38	256.34
valle01	24.97	Max WS	A TR_30 12H	13.47	0.00	14.24	0.00					256.93	256.38	256.35	256.16	256.13

FOSSO DEI LAVATOI

1) A TR_200 3H 2) A TR_30 3H

Lavatoi unico

N.B. in grigio sono indicati gli sfioratori laterali in destra idrografica

Legend

WS Max WS - A TR_200 3H

WS Max WS - A TR_30 3H

Ground

Elevation (m)

290
280
270
260
250

60.9 61.5* 62 62.5* 63 64 64.25* 64.5* 64.75* 65 65.2* 65.4* 65.6* 65.8* 66 66.25* 66.5* 66.75* 67 68.5 69.3333* 70 71 71.6666* 72.1666* 72.5* 72.8333* 73.3333* 74 74.3333* 74.6666* 75 76.2* 76.6* 77 77.5* 78 78.25* 78.5* 78.75* 79 79.4* 79.8* 80.0769* 80.2307* 80.3846* 80.5384* 80.6923* 80.8461* 81 81.1428* 81.2857* 81.4285* 81.5714* 81.7142* 81.8571* 82 83.1* 83.3* 83.5* 83.7* 83.9*

0 200 400 600 800 1000 1200

Main Channel Distance (m)

1 cm Horiz. = 36 m 1 cm Vert. = 2 m

1) A TR_200 3H 2) A TR_30 3H

Lavatoi unico

N.B. in grigio sono indicati gli sfioratori laterali in sinistra idrografica

Legend

- WS Max WS - A TR_200 3H
- WS Max WS - A TR_30 3H
- Ground

Elevation (m)

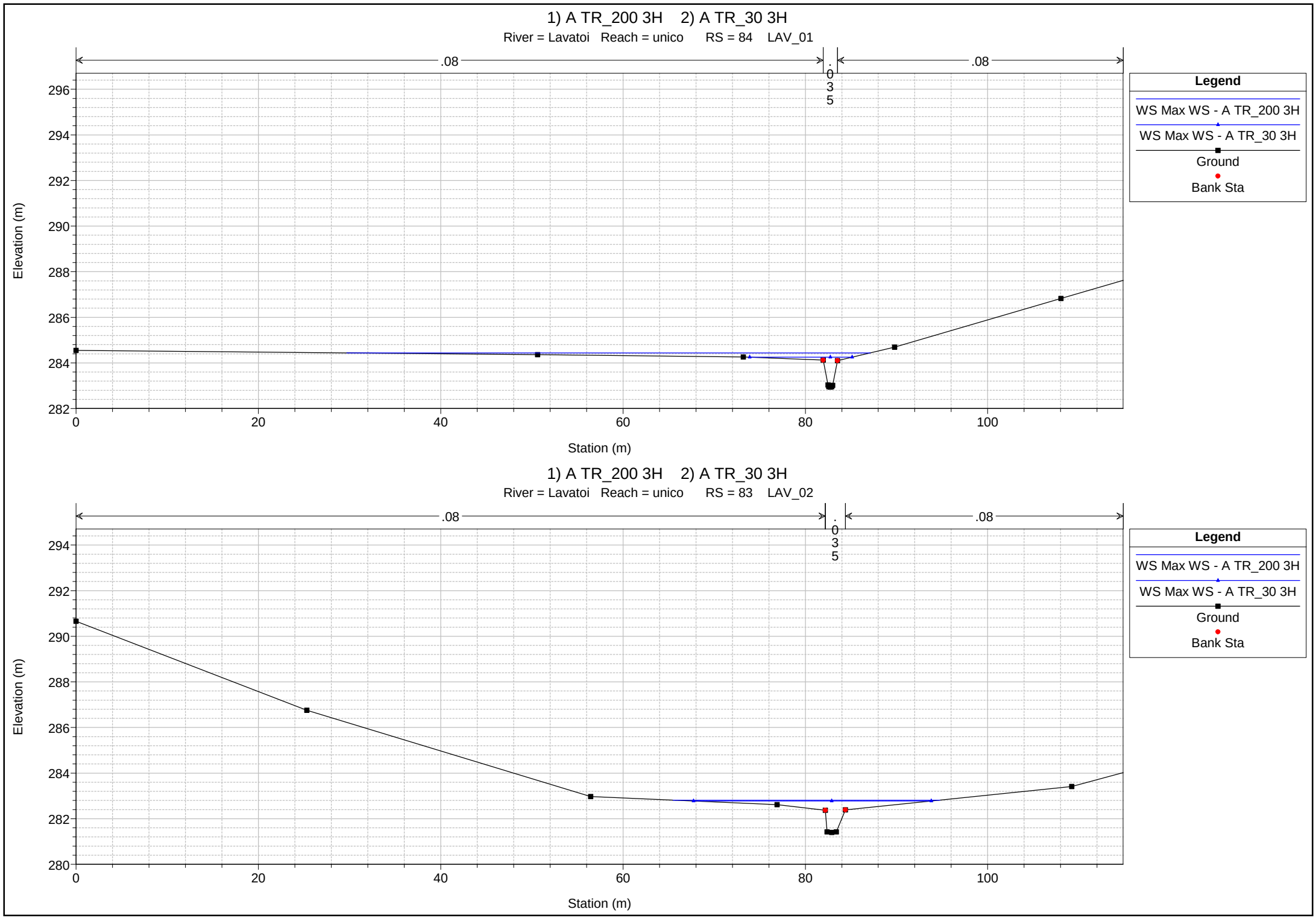
290
280
270
260
250

60.9 61.5* 62 62.5* 63 64 64.25* 64.5* 64.75* 65 65.2* 65.4* 65.6* 65.8* 66 66.25* 66.5* 66.75* 67 68.5 69.3333* 70 71 71.6666* 72.1666* 72.5* 72.8333* 73.3333* 74 74.3333* 74.6666* 75 76.2* 76.6* 77 77.5* 78 78.25* 78.5* 78.75* 79 79.4* 79.8* 80.0769* 80.2307* 80.3846* 80.5384* 80.6923* 80.8461* 81 81.1428* 81.2857* 81.4285* 81.5714* 81.7142* 81.8571* 82 83.1* 83.3* 83.5* 83.7* 83.9*

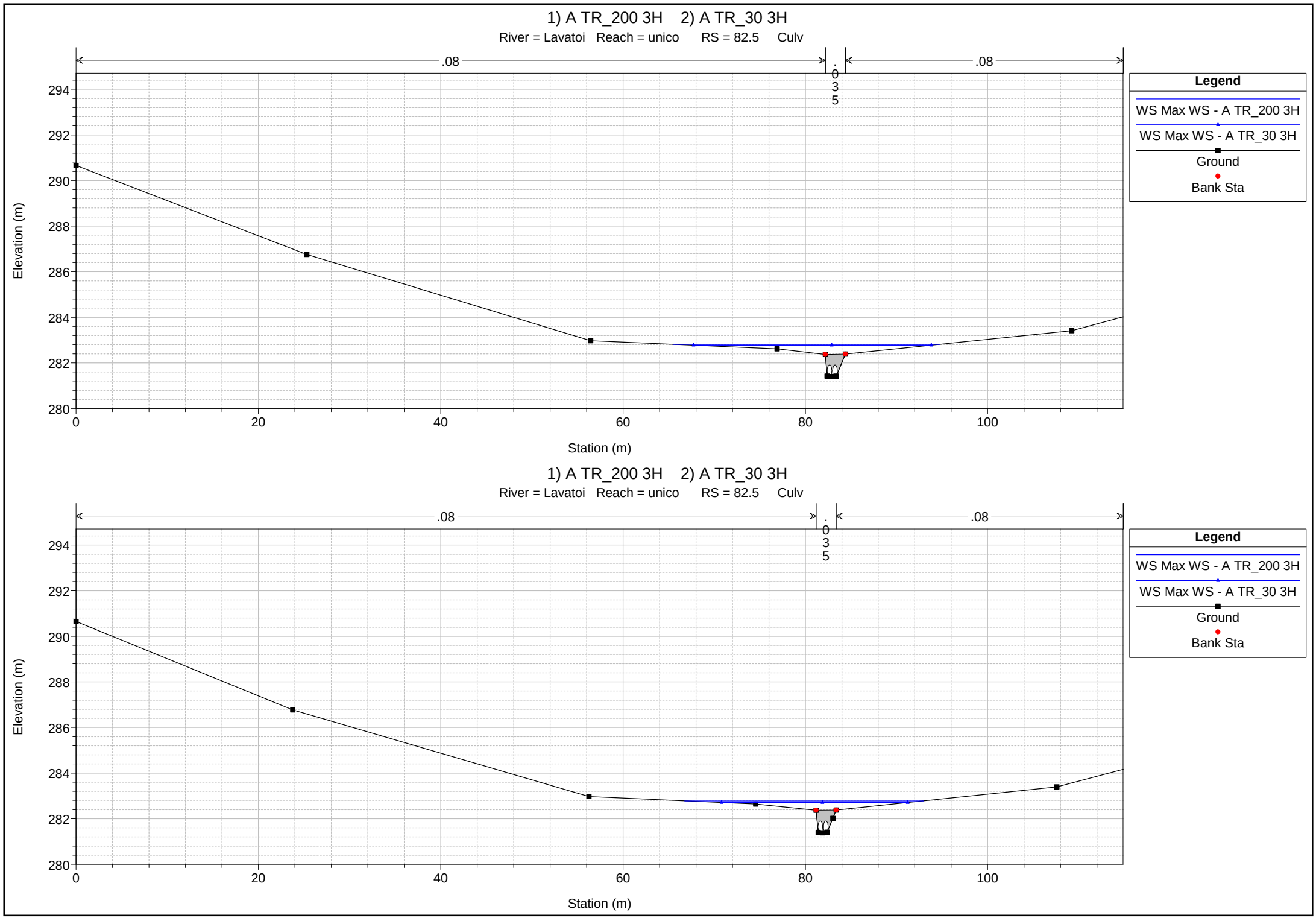
0 200 400 600 800 1000 1200

Main Channel Distance (m)

1 cm Horiz. = 36 m 1 cm Vert. = 2 m

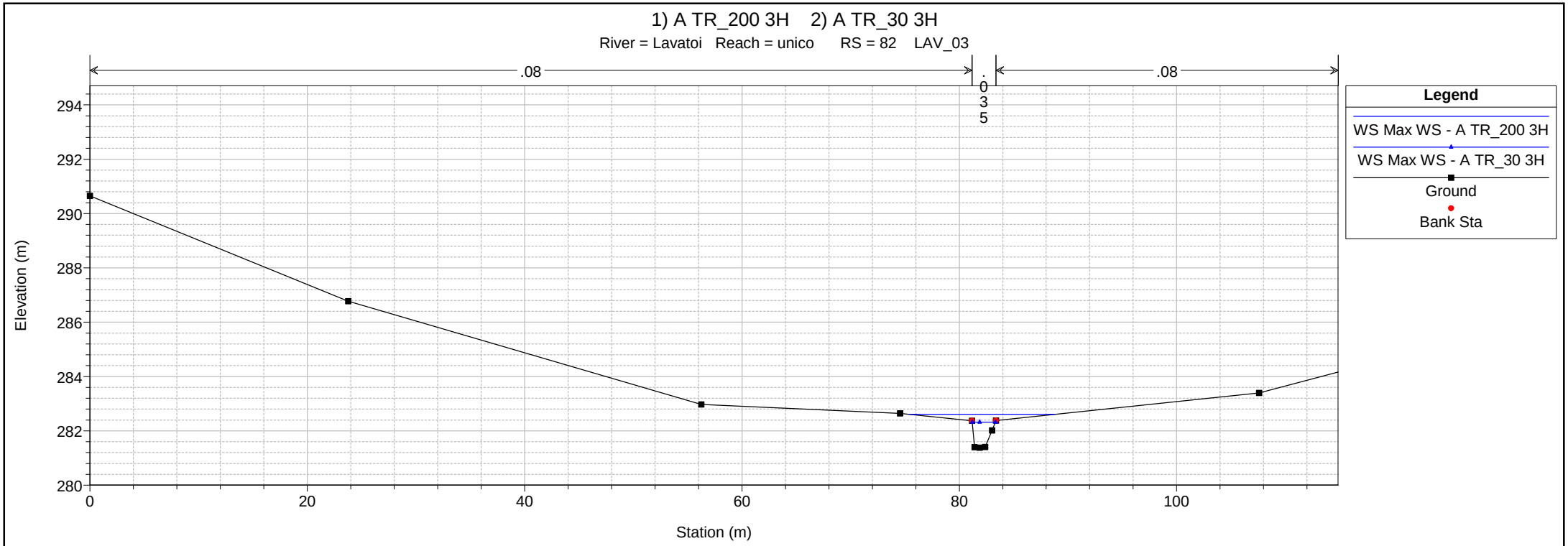


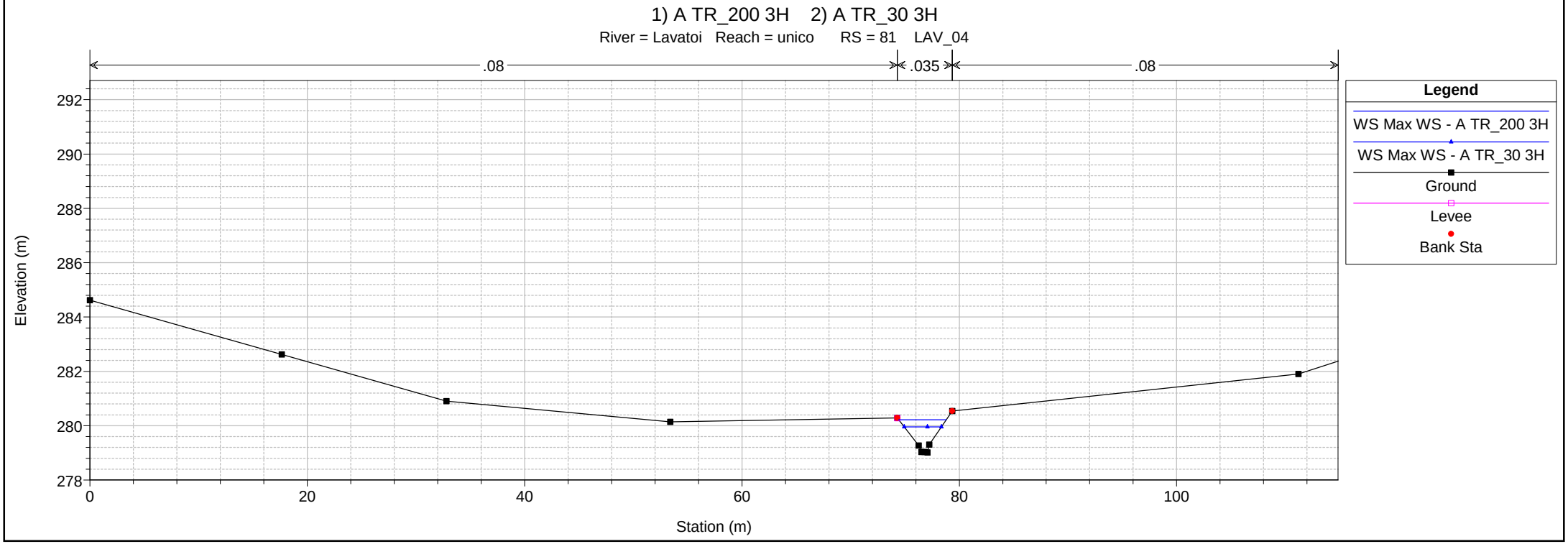
1 cm Horiz. = 5 m 1 cm Vert. = 2 m



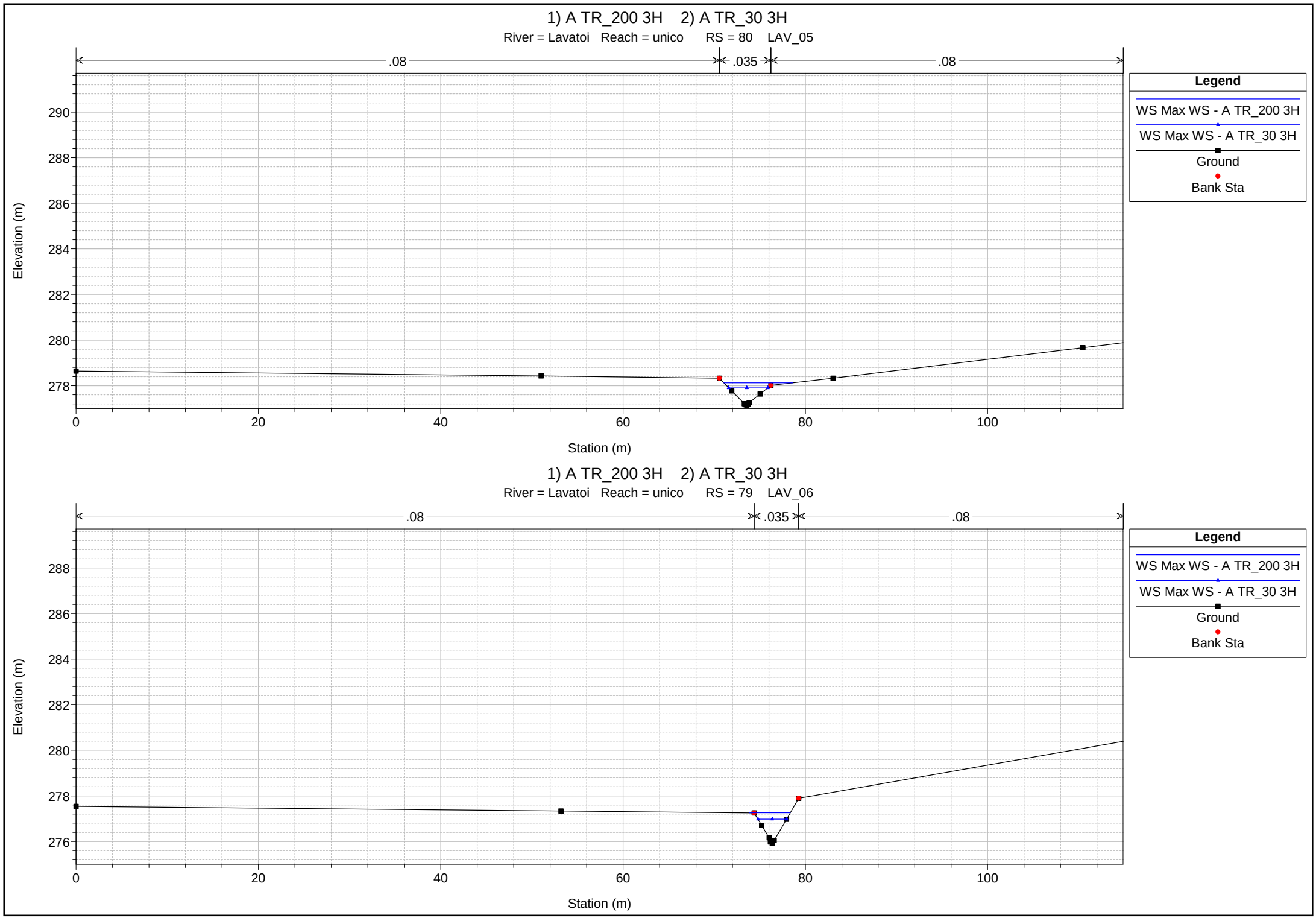
1) A TR_200 3H 2) A TR_30 3H
River = Lavatoi Reach = unico RS = 82.5 Culv
.08
.035
.08
Legend
WS Max WS - A TR_200 3H
WS Max WS - A TR_30 3H
Ground
Bank Sta
Elevation (m)
Station (m)

1 cm Horiz. = 5 m 1 cm Vert. = 2 m

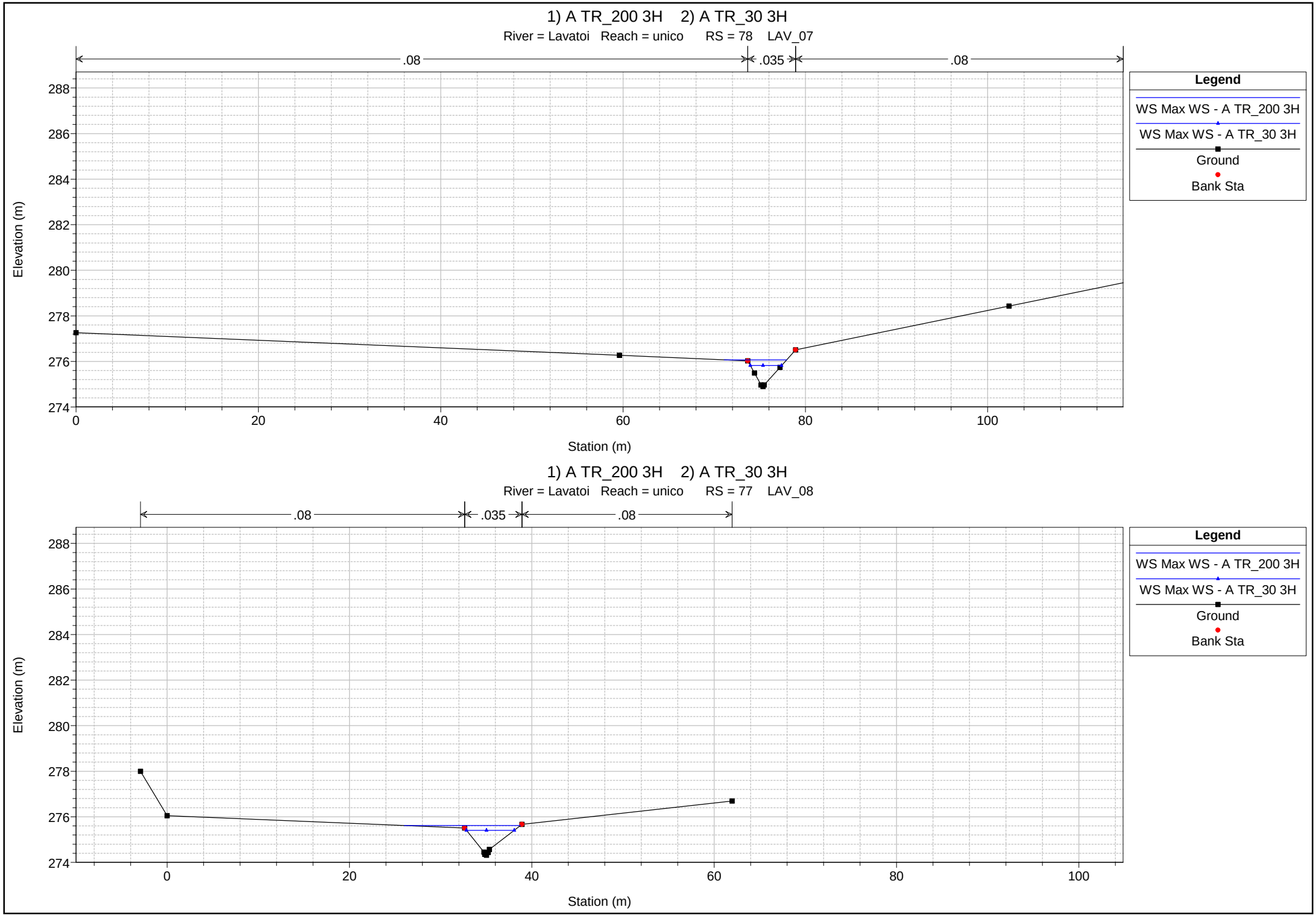




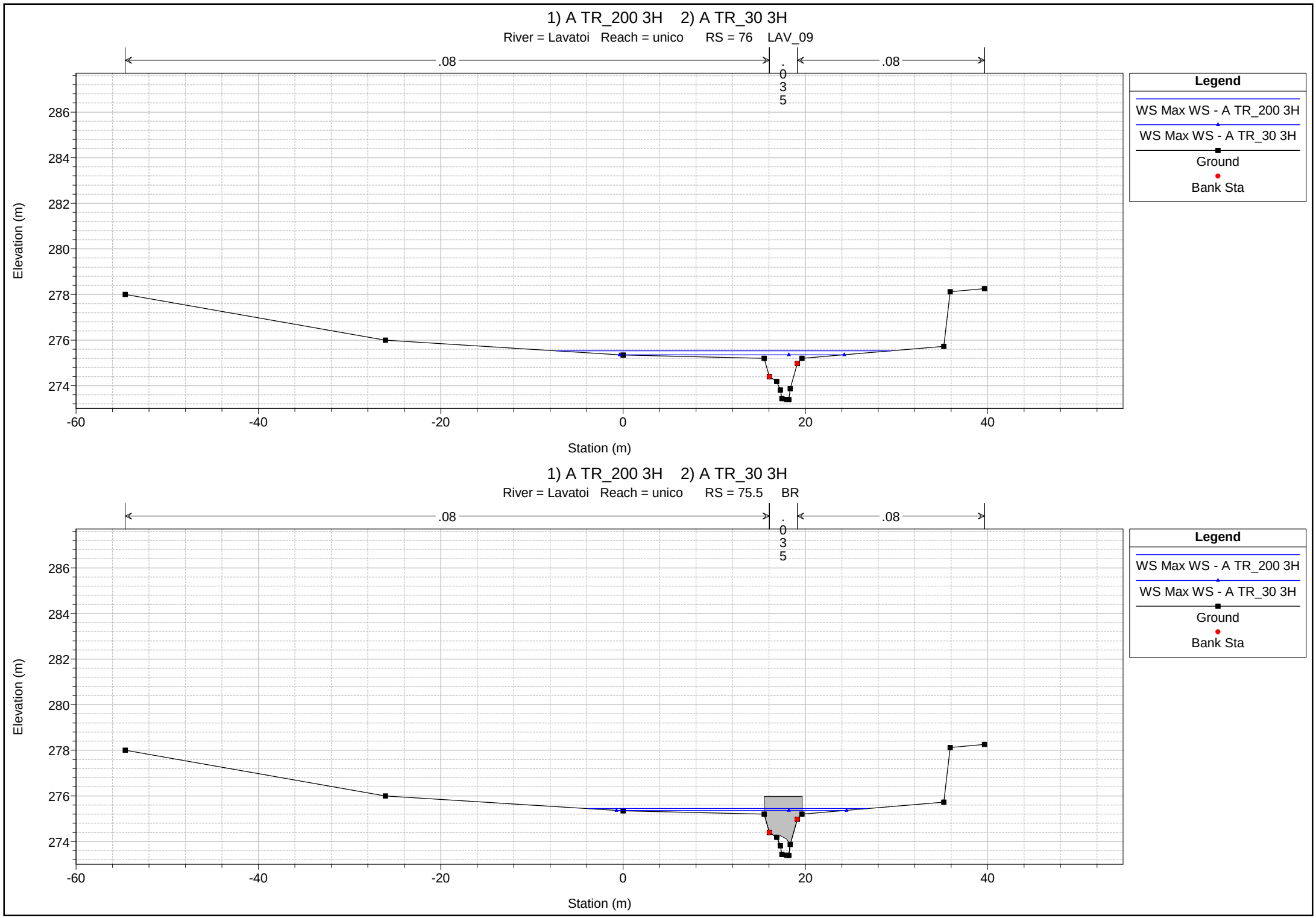
1 cm Horiz. = 5 m 1 cm Vert. = 2 m



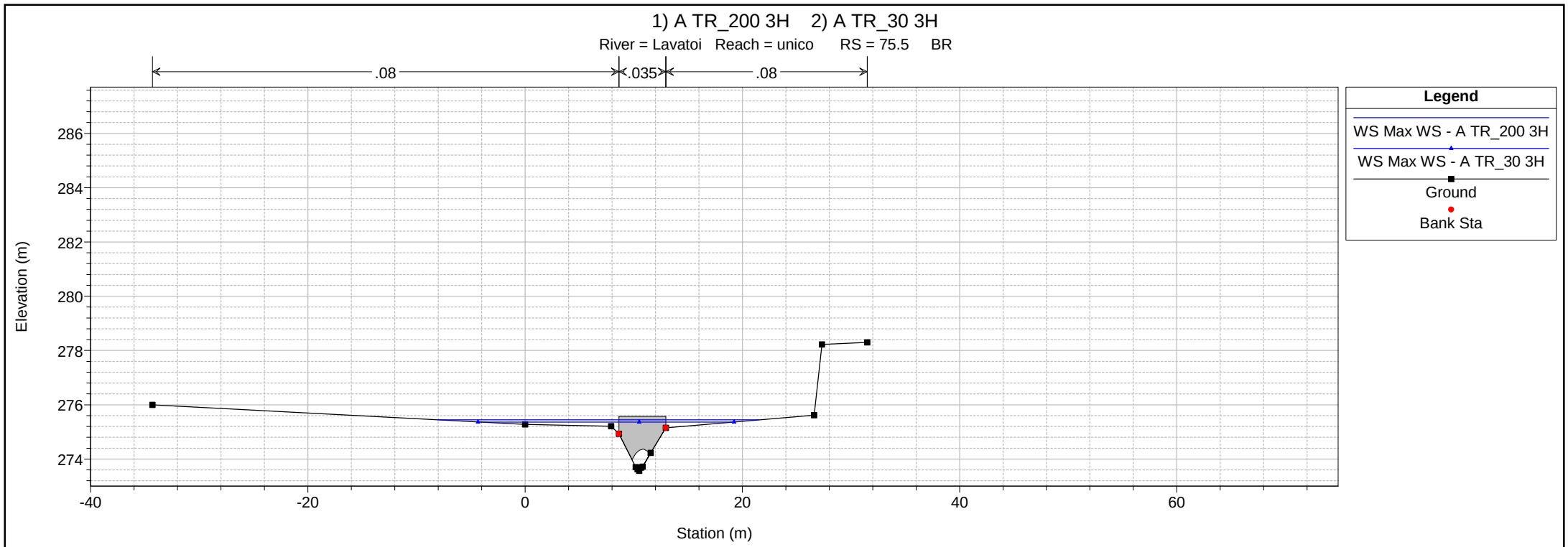
1 cm Horiz. = 5 m 1 cm Vert. = 2 m

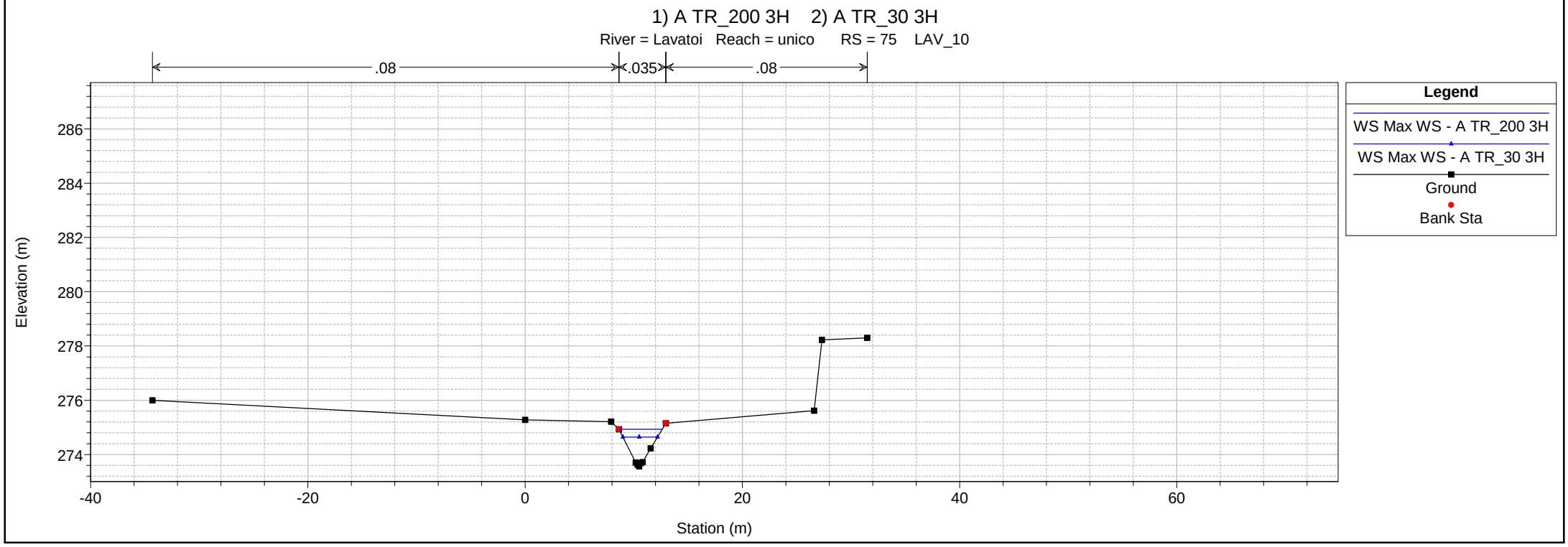


1 cm Horiz. = 5 m 1 cm Vert. = 2 m

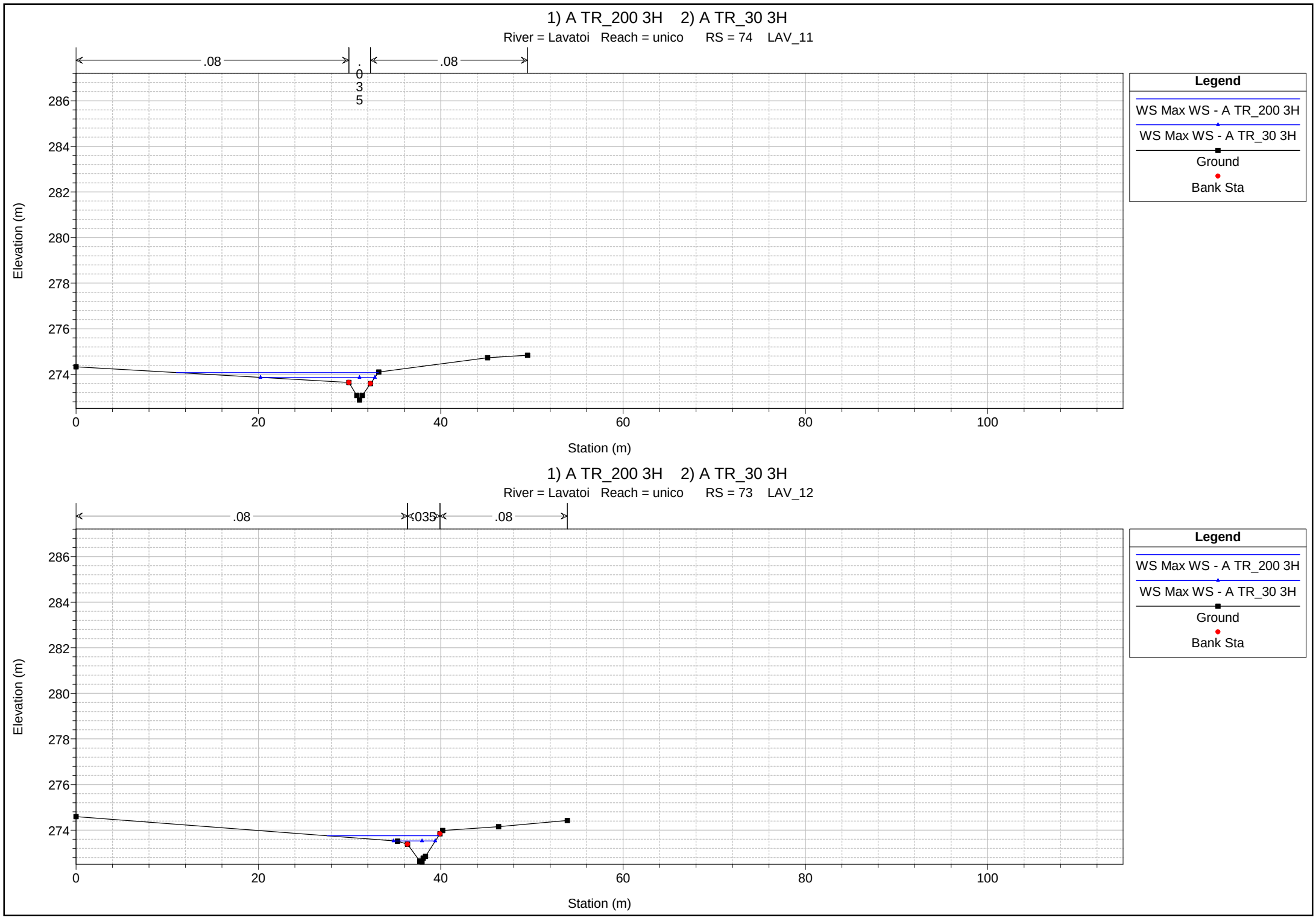


1 cm Horiz. = 5 m 1 cm Vert. = 2 m

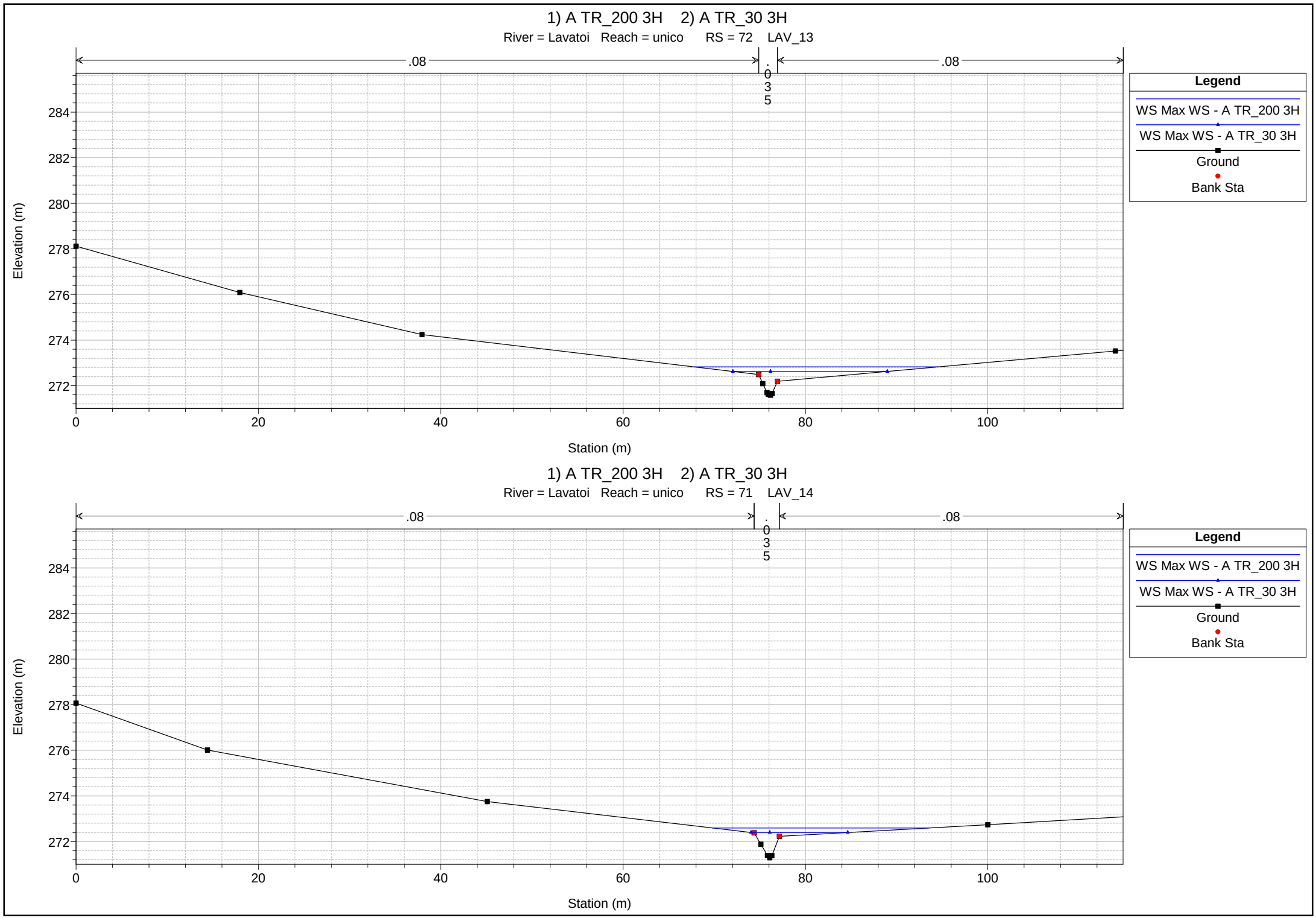




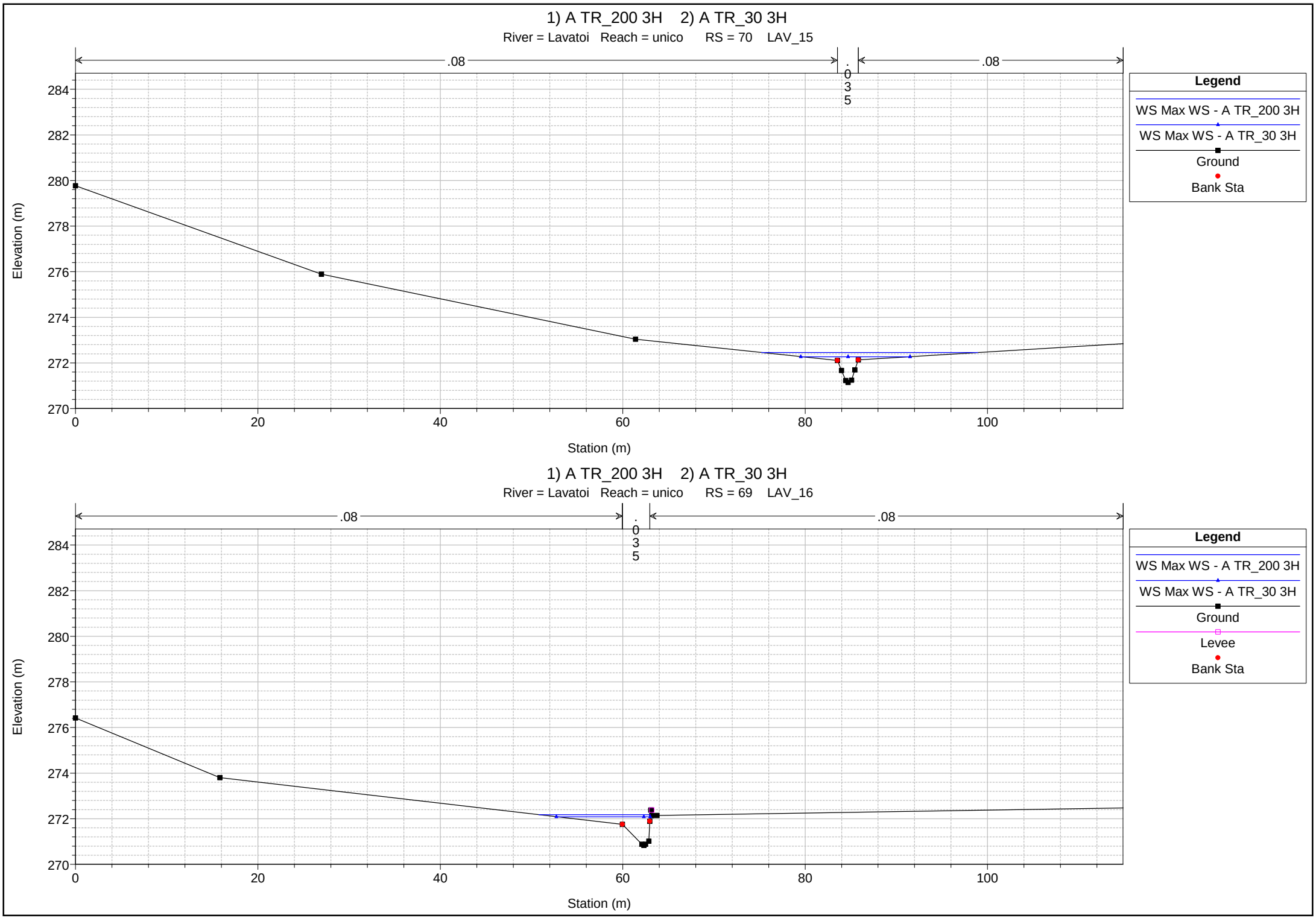
1 cm Horiz. = 5 m 1 cm Vert. = 2 m



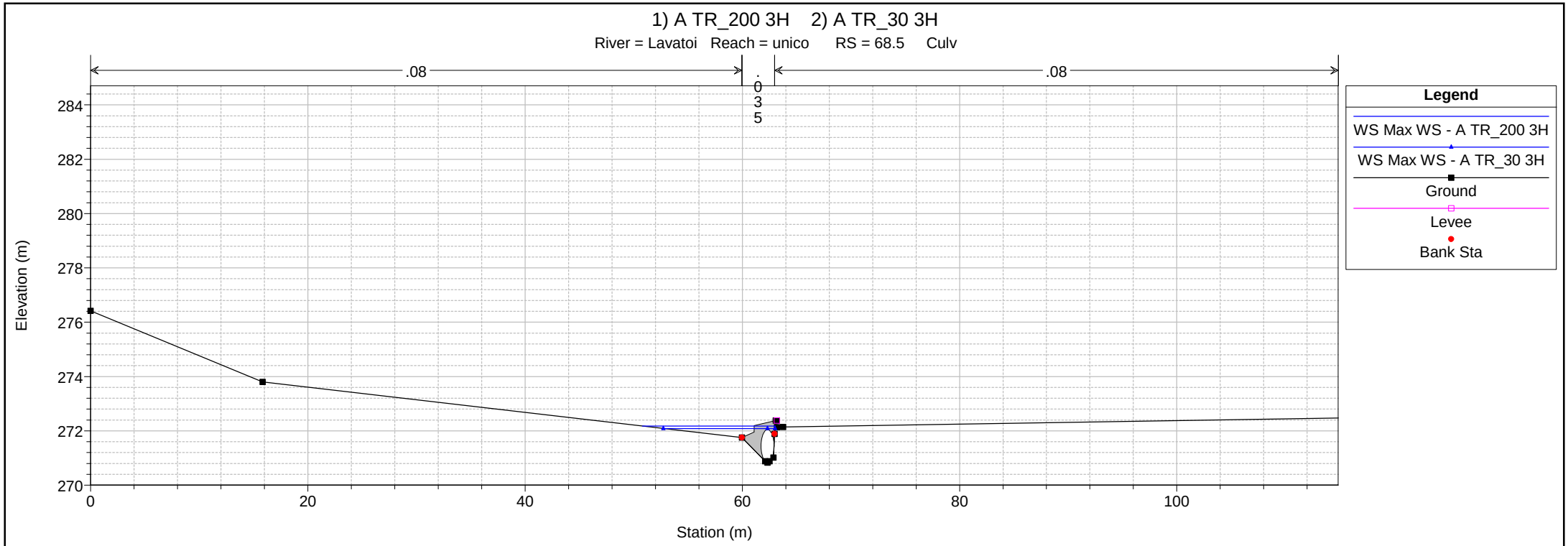
1 cm Horiz. = 5 m 1 cm Vert. = 2 m

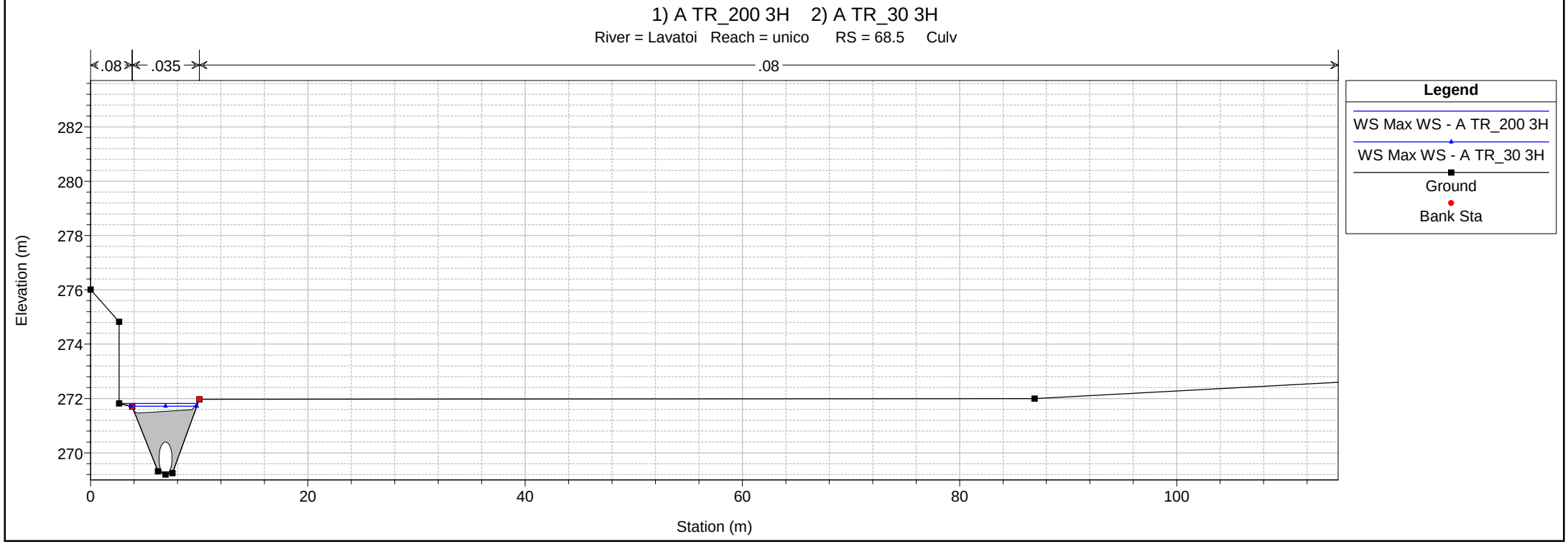


1 cm Horiz. = 5 m 1 cm Vert. = 2 m

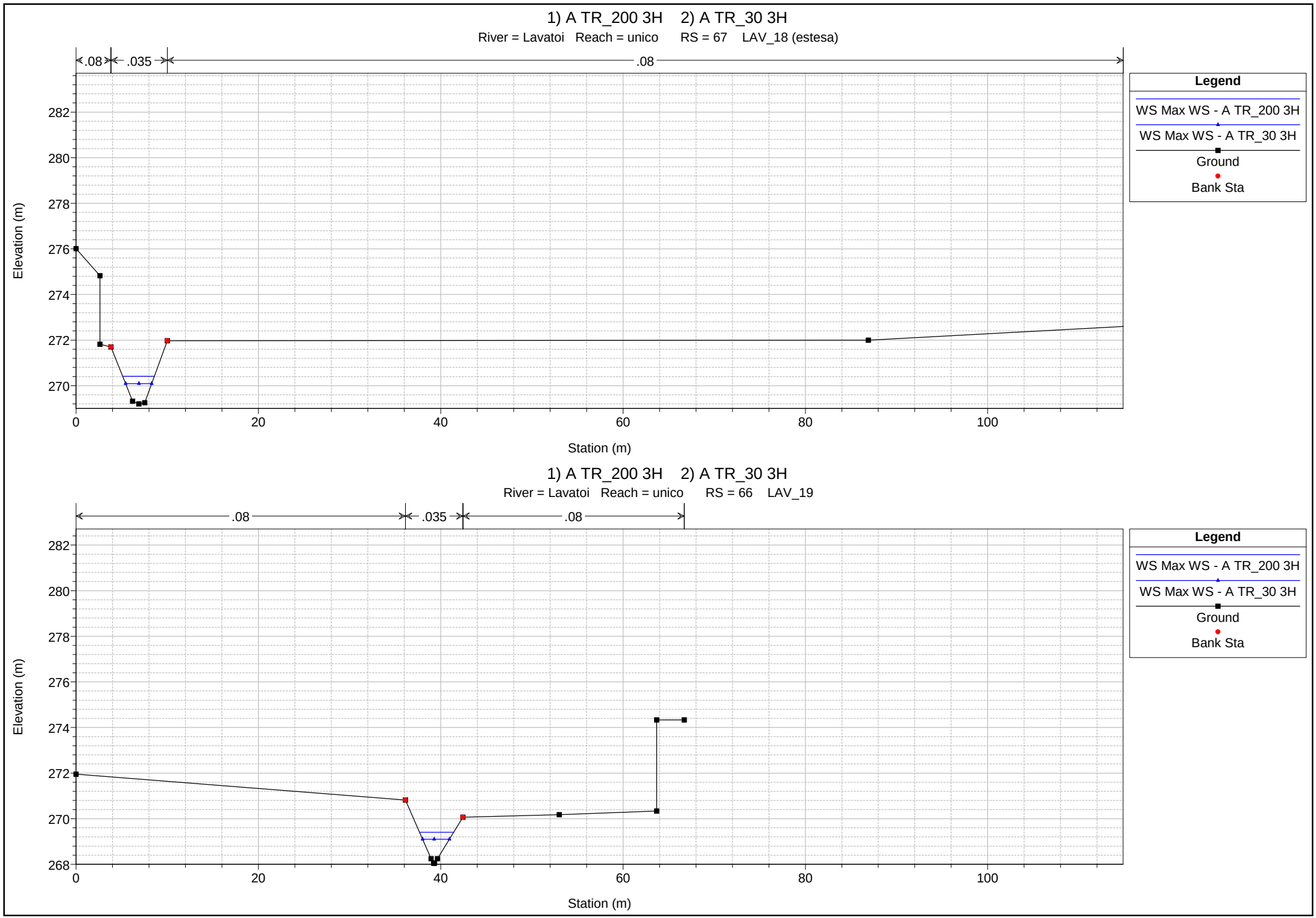


1 cm Horiz. = 5 m 1 cm Vert. = 2 m

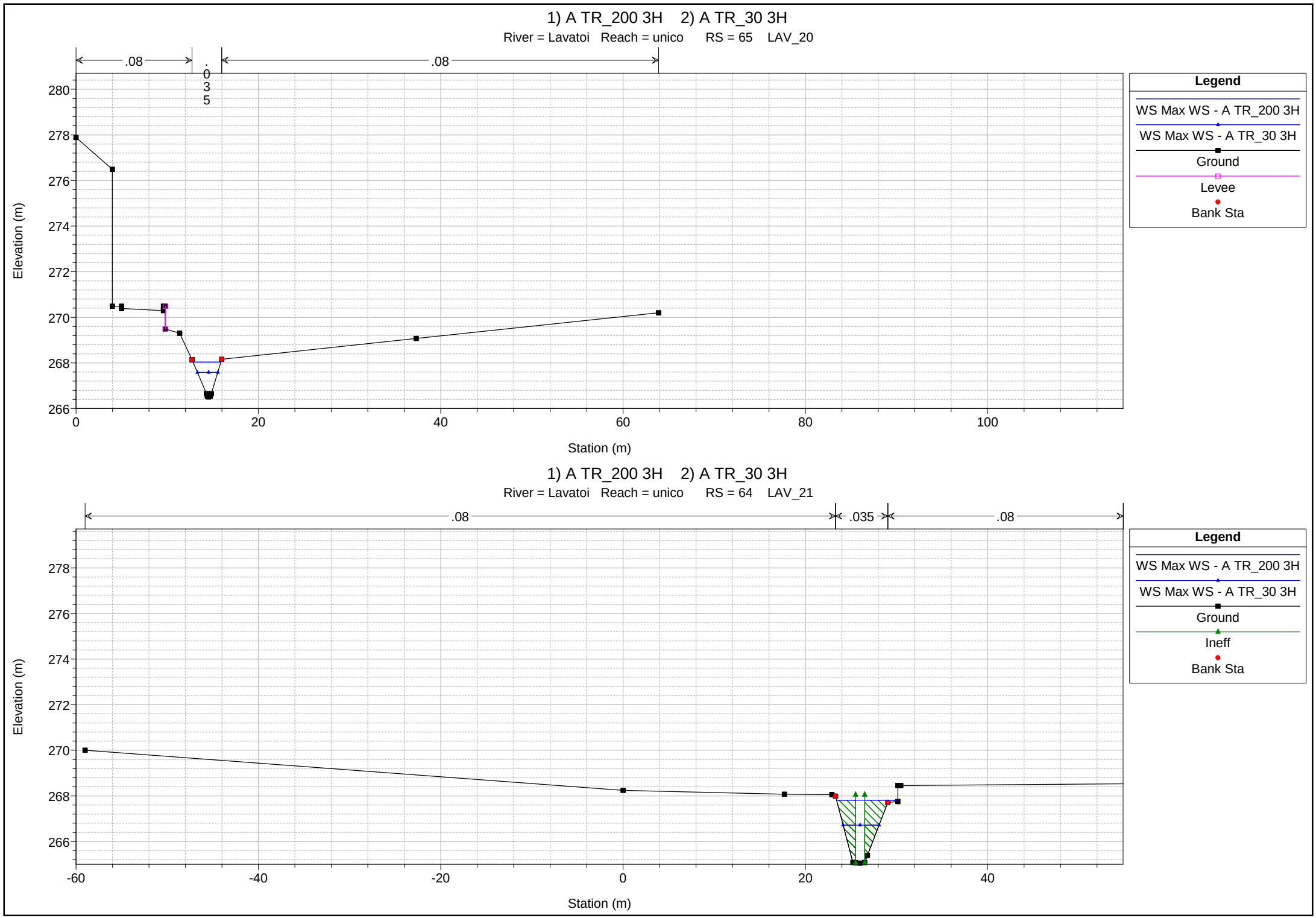




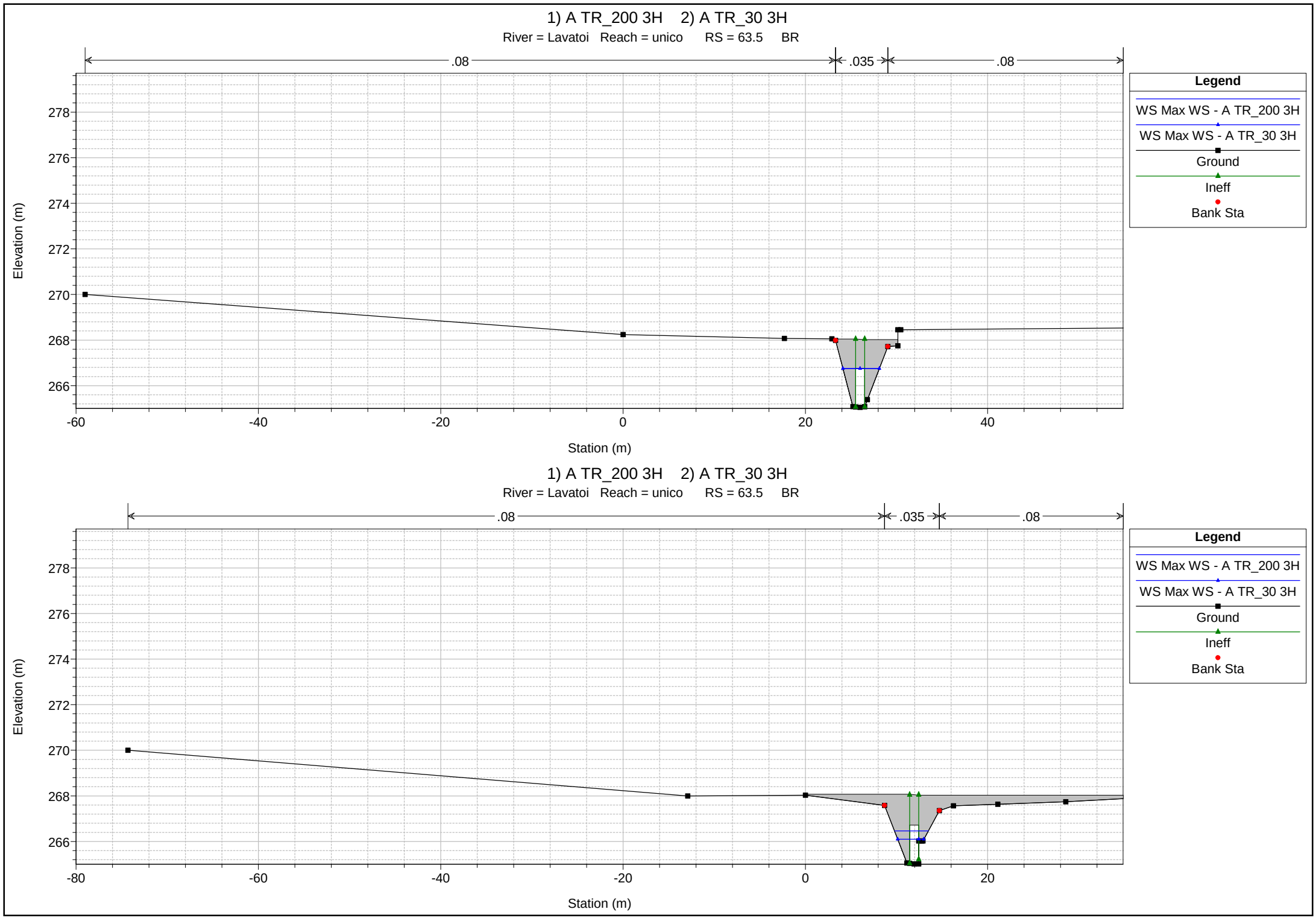
1 cm Horiz. = 5 m 1 cm Vert. = 2 m



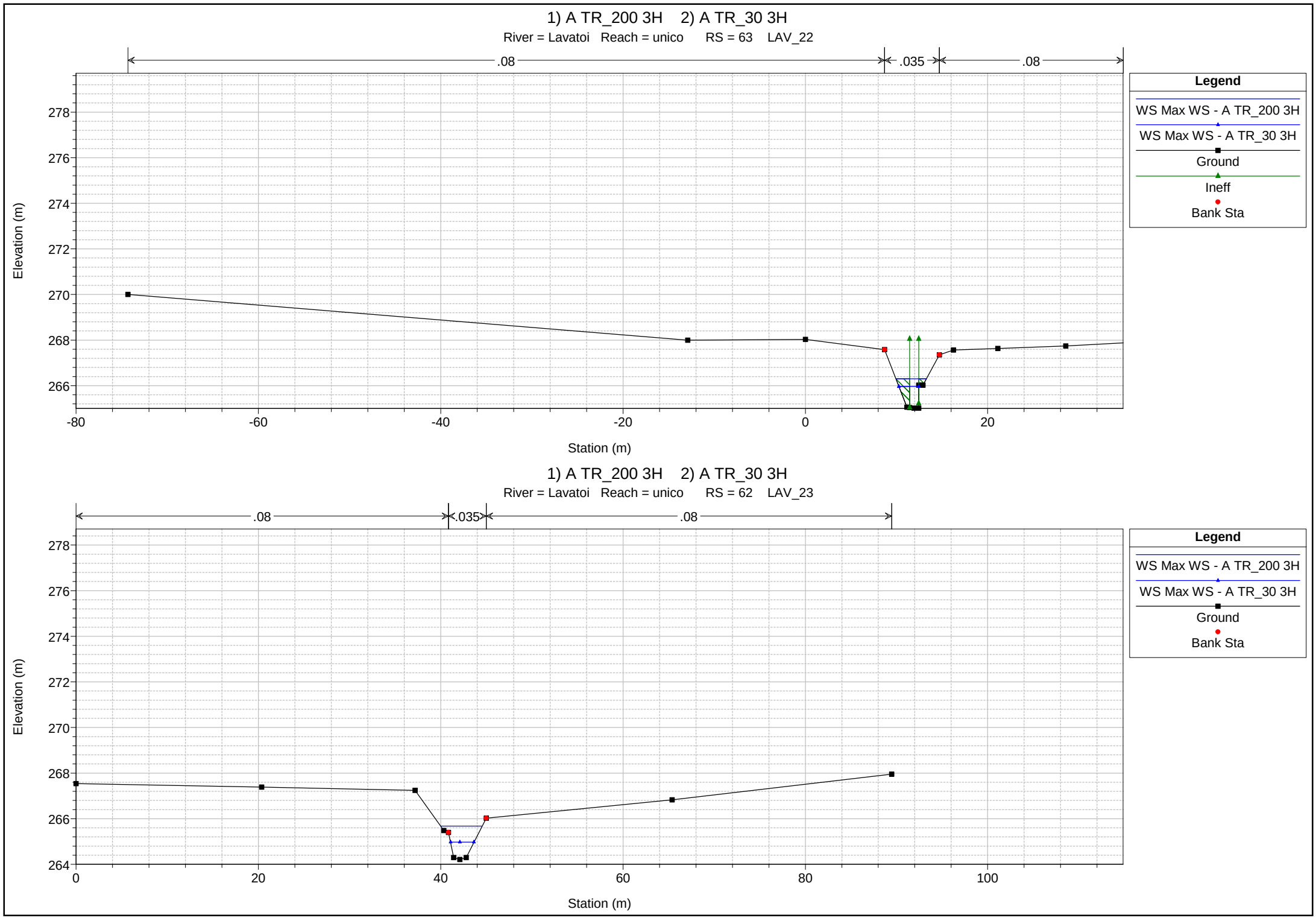
1 cm Horiz. = 5 m 1 cm Vert. = 2 m



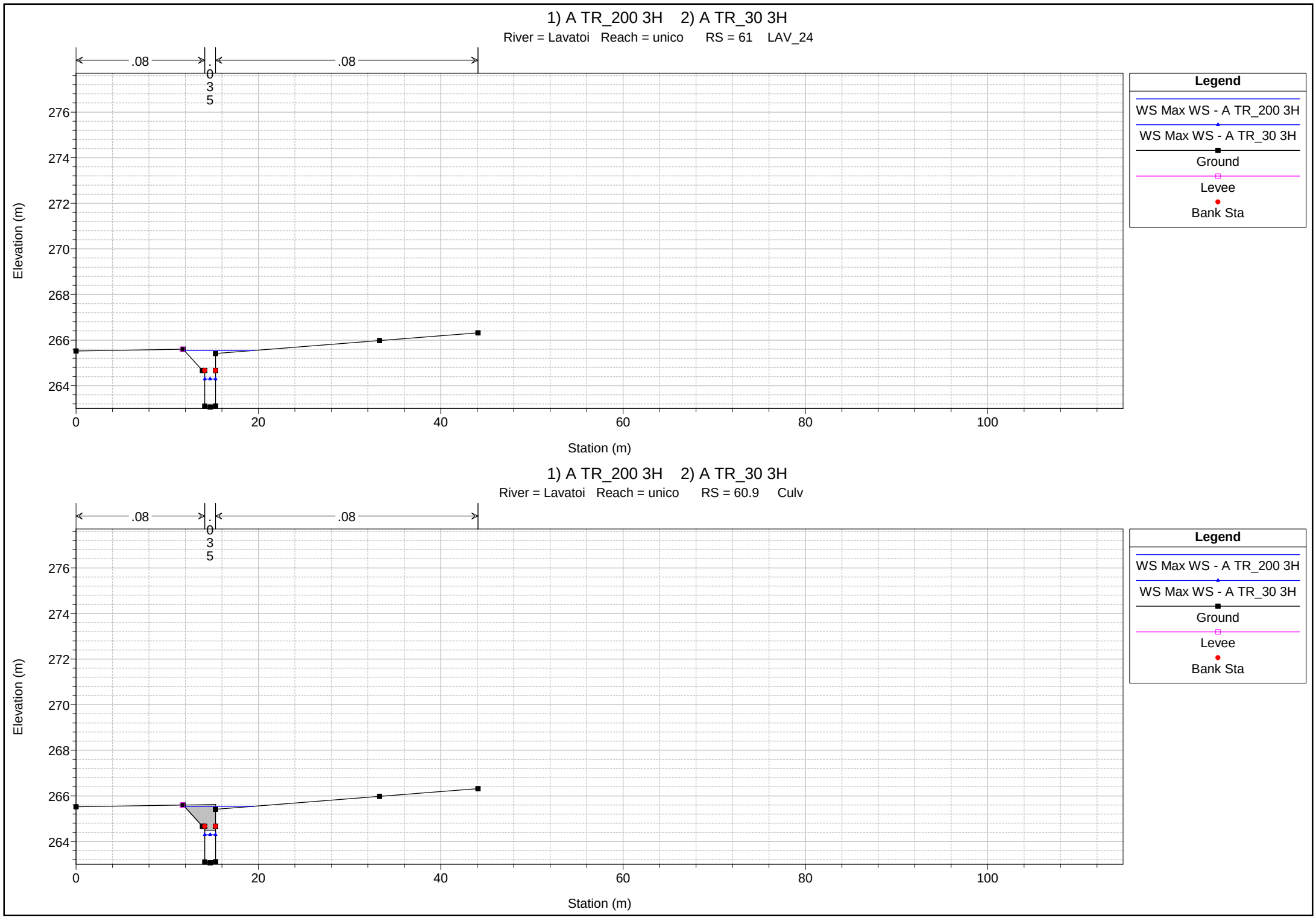
1 cm Horiz. = 5 m 1 cm Vert. = 2 m



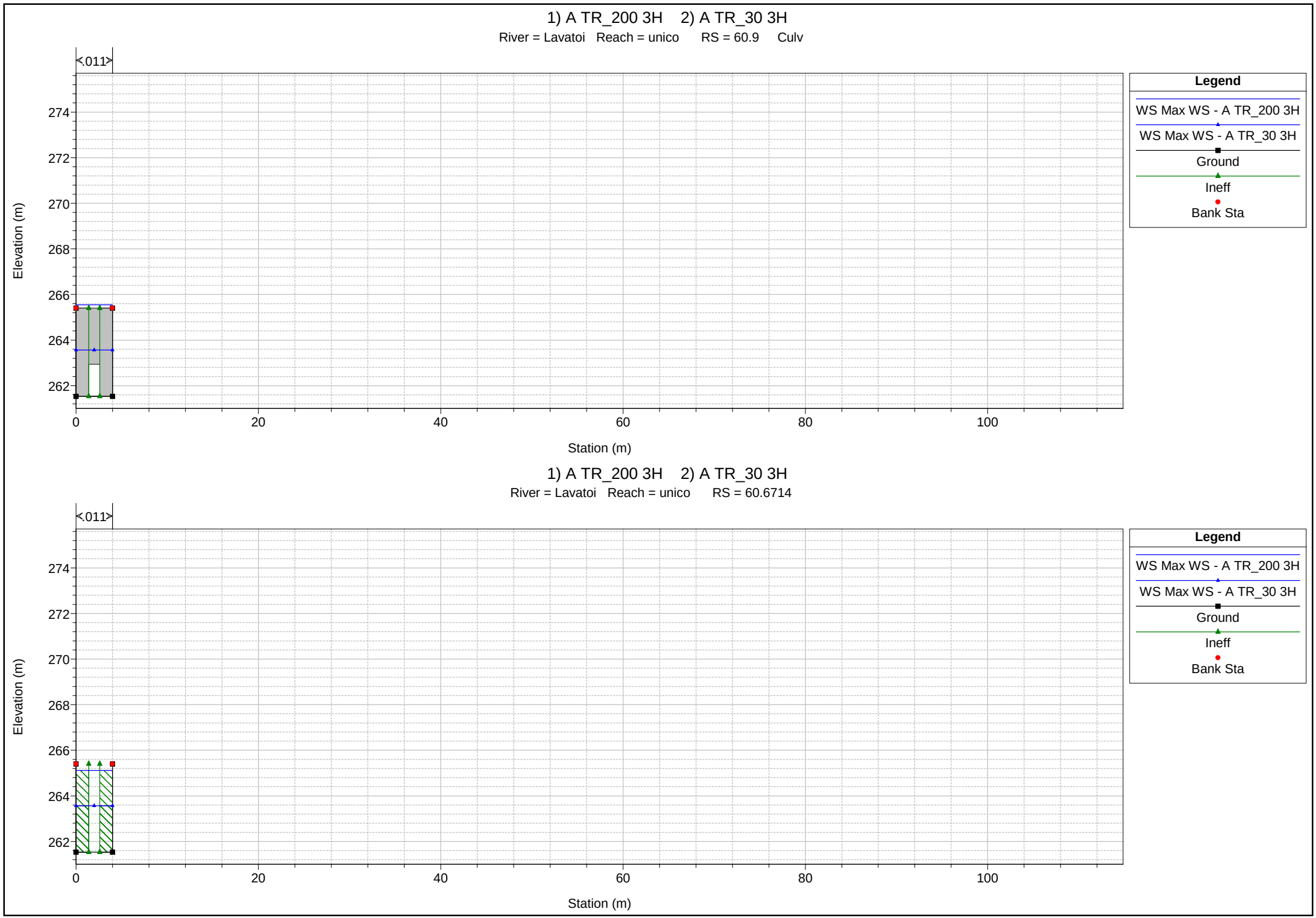
1 cm Horiz. = 5 m 1 cm Vert. = 2 m



1 cm Horiz. = 5 m 1 cm Vert. = 2 m



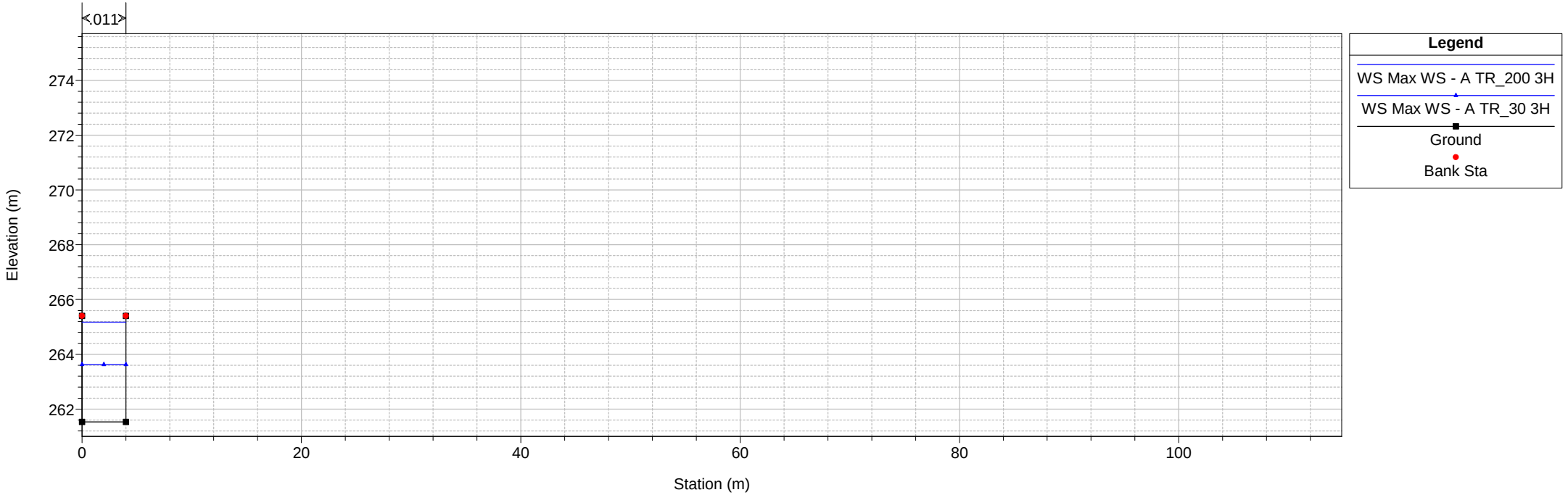
1 cm Horiz. = 5 m 1 cm Vert. = 2 m



1 cm Horiz. = 5 m 1 cm Vert. = 2 m

1) A TR_200 3H 2) A TR_30 3H

River = Lavatoi Reach = unico RS = 60.5571



1 cm Horiz. = 5 m 1 cm Vert. = 2 m

HEC-RAS River: Lavatoi Reach: unico 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)	
unico	84	Max WS	A TR_200 1H	7.89	282.94	284.48	284.54	284.65	0.016063	2.51	10.43	67.60	0.76
unico	84	Max WS	A TR_200 2H	7.60	282.94	284.47	284.53	284.64	0.015284	2.44	10.26	66.93	0.74
unico	84	Max WS	A TR_200 3H	6.60	282.94	284.44	284.51	284.64	0.016594	2.49	8.10	57.44	0.77
unico	84	Max WS	A TR_200 4H	5.80	282.94	284.41	284.49	284.63	0.017068	2.48	6.58	49.69	0.78
unico	84	Max WS	A TR_200 6H	4.60	282.94	284.34	284.45	284.62	0.019943	2.56	3.81	31.26	0.83
unico	84	Max WS	A TR_200 8H	3.90	282.94	284.29	284.42	284.58	0.020117	2.49	2.60	19.33	0.83
unico	84	Max WS	A TR_200 12H	3.10	282.94	284.20	284.37	284.48	0.020613	2.36	1.56	7.76	0.83
unico	84	Max WS	A TR_30 1H	4.00	282.94	284.30	284.43	284.59	0.020156	2.51	2.75	21.17	0.83
unico	84	Max WS	A TR_30 2H	4.00	282.94	284.30	284.43	284.59	0.020150	2.51	2.76	21.25	0.83
unico	84	Max WS	A TR_30 3H	3.50	282.94	284.25	284.40	284.54	0.020264	2.43	2.01	11.23	0.83
unico	84	Max WS	A TR_30 4H	3.10	282.94	284.20	284.37	284.48	0.020677	2.36	1.55	7.72	0.83
unico	84	Max WS	A TR_30 6H	2.50	282.94	284.10	284.00	284.35	0.021197	2.20	1.13	1.58	0.82
unico	84	Max WS	A TR_30 8H	2.10	282.94	284.01	283.90	284.24	0.020790	2.10	1.00	1.46	0.81
unico	84	Max WS	A TR_30 12H	1.60	282.94	283.88	283.78	284.08	0.020402	1.96	0.82	1.33	0.80
unico	83	Max WS	A TR_200 1H	7.86	281.40	282.87		283.02	0.007066	2.04	9.32	33.81	0.60
unico	83	Max WS	A TR_200 2H	7.60	281.40	282.85		283.00	0.007275	2.05	8.77	32.46	0.60
unico	83	Max WS	A TR_200 3H	4.35	281.40	282.81		282.88	0.002988	1.28	7.56	29.26	0.38
unico	83	Max WS	A TR_200 4H	4.34	281.40	282.81		282.88	0.002992	1.28	7.55	29.24	0.38
unico	83	Max WS	A TR_200 6H	4.34	281.40	282.81		282.88	0.002992	1.28	7.55	29.24	0.38
unico	83	Max WS	A TR_200 8H	3.90	281.40	282.80		282.85	0.002630	1.19	7.11	27.99	0.36
unico	83	Max WS	A TR_200 12H	3.10	281.40	282.75		282.80	0.002134	1.05	5.96	24.42	0.32
unico	83	Max WS	A TR_30 1H	3.98	281.40	282.80		282.86	0.002684	1.21	7.22	28.32	0.36
unico	83	Max WS	A TR_30 2H	3.99	281.40	282.80		282.86	0.002687	1.21	7.23	28.34	0.36
unico	83	Max WS	A TR_30 3H	3.50	281.40	282.78		282.83	0.002425	1.13	6.48	26.08	0.34
unico	83	Max WS	A TR_30 4H	3.09	281.40	282.75		282.80	0.002129	1.04	5.95	24.39	0.32
unico	83	Max WS	A TR_30 6H	2.50	281.40	282.72		282.76	0.001667	0.91	5.20	21.74	0.28
unico	83	Max WS	A TR_30 8H	2.10	281.40	282.68		282.71	0.001460	0.82	4.39	18.46	0.26
unico	83	Max WS	A TR_30 12H	1.60	281.40	282.52		282.56	0.001891	0.84	2.33	8.78	0.29
unico	82.5			Culvert									
unico	82	Max WS	A TR_200 1H	7.86	281.38	282.67	282.84	283.09	0.020178	3.07	4.43	17.85	0.98
unico	82	Max WS	A TR_200 2H	7.60	281.38	282.66	282.83	283.07	0.020096	3.04	4.22	16.89	0.97
unico	82	Max WS	A TR_200 3H	6.60	281.38	282.60	282.77	283.01	0.020378	2.94	3.36	13.40	0.97
unico	82	Max WS	A TR_200 4H	5.80	281.38	282.55	282.70	282.94	0.020446	2.84	2.73	10.93	0.96
unico	82	Max WS	A TR_200 6H	5.68	281.38	282.51	282.69	282.95	0.024545	3.00	2.29	8.75	1.05
unico	82	Max WS	A TR_200 8H	3.90	281.38	282.37	282.35	282.70	0.021704	2.52	1.55	2.33	0.96
unico	82	Max WS	A TR_200 12H	3.10	281.38	282.26	282.24	282.55	0.021165	2.35	1.32	2.06	0.94
unico	82	Max WS	A TR_30 1H	3.98	281.38	282.38	282.36	282.71	0.021621	2.53	1.58	2.78	0.96
unico	82	Max WS	A TR_30 2H	3.99	281.38	282.38	282.36	282.71	0.021623	2.53	1.58	2.81	0.96
unico	82	Max WS	A TR_30 3H	3.50	281.38	282.32	282.29	282.62	0.021450	2.44	1.44	2.13	0.95
unico	82	Max WS	A TR_30 4H	3.09	281.38	282.26	282.23	282.54	0.021172	2.35	1.32	2.06	0.94
unico	82	Max WS	A TR_30 6H	2.50	281.38	282.17	282.14	282.42	0.020758	2.21	1.13	1.94	0.93
unico	82	Max WS	A TR_30 8H	2.10	281.38	282.10	282.07	282.33	0.020453	2.11	1.00	1.85	0.92
unico	82	Max WS	A TR_30 12H	1.60	281.38	282.00	281.97	282.20	0.019951	1.95	0.82	1.73	0.90
unico	81	Max WS	A TR_200 1H	7.85	279.01	280.28	280.39	280.58	0.016459	2.48	4.61	28.34	0.98
unico	81	Max WS	A TR_200 2H	7.60	279.01	280.27	280.38	280.61	0.017938	2.58	2.95	4.58	1.02
unico	81	Max WS	A TR_200 3H	6.60	279.01	280.21	280.21	280.52	0.017309	2.45	2.69	4.37	1.00
unico	81	Max WS	A TR_200 4H	5.80	279.01	280.16	280.15	280.44	0.016924	2.36	2.46	4.18	0.98
unico	81	Max WS	A TR_200 6H	4.80	279.01	280.08	280.07	280.34	0.016912	2.25	2.14	3.88	0.97
unico	81	Max WS	A TR_200 8H	3.90	279.01	280.00	279.98	280.23	0.016771	2.13	1.83	3.59	0.95
unico	81	Max WS	A TR_200 12H	3.10	279.01	279.91	279.89	280.12	0.016717	2.01	1.54	3.28	0.93
unico	81	Max WS	A TR_30 1H	3.98	279.01	280.01	279.99	280.24	0.016804	2.14	1.86	3.62	0.95
unico	81	Max WS	A TR_30 2H	3.99	279.01	280.01	279.99	280.24	0.016805	2.14	1.86	3.62	0.95
unico	81	Max WS	A TR_30 3H	3.50	279.01	279.96	279.93	280.18	0.016666	2.07	1.69	3.44	0.94
unico	81	Max WS	A TR_30 4H	3.09	279.01	279.91	279.89	280.12	0.016730	2.01	1.54	3.28	0.93
unico	81	Max WS	A TR_30 6H	2.50	279.01	279.84	279.81	280.03	0.016602	1.90	1.32	3.02	0.92
unico	81	Max WS	A TR_30 8H	2.10	279.01	279.79	279.76	279.96	0.016491	1.81	1.16	2.82	0.90
unico	81	Max WS	A TR_30 12H	1.60	279.01	279.71	279.67	279.85	0.016529	1.70	0.94	2.53	0.89
unico	80	Max WS	A TR_200 1H	7.84	277.13	278.19	278.25	278.51	0.017992	2.53	3.39	9.21	1.07
unico	80	Max WS	A TR_200 2H	7.60	277.13	278.18	278.24	278.50	0.018106	2.51	3.28	8.91	1.07
unico	80	Max WS	A TR_200 3H	6.60	277.13	278.13	278.17	278.43	0.018751	2.43	2.83	7.57	1.07
unico	80	Max WS	A TR_200 4H	5.80	277.13	278.08	278.12	278.36	0.019405	2.36	2.50	6.40	1.08
unico	80	Max WS	A TR_200 6H	4.70	277.13	278.00	278.03	278.26	0.020717	2.25	2.08	4.82	1.09
unico	80	Max WS	A TR_200 8H	3.90	277.13	277.94	277.97	278.18	0.021049	2.16	1.80	4.48	1.09
unico	80	Max WS	A TR_200 12H	3.10	277.13	277.87	277.90	278.09	0.021572	2.06	1.50	4.09	1.09
unico	80	Max WS	A TR_30 1H	3.98	277.13	277.95	277.98	278.19	0.021010	2.17	1.83	4.52	1.09
unico	80	Max WS	A TR_30 2H	3.99	277.13	277.95	277.98	278.19	0.021041	2.18	1.83	4.52	1.09
unico	80	Max WS	A TR_30 3H	3.50	277.13	277.91	277.94	278.14	0.021361	2.12	1.65	4.29	1.09
unico	80	Max WS	A TR_30 4H	3.09	277.13	277.87	277.90	278.09	0.021598	2.06	1.50	4.08	1.09
unico	80	Max WS	A TR_30 6H	2.50	277.13	277.81	277.84	278.01	0.022141	1.97	1.27	3.75	1.08
unico	80	Max WS	A TR_30 8H	2.10	277.13	277.77	277.79	277.95	0.022405	1.90	1.11	3.50	1.08
unico	80	Max WS	A TR_30 12H	1.60	277.13	277.70	277.72	277.87	0.023166	1.80	0.89	3.14	1.08
unico	79	Max WS	A TR_200 1H	7.84	275.91	277.33	277.49	277.67	0.016602	2.61	3.63	22.94	0.98
unico	79	Max WS	A TR_200 2H	7.60	275.91	277.32	277.48	277.66	0.016608	2.59	3.37	19.72	0.98
unico	79	Max WS	A TR_200 3H	6.60	275.91	277.26	277.24	277.57	0.016379	2.47	2.67	4.43	0.96
unico	79	Max WS	A TR_200 4H	5.80	275.91	277.20	277.17	277.49	0.016119	2.38	2.44	3.78	0.94
unico	79	Max WS	A TR_200 6H	4.67	275.91	277.10	277.07	277.36	0.016051	2.25	2.08	3.49	0.93
unico	79	Max WS	A TR_200 8H	3.90	275.91	277.02	276.98	277.26	0.015962	2.15	1.82	3.26	0.92
unico	79	Max WS	A TR_200 12H	3.10	275.91	276.93	276.89	277.14	0.015885	2.02	1.53	2.99	0.90
unico	79	Max WS	A TR_30 1H	3.98	275.91	277.03	276.99	277.27	0.015952	2.16	1.85	3.29	0.92
unico	79	Max WS	A TR_30 2H	3.99	275.91	277.03	277.00	277.27	0.015988	2.16	1.85	3.29	0.92
unico	79	Max WS	A TR_30 3H	3.50	275.91	276.98	276.94	277.20	0.015828	2.08	1.68	3.13	0.91
unico	79	Max WS	A TR_30 4H	3.09	275.91	276.93	276.89	277.14	0.015884	2.02	1.53	2.99	0.90
unico	79	Max WS	A TR_30 6H	2.50	275.91	276.85	276.81	277.04	0.015750	1.91	1.31	2.76	0.89
unico	79	Max WS	A TR_30 8H	2.10	275.91	276.79	276.75	276.96	0.015688	1.83	1.15	2.59	0.87
unico	79	Max WS	A TR_30 12H	1.60	275.91	276.71	276.66	276.86	0.015672	1.71	0.94	2.33	0.86

HEC-RAS River: Lavatoi Reach: unico 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)	
unico	78	Max WS	A TR_200 1H	7.83	274.89	276.14	276.25	276.50	0.017949	2.65	3.33	11.32	1.04
unico	78	Max WS	A TR_200 2H	7.60	274.89	276.13	276.23	276.48	0.018172	2.64	3.17	10.45	1.05
unico	78	Max WS	A TR_200 3H	6.60	274.89	276.07	276.13	276.40	0.018545	2.55	2.64	6.84	1.05
unico	78	Max WS	A TR_200 4H	5.80	274.89	276.02	276.03	276.32	0.018077	2.43	2.39	4.16	1.02
unico	78	Max WS	A TR_200 6H	4.65	274.89	275.92	275.94	276.20	0.018780	2.33	1.99	3.80	1.03
unico	78	Max WS	A TR_200 8H	3.90	274.89	275.86	275.86	276.11	0.018569	2.22	1.76	3.57	1.01
unico	78	Max WS	A TR_200 12H	3.10	274.89	275.78	275.78	276.00	0.018550	2.10	1.48	3.28	1.00
unico	78	Max WS	A TR_30 1H	3.98	274.89	275.87	275.87	276.12	0.018297	2.22	1.79	3.61	1.00
unico	78	Max WS	A TR_30 2H	3.99	274.89	275.87	275.87	276.12	0.018640	2.24	1.78	3.60	1.01
unico	78	Max WS	A TR_30 3H	3.50	274.89	275.82	275.82	276.06	0.018551	2.16	1.62	3.43	1.00
unico	78	Max WS	A TR_30 4H	3.09	274.89	275.78	275.78	276.00	0.018555	2.09	1.47	3.27	1.00
unico	78	Max WS	A TR_30 6H	2.50	274.89	275.71	275.70	275.91	0.018522	1.98	1.26	3.02	0.98
unico	78	Max WS	A TR_30 8H	2.10	274.89	275.66	275.65	275.84	0.018288	1.89	1.11	2.84	0.97
unico	78	Max WS	A TR_30 12H	1.60	274.89	275.58	275.57	275.74	0.018377	1.77	0.90	2.56	0.95
unico	77	Max WS	A TR_200 1H	7.81	274.32	275.73	275.53	275.86	0.005594	1.63	6.13	21.23	0.61
unico	77	Max WS	A TR_200 2H	7.54	274.32	275.70	275.51	275.84	0.005986	1.65	5.62	19.14	0.63
unico	77	Max WS	A TR_200 3H	6.15	274.32	275.62	275.42	275.74	0.006320	1.58	4.22	12.75	0.63
unico	77	Max WS	A TR_200 4H	5.78	274.32	275.61	275.39	275.72	0.005831	1.51	4.11	12.19	0.61
unico	77	Max WS	A TR_200 6H	4.60	274.32	275.51	275.31	275.62	0.005908	1.41	3.26	6.29	0.60
unico	77	Max WS	A TR_200 8H	3.90	274.32	275.44	275.25	275.53	0.006278	1.38	2.82	5.40	0.61
unico	77	Max WS	A TR_200 12H	3.10	274.32	275.36	275.17	275.45	0.005791	1.27	2.44	5.02	0.58
unico	77	Max WS	A TR_30 1H	3.98	274.32	275.46	275.25	275.55	0.005841	1.35	2.94	5.51	0.59
unico	77	Max WS	A TR_30 2H	3.98	274.32	275.44	275.26	275.54	0.006382	1.40	2.85	5.42	0.62
unico	77	Max WS	A TR_30 3H	3.50	274.32	275.41	275.21	275.50	0.005846	1.31	2.67	5.25	0.59
unico	77	Max WS	A TR_30 4H	3.08	274.32	275.36	275.17	275.44	0.005800	1.27	2.43	5.01	0.58
unico	77	Max WS	A TR_30 6H	2.50	274.32	275.30	275.11	275.37	0.005418	1.17	2.13	4.68	0.55
unico	77	Max WS	A TR_30 8H	2.10	274.32	275.26	275.06	275.32	0.004755	1.07	1.97	4.49	0.52
unico	77	Max WS	A TR_30 12H	1.60	274.32	275.02	274.99	275.14	0.015393	1.55	1.03	3.21	0.88
unico	76	Max WS	A TR_200 1H	7.80	273.39	275.63	274.86	275.68	0.001389	1.16	15.53	43.54	0.29
unico	76	Max WS	A TR_200 2H	7.53	273.39	275.62	274.83	275.67	0.001347	1.14	15.12	42.88	0.29
unico	76	Max WS	A TR_200 3H	5.06	273.39	275.53	274.62	275.56	0.000881	0.89	11.63	36.77	0.23
unico	76	Max WS	A TR_200 4H	5.08	273.39	275.53	274.62	275.57	0.000882	0.89	11.67	36.84	0.23
unico	76	Max WS	A TR_200 6H	4.24	273.39	275.46	274.54	275.49	0.000842	0.84	9.04	31.48	0.22
unico	76	Max WS	A TR_200 8H	3.90	273.39	275.38	274.50	275.41	0.000969	0.87	6.80	26.03	0.24
unico	76	Max WS	A TR_200 12H	3.10	273.39	275.32	274.41	275.34	0.000759	0.74	5.39	19.87	0.21
unico	76	Max WS	A TR_30 1H	3.97	273.39	275.38	274.51	275.42	0.000992	0.88	6.90	26.29	0.24
unico	76	Max WS	A TR_30 2H	3.98	273.39	275.38	274.51	275.42	0.000995	0.88	6.90	26.31	0.24
unico	76	Max WS	A TR_30 3H	3.50	273.39	275.36	274.45	275.39	0.000841	0.80	6.30	24.65	0.22
unico	76	Max WS	A TR_30 4H	3.08	273.39	275.32	274.41	275.34	0.000755	0.74	5.36	19.63	0.21
unico	76	Max WS	A TR_30 6H	2.50	273.39	275.26	274.31	275.28	0.000590	0.64	4.48	12.30	0.18
unico	76	Max WS	A TR_30 8H	2.10	273.39	275.23	274.22	275.25	0.000452	0.55	4.19	8.51	0.16
unico	76	Max WS	A TR_30 12H	1.58	273.39	274.85	274.10	274.87	0.000833	0.60	2.71	3.32	0.20
unico	75.5			Bridge									
unico	75	Max WS	A TR_200 1H	11.10	273.57	275.09	275.16	275.60	0.020404	3.17	3.54	4.63	1.11
unico	75	Max WS	A TR_200 2H	9.95	273.57	275.05	275.09	275.50	0.018743	2.97	3.37	4.48	1.06
unico	75	Max WS	A TR_200 3H	6.75	273.57	274.93	274.87	275.22	0.014024	2.37	2.84	3.97	0.90
unico	75	Max WS	A TR_200 4H	6.82	273.57	274.92	274.87	275.22	0.014541	2.41	2.83	3.96	0.91
unico	75	Max WS	A TR_200 6H	5.03	273.57	274.80	274.71	275.03	0.012671	2.12	2.37	3.63	0.84
unico	75	Max WS	A TR_200 8H	3.90	273.57	274.69	274.60	274.89	0.012211	1.97	1.98	3.33	0.81
unico	75	Max WS	A TR_200 12H	3.10	273.57	274.60	274.50	274.77	0.012035	1.85	1.68	3.06	0.80
unico	75	Max WS	A TR_30 1H	3.97	273.57	274.70	274.61	274.90	0.012435	1.99	2.00	3.34	0.82
unico	75	Max WS	A TR_30 2H	3.98	273.57	274.70	274.61	274.90	0.012221	1.98	2.01	3.35	0.81
unico	75	Max WS	A TR_30 3H	3.50	273.57	274.65	274.55	274.83	0.012126	1.91	1.83	3.20	0.80
unico	75	Max WS	A TR_30 4H	3.08	273.57	274.59	274.50	274.77	0.012038	1.84	1.67	3.06	0.80
unico	75	Max WS	A TR_30 6H	2.50	273.57	274.51	274.42	274.67	0.011889	1.74	1.44	2.84	0.78
unico	75	Max WS	A TR_30 8H	2.10	273.57	274.45	274.36	274.59	0.011974	1.67	1.26	2.66	0.78
unico	75	Max WS	A TR_30 12H	1.64	273.57	274.37	274.28	274.49	0.011992	1.57	1.04	2.43	0.77
unico	74	Max WS	A TR_200 1H	7.79	272.87	274.13	274.16	274.33	0.010760	2.43	7.51	24.98	0.83
unico	74	Max WS	A TR_200 2H	7.62	272.87	274.13	274.15	274.32	0.009934	2.35	7.66	25.34	0.80
unico	74	Max WS	A TR_200 3H	6.60	272.87	274.08	274.10	274.27	0.010701	2.33	6.30	22.16	0.82
unico	74	Max WS	A TR_200 4H	6.31	272.87	274.06	274.09	274.26	0.011159	2.34	5.86	21.25	0.83
unico	74	Max WS	A TR_200 6H	4.74	272.87	273.95	274.00	274.17	0.012758	2.28	3.92	16.63	0.87
unico	74	Max WS	A TR_200 8H	3.90	272.87	273.90	273.94	274.11	0.013107	2.19	3.04	14.01	0.87
unico	74	Max WS	A TR_200 12H	3.10	272.87	273.83	273.87	274.03	0.013484	2.07	2.21	11.05	0.87
unico	74	Max WS	A TR_30 1H	3.97	272.87	273.90	273.95	274.11	0.013026	2.19	3.12	14.27	0.87
unico	74	Max WS	A TR_30 2H	3.98	272.87	273.90	273.95	274.11	0.013026	2.19	3.13	14.30	0.87
unico	74	Max WS	A TR_30 3H	3.50	272.87	273.86	273.91	274.07	0.013367	2.13	2.61	12.57	0.87
unico	74	Max WS	A TR_30 4H	3.08	272.87	273.83	273.86	274.03	0.013503	2.06	2.19	10.97	0.87
unico	74	Max WS	A TR_30 6H	2.50	272.87	273.77	273.79	273.96	0.014116	1.96	1.61	8.23	0.87
unico	74	Max WS	A TR_30 8H	2.10	272.87	273.72	273.70	273.89	0.014306	1.85	1.28	6.13	0.86
unico	74	Max WS	A TR_30 12H	1.64	272.87	273.65	273.61	273.80	0.014947	1.71	0.97	3.08	0.86
unico	73	Max WS	A TR_200 1H	7.79	272.60	273.81	273.91	274.15	0.018171	2.77	4.26	14.14	1.05
unico	73	Max WS	A TR_200 2H	7.56	272.60	273.79	273.89	274.14	0.018175	2.75	4.11	13.77	1.05
unico	73	Max WS	A TR_200 3H	6.60	272.60	273.75	273.84	274.08	0.017701	2.64	3.53	12.23	1.03
unico	73	Max WS	A TR_200 4H	6.25	272.60	273.73	273.82	274.05	0.018008	2.62	3.26	11.47	1.03
unico	73	Max WS	A TR_200 6H	4.70	272.60	273.63	273.70	273.92	0.017742	2.42	2.30	8.08	1.01
unico	73	Max WS	A TR_200 8H	3.90	272.60	273.56	273.60	273.83	0.017790	2.29	1.85	5.84	1.00
unico	73	Max WS	A TR_200 12H	3.10	272.60	273.49	273.49	273.72	0.017872	2.14	1.49	3.87	0.98
unico	73	Max WS	A TR_30 1H	3.97	272.60	273.57	273.61	273.84	0.017829	2.31	1.88	6.04	1.00
unico	73	Max WS	A TR_30 2H	3.98	272.60	273.57	273.61	273.84	0.017845	2.31	1.89	6.06	1.00
unico	73	Max WS	A TR_30 3H	3.50	272.60	273.53	273.53	273.78	0.017733	2.21	1.66	4.59	0.99
unico	73	Max WS	A TR_30 4H	3.08	272.60	273.49	273.49	273.72	0.017890	2.13	1.48	3.85	0.98
unico	73	Max WS	A TR_30 6H	2.50	272.60	273.42	273.41	273.62	0.018101	2.00	1.26	3.21	0.97
unico	73	Max WS	A TR_30 8H	2.10	272.60	273.37	273.36	273.55	0.018426	1.90	1.10	2.78	0.96

HEC-RAS River: Lavatoi Reach: unico 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)	
unico	73	Max WS	A TR_30 12H	1.64	272.60	273.30	273.28	273.46	0.018626	1.79	0.91	2.54	0.95
unico	72	Max WS	A TR_200 1H	7.78	271.58	272.87	272.80	272.98	0.007255	2.02	9.86	28.90	0.66
unico	72	Max WS	A TR_200 2H	7.51	271.58	272.87	272.80	272.98	0.006747	1.94	9.86	28.91	0.64
unico	72	Max WS	A TR_200 3H	6.60	271.58	272.83	272.76	272.93	0.006849	1.90	8.63	26.73	0.64
unico	72	Max WS	A TR_200 4H	6.09	271.58	272.80	272.73	272.90	0.006926	1.87	7.93	25.42	0.64
unico	72	Max WS	A TR_200 6H	4.67	271.58	272.72	272.65	272.82	0.007037	1.77	5.99	21.38	0.63
unico	72	Max WS	A TR_200 8H	3.90	271.58	272.67	272.60	272.77	0.007090	1.69	4.93	18.78	0.63
unico	72	Max WS	A TR_200 12H	3.10	271.58	272.60	272.53	272.70	0.007325	1.61	3.76	15.46	0.63
unico	72	Max WS	A TR_30 1H	3.97	271.58	272.66	272.60	272.77	0.007620	1.75	4.83	18.51	0.65
unico	72	Max WS	A TR_30 2H	3.98	271.58	272.67	272.60	272.77	0.007026	1.70	5.06	19.11	0.62
unico	72	Max WS	A TR_30 3H	3.50	271.58	272.63	272.57	272.73	0.007463	1.68	4.26	16.95	0.64
unico	72	Max WS	A TR_30 4H	3.08	271.58	272.59	272.53	272.69	0.007384	1.62	3.72	15.31	0.63
unico	72	Max WS	A TR_30 6H	2.48	271.58	272.52	272.47	272.63	0.008215	1.58	2.75	11.83	0.65
unico	72	Max WS	A TR_30 8H	2.10	271.58	272.46	272.42	272.57	0.009830	1.62	2.05	9.28	0.70
unico	72	Max WS	A TR_30 12H	1.63	271.58	272.37	272.33	272.50	0.011057	1.60	1.39	6.89	0.73
unico	71	Max WS	A TR_200 1H	7.78	271.29	272.64	272.69	272.86	0.011131	2.38	6.98	26.80	0.81
unico	71	Max WS	A TR_200 2H	7.51	271.29	272.64	272.67	272.84	0.010554	2.31	6.91	26.62	0.79
unico	71	Max WS	A TR_200 3H	6.60	271.29	272.59	272.63	272.80	0.010820	2.26	5.80	23.71	0.79
unico	71	Max WS	A TR_200 4H	6.00	271.29	272.56	272.60	272.77	0.011013	2.22	5.07	21.61	0.79
unico	71	Max WS	A TR_200 6H	4.66	271.29	272.48	272.50	272.68	0.011112	2.08	3.58	16.43	0.78
unico	71	Max WS	A TR_200 8H	3.90	271.29	272.43	272.42	272.61	0.011048	1.97	2.80	12.92	0.77
unico	71	Max WS	A TR_200 12H	3.10	271.29	272.35	272.26	272.52	0.011346	1.86	1.98	8.35	0.77
unico	71	Max WS	A TR_30 1H	3.96	271.29	272.43	272.43	272.62	0.010990	1.98	2.87	13.30	0.77
unico	71	Max WS	A TR_30 2H	3.97	271.29	272.43	272.43	272.62	0.011087	1.98	2.86	13.26	0.77
unico	71	Max WS	A TR_30 3H	3.50	271.29	272.39	272.36	272.57	0.011188	1.91	2.38	10.60	0.77
unico	71	Max WS	A TR_30 4H	3.08	271.29	272.35	272.26	272.52	0.011331	1.85	1.96	8.24	0.77
unico	71	Max WS	A TR_30 6H	2.50	271.29	272.27	272.17	272.43	0.011700	1.77	1.46	4.65	0.77
unico	71	Max WS	A TR_30 8H	2.10	271.29	272.20	272.10	272.35	0.012126	1.70	1.24	2.48	0.77
unico	71	Max WS	A TR_30 12H	1.63	271.29	272.10	272.02	272.24	0.012636	1.62	1.01	2.24	0.77
unico	70	Max WS	A TR_200 1H	7.78	271.14	272.51	272.57	272.75	0.012366	2.54	6.95	27.08	0.82
unico	70	Max WS	A TR_200 2H	7.51	271.14	272.50	272.56	272.73	0.012286	2.51	6.68	26.43	0.82
unico	70	Max WS	A TR_200 3H	6.60	271.14	272.45	272.52	272.69	0.012405	2.45	5.64	23.72	0.82
unico	70	Max WS	A TR_200 4H	5.98	271.14	272.43	272.49	272.66	0.012136	2.38	5.02	21.97	0.81
unico	70	Max WS	A TR_200 6H	4.65	271.14	272.36	272.40	272.57	0.011548	2.19	3.64	17.42	0.78
unico	70	Max WS	A TR_200 8H	3.90	271.14	272.31	272.33	272.51	0.011242	2.07	2.82	14.07	0.76
unico	70	Max WS	A TR_200 12H	3.10	271.14	272.23	272.11	272.42	0.011325	1.94	1.93	9.05	0.75
unico	70	Max WS	A TR_30 1H	3.96	271.14	272.31	272.33	272.51	0.011050	2.07	2.93	14.58	0.75
unico	70	Max WS	A TR_30 2H	3.97	271.14	272.31	272.34	272.52	0.011294	2.09	2.89	14.40	0.76
unico	70	Max WS	A TR_30 3H	3.50	271.14	272.27	272.26	272.47	0.011025	1.99	2.40	11.97	0.74
unico	70	Max WS	A TR_30 4H	3.08	271.14	272.23	272.11	272.41	0.011327	1.93	1.90	8.87	0.75
unico	70	Max WS	A TR_30 6H	2.50	271.14	272.14	272.02	272.31	0.011964	1.82	1.39	3.52	0.75
unico	70	Max WS	A TR_30 8H	2.10	271.14	272.05	271.95	272.22	0.013469	1.81	1.16	2.15	0.78
unico	70	Max WS	A TR_30 12H	1.63	271.14	271.96	271.86	272.10	0.013005	1.68	0.97	1.98	0.76
unico	69	Max WS	A TR_200 1H	5.12	270.83	272.18		272.29	0.004630	1.57	4.85	12.24	0.51
unico	69	Max WS	A TR_200 2H	5.12	270.83	272.18		272.29	0.004627	1.57	4.85	12.23	0.51
unico	69	Max WS	A TR_200 3H	5.11	270.83	272.18		272.29	0.004622	1.57	4.85	12.23	0.51
unico	69	Max WS	A TR_200 4H	5.11	270.83	272.18		272.29	0.004619	1.57	4.85	12.23	0.51
unico	69	Max WS	A TR_200 6H	4.65	270.83	272.15		272.25	0.004294	1.48	4.54	11.67	0.49
unico	69	Max WS	A TR_200 8H	3.90	270.83	272.11		272.19	0.003658	1.33	4.08	10.77	0.45
unico	69	Max WS	A TR_200 12H	3.10	270.83	272.06		272.12	0.002951	1.15	3.55	9.65	0.40
unico	69	Max WS	A TR_30 1H	3.96	270.83	272.11		272.20	0.003716	1.34	4.11	10.85	0.45
unico	69	Max WS	A TR_30 2H	3.97	270.83	272.11		272.20	0.003724	1.34	4.12	10.86	0.45
unico	69	Max WS	A TR_30 3H	3.50	270.83	272.09		272.16	0.003267	1.23	3.84	10.29	0.42
unico	69	Max WS	A TR_30 4H	3.07	270.83	272.05		272.12	0.002942	1.14	3.52	9.59	0.40
unico	69	Max WS	A TR_30 6H	2.50	270.83	271.99		272.05	0.002609	1.02	2.99	8.29	0.37
unico	69	Max WS	A TR_30 8H	2.10	270.83	271.95		272.00	0.002270	0.92	2.66	7.39	0.34
unico	69	Max WS	A TR_30 12H	1.63	270.83	271.86		271.90	0.002193	0.83	2.08	5.39	0.33
unico	68.5			Culvert									
unico	67	Max WS	A TR_200 1H	7.78	269.20	270.52	270.42	270.83	0.013114	2.48	3.13	3.68	0.86
unico	67	Max WS	A TR_200 2H	7.51	269.20	270.50	270.39	270.80	0.013079	2.46	3.06	3.64	0.86
unico	67	Max WS	A TR_200 3H	6.60	269.20	270.42	270.32	270.70	0.012990	2.37	2.78	3.49	0.85
unico	67	Max WS	A TR_200 4H	5.96	269.20	270.36	270.26	270.63	0.012988	2.31	2.58	3.38	0.85
unico	67	Max WS	A TR_200 6H	4.65	269.20	270.23	270.13	270.47	0.012824	2.16	2.15	3.13	0.83
unico	67	Max WS	A TR_200 8H	3.90	269.20	270.14	270.05	270.36	0.012792	2.06	1.89	2.96	0.82
unico	67	Max WS	A TR_200 12H	3.10	269.20	270.04	269.96	270.23	0.012738	1.94	1.60	2.77	0.82
unico	67	Max WS	A TR_30 1H	3.96	269.20	270.15	270.06	270.37	0.012815	2.07	1.91	2.98	0.83
unico	67	Max WS	A TR_30 2H	3.97	269.20	270.15	270.06	270.37	0.012813	2.07	1.92	2.98	0.83
unico	67	Max WS	A TR_30 3H	3.50	269.20	270.09	270.00	270.30	0.012778	2.00	1.74	2.87	0.82
unico	67	Max WS	A TR_30 4H	3.07	269.20	270.04	269.95	270.23	0.012730	1.94	1.59	2.76	0.81
unico	67	Max WS	A TR_30 6H	2.50	269.20	269.95	269.87	270.12	0.012735	1.83	1.36	2.60	0.81
unico	67	Max WS	A TR_30 8H	2.10	269.20	269.89	269.81	270.04	0.012741	1.75	1.20	2.48	0.80
unico	67	Max WS	A TR_30 12H	1.63	269.20	269.80	269.73	269.94	0.012755	1.63	1.00	2.32	0.79
unico	66	Max WS	A TR_200 1H	7.78	268.05	269.50	269.47	269.84	0.015654	2.57	3.03	4.00	0.94
unico	66	Max WS	A TR_200 2H	7.51	268.05	269.48	269.44	269.81	0.015725	2.55	2.95	3.95	0.94
unico	66	Max WS	A TR_200 3H	6.60	268.05	269.41	269.37	269.72	0.015897	2.48	2.66	3.75	0.94
unico	66	Max WS	A TR_200 4H	5.95	268.05	269.35	269.31	269.65	0.016028	2.42	2.46	3.60	0.94
unico	66	Max WS	A TR_200 6H	4.64	268.05	269.23	269.19	269.49	0.016249	2.29	2.03	3.28	0.93
unico	66	Max WS	A TR_200 8H	3.90	268.05	269.15	269.11	269.39	0.016394	2.20	1.77	3.07	0.92
unico	66	Max WS	A TR_200 12H	3.10	268.05	269.05	269.01	269.27	0.016555	2.09	1.49	2.81	0.91
unico	66	Max WS	A TR_30 1H	3.96	268.05	269.15	269.12	269.40	0.016352	2.21	1.80	3.08	0.92
unico	66	Max WS	A TR_30 2H	3.97	268.05	269.16	269.12	269.40	0.016368	2.21	1.80	3.09	0.92
unico	66	Max WS	A TR_30 3H	3.50	268.05	269.10	269.06	269.33	0.016389	2.14	1.63	2.94	0.92
unico	66	Max WS	A TR_30 4H	3.07	268.05	269.05	269.01	269.27	0.016557	2.08	1.48	2.80	0.91
unico	66	Max WS	A TR_30 6H	2.50	268.05	268.97	268.93	269.17	0.016664	1.98	1.26	2.59	0.91

HEC-RAS River: Lavatoi Reach: unico 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)	
unico	66	Max WS	A TR_30 8H	2.10	268.05	268.90	268.87	269.09	0.016653	1.90	1.11	2.43	0.90
unico	66	Max WS	A TR_30 12H	1.63	268.05	268.82	268.78	268.98	0.016891	1.79	0.91	2.20	0.89
unico	65	Max WS	A TR_200 1H	7.78	266.51	268.16	268.08	268.52	0.016037	2.65	2.94	3.41	0.89
unico	65	Max WS	A TR_200 2H	7.51	266.51	268.12	268.06	268.48	0.017202	2.68	2.80	3.21	0.92
unico	65	Max WS	A TR_200 3H	6.60	266.51	268.04	267.98	268.38	0.016982	2.59	2.55	3.06	0.91
unico	65	Max WS	A TR_200 4H	5.93	266.51	267.99	267.90	268.30	0.016211	2.48	2.39	2.97	0.88
unico	65	Max WS	A TR_200 6H	4.63	266.51	267.76	267.77	268.11	0.022523	2.64	1.75	2.55	1.02
unico	65	Max WS	A TR_200 8H	3.90	266.51	267.65	267.67	268.00	0.024702	2.62	1.49	2.35	1.05
unico	65	Max WS	A TR_200 12H	3.10	266.51	267.53	267.56	267.86	0.026426	2.54	1.22	2.13	1.07
unico	65	Max WS	A TR_30 1H	3.96	266.51	267.66	267.68	268.01	0.023917	2.60	1.52	2.38	1.04
unico	65	Max WS	A TR_30 2H	3.97	266.51	267.66	267.68	268.01	0.024577	2.63	1.51	2.37	1.05
unico	65	Max WS	A TR_30 3H	3.50	266.51	267.58	267.62	267.93	0.026175	2.61	1.34	2.23	1.08
unico	65	Max WS	A TR_30 4H	3.07	266.51	267.52	267.55	267.85	0.026416	2.54	1.21	2.12	1.07
unico	65	Max WS	A TR_30 6H	2.50	266.51	267.44	267.46	267.73	0.026415	2.41	1.04	1.97	1.06
unico	65	Max WS	A TR_30 8H	2.10	266.51	267.37	267.39	267.64	0.026353	2.31	0.91	1.85	1.05
unico	65	Max WS	A TR_30 12H	1.63	266.51	267.28	267.29	267.52	0.026230	2.17	0.75	1.68	1.04
unico	64	Max WS	A TR_200 1H	5.41	265.05	267.82	266.50	268.01	0.001226	1.96	2.75	6.73	0.38
unico	64	Max WS	A TR_200 2H	5.40	265.05	267.81	266.50	268.01	0.001228	1.96	2.75	6.73	0.38
unico	64	Max WS	A TR_200 3H	5.40	265.05	267.81	266.50	268.01	0.001229	1.96	2.75	6.73	0.38
unico	64	Max WS	A TR_200 4H	5.41	265.05	267.82	266.50	268.01	0.001227	1.96	2.75	6.73	0.38
unico	64	Max WS	A TR_200 6H	4.63	265.05	267.36	266.36	267.56	0.001646	2.01	2.30	4.99	0.42
unico	64	Max WS	A TR_200 8H	3.90	265.05	267.10	266.22	267.29	0.001744	1.92	2.04	4.57	0.43
unico	64	Max WS	A TR_200 12H	3.10	265.05	266.38	266.06	266.66	0.004649	2.34	1.32	3.41	0.65
unico	64	Max WS	A TR_30 1H	3.95	265.05	267.11	266.23	267.30	0.001752	1.93	2.05	4.59	0.43
unico	64	Max WS	A TR_30 2H	3.97	265.05	267.12	266.23	267.31	0.001754	1.93	2.05	4.59	0.43
unico	64	Max WS	A TR_30 3H	3.48	265.05	266.72	266.14	266.94	0.002783	2.11	1.65	3.95	0.52
unico	64	Max WS	A TR_30 4H	3.07	265.05	266.38	266.05	266.66	0.004647	2.34	1.32	3.40	0.65
unico	64	Max WS	A TR_30 6H	2.50	265.05	266.22	265.92	266.46	0.004648	2.15	1.16	3.15	0.64
unico	64	Max WS	A TR_30 8H	2.10	265.05	266.11	265.83	266.31	0.004631	2.00	1.05	2.97	0.62
unico	64	Max WS	A TR_30 12H	1.62	265.05	265.96	265.71	266.13	0.004590	1.80	0.90	2.73	0.61
unico	63.5			Bridge									
unico	63	Max WS	A TR_200 1H	7.78	265.02	266.40	266.86	268.03	0.034451	5.65	1.38	3.57	1.54
unico	63	Max WS	A TR_200 2H	7.50	265.02	266.38	266.82	267.95	0.033995	5.55	1.35	3.51	1.52
unico	63	Max WS	A TR_200 3H	6.60	265.02	266.30	266.67	267.66	0.031833	5.17	1.28	3.34	1.46
unico	63	Max WS	A TR_200 4H	5.92	265.02	266.24	266.55	267.45	0.030322	4.88	1.21	3.19	1.41
unico	63	Max WS	A TR_200 6H	4.63	265.02	266.10	266.32	267.04	0.027939	4.31	1.07	2.86	1.33
unico	63	Max WS	A TR_200 8H	3.90	265.02	266.02	266.18	266.81	0.025913	3.94	0.99	2.23	1.26
unico	63	Max WS	A TR_200 12H	3.10	265.02	265.91	266.02	266.53	0.023500	3.49	0.89	2.13	1.18
unico	63	Max WS	A TR_30 1H	3.95	265.02	266.02	266.19	266.82	0.026086	3.96	1.00	2.24	1.27
unico	63	Max WS	A TR_30 2H	3.97	265.02	266.02	266.20	266.83	0.026115	3.97	1.00	2.69	1.27
unico	63	Max WS	A TR_30 3H	3.48	265.02	265.96	266.10	266.67	0.024704	3.71	0.94	2.18	1.22
unico	63	Max WS	A TR_30 4H	3.07	265.02	265.91	266.01	266.52	0.023397	3.47	0.89	2.13	1.18
unico	63	Max WS	A TR_30 6H	2.50	265.02	265.82	265.89	266.32	0.022521	3.16	0.79	2.03	1.13
unico	63	Max WS	A TR_30 8H	2.10	265.02	265.74	265.79	266.18	0.022198	2.93	0.72	1.96	1.11
unico	63	Max WS	A TR_30 12H	1.62	265.02	265.65	265.67	265.99	0.021196	2.61	0.62	1.87	1.06
unico	62	Max WS	A TR_200 1H	7.78	264.21	265.68	265.43	265.91	0.008126	2.12	3.79	4.56	0.68
unico	62	Max WS	A TR_200 2H	7.29	264.21	265.71	265.39	265.90	0.006496	1.93	3.94	4.66	0.61
unico	62	Max WS	A TR_200 3H	6.43	264.21	265.68	265.32	265.83	0.005526	1.75	3.80	4.57	0.56
unico	62	Max WS	A TR_200 4H	5.91	264.21	265.64	265.27	265.78	0.005245	1.68	3.63	4.45	0.55
unico	62	Max WS	A TR_200 6H	4.59	264.21	265.19	265.14	265.46	0.015423	2.30	2.00	2.98	0.89
unico	62	Max WS	A TR_200 8H	3.90	264.21	265.03	265.06	265.36	0.022131	2.52	1.55	2.69	1.06
unico	62	Max WS	A TR_200 12H	3.10	264.21	264.92	264.96	265.23	0.025182	2.48	1.25	2.48	1.12
unico	62	Max WS	A TR_30 1H	3.95	264.21	265.04	265.07	265.36	0.021792	2.51	1.57	2.71	1.05
unico	62	Max WS	A TR_30 2H	3.96	264.21	265.05	265.07	265.36	0.021445	2.50	1.59	2.72	1.04
unico	62	Max WS	A TR_30 3H	3.48	264.21	264.97	265.01	265.29	0.023885	2.51	1.39	2.58	1.09
unico	62	Max WS	A TR_30 4H	3.07	264.21	264.91	264.95	265.23	0.025307	2.48	1.24	2.47	1.12
unico	62	Max WS	A TR_30 6H	2.50	264.21	264.83	264.88	265.12	0.026482	2.39	1.05	2.33	1.14
unico	62	Max WS	A TR_30 8H	2.10	264.21	264.78	264.82	265.04	0.026967	2.29	0.92	2.23	1.14
unico	62	Max WS	A TR_30 12H	1.62	264.21	264.70	264.74	264.94	0.027483	2.14	0.76	2.09	1.14
unico	61.9			Lat Struct									
unico	61	Max WS	A TR_200 1H	7.01	263.07	265.42		265.66	0.013956	2.27	3.63	3.59	0.48
unico	61	Max WS	A TR_200 2H	5.35	263.07	265.55		265.66	0.006346	1.59	4.32	7.72	0.32
unico	61	Max WS	A TR_200 3H	5.37	263.07	265.54		265.66	0.006402	1.59	4.31	7.68	0.33
unico	61	Max WS	A TR_200 4H	5.41	263.07	265.51		265.63	0.007038	1.65	4.05	6.43	0.34
unico	61	Max WS	A TR_200 6H	4.59	263.07	264.88		265.11	0.014855	2.12	2.25	1.93	0.51
unico	61	Max WS	A TR_200 8H	3.90	263.07	264.44		264.74	0.022825	2.42	1.61	1.20	0.66
unico	61	Max WS	A TR_200 12H	3.10	263.07	264.20		264.48	0.023200	2.33	1.33	1.20	0.71
unico	61	Max WS	A TR_30 1H	3.95	263.07	264.47		264.76	0.021995	2.38	1.66	1.20	0.65
unico	61	Max WS	A TR_30 2H	3.96	263.07	264.49		264.77	0.021703	2.37	1.67	1.20	0.64
unico	61	Max WS	A TR_30 3H	3.48	263.07	264.30		264.59	0.023784	2.41	1.45	1.20	0.70
unico	61	Max WS	A TR_30 4H	3.07	263.07	264.19		264.47	0.023176	2.33	1.32	1.20	0.71
unico	61	Max WS	A TR_30 6H	2.50	263.07	264.04		264.29	0.022348	2.21	1.13	1.20	0.72
unico	61	Max WS	A TR_30 8H	2.10	263.07	263.93		264.15	0.021466	2.09	1.00	1.20	0.73
unico	61	Max WS	A TR_30 12H	1.62	263.07	263.79		263.98	0.020488	1.94	0.84	1.19	0.74
unico	60.9			Culvert									
unico	60.6714	Max WS	A TR_200 1H	4.75	261.54	264.26	262.71	264.37	0.000067	1.45	3.27	4.00	0.28
unico	60.6714	Max WS	A TR_200 2H	5.27	261.54	265.12	262.78	265.20	0.000033	1.22	4.30	4.00	0.21
unico	60.6714	Max WS	A TR_200 3H	5.65	261.54	265.12	262.85	265.21	0.000038	1.31	4.30	4.00	0.22
unico	60.6714	Max WS	A TR_200 4H	5.66	261.54	264.94	262.85	265.04	0.000045	1.39	4.08	4.00	0.24
unico	60.6714	Max WS	A TR_200 6H	4.58	261.54	264.41	262.68	264.50	0.000052	1.33	3.45	4.00	0.25
unico	60.6714	Max WS	A TR_200 8H	3.89	261.54	264.12	262.56	264.20	0.000054	1.25	3.10	4.00	0.25
unico	60.6714	Max WS	A TR_200 12H	3.10	261.54	263.74	262.41	263.81	0.000058	1.17	2.65	4.00	0.25

HEC-RAS River: Lavatoi Reach: unico 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)	
unico	60.6714	Max WS	A TR_30 1H	1.83	261.54	263.16	262.15	263.20	0.000056	0.94	1.94	4.00	0.24
unico	60.6714	Max WS	A TR_30 2H	3.31	261.54	263.53	262.45	263.62	0.000093	1.38	2.39	4.00	0.31
unico	60.6714	Max WS	A TR_30 3H	2.99	261.54	263.56	262.39	263.64	0.000071	1.23	2.43	4.00	0.28
unico	60.6714	Max WS	A TR_30 4H	2.82	261.54	263.51	262.36	263.58	0.000069	1.19	2.37	4.00	0.27
unico	60.6714	Max WS	A TR_30 6H	2.39	261.54	263.33	262.27	263.39	0.000069	1.11	2.15	4.00	0.26
unico	60.6714	Max WS	A TR_30 8H	2.08	261.54	263.17	262.20	263.23	0.000070	1.06	1.96	4.00	0.26
unico	60.6714	Max WS	A TR_30 12H	1.60	261.54	262.95	262.10	262.99	0.000068	0.94	1.69	4.00	0.25
unico	60.5571	Max WS	A TR_200 1H	5.01	261.53	264.33	262.08	264.34	0.000020	0.45	11.18	4.00	0.09
unico	60.5571	Max WS	A TR_200 2H	7.49	261.53	265.20	262.25	265.22	0.000022	0.51	14.68	4.00	0.09
unico	60.5571	Max WS	A TR_200 3H	5.65	261.53	265.17	262.12	265.18	0.000013	0.39	14.56	4.00	0.06
unico	60.5571	Max WS	A TR_200 4H	5.71	261.53	265.00	262.13	265.01	0.000015	0.41	13.87	4.00	0.07
unico	60.5571	Max WS	A TR_200 6H	4.58	261.53	264.47	262.04	264.47	0.000015	0.39	11.73	4.00	0.07
unico	60.5571	Max WS	A TR_200 8H	3.89	261.53	264.17	261.99	264.18	0.000014	0.37	10.56	4.00	0.07
unico	60.5571	Max WS	A TR_200 12H	3.10	261.53	263.79	261.93	263.79	0.000013	0.34	9.01	4.00	0.07
unico	60.5571	Max WS	A TR_30 1H	1.87	261.53	263.18	261.82	263.19	0.000011	0.28	6.60	4.00	0.07
unico	60.5571	Max WS	A TR_30 2H	3.34	261.53	263.59	261.95	263.60	0.000020	0.41	8.22	4.00	0.09
unico	60.5571	Max WS	A TR_30 3H	3.30	261.53	263.62	261.95	263.63	0.000018	0.40	8.35	4.00	0.09
unico	60.5571	Max WS	A TR_30 4H	2.90	261.53	263.56	261.91	263.56	0.000015	0.36	8.09	4.00	0.08
unico	60.5571	Max WS	A TR_30 6H	2.42	261.53	263.37	261.87	263.37	0.000014	0.33	7.33	4.00	0.08
unico	60.5571	Max WS	A TR_30 8H	2.09	261.53	263.21	261.84	263.21	0.000013	0.31	6.69	4.00	0.08
unico	60.5571	Max WS	A TR_30 12H	1.60	261.53	262.98	261.79	262.98	0.000012	0.28	5.77	4.00	0.07

HEC-RAS River: Lavatoi Reach: unico Profile: Max WS

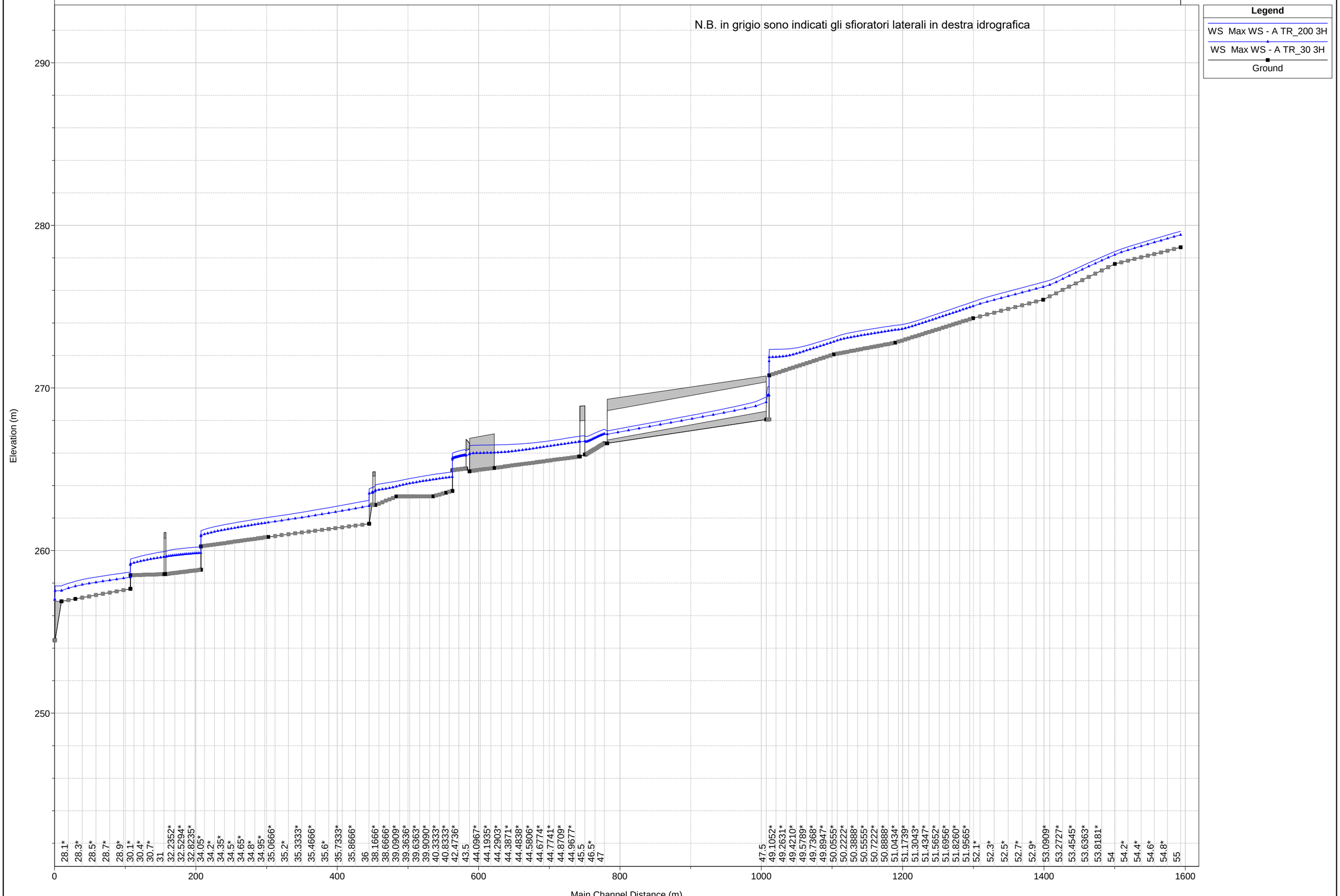
Reach	River Sta	Profile	Plan	Q US	Q Leaving Total	Q DS	Q Weir	Q Gates	Wr Top Wdth	Weir Max Depth	Weir Avg Depth	Min El Weir Flow	E.G. US.	W.S. US.	E.G. DS	W.S. DS
				(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
unico	61.9	Max WS	A TR_200 1H	7.78	0.00	7.01	0.00					265.52	265.90	265.68	265.67	265.42
unico	61.9	Max WS	A TR_200 2H	7.29	0.00	5.35	0.00		0.61	0.03	0.01	265.52	265.90	265.71	265.66	265.55
unico	61.9	Max WS	A TR_200 3H	6.43	0.00	5.37	0.00		0.56	0.02	0.01	265.52	265.83	265.68	265.66	265.54
unico	61.9	Max WS	A TR_200 4H	5.91	0.00	5.41	0.00					265.52	265.78	265.64	265.63	265.51
unico	61.9	Max WS	A TR_200 6H	4.59	0.00	4.59	0.00					265.52	265.46	265.19	265.11	264.89
unico	61.9	Max WS	A TR_200 8H	3.90	0.00	3.90	0.00					265.52	265.35	265.03	264.74	264.44
unico	61.9	Max WS	A TR_200 12H	3.10	0.00	3.10	0.00					265.52	265.23	264.91	264.48	264.20
unico	61.9	Max WS	A TR_30 1H	3.95	0.00	3.95	0.00					265.52	265.36	265.04	264.76	264.48
unico	61.9	Max WS	A TR_30 2H	3.96	0.00	3.96	0.00					265.52	265.36	265.04	264.77	264.49
unico	61.9	Max WS	A TR_30 3H	3.48	0.00	3.48	0.00					265.52	265.29	264.97	264.60	264.30
unico	61.9	Max WS	A TR_30 4H	3.07	0.00	3.07	0.00					265.52	265.22	264.91	264.47	264.20
unico	61.9	Max WS	A TR_30 6H	2.50	0.00	2.50	0.00					265.52	265.12	264.83	264.29	264.04
unico	61.9	Max WS	A TR_30 8H	2.10	0.00	2.10	0.00					265.52	265.04	264.77	264.15	263.93
unico	61.9	Max WS	A TR_30 12H	1.62	0.00	1.62	0.00					265.52	264.93	264.70	263.98	263.79

FOSSO MARAMOCCO

1) A TR_200 3H 2) A TR_30 3H

Maramocco unico

N.B. in grigio sono indicati gli sfioratori laterali in destra idrografica



1 cm Horiz. = 46 m 1 cm Vert. = 2 m

1) A TR_200 3H 2) A TR_30 3H

Maramocco unico

N.B. in grigio sono indicati gli sfioratori laterali in sinistra idrografica

Legend

- WS Max WS - A TR_200 3H
- WS Max WS - A TR_30 3H
- Ground

Elevation (m)

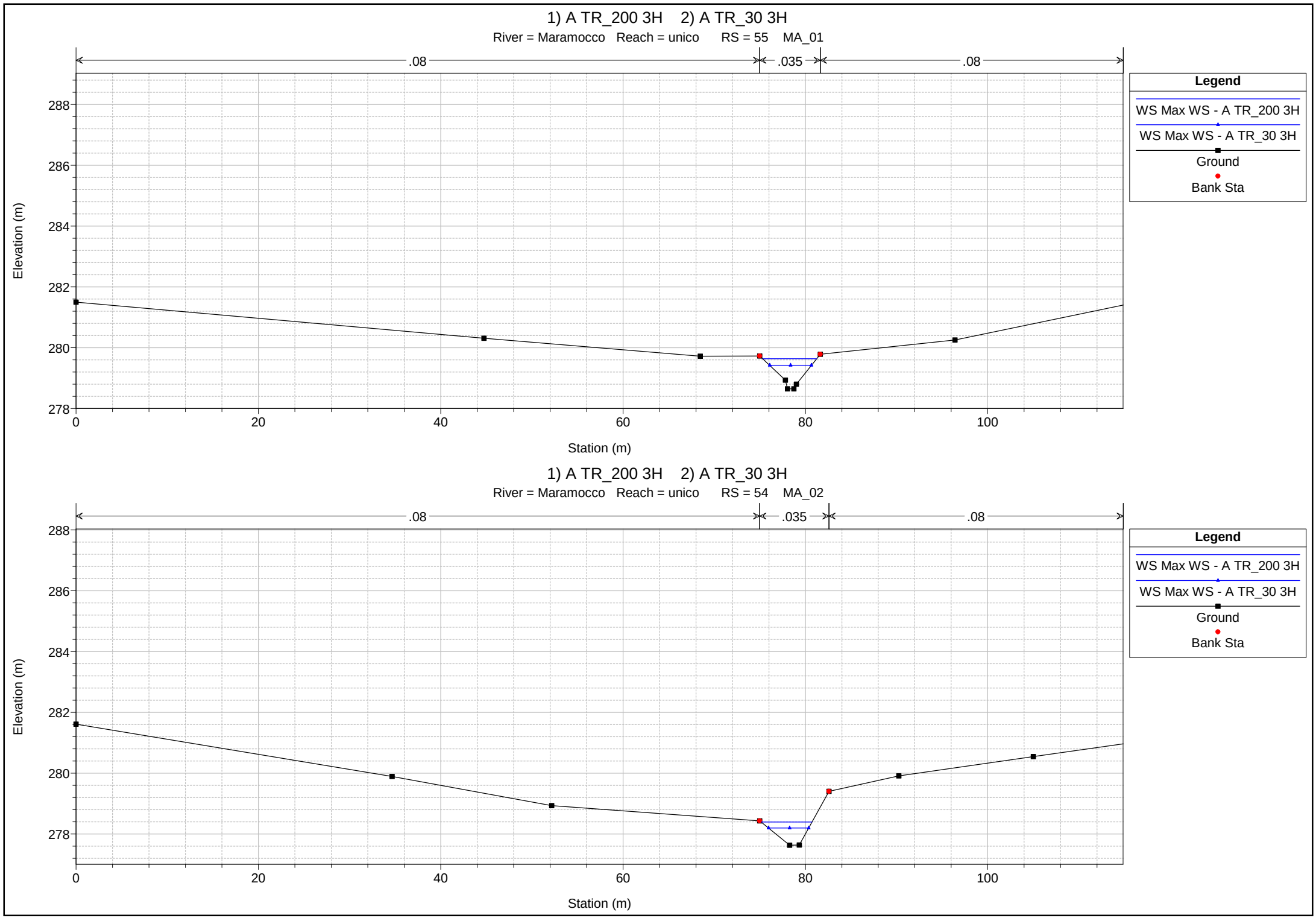
290
280
270
260
250

28.1* 28.3* 28.5* 28.7* 28.9* 30.1* 30.4* 30.7* 31 32.2352* 32.5294* 32.8235* 34.05* 34.2* 34.35* 34.5* 34.65* 34.8* 34.95* 35.0666* 35.2* 35.3333* 35.4666* 35.6* 35.7333* 35.8666* 36 38.1666* 38.6666* 39.0909* 39.3636* 39.6363* 39.9090* 40.3333* 40.8333* 42.4736* 43.5 44.0967* 44.1935* 44.2903* 44.3871* 44.4838* 44.5806* 44.6774* 44.7741* 44.8709* 44.9677* 45.5 46.5* 47 47.5 49.1052* 49.2631* 49.4210* 49.5789* 49.7368* 49.8947* 50.0555* 50.2222* 50.3888* 50.5555* 50.7222* 50.8888* 51.0434* 51.1739* 51.3043* 51.4347* 51.5652* 51.6956* 51.8260* 51.9565* 52.1* 52.3* 52.5* 52.7* 52.9* 53.0909* 53.2727* 53.4545* 53.6363* 53.8181* 54 54.2* 54.4* 54.6* 54.8* 55

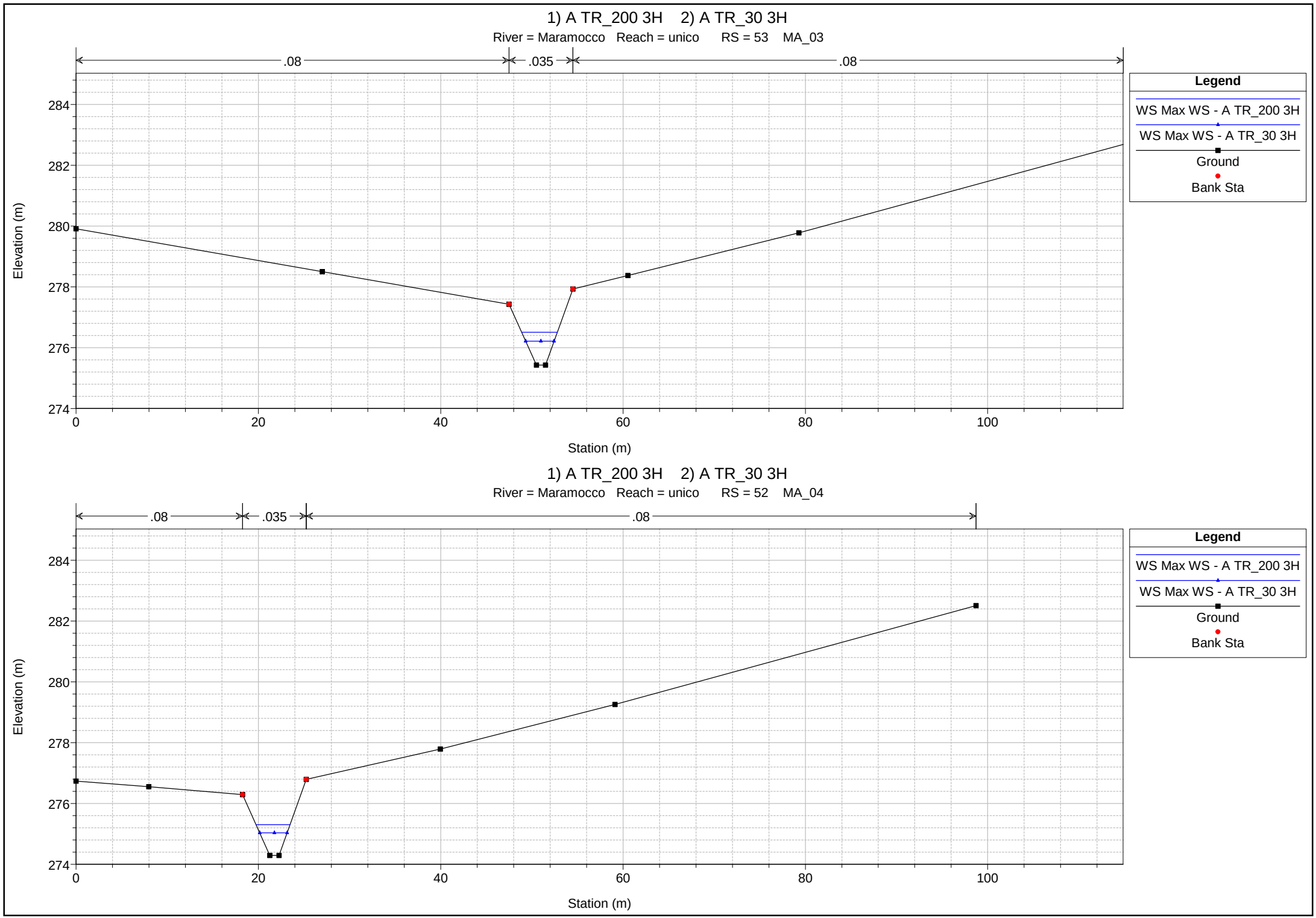
0 200 400 600 800 1000 1200 1400 1600

Main Channel Distance (m)

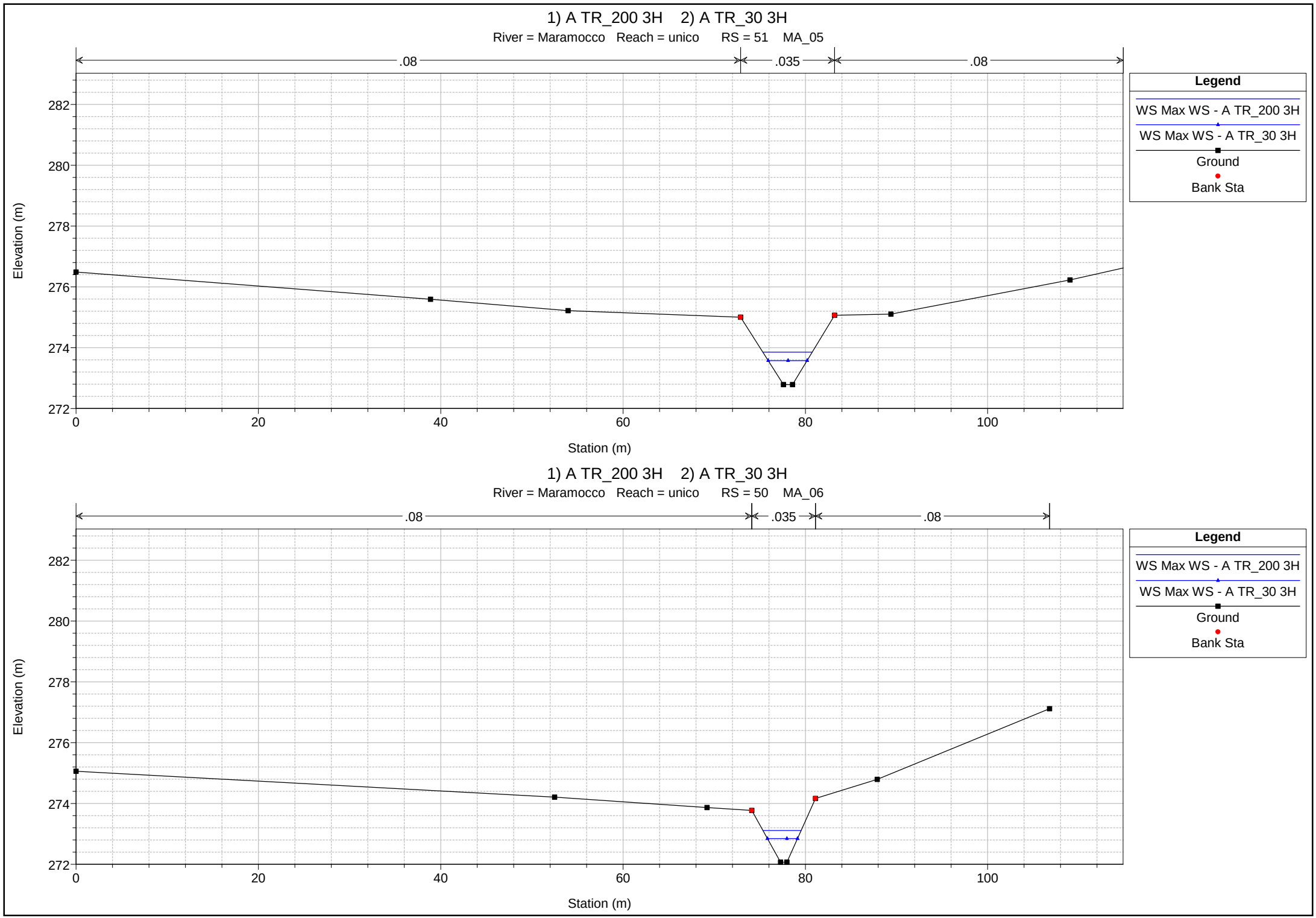
1 cm Horiz. = 46 m 1 cm Vert. = 2 m



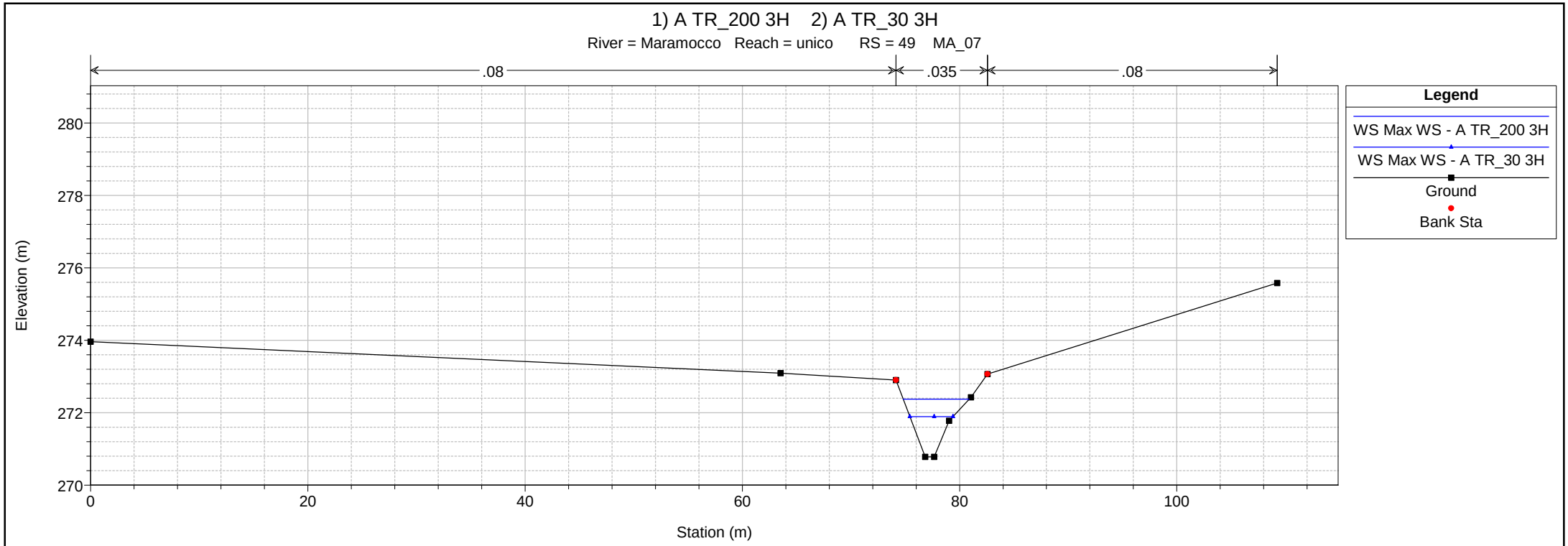
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

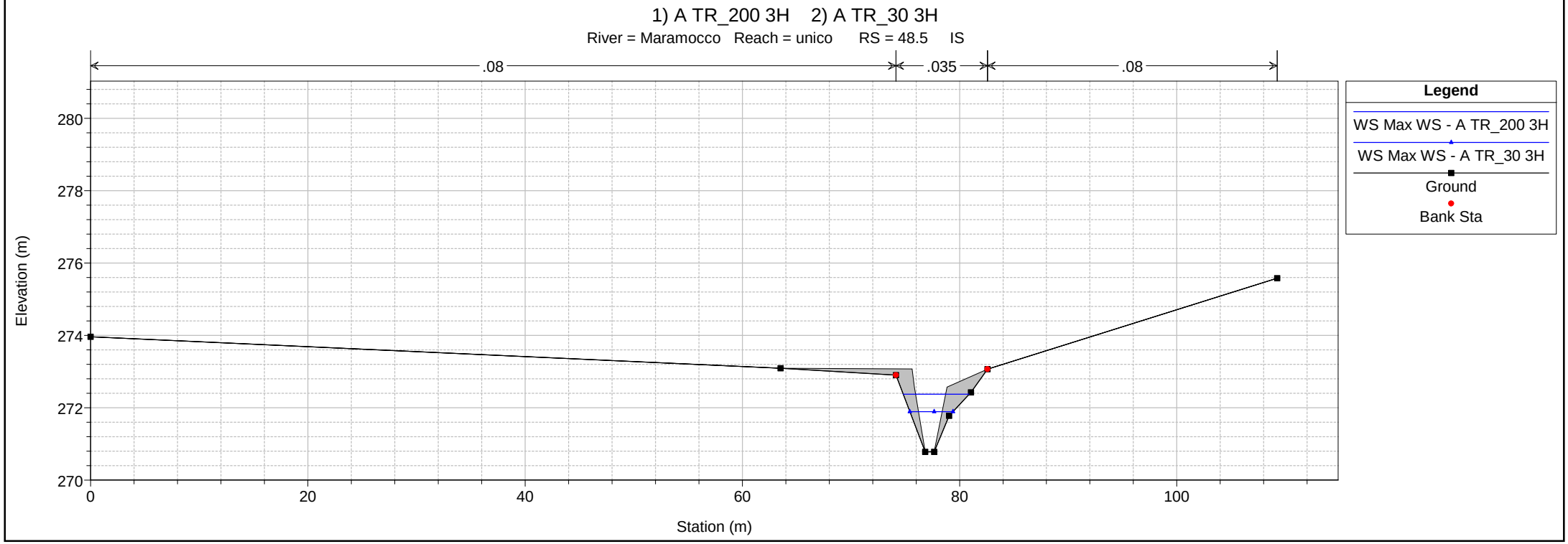


1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

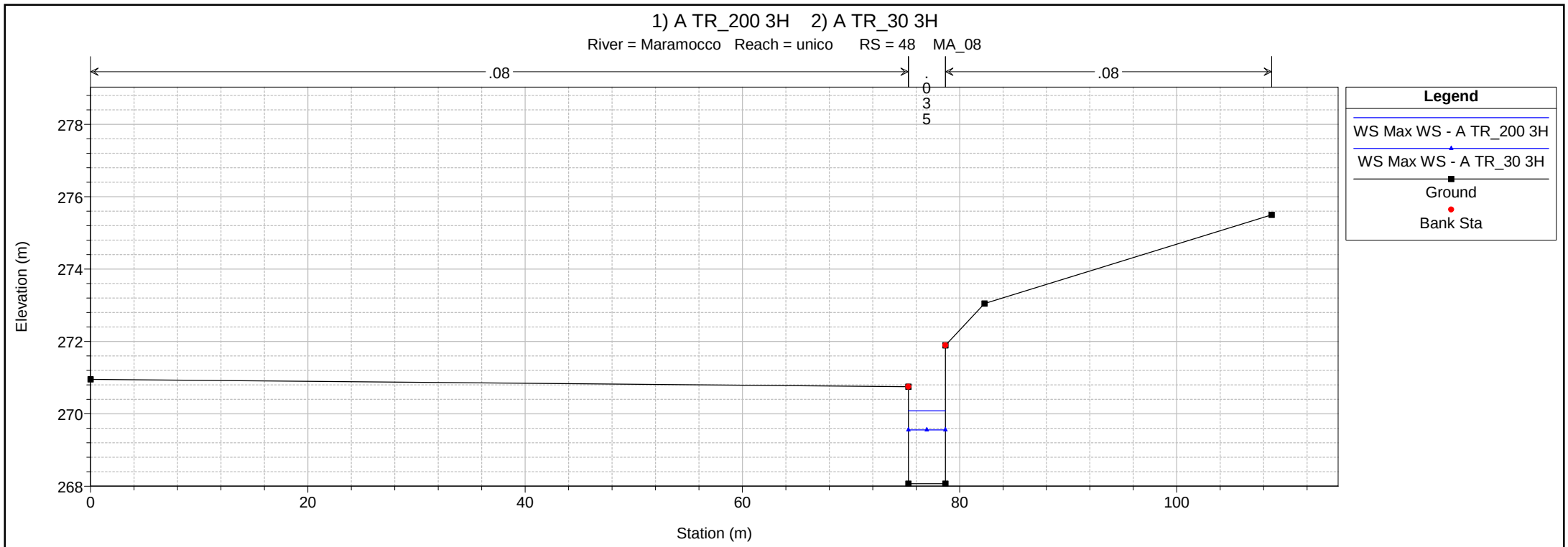


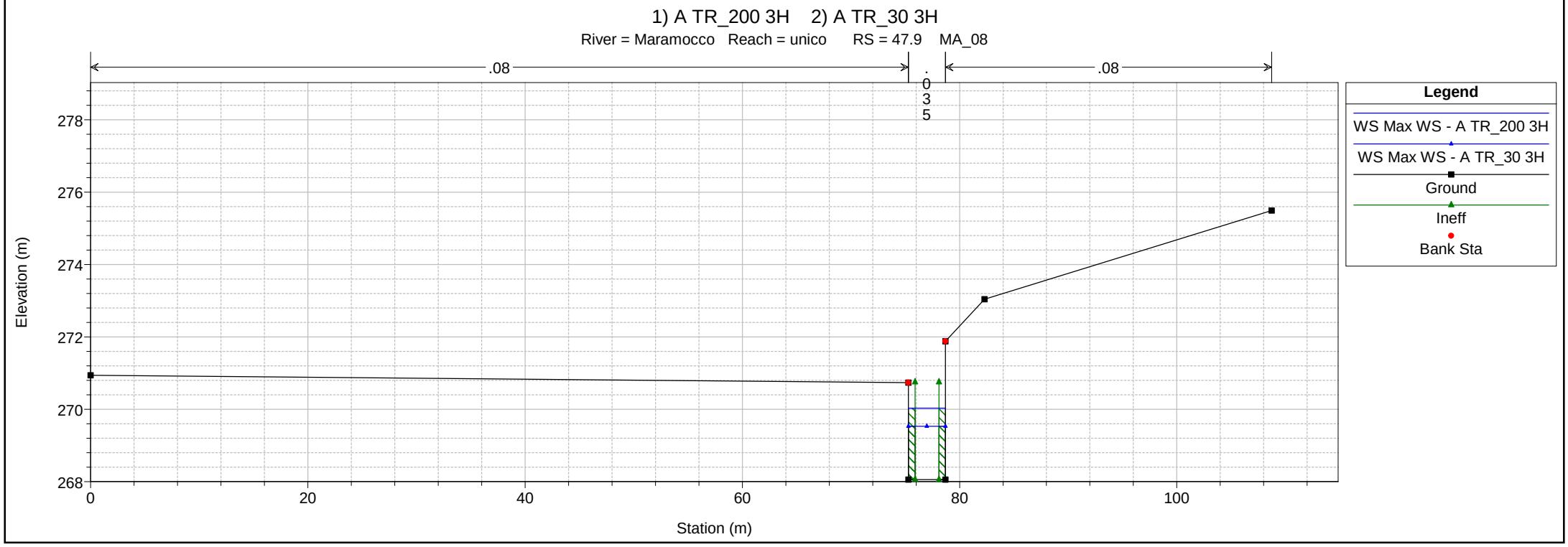
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



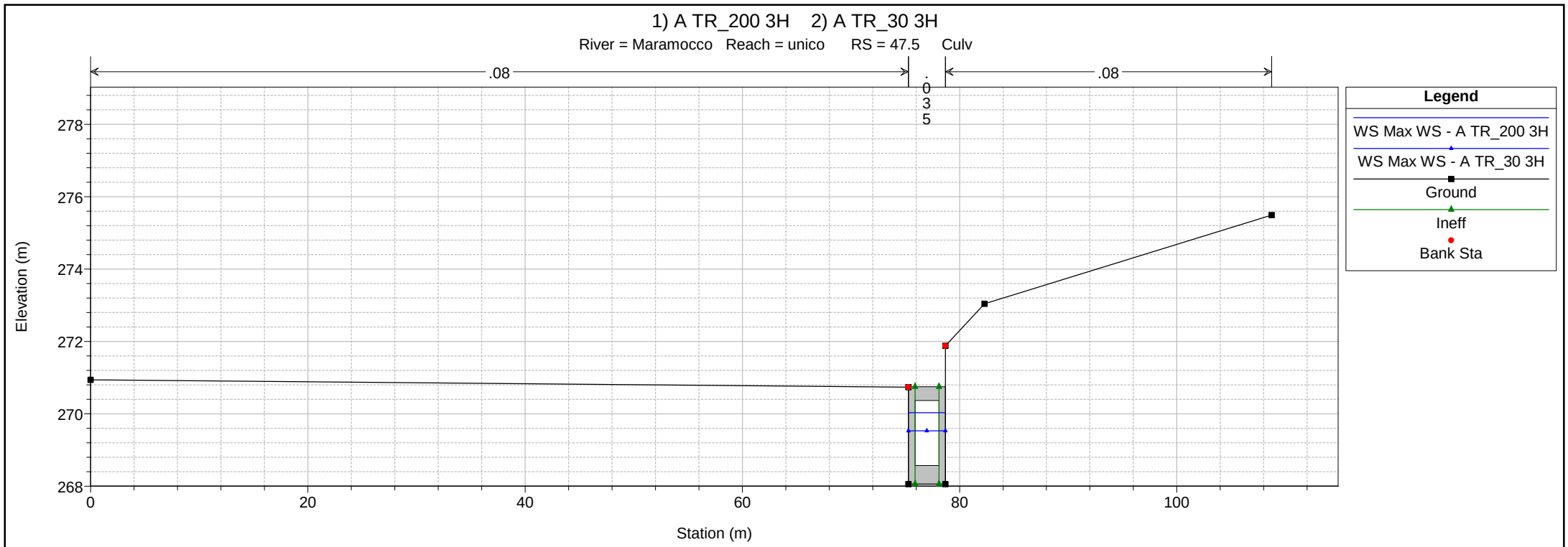


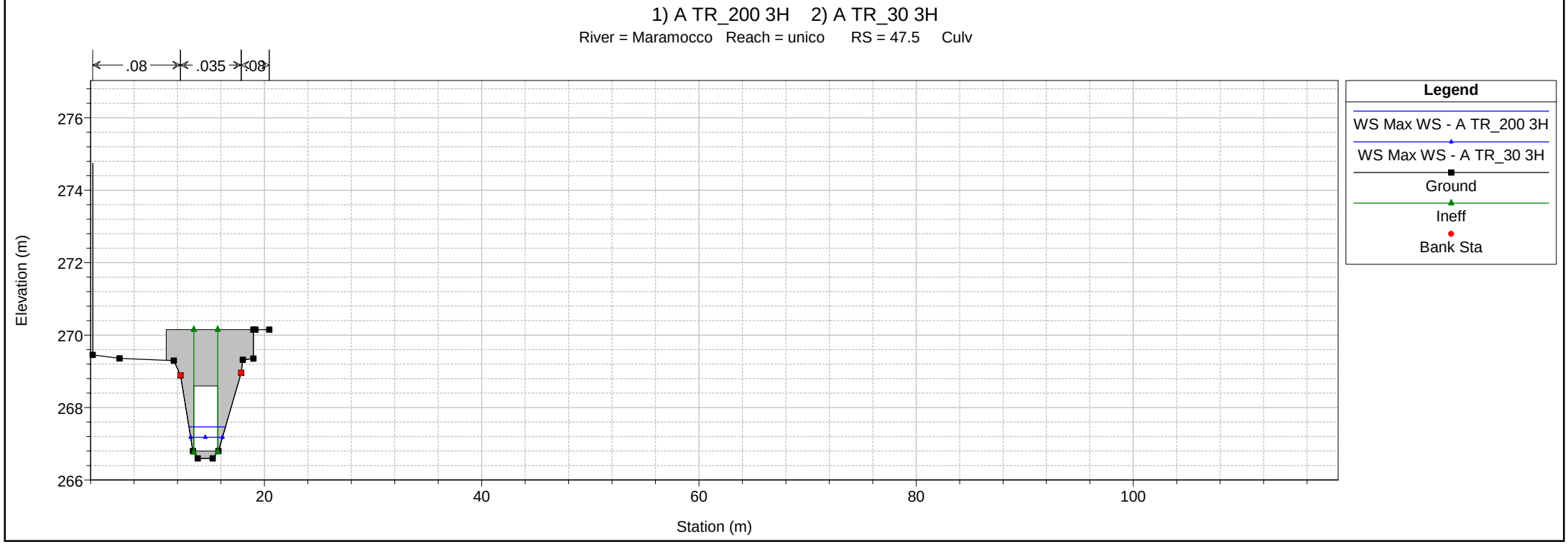
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



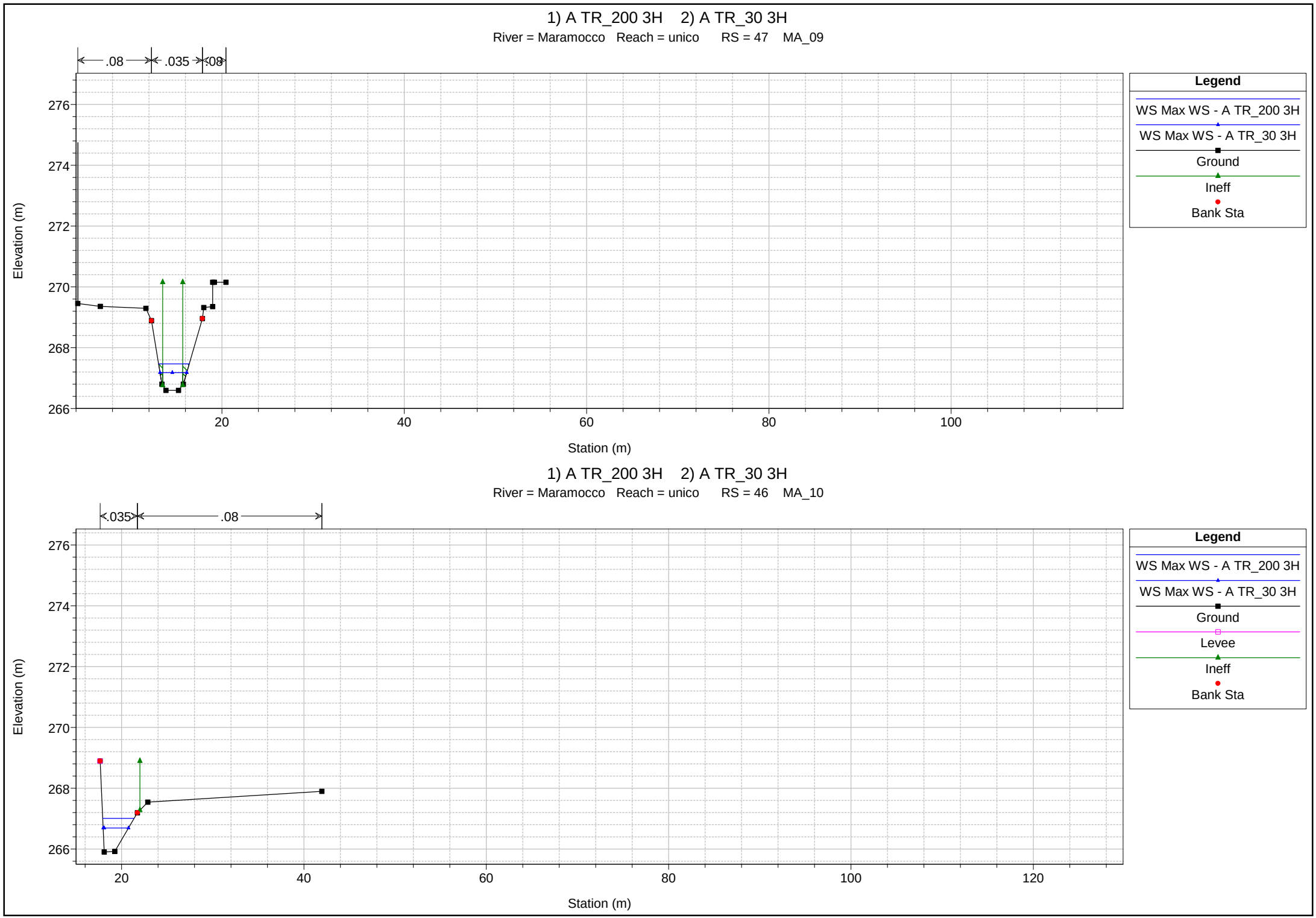


1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

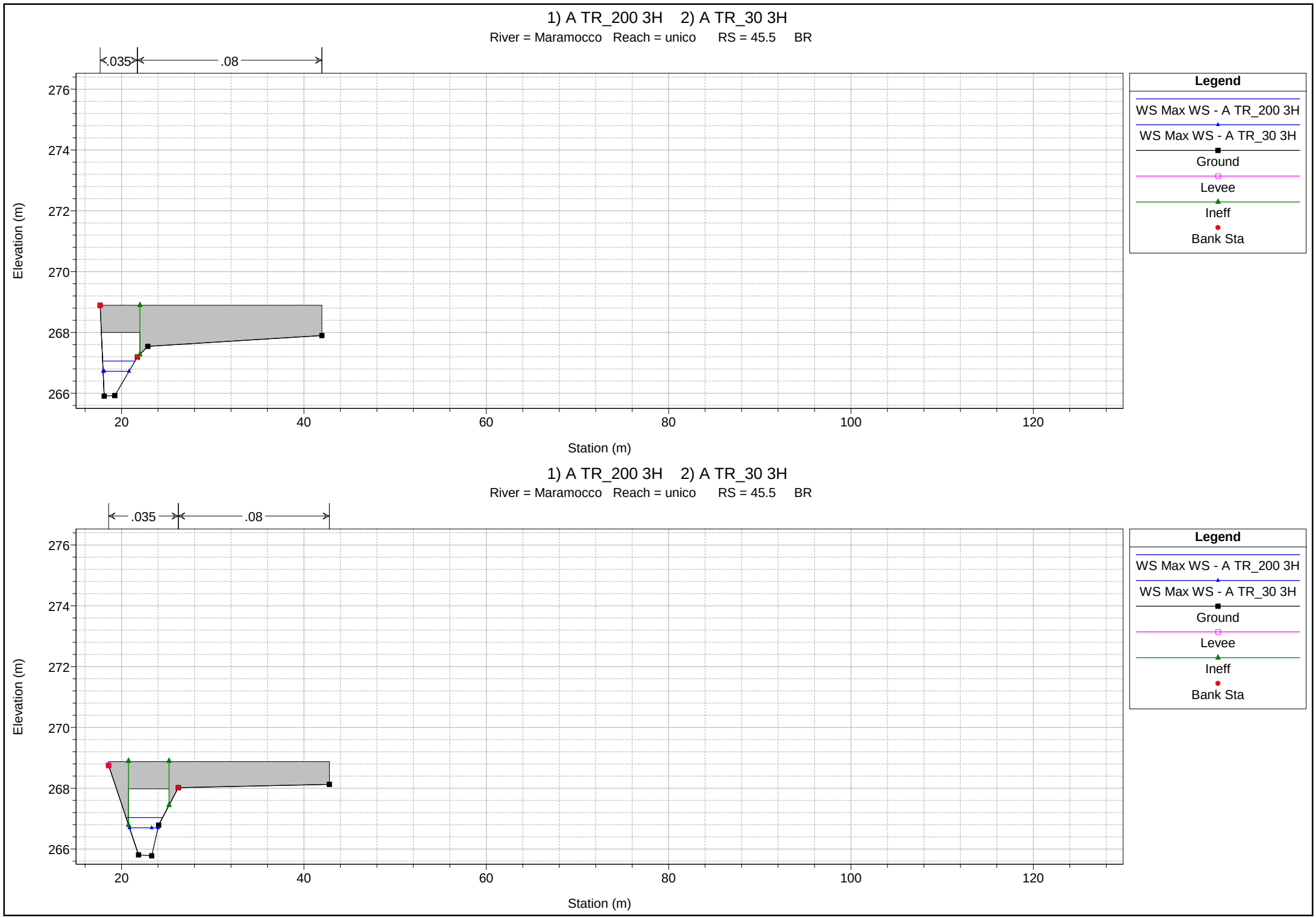




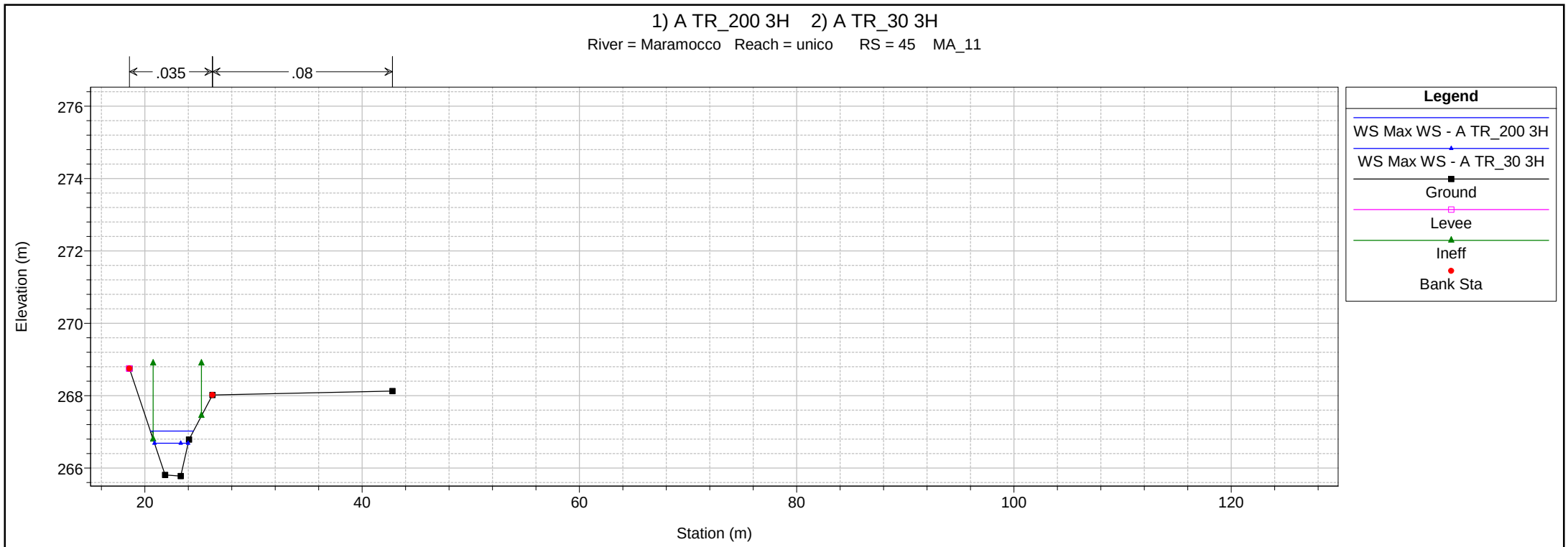
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

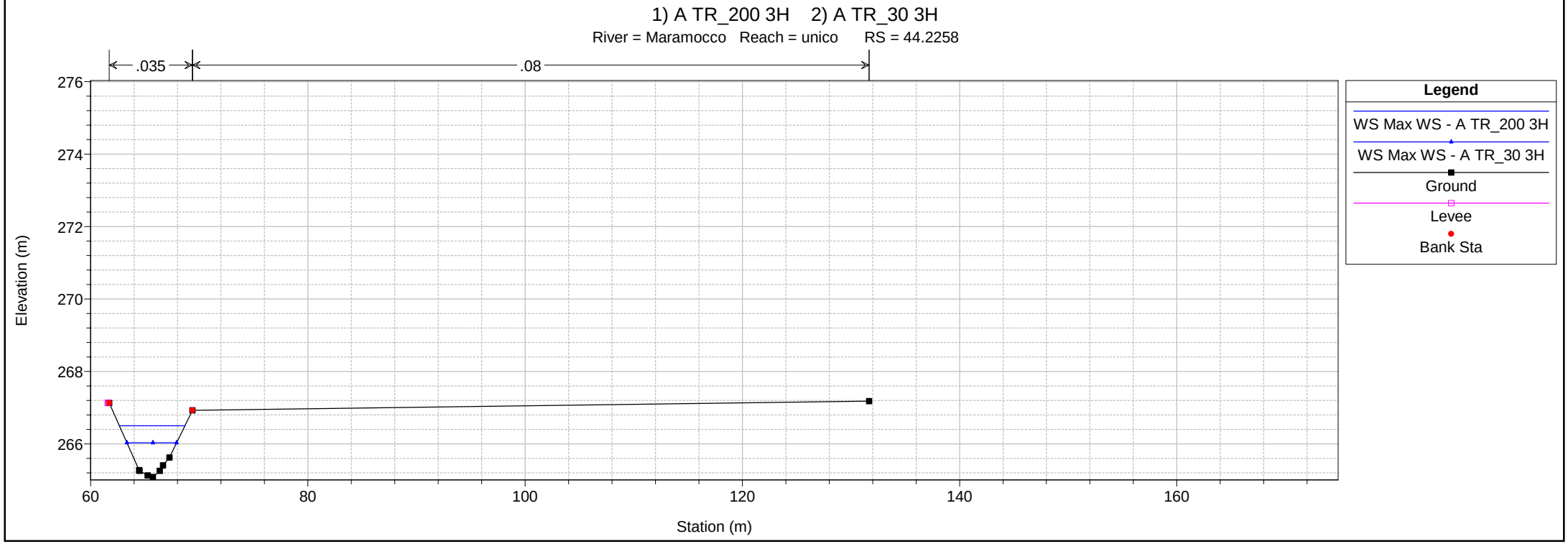


1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

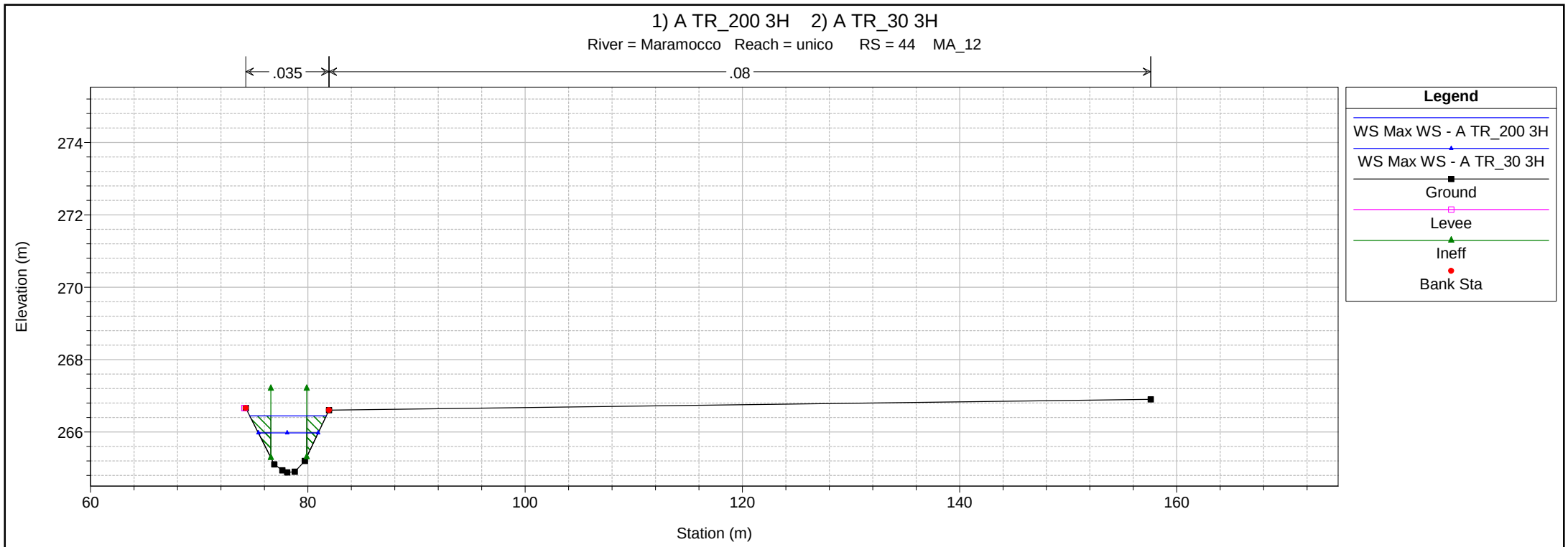


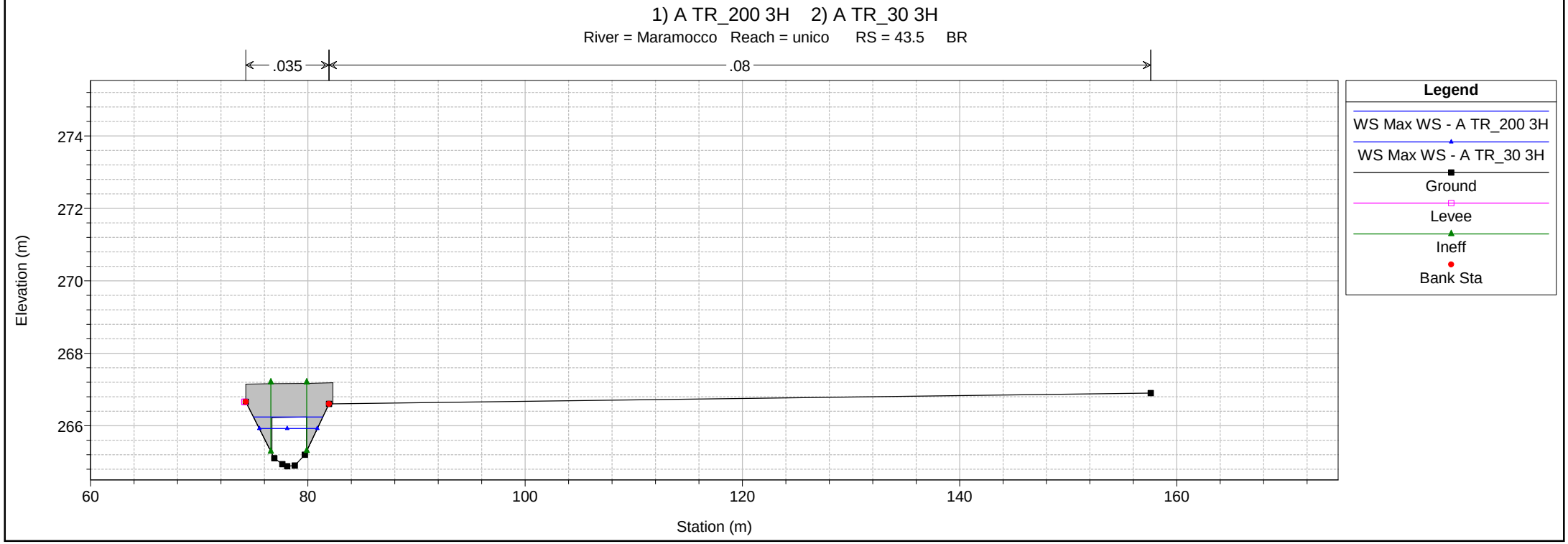
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m





1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

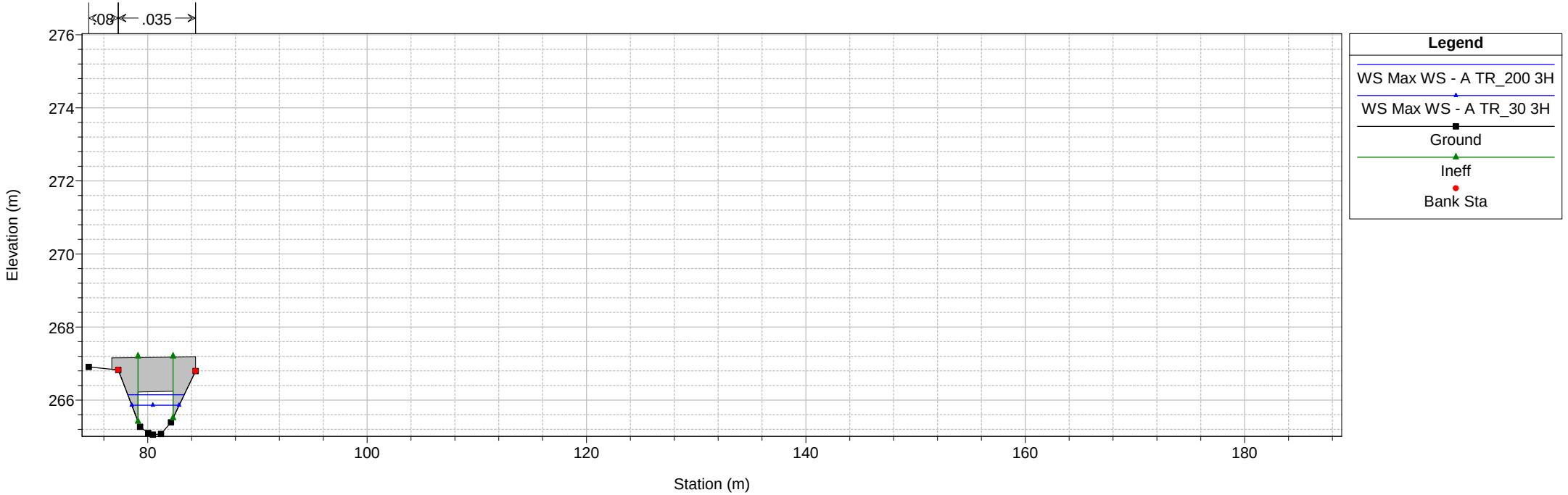




1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

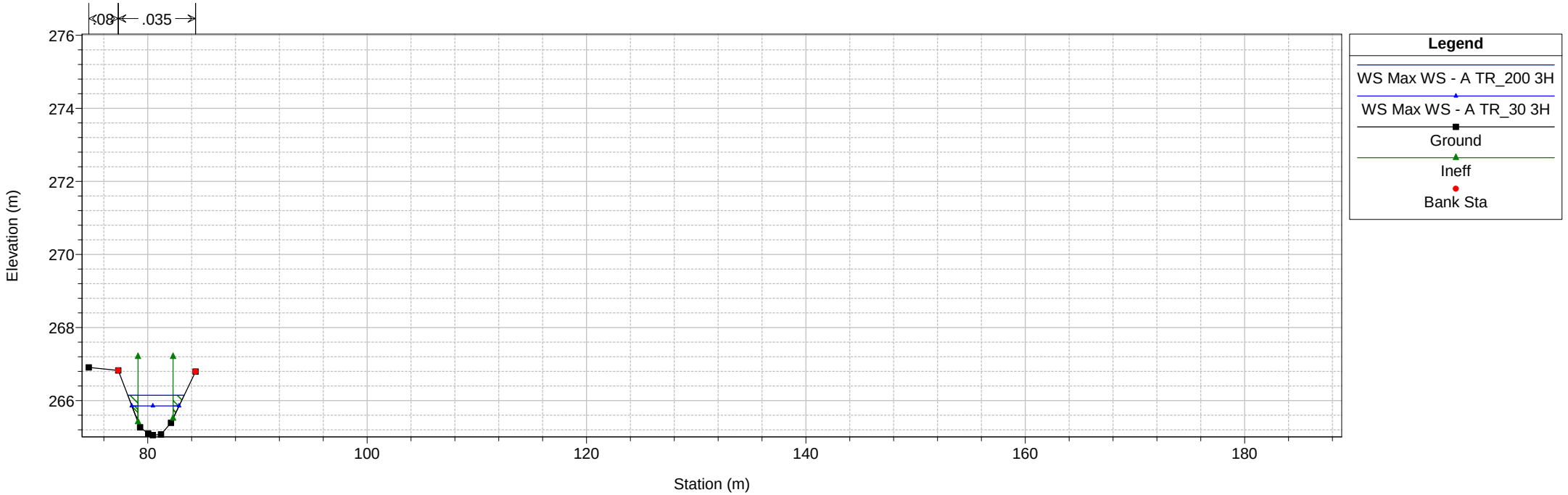
1) A TR_200 3H 2) A TR_30 3H

River = Maramocco Reach = unico RS = 43.5 BR

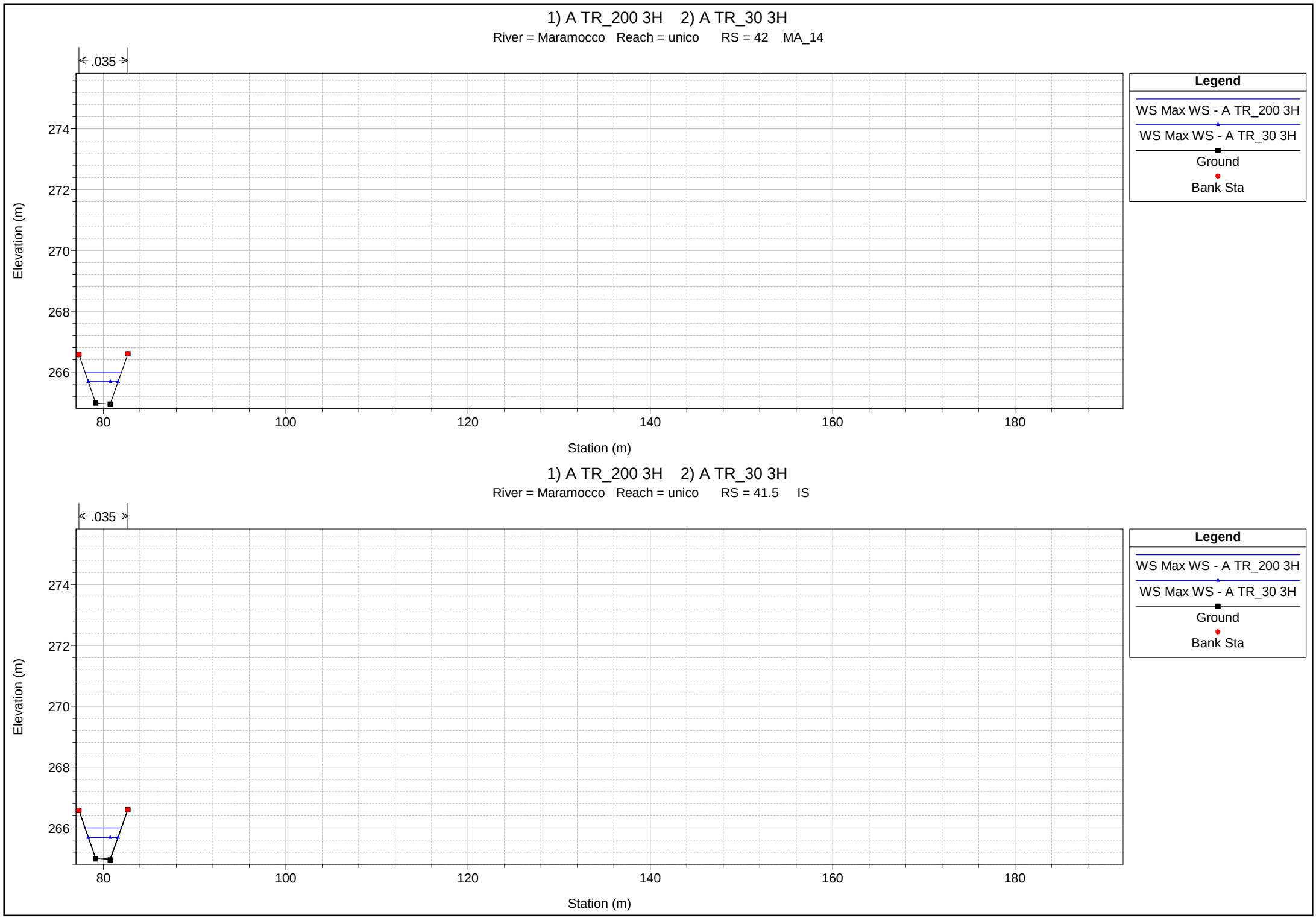


1) A TR_200 3H 2) A TR_30 3H

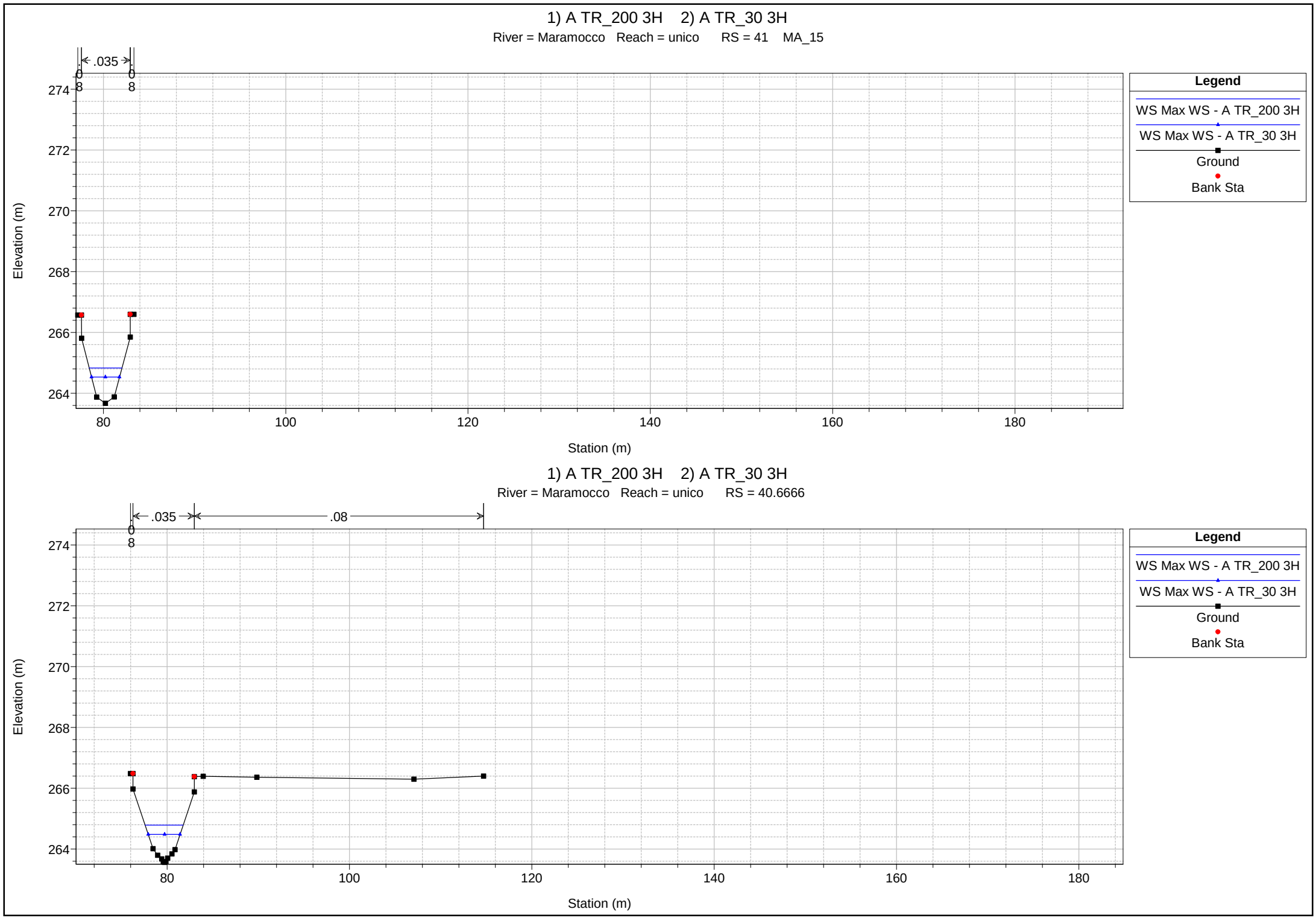
River = Maramocco Reach = unico RS = 43 MA_13



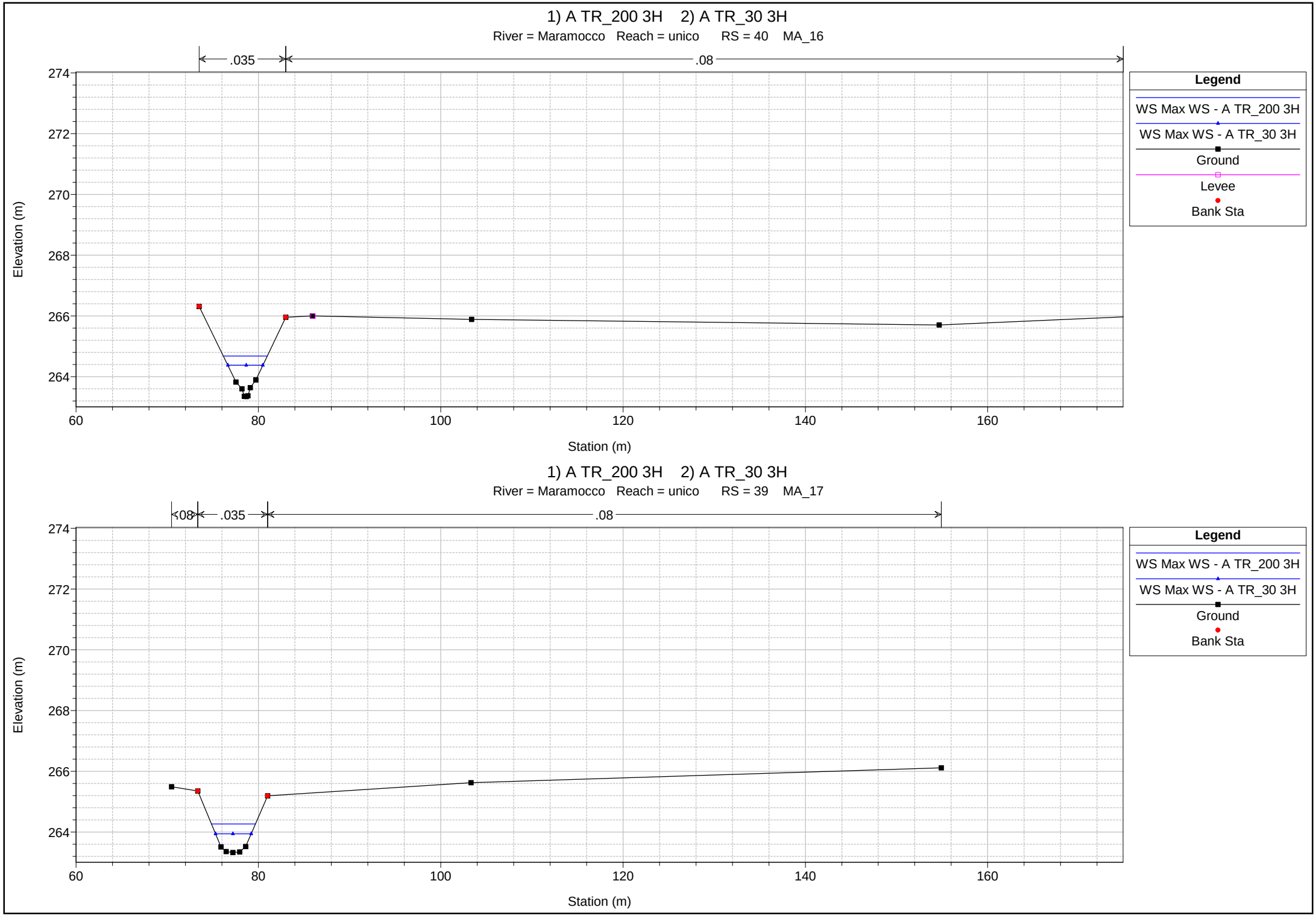
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



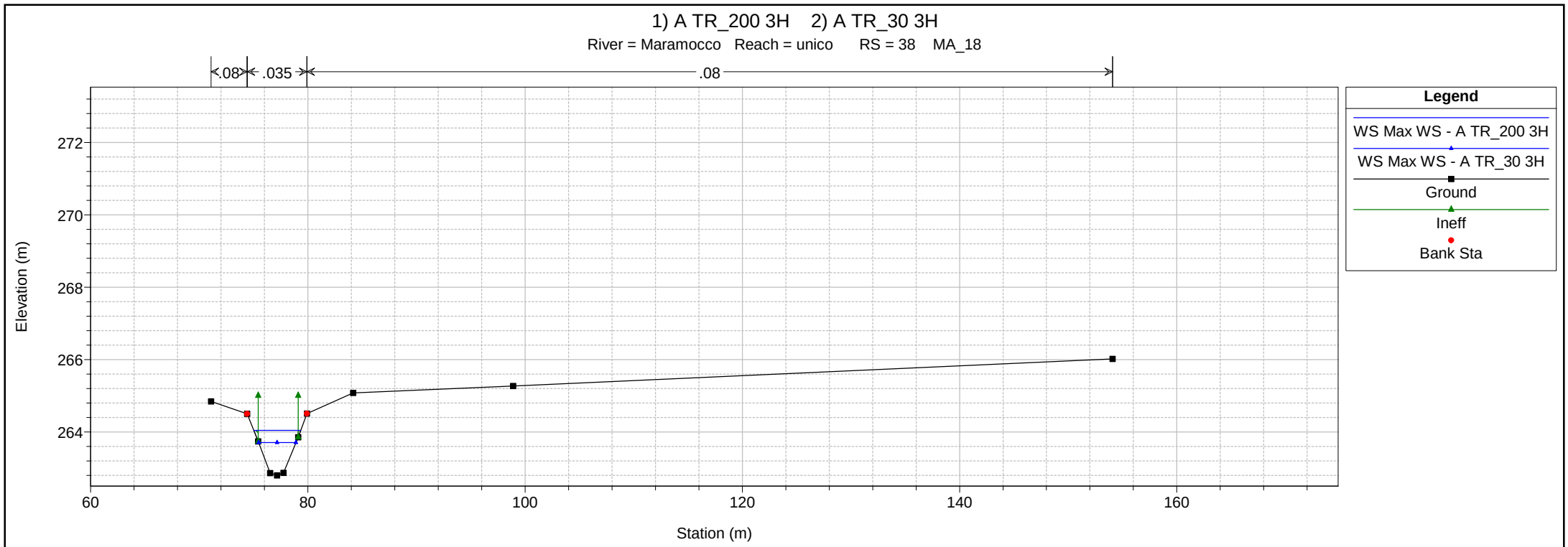
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

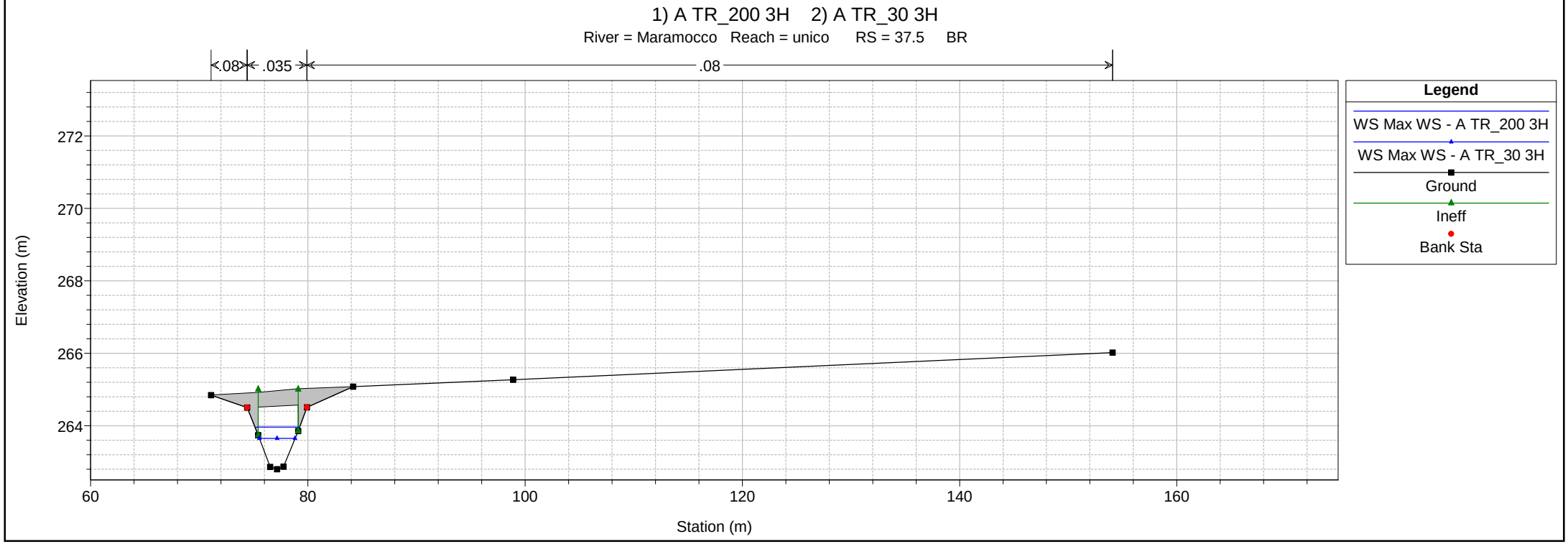


1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

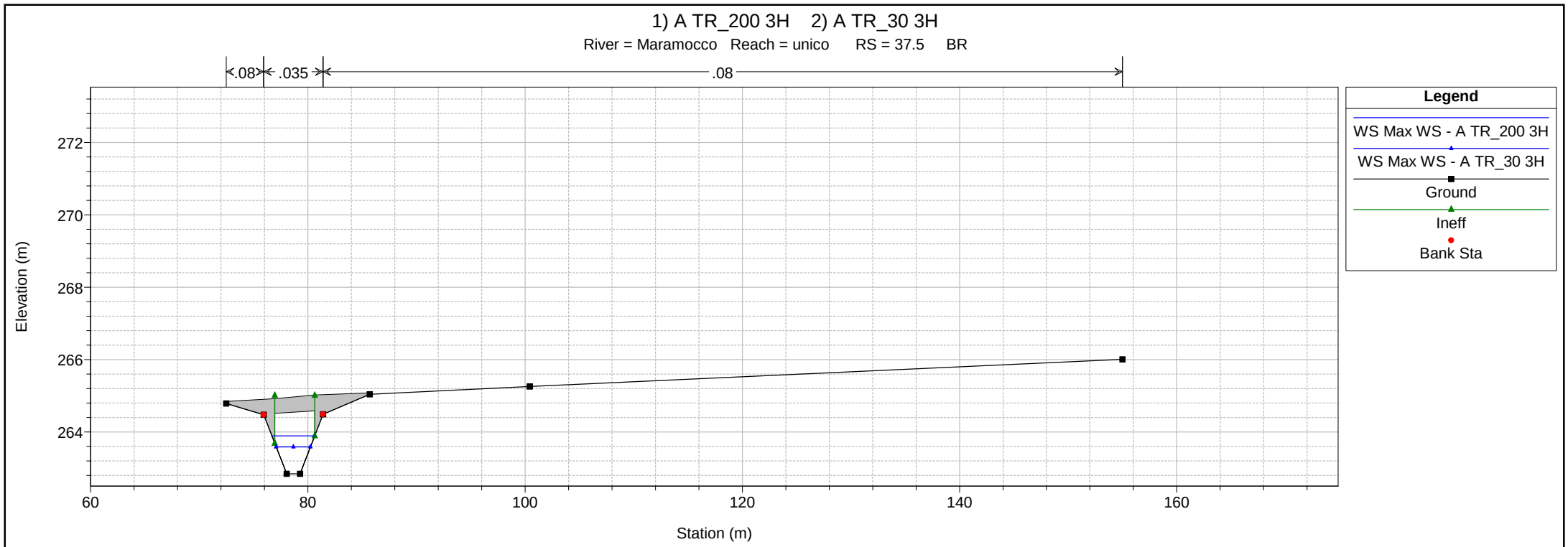


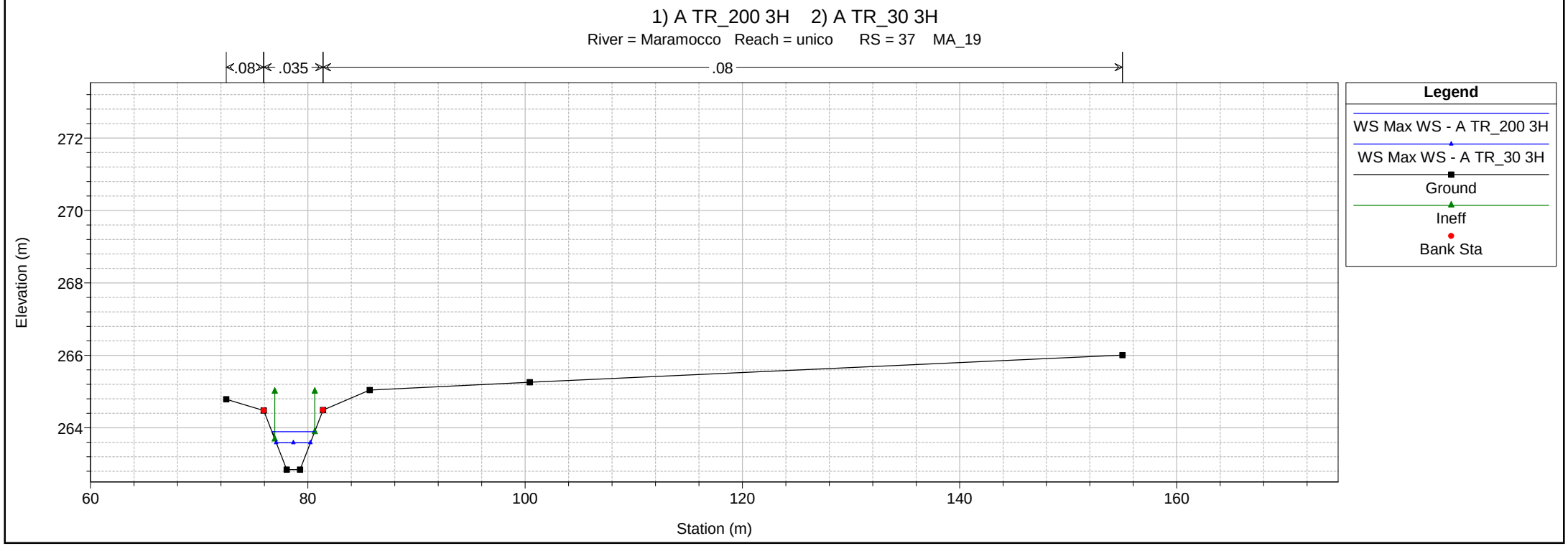
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



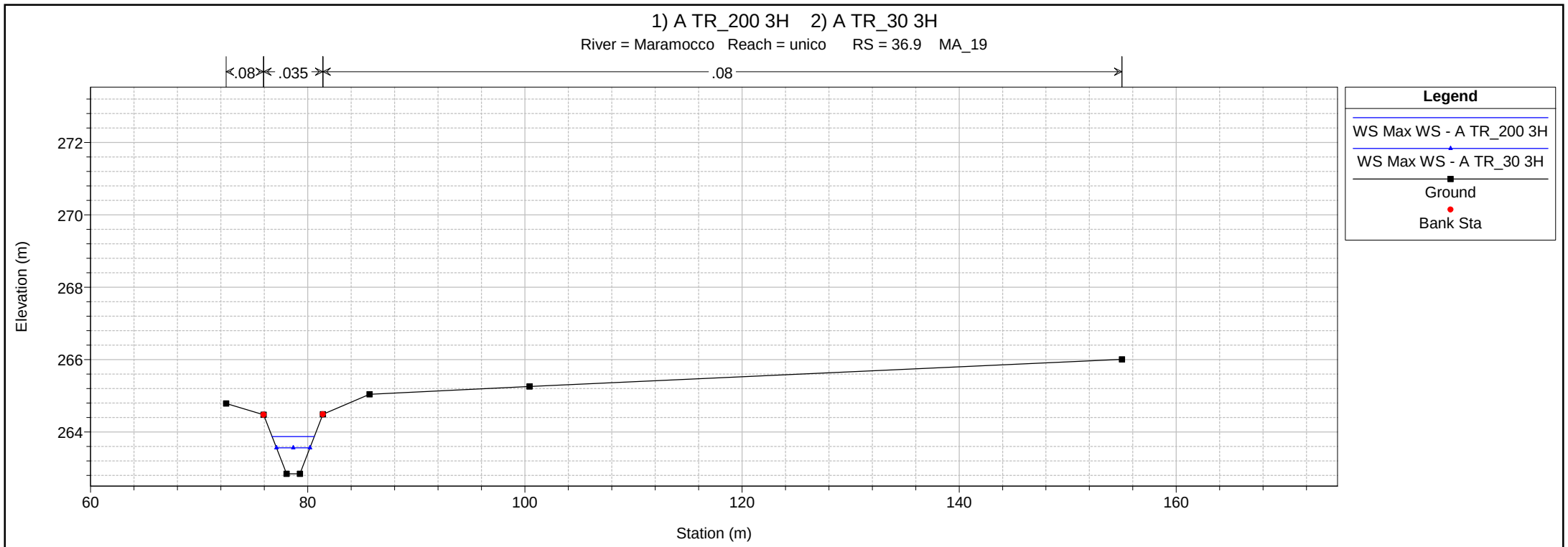


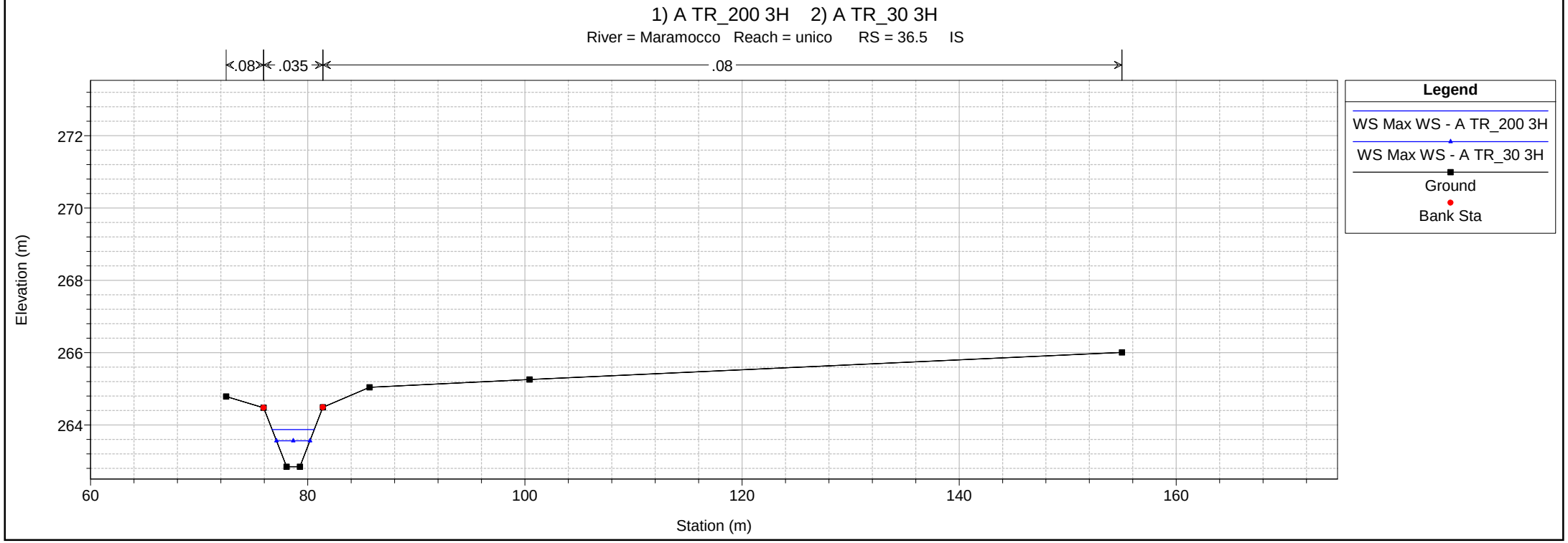
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



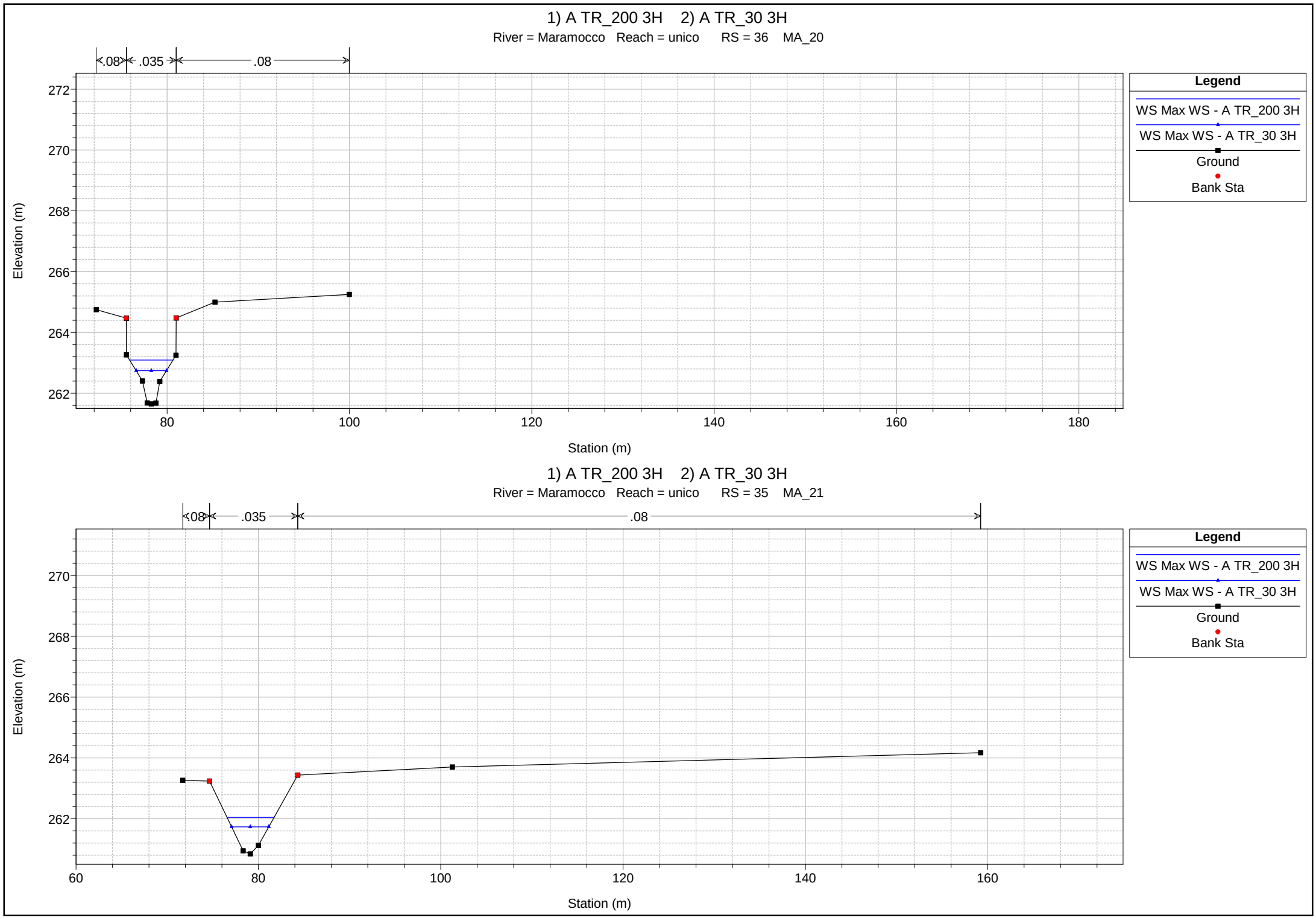


1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

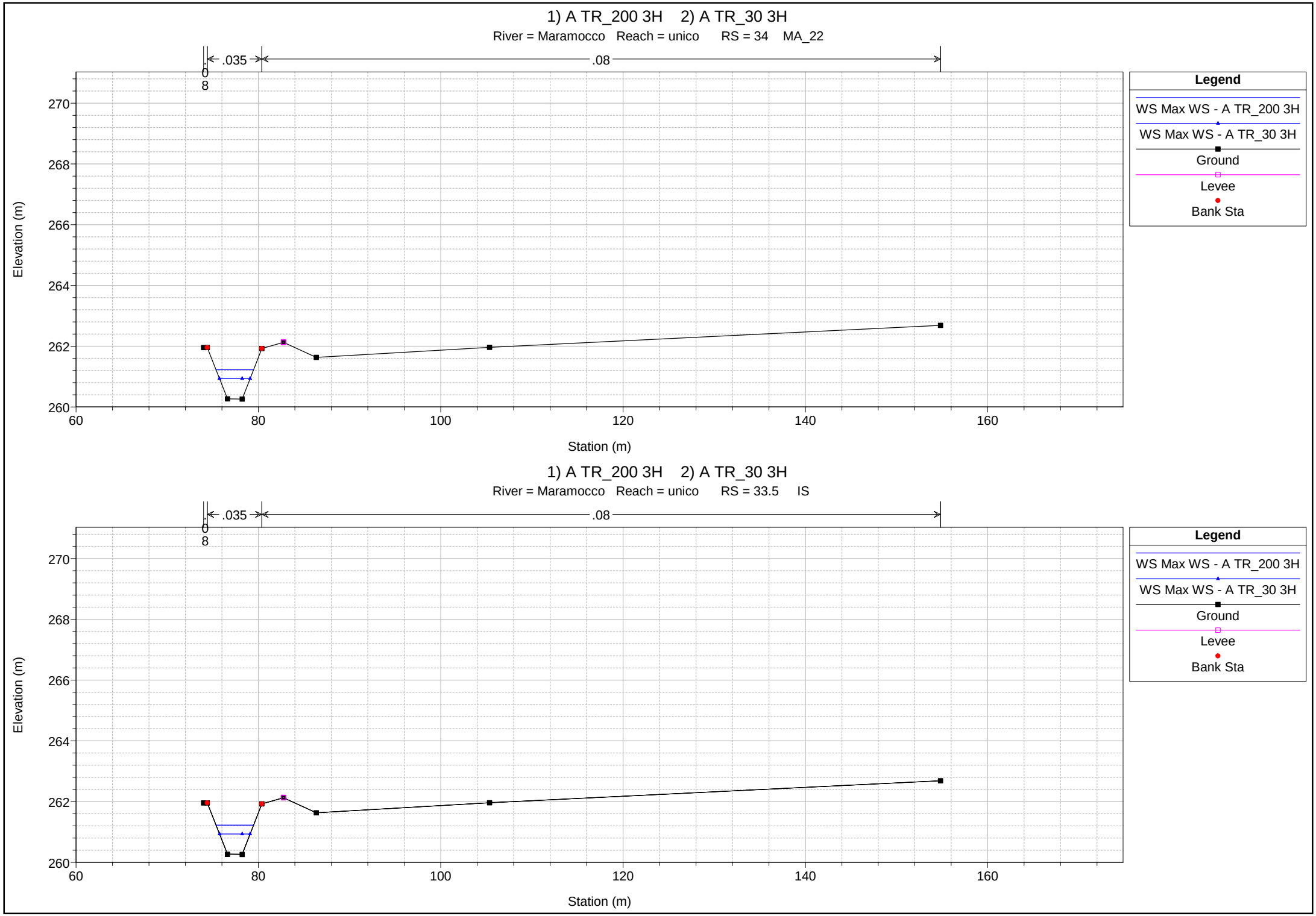




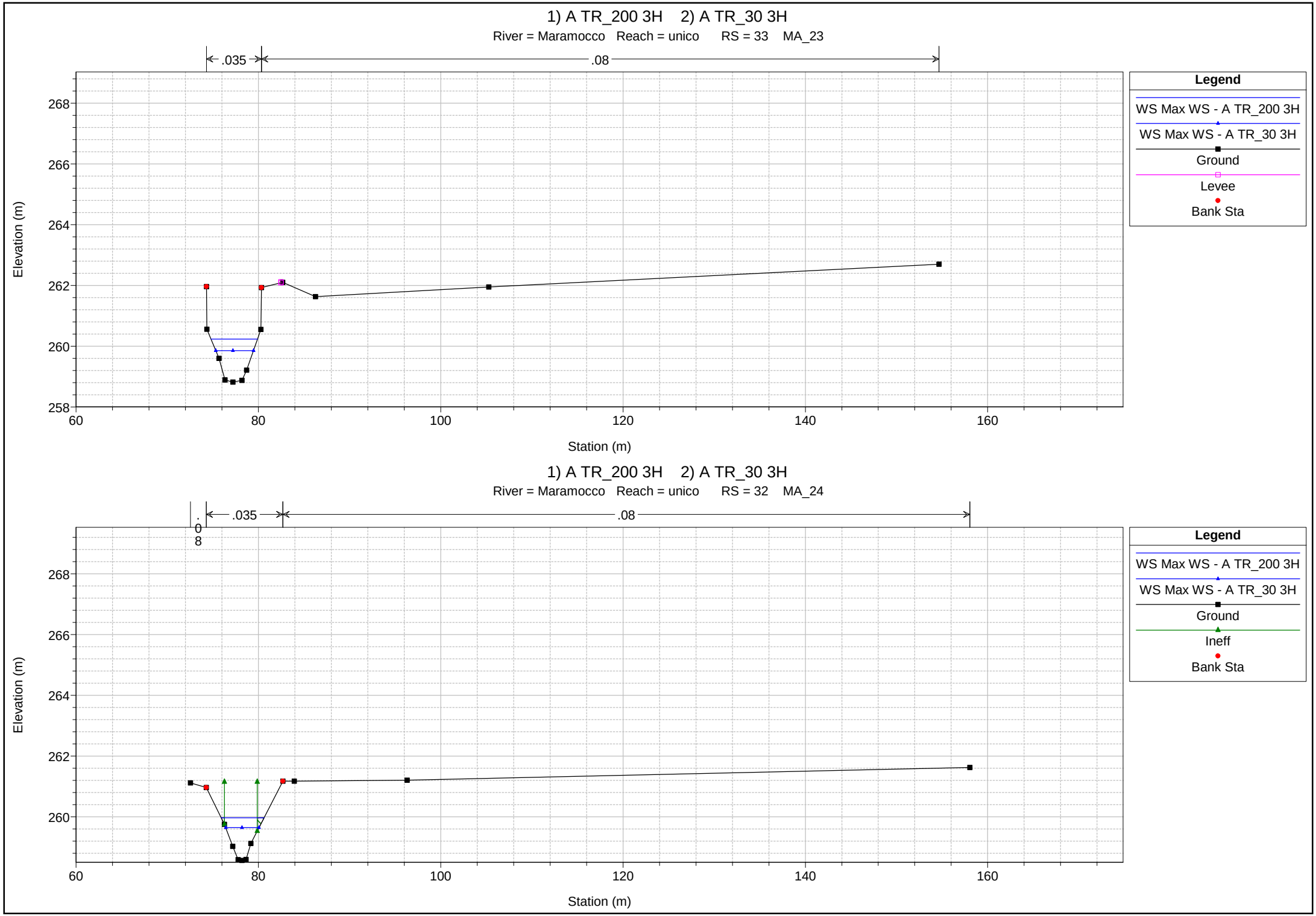
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



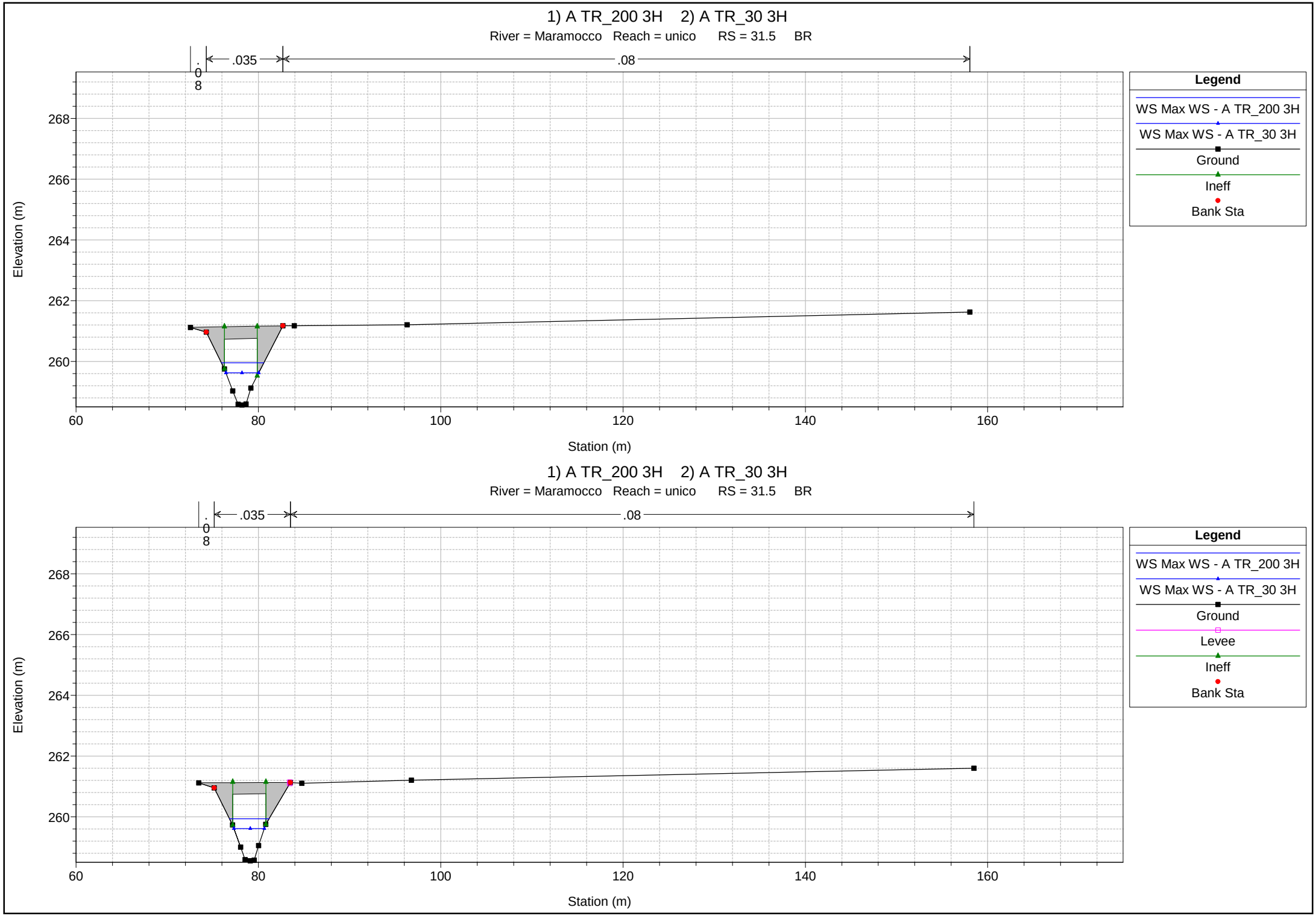
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



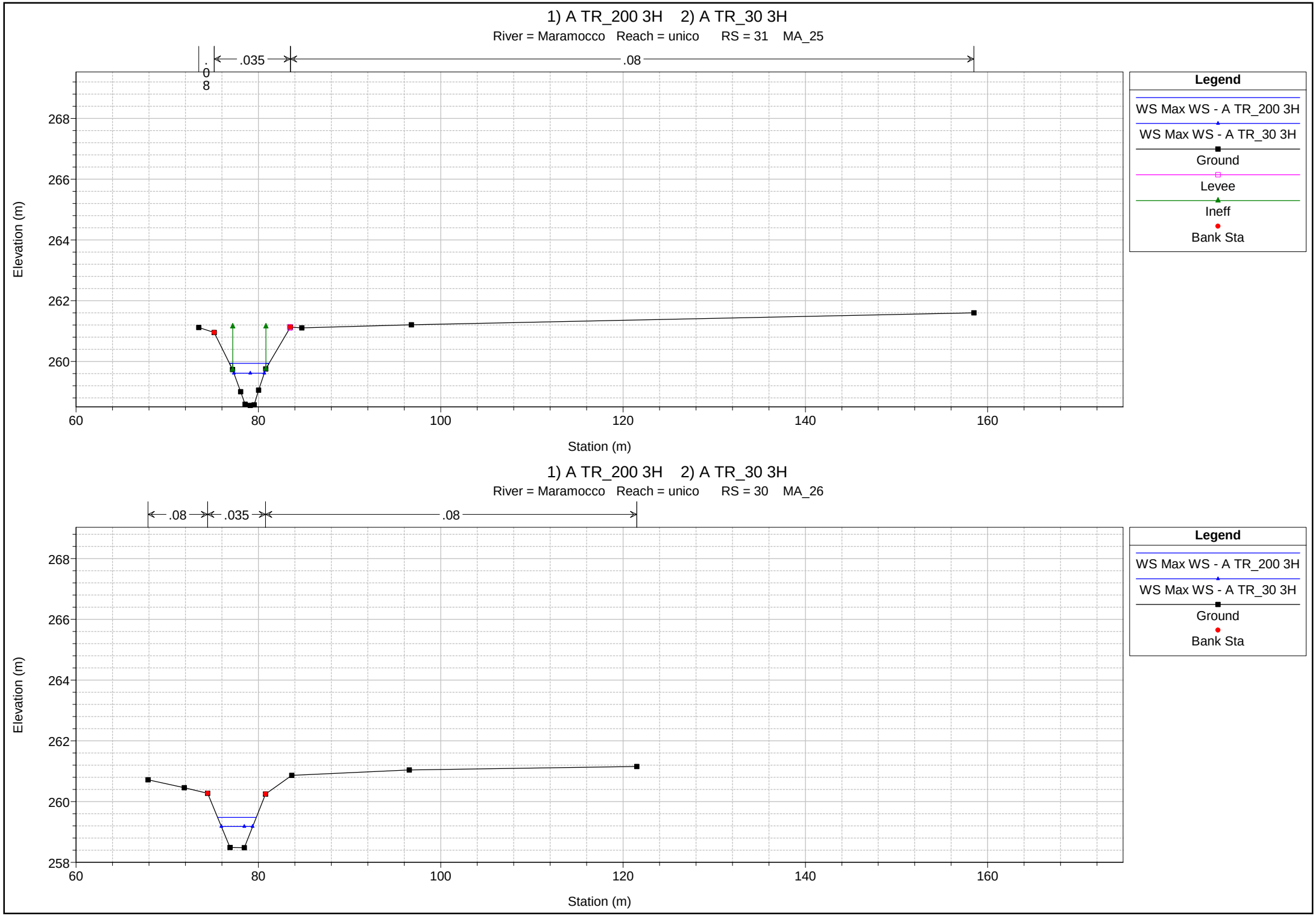
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



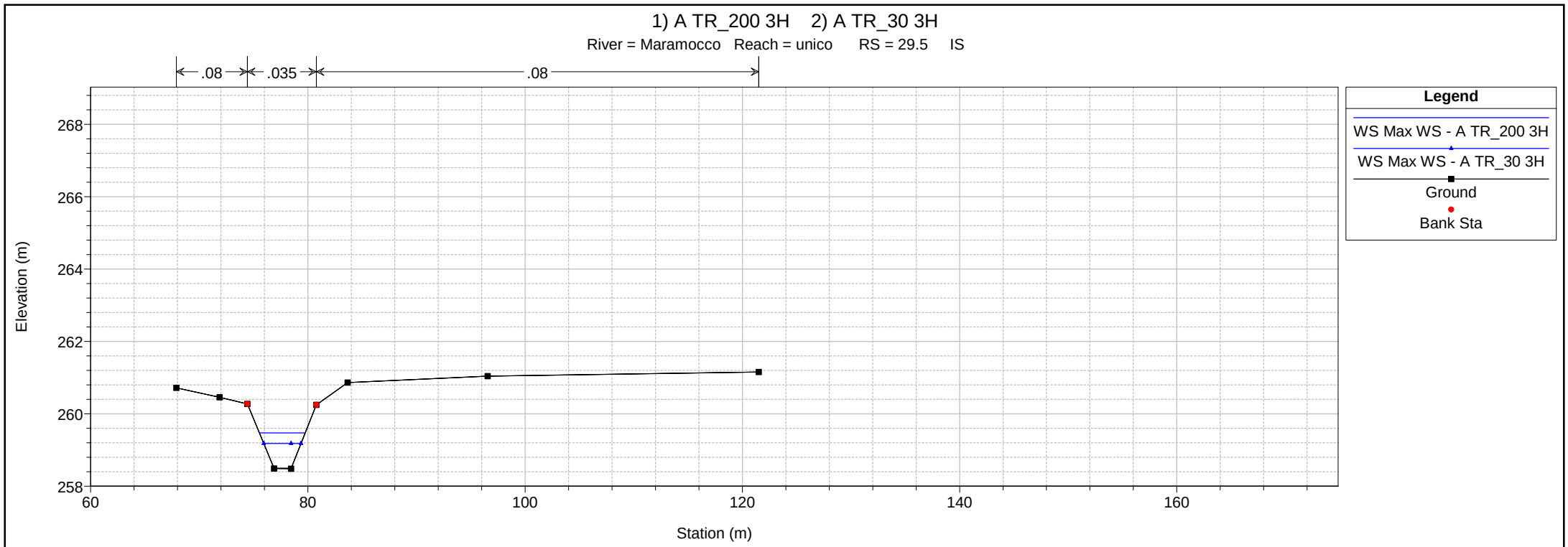
1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

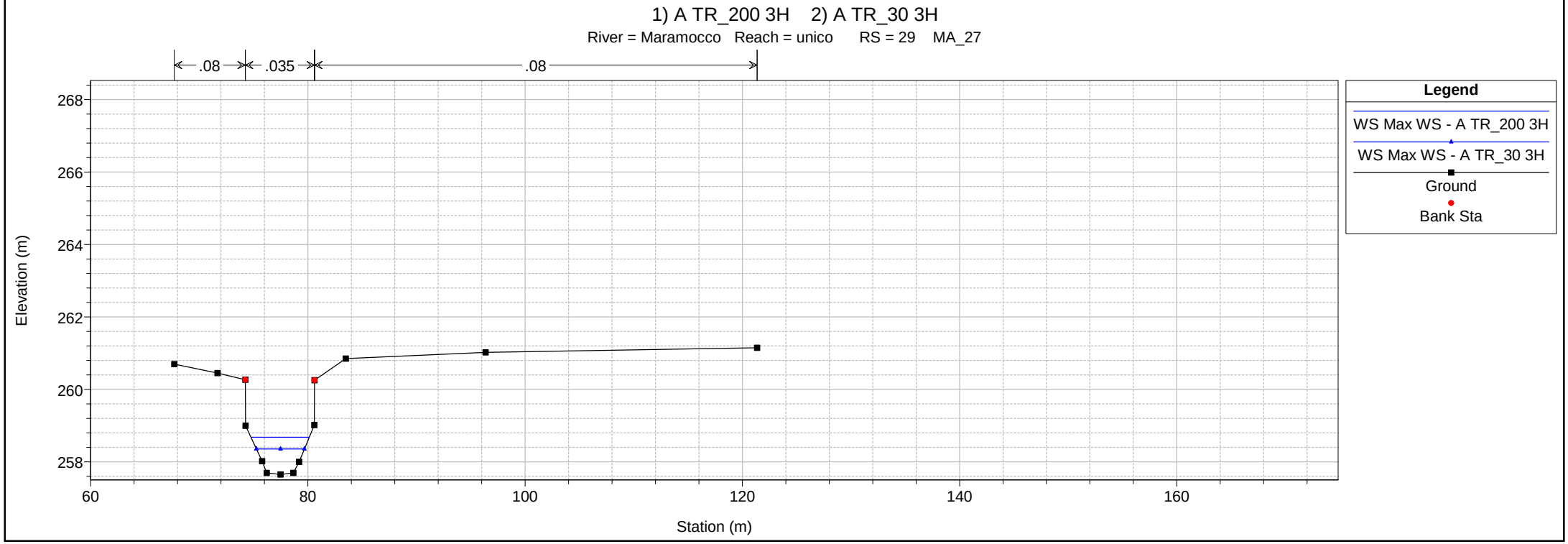


1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

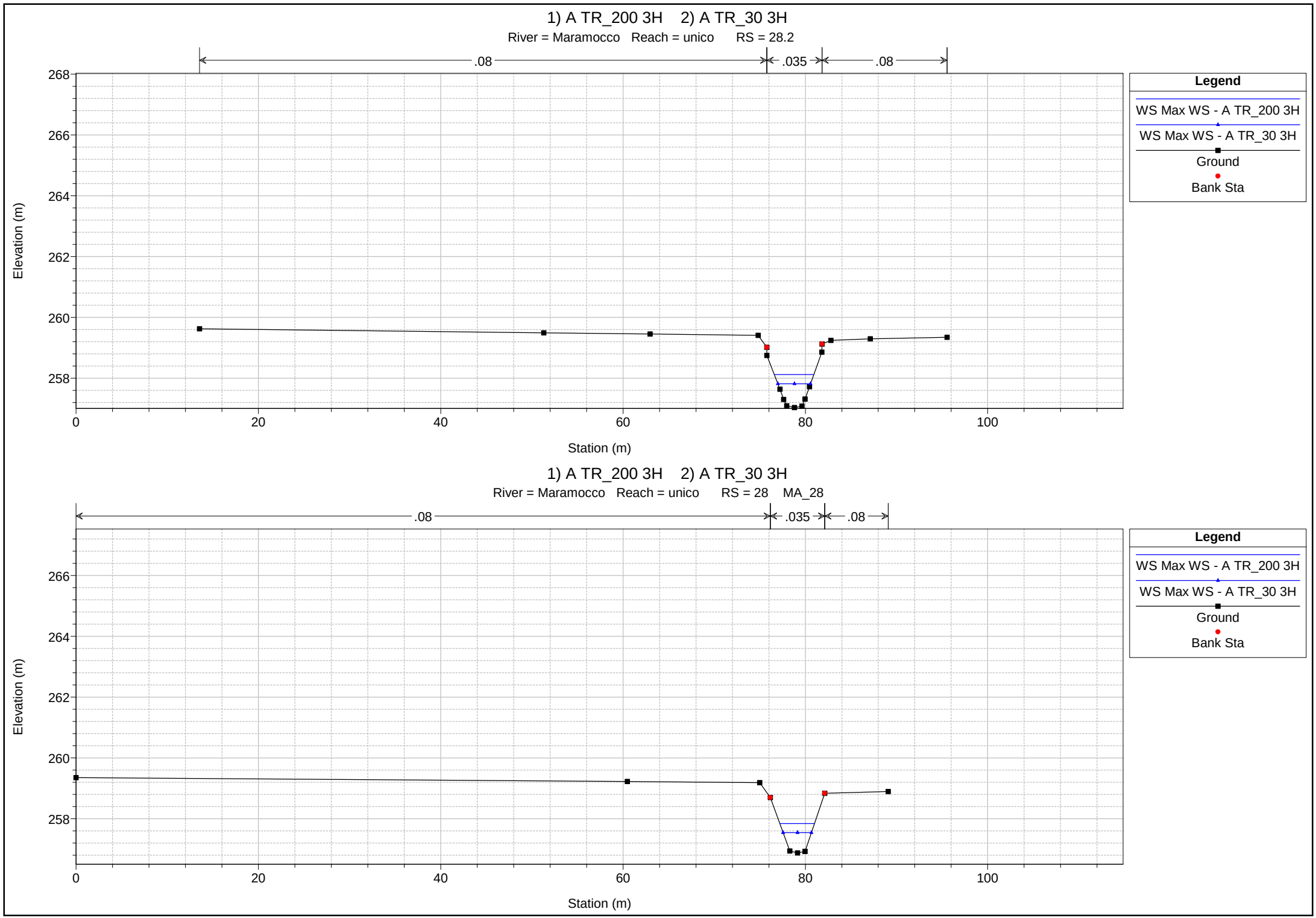


1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

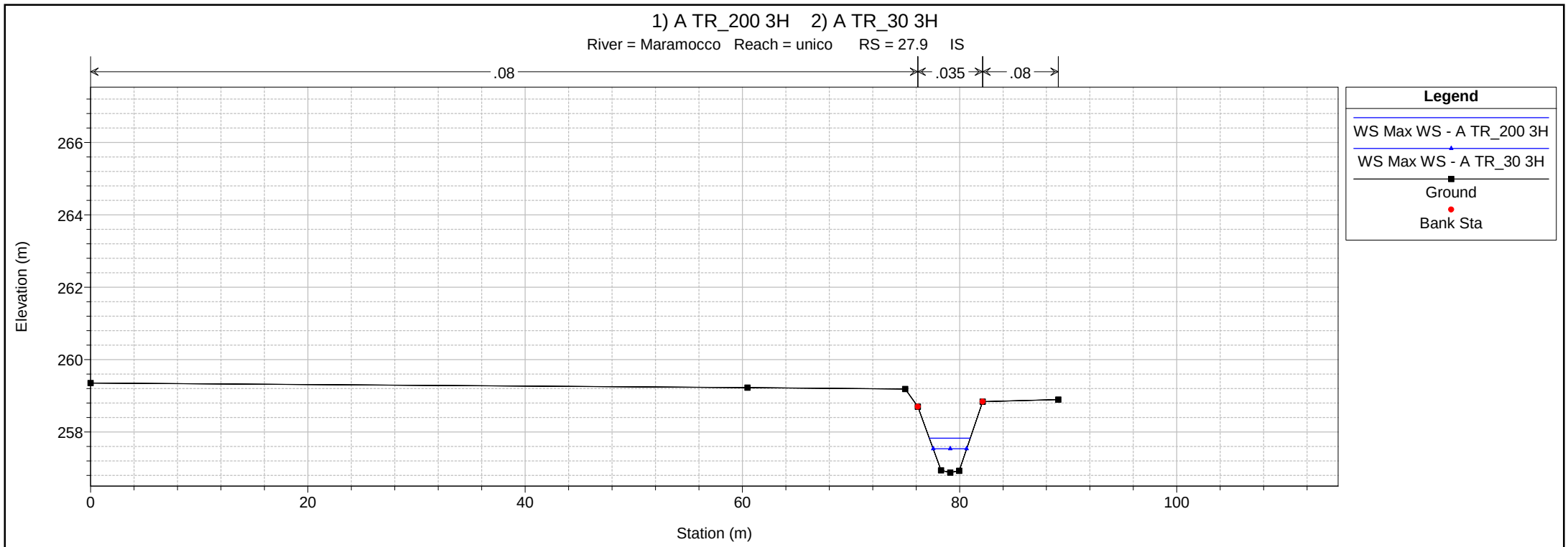


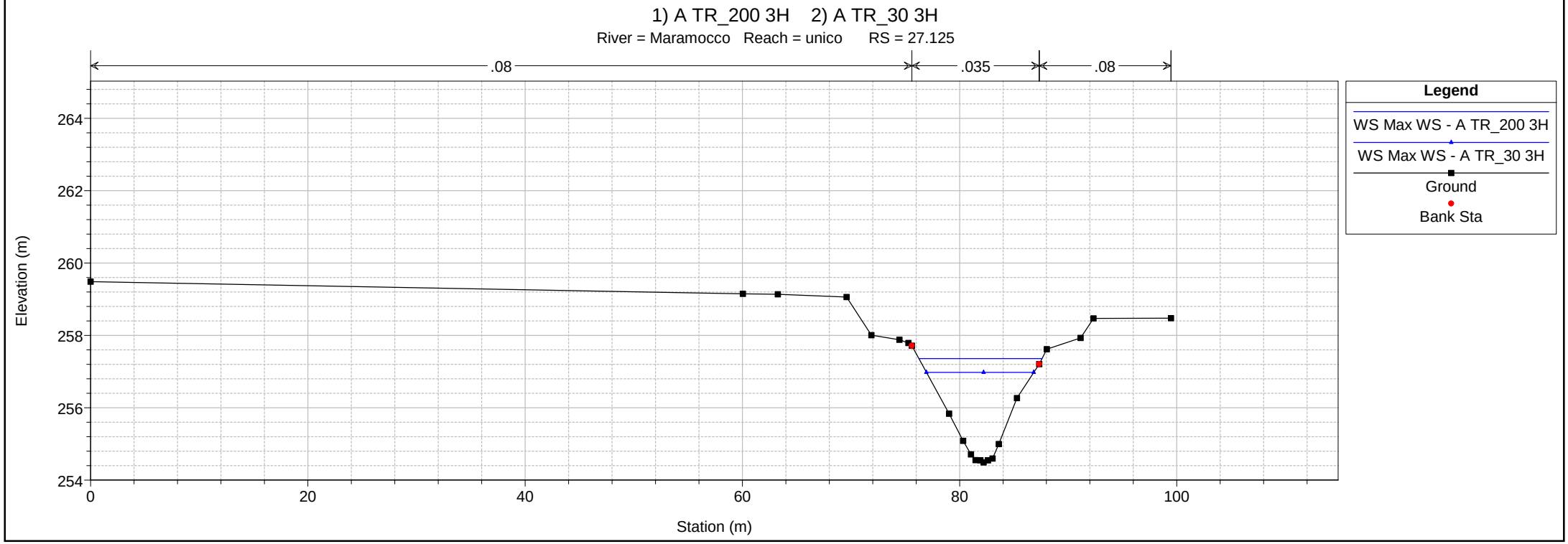


1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m





1 cm Horiz. = 5 m 1 cm Vert. = 1.5 m

HEC-RAS River: Maramocco Reach: unico 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)	
unico	55	Max WS	A TR_200 1H	6.50	278.65	279.69	279.64	279.89	0.012542	1.98	3.27	6.26	0.88
unico	55	Max WS	A TR_200 2H	6.40	278.65	279.69	279.63	279.89	0.012454	1.97	3.25	6.23	0.87
unico	55	Max WS	A TR_200 3H	5.60	278.65	279.64	279.58	279.82	0.012374	1.90	2.94	5.92	0.86
unico	55	Max WS	A TR_200 4H	4.90	278.65	279.59	279.53	279.76	0.012347	1.84	2.66	5.62	0.85
unico	55	Max WS	A TR_200 6H	4.00	278.65	279.52	279.46	279.68	0.012286	1.75	2.29	5.19	0.84
unico	55	Max WS	A TR_200 8H	3.40	278.65	279.47	279.41	279.61	0.012388	1.69	2.02	4.86	0.83
unico	55	Max WS	A TR_200 12H	2.60	278.65	279.39	279.33	279.51	0.012324	1.58	1.65	4.36	0.82
unico	55	Max WS	A TR_30 1H	3.20	278.65	279.45	279.39	279.59	0.012390	1.66	1.93	4.74	0.83
unico	55	Max WS	A TR_30 2H	3.30	278.65	279.46	279.40	279.60	0.012396	1.67	1.97	4.80	0.83
unico	55	Max WS	A TR_30 3H	2.90	278.65	279.42	279.36	279.55	0.012245	1.61	1.80	4.56	0.82
unico	55	Max WS	A TR_30 4H	2.60	278.65	279.39	279.33	279.51	0.012324	1.58	1.65	4.36	0.82
unico	55	Max WS	A TR_30 6H	2.10	278.65	279.33	279.27	279.44	0.012264	1.50	1.40	4.00	0.81
unico	55	Max WS	A TR_30 8H	1.80	278.65	279.29	279.23	279.39	0.012266	1.44	1.25	3.75	0.80
unico	55	Max WS	A TR_30 12H	1.40	278.65	279.23	279.17	279.32	0.012215	1.36	1.03	3.37	0.78
unico	54	Max WS	A TR_200 1H	6.48	277.63	278.44	278.47	278.71	0.018172	2.30	2.83	6.45	1.05
unico	54	Max WS	A TR_200 2H	6.39	277.63	278.44	278.46	278.71	0.018252	2.29	2.80	6.22	1.05
unico	54	Max WS	A TR_200 3H	5.60	277.63	278.39	278.41	278.64	0.018469	2.22	2.53	5.58	1.05
unico	54	Max WS	A TR_200 4H	4.90	277.63	278.35	278.36	278.58	0.018536	2.14	2.29	5.32	1.04
unico	54	Max WS	A TR_200 6H	4.00	277.63	278.28	278.30	278.50	0.018776	2.05	1.96	4.94	1.04
unico	54	Max WS	A TR_200 8H	3.40	277.63	278.24	278.24	278.43	0.019021	1.97	1.72	4.65	1.03
unico	54	Max WS	A TR_200 12H	2.60	277.63	278.16	278.17	278.34	0.019168	1.84	1.41	4.23	1.02
unico	54	Max WS	A TR_30 1H	3.20	277.63	278.22	278.23	278.41	0.019143	1.95	1.64	4.55	1.03
unico	54	Max WS	A TR_30 2H	3.30	277.63	278.23	278.24	278.42	0.019070	1.96	1.69	4.60	1.03
unico	54	Max WS	A TR_30 3H	2.90	277.63	278.19	278.20	278.38	0.019187	1.90	1.53	4.39	1.03
unico	54	Max WS	A TR_30 4H	2.60	277.63	278.16	278.17	278.34	0.019169	1.84	1.41	4.23	1.02
unico	54	Max WS	A TR_30 6H	2.10	277.63	278.11	278.12	278.27	0.019599	1.76	1.19	3.91	1.02
unico	54	Max WS	A TR_30 8H	1.80	277.63	278.08	278.08	278.22	0.019404	1.68	1.07	3.72	1.00
unico	54	Max WS	A TR_30 12H	1.40	277.63	278.03	278.03	278.15	0.019968	1.59	0.88	3.40	1.00
unico	53	Max WS	A TR_200 1H	6.48	275.43	276.59	276.48	276.83	0.011505	2.19	2.95	4.12	0.83
unico	53	Max WS	A TR_200 2H	6.39	275.43	276.58	276.47	276.82	0.011483	2.18	2.93	4.10	0.82
unico	53	Max WS	A TR_200 3H	5.60	275.43	276.51	276.41	276.74	0.011540	2.12	2.65	3.91	0.82
unico	53	Max WS	A TR_200 4H	4.90	275.43	276.44	276.35	276.66	0.011545	2.05	2.40	3.73	0.81
unico	53	Max WS	A TR_200 6H	4.00	275.43	276.35	276.25	276.54	0.011560	1.94	2.06	3.48	0.81
unico	53	Max WS	A TR_200 8H	3.40	275.43	276.28	276.19	276.46	0.011487	1.86	1.83	3.30	0.80
unico	53	Max WS	A TR_200 12H	2.60	275.43	276.18	276.09	276.33	0.011501	1.74	1.50	3.01	0.79
unico	53	Max WS	A TR_30 1H	3.20	275.43	276.26	276.17	276.43	0.011558	1.84	1.74	3.23	0.80
unico	53	Max WS	A TR_30 2H	3.30	275.43	276.27	276.17	276.44	0.011519	1.85	1.79	3.26	0.80
unico	53	Max WS	A TR_30 3H	2.90	275.43	276.22	276.13	276.38	0.011594	1.79	1.62	3.12	0.79
unico	53	Max WS	A TR_30 4H	2.60	275.43	276.18	276.09	276.33	0.011501	1.74	1.50	3.01	0.79
unico	53	Max WS	A TR_30 6H	2.10	275.43	276.10	276.02	276.24	0.011571	1.65	1.28	2.81	0.78
unico	53	Max WS	A TR_30 8H	1.80	275.43	276.05	275.97	276.18	0.011636	1.58	1.14	2.67	0.78
unico	53	Max WS	A TR_30 12H	1.40	275.43	275.98	275.90	276.09	0.011519	1.48	0.95	2.47	0.76
unico	52	Max WS	A TR_200 1H	6.47	274.29	275.37	275.34	275.68	0.015206	2.43	2.66	3.92	0.94
unico	52	Max WS	A TR_200 2H	6.39	274.29	275.37	275.34	275.67	0.015249	2.43	2.63	3.90	0.94
unico	52	Max WS	A TR_200 3H	5.60	274.29	275.30	275.27	275.58	0.015197	2.34	2.39	3.73	0.93
unico	52	Max WS	A TR_200 4H	4.90	274.29	275.24	275.21	275.50	0.015059	2.26	2.17	3.57	0.92
unico	52	Max WS	A TR_200 6H	4.00	274.29	275.16	275.11	275.39	0.014891	2.14	1.87	3.33	0.91
unico	52	Max WS	A TR_200 8H	3.40	274.29	275.09	275.05	275.31	0.014905	2.05	1.66	3.16	0.90
unico	52	Max WS	A TR_200 12H	2.60	274.29	274.99	274.95	275.18	0.014756	1.90	1.37	2.89	0.88
unico	52	Max WS	A TR_30 1H	3.20	274.29	275.07	275.03	275.28	0.014724	2.01	1.59	3.10	0.89
unico	52	Max WS	A TR_30 2H	3.30	274.29	275.08	275.04	275.29	0.014857	2.03	1.63	3.13	0.90
unico	52	Max WS	A TR_30 3H	2.90	274.29	275.03	274.99	275.23	0.014755	1.96	1.48	3.00	0.89
unico	52	Max WS	A TR_30 4H	2.60	274.29	274.99	274.95	275.18	0.014756	1.90	1.37	2.89	0.88
unico	52	Max WS	A TR_30 6H	2.10	274.29	274.92	274.88	275.09	0.014625	1.79	1.17	2.71	0.87
unico	52	Max WS	A TR_30 8H	1.80	274.29	274.88	274.83	275.03	0.014595	1.72	1.05	2.58	0.86
unico	52	Max WS	A TR_30 12H	1.40	274.29	274.81	274.76	274.94	0.014545	1.61	0.87	2.39	0.85
unico	51	Max WS	A TR_200 1H	6.46	272.79	273.92	273.72	274.07	0.006788	1.70	3.81	5.70	0.66
unico	51	Max WS	A TR_200 2H	6.39	272.79	273.92	273.71	274.06	0.006657	1.68	3.80	5.70	0.66
unico	51	Max WS	A TR_200 3H	5.60	272.79	273.85	273.66	273.99	0.006725	1.63	3.43	5.42	0.65
unico	51	Max WS	A TR_200 4H	4.90	272.79	273.79	273.60	273.92	0.006762	1.58	3.10	5.16	0.65
unico	51	Max WS	A TR_200 6H	4.00	272.79	273.70	273.53	273.82	0.006832	1.51	2.66	4.79	0.65
unico	51	Max WS	A TR_200 8H	3.40	272.79	273.63	273.47	273.74	0.006904	1.45	2.34	4.52	0.64
unico	51	Max WS	A TR_200 12H	2.60	272.79	273.53	273.38	273.63	0.006982	1.36	1.91	4.10	0.64
unico	51	Max WS	A TR_30 1H	3.20	272.79	273.61	273.45	273.71	0.006960	1.43	2.23	4.41	0.64
unico	51	Max WS	A TR_30 2H	3.30	272.79	273.62	273.46	273.73	0.006886	1.44	2.29	4.47	0.64
unico	51	Max WS	A TR_30 3H	2.90	272.79	273.57	273.42	273.67	0.006956	1.40	2.08	4.26	0.64
unico	51	Max WS	A TR_30 4H	2.60	272.79	273.53	273.38	273.63	0.006982	1.36	1.91	4.10	0.64
unico	51	Max WS	A TR_30 6H	2.10	272.79	273.46	273.32	273.55	0.007067	1.29	1.62	3.80	0.63
unico	51	Max WS	A TR_30 8H	1.80	272.79	273.42	273.28	273.49	0.007032	1.24	1.45	3.61	0.62
unico	51	Max WS	A TR_30 12H	1.40	272.79	273.34	273.22	273.41	0.007138	1.17	1.20	3.30	0.62
unico	50	Max WS	A TR_200 1H	6.46	272.07	273.18	273.13	273.44	0.013380	2.26	2.86	4.43	0.90
unico	50	Max WS	A TR_200 2H	6.39	272.07	273.17	273.12	273.44	0.013648	2.27	2.81	4.40	0.91
unico	50	Max WS	A TR_200 3H	5.60	272.07	273.11	273.06	273.36	0.013642	2.20	2.55	4.19	0.90
unico	50	Max WS	A TR_200 4H	4.90	272.07	273.05	273.00	273.28	0.013768	2.13	2.30	3.99	0.90
unico	50	Max WS	A TR_200 6H	4.00	272.07	272.97	272.92	273.18	0.013846	2.03	1.97	3.70	0.89
unico	50	Max WS	A TR_200 8H	3.40	272.07	272.90	272.85	273.10	0.013830	1.95	1.75	3.49	0.88
unico	50	Max WS	A TR_200 12H	2.60	272.07	272.81	272.76	272.98	0.013929	1.82	1.42	3.17	0.87
unico	50	Max WS	A TR_30 1H	3.20	272.07	272.88	272.83	273.07	0.013931	1.92	1.66	3.41	0.88
unico	50	Max WS	A TR_30 2H	3.30	272.07	272.89	272.84	273.08	0.013889	1.94	1.70	3.45	0.88
unico	50	Max WS	A TR_30 3H	2.90	272.07	272.84	272.79	273.02	0.013973	1.88	1.54	3.29	0.88
unico	50	Max WS	A TR_30 4H	2.60	272.07	272.81	272.76	272.98	0.013928	1.82	1.42	3.17	0.87
unico	50	Max WS	A TR_30 6H	2.10	272.07	272.74	272.69	272.89	0.014081	1.74	1.21	2.93	0.86
unico	50	Max WS	A TR_30 8H	1.80	272.07	272.69	272.65	272.83	0.014207	1.67	1.08	2.77	0.86
unico	50	Max WS	A TR_30 12H	1.40	272.07	272.62	272.58	272.75	0.014101	1.57	0.89	2.55	0.84
unico	49	Max WS	A TR_200 1H	6.44	270.78	272.49	271.88	272.56	0.002210	1.12	5.76	6.55	0.38

HEC-RAS River: Maramocco Reach: unico 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)	
unico	49	Max WS	A TR_200 2H	6.38	270.78	272.49	271.88	272.55	0.002224	1.12	5.71	6.52	0.38
unico	49	Max WS	A TR_200 3H	5.60	270.78	272.37	271.81	272.44	0.002441	1.12	4.99	6.07	0.40
unico	49	Max WS	A TR_200 4H	4.90	270.78	272.26	271.74	272.33	0.002655	1.13	4.35	5.59	0.41
unico	49	Max WS	A TR_200 6H	4.00	270.78	272.11	271.64	272.17	0.002986	1.13	3.54	4.92	0.42
unico	49	Max WS	A TR_200 8H	3.40	270.78	272.00	271.58	272.06	0.003232	1.13	3.01	4.42	0.44
unico	49	Max WS	A TR_200 12H	2.60	270.78	271.83	271.48	271.89	0.003541	1.12	2.33	3.69	0.45
unico	49	Max WS	A TR_30 1H	3.20	270.78	271.96	271.55	272.02	0.003318	1.13	2.84	4.25	0.44
unico	49	Max WS	A TR_30 2H	3.30	270.78	271.98	271.57	272.04	0.003276	1.13	2.93	4.34	0.44
unico	49	Max WS	A TR_30 3H	2.90	270.78	271.89	271.52	271.96	0.003435	1.12	2.58	3.98	0.44
unico	49	Max WS	A TR_30 4H	2.60	270.78	271.83	271.48	271.89	0.003541	1.12	2.33	3.69	0.45
unico	49	Max WS	A TR_30 6H	2.10	270.78	271.71	271.40	271.77	0.003770	1.09	1.92	3.29	0.46
unico	49	Max WS	A TR_30 8H	1.80	270.78	271.63	271.36	271.69	0.004010	1.07	1.68	3.09	0.47
unico	49	Max WS	A TR_30 12H	1.40	270.78	271.52	271.28	271.57	0.004422	1.04	1.34	2.79	0.48
unico	48.5			Inl Struct									
unico	48	Max WS	A TR_200 1H	6.45	268.07	270.23	268.78	270.27	0.001000	0.88	7.37	3.42	0.19
unico	48	Max WS	A TR_200 2H	6.38	268.07	270.22	268.77	270.26	0.000986	0.87	7.35	3.42	0.19
unico	48	Max WS	A TR_200 3H	5.60	268.07	270.08	268.72	270.12	0.000900	0.81	6.88	3.42	0.18
unico	48	Max WS	A TR_200 4H	4.90	268.07	269.96	268.66	269.99	0.000818	0.76	6.45	3.42	0.18
unico	48	Max WS	A TR_200 6H	4.00	268.07	269.78	268.59	269.81	0.000704	0.68	5.86	3.42	0.17
unico	48	Max WS	A TR_200 8H	3.40	268.07	269.66	268.53	269.68	0.000620	0.63	5.44	3.42	0.16
unico	48	Max WS	A TR_200 12H	2.60	268.07	269.48	268.46	269.50	0.000499	0.54	4.83	3.42	0.14
unico	48	Max WS	A TR_30 1H	3.20	268.07	269.62	268.52	269.64	0.000593	0.61	5.28	3.42	0.16
unico	48	Max WS	A TR_30 2H	3.30	268.07	269.64	268.52	269.66	0.000606	0.62	5.36	3.42	0.16
unico	48	Max WS	A TR_30 3H	2.90	268.07	269.55	268.49	269.57	0.000546	0.57	5.07	3.42	0.15
unico	48	Max WS	A TR_30 4H	2.60	268.07	269.48	268.46	269.50	0.000499	0.54	4.83	3.42	0.14
unico	48	Max WS	A TR_30 6H	2.10	268.07	269.36	268.41	269.38	0.000415	0.47	4.42	3.42	0.13
unico	48	Max WS	A TR_30 8H	1.80	268.07	269.29	268.38	269.30	0.000361	0.43	4.16	3.42	0.13
unico	48	Max WS	A TR_30 12H	1.40	268.07	269.18	268.33	269.19	0.000284	0.37	3.79	3.42	0.11
unico	47.9	Max WS	A TR_200 1H	6.45	268.06	270.17		270.27	0.000868	1.39	4.65	3.42	0.30
unico	47.9	Max WS	A TR_200 2H	6.38	268.06	270.16		270.26	0.000864	1.38	4.63	3.42	0.30
unico	47.9	Max WS	A TR_200 3H	5.60	268.06	270.03		270.12	0.000821	1.29	4.34	3.42	0.29
unico	47.9	Max WS	A TR_200 4H	4.90	268.06	269.91		269.99	0.000776	1.20	4.08	3.42	0.28
unico	47.9	Max WS	A TR_200 6H	4.00	268.06	269.75		269.81	0.000705	1.08	3.72	3.42	0.26
unico	47.9	Max WS	A TR_200 8H	3.40	268.06	269.63		269.68	0.000648	0.98	3.46	3.42	0.25
unico	47.9	Max WS	A TR_200 12H	2.60	268.06	269.46		269.50	0.000553	0.84	3.09	3.42	0.23
unico	47.9	Max WS	A TR_30 1H	3.20	268.06	269.59		269.64	0.000626	0.95	3.37	3.42	0.24
unico	47.9	Max WS	A TR_30 2H	3.30	268.06	269.61		269.66	0.000637	0.97	3.41	3.42	0.25
unico	47.9	Max WS	A TR_30 3H	2.90	268.06	269.53		269.57	0.000592	0.90	3.23	3.42	0.24
unico	47.9	Max WS	A TR_30 4H	2.60	268.06	269.46		269.50	0.000553	0.84	3.09	3.42	0.23
unico	47.9	Max WS	A TR_30 6H	2.10	268.06	269.35		269.38	0.000480	0.74	2.83	3.42	0.21
unico	47.9	Max WS	A TR_30 8H	1.80	268.06	269.27		269.30	0.000430	0.67	2.67	3.42	0.20
unico	47.9	Max WS	A TR_30 12H	1.40	268.06	269.17		269.19	0.000352	0.57	2.44	3.42	0.17
unico	47.5			Culvert									
unico	47	Max WS	A TR_200 1H	6.45	266.60	267.55	267.59	268.07	0.014521	3.19	2.02	3.50	1.06
unico	47	Max WS	A TR_200 2H	6.38	266.60	267.54	267.58	268.06	0.014735	3.19	2.00	3.48	1.07
unico	47	Max WS	A TR_200 3H	5.60	266.60	267.46	267.50	267.94	0.015062	3.05	1.84	3.37	1.06
unico	47	Max WS	A TR_200 4H	4.90	266.60	267.40	267.43	267.83	0.014945	2.88	1.70	3.28	1.05
unico	47	Max WS	A TR_200 6H	4.00	266.60	267.31	267.33	267.67	0.015383	2.68	1.49	3.13	1.04
unico	47	Max WS	A TR_200 8H	3.40	266.60	267.24	267.26	267.57	0.015597	2.52	1.35	3.03	1.03
unico	47	Max WS	A TR_200 12H	2.60	266.60	267.15	267.15	267.41	0.016197	2.29	1.13	2.89	1.02
unico	47	Max WS	A TR_30 1H	3.20	266.60	267.22	267.23	267.53	0.015745	2.47	1.30	3.00	1.03
unico	47	Max WS	A TR_30 2H	3.30	266.60	267.23	267.24	267.55	0.015680	2.50	1.32	3.02	1.03
unico	47	Max WS	A TR_30 3H	2.90	266.60	267.18	267.19	267.47	0.016063	2.39	1.21	2.94	1.03
unico	47	Max WS	A TR_30 4H	2.60	266.60	267.15	267.15	267.41	0.016196	2.29	1.13	2.89	1.02
unico	47	Max WS	A TR_30 6H	2.10	266.60	267.08	267.08	267.31	0.016851	2.13	0.99	2.78	1.02
unico	47	Max WS	A TR_30 8H	1.80	266.60	267.04	267.04	267.24	0.017193	2.01	0.89	2.72	1.01
unico	47	Max WS	A TR_30 12H	1.40	266.60	266.97	266.98	267.15	0.017990	1.85	0.76	2.63	1.00
unico	46	Max WS	A TR_200 1H	6.44	265.91	267.14	266.99	267.38	0.011934	2.18	2.95	3.71	0.78
unico	46	Max WS	A TR_200 2H	6.38	265.91	267.13	266.99	267.37	0.012041	2.18	2.92	3.69	0.78
unico	46	Max WS	A TR_200 3H	5.56	265.91	267.01	266.91	267.26	0.013677	2.21	2.51	3.45	0.83
unico	46	Max WS	A TR_200 4H	4.90	265.91	266.98	266.85	267.19	0.011953	2.04	2.40	3.38	0.77
unico	46	Max WS	A TR_200 6H	3.98	265.91	266.85	266.74	267.06	0.013314	2.01	1.97	3.10	0.81
unico	46	Max WS	A TR_200 8H	3.40	265.91	266.79	266.68	266.97	0.012338	1.88	1.81	2.99	0.77
unico	46	Max WS	A TR_200 12H	2.60	265.91	266.68	266.57	266.84	0.012213	1.75	1.48	2.75	0.76
unico	46	Max WS	A TR_30 1H	3.20	265.91	266.74	266.65	266.93	0.013619	1.92	1.66	2.88	0.81
unico	46	Max WS	A TR_30 2H	3.30	265.91	266.77	266.67	266.95	0.012820	1.89	1.74	2.94	0.79
unico	46	Max WS	A TR_30 3H	2.83	265.91	266.69	266.60	266.87	0.013603	1.86	1.52	2.78	0.80
unico	46	Max WS	A TR_30 4H	2.60	265.91	266.68	266.57	266.84	0.012226	1.75	1.48	2.75	0.76
unico	46	Max WS	A TR_30 6H	2.07	265.91	266.63	266.49	266.75	0.010052	1.54	1.35	2.64	0.69
unico	46	Max WS	A TR_30 8H	1.76	265.91	266.54	266.44	266.67	0.011836	1.56	1.13	2.46	0.74
unico	46	Max WS	A TR_30 12H	1.33	265.91	266.48	266.37	266.57	0.010187	1.38	0.97	2.32	0.68
unico	45.5			Bridge									
unico	45	Max WS	A TR_200 1H	6.44	265.78	267.10	266.81	267.28	0.006513	1.86	3.47	4.20	0.62
unico	45	Max WS	A TR_200 2H	6.38	265.78	267.09	266.81	267.27	0.006632	1.86	3.43	4.16	0.63
unico	45	Max WS	A TR_200 3H	5.60	265.78	267.02	266.74	267.18	0.006435	1.77	3.16	3.96	0.61
unico	45	Max WS	A TR_200 4H	4.90	265.78	266.95	266.67	267.10	0.006268	1.69	2.90	3.75	0.60
unico	45	Max WS	A TR_200 6H	4.00	265.78	266.84	266.57	266.97	0.006167	1.58	2.53	3.45	0.58
unico	45	Max WS	A TR_200 8H	3.40	265.78	266.76	266.50	266.88	0.006096	1.50	2.26	3.24	0.57
unico	45	Max WS	A TR_200 12H	2.60	265.78	266.64	266.40	266.74	0.005910	1.38	1.88	3.02	0.56
unico	45	Max WS	A TR_30 1H	3.20	265.78	266.73	266.48	266.85	0.006050	1.47	2.17	3.19	0.57
unico	45	Max WS	A TR_30 2H	3.30	265.78	266.75	266.49	266.86	0.006072	1.49	2.22	3.22	0.57
unico	45	Max WS	A TR_30 3H	2.90	265.78	266.69	266.44	266.79	0.006003	1.43	2.03	3.10	0.57
unico	45	Max WS	A TR_30 4H	2.60	265.78	266.64	266.40	266.74	0.005910	1.38	1.88	3.02	0.56

HEC-RAS River: Maramocco Reach: unico 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)	
unico	45	Max WS	A TR_30 6H	2.10	265.78	266.55	266.33	266.64	0.005792	1.30	1.62	2.85	0.55
unico	45	Max WS	A TR_30 8H	1.80	265.78	266.49	266.28	266.57	0.005737	1.24	1.45	2.74	0.54
unico	45	Max WS	A TR_30 12H	1.40	265.78	266.41	266.21	266.47	0.005606	1.15	1.22	2.57	0.53
unico	44.2258	Max WS	A TR_200 1H	5.56	265.08	266.50	265.96	266.56	0.001952	1.06	5.24	6.05	0.36
unico	44.2258	Max WS	A TR_200 2H	5.47	265.08	266.50	265.95	266.56	0.001901	1.05	5.22	6.04	0.36
unico	44.2258	Max WS	A TR_200 3H	5.43	265.08	266.50	265.95	266.55	0.001883	1.04	5.21	6.04	0.36
unico	44.2258	Max WS	A TR_200 4H	4.90	265.08	266.37	265.90	266.43	0.002299	1.09	4.49	5.65	0.39
unico	44.2258	Max WS	A TR_200 6H	4.00	265.08	266.19	265.83	266.26	0.002997	1.14	3.51	5.09	0.44
unico	44.2258	Max WS	A TR_200 8H	3.40	265.08	266.10	265.77	266.17	0.003117	1.11	3.07	4.81	0.44
unico	44.2258	Max WS	A TR_200 12H	2.60	265.08	265.98	265.69	266.03	0.003275	1.05	2.48	4.42	0.45
unico	44.2258	Max WS	A TR_30 1H	3.19	265.08	266.07	265.75	266.13	0.003172	1.10	2.92	4.71	0.44
unico	44.2258	Max WS	A TR_30 2H	3.30	265.08	266.09	265.76	266.15	0.003146	1.10	2.99	4.76	0.44
unico	44.2258	Max WS	A TR_30 3H	2.90	265.08	266.03	265.72	266.08	0.003196	1.07	2.71	4.57	0.44
unico	44.2258	Max WS	A TR_30 4H	2.60	265.08	265.98	265.69	266.03	0.003275	1.05	2.48	4.42	0.45
unico	44.2258	Max WS	A TR_30 6H	2.10	265.08	265.89	265.63	265.94	0.003366	1.00	2.11	4.14	0.45
unico	44.2258	Max WS	A TR_30 8H	1.80	265.08	265.83	265.59	265.88	0.003462	0.96	1.87	3.96	0.45
unico	44.2258	Max WS	A TR_30 12H	1.40	265.08	265.74	265.53	265.79	0.003562	0.91	1.55	3.70	0.45
unico	44.21			Lat Struct									
unico	44.2			Lat Struct									
unico	44	Max WS	A TR_200 1H	5.42	264.88	266.45	265.67	266.51	0.001062	1.15	4.72	7.06	0.31
unico	44	Max WS	A TR_200 2H	5.43	264.88	266.44	265.67	266.51	0.001075	1.15	4.71	7.05	0.31
unico	44	Max WS	A TR_200 3H	5.42	264.88	266.44	265.66	266.51	0.001074	1.15	4.71	7.05	0.31
unico	44	Max WS	A TR_200 4H	4.90	264.88	266.31	265.62	266.38	0.001194	1.14	4.29	6.64	0.32
unico	44	Max WS	A TR_200 6H	4.00	264.88	266.13	265.55	266.19	0.001330	1.09	3.68	6.03	0.33
unico	44	Max WS	A TR_200 8H	3.40	264.88	266.04	265.49	266.10	0.001249	1.00	3.40	5.75	0.31
unico	44	Max WS	A TR_200 12H	2.60	264.88	265.92	265.41	265.96	0.001113	0.87	3.00	5.35	0.29
unico	44	Max WS	A TR_30 1H	3.19	264.88	266.01	265.47	266.06	0.001237	0.97	3.28	5.64	0.31
unico	44	Max WS	A TR_30 2H	3.30	264.88	266.03	265.48	266.08	0.001236	0.98	3.35	5.70	0.31
unico	44	Max WS	A TR_30 3H	2.90	264.88	265.97	265.44	266.01	0.001162	0.92	3.16	5.51	0.30
unico	44	Max WS	A TR_30 4H	2.60	264.88	265.92	265.41	265.96	0.001113	0.87	3.00	5.35	0.29
unico	44	Max WS	A TR_30 6H	2.10	264.88	265.84	265.36	265.87	0.001005	0.77	2.72	5.07	0.27
unico	44	Max WS	A TR_30 8H	1.80	264.88	265.78	265.33	265.81	0.000943	0.71	2.53	4.88	0.26
unico	44	Max WS	A TR_30 12H	1.40	264.88	265.70	265.28	265.72	0.000832	0.62	2.26	4.61	0.24
unico	43.5			Bridge									
unico	43	Max WS	A TR_200 1H	6.44	265.05	266.18	265.92	266.39	0.005173	2.00	3.22	5.27	0.64
unico	43	Max WS	A TR_200 2H	6.38	265.05	266.18	265.92	266.38	0.005140	1.99	3.21	5.26	0.63
unico	43	Max WS	A TR_200 3H	5.90	265.05	266.14	265.88	266.33	0.004991	1.91	3.09	5.15	0.62
unico	43	Max WS	A TR_200 4H	4.90	265.05	266.06	265.80	266.22	0.004577	1.73	2.84	4.92	0.59
unico	43	Max WS	A TR_200 6H	4.00	265.05	265.98	265.72	266.10	0.004271	1.56	2.57	4.68	0.56
unico	43	Max WS	A TR_200 8H	3.40	265.05	265.91	265.66	266.02	0.004090	1.44	2.36	4.49	0.54
unico	43	Max WS	A TR_200 12H	2.60	265.05	265.81	265.58	265.90	0.003871	1.27	2.04	4.21	0.51
unico	43	Max WS	A TR_30 1H	3.19	265.05	265.87	265.65	265.98	0.004318	1.43	2.23	4.38	0.55
unico	43	Max WS	A TR_30 2H	3.30	265.05	265.90	265.65	266.00	0.004080	1.42	2.32	4.45	0.53
unico	43	Max WS	A TR_30 3H	2.90	265.05	265.85	265.61	265.94	0.003955	1.34	2.16	4.32	0.52
unico	43	Max WS	A TR_30 4H	2.60	265.05	265.81	265.58	265.90	0.003875	1.27	2.04	4.21	0.51
unico	43	Max WS	A TR_30 6H	2.10	265.05	265.74	265.53	265.81	0.003768	1.16	1.81	4.00	0.49
unico	43	Max WS	A TR_30 8H	1.80	265.05	265.69	265.49	265.75	0.003735	1.09	1.65	3.86	0.48
unico	43	Max WS	A TR_30 12H	1.40	265.05	265.62	265.44	265.67	0.003706	0.98	1.43	3.65	0.47
unico	42	Max WS	A TR_200 1H	6.44	264.95	266.05	265.90	266.27	0.009903	2.09	3.09	4.11	0.77
unico	42	Max WS	A TR_200 2H	6.39	264.95	266.04	265.90	266.26	0.009897	2.08	3.07	4.10	0.77
unico	42	Max WS	A TR_200 3H	5.93	264.95	266.00	265.86	266.21	0.010008	2.05	2.89	4.00	0.77
unico	42	Max WS	A TR_200 4H	4.92	264.95	265.91	265.77	266.10	0.009864	1.94	2.54	3.78	0.76
unico	42	Max WS	A TR_200 6H	4.02	264.95	265.81	265.68	265.98	0.009777	1.83	2.19	3.57	0.75
unico	42	Max WS	A TR_200 8H	3.41	264.95	265.74	265.62	265.90	0.009666	1.75	1.96	3.41	0.74
unico	42	Max WS	A TR_200 12H	2.61	264.95	265.64	265.53	265.77	0.009488	1.61	1.62	3.17	0.72
unico	42	Max WS	A TR_30 1H	3.20	264.95	265.72	265.60	265.87	0.009657	1.71	1.87	3.35	0.73
unico	42	Max WS	A TR_30 2H	3.31	264.95	265.73	265.61	265.88	0.009655	1.73	1.91	3.38	0.73
unico	42	Max WS	A TR_30 3H	2.91	264.95	265.68	265.56	265.82	0.009582	1.67	1.75	3.27	0.73
unico	42	Max WS	A TR_30 4H	2.61	264.95	265.64	265.52	265.77	0.009484	1.61	1.62	3.17	0.72
unico	42	Max WS	A TR_30 6H	2.11	264.95	265.57	265.46	265.69	0.009327	1.51	1.40	3.01	0.71
unico	42	Max WS	A TR_30 8H	1.81	264.95	265.52	265.42	265.63	0.009181	1.44	1.26	2.90	0.70
unico	42	Max WS	A TR_30 12H	1.41	264.95	265.45	265.35	265.54	0.008909	1.32	1.06	2.74	0.68
unico	41.5			Inl Struct									
unico	41	Max WS	A TR_200 1H	6.44	263.67	264.90	264.72	265.12	0.009367	2.09	3.08	3.72	0.73
unico	41	Max WS	A TR_200 2H	6.39	263.67	264.87	264.71	265.11	0.010109	2.15	2.98	3.67	0.76
unico	41	Max WS	A TR_200 3H	5.99	263.67	264.83	264.68	265.06	0.010108	2.11	2.84	3.60	0.76
unico	41	Max WS	A TR_200 4H	4.92	263.67	264.75	264.58	264.94	0.009183	1.93	2.54	3.45	0.72
unico	41	Max WS	A TR_200 6H	4.02	263.67	264.66	264.49	264.82	0.008618	1.79	2.24	3.30	0.69
unico	41	Max WS	A TR_200 8H	3.41	263.67	264.59	264.42	264.74	0.008221	1.68	2.03	3.18	0.67
unico	41	Max WS	A TR_200 12H	2.61	263.67	264.49	264.32	264.61	0.007635	1.52	1.72	3.00	0.64
unico	41	Max WS	A TR_30 1H	3.20	263.67	264.58	264.40	264.71	0.007814	1.62	1.97	3.15	0.65
unico	41	Max WS	A TR_30 2H	3.31	263.67	264.58	264.41	264.72	0.008204	1.67	1.98	3.16	0.67
unico	41	Max WS	A TR_30 3H	2.91	263.67	264.53	264.36	264.66	0.007869	1.58	1.84	3.07	0.65
unico	41	Max WS	A TR_30 4H	2.61	263.67	264.49	264.32	264.61	0.007613	1.52	1.72	3.00	0.64
unico	41	Max WS	A TR_30 6H	2.11	263.67	264.42	264.26	264.52	0.007219	1.40	1.50	2.88	0.62
unico	41	Max WS	A TR_30 8H	1.81	263.67	264.37	264.21	264.46	0.006970	1.33	1.36	2.79	0.61
unico	41	Max WS	A TR_30 12H	1.41	263.67	264.30	264.15	264.37	0.006590	1.21	1.16	2.66	0.58
unico	40.6666	Max WS	A TR_200 1H	6.45	263.56	264.84	264.63	265.03	0.007765	1.91	3.38	4.30	0.69
unico	40.6666	Max WS	A TR_200 2H	6.40	263.56	264.83	264.63	265.02	0.007967	1.92	3.33	4.27	0.70
unico	40.6666	Max WS	A TR_200 3H	5.96	263.56	264.79	264.59	264.97	0.007971	1.89	3.16	4.18	0.69
unico	40.6666	Max WS	A TR_200 4H	4.93	263.56	264.70	264.50	264.86	0.007464	1.75	2.81	3.99	0.67

HEC-RAS River: Maramocco Reach: unico 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)	
unico	40.6666	Max WS	A TR_200 6H	4.02	263.56	264.61	264.42	264.75	0.007192	1.64	2.46	3.79	0.65
unico	40.6666	Max WS	A TR_200 8H	3.42	263.56	264.54	264.36	264.67	0.007001	1.55	2.21	3.64	0.64
unico	40.6666	Max WS	A TR_200 12H	2.61	263.56	264.44	264.27	264.54	0.006728	1.42	1.84	3.41	0.62
unico	40.6666	Max WS	A TR_30 1H	3.20	263.56	264.52	264.33	264.64	0.006915	1.52	2.11	3.58	0.63
unico	40.6666	Max WS	A TR_30 2H	3.31	263.56	264.53	264.35	264.65	0.007011	1.54	2.15	3.61	0.63
unico	40.6666	Max WS	A TR_30 3H	2.91	263.56	264.48	264.30	264.59	0.006820	1.47	1.98	3.50	0.62
unico	40.6666	Max WS	A TR_30 4H	2.61	263.56	264.44	264.27	264.54	0.006710	1.42	1.85	3.41	0.61
unico	40.6666	Max WS	A TR_30 6H	2.11	263.56	264.37	264.20	264.46	0.006525	1.32	1.60	3.25	0.60
unico	40.6666	Max WS	A TR_30 8H	1.81	263.56	264.32	264.16	264.40	0.006454	1.26	1.44	3.14	0.59
unico	40.6666	Max WS	A TR_30 12H	1.41	263.56	264.25	264.10	264.31	0.006313	1.16	1.22	2.97	0.58
unico	40	Max WS	A TR_200 1H	6.46	263.34	264.72	264.50	264.88	0.007183	1.78	3.63	4.95	0.66
unico	40	Max WS	A TR_200 2H	6.41	263.34	264.72	264.49	264.88	0.007034	1.76	3.64	4.96	0.66
unico	40	Max WS	A TR_200 3H	5.94	263.34	264.68	264.46	264.83	0.007081	1.73	3.43	4.82	0.66
unico	40	Max WS	A TR_200 4H	4.95	263.34	264.59	264.38	264.73	0.006829	1.63	3.03	4.55	0.64
unico	40	Max WS	A TR_200 6H	4.04	263.34	264.50	264.30	264.62	0.006707	1.54	2.63	4.26	0.63
unico	40	Max WS	A TR_200 8H	3.43	263.34	264.43	264.23	264.54	0.006582	1.46	2.34	4.04	0.61
unico	40	Max WS	A TR_200 12H	2.62	263.34	264.33	264.14	264.42	0.006340	1.35	1.95	3.71	0.59
unico	40	Max WS	A TR_30 1H	3.21	263.34	264.40	264.21	264.51	0.006699	1.45	2.22	3.94	0.62
unico	40	Max WS	A TR_30 2H	3.32	263.34	264.42	264.22	264.53	0.006590	1.45	2.28	3.99	0.61
unico	40	Max WS	A TR_30 3H	2.93	263.34	264.37	264.18	264.47	0.006453	1.39	2.10	3.84	0.60
unico	40	Max WS	A TR_30 4H	2.62	263.34	264.33	264.14	264.42	0.006338	1.35	1.95	3.71	0.59
unico	40	Max WS	A TR_30 6H	2.12	263.34	264.26	264.07	264.34	0.006118	1.26	1.69	3.48	0.58
unico	40	Max WS	A TR_30 8H	1.82	263.34	264.21	264.03	264.28	0.005980	1.19	1.52	3.32	0.56
unico	40	Max WS	A TR_30 12H	1.42	263.34	264.14	263.96	264.20	0.005690	1.10	1.29	3.09	0.54
unico	39	Max WS	A TR_200 1H	6.48	263.33	264.31	264.16	264.50	0.008300	1.89	3.42	4.96	0.73
unico	39	Max WS	A TR_200 2H	6.45	263.33	264.31	264.16	264.49	0.008368	1.90	3.40	4.95	0.73
unico	39	Max WS	A TR_200 3H	5.93	263.33	264.26	264.12	264.44	0.008607	1.87	3.17	4.81	0.74
unico	39	Max WS	A TR_200 4H	5.00	263.33	264.17	264.05	264.34	0.009012	1.82	2.75	4.56	0.75
unico	39	Max WS	A TR_200 6H	4.09	263.33	264.08	263.97	264.23	0.009637	1.76	2.33	4.29	0.76
unico	39	Max WS	A TR_200 8H	3.47	263.33	264.01	263.92	264.15	0.010222	1.71	2.03	4.09	0.78
unico	39	Max WS	A TR_200 12H	2.65	263.33	263.90	263.83	264.04	0.011206	1.63	1.62	3.80	0.80
unico	39	Max WS	A TR_30 1H	3.23	263.33	263.98	263.89	264.12	0.010040	1.67	1.94	4.03	0.77
unico	39	Max WS	A TR_30 2H	3.34	263.33	263.99	263.90	264.14	0.010388	1.70	1.96	4.04	0.78
unico	39	Max WS	A TR_30 3H	2.96	263.33	263.94	263.87	264.08	0.010847	1.67	1.77	3.91	0.79
unico	39	Max WS	A TR_30 4H	2.65	263.33	263.90	263.83	264.04	0.011181	1.63	1.63	3.80	0.80
unico	39	Max WS	A TR_30 6H	2.15	263.33	263.83	263.78	263.96	0.011952	1.57	1.37	3.60	0.81
unico	39	Max WS	A TR_30 8H	1.83	263.33	263.79	263.74	263.91	0.012514	1.52	1.21	3.47	0.82
unico	39	Max WS	A TR_30 12H	1.43	263.33	263.73	263.69	263.83	0.013211	1.43	1.00	3.30	0.83
unico	38	Max WS	A TR_200 1H	6.49	262.80	264.09	263.85	264.28	0.006108	1.91	3.40	4.45	0.63
unico	38	Max WS	A TR_200 2H	6.47	262.80	264.09	263.85	264.28	0.006115	1.91	3.40	4.44	0.63
unico	38	Max WS	A TR_200 3H	5.97	262.80	264.04	263.81	264.22	0.006189	1.85	3.22	4.32	0.63
unico	38	Max WS	A TR_200 4H	5.04	262.80	263.96	263.73	264.11	0.006114	1.72	2.92	4.11	0.62
unico	38	Max WS	A TR_200 6H	4.11	262.80	263.87	263.64	264.00	0.006228	1.60	2.57	3.87	0.61
unico	38	Max WS	A TR_200 8H	3.48	262.80	263.79	263.57	263.91	0.006383	1.52	2.29	3.66	0.61
unico	38	Max WS	A TR_200 12H	2.66	262.80	263.67	263.48	263.78	0.006459	1.41	1.88	3.35	0.60
unico	38	Max WS	A TR_30 1H	3.24	262.80	263.76	263.55	263.87	0.006239	1.48	2.20	3.59	0.60
unico	38	Max WS	A TR_30 2H	3.35	262.80	263.77	263.56	263.89	0.006345	1.50	2.23	3.62	0.61
unico	38	Max WS	A TR_30 3H	2.97	262.80	263.71	263.51	263.82	0.006835	1.49	2.00	3.44	0.62
unico	38	Max WS	A TR_30 4H	2.67	262.80	263.67	263.48	263.78	0.006469	1.42	1.89	3.35	0.60
unico	38	Max WS	A TR_30 6H	2.15	262.80	263.59	263.40	263.68	0.006561	1.35	1.60	3.12	0.60
unico	38	Max WS	A TR_30 8H	1.84	262.80	263.54	263.36	263.62	0.006212	1.27	1.46	2.99	0.58
unico	38	Max WS	A TR_30 12H	1.44	262.80	263.46	263.29	263.53	0.006175	1.18	1.22	2.78	0.57
unico	37.5			Bridge									
unico	37	Max WS	A TR_200 1H	6.50	262.84	263.94	263.84	264.20	0.010857	2.27	2.87	4.07	0.82
unico	37	Max WS	A TR_200 2H	6.47	262.84	263.93	263.83	264.20	0.010891	2.26	2.86	4.06	0.82
unico	37	Max WS	A TR_200 3H	5.96	262.84	263.89	263.79	264.14	0.011239	2.21	2.69	3.95	0.82
unico	37	Max WS	A TR_200 4H	5.04	262.84	263.81	263.72	264.03	0.011311	2.10	2.40	3.74	0.82
unico	37	Max WS	A TR_200 6H	4.11	262.84	263.72	263.63	263.92	0.011666	1.98	2.08	3.50	0.81
unico	37	Max WS	A TR_200 8H	3.49	262.84	263.65	263.56	263.83	0.011824	1.89	1.84	3.32	0.81
unico	37	Max WS	A TR_200 12H	2.67	262.84	263.54	263.46	263.70	0.011819	1.76	1.51	3.06	0.80
unico	37	Max WS	A TR_30 1H	3.24	262.84	263.61	263.53	263.79	0.012420	1.89	1.71	3.22	0.83
unico	37	Max WS	A TR_30 2H	3.35	262.84	263.63	263.55	263.81	0.011874	1.88	1.79	3.28	0.81
unico	37	Max WS	A TR_30 3H	2.97	262.84	263.58	263.50	263.75	0.011864	1.82	1.64	3.16	0.81
unico	37	Max WS	A TR_30 4H	2.67	262.84	263.54	263.46	263.70	0.011843	1.76	1.51	3.06	0.80
unico	37	Max WS	A TR_30 6H	2.16	262.84	263.47	263.40	263.61	0.011800	1.67	1.30	2.87	0.79
unico	37	Max WS	A TR_30 8H	1.85	262.84	263.42	263.35	263.55	0.011777	1.59	1.16	2.74	0.78
unico	37	Max WS	A TR_30 12H	1.45	262.84	263.35	263.28	263.46	0.011496	1.48	0.98	2.57	0.76
unico	36.9	Max WS	A TR_200 1H	6.50	262.84	263.92	263.85	264.19	0.012518	2.27	2.86	4.04	0.86
unico	36.9	Max WS	A TR_200 2H	6.47	262.84	263.92	263.84	264.18	0.012497	2.27	2.85	4.03	0.86
unico	36.9	Max WS	A TR_200 3H	5.96	262.84	263.87	263.80	264.13	0.012778	2.24	2.66	3.91	0.87
unico	36.9	Max WS	A TR_200 4H	5.04	262.84	263.79	263.72	264.03	0.012954	2.15	2.34	3.69	0.86
unico	36.9	Max WS	A TR_200 6H	4.11	262.84	263.69	263.63	263.91	0.013198	2.06	2.00	3.44	0.86
unico	36.9	Max WS	A TR_200 8H	3.49	262.84	263.62	263.56	263.82	0.013266	1.98	1.77	3.26	0.86
unico	36.9	Max WS	A TR_200 12H	2.67	262.84	263.52	263.46	263.70	0.013480	1.85	1.44	3.00	0.85
unico	36.9	Max WS	A TR_30 1H	3.24	262.84	263.59	263.53	263.78	0.013533	1.95	1.66	3.18	0.86
unico	36.9	Max WS	A TR_30 2H	3.35	262.84	263.61	263.54	263.80	0.013348	1.96	1.71	3.22	0.86
unico	36.9	Max WS	A TR_30 3H	2.97	262.84	263.56	263.50	263.74	0.013404	1.90	1.56	3.10	0.85
unico	36.9	Max WS	A TR_30 4H	2.67	262.84	263.52	263.46	263.70	0.013484	1.85	1.44	3.00	0.85
unico	36.9	Max WS	A TR_30 6H	2.16	262.84	263.45	263.39	263.61	0.013613	1.76	1.23	2.81	0.85
unico	36.9	Max WS	A TR_30 8H	1.85	262.84	263.40	263.35	263.54	0.013816	1.69	1.09	2.68	0.84
unico	36.9	Max WS	A TR_30 12H	1.45	262.84	263.33	263.28	263.46	0.013655	1.57	0.92	2.51	0.83
unico	36.5			Inl Struct									
unico	36	Max WS	A TR_200 1H	6.50	261.65	263.14	262.92	263.31	0.008251	1.82	3.57	4.95	0.68

HEC-RAS River: Maramocco Reach: unico 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)	
unico	36	Max WS	A TR_200 2H	6.47	261.65	263.14	262.92	263.31	0.008165	1.81	3.57	4.96	0.68
unico	36	Max WS	A TR_200 3H	5.96	261.65	263.10	262.88	263.26	0.008186	1.78	3.35	4.77	0.68
unico	36	Max WS	A TR_200 4H	5.04	261.65	263.01	262.79	263.16	0.008142	1.71	2.95	4.40	0.67
unico	36	Max WS	A TR_200 6H	4.11	261.65	262.90	262.69	263.04	0.008203	1.64	2.51	3.97	0.66
unico	36	Max WS	A TR_200 8H	3.49	261.65	262.82	262.60	262.95	0.008205	1.58	2.21	3.64	0.65
unico	36	Max WS	A TR_200 12H	2.67	261.65	262.70	262.46	262.81	0.008251	1.50	1.78	3.11	0.63
unico	36	Max WS	A TR_30 1H	3.24	261.65	262.78	262.56	262.91	0.008313	1.57	2.07	3.48	0.65
unico	36	Max WS	A TR_30 2H	3.35	261.65	262.80	262.58	262.93	0.008302	1.58	2.13	3.55	0.65
unico	36	Max WS	A TR_30 3H	2.97	261.65	262.75	262.52	262.87	0.008215	1.53	1.94	3.32	0.64
unico	36	Max WS	A TR_30 4H	2.67	261.65	262.70	262.46	262.81	0.008234	1.50	1.78	3.12	0.63
unico	36	Max WS	A TR_30 6H	2.17	261.65	262.60	262.36	262.71	0.008181	1.44	1.50	2.72	0.62
unico	36	Max WS	A TR_30 8H	1.85	261.65	262.53	262.29	262.63	0.008108	1.40	1.32	2.42	0.61
unico	36	Max WS	A TR_30 12H	1.45	261.65	262.42	262.21	262.51	0.007759	1.34	1.08	1.97	0.58
unico	35	Max WS	A TR_200 1H	6.56	260.84	262.07	261.85	262.23	0.006655	1.73	3.78	5.28	0.65
unico	35	Max WS	A TR_200 2H	6.57	260.84	262.08	261.85	262.23	0.006450	1.72	3.83	5.31	0.64
unico	35	Max WS	A TR_200 3H	6.07	260.84	262.04	261.82	262.18	0.006432	1.68	3.61	5.17	0.64
unico	35	Max WS	A TR_200 4H	5.20	260.84	261.96	261.75	262.10	0.006414	1.61	3.22	4.90	0.63
unico	35	Max WS	A TR_200 6H	4.24	260.84	261.87	261.66	261.99	0.006430	1.53	2.77	4.56	0.63
unico	35	Max WS	A TR_200 8H	3.59	260.84	261.80	261.60	261.90	0.006412	1.47	2.45	4.32	0.62
unico	35	Max WS	A TR_200 12H	2.74	260.84	261.69	261.51	261.78	0.006393	1.37	2.01	3.94	0.61
unico	35	Max WS	A TR_30 1H	3.29	260.84	261.75	261.57	261.86	0.006587	1.45	2.27	4.17	0.63
unico	35	Max WS	A TR_30 2H	3.41	260.84	261.77	261.58	261.88	0.006472	1.45	2.35	4.23	0.62
unico	35	Max WS	A TR_30 3H	3.06	260.84	261.73	261.55	261.83	0.006420	1.41	2.17	4.09	0.62
unico	35	Max WS	A TR_30 4H	2.76	260.84	261.69	261.51	261.79	0.006382	1.37	2.02	3.95	0.61
unico	35	Max WS	A TR_30 6H	2.24	260.84	261.62	261.45	261.70	0.006347	1.29	1.73	3.69	0.60
unico	35	Max WS	A TR_30 8H	1.90	260.84	261.56	261.40	261.64	0.006360	1.24	1.53	3.50	0.60
unico	35	Max WS	A TR_30 12H	1.50	260.84	261.49	261.34	261.56	0.006230	1.15	1.30	3.26	0.58
unico	34	Max WS	A TR_200 1H	6.60	260.26	261.27	261.19	261.53	0.012460	2.26	2.92	4.23	0.87
unico	34	Max WS	A TR_200 2H	6.66	260.26	261.27	261.20	261.53	0.012452	2.26	2.94	4.24	0.87
unico	34	Max WS	A TR_200 3H	6.15	260.26	261.23	261.16	261.48	0.012568	2.22	2.77	4.13	0.87
unico	34	Max WS	A TR_200 4H	5.31	260.26	261.16	261.09	261.39	0.012633	2.14	2.48	3.94	0.86
unico	34	Max WS	A TR_200 6H	4.32	260.26	261.06	261.00	261.27	0.012776	2.04	2.12	3.70	0.86
unico	34	Max WS	A TR_200 8H	3.66	260.26	260.99	260.93	261.19	0.012948	1.96	1.87	3.52	0.86
unico	34	Max WS	A TR_200 12H	2.79	260.26	260.90	260.84	261.06	0.013034	1.82	1.54	3.26	0.85
unico	34	Max WS	A TR_30 1H	3.32	260.26	260.96	260.90	261.14	0.012930	1.90	1.74	3.42	0.85
unico	34	Max WS	A TR_30 2H	3.45	260.26	260.97	260.91	261.16	0.012899	1.92	1.80	3.46	0.85
unico	34	Max WS	A TR_30 3H	3.12	260.26	260.93	260.88	261.11	0.012946	1.87	1.67	3.36	0.85
unico	34	Max WS	A TR_30 4H	2.81	260.26	260.90	260.84	261.07	0.013056	1.82	1.54	3.26	0.85
unico	34	Max WS	A TR_30 6H	2.28	260.26	260.83	260.77	260.98	0.013044	1.72	1.33	3.08	0.84
unico	34	Max WS	A TR_30 8H	1.93	260.26	260.78	260.73	260.92	0.012961	1.64	1.18	2.96	0.83
unico	34	Max WS	A TR_30 12H	1.53	260.26	260.72	260.67	260.84	0.013002	1.53	1.00	2.79	0.82
unico	33.5			Inl Struct									
unico	33	Max WS	A TR_200 1H	6.60	258.82	260.25	259.76	260.35	0.003188	1.37	4.82	5.16	0.45
unico	33	Max WS	A TR_200 2H	6.65	258.82	260.28	259.76	260.37	0.002986	1.34	4.97	5.23	0.44
unico	33	Max WS	A TR_200 3H	6.15	258.82	260.23	259.72	260.32	0.002941	1.30	4.71	5.11	0.43
unico	33	Max WS	A TR_200 4H	5.31	258.82	260.14	259.65	260.22	0.002843	1.24	4.28	4.88	0.42
unico	33	Max WS	A TR_200 6H	4.32	258.82	260.03	259.56	260.10	0.002736	1.16	3.72	4.58	0.41
unico	33	Max WS	A TR_200 8H	3.66	258.82	259.94	259.50	260.00	0.002666	1.10	3.32	4.35	0.40
unico	33	Max WS	A TR_200 12H	2.79	258.82	259.80	259.40	259.86	0.002557	1.01	2.76	4.01	0.39
unico	33	Max WS	A TR_30 1H	3.32	258.82	259.87	259.46	259.94	0.002759	1.09	3.05	4.19	0.41
unico	33	Max WS	A TR_30 2H	3.45	258.82	259.91	259.47	259.97	0.002663	1.09	3.18	4.27	0.40
unico	33	Max WS	A TR_30 3H	3.12	258.82	259.86	259.44	259.91	0.002601	1.05	2.97	4.14	0.39
unico	33	Max WS	A TR_30 4H	2.81	258.82	259.81	259.40	259.86	0.002551	1.01	2.78	4.02	0.39
unico	33	Max WS	A TR_30 6H	2.29	258.82	259.71	259.34	259.76	0.002469	0.95	2.41	3.78	0.38
unico	33	Max WS	A TR_30 8H	1.93	258.82	259.64	259.29	259.68	0.002408	0.90	2.15	3.59	0.37
unico	33	Max WS	A TR_30 12H	1.53	258.82	259.55	259.24	259.59	0.002322	0.83	1.84	3.39	0.36
unico	32	Max WS	A TR_200 1H	6.62	258.56	260.00	259.71	260.17	0.005521	1.86	3.56	4.80	0.60
unico	32	Max WS	A TR_200 2H	6.70	258.56	260.01	259.71	260.19	0.005389	1.86	3.61	4.85	0.59
unico	32	Max WS	A TR_200 3H	6.21	258.56	259.97	259.68	260.13	0.005318	1.79	3.46	4.71	0.58
unico	32	Max WS	A TR_200 4H	5.36	258.56	259.90	259.60	260.04	0.005149	1.68	3.20	4.47	0.57
unico	32	Max WS	A TR_200 6H	4.36	258.56	259.80	259.51	259.92	0.005105	1.54	2.83	4.13	0.55
unico	32	Max WS	A TR_200 8H	3.69	258.56	259.71	259.44	259.82	0.005158	1.45	2.54	3.87	0.55
unico	32	Max WS	A TR_200 12H	2.82	258.56	259.59	259.33	259.68	0.005212	1.33	2.12	3.50	0.54
unico	32	Max WS	A TR_30 1H	3.34	258.56	259.66	259.40	259.76	0.005378	1.43	2.34	3.70	0.55
unico	32	Max WS	A TR_30 2H	3.47	258.56	259.69	259.41	259.79	0.005166	1.42	2.44	3.78	0.55
unico	32	Max WS	A TR_30 3H	3.15	258.56	259.64	259.37	259.74	0.005184	1.38	2.28	3.64	0.54
unico	32	Max WS	A TR_30 4H	2.84	258.56	259.60	259.33	259.69	0.005206	1.34	2.13	3.51	0.54
unico	32	Max WS	A TR_30 6H	2.31	258.56	259.51	259.26	259.59	0.005322	1.26	1.83	3.25	0.54
unico	32	Max WS	A TR_30 8H	1.95	258.56	259.44	259.20	259.51	0.005213	1.20	1.62	3.05	0.53
unico	32	Max WS	A TR_30 12H	1.55	258.56	259.36	259.12	259.42	0.005038	1.12	1.38	2.80	0.51
unico	31.5			Bridge									
unico	31	Max WS	A TR_200 1H	6.62	258.55	259.96	259.69	260.14	0.006364	1.91	3.46	4.42	0.63
unico	31	Max WS	A TR_200 2H	6.70	258.55	259.97	259.70	260.16	0.006139	1.90	3.53	4.48	0.62
unico	31	Max WS	A TR_200 3H	6.21	258.55	259.94	259.66	260.11	0.006030	1.83	3.39	4.35	0.61
unico	31	Max WS	A TR_200 4H	5.36	258.55	259.86	259.58	260.01	0.005898	1.72	3.12	4.08	0.59
unico	31	Max WS	A TR_200 6H	4.36	258.55	259.76	259.48	259.89	0.005955	1.59	2.75	3.71	0.58
unico	31	Max WS	A TR_200 8H	3.69	258.55	259.68	259.40	259.80	0.005819	1.50	2.47	3.51	0.57
unico	31	Max WS	A TR_200 12H	2.82	258.55	259.56	259.30	259.66	0.005441	1.36	2.07	3.23	0.54
unico	31	Max WS	A TR_30 1H	3.34	258.55	259.62	259.36	259.73	0.005965	1.47	2.27	3.37	0.57
unico	31	Max WS	A TR_30 2H	3.47	258.55	259.65	259.38	259.76	0.005761	1.47	2.37	3.44	0.56
unico	31	Max WS	A TR_30 3H	3.15	258.55	259.61	259.34	259.71	0.005595	1.42	2.22	3.34	0.55
unico	31	Max WS	A TR_30 4H	2.84	258.55	259.57	259.30	259.66	0.005446	1.37	2.08	3.23	0.54
unico	31	Max WS	A TR_30 6H	2.31	258.55	259.48	259.22	259.57	0.005160	1.27	1.82	3.04	0.53
unico	31	Max WS	A TR_30 8H	1.95	258.55	259.42	259.16	259.49	0.004922	1.20	1.63	2.89	0.51

HEC-RAS River: Maramocco Reach: unico 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)	
unico	31	Max WS	A TR_30 12H	1.55	258.55	259.34	259.09	259.40	0.004580	1.10	1.41	2.71	0.49
unico	30	Max WS	A TR_200 1H	6.64	258.48	259.51	259.42	259.75	0.011705	2.20	3.01	4.32	0.84
unico	30	Max WS	A TR_200 2H	6.76	258.48	259.52	259.43	259.77	0.011698	2.21	3.05	4.35	0.84
unico	30	Max WS	A TR_200 3H	6.26	258.48	259.48	259.39	259.72	0.011718	2.17	2.88	4.24	0.84
unico	30	Max WS	A TR_200 4H	5.41	258.48	259.41	259.32	259.63	0.011796	2.10	2.58	4.05	0.84
unico	30	Max WS	A TR_200 6H	4.40	258.48	259.31	259.23	259.51	0.011884	1.99	2.21	3.79	0.83
unico	30	Max WS	A TR_200 8H	3.73	258.48	259.24	259.17	259.43	0.011980	1.91	1.95	3.60	0.83
unico	30	Max WS	A TR_200 12H	2.85	258.48	259.14	259.07	259.30	0.011959	1.77	1.61	3.33	0.81
unico	30	Max WS	A TR_30 1H	3.35	258.48	259.20	259.13	259.37	0.011930	1.85	1.81	3.49	0.82
unico	30	Max WS	A TR_30 2H	3.49	258.48	259.22	259.14	259.39	0.011939	1.87	1.87	3.54	0.82
unico	30	Max WS	A TR_30 3H	3.17	258.48	259.18	259.11	259.35	0.011876	1.82	1.74	3.44	0.82
unico	30	Max WS	A TR_30 4H	2.87	258.48	259.14	259.07	259.30	0.011961	1.77	1.62	3.34	0.81
unico	30	Max WS	A TR_30 6H	2.33	258.48	259.08	259.00	259.22	0.011850	1.67	1.40	3.16	0.80
unico	30	Max WS	A TR_30 8H	1.96	258.48	259.02	258.96	259.15	0.011864	1.59	1.23	3.02	0.79
unico	30	Max WS	A TR_30 12H	1.56	258.48	258.96	258.90	259.07	0.011669	1.48	1.05	2.85	0.78
unico	29.5			Inl Struct									
unico	29	Max WS	A TR_200 1H	6.64	257.65	258.70	258.45	258.84	0.005820	1.66	4.00	5.41	0.62
unico	29	Max WS	A TR_200 2H	6.76	257.65	258.72	258.46	258.86	0.005490	1.63	4.14	5.49	0.60
unico	29	Max WS	A TR_200 3H	6.26	257.65	258.68	258.43	258.81	0.005547	1.60	3.90	5.36	0.60
unico	29	Max WS	A TR_200 4H	5.41	257.65	258.60	258.37	258.72	0.005621	1.55	3.50	5.13	0.60
unico	29	Max WS	A TR_200 6H	4.40	257.65	258.50	258.29	258.61	0.005772	1.48	2.98	4.83	0.60
unico	29	Max WS	A TR_200 8H	3.73	257.65	258.42	258.23	258.52	0.005899	1.42	2.63	4.61	0.60
unico	29	Max WS	A TR_200 12H	2.85	257.65	258.31	258.14	258.40	0.006093	1.33	2.14	4.29	0.60
unico	29	Max WS	A TR_30 1H	3.35	257.65	258.37	258.19	258.47	0.006133	1.39	2.40	4.47	0.61
unico	29	Max WS	A TR_30 2H	3.49	257.65	258.39	258.21	258.49	0.005978	1.40	2.50	4.53	0.60
unico	29	Max WS	A TR_30 3H	3.17	257.65	258.36	258.18	258.45	0.005987	1.36	2.33	4.42	0.60
unico	29	Max WS	A TR_30 4H	2.87	257.65	258.32	258.15	258.41	0.006077	1.33	2.16	4.30	0.60
unico	29	Max WS	A TR_30 6H	2.33	257.65	258.24	258.09	258.32	0.006215	1.26	1.85	4.09	0.60
unico	29	Max WS	A TR_30 8H	1.96	257.65	258.19	258.05	258.26	0.006319	1.20	1.63	3.93	0.60
unico	29	Max WS	A TR_30 12H	1.56	257.65	258.12	258.00	258.19	0.006490	1.13	1.38	3.74	0.59
unico	28.2	Max WS	A TR_200 1H	6.67	257.03	258.12	257.98	258.34	0.009685	2.08	3.21	4.34	0.77
unico	28.2	Max WS	A TR_200 2H	6.85	257.03	258.15	257.99	258.36	0.009078	2.04	3.36	4.42	0.75
unico	28.2	Max WS	A TR_200 3H	6.35	257.03	258.12	257.96	258.32	0.008883	1.99	3.20	4.33	0.74
unico	28.2	Max WS	A TR_200 4H	5.50	257.03	258.04	257.89	258.23	0.008888	1.91	2.88	4.15	0.73
unico	28.2	Max WS	A TR_200 6H	4.47	257.03	257.94	257.79	258.11	0.008724	1.80	2.49	3.91	0.72
unico	28.2	Max WS	A TR_200 8H	3.78	257.03	257.87	257.73	258.02	0.008645	1.71	2.21	3.73	0.71
unico	28.2	Max WS	A TR_200 12H	2.89	257.03	257.77	257.63	257.89	0.008418	1.57	1.84	3.48	0.69
unico	28.2	Max WS	A TR_30 1H	3.38	257.03	257.81	257.69	257.96	0.009091	1.69	2.00	3.59	0.72
unico	28.2	Max WS	A TR_30 2H	3.53	257.03	257.84	257.70	257.99	0.008579	1.67	2.11	3.67	0.70
unico	28.2	Max WS	A TR_30 3H	3.22	257.03	257.81	257.67	257.94	0.008366	1.62	1.99	3.59	0.69
unico	28.2	Max WS	A TR_30 4H	2.91	257.03	257.77	257.64	257.90	0.008414	1.58	1.85	3.49	0.69
unico	28.2	Max WS	A TR_30 6H	2.37	257.03	257.70	257.57	257.81	0.008096	1.47	1.61	3.32	0.67
unico	28.2	Max WS	A TR_30 8H	1.99	257.03	257.64	257.52	257.74	0.008133	1.40	1.42	3.17	0.67
unico	28.2	Max WS	A TR_30 12H	1.59	257.03	257.58	257.46	257.66	0.007964	1.30	1.22	3.01	0.65
unico	28	Max WS	A TR_200 1H	6.63	256.88	257.86	257.85	258.19	0.016649	2.55	2.60	3.85	0.99
unico	28	Max WS	A TR_200 2H	6.87	256.88	257.87	257.87	258.21	0.016928	2.59	2.65	3.88	1.00
unico	28	Max WS	A TR_200 3H	6.33	256.88	257.84	257.83	258.16	0.016490	2.51	2.53	3.80	0.98
unico	28	Max WS	A TR_200 4H	5.46	256.88	257.76	257.76	258.06	0.016991	2.44	2.24	3.62	0.99
unico	28	Max WS	A TR_200 6H	4.46	256.88	257.67	257.66	257.95	0.017584	2.34	1.91	3.40	0.99
unico	28	Max WS	A TR_200 8H	3.76	256.88	257.59	257.60	257.85	0.018243	2.26	1.66	3.22	1.00
unico	28	Max WS	A TR_200 12H	2.88	256.88	257.50	257.50	257.73	0.018739	2.12	1.36	2.99	1.00
unico	28	Max WS	A TR_30 1H	3.35	256.88	257.56	257.55	257.80	0.017861	2.17	1.54	3.13	0.99
unico	28	Max WS	A TR_30 2H	3.49	256.88	257.57	257.57	257.82	0.017955	2.20	1.59	3.16	0.99
unico	28	Max WS	A TR_30 3H	3.20	256.88	257.54	257.53	257.77	0.017669	2.14	1.50	3.10	0.98
unico	28	Max WS	A TR_30 4H	2.91	256.88	257.50	257.50	257.73	0.018716	2.12	1.37	3.00	1.00
unico	28	Max WS	A TR_30 6H	2.37	256.88	257.44	257.43	257.64	0.018104	1.98	1.20	2.86	0.98
unico	28	Max WS	A TR_30 8H	1.98	256.88	257.38	257.38	257.57	0.019312	1.92	1.03	2.72	1.00
unico	28	Max WS	A TR_30 12H	1.59	256.88	257.32	257.32	257.49	0.020445	1.84	0.86	2.57	1.01
unico	27.9			Inl Struct									
unico	27.125	Max WS	A TR_200 1H	3.11	254.49	257.23	255.13	257.23	0.000032	0.19	16.12	10.87	0.05
unico	27.125	Max WS	A TR_200 2H	6.46	254.49	257.36	255.42	257.37	0.000106	0.37	17.57	11.33	0.09
unico	27.125	Max WS	A TR_200 3H	6.28	254.49	257.36	255.41	257.36	0.000101	0.36	17.56	11.33	0.09
unico	27.125	Max WS	A TR_200 4H	5.51	254.49	257.32	255.35	257.33	0.000083	0.32	17.17	11.21	0.08
unico	27.125	Max WS	A TR_200 6H	4.48	254.49	257.27	255.26	257.28	0.000061	0.27	16.59	11.02	0.07
unico	27.125	Max WS	A TR_200 8H	3.79	254.49	257.23	255.20	257.24	0.000047	0.23	16.16	10.88	0.06
unico	27.125	Max WS	A TR_200 12H	2.90	254.49	257.15	255.11	257.15	0.000032	0.19	15.28	10.57	0.05
unico	27.125	Max WS	A TR_30 1H	1.00	254.49	256.59	254.85	256.59	0.000012	0.10	9.97	8.33	0.03
unico	27.125	Max WS	A TR_30 2H	1.22	254.49	256.90	254.89	256.90	0.000009	0.10	12.78	9.58	0.03
unico	27.125	Max WS	A TR_30 3H	1.96	254.49	256.98	255.00	256.98	0.000020	0.15	13.51	9.88	0.04
unico	27.125	Max WS	A TR_30 4H	2.17	254.49	256.97	255.03	256.97	0.000025	0.16	13.43	9.84	0.04
unico	27.125	Max WS	A TR_30 6H	2.02	254.49	256.84	255.01	256.84	0.000028	0.17	12.21	9.34	0.05
unico	27.125	Max WS	A TR_30 8H	1.80	254.49	256.69	254.98	256.69	0.000030	0.17	10.81	8.72	0.05
unico	27.125	Max WS	A TR_30 12H	1.58	254.49	256.47	254.94	256.47	0.000037	0.17	9.03	7.87	0.05

HEC-RAS River: Maramocco Reach: unico 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)
unico	44.21	Max WS	A TR_200 1H	5.56	0.00	5.42	0.00					266.90	266.56	266.50	266.51	266.45
unico	44.21	Max WS	A TR_200 2H	5.47	0.00	5.43	0.00					266.90	266.56	266.50	266.51	266.44
unico	44.21	Max WS	A TR_200 3H	5.43	0.00	5.42	0.00					266.90	266.55	266.50	266.51	266.44
unico	44.21	Max WS	A TR_200 4H	4.90	0.00	4.90	0.00					266.90	266.43	266.37	266.38	266.31
unico	44.21	Max WS	A TR_200 6H	4.00	0.00	4.00	0.00					266.90	266.26	266.19	266.19	266.13
unico	44.21	Max WS	A TR_200 8H	3.40	0.00	3.40	0.00					266.90	266.17	266.10	266.10	266.04
unico	44.21	Max WS	A TR_200 12H	2.60	0.00	2.60	0.00					266.90	266.03	265.98	265.96	265.92
unico	44.21	Max WS	A TR_30 1H	3.19	0.00	3.19	0.00					266.90	266.13	266.07	266.06	266.01
unico	44.21	Max WS	A TR_30 2H	3.30	0.00	3.30	0.00					266.90	266.15	266.09	266.08	266.03
unico	44.21	Max WS	A TR_30 3H	2.90	0.00	2.90	0.00					266.90	266.08	266.03	266.01	265.97
unico	44.21	Max WS	A TR_30 4H	2.60	0.00	2.60	0.00					266.90	266.03	265.98	265.96	265.92
unico	44.21	Max WS	A TR_30 6H	2.10	0.00	2.10	0.00					266.90	265.94	265.89	265.87	265.84
unico	44.21	Max WS	A TR_30 8H	1.80	0.00	1.80	0.00					266.90	265.88	265.83	265.81	265.78
unico	44.21	Max WS	A TR_30 12H	1.40	0.00	1.40	0.00					266.90	265.79	265.74	265.72	265.70
unico	44.2	Max WS	A TR_200 1H	5.56	0.00	5.42	0.00					266.66	266.56	266.50	266.51	266.45
unico	44.2	Max WS	A TR_200 2H	5.47	0.00	5.43	0.00					266.66	266.56	266.50	266.51	266.44
unico	44.2	Max WS	A TR_200 3H	5.43	0.00	5.42	0.00					266.66	266.55	266.50	266.51	266.44
unico	44.2	Max WS	A TR_200 4H	4.90	0.00	4.90	0.00					266.66	266.43	266.37	266.38	266.31
unico	44.2	Max WS	A TR_200 6H	4.00	0.00	4.00	0.00					266.66	266.26	266.19	266.19	266.13
unico	44.2	Max WS	A TR_200 8H	3.40	0.00	3.40	0.00					266.66	266.17	266.10	266.10	266.04
unico	44.2	Max WS	A TR_200 12H	2.60	0.00	2.60	0.00					266.66	266.03	265.98	265.96	265.92
unico	44.2	Max WS	A TR_30 1H	3.19	0.00	3.19	0.00					266.66	266.13	266.07	266.06	266.01
unico	44.2	Max WS	A TR_30 2H	3.30	0.00	3.30	0.00					266.66	266.15	266.09	266.08	266.03
unico	44.2	Max WS	A TR_30 3H	2.90	0.00	2.90	0.00					266.66	266.08	266.03	266.01	265.97
unico	44.2	Max WS	A TR_30 4H	2.60	0.00	2.60	0.00					266.66	266.03	265.98	265.96	265.92
unico	44.2	Max WS	A TR_30 6H	2.10	0.00	2.10	0.00					266.66	265.94	265.89	265.87	265.84
unico	44.2	Max WS	A TR_30 8H	1.80	0.00	1.80	0.00					266.66	265.88	265.83	265.81	265.78
unico	44.2	Max WS	A TR_30 12H	1.40	0.00	1.40	0.00					266.66	265.79	265.74	265.72	265.70

TORRENTE DOCCIA

1) A TR_200 3H 2) A TR_30 3H

Fosso Doccia valle

Fosso Doccia Doccia

N.B. in grigio sono indicati gli sfioratori laterali in destra idrografica

Legend

WS Max WS - A TR_200 3H

WS Max WS - A TR_30 3H

Ground

Elevation (m)

280

270

260

250

240

0

1000

2000

3000

Main Channel Distance (m)

1.3333* 1.66666* 02 2.5* 03 4.3333* 4.66666* 05 5.3333* 5.66666* 06 6.33333* 6.66666* 07 7.33333* 7.66666* 08 8.4* 8.8* 9.16666* 9.5* 9.83333* 10.1666* 10.5* 10.8333* 11.1666* 11.5* 11.8333* 12.1666* 12.5* 12.8333* 13.1666* 13.5* 13.8333* 14.1* 14.3* 14.5* 14.7* 14.9* 15.1111* 15.3333* 15.5555* 15.7777* 16 16.2222* 16.4444* 16.6666* 16.8888* 17.1111* 17.3333* 17.5555* 17.7777* 18 19.6666* 20.1* 20.3* 20.5* 20.7* 20.9 21.3684* 21.7368* 22.1* 22.5* 22.9* 23.2647* 23.6352* 24.0933* 24.42* 25 25.2916* 25.5833* 25.875* 26.2222* 26.6666* 27.0833* 27.4166* 27.75* 28.0909* 28.4545* 28.8181* 29.1666* 29.5* 29.8333* 31.3333* 33.1* 33.5* 33.9* 34.25* 34.5833* 34.9166* 35.2727* 35.6363* 36 36.2666* 36.5333* 36.8* 37.0769* 37.3846* 37.6923* 38 38.5*

1 cm Horiz. = 108 m 1 cm Vert. = 2 m

1) A TR_200 3H 2) A TR_30 3H

Fosso Doccia valle

Fosso Doccia Doccia

N.B. in grigio sono indicati gli sfioratori laterali in sinistra idrografica

Legend

WS Max WS - A TR_200 3H

WS Max WS - A TR_30 3H

Ground

Elevation (m)

280

270

260

250

240

0

1000

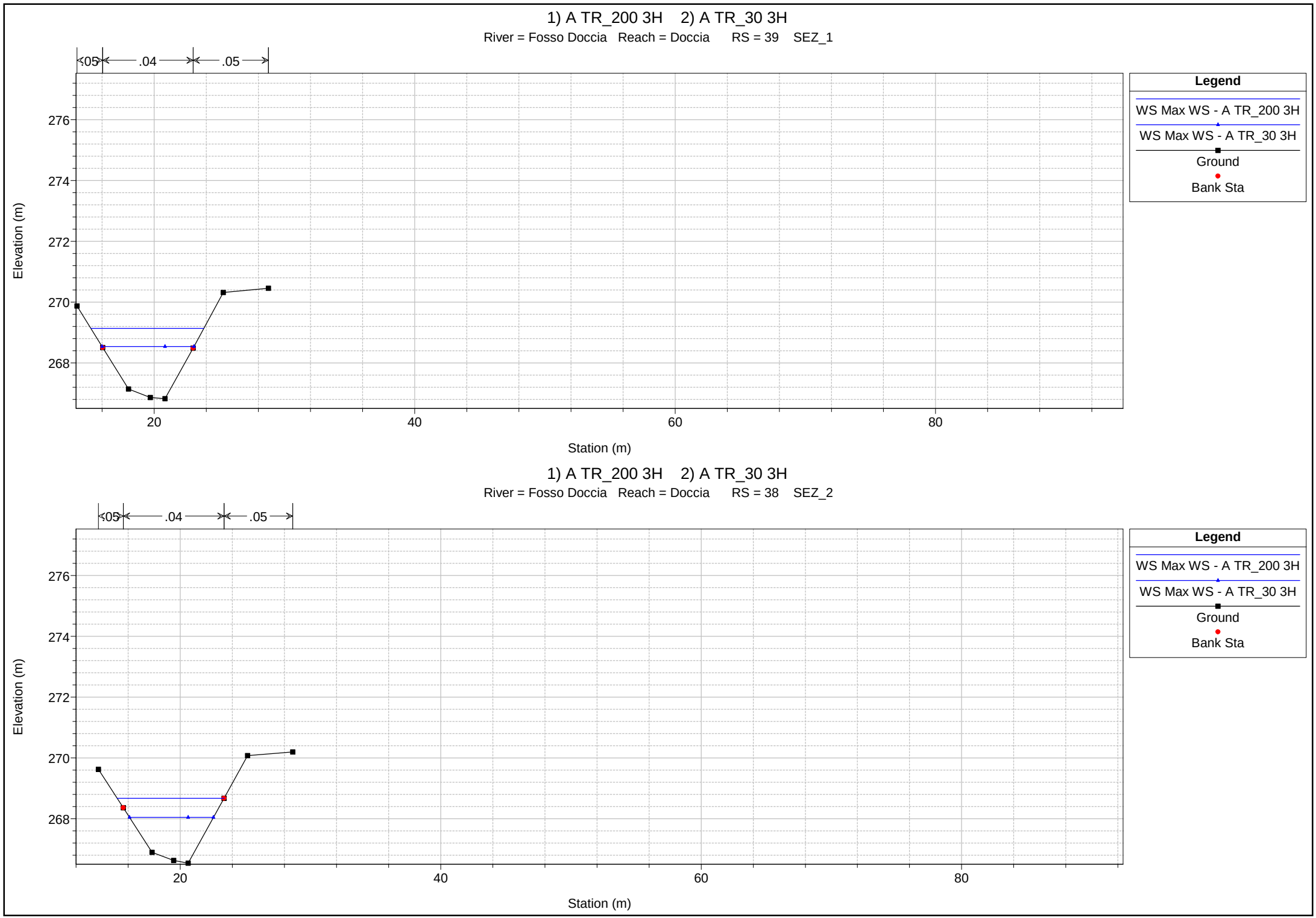
2000

3000

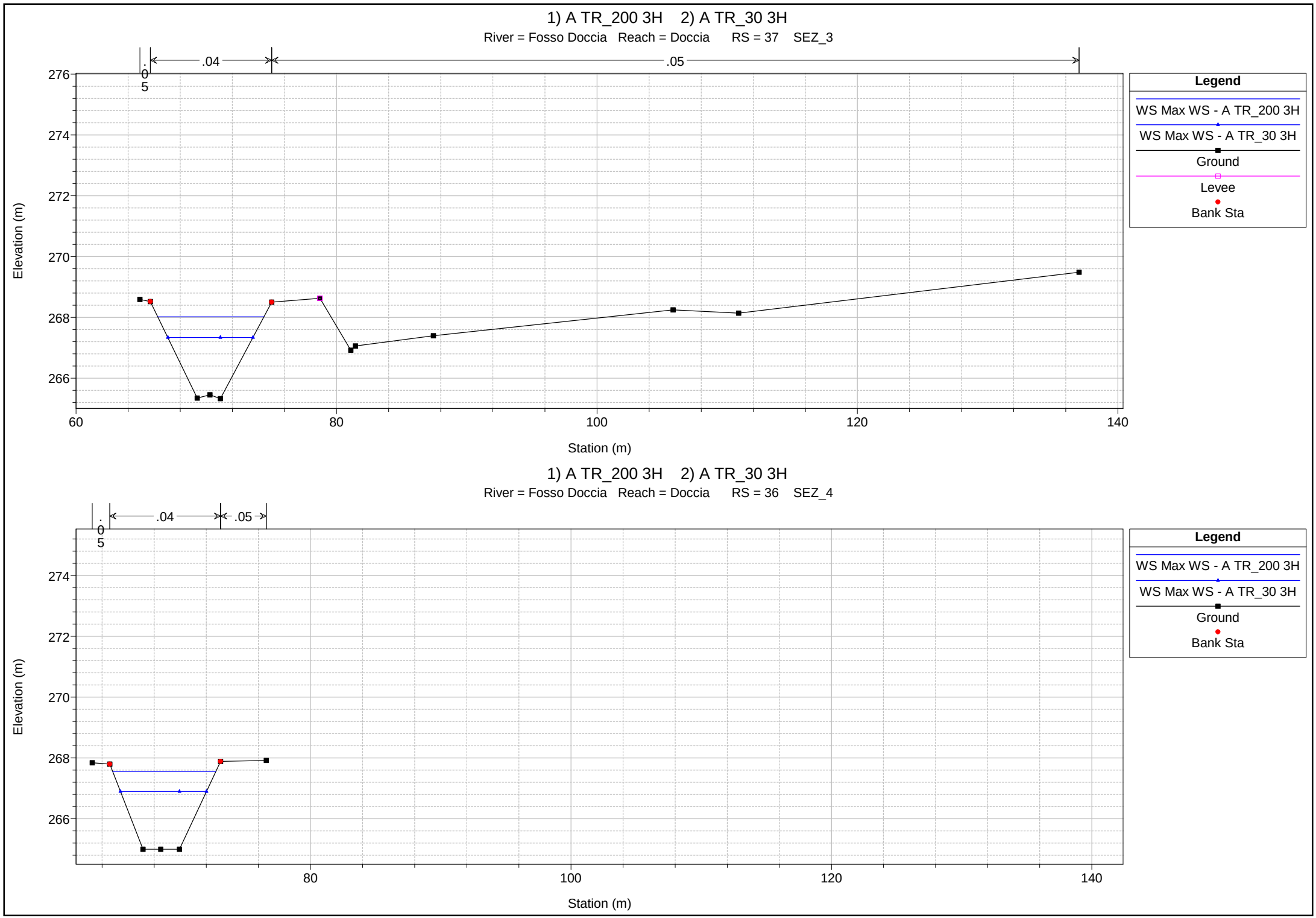
Main Channel Distance (m)

1.33333* 1.66666* 02 2.5* 03 4.33333* 4.66666* 05 5.33333* 5.66666* 06 6.33333* 6.66666* 07 7.33333* 7.66666* 08 8.4* 8.8* 9.16666* 9.5* 9.83333* 10.1666* 10.5* 10.8333* 11.1666* 11.5* 11.8333* 12.1666* 12.5* 12.8333* 13.1666* 13.5* 13.8333* 14.1* 14.3* 14.5* 14.7* 14.9* 15.1111* 15.3333* 15.5555* 15.7777* 16 16.2222* 16.4444* 16.6666* 16.8888* 17.1111* 17.3333* 17.5555* 17.7777* 18 19.6666* 20.1* 20.3* 20.5* 20.7* 20.9 21.3684* 21.7368* 22.1* 22.5* 22.9* 23.2647* 23.6352* 24.0933* 24.42* 25 25.2916* 25.5833* 25.875* 26.2222* 26.6666* 27.0833* 27.4166* 27.75* 28.0909* 28.4545* 28.8181* 29.1666* 29.5* 29.8333* 31.3333* 33.1* 33.5* 33.9* 34.25* 34.5833* 34.9166* 35.2727* 35.5363* 36 36.2666* 36.5333* 36.8* 37.0769* 37.3846* 37.6923* 38 38.5* 39

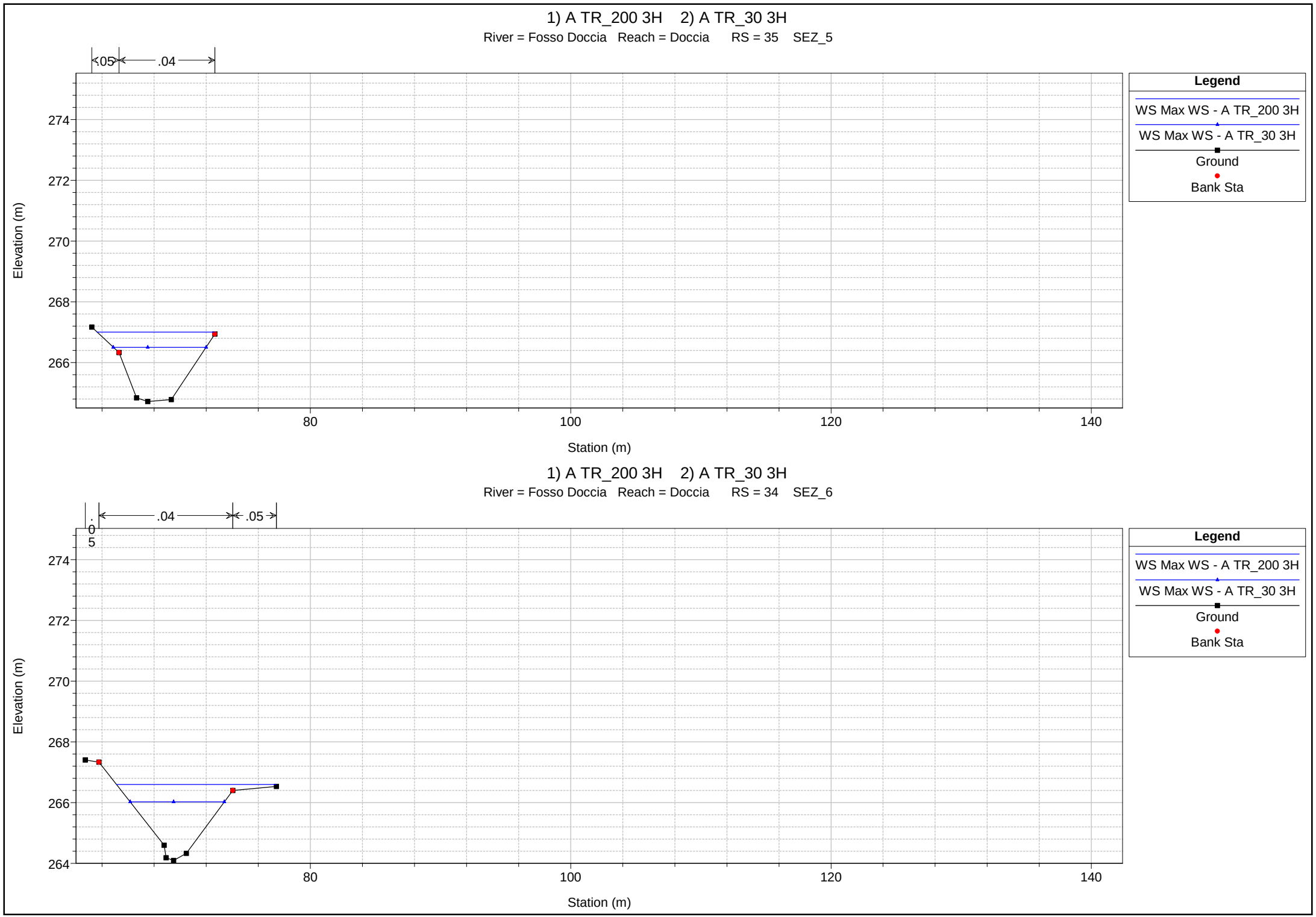
1 cm Horiz. = 108 m 1 cm Vert. = 2 m



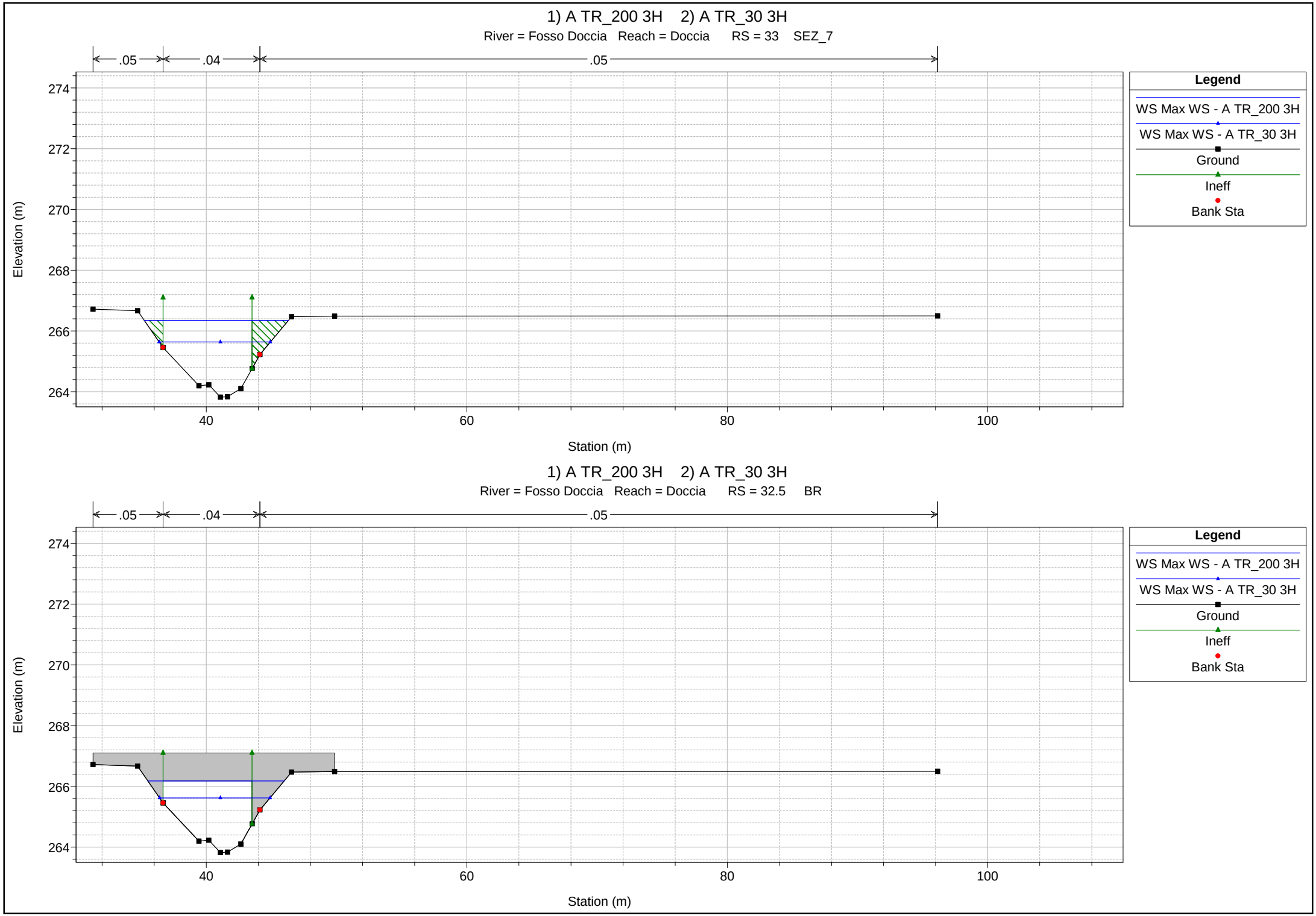
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



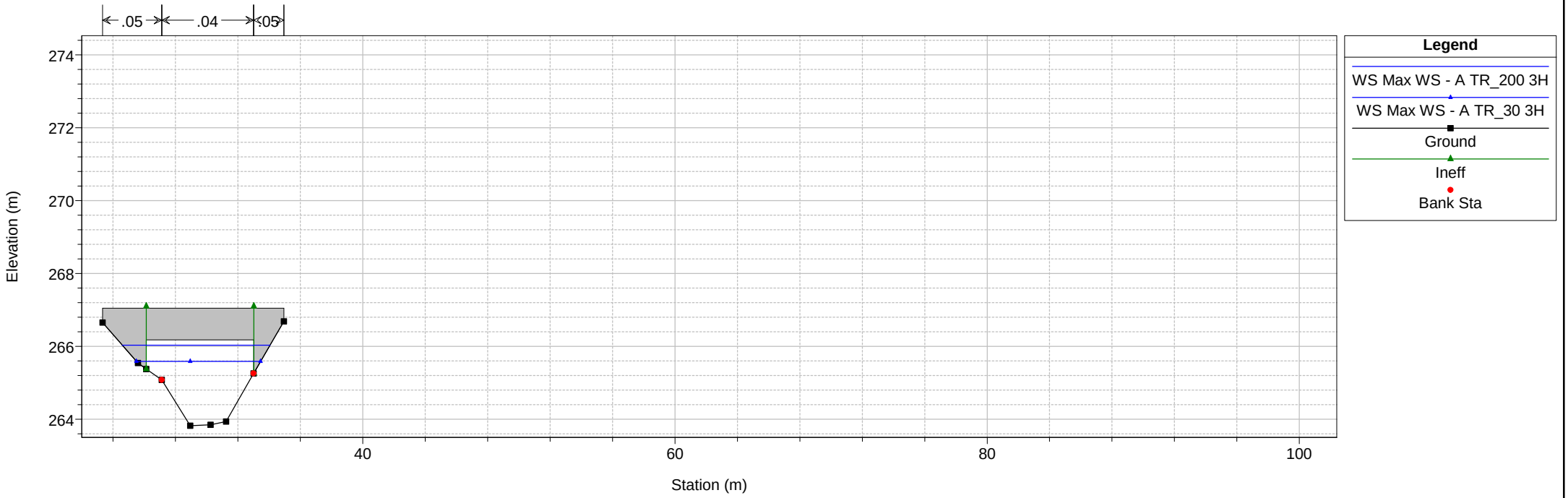
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m

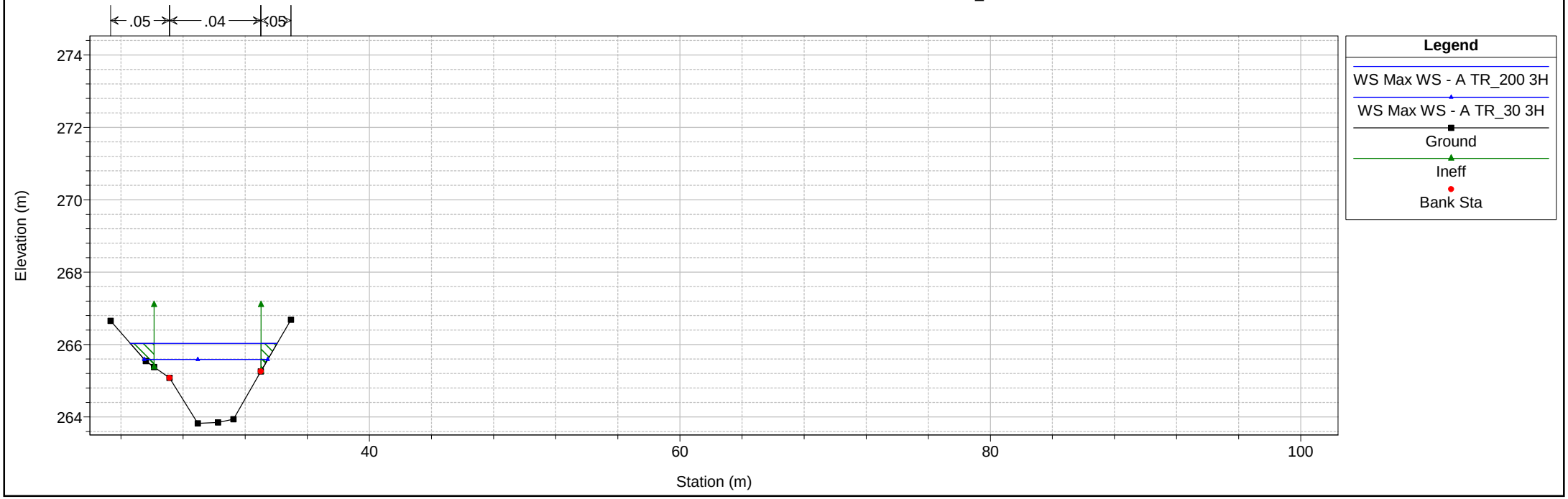
1) A TR_200 3H 2) A TR_30 3H

River = Fosso Doccia Reach = Doccia RS = 32.5 BR



1) A TR_200 3H 2) A TR_30 3H

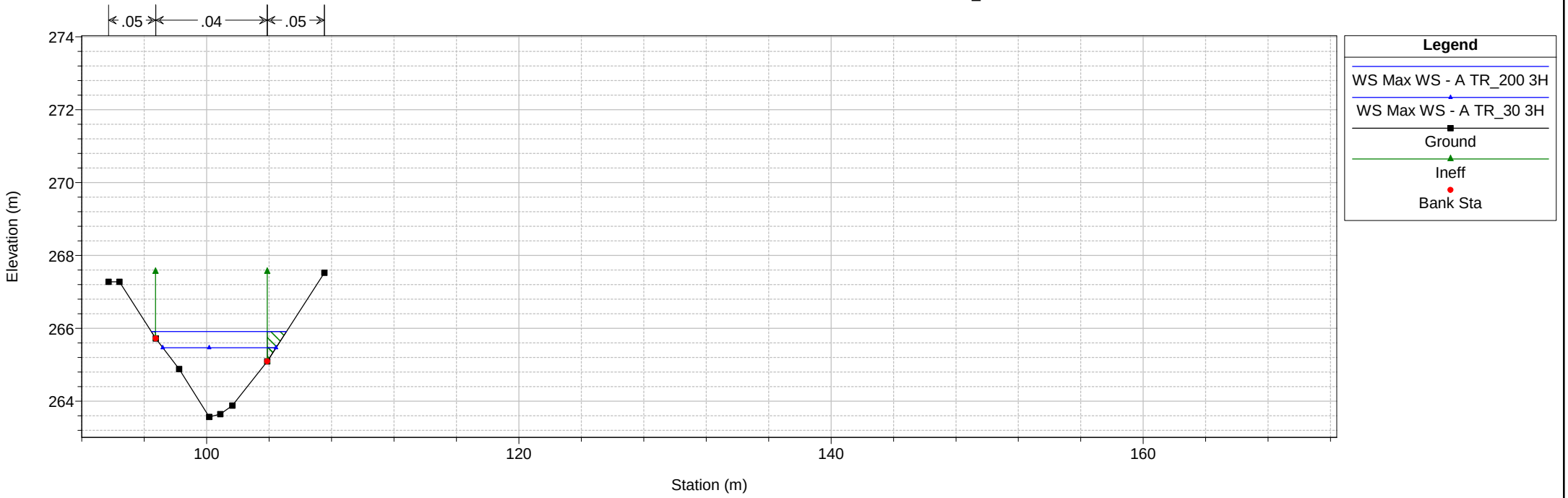
River = Fosso Doccia Reach = Doccia RS = 32 SEZ_8



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m

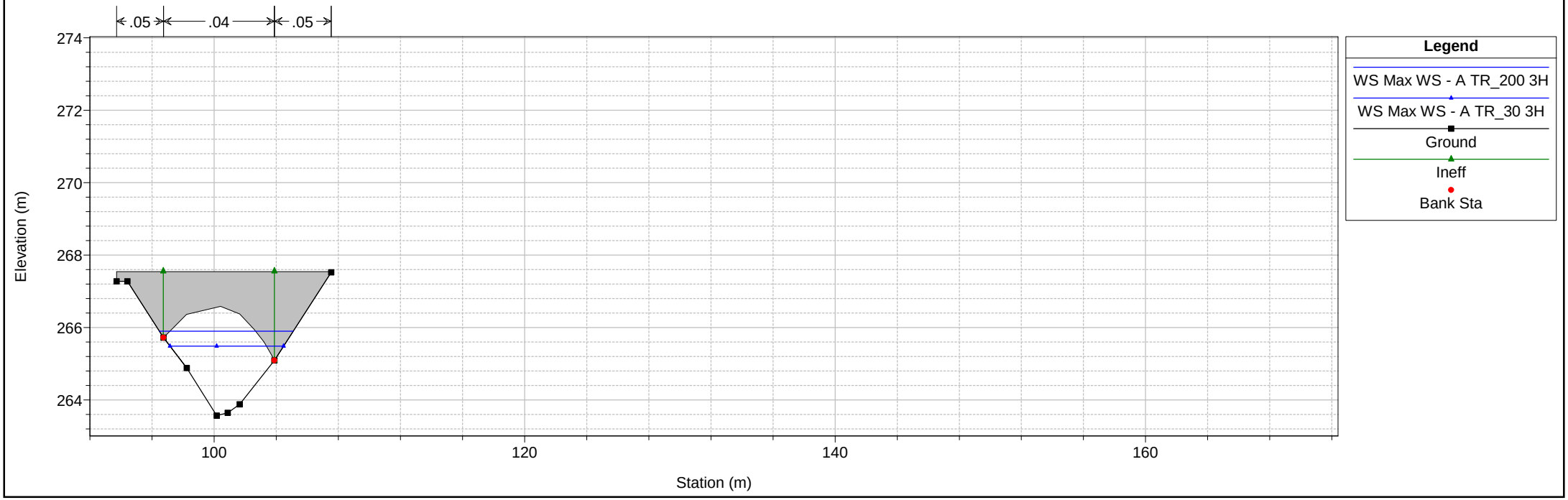
1) A TR_200 3H 2) A TR_30 3H

River = Fosso Doccia Reach = Doccia RS = 31 SEZ_9

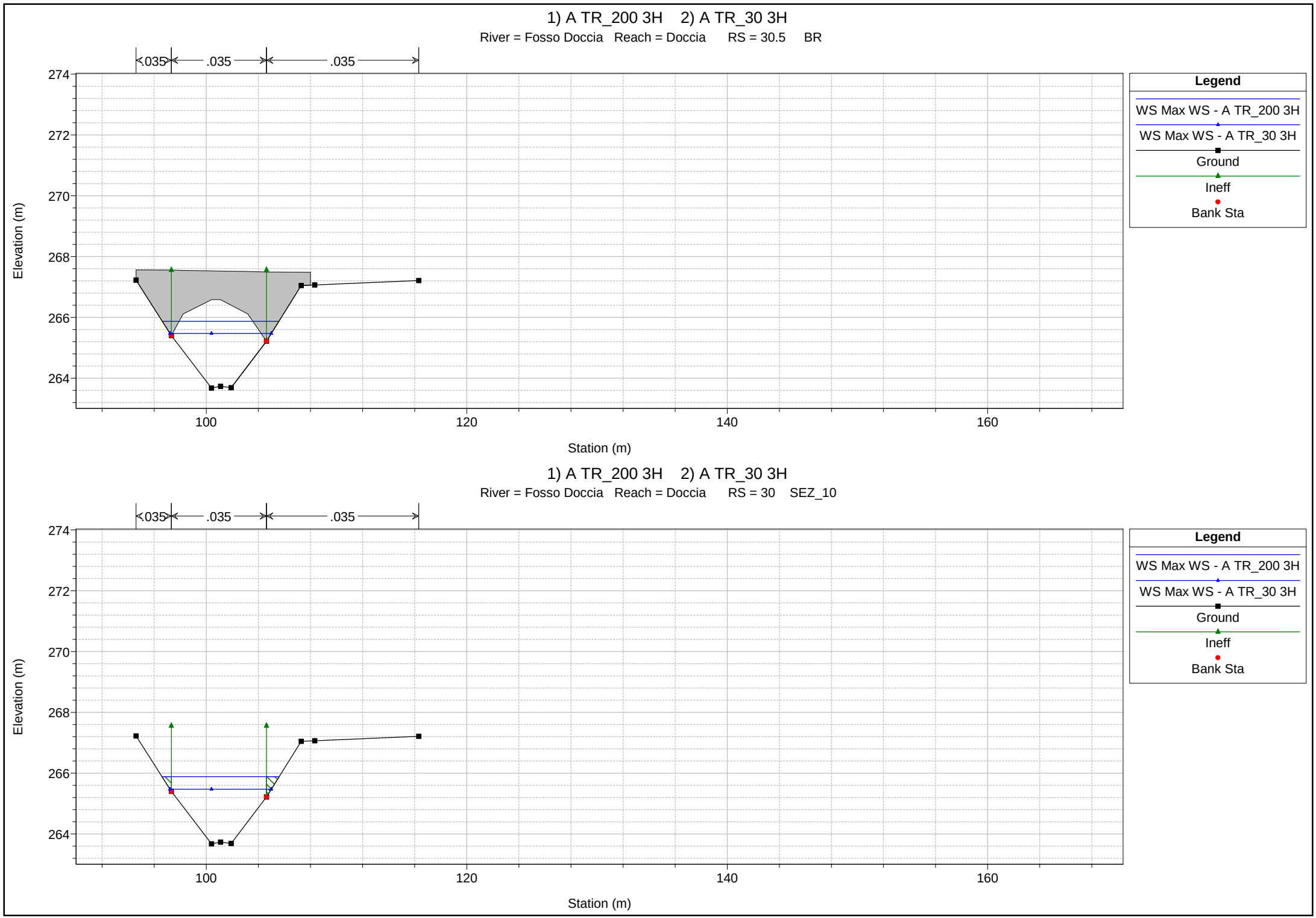


1) A TR_200 3H 2) A TR_30 3H

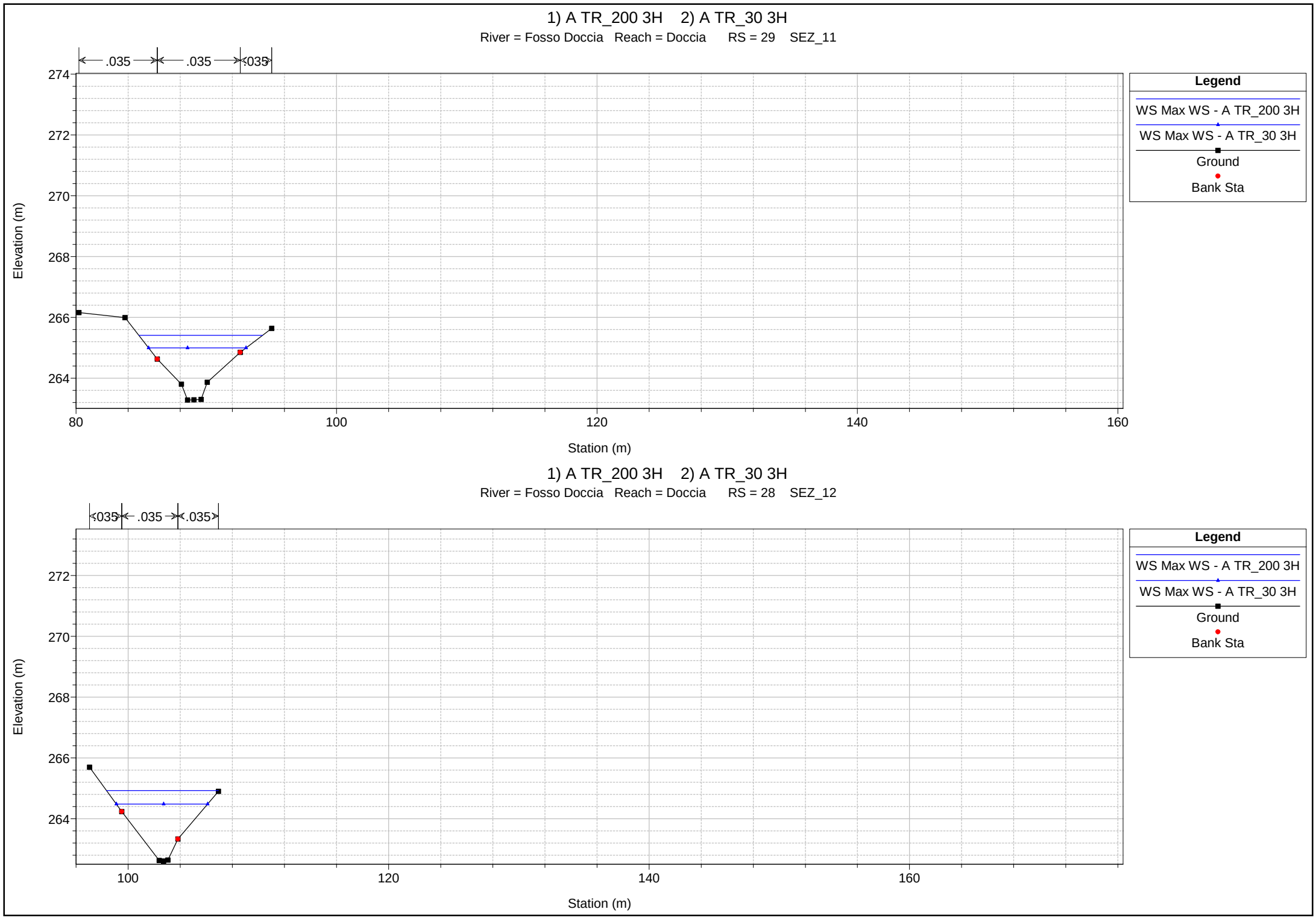
River = Fosso Doccia Reach = Doccia RS = 30.5 BR



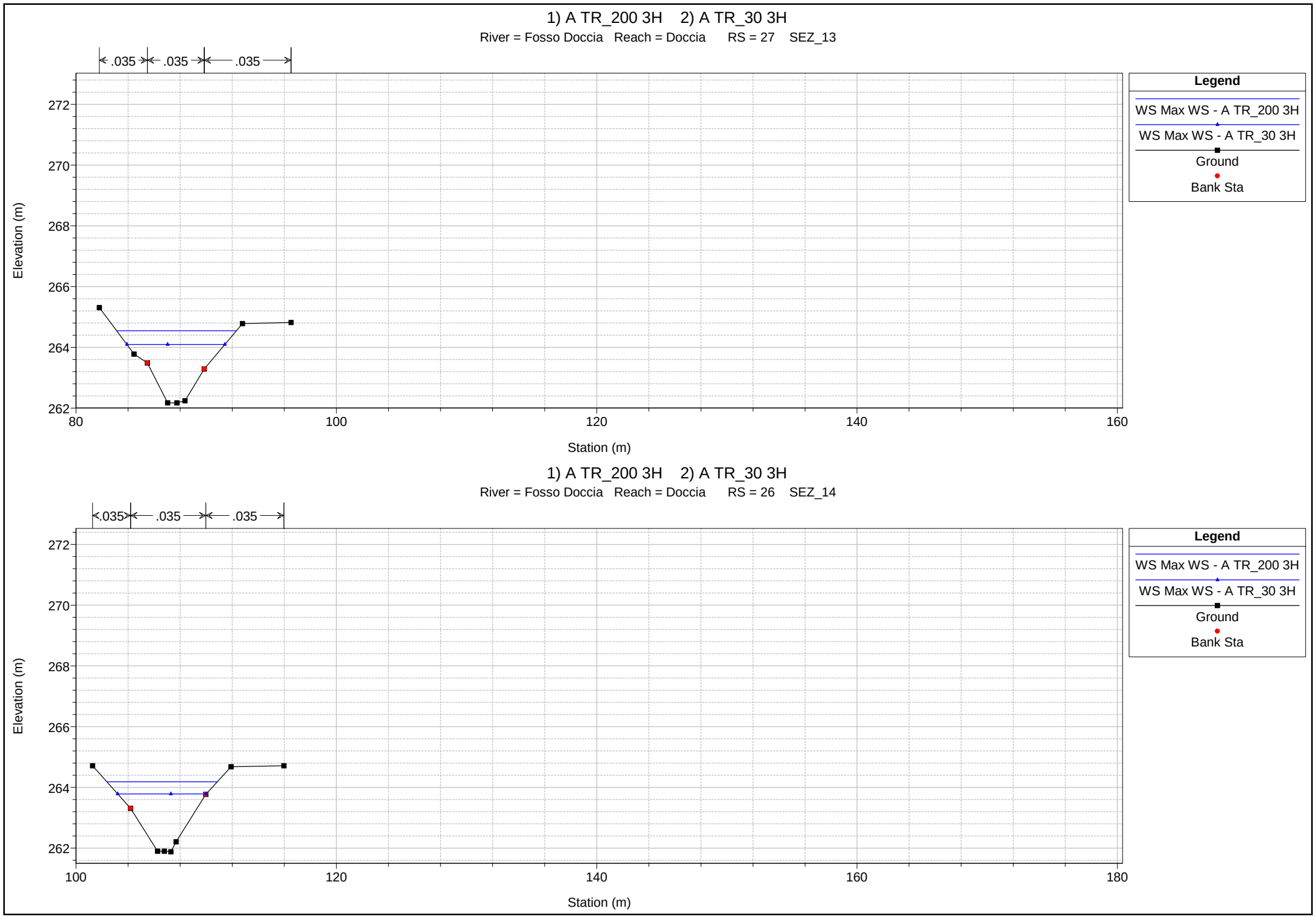
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



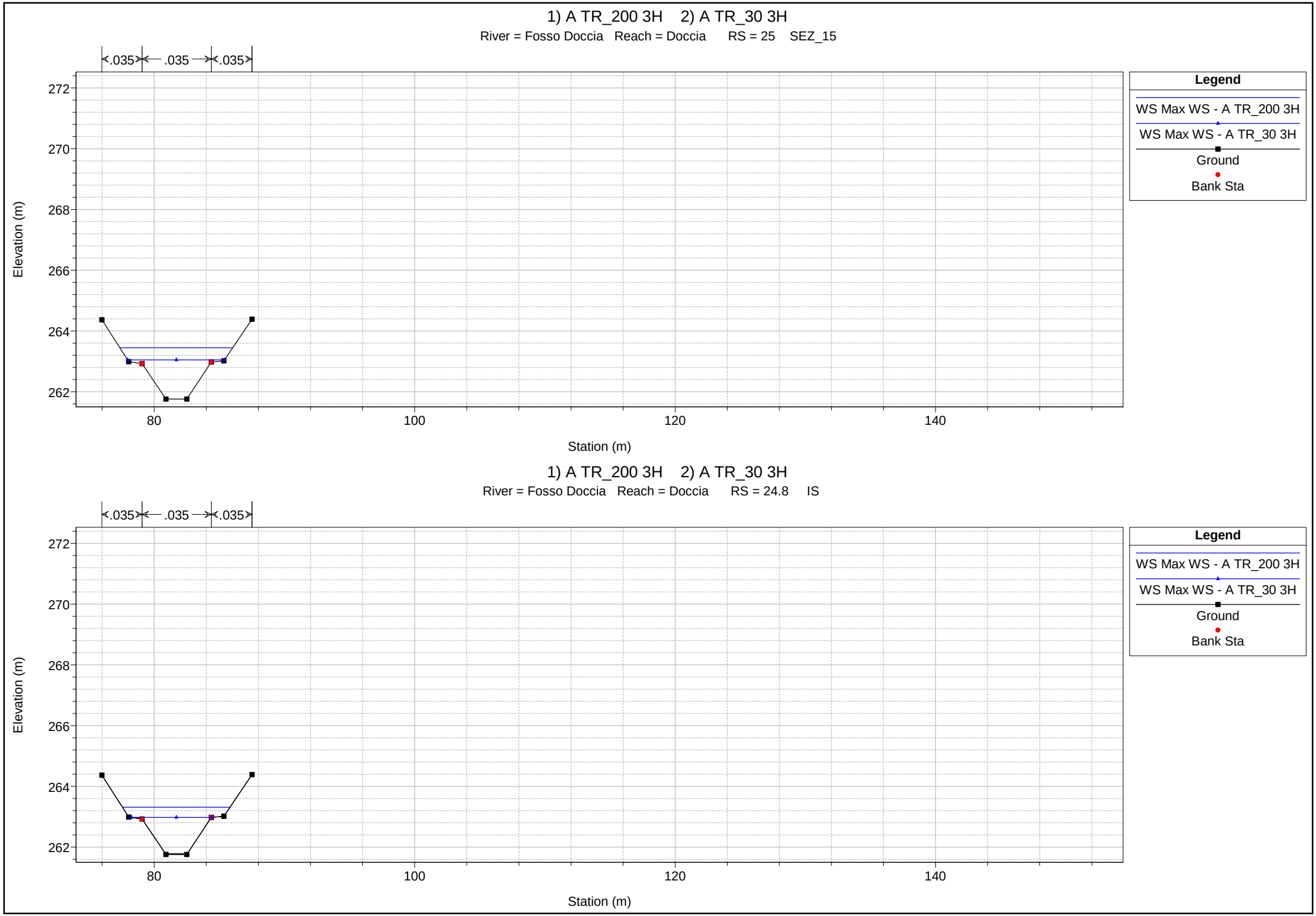
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



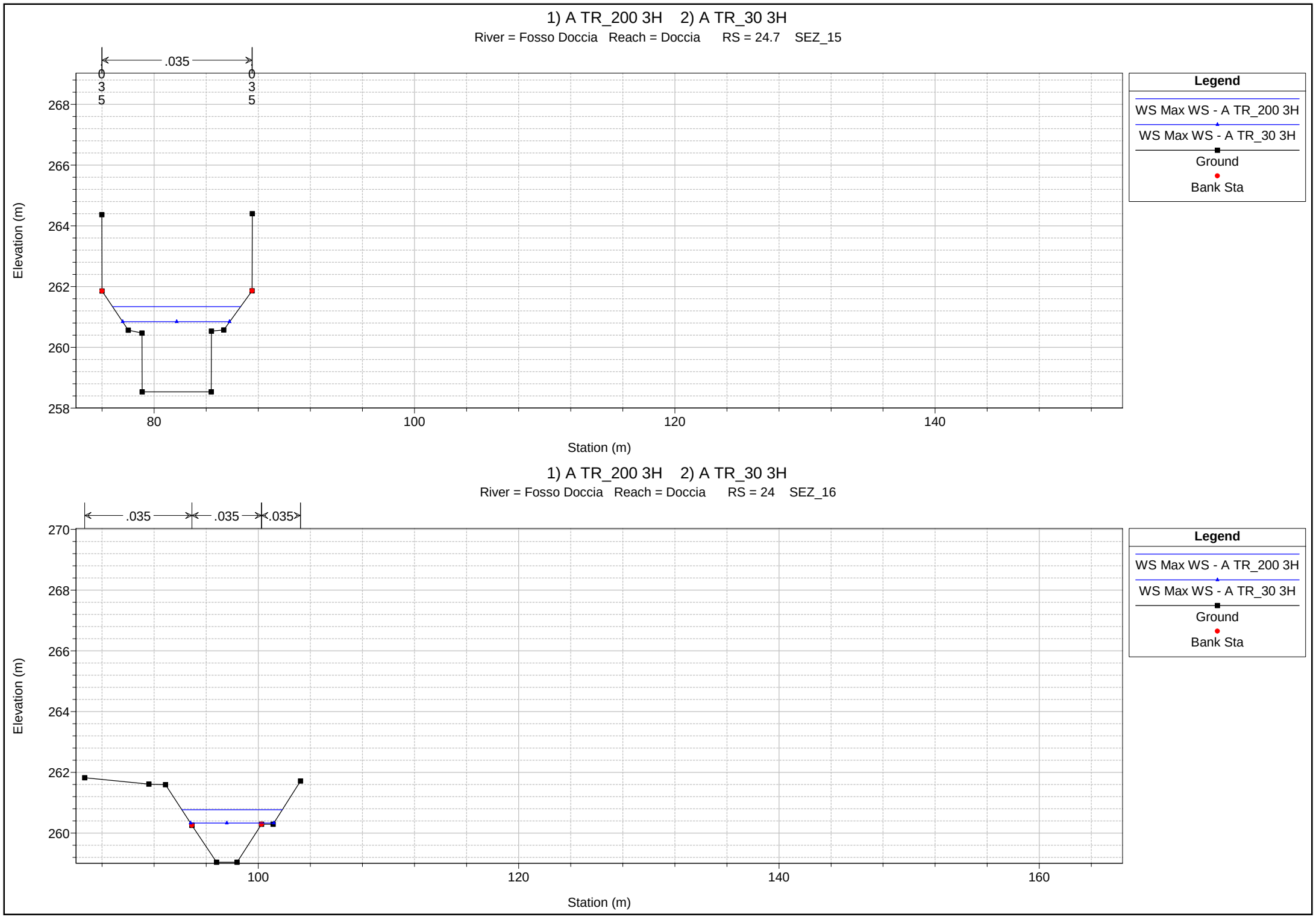
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



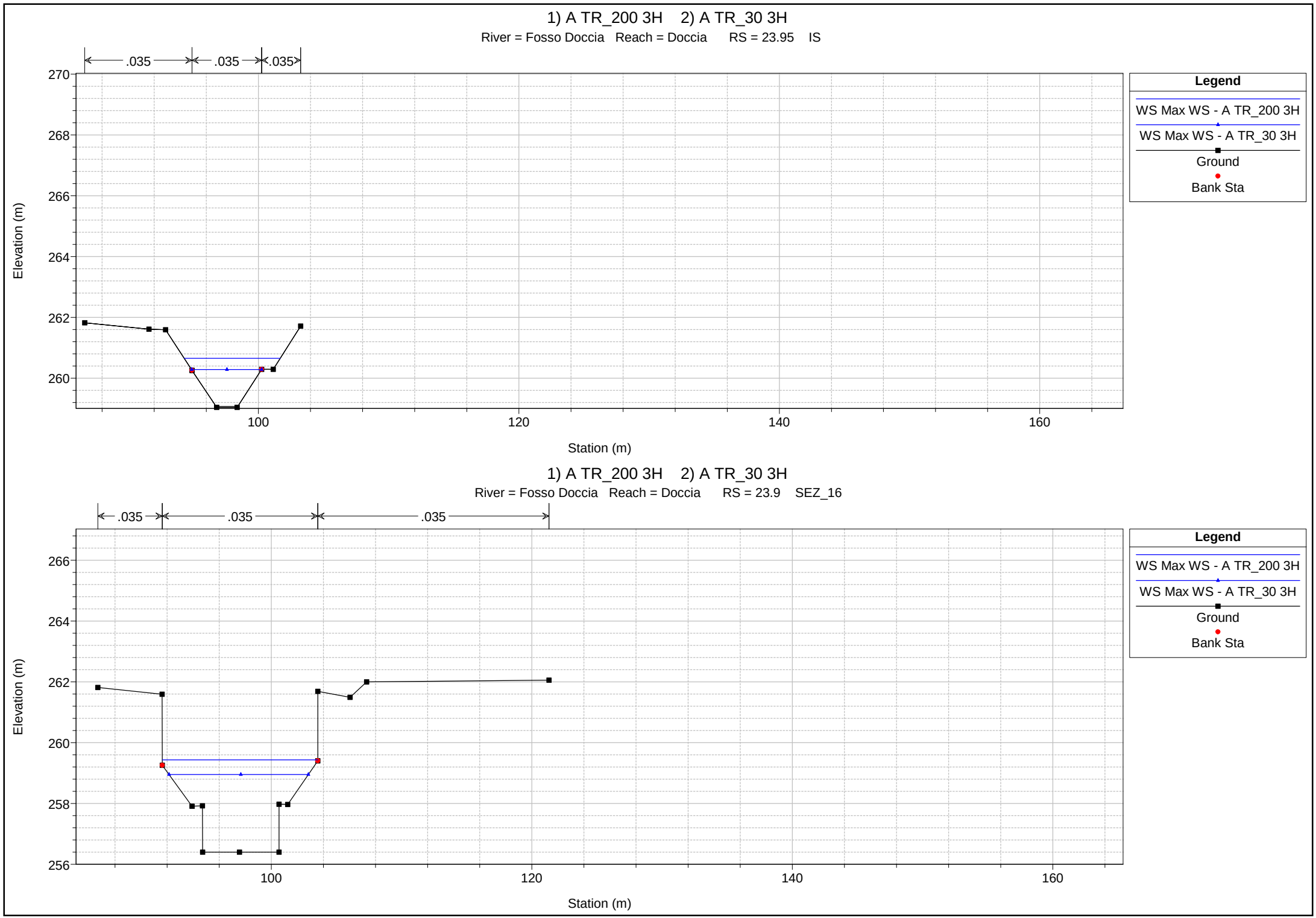
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



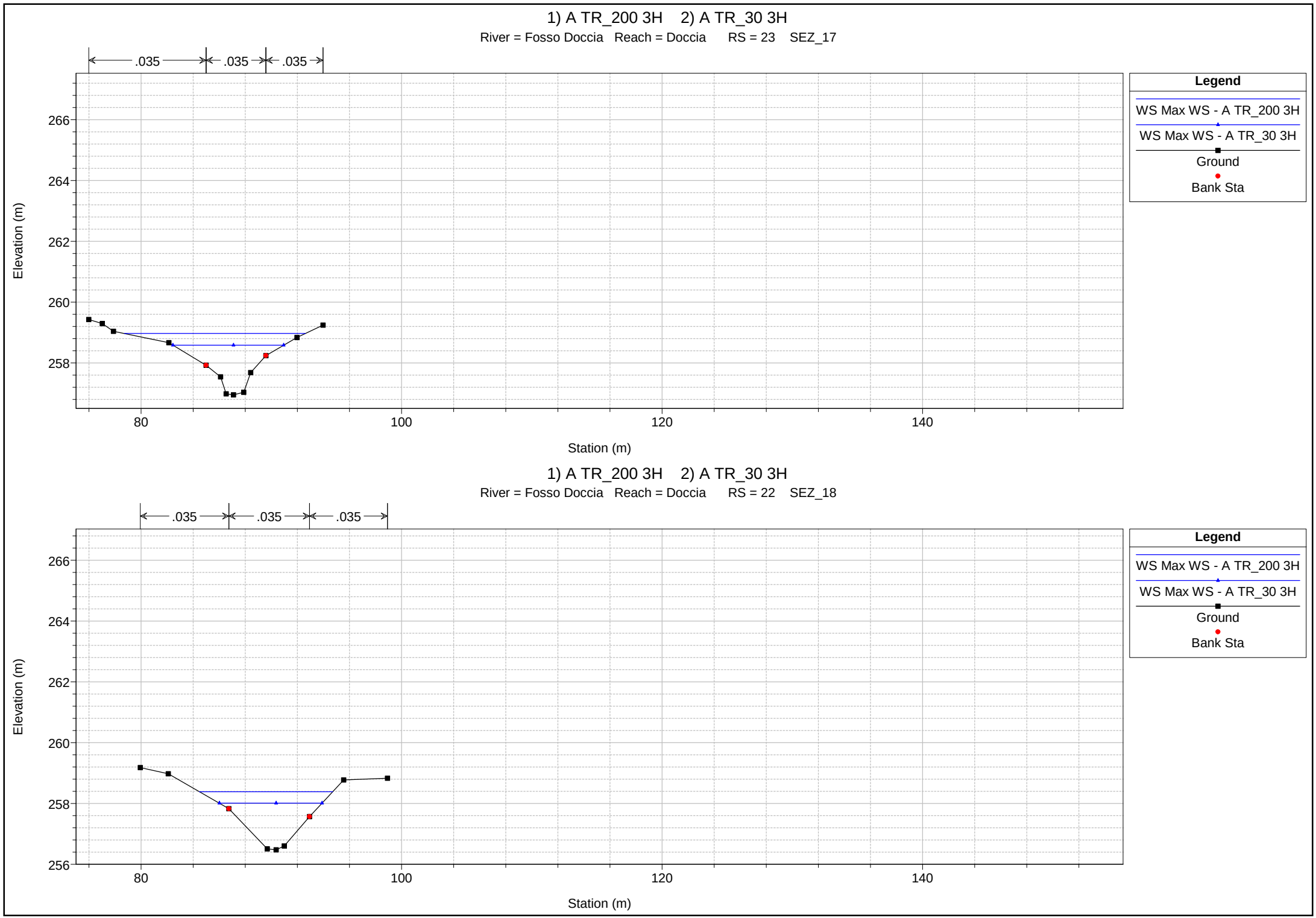
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



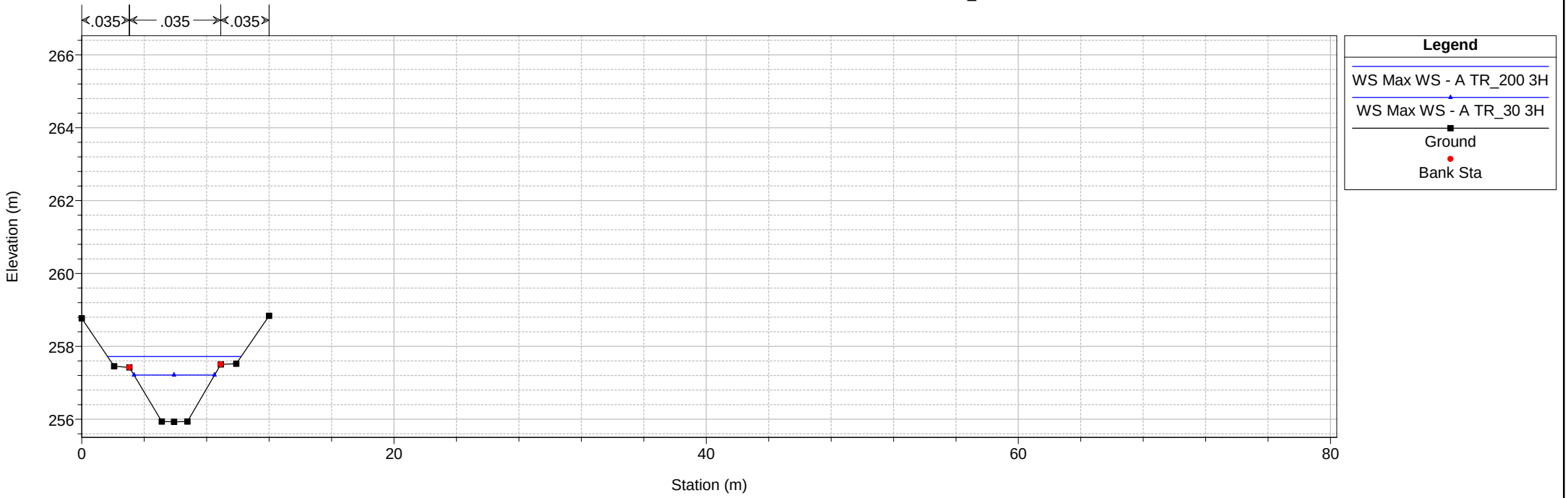
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m

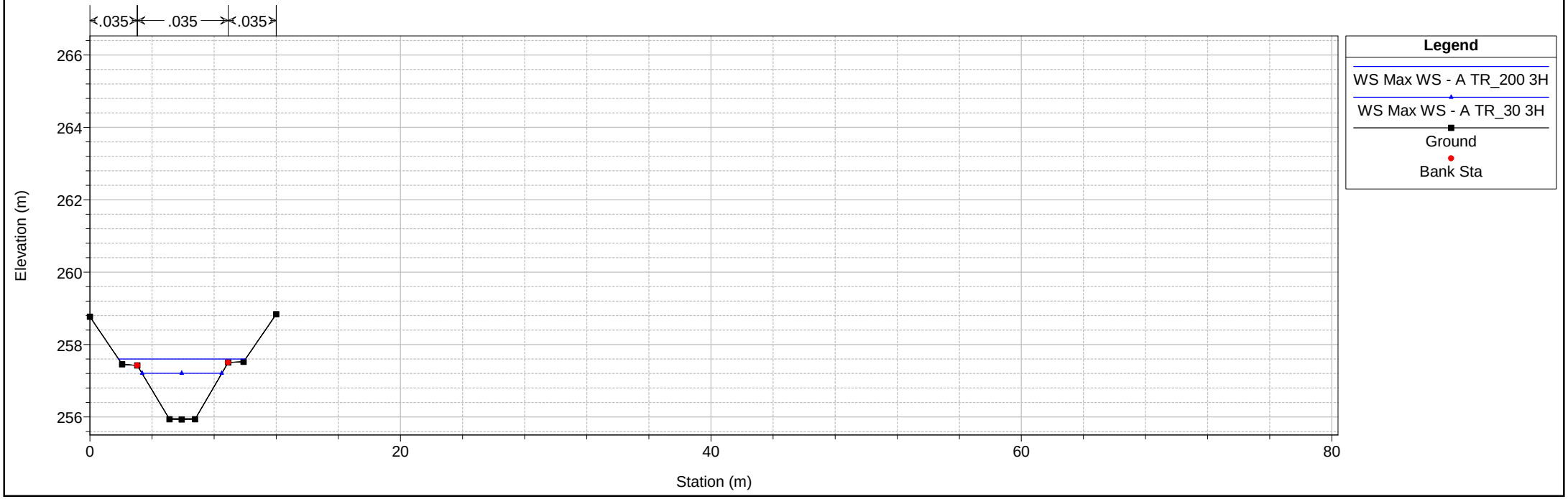
1) A TR_200 3H 2) A TR_30 3H

River = Fosso Doccia Reach = Doccia RS = 21 SEZ_19



1) A TR_200 3H 2) A TR_30 3H

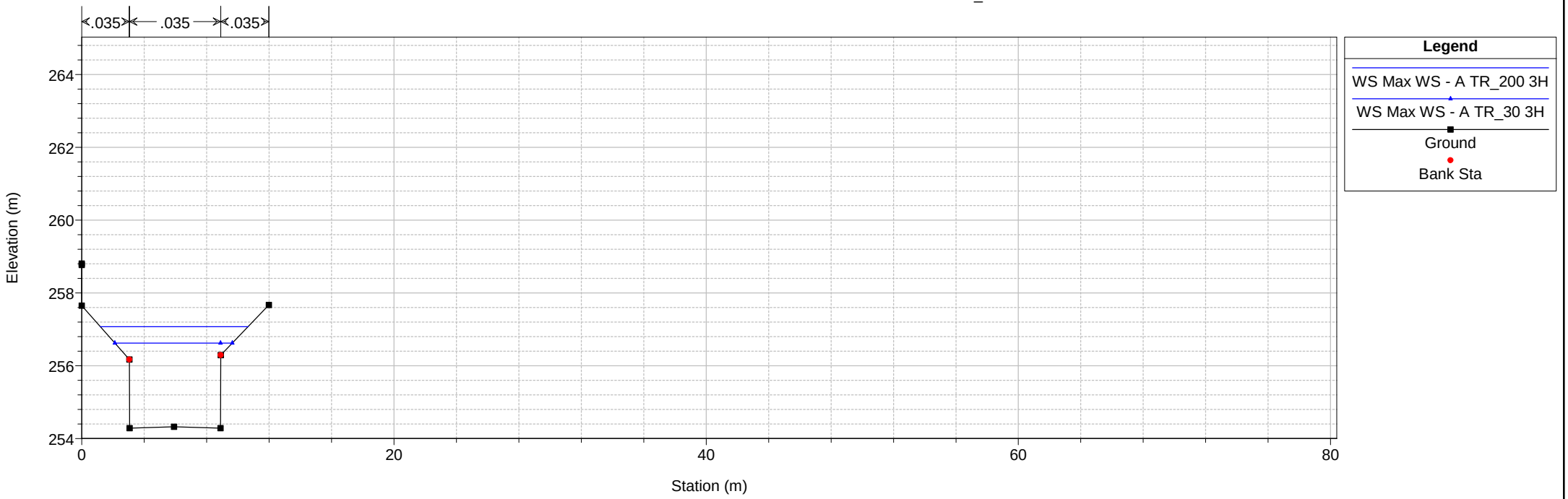
River = Fosso Doccia Reach = Doccia RS = 20.95 IS



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m

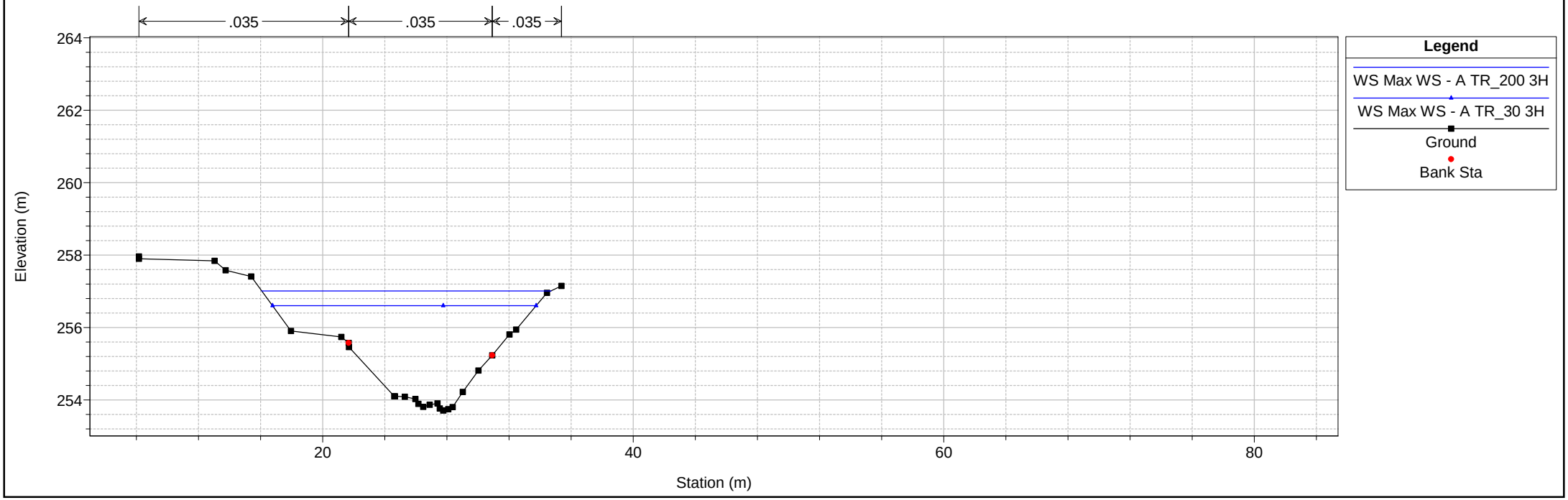
1) A TR_200 3H 2) A TR_30 3H

River = Fosso Doccia Reach = Doccia RS = 20.9 SEZ_19

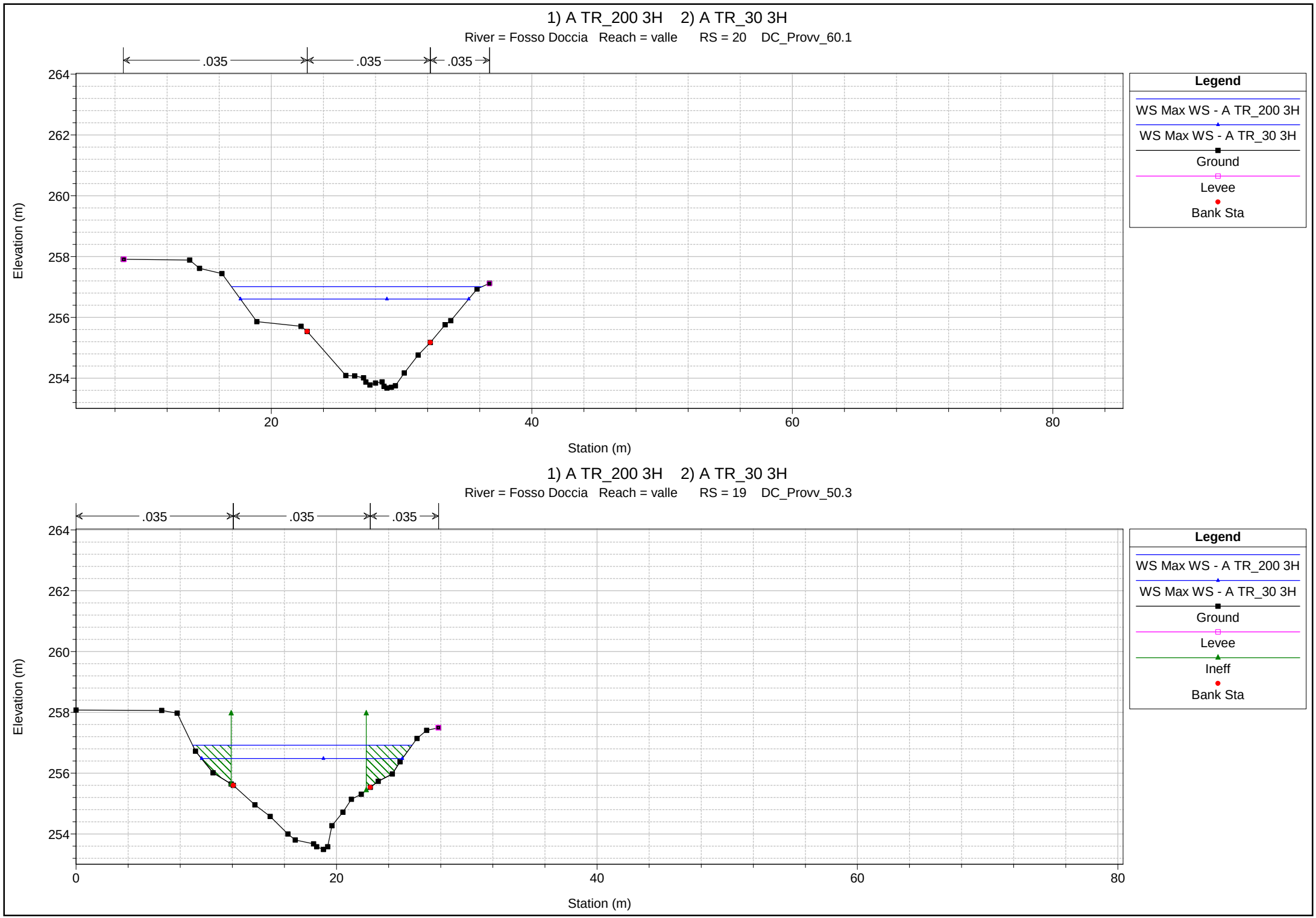


1) A TR_200 3H 2) A TR_30 3H

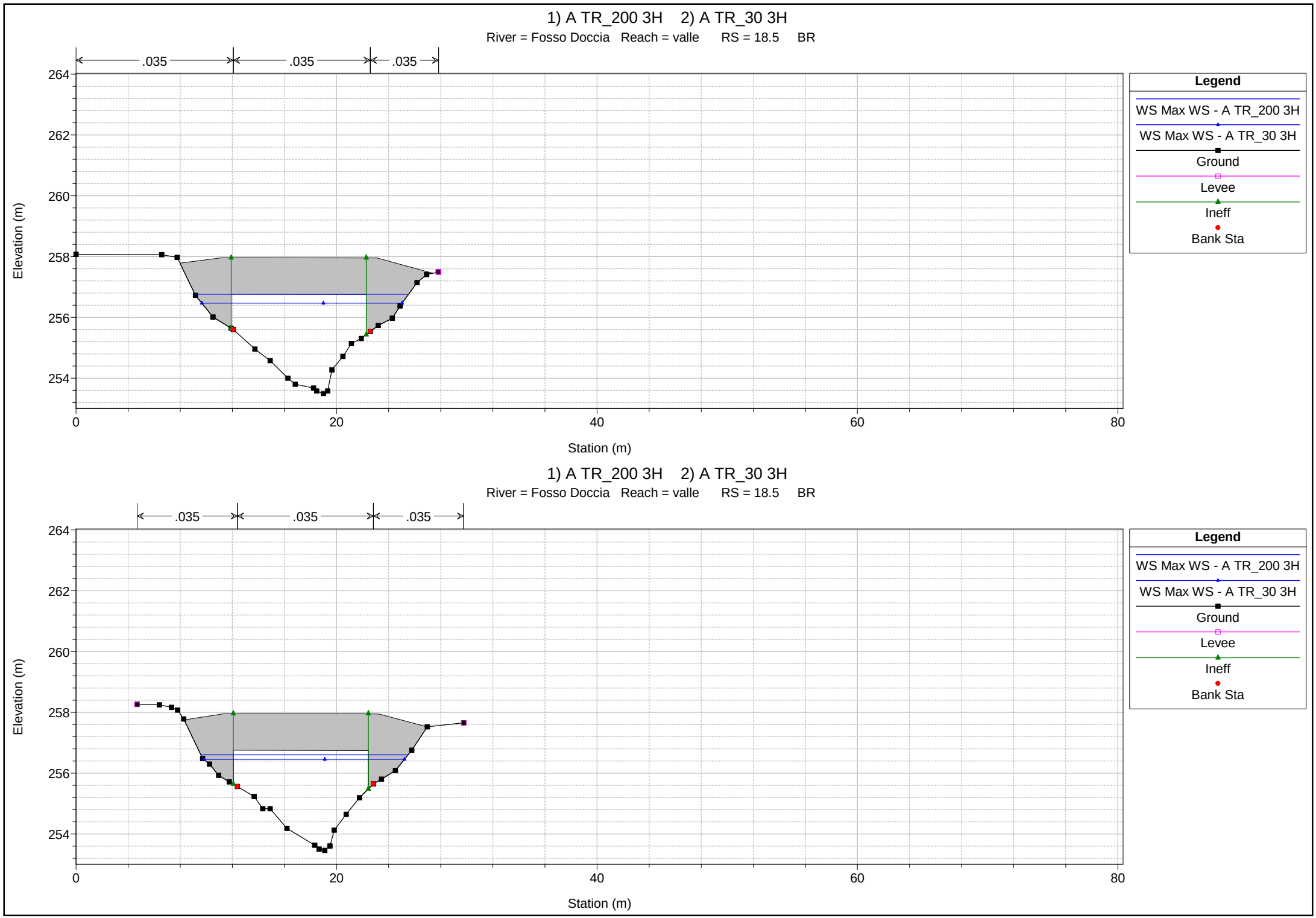
River = Fosso Doccia Reach = Doccia RS = 20.05



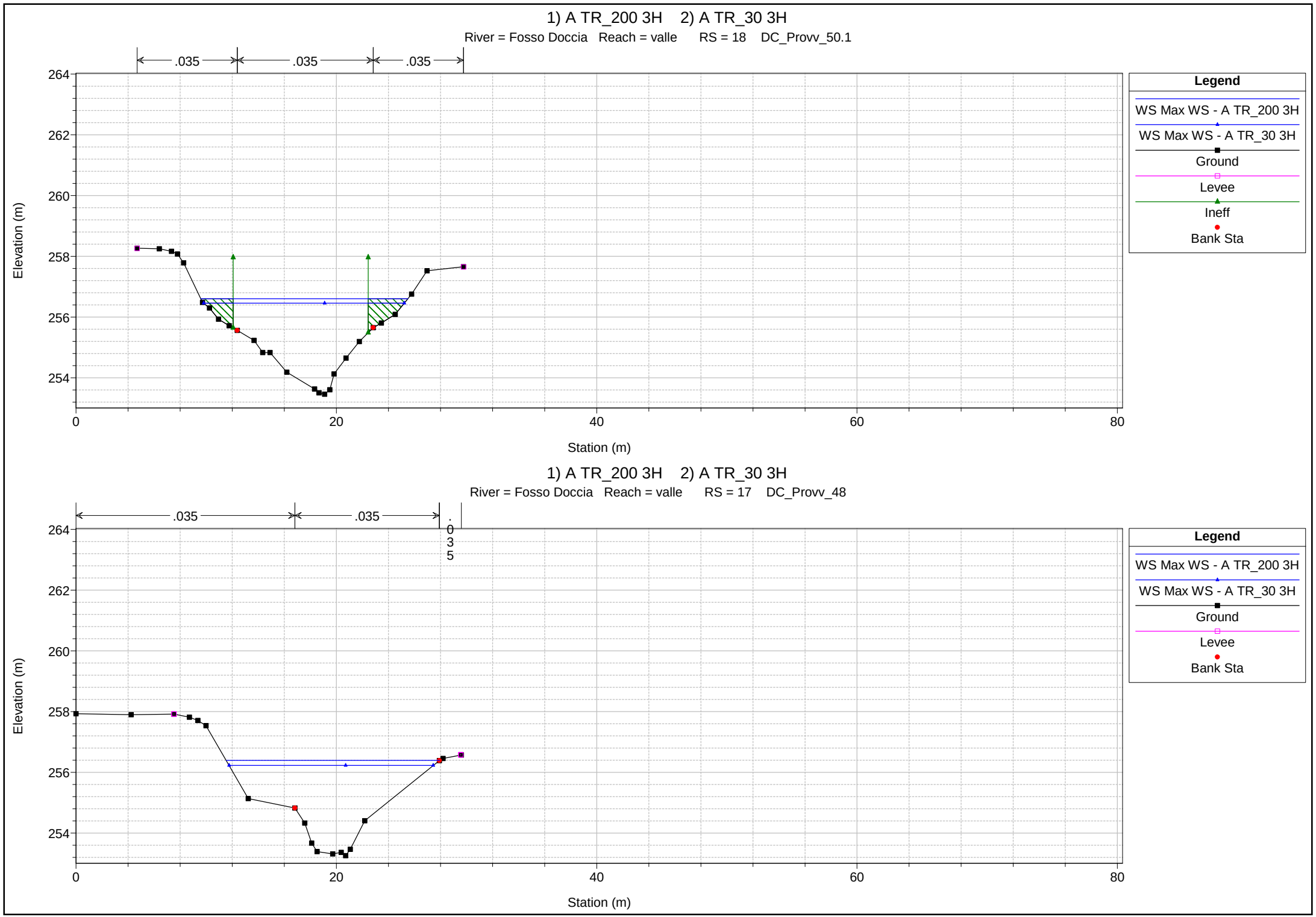
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



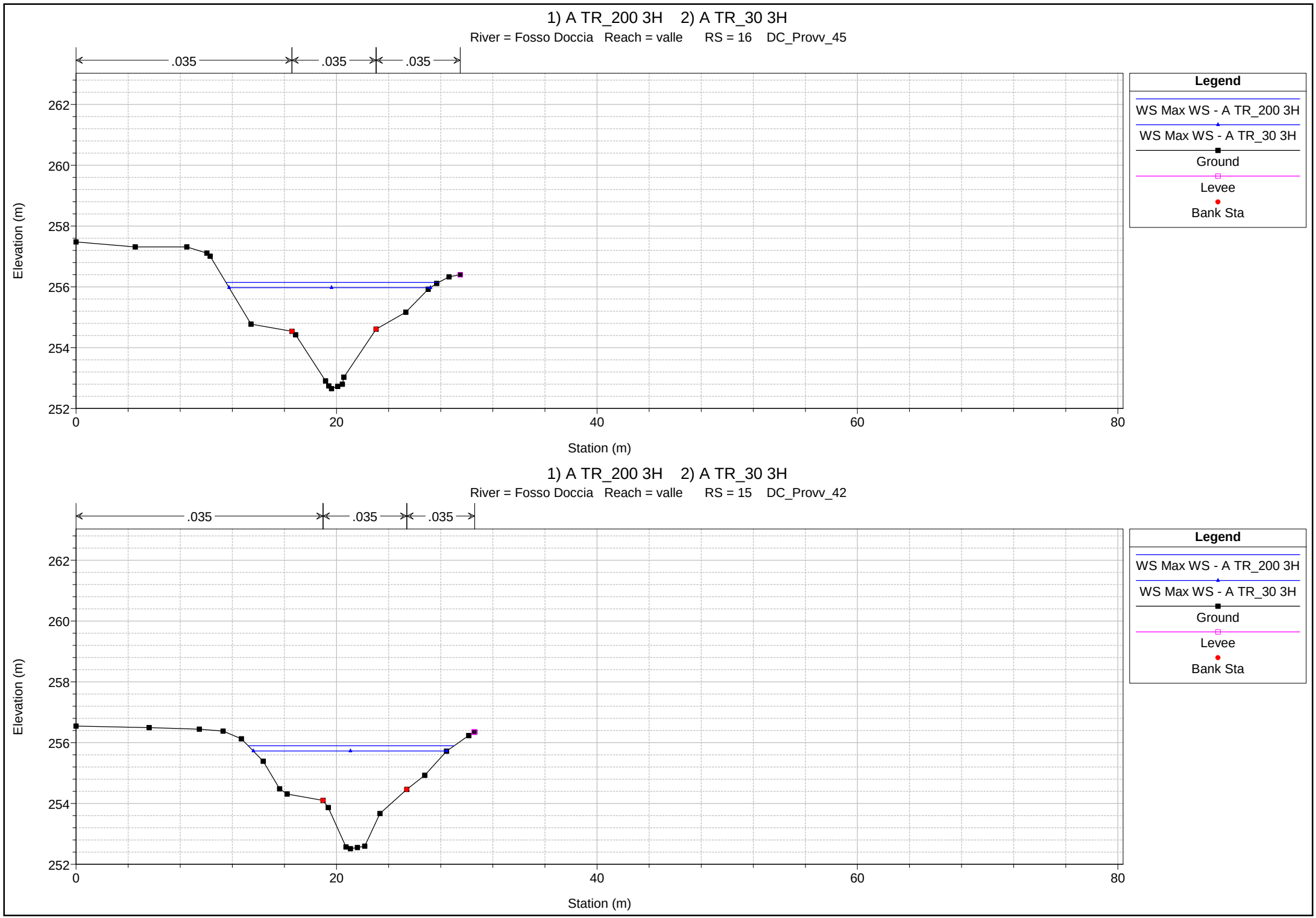
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



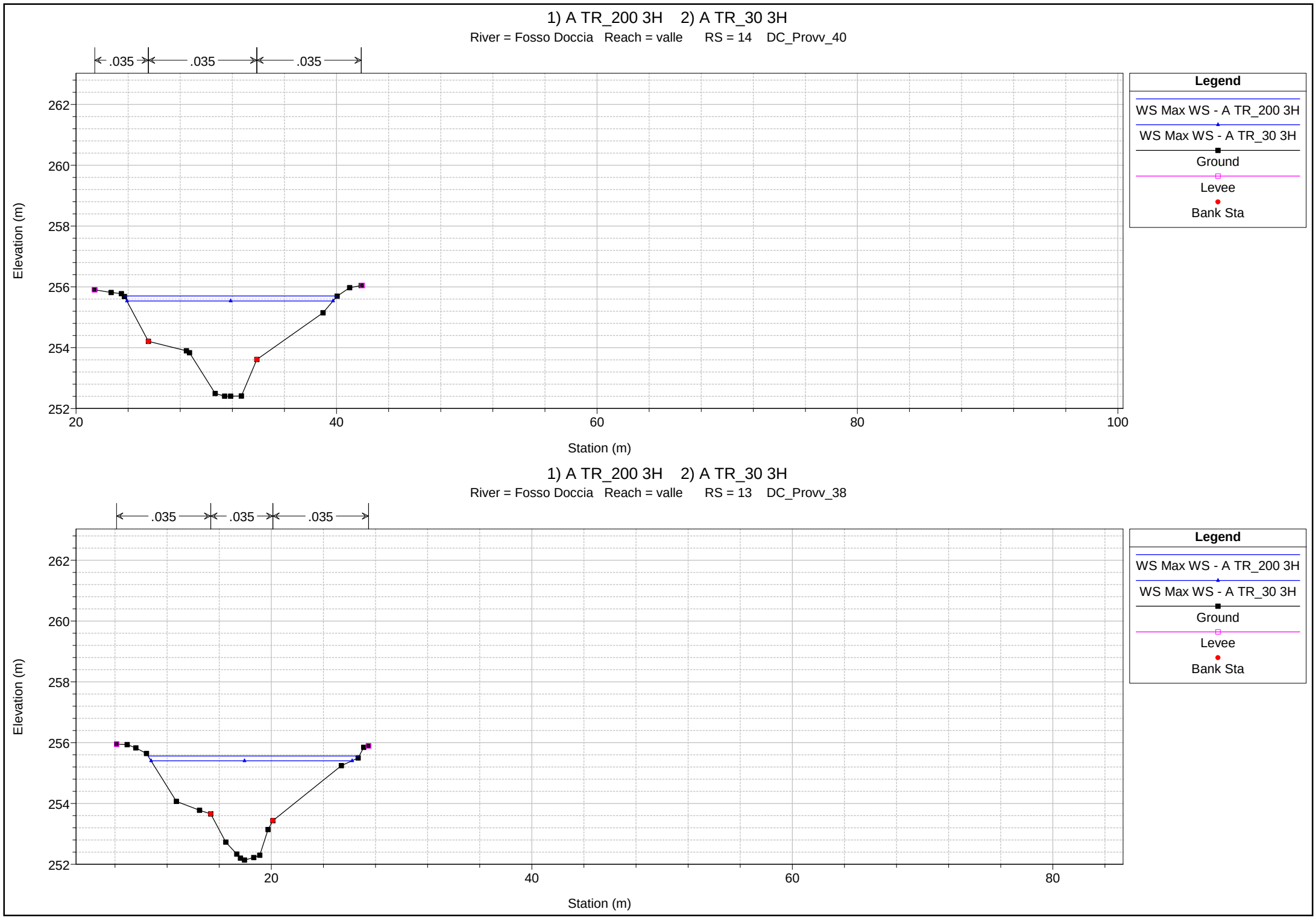
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



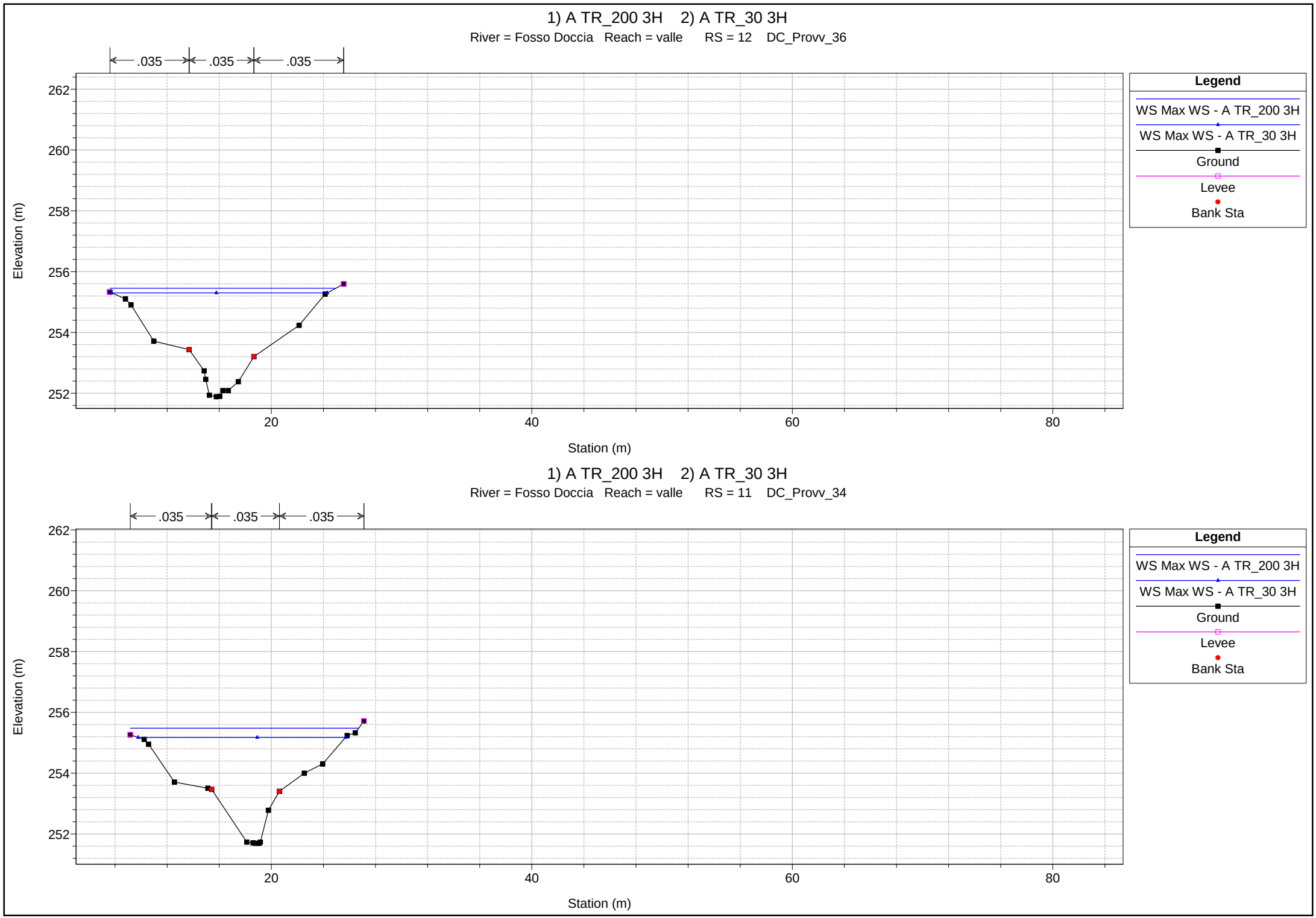
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



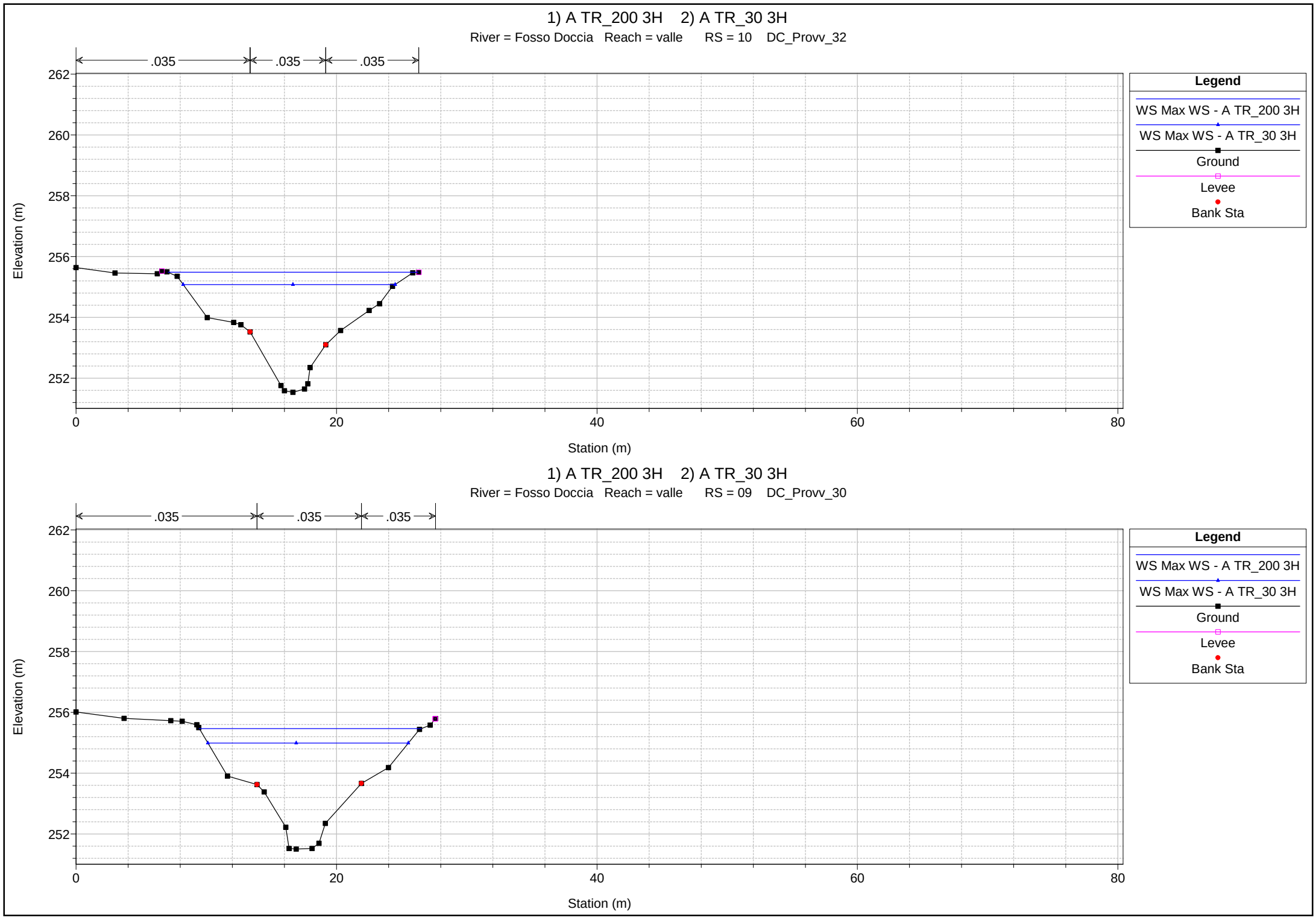
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



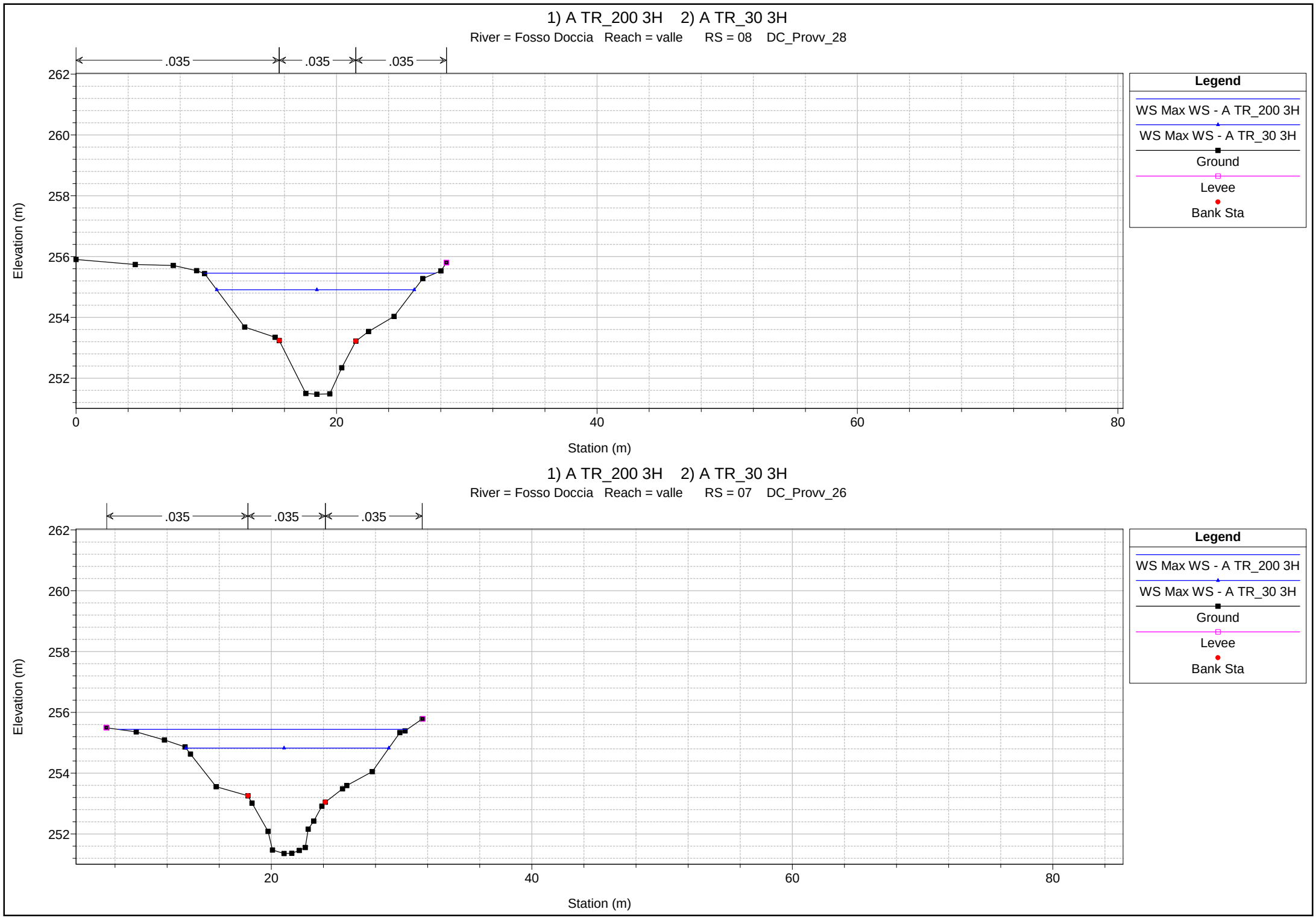
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



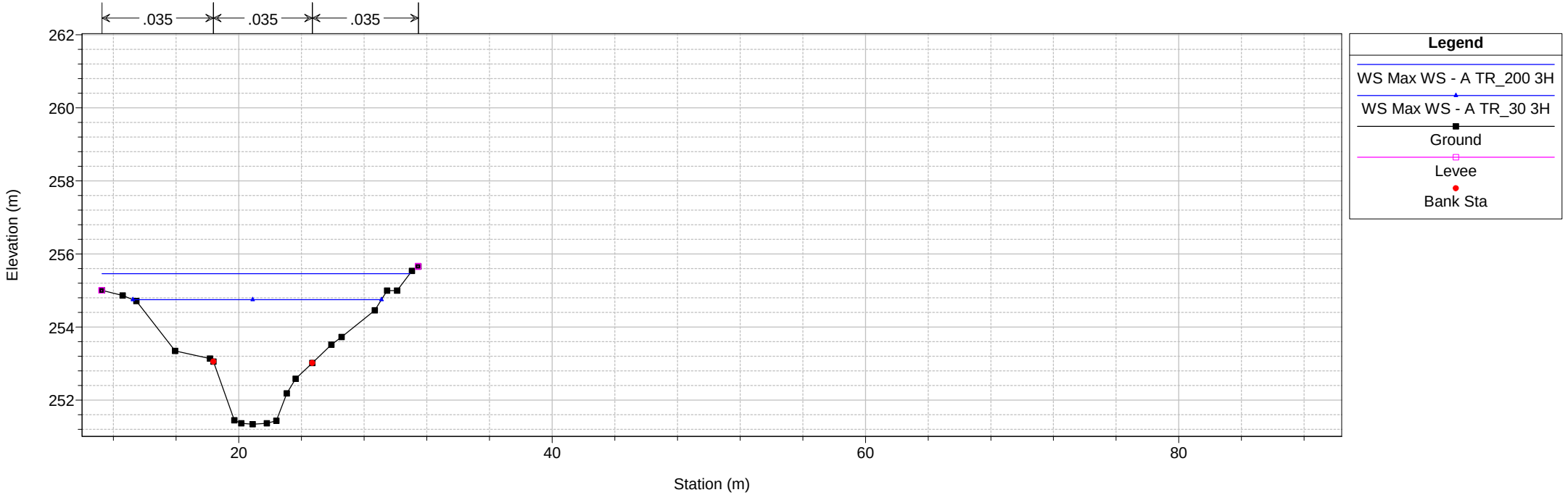
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m

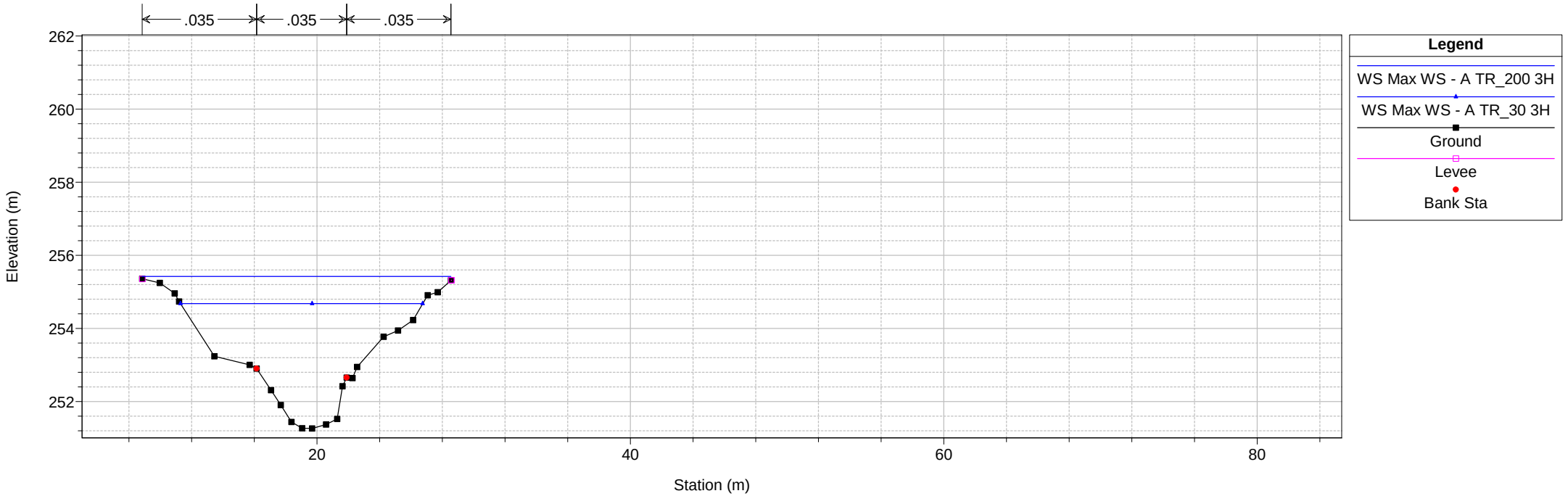
1) A TR_200 3H 2) A TR_30 3H

River = Fosso Doccia Reach = valle RS = 06 DC_Provv_24

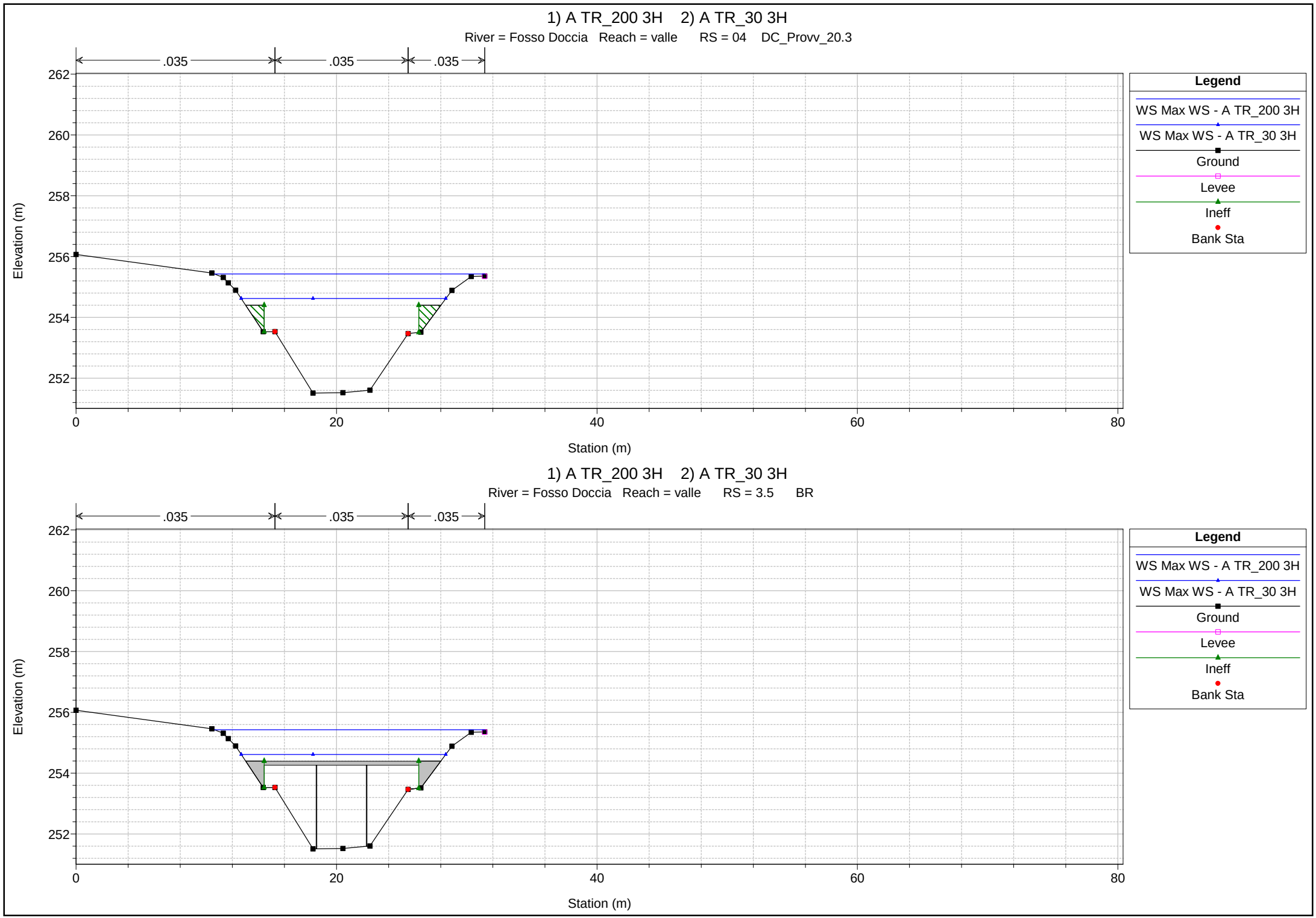


1) A TR_200 3H 2) A TR_30 3H

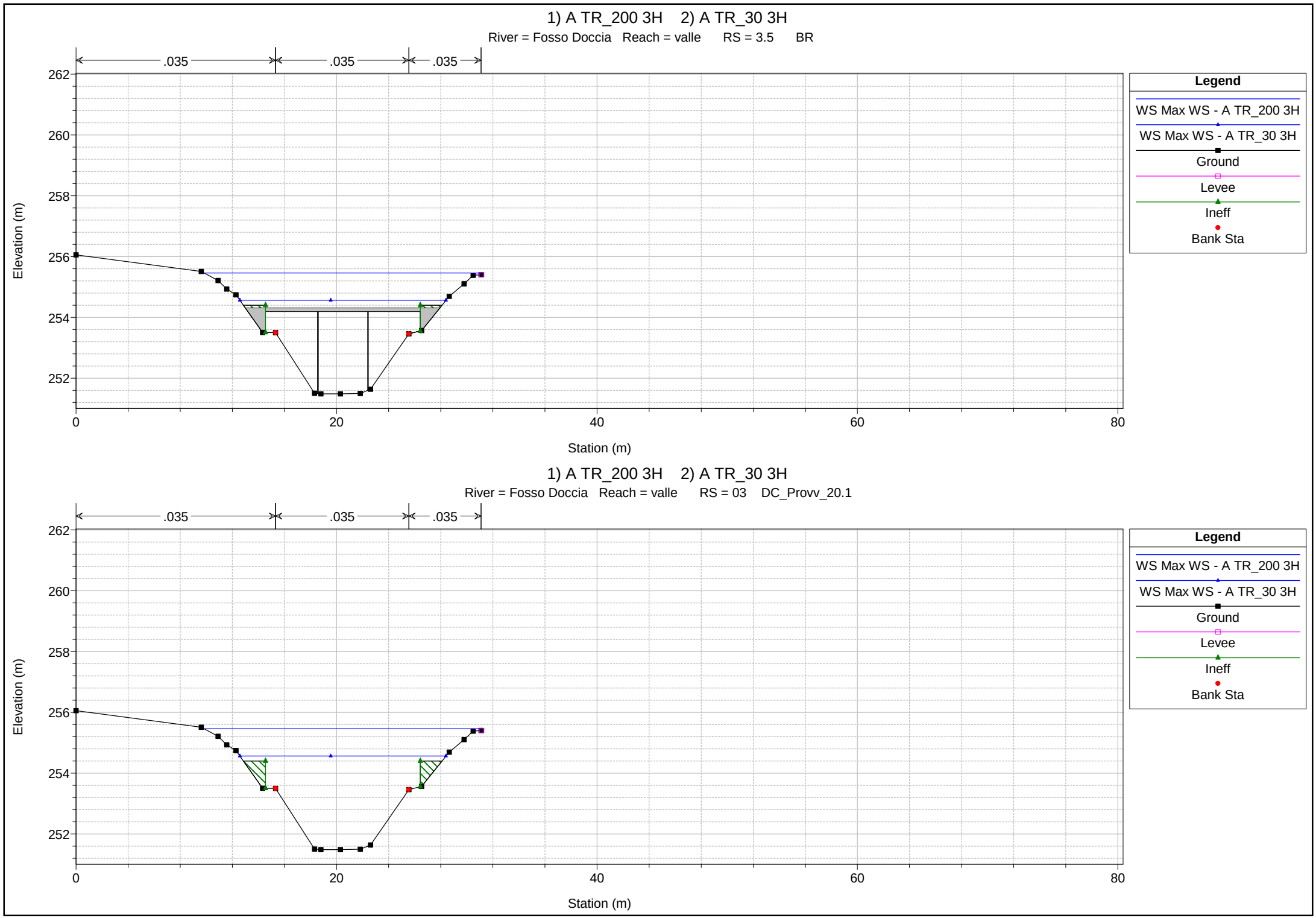
River = Fosso Doccia Reach = valle RS = 05 DC_Provv_22



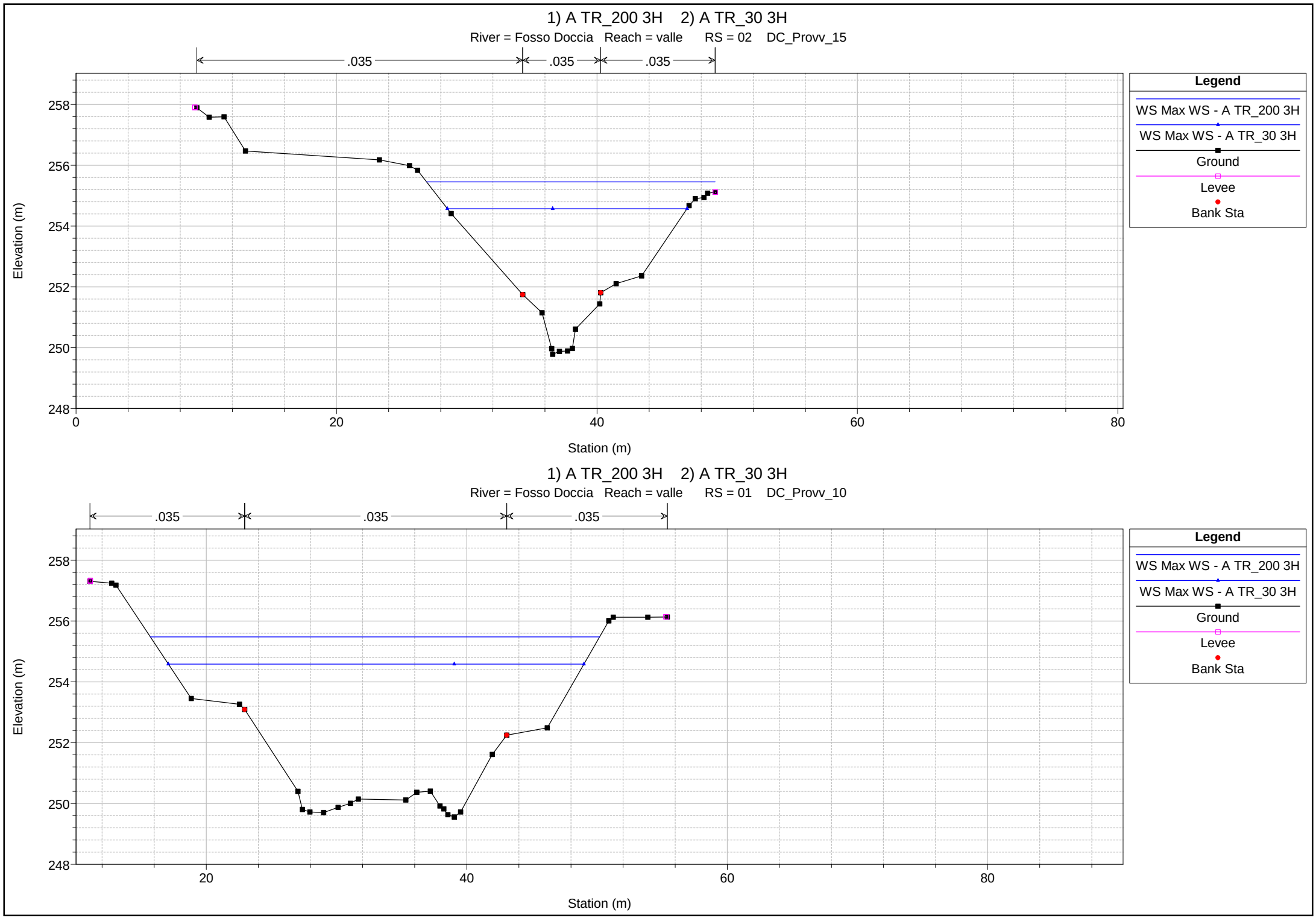
1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 3.5 m 1 cm Vert. = 1.5 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)	
Doccia	39	Max WS	A TR_200 1H	19.99	266.83	268.90	268.33	269.09	0.004240	1.93	10.51	8.02	0.51
Doccia	39	Max WS	A TR_200 2H	25.60	266.83	269.13	268.53	269.36	0.004247	2.13	12.43	8.65	0.52
Doccia	39	Max WS	A TR_200 3H	25.79	266.83	269.13	268.54	269.36	0.004252	2.14	12.49	8.66	0.52
Doccia	39	Max WS	A TR_200 4H	24.40	266.83	269.08	268.49	269.30	0.004222	2.09	12.05	8.53	0.52
Doccia	39	Max WS	A TR_200 6H	21.10	266.83	268.95	268.38	269.15	0.004165	1.96	10.96	8.17	0.51
Doccia	39	Max WS	A TR_200 8H	18.30	266.83	268.83	268.27	269.01	0.004124	1.85	10.01	7.85	0.50
Doccia	39	Max WS	A TR_200 12H	14.70	266.83	268.66	268.11	268.81	0.004126	1.70	8.69	7.38	0.49
Doccia	39	Max WS	A TR_30 1H	9.30	266.83	268.31	267.84	268.42	0.004291	1.48	6.29	6.43	0.48
Doccia	39	Max WS	A TR_30 2H	12.09	266.83	268.51	267.99	268.64	0.004273	1.59	7.62	6.97	0.48
Doccia	39	Max WS	A TR_30 3H	12.50	266.83	268.54	268.00	268.67	0.004235	1.60	7.79	7.04	0.48
Doccia	39	Max WS	A TR_30 4H	12.00	266.83	268.51	267.99	268.63	0.004274	1.58	7.58	6.96	0.48
Doccia	39	Max WS	A TR_30 6H	10.50	266.83	268.41	267.91	268.53	0.004231	1.52	6.91	6.69	0.48
Doccia	39	Max WS	A TR_30 8H	9.20	266.83	268.31	267.84	268.42	0.004175	1.46	6.30	6.43	0.47
Doccia	39	Max WS	A TR_30 12H	7.40	266.83	268.17	267.73	268.27	0.004084	1.37	5.42	6.05	0.46
Doccia	38	Max WS	A TR_200 1H	19.98	266.54	268.44	268.08	268.69	0.007319	2.21	9.03	7.57	0.64
Doccia	38	Max WS	A TR_200 2H	25.59	266.54	268.66	268.28	268.95	0.007214	2.39	10.75	8.18	0.65
Doccia	38	Max WS	A TR_200 3H	25.79	266.54	268.67	268.28	268.96	0.007211	2.40	10.80	8.20	0.65
Doccia	38	Max WS	A TR_200 4H	24.39	266.54	268.62	268.24	268.90	0.007227	2.36	10.39	8.06	0.65
Doccia	38	Max WS	A TR_200 6H	21.09	266.54	268.48	268.12	268.75	0.007389	2.26	9.33	7.68	0.65
Doccia	38	Max WS	A TR_200 8H	18.30	266.54	268.36	268.01	268.60	0.007690	2.19	8.37	7.33	0.65
Doccia	38	Max WS	A TR_200 12H	14.70	266.54	268.17	267.86	268.39	0.007920	2.09	7.05	6.80	0.65
Doccia	38	Max WS	A TR_30 1H	9.30	266.54	267.84	267.59	268.02	0.008351	1.88	4.95	5.88	0.65
Doccia	38	Max WS	A TR_30 2H	12.08	266.54	268.02	267.73	268.22	0.008154	2.00	6.04	6.38	0.66
Doccia	38	Max WS	A TR_30 3H	12.49	266.54	268.04	267.76	268.25	0.008112	2.01	6.20	6.44	0.66
Doccia	38	Max WS	A TR_30 4H	12.00	266.54	268.01	267.73	268.21	0.008147	2.00	6.01	6.36	0.66
Doccia	38	Max WS	A TR_30 6H	10.50	266.54	267.92	267.66	268.11	0.008286	1.94	5.42	6.10	0.66
Doccia	38	Max WS	A TR_30 8H	9.20	266.54	267.83	267.59	268.01	0.008405	1.88	4.90	5.85	0.66
Doccia	38	Max WS	A TR_30 12H	7.40	266.54	267.70	267.47	267.86	0.008582	1.78	4.15	5.48	0.65
Doccia	37.95			Lat Struct									
Doccia	37	Max WS	A TR_200 1H	19.91	265.32	267.78	267.00	267.94	0.003829	1.75	11.34	7.59	0.46
Doccia	37	Max WS	A TR_200 2H	25.53	265.32	268.01	267.21	268.20	0.004231	1.94	13.16	8.14	0.49
Doccia	37	Max WS	A TR_200 3H	25.74	265.32	268.02	267.22	268.21	0.004249	1.95	13.23	8.15	0.49
Doccia	37	Max WS	A TR_200 4H	24.36	265.32	267.97	267.17	268.15	0.004142	1.90	12.81	8.03	0.48
Doccia	37	Max WS	A TR_200 6H	21.07	265.32	267.83	267.04	268.00	0.003888	1.79	11.77	7.72	0.46
Doccia	37	Max WS	A TR_200 8H	18.30	265.32	267.70	266.93	267.85	0.003746	1.70	10.74	7.39	0.45
Doccia	37	Max WS	A TR_200 12H	14.70	265.32	267.49	266.76	267.62	0.003602	1.59	9.25	6.90	0.44
Doccia	37	Max WS	A TR_30 1H	9.29	265.32	267.08	266.46	267.18	0.003507	1.40	6.64	5.94	0.42
Doccia	37	Max WS	A TR_30 2H	12.06	265.32	267.31	266.62	267.42	0.003547	1.50	8.03	6.47	0.43
Doccia	37	Max WS	A TR_30 3H	12.48	265.32	267.34	266.65	267.45	0.003553	1.52	8.23	6.54	0.43
Doccia	37	Max WS	A TR_30 4H	12.00	265.32	267.30	266.62	267.42	0.003540	1.50	8.00	6.46	0.43
Doccia	37	Max WS	A TR_30 6H	10.50	265.32	267.19	266.53	267.29	0.003518	1.45	7.26	6.18	0.43
Doccia	37	Max WS	A TR_30 8H	9.20	265.32	267.07	266.45	267.17	0.003506	1.40	6.59	5.92	0.42
Doccia	37	Max WS	A TR_30 12H	7.40	265.32	266.90	266.33	266.99	0.003487	1.32	5.62	5.51	0.42
Doccia	36.96			Lat Struct									
Doccia	36.95			Lat Struct									
Doccia	36	Max WS	A TR_200 1H	19.89	264.99	267.32	266.44	267.47	0.003205	1.66	11.97	7.46	0.42
Doccia	36	Max WS	A TR_200 2H	25.54	264.99	267.55	266.66	267.72	0.003693	1.87	13.67	7.91	0.45
Doccia	36	Max WS	A TR_200 3H	25.74	264.99	267.55	266.66	267.73	0.003714	1.88	13.73	7.92	0.45
Doccia	36	Max WS	A TR_200 4H	24.36	264.99	267.51	266.61	267.68	0.003578	1.82	13.36	7.83	0.45
Doccia	36	Max WS	A TR_200 6H	21.06	264.99	267.39	266.49	267.53	0.003243	1.69	12.43	7.59	0.42
Doccia	36	Max WS	A TR_200 8H	18.30	264.99	267.25	266.37	267.38	0.003089	1.60	11.40	7.31	0.41
Doccia	36	Max WS	A TR_200 12H	14.70	264.99	267.04	266.21	267.15	0.002895	1.48	9.93	6.90	0.39
Doccia	36	Max WS	A TR_30 1H	9.28	264.99	266.65	265.92	266.73	0.002590	1.26	7.37	6.11	0.37
Doccia	36	Max WS	A TR_30 2H	12.05	264.99	266.86	266.07	266.96	0.002745	1.38	8.74	6.54	0.38
Doccia	36	Max WS	A TR_30 3H	12.47	264.99	266.89	266.10	266.99	0.002769	1.40	8.94	6.60	0.38
Doccia	36	Max WS	A TR_30 4H	11.99	264.99	266.86	266.07	266.96	0.002740	1.38	8.72	6.54	0.38
Doccia	36	Max WS	A TR_30 6H	10.50	264.99	266.75	265.99	266.84	0.002648	1.31	8.00	6.31	0.37
Doccia	36	Max WS	A TR_30 8H	9.20	264.99	266.64	265.91	266.72	0.002565	1.25	7.35	6.10	0.36
Doccia	36	Max WS	A TR_30 12H	7.40	264.99	266.48	265.80	266.55	0.002436	1.16	6.39	5.78	0.35
Doccia	35.96			Lat Struct									
Doccia	35.95			Lat Struct									
Doccia	35	Max WS	A TR_200 1H	19.88	264.72	266.90	266.20	267.06	0.003713	1.79	11.39	8.73	0.47
Doccia	35	Max WS	A TR_200 2H	25.39	264.72	267.00	266.40	267.23	0.004896	2.13	12.32	9.06	0.54
Doccia	35	Max WS	A TR_200 3H	25.59	264.72	267.00	266.41	267.23	0.004956	2.14	12.33	9.06	0.54
Doccia	35	Max WS	A TR_200 4H	24.28	264.72	266.99	266.37	267.20	0.004576	2.05	12.22	9.03	0.52
Doccia	35	Max WS	A TR_200 6H	21.05	264.72	266.95	266.25	267.12	0.003753	1.83	11.84	8.93	0.47
Doccia	35	Max WS	A TR_200 8H	18.30	264.72	266.83	266.14	266.98	0.003636	1.74	10.78	8.45	0.46
Doccia	35	Max WS	A TR_200 12H	14.69	264.72	266.64	265.98	266.77	0.003536	1.61	9.24	7.68	0.45
Doccia	35	Max WS	A TR_30 1H	9.28	264.72	266.28	265.70	266.37	0.003417	1.37	6.75	6.31	0.42
Doccia	35	Max WS	A TR_30 2H	12.04	264.72	266.47	265.85	266.59	0.003475	1.50	8.05	7.02	0.44
Doccia	35	Max WS	A TR_30 3H	12.46	264.72	266.50	265.86	266.62	0.003481	1.52	8.25	7.13	0.44
Doccia	35	Max WS	A TR_30 4H	11.99	264.72	266.47	265.84	266.59	0.003471	1.50	8.03	7.01	0.44
Doccia	35	Max WS	A TR_30 6H	10.50	264.72	266.37	265.77	266.47	0.003447	1.43	7.34	6.60	0.43
Doccia	35	Max WS	A TR_30 8H	9.20	264.72	266.27	265.69	266.37	0.003396	1.37	6.72	6.30	0.42
Doccia	35	Max WS	A TR_30 12H	7.40	264.72	266.12	265.58	266.21	0.003277	1.28	5.80	5.93	0.41
Doccia	34.96			Lat Struct									
Doccia	34.95			Lat Struct									
Doccia	34	Max WS	A TR_200 1H	19.87	264.10	266.40	265.89	266.59	0.005483	1.91	10.40	8.57	0.55
Doccia	34	Max WS	A TR_200 2H	22.20	264.10	266.60	265.98	266.76	0.004282	1.82	12.55	12.29	0.50

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)	
Doccia	34	Max WS	A TR_200 3H	22.28	264.10	266.60	265.98	266.77	0.004287	1.82	12.58	12.30	0.50
Doccia	34	Max WS	A TR_200 4H	21.81	264.10	266.58	265.96	266.75	0.004278	1.81	12.37	12.27	0.50
Doccia	34	Max WS	A TR_200 6H	20.87	264.10	266.48	265.92	266.66	0.004953	1.88	11.19	10.74	0.53
Doccia	34	Max WS	A TR_200 8H	18.30	264.10	266.33	265.82	266.51	0.005462	1.87	9.79	8.31	0.55
Doccia	34	Max WS	A TR_200 12H	14.69	264.10	266.15	265.66	266.31	0.005363	1.76	8.36	7.68	0.54
Doccia	34	Max WS	A TR_30 1H	9.27	264.10	265.82	265.38	265.94	0.005099	1.54	6.03	6.51	0.51
Doccia	34	Max WS	A TR_30 2H	12.04	264.10	266.00	265.53	266.14	0.005265	1.66	7.25	7.15	0.53
Doccia	34	Max WS	A TR_30 3H	12.46	264.10	266.02	265.56	266.17	0.005285	1.68	7.43	7.23	0.53
Doccia	34	Max WS	A TR_30 4H	11.99	264.10	266.00	265.54	266.14	0.005259	1.66	7.23	7.14	0.53
Doccia	34	Max WS	A TR_30 6H	10.50	264.10	265.90	265.46	266.03	0.005196	1.60	6.57	6.80	0.52
Doccia	34	Max WS	A TR_30 8H	9.20	264.10	265.81	265.38	265.93	0.005126	1.54	5.98	6.49	0.51
Doccia	34	Max WS	A TR_30 12H	7.40	264.10	265.68	265.26	265.78	0.005023	1.44	5.12	5.99	0.50
Doccia	33.96			Lat Struct									
Doccia	33.95			Lat Struct									
Doccia	33	Max WS	A TR_200 1H	19.87	263.83	266.00	265.34	266.17	0.003168	1.82	10.94	9.82	0.46
Doccia	33	Max WS	A TR_200 2H	21.98	263.83	266.35	265.41	266.49	0.002004	1.65	13.33	11.07	0.38
Doccia	33	Max WS	A TR_200 3H	22.02	263.83	266.35	265.41	266.49	0.001998	1.65	13.36	11.08	0.38
Doccia	33	Max WS	A TR_200 4H	21.72	263.83	266.32	265.40	266.46	0.002053	1.65	13.14	10.97	0.38
Doccia	33	Max WS	A TR_200 6H	20.87	263.83	266.16	265.37	266.31	0.002535	1.73	12.05	10.40	0.42
Doccia	33	Max WS	A TR_200 8H	18.30	263.83	265.94	265.28	266.09	0.003057	1.74	10.52	9.61	0.45
Doccia	33	Max WS	A TR_200 12H	14.69	263.83	265.76	265.13	265.89	0.002974	1.58	9.30	8.97	0.43
Doccia	33	Max WS	A TR_30 1H	9.27	263.83	265.43	264.88	265.52	0.002909	1.31	7.08	7.81	0.41
Doccia	33	Max WS	A TR_30 2H	12.03	263.83	265.61	265.02	265.72	0.002901	1.45	8.31	8.46	0.42
Doccia	33	Max WS	A TR_30 3H	12.46	263.83	265.64	265.03	265.75	0.002919	1.47	8.47	8.54	0.42
Doccia	33	Max WS	A TR_30 4H	11.98	263.83	265.61	265.01	265.72	0.002899	1.44	8.29	8.45	0.42
Doccia	33	Max WS	A TR_30 6H	10.50	263.83	265.52	264.94	265.62	0.002881	1.37	7.68	8.13	0.41
Doccia	33	Max WS	A TR_30 8H	9.20	263.83	265.44	264.88	265.52	0.002849	1.30	7.10	7.82	0.40
Doccia	33	Max WS	A TR_30 12H	7.40	263.83	265.30	264.78	265.37	0.002720	1.19	6.20	7.26	0.39
Doccia	32.5			Bridge									
Doccia	32	Max WS	A TR_200 1H	19.87	263.82	265.93	265.33	266.12	0.003724	1.96	10.50	9.12	0.49
Doccia	32	Max WS	A TR_200 2H	21.98	263.82	266.03	265.41	266.24	0.003699	2.03	11.21	9.46	0.49
Doccia	32	Max WS	A TR_200 3H	22.02	263.82	266.04	265.41	266.24	0.003701	2.04	11.22	9.47	0.49
Doccia	32	Max WS	A TR_200 4H	21.72	263.82	266.02	265.41	266.23	0.003691	2.02	11.13	9.43	0.49
Doccia	32	Max WS	A TR_200 6H	20.87	263.82	265.99	265.37	266.18	0.003658	1.99	10.89	9.31	0.48
Doccia	32	Max WS	A TR_200 8H	18.30	263.82	265.87	265.27	266.05	0.003560	1.87	10.11	8.93	0.47
Doccia	32	Max WS	A TR_200 12H	14.69	263.82	265.70	265.11	265.85	0.003396	1.70	8.93	8.35	0.45
Doccia	32	Max WS	A TR_30 1H	9.27	263.82	265.39	264.84	265.49	0.003176	1.39	6.77	7.09	0.42
Doccia	32	Max WS	A TR_30 2H	12.03	263.82	265.56	264.99	265.68	0.003253	1.55	7.97	7.88	0.44
Doccia	32	Max WS	A TR_30 3H	12.45	263.82	265.59	265.01	265.71	0.003278	1.58	8.13	7.95	0.44
Doccia	32	Max WS	A TR_30 4H	11.98	263.82	265.56	264.98	265.68	0.003248	1.55	7.95	7.87	0.43
Doccia	32	Max WS	A TR_30 6H	10.50	263.82	265.47	264.91	265.58	0.003169	1.46	7.36	7.49	0.42
Doccia	32	Max WS	A TR_30 8H	9.20	263.82	265.39	264.83	265.49	0.003091	1.38	6.80	7.11	0.41
Doccia	32	Max WS	A TR_30 12H	7.40	263.82	265.27	264.72	265.35	0.003022	1.26	5.93	6.50	0.40
Doccia	31	Max WS	A TR_200 1H	19.86	263.56	265.80	265.28	266.01	0.004964	2.01	9.89	8.34	0.55
Doccia	31	Max WS	A TR_200 2H	21.97	263.56	265.91	265.36	266.12	0.004776	2.07	10.63	8.65	0.54
Doccia	31	Max WS	A TR_200 3H	22.02	263.56	265.91	265.36	266.13	0.004773	2.07	10.64	8.65	0.54
Doccia	31	Max WS	A TR_200 4H	21.72	263.56	265.89	265.35	266.11	0.004780	2.06	10.55	8.61	0.54
Doccia	31	Max WS	A TR_200 6H	20.86	263.56	265.86	265.32	266.07	0.004788	2.03	10.29	8.51	0.54
Doccia	31	Max WS	A TR_200 8H	18.30	263.56	265.75	265.22	265.94	0.004839	1.93	9.48	8.17	0.53
Doccia	31	Max WS	A TR_200 12H	14.69	263.56	265.58	265.08	265.74	0.004645	1.77	8.29	7.62	0.52
Doccia	31	Max WS	A TR_30 1H	9.27	263.56	265.28	264.79	265.39	0.004118	1.47	6.31	6.64	0.47
Doccia	31	Max WS	A TR_30 2H	12.03	263.56	265.44	264.95	265.58	0.004375	1.63	7.38	7.18	0.49
Doccia	31	Max WS	A TR_30 3H	12.45	263.56	265.46	264.97	265.60	0.004426	1.65	7.53	7.25	0.50
Doccia	31	Max WS	A TR_30 4H	11.98	263.56	265.44	264.94	265.57	0.004368	1.63	7.37	7.17	0.49
Doccia	31	Max WS	A TR_30 6H	10.50	263.56	265.36	264.87	265.48	0.004188	1.54	6.83	6.90	0.48
Doccia	31	Max WS	A TR_30 8H	9.20	263.56	265.28	264.79	265.39	0.004003	1.45	6.34	6.65	0.46
Doccia	31	Max WS	A TR_30 12H	7.40	263.56	265.16	264.67	265.25	0.003811	1.33	5.57	6.25	0.45
Doccia	30.5			Bridge									
Doccia	30	Max WS	A TR_200 1H	19.86	263.67	265.79	265.22	265.97	0.002989	1.87	10.65	8.72	0.49
Doccia	30	Max WS	A TR_200 2H	21.97	263.67	265.88	265.30	266.07	0.002974	1.94	11.33	9.00	0.50
Doccia	30	Max WS	A TR_200 3H	22.02	263.67	265.89	265.30	266.08	0.002974	1.94	11.35	9.00	0.50
Doccia	30	Max WS	A TR_200 4H	21.72	263.67	265.87	265.29	266.06	0.002963	1.93	11.27	8.97	0.50
Doccia	30	Max WS	A TR_200 6H	20.87	263.67	265.84	265.26	266.02	0.002930	1.89	11.03	8.88	0.49
Doccia	30	Max WS	A TR_200 8H	18.30	263.67	265.74	265.17	265.90	0.002844	1.78	10.29	8.58	0.48
Doccia	30	Max WS	A TR_200 12H	14.69	263.67	265.58	265.01	265.71	0.002743	1.61	9.12	8.11	0.46
Doccia	30	Max WS	A TR_30 1H	9.27	263.67	265.28	264.74	265.37	0.002620	1.34	6.93	7.18	0.43
Doccia	30	Max WS	A TR_30 2H	12.03	263.67	265.45	264.89	265.56	0.002684	1.48	8.14	7.71	0.45
Doccia	30	Max WS	A TR_30 3H	12.45	263.67	265.47	264.91	265.58	0.002693	1.50	8.30	7.78	0.45
Doccia	30	Max WS	A TR_30 4H	11.98	263.67	265.44	264.89	265.55	0.002685	1.48	8.12	7.71	0.45
Doccia	30	Max WS	A TR_30 6H	10.50	263.67	265.36	264.81	265.46	0.002630	1.40	7.52	7.45	0.44
Doccia	30	Max WS	A TR_30 8H	9.20	263.67	265.28	264.74	265.37	0.002545	1.32	6.96	7.20	0.43
Doccia	30	Max WS	A TR_30 12H	7.40	263.67	265.16	264.63	265.23	0.002426	1.22	6.08	6.77	0.41
Doccia	29	Max WS	A TR_200 1H	19.86	263.28	265.33	265.04	265.59	0.005401	2.31	9.10	9.10	0.64
Doccia	29	Max WS	A TR_200 2H	21.97	263.28	265.40	265.12	265.68	0.005381	2.39	9.81	9.47	0.65
Doccia	29	Max WS	A TR_200 3H	22.02	263.28	265.41	265.12	265.69	0.005377	2.39	9.83	9.48	0.65
Doccia	29	Max WS	A TR_200 4H	21.72	263.28	265.39	265.10	265.67	0.005383	2.38	9.73	9.43	0.65
Doccia	29	Max WS	A TR_200 6H	20.86	263.28	265.36	265.07	265.63	0.005424	2.35	9.42	9.27	0.65
Doccia	29	Max WS	A TR_200 8H	18.30	263.28	265.26	264.98	265.51	0.005566	2.26	8.49	8.77	0.65
Doccia	29	Max WS	A TR_200 12H	14.69	263.28	265.10	264.84	265.33	0.005801	2.11	7.18	8.00	0.65
Doccia	29	Max WS	A TR_30 1H	9.26	263.28	264.83	264.58	264.99	0.006230	1.80	5.16	6.67	0.64
Doccia	29	Max WS	A TR_30 2H	12.03	263.28	264.97	264.72	265.17	0.006029	1.97	6.19	7.37	0.65
Doccia	29	Max WS	A TR_30 3H	12.45	263.28	265.00	264.74	265.20	0.005981	2.00	6.35	7.48	0.65

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)	
Doccia	29	Max WS	A TR_30 4H	11.98	263.28	264.97	264.72	265.17	0.006027	1.97	6.17	7.36	0.65
Doccia	29	Max WS	A TR_30 6H	10.50	263.28	264.89	264.65	265.07	0.006180	1.88	5.62	6.98	0.64
Doccia	29	Max WS	A TR_30 8H	9.20	263.28	264.82	264.58	264.99	0.006253	1.80	5.13	6.65	0.64
Doccia	29	Max WS	A TR_30 12H	7.40	263.28	264.71	264.46	264.85	0.006236	1.68	4.40	6.15	0.63
Doccia	28.95			Lat Struct									
Doccia	28	Max WS	A TR_200 1H	19.85	262.61	264.84	264.45	265.09	0.004325	2.35	9.54	8.34	0.59
Doccia	28	Max WS	A TR_200 2H	21.94	262.61	264.93	264.54	265.19	0.004351	2.43	10.24	8.60	0.60
Doccia	28	Max WS	A TR_200 3H	21.99	262.61	264.93	264.54	265.19	0.004352	2.43	10.26	8.60	0.60
Doccia	28	Max WS	A TR_200 4H	21.71	262.61	264.92	264.53	265.18	0.004339	2.42	10.18	8.58	0.59
Doccia	28	Max WS	A TR_200 6H	20.86	262.61	264.88	264.50	265.14	0.004340	2.39	9.89	8.49	0.59
Doccia	28	Max WS	A TR_200 8H	18.30	262.61	264.77	264.40	265.01	0.004345	2.28	8.98	8.09	0.59
Doccia	28	Max WS	A TR_200 12H	14.69	262.61	264.60	264.24	264.81	0.004388	2.12	7.63	7.45	0.58
Doccia	28	Max WS	A TR_30 1H	9.26	262.61	264.28	263.95	264.44	0.004560	1.82	5.46	6.29	0.56
Doccia	28	Max WS	A TR_30 2H	12.02	262.61	264.46	264.11	264.64	0.004454	1.98	6.59	6.91	0.57
Doccia	28	Max WS	A TR_30 3H	12.45	262.61	264.48	264.14	264.67	0.004437	2.01	6.76	7.01	0.57
Doccia	28	Max WS	A TR_30 4H	11.98	262.61	264.45	264.11	264.64	0.004453	1.98	6.57	6.91	0.57
Doccia	28	Max WS	A TR_30 6H	10.50	262.61	264.36	264.03	264.53	0.004506	1.89	5.97	6.58	0.57
Doccia	28	Max WS	A TR_30 8H	9.20	262.61	264.28	263.95	264.44	0.004582	1.81	5.43	6.27	0.56
Doccia	28	Max WS	A TR_30 12H	7.40	262.61	264.14	263.82	264.28	0.004612	1.70	4.62	5.76	0.56
Doccia	27.95			Lat Struct									
Doccia	27	Max WS	A TR_200 1H	19.83	262.17	264.44	263.94	264.65	0.003179	2.15	10.53	8.82	0.51
Doccia	27	Max WS	A TR_200 2H	21.92	262.17	264.55	264.03	264.77	0.003102	2.21	11.47	9.20	0.51
Doccia	27	Max WS	A TR_200 3H	21.96	262.17	264.55	264.03	264.77	0.003102	2.21	11.49	9.21	0.51
Doccia	27	Max WS	A TR_200 4H	21.70	262.17	264.54	264.02	264.76	0.003100	2.20	11.39	9.17	0.51
Doccia	27	Max WS	A TR_200 6H	20.85	262.17	264.50	263.99	264.71	0.003084	2.17	11.07	9.04	0.50
Doccia	27	Max WS	A TR_200 8H	18.29	262.17	264.39	263.88	264.59	0.003030	2.06	10.09	8.63	0.49
Doccia	27	Max WS	A TR_200 12H	14.69	262.17	264.22	263.69	264.39	0.002933	1.89	8.65	7.98	0.48
Doccia	27	Max WS	A TR_30 1H	9.25	262.17	263.89	263.37	264.01	0.002811	1.59	6.21	6.76	0.45
Doccia	27	Max WS	A TR_30 2H	12.02	262.17	264.07	263.53	264.22	0.002851	1.75	7.51	7.44	0.46
Doccia	27	Max WS	A TR_30 3H	12.44	262.17	264.09	263.56	264.25	0.002866	1.78	7.70	7.53	0.47
Doccia	27	Max WS	A TR_30 4H	11.97	262.17	264.07	263.54	264.21	0.002848	1.75	7.49	7.43	0.46
Doccia	27	Max WS	A TR_30 6H	10.49	262.17	263.98	263.45	264.11	0.002797	1.66	6.83	7.10	0.45
Doccia	27	Max WS	A TR_30 8H	9.20	262.17	263.89	263.37	264.01	0.002751	1.58	6.23	6.77	0.44
Doccia	27	Max WS	A TR_30 12H	7.40	262.17	263.75	263.25	263.86	0.002698	1.45	5.34	6.22	0.43
Doccia	26	Max WS	A TR_200 1H	19.82	261.88	264.09	263.66	264.33	0.004399	2.22	9.38	8.07	0.58
Doccia	26	Max WS	A TR_200 2H	21.90	261.88	264.19	263.75	264.44	0.004276	2.28	10.18	8.48	0.58
Doccia	26	Max WS	A TR_200 3H	21.95	261.88	264.19	263.75	264.44	0.004271	2.28	10.20	8.49	0.58
Doccia	26	Max WS	A TR_200 4H	21.69	261.88	264.18	263.74	264.43	0.004271	2.27	10.11	8.45	0.58
Doccia	26	Max WS	A TR_200 6H	20.85	261.88	264.15	263.70	264.39	0.004240	2.23	9.85	8.32	0.57
Doccia	26	Max WS	A TR_200 8H	18.29	261.88	264.05	263.59	264.27	0.004135	2.11	9.05	7.90	0.56
Doccia	26	Max WS	A TR_200 12H	14.68	261.88	263.89	263.42	264.08	0.003961	1.92	7.88	7.25	0.54
Doccia	26	Max WS	A TR_30 1H	9.25	261.88	263.58	263.13	263.71	0.003696	1.60	5.83	6.08	0.50
Doccia	26	Max WS	A TR_30 2H	12.02	261.88	263.76	263.29	263.92	0.003824	1.76	6.97	6.71	0.52
Doccia	26	Max WS	A TR_30 3H	12.44	261.88	263.78	263.32	263.95	0.003862	1.79	7.12	6.79	0.52
Doccia	26	Max WS	A TR_30 4H	11.97	261.88	263.76	263.29	263.92	0.003817	1.76	6.95	6.70	0.52
Doccia	26	Max WS	A TR_30 6H	10.49	261.88	263.68	263.21	263.82	0.003666	1.66	6.40	6.40	0.50
Doccia	26	Max WS	A TR_30 8H	9.20	261.88	263.59	263.12	263.72	0.003543	1.58	5.89	6.11	0.49
Doccia	26	Max WS	A TR_30 12H	7.40	261.88	263.46	263.00	263.57	0.003408	1.45	5.11	5.64	0.47
Doccia	25	Max WS	A TR_200 1H	17.06	261.76	263.37	263.24	263.68	0.007235	2.52	7.34	8.43	0.74
Doccia	25	Max WS	A TR_200 2H	19.51	261.76	263.44	263.33	263.79	0.007583	2.68	7.95	8.65	0.76
Doccia	25	Max WS	A TR_200 3H	19.05	261.76	263.45	263.31	263.77	0.007086	2.60	8.01	8.67	0.74
Doccia	25	Max WS	A TR_200 4H	18.67	261.76	263.43	263.30	263.75	0.007241	2.60	7.83	8.61	0.74
Doccia	25	Max WS	A TR_200 6H	18.86	261.76	263.39	263.31	263.75	0.008286	2.73	7.51	8.50	0.79
Doccia	25	Max WS	A TR_200 8H	17.15	261.76	263.28	263.25	263.66	0.009897	2.79	6.58	8.15	0.85
Doccia	25	Max WS	A TR_200 12H	13.85	261.76	263.15	263.11	263.49	0.010276	2.62	5.55	7.76	0.85
Doccia	25	Max WS	A TR_30 1H	9.11	261.76	262.83	262.83	263.18	0.015236	2.59	3.51	4.94	0.98
Doccia	25	Max WS	A TR_30 2H	11.11	261.76	263.03	262.94	263.33	0.010515	2.43	4.66	7.40	0.84
Doccia	25	Max WS	A TR_30 3H	11.73	261.76	263.05	262.98	263.37	0.011126	2.53	4.75	7.44	0.87
Doccia	25	Max WS	A TR_30 4H	11.28	261.76	263.03	262.95	263.34	0.011202	2.49	4.60	7.37	0.86
Doccia	25	Max WS	A TR_30 6H	10.35	261.76	262.92	262.90	263.27	0.014217	2.61	3.96	5.21	0.96
Doccia	25	Max WS	A TR_30 8H	9.18	261.76	262.83	262.83	263.18	0.015456	2.61	3.51	4.94	0.99
Doccia	25	Max WS	A TR_30 12H	6.97	261.76	262.73	262.69	263.00	0.013645	2.32	3.00	4.60	0.92
Doccia	24.8			Inl Struct									
Doccia	24.7	Max WS	A TR_200 1H	20.80	258.54	261.17	259.69	261.26	0.001685	1.31	15.93	9.30	0.32
Doccia	24.7	Max WS	A TR_200 2H	24.07	258.54	261.34	259.81	261.43	0.001758	1.38	17.47	9.82	0.33
Doccia	24.7	Max WS	A TR_200 3H	23.88	258.54	261.34	259.81	261.43	0.001725	1.37	17.49	9.83	0.33
Doccia	24.7	Max WS	A TR_200 4H	22.89	258.54	261.32	259.77	261.41	0.001619	1.32	17.35	9.78	0.32
Doccia	24.7	Max WS	A TR_200 6H	21.50	258.54	261.27	259.72	261.35	0.001548	1.28	16.84	9.61	0.31
Doccia	24.7	Max WS	A TR_200 8H	18.65	258.54	261.15	259.61	261.22	0.001411	1.19	15.69	9.21	0.29
Doccia	24.7	Max WS	A TR_200 12H	14.89	258.54	260.96	259.46	261.02	0.001207	1.06	14.06	8.62	0.26
Doccia	24.7	Max WS	A TR_30 1H	9.25	258.54	260.58	259.21	260.61	0.000908	0.84	10.95	7.35	0.22
Doccia	24.7	Max WS	A TR_30 2H	12.39	258.54	260.82	259.36	260.87	0.001064	0.96	12.85	8.15	0.25
Doccia	24.7	Max WS	A TR_30 3H	12.73	258.54	260.84	259.37	260.89	0.001082	0.98	13.03	8.22	0.25
Doccia	24.7	Max WS	A TR_30 4H	12.18	258.54	260.81	259.35	260.86	0.001038	0.95	12.80	8.13	0.24
Doccia	24.7	Max WS	A TR_30 6H	10.57	258.54	260.71	259.28	260.75	0.000932	0.88	11.99	7.80	0.23
Doccia	24.7	Max WS	A TR_30 8H	9.22	258.54	260.62	259.21	260.65	0.000842	0.82	11.24	7.48	0.21
Doccia	24.7	Max WS	A TR_30 12H	7.40	258.54	260.48	259.12	260.51	0.000540	0.71	10.37	5.46	0.17
Doccia	24	Max WS	A TR_200 1H	17.83	259.04	260.68	260.55	261.03	0.008142	2.67	7.02	7.46	0.78
Doccia	24	Max WS	A TR_200 2H	20.09	259.04	260.76	260.64	261.14	0.008112	2.79	7.65	7.70	0.79
Doccia	24	Max WS	A TR_200 3H	20.48	259.04	260.76	260.65	261.16	0.008316	2.83	7.69	7.72	0.80
Doccia	24	Max WS	A TR_200 4H	20.20	259.04	260.76	260.64	261.15	0.008271	2.81	7.63	7.69	0.79
Doccia	24	Max WS	A TR_200 6H	19.36	259.04	260.69	260.61	261.10	0.009227	2.87	7.12	7.50	0.83

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)	
Doccia	24	Max WS	A TR_200 8H	16.88	259.04	260.59	260.52	260.97	0.009639	2.76	6.37	7.19	0.84
Doccia	24	Max WS	A TR_200 12H	13.98	259.04	260.43	260.39	260.80	0.011298	2.71	5.29	6.72	0.88
Doccia	24	Max WS	A TR_30 1H	9.18	259.04	260.12	260.11	260.47	0.015570	2.62	3.50	4.90	0.99
Doccia	24	Max WS	A TR_30 2H	11.84	259.04	260.30	260.27	260.67	0.013567	2.68	4.42	6.32	0.94
Doccia	24	Max WS	A TR_30 3H	12.14	259.04	260.32	260.28	260.69	0.012865	2.67	4.58	6.40	0.92
Doccia	24	Max WS	A TR_30 4H	11.84	259.04	260.28	260.27	260.66	0.014606	2.75	4.31	5.38	0.98
Doccia	24	Max WS	A TR_30 6H	10.42	259.04	260.20	260.19	260.57	0.014906	2.67	3.91	5.15	0.98
Doccia	24	Max WS	A TR_30 8H	9.17	259.04	260.12	260.12	260.47	0.015552	2.62	3.50	4.90	0.99
Doccia	24	Max WS	A TR_30 12H	7.37	259.04	260.04	260.00	260.33	0.013758	2.37	3.11	4.65	0.92
Doccia	23.95			Inl Struct									
Doccia	23.9	Max WS	A TR_200 1H	21.55	256.40	259.29	257.51	259.34	0.000745	0.98	21.97	11.76	0.23
Doccia	23.9	Max WS	A TR_200 2H	23.95	256.40	259.44	257.59	259.49	0.000726	1.01	23.72	11.94	0.23
Doccia	23.9	Max WS	A TR_200 3H	23.74	256.40	259.44	257.59	259.49	0.000713	1.00	23.72	11.94	0.23
Doccia	23.9	Max WS	A TR_200 4H	23.55	256.40	259.43	257.58	259.48	0.000718	1.00	23.56	11.94	0.23
Doccia	23.9	Max WS	A TR_200 6H	21.88	256.40	259.38	257.53	259.42	0.000669	0.95	23.00	11.89	0.22
Doccia	23.9	Max WS	A TR_200 8H	18.97	256.40	259.27	257.43	259.30	0.000601	0.87	21.68	11.72	0.21
Doccia	23.9	Max WS	A TR_200 12H	15.18	256.40	259.08	257.28	259.11	0.000507	0.77	19.59	11.12	0.19
Doccia	23.9	Max WS	A TR_30 1H	9.25	256.40	258.71	257.03	258.73	0.000346	0.59	15.69	9.90	0.15
Doccia	23.9	Max WS	A TR_30 2H	12.24	256.40	258.92	257.16	258.95	0.000425	0.69	17.86	10.60	0.17
Doccia	23.9	Max WS	A TR_30 3H	12.73	256.40	258.95	257.18	258.98	0.000440	0.70	18.15	10.69	0.17
Doccia	23.9	Max WS	A TR_30 4H	12.16	256.40	258.92	257.16	258.95	0.000420	0.68	17.84	10.59	0.17
Doccia	23.9	Max WS	A TR_30 6H	10.53	256.40	258.83	257.09	258.85	0.000369	0.63	16.84	10.28	0.16
Doccia	23.9	Max WS	A TR_30 8H	9.22	256.40	258.74	257.03	258.76	0.000328	0.58	15.95	9.99	0.15
Doccia	23.9	Max WS	A TR_30 12H	7.40	256.40	258.60	256.95	258.61	0.000268	0.51	14.61	9.53	0.13
Doccia	23	Max WS	A TR_200 1H	20.32	256.95	258.88	258.75	259.20	0.006785	2.66	9.22	12.52	0.72
Doccia	23	Max WS	A TR_200 2H	22.60	256.95	258.97	258.85	259.28	0.006539	2.71	10.30	13.85	0.71
Doccia	23	Max WS	A TR_200 3H	22.68	256.95	258.97	258.85	259.29	0.006538	2.71	10.34	13.88	0.71
Doccia	23	Max WS	A TR_200 4H	22.46	256.95	258.96	258.84	259.28	0.006543	2.70	10.24	13.78	0.71
Doccia	23	Max WS	A TR_200 6H	21.30	256.95	258.93	258.79	259.24	0.006503	2.65	9.80	13.24	0.70
Doccia	23	Max WS	A TR_200 8H	18.74	256.95	258.84	258.67	259.13	0.006658	2.57	8.66	11.77	0.71
Doccia	23	Max WS	A TR_200 12H	14.97	256.95	258.69	258.54	258.96	0.006766	2.40	7.08	9.49	0.70
Doccia	23	Max WS	A TR_30 1H	9.25	256.95	258.42	258.24	258.62	0.006761	2.03	4.87	7.24	0.67
Doccia	23	Max WS	A TR_30 2H	12.04	256.95	258.56	258.40	258.80	0.006740	2.23	5.96	8.34	0.68
Doccia	23	Max WS	A TR_30 3H	12.49	256.95	258.58	258.42	258.82	0.006730	2.25	6.14	8.51	0.68
Doccia	23	Max WS	A TR_30 4H	12.04	256.95	258.56	258.40	258.80	0.006752	2.23	5.96	8.34	0.68
Doccia	23	Max WS	A TR_30 6H	10.50	256.95	258.49	258.31	258.71	0.006787	2.13	5.35	7.75	0.68
Doccia	23	Max WS	A TR_30 8H	9.20	256.95	258.42	258.24	258.62	0.006802	2.03	4.84	7.21	0.67
Doccia	23	Max WS	A TR_30 12H	7.40	256.95	258.31	258.12	258.49	0.006835	1.88	4.12	6.37	0.66
Doccia	22	Max WS	A TR_200 1H	20.00	256.47	258.29	258.06	258.57	0.005605	2.40	8.96	9.64	0.67
Doccia	22	Max WS	A TR_200 2H	22.21	256.47	258.38	258.14	258.67	0.005328	2.45	9.88	10.21	0.67
Doccia	22	Max WS	A TR_200 3H	22.23	256.47	258.39	258.14	258.68	0.005296	2.44	9.91	10.23	0.66
Doccia	22	Max WS	A TR_200 4H	22.08	256.47	258.38	258.13	258.67	0.005351	2.45	9.82	10.18	0.67
Doccia	22	Max WS	A TR_200 6H	21.10	256.47	258.35	258.10	258.63	0.005321	2.40	9.51	9.99	0.66
Doccia	22	Max WS	A TR_200 8H	18.62	256.47	258.26	258.00	258.52	0.005350	2.30	8.65	9.43	0.66
Doccia	22	Max WS	A TR_200 12H	14.83	256.47	258.11	257.85	258.34	0.005316	2.11	7.34	8.52	0.64
Doccia	22	Max WS	A TR_30 1H	9.24	256.47	257.83	257.59	258.00	0.005711	1.80	5.19	6.76	0.63
Doccia	22	Max WS	A TR_30 2H	12.02	256.47	257.99	257.73	258.18	0.005292	1.95	6.33	7.75	0.63
Doccia	22	Max WS	A TR_30 3H	12.46	256.47	258.01	257.75	258.21	0.005281	1.97	6.50	7.88	0.63
Doccia	22	Max WS	A TR_30 4H	12.00	256.47	257.99	257.73	258.18	0.005309	1.95	6.32	7.74	0.63
Doccia	22	Max WS	A TR_30 6H	10.50	256.47	257.91	257.65	258.09	0.005333	1.85	5.76	7.28	0.62
Doccia	22	Max WS	A TR_30 8H	9.20	256.47	257.84	257.58	258.00	0.005477	1.78	5.24	6.81	0.62
Doccia	22	Max WS	A TR_30 12H	7.40	256.47	257.72	257.48	257.86	0.005637	1.67	4.45	6.26	0.62
Doccia	21	Max WS	A TR_200 1H	17.84	255.93	257.62	257.48	257.98	0.009051	2.66	6.93	8.24	0.80
Doccia	21	Max WS	A TR_200 2H	20.16	255.93	257.72	257.60	258.09	0.008418	2.72	7.80	8.57	0.78
Doccia	21	Max WS	A TR_200 3H	20.10	255.93	257.72	257.60	258.09	0.008467	2.72	7.76	8.55	0.78
Doccia	21	Max WS	A TR_200 4H	19.84	255.93	257.72	257.59	258.08	0.008330	2.69	7.73	8.54	0.78
Doccia	21	Max WS	A TR_200 6H	19.49	255.93	257.65	257.57	258.05	0.009919	2.83	7.16	8.33	0.84
Doccia	21	Max WS	A TR_200 8H	17.84	255.93	257.52	257.49	257.96	0.012619	2.95	6.11	7.49	0.93
Doccia	21	Max WS	A TR_200 12H	14.64	255.93	257.33	257.32	257.77	0.014912	2.95	4.96	5.47	0.99
Doccia	21	Max WS	A TR_30 1H	9.23	255.93	257.09	257.03	257.40	0.012633	2.46	3.75	4.82	0.89
Doccia	21	Max WS	A TR_30 2H	11.96	255.93	257.19	257.19	257.60	0.015174	2.82	4.24	5.09	0.99
Doccia	21	Max WS	A TR_30 3H	12.39	255.93	257.22	257.21	257.63	0.015248	2.85	4.35	5.15	0.99
Doccia	21	Max WS	A TR_30 4H	11.97	255.93	257.19	257.19	257.60	0.015195	2.82	4.24	5.09	0.99
Doccia	21	Max WS	A TR_30 6H	10.49	255.93	257.14	257.10	257.50	0.013778	2.63	3.99	4.96	0.94
Doccia	21	Max WS	A TR_30 8H	9.19	255.93	257.09	257.02	257.40	0.012618	2.46	3.74	4.81	0.89
Doccia	21	Max WS	A TR_30 12H	7.40	255.93	256.97	256.90	257.25	0.012761	2.33	3.17	4.48	0.89
Doccia	20.95			Inl Struct									
Doccia	20.9	Max WS	A TR_200 1H	21.16	254.28	257.01	255.41	257.09	0.001081	1.30	17.11	9.18	0.25
Doccia	20.9	Max WS	A TR_200 2H	24.21	254.28	257.08	255.51	257.18	0.001275	1.44	17.81	9.50	0.28
Doccia	20.9	Max WS	A TR_200 3H	23.43	254.28	257.08	255.48	257.17	0.001204	1.39	17.76	9.48	0.27
Doccia	20.9	Max WS	A TR_200 4H	23.13	254.28	257.06	255.47	257.15	0.001201	1.39	17.60	9.40	0.27
Doccia	20.9	Max WS	A TR_200 6H	21.77	254.28	257.03	255.43	257.11	0.001115	1.33	17.28	9.26	0.26
Doccia	20.9	Max WS	A TR_200 8H	18.72	254.28	256.97	255.32	257.04	0.000891	1.17	16.78	9.02	0.23
Doccia	20.9	Max WS	A TR_200 12H	14.80	254.28	256.85	255.17	256.90	0.000661	0.98	15.72	8.51	0.20
Doccia	20.9	Max WS	A TR_30 1H	8.58	254.28	256.26	254.91	256.29	0.000549	0.75	11.47	6.05	0.17
Doccia	20.9	Max WS	A TR_30 2H	11.70	254.28	256.56	255.05	256.60	0.000640	0.88	13.40	7.24	0.19
Doccia	20.9	Max WS	A TR_30 3H	12.38	254.28	256.62	255.07	256.67	0.000644	0.91	13.92	7.54	0.19
Doccia	20.9	Max WS	A TR_30 4H	11.95	254.28	256.61	255.06	256.65	0.000612	0.88	13.82	7.48	0.18
Doccia	20.9	Max WS	A TR_30 6H	10.49	254.28	256.50	254.99	256.53	0.000564	0.82	12.98	6.98	0.18
Doccia	20.9	Max WS	A TR_30 8H	9.19	254.28	256.37	254.93	256.40	0.000531	0.76	12.12	6.44	0.17
Doccia	20.9	Max WS	A TR_30 12H	7.40	254.28	256.16	254.85	256.19	0.000480	0.68	10.87	5.86	0.16
Doccia	20.05	Max WS	A TR_200 1H	20.08	253.71	256.95	255.10	256.97	0.000200	0.72	32.15	18.26	0.14
Doccia	20.05	Max WS	A TR_200 2H	21.88	253.71	257.01	255.16	257.03	0.000218	0.76	33.23	18.64	0.15

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)	
Doccia	20.05	Max WS	A TR_200 3H	22.11	253.71	257.01	255.17	257.04	0.000222	0.76	33.26	18.65	0.15
Doccia	20.05	Max WS	A TR_200 4H	21.89	253.71	257.00	255.16	257.03	0.000221	0.76	33.07	18.58	0.15
Doccia	20.05	Max WS	A TR_200 6H	20.86	253.71	256.98	255.13	257.00	0.000208	0.73	32.63	18.42	0.14
Doccia	20.05	Max WS	A TR_200 8H	18.45	253.71	256.94	255.05	256.96	0.000173	0.66	31.92	18.22	0.13
Doccia	20.05	Max WS	A TR_200 12H	14.72	253.71	256.83	254.91	256.84	0.000131	0.56	29.94	17.81	0.11
Doccia	20.05	Max WS	A TR_30 1H	8.47	253.71	256.23	254.64	256.24	0.000129	0.46	20.00	15.64	0.11
Doccia	20.05	Max WS	A TR_30 2H	11.54	253.71	256.53	254.78	256.54	0.000135	0.52	24.77	16.72	0.11
Doccia	20.05	Max WS	A TR_30 3H	12.33	253.71	256.60	254.81	256.61	0.000136	0.53	25.96	16.98	0.11
Doccia	20.05	Max WS	A TR_30 4H	11.94	253.71	256.59	254.80	256.60	0.000130	0.52	25.76	16.93	0.11
Doccia	20.05	Max WS	A TR_30 6H	10.48	253.71	256.47	254.73	256.48	0.000124	0.49	23.79	16.50	0.11
Doccia	20.05	Max WS	A TR_30 8H	9.19	253.71	256.34	254.67	256.35	0.000123	0.47	21.69	16.03	0.11
Doccia	20.05	Max WS	A TR_30 12H	7.40	253.71	256.13	254.58	256.14	0.000123	0.43	18.42	15.27	0.10
valle	20	Max WS	A TR_200 1H	39.53	253.67	256.95	255.58	257.03	0.000708	1.36	33.43	18.87	0.27
valle	20	Max WS	A TR_200 2H	39.94	253.67	257.01	255.58	257.09	0.000663	1.33	34.55	19.27	0.26
valle	20	Max WS	A TR_200 3H	40.05	253.67	257.01	255.59	257.09	0.000665	1.34	34.58	19.28	0.26
valle	20	Max WS	A TR_200 4H	39.79	253.67	257.00	255.58	257.08	0.000666	1.33	34.39	19.21	0.26
valle	20	Max WS	A TR_200 6H	39.50	253.67	256.98	255.58	257.06	0.000680	1.34	33.93	19.05	0.26
valle	20	Max WS	A TR_200 8H	39.28	253.67	256.94	255.57	257.02	0.000713	1.36	33.19	18.79	0.27
valle	20	Max WS	A TR_200 12H	38.29	253.67	256.83	255.55	256.92	0.000806	1.40	31.15	18.36	0.28
valle	20	Max WS	A TR_30 1H	24.58	253.67	256.23	255.20	256.31	0.000986	1.29	20.89	16.20	0.30
valle	20	Max WS	A TR_30 2H	32.73	253.67	256.53	255.42	256.62	0.000985	1.42	25.82	17.27	0.31
valle	20	Max WS	A TR_30 3H	34.85	253.67	256.60	255.47	256.70	0.000985	1.45	27.04	17.53	0.31
valle	20	Max WS	A TR_30 4H	34.35	253.67	256.59	255.46	256.68	0.000976	1.44	26.84	17.48	0.31
valle	20	Max WS	A TR_30 6H	30.65	253.67	256.47	255.37	256.56	0.000964	1.38	24.81	17.06	0.30
valle	20	Max WS	A TR_30 8H	26.95	253.67	256.34	255.26	256.42	0.000956	1.32	22.64	16.58	0.30
valle	20	Max WS	A TR_30 12H	21.63	253.67	256.13	255.11	256.20	0.000949	1.22	19.25	15.82	0.29
valle	19	Max WS	A TR_200 1H	39.41	253.49	256.85	255.64	256.99	0.001162	1.62	24.41	16.66	0.34
valle	19	Max WS	A TR_200 2H	39.98	253.49	256.91	255.65	257.04	0.001100	1.60	25.03	16.83	0.33
valle	19	Max WS	A TR_200 3H	39.81	253.49	256.92	255.64	257.04	0.001089	1.59	25.04	16.84	0.33
valle	19	Max WS	A TR_200 4H	39.69	253.49	256.91	255.64	257.03	0.001097	1.60	24.94	16.81	0.33
valle	19	Max WS	A TR_200 6H	39.48	253.49	256.88	255.64	257.01	0.001130	1.61	24.64	16.73	0.33
valle	19	Max WS	A TR_200 8H	39.18	253.49	256.84	255.63	256.97	0.001179	1.62	24.22	16.61	0.34
valle	19	Max WS	A TR_200 12H	38.28	253.49	256.72	255.61	256.86	0.001340	1.67	22.98	16.27	0.36
valle	19	Max WS	A TR_30 1H	24.55	253.49	256.14	255.26	256.25	0.001505	1.45	16.98	14.25	0.36
valle	19	Max WS	A TR_30 2H	32.70	253.49	256.41	255.49	256.55	0.001600	1.65	19.82	15.17	0.38
valle	19	Max WS	A TR_30 3H	34.81	253.49	256.48	255.54	256.62	0.001622	1.70	20.49	15.41	0.39
valle	19	Max WS	A TR_30 4H	34.32	253.49	256.47	255.53	256.61	0.001603	1.69	20.39	15.37	0.38
valle	19	Max WS	A TR_30 6H	30.63	253.49	256.36	255.44	256.49	0.001540	1.59	19.27	14.99	0.37
valle	19	Max WS	A TR_30 8H	26.95	253.49	256.24	255.34	256.35	0.001487	1.50	18.03	14.59	0.36
valle	19	Max WS	A TR_30 12H	21.62	253.49	256.04	255.16	256.14	0.001429	1.36	15.97	13.93	0.35
valle	18.5			Bridge									
valle	18	Max WS	A TR_200 1H	39.26	253.45	256.59	255.66	256.76	0.001781	1.85	21.37	15.89	0.41
valle	18	Max WS	A TR_200 2H	39.98	253.45	256.60	255.67	256.78	0.001825	1.87	21.45	15.91	0.41
valle	18	Max WS	A TR_200 3H	39.76	253.45	256.60	255.67	256.77	0.001801	1.86	21.46	15.91	0.41
valle	18	Max WS	A TR_200 4H	39.69	253.45	256.60	255.67	256.77	0.001797	1.86	21.45	15.91	0.41
valle	18	Max WS	A TR_200 6H	39.47	253.45	256.59	255.66	256.77	0.001788	1.85	21.41	15.90	0.41
valle	18	Max WS	A TR_200 8H	39.18	253.45	256.59	255.65	256.76	0.001780	1.85	21.34	15.88	0.41
valle	18	Max WS	A TR_200 12H	38.28	253.45	256.57	255.64	256.73	0.001760	1.82	21.12	15.81	0.40
valle	18	Max WS	A TR_30 1H	24.54	253.45	256.12	255.28	256.23	0.001644	1.50	16.48	13.99	0.38
valle	18	Max WS	A TR_30 2H	32.70	253.45	256.39	255.52	256.54	0.001737	1.71	19.28	15.11	0.40
valle	18	Max WS	A TR_30 3H	34.80	253.45	256.45	255.57	256.61	0.001757	1.75	19.95	15.42	0.40
valle	18	Max WS	A TR_30 4H	34.30	253.45	256.44	255.55	256.60	0.001735	1.74	19.85	15.38	0.40
valle	18	Max WS	A TR_30 6H	30.62	253.45	256.34	255.46	256.47	0.001670	1.64	18.75	14.86	0.39
valle	18	Max WS	A TR_30 8H	26.94	253.45	256.22	255.35	256.34	0.001618	1.55	17.52	14.37	0.38
valle	18	Max WS	A TR_30 12H	21.62	253.45	256.02	255.17	256.12	0.001565	1.40	15.48	13.51	0.36
valle	17.9			Lat Struct									
valle	17	Max WS	A TR_200 1H	39.21	253.26	256.37	255.48	256.49	0.001689	1.61	25.81	16.29	0.38
valle	17	Max WS	A TR_200 2H	39.69	253.26	256.39	255.49	256.51	0.001678	1.61	26.11	16.37	0.38
valle	17	Max WS	A TR_200 3H	39.73	253.26	256.39	255.49	256.51	0.001670	1.61	26.17	16.39	0.38
valle	17	Max WS	A TR_200 4H	39.65	253.26	256.39	255.49	256.51	0.001664	1.61	26.16	16.39	0.38
valle	17	Max WS	A TR_200 6H	39.45	253.26	256.39	255.48	256.51	0.001656	1.60	26.12	16.37	0.38
valle	17	Max WS	A TR_200 8H	39.16	253.26	256.38	255.47	256.50	0.001651	1.59	26.01	16.34	0.38
valle	17	Max WS	A TR_200 12H	38.27	253.26	256.36	255.46	256.47	0.001640	1.58	25.64	16.25	0.38
valle	17	Max WS	A TR_30 1H	24.47	253.26	255.85	255.08	255.95	0.001753	1.46	17.96	14.10	0.38
valle	17	Max WS	A TR_30 2H	32.60	253.26	256.15	255.33	256.26	0.001722	1.55	22.37	15.37	0.38
valle	17	Max WS	A TR_30 3H	34.69	253.26	256.22	255.38	256.34	0.001702	1.57	23.52	15.68	0.38
valle	17	Max WS	A TR_30 4H	34.20	253.26	256.22	255.37	256.33	0.001677	1.55	23.40	15.65	0.38
valle	17	Max WS	A TR_30 6H	30.53	253.26	256.10	255.28	256.21	0.001649	1.50	21.66	15.17	0.37
valle	17	Max WS	A TR_30 8H	26.89	253.26	255.98	255.18	256.08	0.001637	1.45	19.76	14.64	0.37
valle	17	Max WS	A TR_30 12H	21.58	253.26	255.77	254.95	255.86	0.001625	1.37	16.82	13.76	0.36
valle	16.9			Lat Struct									
valle	16	Max WS	A TR_200 1H	39.10	252.66	256.12	255.19	256.26	0.001351	1.76	26.32	16.19	0.35
valle	16	Max WS	A TR_200 2H	39.54	252.66	256.14	255.20	256.27	0.001339	1.76	26.63	16.31	0.35
valle	16	Max WS	A TR_200 3H	39.65	252.66	256.15	255.20	256.28	0.001337	1.76	26.71	16.33	0.35
valle	16	Max WS	A TR_200 4H	39.63	252.66	256.15	255.20	256.28	0.001334	1.76	26.71	16.33	0.35
valle	16	Max WS	A TR_200 6H	39.43	252.66	256.15	255.19	256.28	0.001323	1.75	26.70	16.33	0.35
valle	16	Max WS	A TR_200 8H	39.15	252.66	256.14	255.19	256.27	0.001316	1.75	26.61	16.30	0.35
valle	16	Max WS	A TR_200 12H	38.27	252.66	256.12	255.17	256.25	0.001301	1.73	26.27	16.18	0.34
valle	16	Max WS	A TR_30 1H	24.38	252.66	255.59	254.76	255.70	0.001403	1.54	18.31	13.98	0.34
valle	16	Max WS	A TR_30 2H	32.47	252.66	255.90	255.02	256.02	0.001374	1.67	22.78	15.11	0.35
valle	16	Max WS	A TR_30 3H	34.54	252.66	255.98	255.08	256.10	0.001353	1.69	23.98	15.46	0.35
valle	16	Max WS	A TR_30 4H	34.07	252.66	255.97	255.06	256.09	0.001320	1.67	23.95	15.45	0.34
valle	16	Max WS	A TR_30 6H	30.42	252.66	255.87	254.97	255.98	0.001275	1.59	22.31	15.00	0.34

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)	
valle	16	Max WS	A TR_30 8H	26.77	252.66	255.74	254.86	255.84	0.001249	1.52	20.47	14.54	0.33
valle	16	Max WS	A TR_30 12H	21.52	252.66	255.54	254.62	255.63	0.001223	1.41	17.56	13.78	0.32
valle	15.95			Lat Struct									
valle	15.9			Lat Struct									
valle	15	Max WS	A TR_200 1H	38.87	252.51	255.87	254.91	256.01	0.001429	1.78	25.55	15.67	0.36
valle	15	Max WS	A TR_200 2H	39.49	252.51	255.89	254.92	256.03	0.001426	1.79	25.87	15.78	0.36
valle	15	Max WS	A TR_200 3H	39.64	252.51	255.90	254.92	256.04	0.001425	1.79	25.96	15.81	0.36
valle	15	Max WS	A TR_200 4H	39.53	252.51	255.90	254.92	256.04	0.001415	1.79	25.97	15.82	0.36
valle	15	Max WS	A TR_200 6H	39.37	252.51	255.90	254.92	256.04	0.001400	1.78	26.00	15.82	0.36
valle	15	Max WS	A TR_200 8H	39.14	252.51	255.90	254.92	256.03	0.001392	1.77	25.94	15.80	0.36
valle	15	Max WS	A TR_200 12H	38.26	252.51	255.88	254.89	256.01	0.001367	1.75	25.68	15.71	0.35
valle	15	Max WS	A TR_30 1H	24.28	252.51	255.33	254.56	255.44	0.001482	1.54	17.82	13.17	0.35
valle	15	Max WS	A TR_30 2H	32.31	252.51	255.64	254.76	255.77	0.001458	1.69	22.09	14.47	0.36
valle	15	Max WS	A TR_30 3H	34.18	252.51	255.73	254.80	255.85	0.001405	1.70	23.35	14.86	0.35
valle	15	Max WS	A TR_30 4H	33.75	252.51	255.73	254.79	255.86	0.001355	1.67	23.44	14.89	0.35
valle	15	Max WS	A TR_30 6H	30.21	252.51	255.64	254.71	255.75	0.001281	1.58	22.05	14.46	0.34
valle	15	Max WS	A TR_30 8H	26.57	252.51	255.52	254.62	255.62	0.001223	1.49	20.41	13.95	0.32
valle	15	Max WS	A TR_30 12H	21.39	252.51	255.33	254.47	255.41	0.001160	1.36	17.77	13.16	0.31
valle	14.96			Lat Struct									
valle	14.95			Lat Struct									
valle	14	Max WS	A TR_200 1H	38.58	252.40	255.67	254.58	255.78	0.001098	1.57	27.92	16.26	0.32
valle	14	Max WS	A TR_200 2H	39.38	252.40	255.69	254.60	255.81	0.001101	1.58	28.31	16.35	0.33
valle	14	Max WS	A TR_200 3H	39.40	252.40	255.70	254.60	255.81	0.001093	1.58	28.39	16.38	0.32
valle	14	Max WS	A TR_200 4H	39.31	252.40	255.70	254.59	255.81	0.001081	1.57	28.46	16.40	0.32
valle	14	Max WS	A TR_200 6H	39.36	252.40	255.71	254.60	255.82	0.001080	1.57	28.50	16.42	0.32
valle	14	Max WS	A TR_200 8H	39.14	252.40	255.70	254.59	255.81	0.001071	1.56	28.46	16.41	0.32
valle	14	Max WS	A TR_200 12H	38.26	252.40	255.69	254.57	255.80	0.001044	1.54	28.27	16.34	0.32
valle	14	Max WS	A TR_30 1H	24.20	252.40	255.12	254.25	255.20	0.001215	1.38	19.41	14.42	0.33
valle	14	Max WS	A TR_30 2H	32.14	252.40	255.44	254.44	255.54	0.001143	1.49	24.21	15.51	0.33
valle	14	Max WS	A TR_30 3H	33.94	252.40	255.54	254.48	255.64	0.001069	1.49	25.75	15.82	0.32
valle	14	Max WS	A TR_30 4H	33.39	252.40	255.55	254.47	255.65	0.001006	1.45	26.01	15.88	0.31
valle	14	Max WS	A TR_30 6H	29.95	252.40	255.47	254.39	255.55	0.000936	1.37	24.71	15.61	0.30
valle	14	Max WS	A TR_30 8H	26.35	252.40	255.36	254.30	255.44	0.000881	1.28	23.07	15.27	0.28
valle	14	Max WS	A TR_30 12H	21.27	252.40	255.18	254.17	255.24	0.000827	1.17	20.30	14.67	0.27
valle	13.95			Lat Struct									
valle	13.9			Lat Struct									
valle	13	Max WS	A TR_200 1H	38.36	252.14	255.54	254.53	255.67	0.001294	1.84	26.24	16.14	0.35
valle	13	Max WS	A TR_200 2H	39.27	252.14	255.55	254.55	255.69	0.001313	1.86	26.56	16.19	0.35
valle	13	Max WS	A TR_200 3H	39.25	252.14	255.56	254.55	255.70	0.001297	1.85	26.67	16.21	0.35
valle	13	Max WS	A TR_200 4H	39.25	252.14	255.57	254.55	255.70	0.001286	1.84	26.75	16.23	0.35
valle	13	Max WS	A TR_200 6H	39.28	252.14	255.57	254.55	255.70	0.001282	1.84	26.80	16.23	0.34
valle	13	Max WS	A TR_200 8H	39.11	252.14	255.57	254.55	255.70	0.001273	1.83	26.78	16.23	0.34
valle	13	Max WS	A TR_200 12H	38.26	252.14	255.56	254.53	255.69	0.001233	1.80	26.66	16.21	0.34
valle	13	Max WS	A TR_30 1H	24.12	252.14	254.98	254.14	255.09	0.001340	1.62	18.07	13.22	0.34
valle	13	Max WS	A TR_30 2H	32.01	252.14	255.30	254.37	255.42	0.001327	1.76	22.53	14.73	0.34
valle	13	Max WS	A TR_30 3H	33.71	252.14	255.40	254.42	255.52	0.001236	1.74	24.16	15.44	0.34
valle	13	Max WS	A TR_30 4H	33.11	252.14	255.43	254.40	255.54	0.001143	1.68	24.57	15.61	0.32
valle	13	Max WS	A TR_30 6H	29.72	252.14	255.36	254.31	255.46	0.001031	1.57	23.48	15.15	0.31
valle	13	Max WS	A TR_30 8H	26.15	252.14	255.26	254.20	255.35	0.000936	1.46	22.05	14.52	0.29
valle	13	Max WS	A TR_30 12H	21.16	252.14	255.09	254.00	255.16	0.000834	1.32	19.60	13.71	0.27
valle	12.95			Lat Struct									
valle	12.9			Lat Struct									
valle	12	Max WS	A TR_200 1H	37.53	251.88	255.42	254.27	255.52	0.000980	1.61	29.26	17.20	0.30
valle	12	Max WS	A TR_200 2H	38.44	251.88	255.45	254.29	255.55	0.000993	1.63	29.65	17.30	0.30
valle	12	Max WS	A TR_200 3H	38.21	251.88	255.46	254.29	255.56	0.000966	1.61	29.82	17.34	0.30
valle	12	Max WS	A TR_200 4H	38.15	251.88	255.46	254.28	255.56	0.000953	1.60	29.95	17.37	0.30
valle	12	Max WS	A TR_200 6H	38.18	251.88	255.47	254.29	255.57	0.000949	1.60	30.02	17.39	0.30
valle	12	Max WS	A TR_200 8H	38.05	251.88	255.47	254.28	255.57	0.000943	1.59	30.00	17.39	0.29
valle	12	Max WS	A TR_200 12H	37.30	251.88	255.46	254.27	255.56	0.000912	1.56	29.94	17.37	0.29
valle	12	Max WS	A TR_30 1H	24.07	251.88	254.86	253.92	254.94	0.001016	1.42	20.50	14.05	0.29
valle	12	Max WS	A TR_30 2H	31.80	251.88	255.18	254.13	255.28	0.001014	1.54	25.30	15.59	0.30
valle	12	Max WS	A TR_30 3H	33.32	251.88	255.30	254.16	255.39	0.000934	1.52	27.18	16.54	0.29
valle	12	Max WS	A TR_30 4H	32.78	251.88	255.34	254.15	255.42	0.000859	1.47	27.76	16.82	0.28
valle	12	Max WS	A TR_30 6H	29.53	251.88	255.28	254.07	255.35	0.000760	1.37	26.78	16.30	0.26
valle	12	Max WS	A TR_30 8H	25.98	251.88	255.19	253.98	255.25	0.000671	1.26	25.38	15.63	0.24
valle	12	Max WS	A TR_30 12H	21.09	251.88	255.03	253.82	255.08	0.000578	1.12	22.90	14.70	0.22
valle	11.95			Lat Struct									
valle	11.9			Lat Struct									
valle	11	Max WS	A TR_200 1H	30.95	251.69	255.37	254.07	255.44	0.000710	1.34	28.77	17.35	0.25
valle	11	Max WS	A TR_200 2H	27.46	251.69	255.45	253.97	255.50	0.000495	1.13	30.06	17.48	0.21
valle	11	Max WS	A TR_200 3H	24.87	251.69	255.48	253.90	255.52	0.000386	1.01	30.62	17.53	0.19
valle	11	Max WS	A TR_200 4H	23.11	251.69	255.50	253.84	255.53	0.000322	0.93	30.99	17.57	0.17
valle	11	Max WS	A TR_200 6H	22.30	251.69	255.51	253.80	255.54	0.000295	0.89	31.16	17.59	0.16
valle	11	Max WS	A TR_200 8H	22.26	251.69	255.51	253.80	255.54	0.000295	0.89	31.14	17.58	0.16
valle	11	Max WS	A TR_200 12H	22.25	251.69	255.50	253.80	255.53	0.000299	0.89	30.99	17.57	0.16
valle	11	Max WS	A TR_30 1H	23.98	251.69	254.71	253.86	254.81	0.001329	1.54	18.58	13.80	0.33

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)	
valle	11	Max WS	A TR_30 2H	30.73	251.69	255.04	254.07	255.15	0.001170	1.58	23.42	15.06	0.31
valle	11	Max WS	A TR_30 3H	32.65	251.69	255.17	254.12	255.27	0.001072	1.57	25.44	15.93	0.30
valle	11	Max WS	A TR_30 4H	32.34	251.69	255.22	254.11	255.31	0.000982	1.52	26.19	16.35	0.29
valle	11	Max WS	A TR_30 6H	29.26	251.69	255.18	254.02	255.26	0.000859	1.40	25.47	15.94	0.27
valle	11	Max WS	A TR_30 8H	25.78	251.69	255.10	253.92	255.17	0.000745	1.28	24.31	15.31	0.25
valle	11	Max WS	A TR_30 12H	20.98	251.69	254.95	253.75	255.00	0.000642	1.15	22.03	14.67	0.23
valle	10.95			Lat Struct									
valle	10.9			Lat Struct									
valle	10	Max WS	A TR_200 1H	30.02	251.53	255.32	253.71	255.38	0.000512	1.19	31.04	17.55	0.22
valle	10	Max WS	A TR_200 2H	24.13	251.53	255.43	253.50	255.47	0.000283	0.91	33.07	18.43	0.16
valle	10	Max WS	A TR_200 3H	19.74	251.53	255.48	253.31	255.50	0.000180	0.73	33.97	19.20	0.13
valle	10	Max WS	A TR_200 4H	16.49	251.53	255.51	253.17	255.53	0.000121	0.60	34.54	19.59	0.11
valle	10	Max WS	A TR_200 6H	14.91	251.53	255.52	253.10	255.54	0.000104	0.56	35.11	24.48	0.10
valle	10	Max WS	A TR_200 8H	14.97	251.53	255.52	253.10	255.54	0.000106	0.56	35.07	24.45	0.10
valle	10	Max WS	A TR_200 12H	15.66	251.53	255.51	253.13	255.53	0.000109	0.57	34.55	19.59	0.10
valle	10	Max WS	A TR_30 1H	23.90	251.53	254.57	253.49	254.67	0.001154	1.48	19.14	14.42	0.31
valle	10	Max WS	A TR_30 2H	30.45	251.53	254.93	253.73	255.03	0.000968	1.49	24.59	15.67	0.29
valle	10	Max WS	A TR_30 3H	32.15	251.53	255.08	253.78	255.16	0.000849	1.45	26.92	16.28	0.28
valle	10	Max WS	A TR_30 4H	32.02	251.53	255.13	253.77	255.21	0.000772	1.40	27.84	16.57	0.26
valle	10	Max WS	A TR_30 6H	29.04	251.53	255.10	253.68	255.17	0.000669	1.29	27.30	16.40	0.25
valle	10	Max WS	A TR_30 8H	25.62	251.53	255.04	253.55	255.09	0.000576	1.18	26.25	16.06	0.23
valle	10	Max WS	A TR_30 12H	20.91	251.53	254.89	253.37	254.94	0.000487	1.05	24.00	15.54	0.21
valle	9.95			Lat Struct									
valle	9.9			Lat Struct									
valle	09	Max WS	A TR_200 1H	29.95	251.50	255.27	253.60	255.32	0.000482	1.11	30.99	16.32	0.21
valle	09	Max WS	A TR_200 2H	24.10	251.50	255.41	253.39	255.44	0.000257	0.83	33.27	16.77	0.16
valle	09	Max WS	A TR_200 3H	19.74	251.50	255.46	253.22	255.48	0.000159	0.66	34.26	17.07	0.12
valle	09	Max WS	A TR_200 4H	16.52	251.50	255.50	253.08	255.51	0.000107	0.55	34.87	17.32	0.10
valle	09	Max WS	A TR_200 6H	14.89	251.50	255.52	253.00	255.53	0.000085	0.49	35.14	17.44	0.09
valle	09	Max WS	A TR_200 8H	14.91	251.50	255.51	253.00	255.52	0.000085	0.49	35.12	17.43	0.09
valle	09	Max WS	A TR_200 12H	15.63	251.50	255.50	253.03	255.51	0.000095	0.52	34.90	17.33	0.10
valle	09	Max WS	A TR_30 1H	23.79	251.50	254.44	253.38	254.53	0.001236	1.40	18.59	13.59	0.32
valle	09	Max WS	A TR_30 2H	30.23	251.50	254.82	253.60	254.92	0.000984	1.41	24.08	14.86	0.29
valle	09	Max WS	A TR_30 3H	31.77	251.50	254.99	253.65	255.07	0.000832	1.35	26.53	15.40	0.27
valle	09	Max WS	A TR_30 4H	31.76	251.50	255.05	253.65	255.13	0.000751	1.31	27.54	15.61	0.26
valle	09	Max WS	A TR_30 6H	28.84	251.50	255.03	253.56	255.10	0.000639	1.20	27.21	15.54	0.24
valle	09	Max WS	A TR_30 8H	25.51	251.50	254.98	253.43	255.03	0.000544	1.09	26.39	15.37	0.22
valle	09	Max WS	A TR_30 12H	20.85	251.50	254.85	253.26	254.89	0.000452	0.96	24.38	14.93	0.20
valle	8.95			Lat Struct									
valle	8.9			Lat Struct									
valle	08	Max WS	A TR_200 1H	29.91	251.47	255.22	253.54	255.28	0.000474	1.17	31.00	16.28	0.21
valle	08	Max WS	A TR_200 2H	24.03	251.47	255.38	253.30	255.41	0.000248	0.87	33.66	17.24	0.15
valle	08	Max WS	A TR_200 3H	19.74	251.47	255.45	253.12	255.47	0.000154	0.70	34.84	17.78	0.12
valle	08	Max WS	A TR_200 4H	16.53	251.47	255.49	252.97	255.50	0.000103	0.58	35.57	18.27	0.10
valle	08	Max WS	A TR_200 6H	14.88	251.47	255.51	252.90	255.52	0.000082	0.51	35.89	18.48	0.09
valle	08	Max WS	A TR_200 8H	14.92	251.47	255.51	252.90	255.52	0.000083	0.52	35.85	18.46	0.09
valle	08	Max WS	A TR_200 12H	15.63	251.47	255.49	252.94	255.51	0.000092	0.54	35.61	18.29	0.09
valle	08	Max WS	A TR_30 1H	23.65	251.47	254.31	253.28	254.42	0.001330	1.55	17.61	13.07	0.33
valle	08	Max WS	A TR_30 2H	30.03	251.47	254.73	253.54	254.83	0.001020	1.52	23.34	14.53	0.30
valle	08	Max WS	A TR_30 3H	31.50	251.47	254.91	253.61	255.00	0.000841	1.45	26.01	15.17	0.28
valle	08	Max WS	A TR_30 4H	31.54	251.47	254.98	253.61	255.06	0.000753	1.39	27.14	15.42	0.26
valle	08	Max WS	A TR_30 6H	28.67	251.47	254.97	253.49	255.04	0.000630	1.27	27.01	15.39	0.24
valle	08	Max WS	A TR_30 8H	25.37	251.47	254.93	253.34	254.98	0.000528	1.15	26.34	15.24	0.22
valle	08	Max WS	A TR_30 12H	20.80	251.47	254.80	253.17	254.85	0.000431	1.01	24.49	14.81	0.20
valle	7.95			Lat Struct									
valle	7.9			Lat Struct									
valle	07	Max WS	A TR_200 1H	29.88	251.36	255.18	253.49	255.23	0.000465	1.14	32.40	18.53	0.21
valle	07	Max WS	A TR_200 2H	24.03	251.36	255.36	253.24	255.39	0.000236	0.84	35.95	20.53	0.15
valle	07	Max WS	A TR_200 3H	19.73	251.36	255.44	253.07	255.45	0.000146	0.67	37.59	22.18	0.12
valle	07	Max WS	A TR_200 4H	16.51	251.36	255.48	252.91	255.49	0.000097	0.55	38.61	23.10	0.10
valle	07	Max WS	A TR_200 6H	14.87	251.36	255.50	252.83	255.51	0.000077	0.49	39.06	23.29	0.08
valle	07	Max WS	A TR_200 8H	14.91	251.36	255.50	252.83	255.51	0.000077	0.49	39.02	23.28	0.08
valle	07	Max WS	A TR_200 12H	15.62	251.36	255.48	252.87	255.50	0.000086	0.52	38.69	23.16	0.09
valle	07	Max WS	A TR_30 1H	23.41	251.36	254.15	253.22	254.27	0.001600	1.62	16.67	13.24	0.36
valle	07	Max WS	A TR_30 2H	29.76	251.36	254.62	253.49	254.71	0.001073	1.51	23.25	14.88	0.30
valle	07	Max WS	A TR_30 3H	31.23	251.36	254.82	253.56	254.90	0.000843	1.41	26.36	15.59	0.27
valle	07	Max WS	A TR_30 4H	31.30	251.36	254.90	253.56	254.98	0.000747	1.36	27.69	16.10	0.26
valle	07	Max WS	A TR_30 6H	28.45	251.36	254.91	253.43	254.97	0.000612	1.23	27.77	16.15	0.23
valle	07	Max WS	A TR_30 8H	25.22	251.36	254.88	253.29	254.93	0.000504	1.11	27.25	15.87	0.21
valle	07	Max WS	A TR_30 12H	20.78	251.36	254.76	253.11	254.80	0.000409	0.97	25.48	15.39	0.19
valle	6.95			Lat Struct									
valle	6.9			Lat Struct									
valle	06	Max WS	A TR_200 1H	28.74	251.34	255.15	253.26	255.19	0.000358	1.04	34.32	19.10	0.18
valle	06	Max WS	A TR_200 2H	13.13	251.34	255.38	252.58	255.38	0.000054	0.42	38.76	19.51	0.07
valle	06	Max WS	A TR_200 3H	1.36	251.34	255.46	251.66	255.46	0.000001	0.04	40.35	19.66	0.01
valle	06	Max WS	A TR_200 4H	-6.86	251.34	255.49	252.19	255.50	0.000013	-0.21	41.07	19.72	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)	
valle	06	Max WS	A TR_200 6H	-10.68	251.34	255.51	252.44	255.51	0.000030	-0.32	41.32	19.74	0.05
valle	06	Max WS	A TR_200 8H	-10.43	251.34	255.50	252.42	255.51	0.000029	-0.31	41.29	19.74	0.05
valle	06	Max WS	A TR_200 12H	-8.05	251.34	255.49	252.27	255.50	0.000017	-0.24	41.09	19.72	0.04
valle	06	Max WS	A TR_30 1H	23.10	251.34	253.99	253.04	254.11	0.001497	1.58	16.52	12.58	0.35
valle	06	Max WS	A TR_30 2H	29.54	251.34	254.52	253.29	254.61	0.000944	1.46	23.78	14.97	0.29
valle	06	Max WS	A TR_30 3H	31.00	251.34	254.75	253.37	254.83	0.000725	1.35	27.28	15.87	0.26
valle	06	Max WS	A TR_30 4H	31.12	251.34	254.84	253.37	254.91	0.000640	1.30	28.79	16.55	0.24
valle	06	Max WS	A TR_30 6H	28.32	251.34	254.86	253.24	254.92	0.000517	1.17	29.09	16.68	0.22
valle	06	Max WS	A TR_30 8H	25.13	251.34	254.84	253.11	254.88	0.000420	1.05	28.70	16.51	0.20
valle	06	Max WS	A TR_30 12H	20.76	251.34	254.73	252.95	254.77	0.000333	0.91	27.01	15.75	0.17
valle	5.95			Lat Struct									
valle	5.9			Lat Struct									
valle	05	Max WS	A TR_200 1H	26.99	251.26	255.12	253.12	255.16	0.000286	0.96	34.91	17.70	0.17
valle	05	Max WS	A TR_200 2H	-7.02	251.26	255.38	252.14	255.39	0.000014	-0.22	39.80	19.71	0.04
valle	05	Max WS	A TR_200 3H	-26.44	251.26	255.42	253.09	255.45	0.000191	-0.83	40.50	19.71	0.14
valle	05	Max WS	A TR_200 4H	-35.77	251.26	255.43	253.44	255.48	0.000347	-1.12	40.65	19.71	0.19
valle	05	Max WS	A TR_200 6H	-38.51	251.26	255.43	253.51	255.49	0.000401	-1.20	40.67	19.71	0.20
valle	05	Max WS	A TR_200 8H	-40.09	251.26	255.43	253.55	255.49	0.000436	-1.25	40.65	19.71	0.21
valle	05	Max WS	A TR_200 12H	-38.36	251.26	255.43	253.51	255.48	0.000400	-1.20	40.60	19.71	0.20
valle	05	Max WS	A TR_30 1H	22.69	251.26	253.81	252.93	253.94	0.001683	1.67	15.51	11.89	0.37
valle	05	Max WS	A TR_30 2H	29.20	251.26	254.42	253.22	254.51	0.000926	1.47	23.72	14.72	0.29
valle	05	Max WS	A TR_30 3H	30.86	251.26	254.67	253.29	254.75	0.000691	1.35	27.56	15.45	0.25
valle	05	Max WS	A TR_30 4H	30.99	251.26	254.78	253.30	254.85	0.000597	1.29	29.17	15.74	0.24
valle	05	Max WS	A TR_30 6H	28.14	251.26	254.81	253.17	254.86	0.000470	1.15	29.67	15.83	0.21
valle	05	Max WS	A TR_30 8H	25.07	251.26	254.80	253.03	254.84	0.000380	1.03	29.46	15.79	0.19
valle	05	Max WS	A TR_30 12H	20.72	251.26	254.70	252.87	254.73	0.000300	0.90	27.95	15.53	0.17
valle	4.95			Lat Struct									
valle	4.9			Lat Struct									
valle	04	Max WS	A TR_200 1H	26.99	251.51	255.10	252.88	255.13	0.000220	0.82	36.33	17.79	0.15
valle	04	Max WS	A TR_200 2H	-9.19	251.51	255.38		255.39	0.000018	-0.25	41.63	20.51	0.04
valle	04	Max WS	A TR_200 3H	-31.72	251.51	255.43		255.46	0.000206	-0.85	42.48	20.75	0.15
valle	04	Max WS	A TR_200 4H	-43.59	251.51	255.44		255.50	0.000382	-1.16	42.81	20.84	0.20
valle	04	Max WS	A TR_200 6H	-48.65	251.51	255.45		255.53	0.000473	-1.29	42.93	20.88	0.23
valle	04	Max WS	A TR_200 8H	-48.35	251.51	255.45		255.52	0.000467	-1.28	42.91	20.87	0.22
valle	04	Max WS	A TR_200 12H	-44.89	251.51	255.44		255.51	0.000406	-1.20	42.80	20.84	0.21
valle	04	Max WS	A TR_30 1H	22.33	251.51	253.67	252.74	253.76	0.001511	1.39	16.25	12.58	0.36
valle	04	Max WS	A TR_30 2H	29.07	251.51	254.35	252.94	254.42	0.000725	1.23	24.32	14.82	0.26
valle	04	Max WS	A TR_30 3H	30.78	251.51	254.62	252.99	254.68	0.000557	1.16	28.29	15.71	0.23
valle	04	Max WS	A TR_30 4H	30.90	251.51	254.73	252.99	254.79	0.000477	1.10	30.05	16.08	0.22
valle	04	Max WS	A TR_30 6H	28.10	251.51	254.77	252.92	254.82	0.000371	0.99	30.75	16.22	0.19
valle	04	Max WS	A TR_30 8H	25.05	251.51	254.77	252.83	254.80	0.000297	0.88	30.65	16.20	0.17
valle	04	Max WS	A TR_30 12H	20.70	251.51	254.68	252.69	254.70	0.000231	0.76	29.22	15.90	0.15
valle	3.5			Bridge									
valle	03	Max WS	A TR_200 1H	26.99	251.49	255.08	252.87	255.11	0.000222	0.82	36.41	18.50	0.15
valle	03	Max WS	A TR_200 2H	-9.38	251.49	255.39	252.23	255.40	0.000018	-0.25	42.54	20.75	0.04
valle	03	Max WS	A TR_200 3H	-31.90	251.49	255.46	253.01	255.49	0.000194	-0.83	43.91	21.27	0.14
valle	03	Max WS	A TR_200 4H	-43.88	251.49	255.48	253.30	255.54	0.000355	-1.13	44.44	21.38	0.20
valle	03	Max WS	A TR_200 6H	-48.78	251.49	255.49	253.40	255.57	0.000434	-1.25	44.66	21.42	0.22
valle	03	Max WS	A TR_200 8H	-48.40	251.49	255.49	253.39	255.56	0.000428	-1.25	44.63	21.42	0.22
valle	03	Max WS	A TR_200 12H	-44.92	251.49	255.48	253.32	255.55	0.000372	-1.16	44.45	21.38	0.20
valle	03	Max WS	A TR_30 1H	22.33	251.49	253.66	252.73	253.76	0.001476	1.38	16.35	12.66	0.35
valle	03	Max WS	A TR_30 2H	28.94	251.49	254.29	252.93	254.36	0.000773	1.25	23.74	14.85	0.27
valle	03	Max WS	A TR_30 3H	30.69	251.49	254.56	252.97	254.63	0.000588	1.18	27.61	15.83	0.24
valle	03	Max WS	A TR_30 4H	30.78	251.49	254.68	252.98	254.74	0.000495	1.12	29.55	16.25	0.22
valle	03	Max WS	A TR_30 6H	28.00	251.49	254.74	252.90	254.79	0.000379	0.99	30.44	16.49	0.19
valle	03	Max WS	A TR_30 8H	24.97	251.49	254.74	252.81	254.78	0.000300	0.88	30.47	16.50	0.17
valle	03	Max WS	A TR_30 12H	20.69	251.49	254.66	252.68	254.68	0.000232	0.76	29.12	16.16	0.15
valle	2.95			Lat Struct									
valle	2.9			Lat Struct									
valle	02	Max WS	A TR_200 1H	26.99	249.79	255.08	252.06	255.10	0.000100	0.64	52.60	20.93	0.10
valle	02	Max WS	A TR_200 2H	-16.23	249.79	255.39	251.64	255.39	0.000026	-0.34	59.30	22.05	0.05
valle	02	Max WS	A TR_200 3H	-44.06	249.79	255.46	252.61	255.49	0.000182	-0.91	60.74	22.16	0.13
valle	02	Max WS	A TR_200 4H	-58.70	249.79	255.48	252.91	255.54	0.000314	-1.20	61.37	22.21	0.18
valle	02	Max WS	A TR_200 6H	-64.75	249.79	255.50	253.03	255.56	0.000378	-1.31	61.64	22.24	0.19
valle	02	Max WS	A TR_200 8H	-64.21	249.79	255.49	253.02	255.56	0.000372	-1.30	61.61	22.23	0.19
valle	02	Max WS	A TR_200 12H	-59.80	249.79	255.48	252.93	255.54	0.000326	-1.22	61.40	22.22	0.18
valle	02	Max WS	A TR_30 1H	22.33	249.79	253.66	251.88	253.70	0.000388	0.96	27.35	15.12	0.18
valle	02	Max WS	A TR_30 2H	28.95	249.79	254.30	252.13	254.33	0.000275	0.92	37.68	17.44	0.16
valle	02	Max WS	A TR_30 3H	30.71	249.79	254.57	252.20	254.60	0.000222	0.87	42.67	18.41	0.14
valle	02	Max WS	A TR_30 4H	30.81	249.79	254.69	252.21	254.72	0.000195	0.83	44.90	18.82	0.13
valle	02	Max WS	A TR_30 6H	28.04	249.79	254.75	252.10	254.77	0.000152	0.74	45.88	19.02	0.12
valle	02	Max WS	A TR_30 8H	24.98	249.79	254.75	251.98	254.76	0.000121	0.66	45.88	19.02	0.11
valle	02	Max WS	A TR_30 12H	20.69	249.79	254.66	251.82	254.67	0.000091	0.57	44.29	18.70	0.09
valle	01	Max WS	A TR_200 1H	26.98	249.55	255.09	250.75	255.09	0.000013	0.26	113.69	33.36	0.04
valle	01	Max WS	A TR_200 2H	-19.04	249.55	255.39	250.60	255.39	0.000005	-0.17	123.99	34.25	0.02
valle	01	Max WS	A TR_200 3H	-49.12	249.55	255.48	251.12	255.49	0.000031	-0.43	126.96	34.49	0.06
valle	01	Max WS	A TR_200 4H	-65.00	249.55	255.53	251.34	255.54	0.000053	-0.56	128.59	34.63	0.08
valle	01	Max WS	A TR_200 6H	-71.64	249.55	255.55	251.43	255.56	0.000063	-0.62	129.31	34.69	0.09
valle	01	Max WS	A TR_200 8H	-71.02	249.55	255.55	251.41	255.56	0.000062	-0.61	129.24	34.69	0.09

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)	
valle	01	Max WS	A TR_200 12H	-66.16	249.55	255.53	251.35	255.54	0.000054	-0.57	128.69	34.64	0.08
valle	01	Max WS	A TR_30 1H	22.34	249.55	253.68	250.67	253.68	0.000036	0.34	69.44	29.28	0.06
valle	01	Max WS	A TR_30 2H	28.96	249.55	254.31	250.79	254.32	0.000030	0.35	88.60	31.12	0.06
valle	01	Max WS	A TR_30 3H	30.71	249.55	254.59	250.83	254.59	0.000026	0.34	97.31	31.91	0.05
valle	01	Max WS	A TR_30 4H	30.83	249.55	254.70	250.83	254.71	0.000023	0.33	101.11	32.26	0.05
valle	01	Max WS	A TR_30 6H	28.04	249.55	254.75	250.78	254.76	0.000019	0.30	102.73	32.40	0.05
valle	01	Max WS	A TR_30 8H	25.00	249.55	254.75	250.72	254.76	0.000015	0.27	102.66	32.39	0.04
valle	01	Max WS	A TR_30 12H	20.68	249.55	254.67	250.64	254.67	0.000011	0.23	99.85	32.14	0.04

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)
Doccia	37.95	Max WS	A TR_200 1H	19.98	0.00	19.91	0.00					268.59	268.69	268.44	267.94	267.78
Doccia	37.95	Max WS	A TR_200 2H	25.59	0.00	25.53	0.00					268.59	268.95	268.66	268.20	268.01
Doccia	37.95	Max WS	A TR_200 3H	25.79	0.00	25.74	0.00					268.59	268.96	268.67	268.21	268.02
Doccia	37.95	Max WS	A TR_200 4H	24.39	0.00	24.36	0.00					268.59	268.90	268.62	268.15	267.97
Doccia	37.95	Max WS	A TR_200 6H	21.09	0.00	21.07	0.00					268.59	268.74	268.48	268.00	267.83
Doccia	37.95	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					268.59	268.60	268.36	267.85	267.70
Doccia	37.95	Max WS	A TR_200 12H	14.70	0.00	14.70	0.00					268.59	268.39	268.17	267.62	267.49
Doccia	37.95	Max WS	A TR_30 1H	9.30	0.00	9.29	0.00					268.59	268.02	267.84	267.18	267.08
Doccia	37.95	Max WS	A TR_30 2H	12.08	0.00	12.06	0.00					268.59	268.22	268.02	267.42	267.31
Doccia	37.95	Max WS	A TR_30 3H	12.49	0.00	12.48	0.00					268.59	268.25	268.04	267.45	267.34
Doccia	37.95	Max WS	A TR_30 4H	12.00	0.00	12.00	0.00					268.59	268.21	268.01	267.42	267.30
Doccia	37.95	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					268.59	268.11	267.92	267.29	267.19
Doccia	37.95	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					268.59	268.01	267.83	267.17	267.07
Doccia	37.95	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					268.59	267.86	267.70	266.99	266.90
Doccia	36.96	Max WS	A TR_200 1H	19.91	0.00	19.89	0.00					267.92	267.93	267.78	267.47	267.32
Doccia	36.96	Max WS	A TR_200 2H	25.53	0.00	25.54	0.00					267.92	268.20	268.01	267.72	267.55
Doccia	36.96	Max WS	A TR_200 3H	25.74	0.00	25.74	0.00					267.92	268.21	268.02	267.73	267.55
Doccia	36.96	Max WS	A TR_200 4H	24.36	0.00	24.36	0.00					267.92	268.15	267.97	267.68	267.51
Doccia	36.96	Max WS	A TR_200 6H	21.07	0.00	21.06	0.00					267.92	268.00	267.83	267.53	267.39
Doccia	36.96	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					267.92	267.85	267.70	267.38	267.25
Doccia	36.96	Max WS	A TR_200 12H	14.70	0.00	14.70	0.00					267.92	267.62	267.49	267.15	267.04
Doccia	36.96	Max WS	A TR_30 1H	9.29	0.00	9.28	0.00					267.92	267.18	267.08	266.73	266.65
Doccia	36.96	Max WS	A TR_30 2H	12.06	0.00	12.05	0.00					267.92	267.42	267.31	266.96	266.86
Doccia	36.96	Max WS	A TR_30 3H	12.48	0.00	12.47	0.00					267.92	267.45	267.34	266.99	266.89
Doccia	36.96	Max WS	A TR_30 4H	12.00	0.00	11.99	0.00					267.92	267.42	267.30	266.96	266.86
Doccia	36.96	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					267.92	267.29	267.19	266.84	266.75
Doccia	36.96	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					267.92	267.17	267.07	266.72	266.64
Doccia	36.96	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					267.92	266.99	266.90	266.55	266.48
Doccia	36.95	Max WS	A TR_200 1H	19.91	0.00	19.89	0.00					267.84	267.93	267.78	267.47	267.32
Doccia	36.95	Max WS	A TR_200 2H	25.53	0.00	25.54	0.00					267.84	268.20	268.01	267.72	267.55
Doccia	36.95	Max WS	A TR_200 3H	25.74	0.00	25.74	0.00					267.84	268.21	268.02	267.73	267.55
Doccia	36.95	Max WS	A TR_200 4H	24.36	0.00	24.36	0.00					267.84	268.15	267.97	267.68	267.51
Doccia	36.95	Max WS	A TR_200 6H	21.07	0.00	21.06	0.00					267.84	268.00	267.83	267.53	267.39
Doccia	36.95	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					267.84	267.85	267.70	267.38	267.25
Doccia	36.95	Max WS	A TR_200 12H	14.70	0.00	14.70	0.00					267.84	267.62	267.49	267.15	267.04
Doccia	36.95	Max WS	A TR_30 1H	9.29	0.00	9.28	0.00					267.84	267.18	267.08	266.73	266.65
Doccia	36.95	Max WS	A TR_30 2H	12.06	0.00	12.05	0.00					267.84	267.42	267.31	266.96	266.86
Doccia	36.95	Max WS	A TR_30 3H	12.48	0.00	12.47	0.00					267.84	267.45	267.34	266.99	266.89
Doccia	36.95	Max WS	A TR_30 4H	12.00	0.00	11.99	0.00					267.84	267.42	267.30	266.96	266.86
Doccia	36.95	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					267.84	267.29	267.19	266.84	266.75
Doccia	36.95	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					267.84	267.17	267.07	266.72	266.64
Doccia	36.95	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					267.84	266.99	266.90	266.55	266.48
Doccia	35.96	Max WS	A TR_200 1H	19.89	0.00	19.88	0.00					267.17	267.47	267.32	267.06	266.90
Doccia	35.96	Max WS	A TR_200 2H	25.54	0.00	25.39	0.00					267.17	267.72	267.55	267.23	267.00
Doccia	35.96	Max WS	A TR_200 3H	25.74	0.00	25.59	0.00					267.17	267.73	267.55	267.24	267.00
Doccia	35.96	Max WS	A TR_200 4H	24.36	0.00	24.28	0.00					267.17	267.68	267.51	267.20	266.99
Doccia	35.96	Max WS	A TR_200 6H	21.06	0.00	21.05	0.00					267.17	267.53	267.39	267.12	266.95
Doccia	35.96	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					267.17	267.38	267.25	266.98	266.83
Doccia	35.96	Max WS	A TR_200 12H	14.70	0.00	14.69	0.00					267.17	267.15	267.04	266.77	266.64
Doccia	35.96	Max WS	A TR_30 1H	9.28	0.00	9.28	0.00					267.17	266.73	266.65	266.37	266.28
Doccia	35.96	Max WS	A TR_30 2H	12.05	0.00	12.04	0.00					267.17	266.96	266.86	266.59	266.48
Doccia	35.96	Max WS	A TR_30 3H	12.47	0.00	12.46	0.00					267.17	266.99	266.89	266.62	266.50
Doccia	35.96	Max WS	A TR_30 4H	11.99	0.00	11.99	0.00					267.17	266.96	266.86	266.59	266.47
Doccia	35.96	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					267.17	266.84	266.75	266.47	266.37
Doccia	35.96	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					267.17	266.72	266.64	266.37	266.27
Doccia	35.96	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					267.17	266.55	266.48	266.21	266.12
Doccia	35.95	Max WS	A TR_200 1H	19.89	0.00	19.88	0.00					266.94	267.47	267.32	267.06	266.90
Doccia	35.95	Max WS	A TR_200 2H	25.54	0.14	25.39	0.14		13.79	0.06	0.03	266.94	267.72	267.55	267.23	267.00
Doccia	35.95	Max WS	A TR_200 3H	25.74	0.15	25.59	0.15		14.36	0.06	0.03	266.94	267.73	267.55	267.24	267.00
Doccia	35.95	Max WS	A TR_200 4H	24.36	0.08	24.28	0.08		10.44	0.05	0.03	266.94	267.68	267.51	267.20	266.99
Doccia	35.95	Max WS	A TR_200 6H	21.06	0.00	21.05	0.00		1.70	0.01	0.00	266.94	267.53	267.39	267.12	266.95
Doccia	35.95	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					266.94	267.38	267.25	266.98	266.83
Doccia	35.95	Max WS	A TR_200 12H	14.70	0.00	14.69	0.00					266.94	267.15	267.04	266.77	266.64
Doccia	35.95	Max WS	A TR_30 1H	9.28	0.00	9.28	0.00					266.94	266.73	266.65	266.37	266.28
Doccia	35.95	Max WS	A TR_30 2H	12.05	0.00	12.04	0.00					266.94	266.96	266.86	266.59	266.48
Doccia	35.95	Max WS	A TR_30 3H	12.47	0.00	12.46	0.00					266.94	266.99	266.89	266.62	266.50
Doccia	35.95	Max WS	A TR_30 4H	11.99	0.00	11.99	0.00					266.94	266.96	266.86	266.59	266.47
Doccia	35.95	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					266.94	266.84	266.75	266.47	266.37
Doccia	35.95	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					266.94	266.72	266.64	266.37	266.27
Doccia	35.95	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					266.94	266.55	266.48	266.21	266.12
Doccia	34.96	Max WS	A TR_200 1H	19.88	0.00	19.87	0.00					267.17	267.06	266.90	266.59	266.40
Doccia	34.96	Max WS	A TR_200 2H	25.39	0.00	22.20	0.00					267.17	267.23	267.00	266.76	266.60
Doccia	34.96	Max WS	A TR_200 3H	25.59	0.00	22.28	0.00					267.17	267.23	267.00	266.77	266.60
Doccia	34.96	Max WS	A TR_200 4H	24.28	0.00	21.81	0.00					267.17	267.20	266.99	266.75	266.58
Doccia	34.96	Max WS	A TR_200 6H	21.05	0.00	20.87	0.00					267.17	267.12	266.95	266.66	266.48
Doccia	34.96	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					267.17	266.98	266.83	266.51	266.33
Doccia	34.96	Max WS	A TR_200 12H	14.69	0.00	14.69	0.00					267.17	266.77	266.64	266.31	266.15
Doccia	34.96	Max WS	A TR_30 1H	9.28	0.00	9.27	0.00					267.17	266.37	266.28	265.94	265.82
Doccia	34.96	Max WS	A TR_30 2H	12.04	0.00	12.04	0.00					267.17	266.59	266.47	266.14	266.00
Doccia	34.96	Max WS	A TR_30 3H	12.46	0.00	12.46	0.00					267.17	266.62	266.50	266.17	266.02
Doccia	34.96	Max WS	A TR_30 4H	11.99	0.00	11.99	0.00					267.17	266.59	266.47	266.14	266.00
Doccia	34.96	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					267.17	266.47	266.37	266.03	265.90
Doccia	34.96	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					267.17	266.37	266.27	265.93	265.81
Doccia	34.96	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					267.17	266.21	266.12	265.78	265.68
Doccia	34.95	Max WS	A TR_200 1H	19.88	0.00	19.87	0.00					266.54	267.06	266.90	266.59	266.40
Doccia	34.95	Max WS	A TR_200 2H	25.39	3.19	22.20	3.19		116.60	0.07	0.06	266.54	267.23	267.00	266.76	266.60
Doccia	34.95	Max WS	A TR_200 3H	25.59	3.31	22.28	3.31		116.60	0.07	0.07	266.54	267.23	267.00	266.77	266.60
Doccia	34.95	Max WS	A TR_200 4H	24.28	2.46	21.81	2.46		116.60	0.06	0.05	266.54	267.20	266.99	266.75	266.58
Doccia	34.95	Max WS	A TR_200 6H	21.05	0.16	20.87	0.16		78.39	0.01	0.01	266.54	267.12	266.95	266.66	266.48
Doccia	34.95	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					266.54	266.98	266.83	266.51	266.33
Doccia	34.95	Max WS	A TR_200 12H	14.69	0.00	14.69	0.00					266.54	266.77	266.64	266.31	266.15
Doccia	34.95	Max WS	A TR_30 1H	9.28	0.00	9.27	0.00					266.54	266.37	266.28	265.94	265.82
Doccia	34.95	Max WS	A TR_30 2H	12.04	0.00	12.04	0.00					266.54	266.59	266.47	266.14	266.00
Doccia	34.95	Max WS	A TR_30 3H	12.46	0.00	12.46	0.00					266.54	266.62	266.50	266.17	266.02
Doccia	34.95	Max WS	A TR_30 4H	11.99	0.00	11.99	0.00					266.54	266.59	266.47	266.14	266.00
Doccia	34.95	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					266.54	266.47	266.37	266.03	265.90
Doccia	34.95	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					266.54	266.37	266.27	265.93	265.81
Doccia	34.95	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					266.54	266.21	266.12	265.78	265.68
Doccia	33.96	Max WS	A TR_200 1H	19.87	0.00	19.87	0.00					266.72	266.59	266.40	266.17	266.00
Doccia	33.96	Max WS	A TR_200 2H	22.20	0.00	21.98	0.00					266.72	266.76	266.60	266.49	266.35
Doccia	33.96	Max WS	A TR_200 3H	22.28	0.00	22.02	0.00					266.72	266.77	266.60	266.49	266.35
Doccia	33.96	Max WS	A TR_200 4H	21.81	0.00	21.72	0.00					266.72	266.75	266.58	266.46	266.32
Doccia	33.96	Max WS	A TR_200 6H	20.87	0.00	20.87	0.00					266.72	266.66	266.48	266.31	266.16
Doccia	33.96	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					266.72	266.50	266.33	266.09	265.94
Doccia	33.96	Max WS	A TR_200 12H	14.69	0.00	14.69	0.00					266.72	266.31	266.15	265.89	265.76
Doccia	33.96	Max WS	A TR_30 1H	9.27	0.00	9.27	0.00					266.72	265.94	265.82	265.52	265.43
Doccia	33.96	Max WS	A TR_30 2H	12.04	0.00	12.03	0.00					266.72	266.14	266.00	265.72	265.61
Doccia	33.96	Max WS	A TR_30 3H	12.46	0.00	12.46	0.00					266.72	266.17	266.02	265.75	265.64
Doccia	33.96	Max WS	A TR_30 4H	11.99	0.00	11.98	0.00					266.72	266.14	266.00	265.72	265.61

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)
Doccia	33.96	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					266.72	266.03	265.90	265.62	265.52
Doccia	33.96	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					266.72	265.93	265.81	265.52	265.44
Doccia	33.96	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					266.72	265.78	265.67	265.37	265.30
Doccia	33.95	Max WS	A TR_200 1H	19.87	0.00	19.87	0.00					266.49	266.59	266.40	266.17	266.00
Doccia	33.95	Max WS	A TR_200 2H	22.20	0.22	21.98	0.22		23.36	0.06	0.03	266.49	266.76	266.60	266.49	266.35
Doccia	33.95	Max WS	A TR_200 3H	22.28	0.25	22.02	0.25		24.77	0.06	0.03	266.49	266.77	266.60	266.49	266.35
Doccia	33.95	Max WS	A TR_200 4H	21.81	0.09	21.72	0.09		15.09	0.04	0.02	266.49	266.75	266.58	266.46	266.32
Doccia	33.95	Max WS	A TR_200 6H	20.87	0.00	20.87	0.00					266.49	266.66	266.48	266.31	266.16
Doccia	33.95	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					266.49	266.50	266.33	266.09	265.94
Doccia	33.95	Max WS	A TR_200 12H	14.69	0.00	14.69	0.00					266.49	266.31	266.15	265.89	265.76
Doccia	33.95	Max WS	A TR_30 1H	9.27	0.00	9.27	0.00					266.49	265.94	265.82	265.52	265.44
Doccia	33.95	Max WS	A TR_30 2H	12.04	0.00	12.03	0.00					266.49	266.14	266.00	265.72	265.62
Doccia	33.95	Max WS	A TR_30 3H	12.46	0.00	12.46	0.00					266.49	266.17	266.02	265.75	265.64
Doccia	33.95	Max WS	A TR_30 4H	11.99	0.00	11.98	0.00					266.49	266.14	266.00	265.72	265.61
Doccia	33.95	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					266.49	266.03	265.90	265.62	265.52
Doccia	33.95	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					266.49	265.93	265.81	265.52	265.44
Doccia	33.95	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					266.49	265.78	265.67	265.38	265.30
Doccia	28.95	Max WS	A TR_200 1H	19.86	0.00	19.85	0.00					264.90	265.59	265.33	265.09	264.84
Doccia	28.95	Max WS	A TR_200 2H	21.97	0.03	21.94	0.03		9.83	0.03	0.01	264.90	265.68	265.40	265.19	264.93
Doccia	28.95	Max WS	A TR_200 3H	22.02	0.03	21.99	0.03		10.30	0.03	0.01	264.90	265.69	265.41	265.19	264.93
Doccia	28.95	Max WS	A TR_200 4H	21.72	0.01	21.71	0.01		7.00	0.02	0.01	264.90	265.67	265.39	265.18	264.92
Doccia	28.95	Max WS	A TR_200 6H	20.86	0.00	20.86	0.00					264.90	265.63	265.36	265.14	264.88
Doccia	28.95	Max WS	A TR_200 8H	18.30	0.00	18.30	0.00					264.90	265.51	265.26	265.01	264.77
Doccia	28.95	Max WS	A TR_200 12H	14.69	0.00	14.69	0.00					264.90	265.33	265.10	264.81	264.60
Doccia	28.95	Max WS	A TR_30 1H	9.26	0.00	9.26	0.00					264.90	264.99	264.83	264.44	264.28
Doccia	28.95	Max WS	A TR_30 2H	12.03	0.00	12.02	0.00					264.90	265.17	264.97	264.64	264.46
Doccia	28.95	Max WS	A TR_30 3H	12.45	0.00	12.45	0.00					264.90	265.20	265.00	264.67	264.48
Doccia	28.95	Max WS	A TR_30 4H	11.98	0.00	11.98	0.00					264.90	265.17	264.97	264.64	264.45
Doccia	28.95	Max WS	A TR_30 6H	10.50	0.00	10.50	0.00					264.90	265.07	264.89	264.53	264.36
Doccia	28.95	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					264.90	264.99	264.82	264.44	264.28
Doccia	28.95	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					264.90	264.85	264.71	264.28	264.15
Doccia	27.95	Max WS	A TR_200 1H	19.85	0.00	19.83	0.00					264.82	265.09	264.84	264.65	264.44
Doccia	27.95	Max WS	A TR_200 2H	21.94	0.02	21.92	0.02		8.95	0.03	0.01	264.82	265.19	264.93	264.77	264.55
Doccia	27.95	Max WS	A TR_200 3H	21.99	0.03	21.96	0.03		9.56	0.03	0.01	264.82	265.19	264.93	264.77	264.55
Doccia	27.95	Max WS	A TR_200 4H	21.71	0.01	21.70	0.01		5.93	0.02	0.01	264.82	265.18	264.92	264.76	264.54
Doccia	27.95	Max WS	A TR_200 6H	20.86	0.00	20.85	0.00					264.82	265.14	264.88	264.72	264.50
Doccia	27.95	Max WS	A TR_200 8H	18.30	0.00	18.29	0.00					264.82	265.01	264.77	264.59	264.39
Doccia	27.95	Max WS	A TR_200 12H	14.69	0.00	14.69	0.00					264.82	264.81	264.60	264.39	264.22
Doccia	27.95	Max WS	A TR_30 1H	9.26	0.00	9.25	0.00					264.82	264.44	264.28	264.01	263.89
Doccia	27.95	Max WS	A TR_30 2H	12.02	0.00	12.02	0.00					264.82	264.64	264.46	264.22	264.07
Doccia	27.95	Max WS	A TR_30 3H	12.45	0.00	12.44	0.00					264.82	264.67	264.48	264.25	264.10
Doccia	27.95	Max WS	A TR_30 4H	11.98	0.00	11.97	0.00					264.82	264.64	264.45	264.22	264.07
Doccia	27.95	Max WS	A TR_30 6H	10.50	0.00	10.49	0.00					264.82	264.53	264.36	264.11	263.98
Doccia	27.95	Max WS	A TR_30 8H	9.20	0.00	9.20	0.00					264.82	264.44	264.28	264.01	263.89
Doccia	27.95	Max WS	A TR_30 12H	7.40	0.00	7.40	0.00					264.82	264.28	264.14	263.86	263.75
valle	17.9	Max WS	A TR_200 1H	39.26	0.00	39.21	0.00					256.57	256.76	256.59	256.49	256.37
valle	17.9	Max WS	A TR_200 2H	39.98	0.00	39.69	0.00					256.57	256.78	256.60	256.51	256.39
valle	17.9	Max WS	A TR_200 3H	39.76	0.00	39.73	0.00					256.57	256.77	256.60	256.51	256.39
valle	17.9	Max WS	A TR_200 4H	39.69	0.00	39.65	0.00					256.57	256.77	256.60	256.51	256.39
valle	17.9	Max WS	A TR_200 6H	39.47	0.00	39.45	0.00					256.57	256.77	256.59	256.51	256.39
valle	17.9	Max WS	A TR_200 8H	39.18	0.00	39.16	0.00					256.57	256.76	256.59	256.50	256.38
valle	17.9	Max WS	A TR_200 12H	38.28	0.00	38.27	0.00					256.57	256.73	256.57	256.47	256.36
valle	17.9	Max WS	A TR_30 1H	24.54	0.00	24.47	0.00					256.57	256.23	256.12	255.95	255.85
valle	17.9	Max WS	A TR_30 2H	32.70	0.00	32.60	0.00					256.57	256.54	256.39	256.26	256.15
valle	17.9	Max WS	A TR_30 3H	34.80	0.00	34.69	0.00					256.57	256.61	256.45	256.34	256.22
valle	17.9	Max WS	A TR_30 4H	34.30	0.00	34.20	0.00					256.57	256.60	256.44	256.33	256.22
valle	17.9	Max WS	A TR_30 6H	30.62	0.00	30.53	0.00					256.57	256.47	256.34	256.21	256.10
valle	17.9	Max WS	A TR_30 8H	26.94	0.00	26.89	0.00					256.57	256.34	256.22	256.08	255.98
valle	17.9	Max WS	A TR_30 12H	21.62	0.00	21.58	0.00					256.57	256.12	256.02	255.86	255.77
valle	16.9	Max WS	A TR_200 1H	39.21	0.00	39.10	0.00					256.40	256.49	256.37	256.26	256.12
valle	16.9	Max WS	A TR_200 2H	39.69	0.00	39.54	0.00					256.40	256.51	256.39	256.27	256.14
valle	16.9	Max WS	A TR_200 3H	39.73	0.00	39.65	0.00					256.40	256.51	256.39	256.28	256.15
valle	16.9	Max WS	A TR_200 4H	39.65	0.00	39.63	0.00					256.40	256.51	256.39	256.28	256.15
valle	16.9	Max WS	A TR_200 6H	39.45	0.00	39.43	0.00					256.40	256.51	256.39	256.28	256.15
valle	16.9	Max WS	A TR_200 8H	39.16	0.00	39.15	0.00					256.40	256.50	256.38	256.27	256.14
valle	16.9	Max WS	A TR_200 12H	38.27	0.00	38.27	0.00					256.40	256.47	256.36	256.25	256.12
valle	16.9	Max WS	A TR_30 1H	24.47	0.00	24.38	0.00					256.40	255.95	255.85	255.70	255.59
valle	16.9	Max WS	A TR_30 2H	32.60	0.00	32.47	0.00					256.40	256.26	256.15	256.02	255.90
valle	16.9	Max WS	A TR_30 3H	34.69	0.00	34.54	0.00					256.40	256.34	256.22	256.10	255.98
valle	16.9	Max WS	A TR_30 4H	34.20	0.00	34.07	0.00					256.40	256.33	256.22	256.09	255.97
valle	16.9	Max WS	A TR_30 6H	30.53	0.00	30.42	0.00					256.40	256.21	256.10	255.98	255.87
valle	16.9	Max WS	A TR_30 8H	26.89	0.00	26.77	0.00					256.40	256.08	255.98	255.84	255.74
valle	16.9	Max WS	A TR_30 12H	21.58	0.00	21.52	0.00					256.40	255.86	255.77	255.63	255.54
valle	15.95	Max WS	A TR_200 1H	39.10	0.00	38.87	0.00					256.55	256.26	256.12	256.01	255.87
valle	15.95	Max WS	A TR_200 2H	39.54	0.00	39.49	0.00					256.55	256.27	256.14	256.03	255.89
valle	15.95	Max WS	A TR_200 3H	39.65	0.00	39.64	0.00					256.55	256.28	256.15	256.04	255.90
valle	15.95	Max WS	A TR_200 4H	39.63	0.00	39.53	0.00					256.55	256.28	256.15	256.04	255.90
valle	15.95	Max WS	A TR_200 6H	39.43	0.00	39.37	0.00					256.55	256.28	256.15	256.04	255.90
valle	15.95	Max WS	A TR_200 8H	39.15	0.00	39.14	0.00					256.55	256.27	256.14	256.03	255.90
valle	15.95	Max WS	A TR_200 12H	38.27	0.00	38.26	0.00					256.55	256.25	256.12	256.01	255.88
valle	15.95	Max WS	A TR_30 1H	24.38	0.00	24.28	0.00					256.55	255.70	255.59	255.44	255.33
valle	15.95	Max WS	A TR_30 2H	32.47	0.00	32.31	0.00					256.55	256.02	255.90	255.77	255.64
valle	15.95	Max WS	A TR_30 3H	34.54	0.00	34.18	0.00					256.55	256.10	255.98	255.85	255.73
valle	15.95	Max WS	A TR_30 4H	34.07	0.00	33.75	0.00					256.55	256.09	255.97	255.86	255.74
valle	15.95	Max WS	A TR_30 6H	30.42	0.00	30.21	0.00					256.55	255.98	255.87	255.75	255.64
valle	15.95	Max WS	A TR_30 8H	26.77	0.00	26.57	0.00					256.55	255.84	255.74	255.62	255.52
valle	15.95	Max WS	A TR_30 12H	21.52	0.00	21.39	0.00					256.55	255.63	255.54	255.41	255.33
valle	15.9	Max WS	A TR_200 1H	39.10	0.00	38.87	0.00					256.35	256.26	256.12	256.01	255.87
valle	15.9	Max WS	A TR_200 2H	39.54	0.00	39.49	0.00					256.35	256.27	256.14	256.03	255.89
valle	15.9	Max WS	A TR_200 3H	39.65	0.00	39.64	0.00					256.35	256.28	256.15	256.04	255.90
valle	15.9	Max WS	A TR_200 4H	39.63	0.00	39.53	0.00					256.35	256.28	256.15	256.04	255.90
valle	15.9	Max WS	A TR_200 6H	39.43	0.00	39.37	0.00					256.35	256.28	256.15	256.04	255.90
valle	15.9	Max WS	A TR_200 8H	39.15	0.00	39.14	0.00					256.35	256.27	256.14	256.03	255.90
valle	15.9	Max WS	A TR_200 12H	38.27	0.00	38.26	0.00					256.35	256.25	256.12	256.01	255.88
valle	15.9	Max WS	A TR_30 1H	24.38	0.00	24.28	0.00					256.35	255.70	255.59	255.44	255.33
valle	15.9	Max WS	A TR_30 2H	32.47	0.00	32.31	0.00					256.35	256.02	255.90	255.77	255.64
valle	15.9	Max WS	A TR_30 3H	34.54	0.00	34.18	0.00					256.35	256.10	255.98	255.85	255.73
valle	15.9	Max WS	A TR_30 4H	34.07	0.00	33.75	0.00					256.35	256.09	255.97	255.86	255.74
valle	15.9	Max WS	A TR_30 6H	30.42	0.00	30.21	0.00					256.35	255.98	255.87	255.75	255.64
valle	15.9	Max WS	A TR_30 8H	26.77	0.00	26.57	0.00					256.35	255.84	255.74	255.62	255.52
valle	15.9	Max WS	A TR_30 12H	21.52	0.00	21.39	0.00					256.35	255.63	255.54	255.41	255.33
valle	14.96	Max WS	A TR_200 1H	38.87	0.00	38.58	0.00					255.90	256.01	255.87	255.78	255.67
valle	14.96	Max WS	A TR_200 2H	39.49	0.00	39.38	0.00					255.90	256.03	255.89	255.81	255.69
valle	14.96	Max WS	A TR_200 3H	39.64	0.00	39.40	0.00					255.90	256.04	255.90	255.81	255.70
valle	14.96	Max WS	A TR_200 4H	39.53	0.00	39.31	0.00					255.90	256.04	255.90	255.81	255.70
valle	14.96	Max WS	A TR_200 6H	39.37	0.00	39.36	0.00					255.90	256.04	255.90	255.82	255.71
valle	14.96	Max WS	A TR_200 8H	39.14	0.00	39.14	0.00					255.90	256.03	255.90	255.81	255.70
valle	14.96	Max WS	A TR_200 12H	38.26	0.00	38.26	0.00					255.90	256.01	255.88	255.80	255.69

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)
valle	14.96	Max WS	A TR_30 1H	24.28	0.00	24.20	0.00					255.90	255.44	255.33	255.21	255.12
valle	14.96	Max WS	A TR_30 2H	32.31	0.00	32.14	0.00					255.90	255.77	255.64	255.54	255.44
valle	14.96	Max WS	A TR_30 3H	34.18	0.00	33.94	0.00					255.90	255.85	255.73	255.64	255.54
valle	14.96	Max WS	A TR_30 4H	33.75	0.00	33.39	0.00					255.90	255.86	255.73	255.65	255.55
valle	14.96	Max WS	A TR_30 6H	30.21	0.00	29.95	0.00					255.90	255.75	255.64	255.55	255.47
valle	14.96	Max WS	A TR_30 8H	26.57	0.00	26.35	0.00					255.90	255.62	255.52	255.44	255.36
valle	14.96	Max WS	A TR_30 12H	21.39	0.00	21.27	0.00					255.90	255.41	255.33	255.24	255.18
valle	14.95	Max WS	A TR_200 1H	38.87	0.00	38.58	0.00					256.05	256.01	255.87	255.78	255.67
valle	14.95	Max WS	A TR_200 2H	39.49	0.00	39.38	0.00					256.05	256.03	255.89	255.81	255.69
valle	14.95	Max WS	A TR_200 3H	39.64	0.00	39.40	0.00					256.05	256.04	255.90	255.81	255.70
valle	14.95	Max WS	A TR_200 4H	39.53	0.00	39.31	0.00					256.05	256.04	255.90	255.81	255.70
valle	14.95	Max WS	A TR_200 6H	39.37	0.00	39.36	0.00					256.05	256.04	255.90	255.82	255.71
valle	14.95	Max WS	A TR_200 8H	39.14	0.00	39.14	0.00					256.05	256.03	255.90	255.81	255.70
valle	14.95	Max WS	A TR_200 12H	38.26	0.00	38.26	0.00					256.05	256.01	255.88	255.80	255.69
valle	14.95	Max WS	A TR_30 1H	24.28	0.00	24.20	0.00					256.05	255.44	255.33	255.21	255.12
valle	14.95	Max WS	A TR_30 2H	32.31	0.00	32.14	0.00					256.05	255.77	255.64	255.54	255.44
valle	14.95	Max WS	A TR_30 3H	34.18	0.00	33.94	0.00					256.05	255.85	255.73	255.64	255.54
valle	14.95	Max WS	A TR_30 4H	33.75	0.00	33.39	0.00					256.05	255.86	255.73	255.65	255.55
valle	14.95	Max WS	A TR_30 6H	30.21	0.00	29.95	0.00					256.05	255.75	255.64	255.55	255.47
valle	14.95	Max WS	A TR_30 8H	26.57	0.00	26.35	0.00					256.05	255.62	255.52	255.44	255.36
valle	14.95	Max WS	A TR_30 12H	21.39	0.00	21.27	0.00					256.05	255.41	255.33	255.24	255.18
valle	13.95	Max WS	A TR_200 1H	38.58	0.00	38.36	0.00					255.90	255.78	255.67	255.67	255.54
valle	13.95	Max WS	A TR_200 2H	39.38	0.00	39.27	0.00					255.90	255.81	255.69	255.69	255.55
valle	13.95	Max WS	A TR_200 3H	39.40	0.00	39.25	0.00					255.90	255.81	255.70	255.70	255.56
valle	13.95	Max WS	A TR_200 4H	39.31	0.00	39.25	0.00					255.90	255.81	255.70	255.70	255.57
valle	13.95	Max WS	A TR_200 6H	39.36	0.00	39.28	0.00					255.90	255.82	255.71	255.70	255.57
valle	13.95	Max WS	A TR_200 8H	39.14	0.00	39.11	0.00					255.90	255.81	255.70	255.70	255.57
valle	13.95	Max WS	A TR_200 12H	38.26	0.00	38.26	0.00					255.90	255.80	255.69	255.69	255.56
valle	13.95	Max WS	A TR_30 1H	24.20	0.00	24.12	0.00					255.90	255.20	255.12	255.09	254.98
valle	13.95	Max WS	A TR_30 2H	32.14	0.00	32.01	0.00					255.90	255.54	255.44	255.42	255.30
valle	13.95	Max WS	A TR_30 3H	33.94	0.00	33.71	0.00					255.90	255.64	255.54	255.52	255.40
valle	13.95	Max WS	A TR_30 4H	33.39	0.00	33.11	0.00					255.90	255.65	255.55	255.54	255.43
valle	13.95	Max WS	A TR_30 6H	29.95	0.00	29.72	0.00					255.90	255.55	255.47	255.46	255.36
valle	13.95	Max WS	A TR_30 8H	26.35	0.00	26.15	0.00					255.90	255.44	255.36	255.35	255.26
valle	13.95	Max WS	A TR_30 12H	21.27	0.00	21.16	0.00					255.90	255.24	255.18	255.16	255.09
valle	13.9	Max WS	A TR_200 1H	38.58	0.00	38.36	0.00					255.89	255.78	255.67	255.67	255.54
valle	13.9	Max WS	A TR_200 2H	39.38	0.00	39.27	0.00					255.89	255.81	255.69	255.69	255.55
valle	13.9	Max WS	A TR_200 3H	39.40	0.00	39.25	0.00					255.89	255.81	255.70	255.70	255.56
valle	13.9	Max WS	A TR_200 4H	39.31	0.00	39.25	0.00					255.89	255.81	255.70	255.70	255.57
valle	13.9	Max WS	A TR_200 6H	39.36	0.00	39.28	0.00					255.89	255.82	255.71	255.70	255.57
valle	13.9	Max WS	A TR_200 8H	39.14	0.00	39.11	0.00					255.89	255.81	255.70	255.70	255.57
valle	13.9	Max WS	A TR_200 12H	38.26	0.00	38.26	0.00					255.89	255.80	255.69	255.69	255.56
valle	13.9	Max WS	A TR_30 1H	24.20	0.00	24.12	0.00					255.89	255.20	255.12	255.09	254.98
valle	13.9	Max WS	A TR_30 2H	32.14	0.00	32.01	0.00					255.89	255.54	255.44	255.42	255.30
valle	13.9	Max WS	A TR_30 3H	33.94	0.00	33.71	0.00					255.89	255.64	255.54	255.52	255.40
valle	13.9	Max WS	A TR_30 4H	33.39	0.00	33.11	0.00					255.89	255.65	255.55	255.54	255.43
valle	13.9	Max WS	A TR_30 6H	29.95	0.00	29.72	0.00					255.89	255.55	255.47	255.46	255.36
valle	13.9	Max WS	A TR_30 8H	26.35	0.00	26.15	0.00					255.89	255.44	255.36	255.35	255.26
valle	13.9	Max WS	A TR_30 12H	21.27	0.00	21.16	0.00					255.89	255.24	255.18	255.16	255.09
valle	12.95	Max WS	A TR_200 1H	38.36	0.41	37.53	0.41		20.45	0.09	0.05	255.33	255.67	255.54	255.52	255.42
valle	12.95	Max WS	A TR_200 2H	39.27	0.67	38.44	0.67		24.85	0.12	0.06	255.33	255.69	255.55	255.55	255.45
valle	12.95	Max WS	A TR_200 3H	39.25	0.81	38.21	0.81		26.72	0.13	0.06	255.33	255.70	255.56	255.56	255.46
valle	12.95	Max WS	A TR_200 4H	39.25	0.92	38.15	0.92		28.12	0.13	0.07	255.33	255.70	255.57	255.56	255.46
valle	12.95	Max WS	A TR_200 6H	39.28	0.98	38.18	0.98		28.81	0.14	0.07	255.33	255.70	255.57	255.57	255.47
valle	12.95	Max WS	A TR_200 8H	39.11	0.98	38.05	0.98		28.71	0.14	0.07	255.33	255.70	255.57	255.57	255.47
valle	12.95	Max WS	A TR_200 12H	38.26	0.91	37.30	0.91		27.85	0.13	0.07	255.33	255.69	255.56	255.56	255.46
valle	12.95	Max WS	A TR_30 1H	24.12	0.00	24.07	0.00					255.33	255.09	254.98	254.94	254.86
valle	12.95	Max WS	A TR_30 2H	32.01	0.00	31.80	0.00					255.33	255.42	255.30	255.28	255.18
valle	12.95	Max WS	A TR_30 3H	33.71	0.00	33.32	0.00					255.33	255.52	255.40	255.39	255.30
valle	12.95	Max WS	A TR_30 4H	33.11	0.00	32.78	0.00		1.42	0.01	0.00	255.33	255.54	255.43	255.42	255.34
valle	12.95	Max WS	A TR_30 6H	29.72	0.00	29.53	0.00					255.33	255.46	255.36	255.35	255.28
valle	12.95	Max WS	A TR_30 8H	26.15	0.00	25.98	0.00					255.33	255.35	255.26	255.25	255.19
valle	12.95	Max WS	A TR_30 12H	21.16	0.00	21.09	0.00					255.33	255.16	255.09	255.08	255.03
valle	12.9	Max WS	A TR_200 1H	38.36	0.00	37.53	0.00					255.60	255.67	255.54	255.52	255.42
valle	12.9	Max WS	A TR_200 2H	39.27	0.00	38.44	0.00					255.60	255.69	255.55	255.55	255.45
valle	12.9	Max WS	A TR_200 3H	39.25	0.00	38.21	0.00					255.60	255.70	255.56	255.56	255.46
valle	12.9	Max WS	A TR_200 4H	39.25	0.00	38.15	0.00					255.60	255.70	255.57	255.56	255.46
valle	12.9	Max WS	A TR_200 6H	39.28	0.00	38.18	0.00					255.60	255.70	255.57	255.57	255.47
valle	12.9	Max WS	A TR_200 8H	39.11	0.00	38.05	0.00					255.60	255.70	255.57	255.57	255.47
valle	12.9	Max WS	A TR_200 12H	38.26	0.00	37.30	0.00					255.60	255.69	255.56	255.56	255.46
valle	12.9	Max WS	A TR_30 1H	24.12	0.00	24.07	0.00					255.60	255.09	254.98	254.94	254.86
valle	12.9	Max WS	A TR_30 2H	32.01	0.00	31.80	0.00					255.60	255.42	255.30	255.28	255.18
valle	12.9	Max WS	A TR_30 3H	33.71	0.00	33.32	0.00					255.60	255.52	255.40	255.39	255.30
valle	12.9	Max WS	A TR_30 4H	33.11	0.00	32.78	0.00					255.60	255.54	255.43	255.42	255.34
valle	12.9	Max WS	A TR_30 6H	29.72	0.00	29.53	0.00					255.60	255.46	255.36	255.35	255.28
valle	12.9	Max WS	A TR_30 8H	26.15	0.00	25.98	0.00					255.60	255.35	255.26	255.25	255.19
valle	12.9	Max WS	A TR_30 12H	21.16	0.00	21.09	0.00					255.60	255.16	255.09	255.08	255.03
valle	11.95	Max WS	A TR_200 1H	37.53	6.24	30.95	6.24		116.30	0.11	0.10	255.26	255.52	255.42	255.44	255.37
valle	11.95	Max WS	A TR_200 2H	38.44	10.88	27.46	10.88		116.30	0.19	0.14	255.26	255.55	255.45	255.50	255.45
valle	11.95	Max WS	A TR_200 3H	38.21	13.26	24.87	13.26		116.30	0.22	0.16	255.26	255.56	255.46	255.52	255.48
valle	11.95	Max WS	A TR_200 4H	38.15	15.01	23.11	15.01		116.30	0.24	0.18	255.26	255.56	255.46	255.53	255.50
valle	11.95	Max WS	A TR_200 6H	38.18	15.88	22.30	15.88		116.30	0.25	0.18	255.26	255.57	255.47	255.54	255.51
valle	11.95	Max WS	A TR_200 8H	38.05	15.79	22.26	15.79		116.30	0.25	0.18	255.26	255.57	255.47	255.54	255.51
valle	11.95	Max WS	A TR_200 12H	37.30	15.04	22.25	15.04		116.30	0.24	0.18	255.26	255.56	255.46	255.53	255.50
valle	11.95	Max WS	A TR_30 1H	24.07	0.00	23.98	0.00					255.26	254.94	254.86	254.81	254.71
valle	11.95	Max WS	A TR_30 2H	31.80	0.00	30.73	0.00					255.26	255.28	255.18	255.15	255.04
valle	11.95	Max WS	A TR_30 3H	33.32	0.00	32.65	0.00					255.26	255.39	255.30	255.27	255.18
valle	11.95	Max WS	A TR_30 4H	32.78	0.01	32.34	0.01		17.75	0.01	0.00	255.26	255.42	255.34	255.31	255.22
valle	11.95	Max WS	A TR_30 6H	29.53	0.00	29.26	0.00					255.26	255.35	255.28	255.26	255.18
valle	11.95	Max WS	A TR_30 8H	25.98	0.00	25.78	0.00					255.26	255.25	255.19	255.17	255.10
valle	11.95	Max WS	A TR_30 12H	21.09	0.00	20.98	0.00					255.26	255.08	255.03	255.00	254.95
valle	11.9	Max WS	A TR_200 1H	37.53	0.00	30.95	0.00					255.60	255.52	255.42	255.44	255.37
valle	11.9	Max WS	A TR_200 2H	38.44	0.00	27.46	0.00					255.60	255.55	255.45	255.50	255.45
valle	11.9	Max WS	A TR_200 3H	38.21	0.00	24.87	0.00					255.60	255.56	255.46	255.52	255.48
valle	11.9	Max WS	A TR_200 4H	38.15	0.00	23.11	0.00					255.60	255.56	255.46	255.53	255.50
valle	11.9	Max WS	A TR_200 6H	38.18	0.00	22.30	0.00					255.60	255.57	255.47	255.54	255.51
valle	11.9	Max WS	A TR_200 8H	38.05	0.00	22.26	0.00					255.60	255.57	255.47	255.54	255.51
valle	11.9	Max WS	A TR_200 12H	37.30	0.00	22.25	0.00					255.60	255.56	255.46	255.53	255.50
valle	11.9	Max WS	A TR_30 1H	24.07	0.00	23.98	0.00					255.60	254.94	254.86	254.81	254.71
valle	11.9	Max WS	A TR_30 2H	31.80	0.00	30.73	0.00					255.60	255.28	255.18	255.15	255.04
valle	11.9	Max WS	A TR_30 3H	33.32	0.00	32.65	0.00					255.60	255.39	255.30	255.27	255.18
valle	11.9	Max WS	A TR_30 4H	32.78	0.00	32.34	0.00					255.60	255.42	255.34	255.31	255.22
valle	11.9	Max WS	A TR_30 6H	29.53	0.00	29.26	0.00					255.60	255.35	255.28	255.26	255.18
valle	11.9	Max WS	A TR_30 8H	25.98	0.00	25.78	0.00					255.60	255.25	255.19	255.17	255.10
valle	11.9	Max WS	A TR_30 12H	21.09	0.00	20.98	0.00					255.60	255.08	255.03	255.00	254.95
valle	10.95	Max WS	A TR_200 1H	30.95	0.81	30.02	0.81		30.58	0.11	0.06	255.26	255.44	255.37	255.38	255.32
valle	10.95	Max WS	A TR_200 2H	27.46	3.32	24.13	3.32		56.73	0.19	0.10	255.26	255.50	255.45	255.47	255.43
valle	10.95	Max WS	A TR_200 3H	24.87	5.13	19.74	5.13		68.83	0.22	0.11	255.26	255.52	255.48	255.50	255.48

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)
valle	10.95	Max WS	A TR_200 4H	23.11	6.57	16.49	6.57		76.77	0.24	0.13	255.26	255.53	255.50	255.53	255.51
valle	10.95	Max WS	A TR_200 6H	22.30	7.31	14.91	7.31		80.32	0.25	0.13	255.26	255.54	255.51	255.54	255.52
valle	10.95	Max WS	A TR_200 8H	22.26	7.21	14.97	7.21		79.88	0.25	0.13	255.26	255.54	255.51	255.54	255.52
valle	10.95	Max WS	A TR_200 12H	22.25	6.56	15.66	6.56		76.77	0.24	0.13	255.26	255.53	255.50	255.53	255.51
valle	10.95	Max WS	A TR_30 1H	23.98	0.00	23.90	0.00					255.26	254.81	254.71	254.67	254.57
valle	10.95	Max WS	A TR_30 2H	30.73	0.00	30.45	0.00					255.26	255.15	255.04	255.03	254.93
valle	10.95	Max WS	A TR_30 3H	32.65	0.00	32.15	0.00					255.26	255.27	255.17	255.17	255.08
valle	10.95	Max WS	A TR_30 4H	32.34	0.00	32.02	0.00					255.26	255.31	255.22	255.21	255.13
valle	10.95	Max WS	A TR_30 6H	29.26	0.00	29.04	0.00					255.26	255.26	255.18	255.17	255.10
valle	10.95	Max WS	A TR_30 8H	25.78	0.00	25.62	0.00					255.26	255.17	255.10	255.09	255.04
valle	10.95	Max WS	A TR_30 12H	20.98	0.00	20.91	0.00					255.26	255.00	254.95	254.94	254.89
valle	10.9	Max WS	A TR_200 1H	30.95	0.00	30.02	0.00					255.49	255.44	255.37	255.38	255.32
valle	10.9	Max WS	A TR_200 2H	27.46	0.00	24.13	0.00					255.49	255.50	255.45	255.47	255.43
valle	10.9	Max WS	A TR_200 3H	24.87	0.00	19.74	0.00					255.49	255.52	255.48	255.50	255.48
valle	10.9	Max WS	A TR_200 4H	23.11	0.03	16.49	0.03		11.50	0.02	0.01	255.49	255.53	255.50	255.53	255.51
valle	10.9	Max WS	A TR_200 6H	22.30	0.08	14.91	0.08		18.15	0.03	0.02	255.49	255.54	255.51	255.54	255.52
valle	10.9	Max WS	A TR_200 8H	22.26	0.07	14.97	0.07		17.35	0.03	0.02	255.49	255.54	255.51	255.54	255.52
valle	10.9	Max WS	A TR_200 12H	22.25	0.03	15.66	0.03		11.57	0.02	0.01	255.49	255.53	255.50	255.53	255.51
valle	10.9	Max WS	A TR_30 1H	23.98	0.00	23.90	0.00					255.49	254.81	254.71	254.67	254.57
valle	10.9	Max WS	A TR_30 2H	30.73	0.00	30.45	0.00					255.49	255.15	255.04	255.03	254.93
valle	10.9	Max WS	A TR_30 3H	32.65	0.00	32.15	0.00					255.49	255.27	255.17	255.17	255.08
valle	10.9	Max WS	A TR_30 4H	32.34	0.00	32.02	0.00					255.49	255.31	255.22	255.21	255.13
valle	10.9	Max WS	A TR_30 6H	29.26	0.00	29.04	0.00					255.49	255.26	255.18	255.17	255.10
valle	10.9	Max WS	A TR_30 8H	25.78	0.00	25.62	0.00					255.49	255.17	255.10	255.09	255.04
valle	10.9	Max WS	A TR_30 12H	20.98	0.00	20.91	0.00					255.49	255.00	254.95	254.94	254.89
valle	9.95	Max WS	A TR_200 1H	30.02	0.00	29.95	0.00					255.63	255.38	255.32	255.32	255.27
valle	9.95	Max WS	A TR_200 2H	24.13	0.00	24.10	0.00					255.63	255.47	255.43	255.44	255.41
valle	9.95	Max WS	A TR_200 3H	19.74	0.00	19.74	0.00					255.63	255.50	255.48	255.48	255.46
valle	9.95	Max WS	A TR_200 4H	16.49	0.00	16.52	0.00					255.63	255.53	255.51	255.51	255.50
valle	9.95	Max WS	A TR_200 6H	14.91	0.00	14.89	0.00					255.63	255.54	255.52	255.53	255.52
valle	9.95	Max WS	A TR_200 8H	14.97	0.00	14.91	0.00					255.63	255.54	255.52	255.52	255.51
valle	9.95	Max WS	A TR_200 12H	15.66	0.00	15.63	0.00					255.63	255.53	255.51	255.51	255.50
valle	9.95	Max WS	A TR_30 1H	23.90	0.00	23.79	0.00					255.63	254.67	254.57	254.53	254.44
valle	9.95	Max WS	A TR_30 2H	30.45	0.00	30.23	0.00					255.63	255.03	254.93	254.92	254.82
valle	9.95	Max WS	A TR_30 3H	32.15	0.00	31.77	0.00					255.63	255.16	255.08	255.07	254.99
valle	9.95	Max WS	A TR_30 4H	32.02	0.00	31.76	0.00					255.63	255.21	255.13	255.13	255.05
valle	9.95	Max WS	A TR_30 6H	29.04	0.00	28.84	0.00					255.63	255.17	255.10	255.10	255.03
valle	9.95	Max WS	A TR_30 8H	25.62	0.00	25.51	0.00					255.63	255.09	255.04	255.03	254.98
valle	9.95	Max WS	A TR_30 12H	20.91	0.00	20.85	0.00					255.63	254.94	254.89	254.89	254.85
valle	9.9	Max WS	A TR_200 1H	30.02	0.00	29.95	0.00					255.49	255.38	255.32	255.32	255.27
valle	9.9	Max WS	A TR_200 2H	24.13	0.00	24.10	0.00					255.49	255.47	255.43	255.44	255.41
valle	9.9	Max WS	A TR_200 3H	19.74	0.00	19.74	0.00					255.49	255.50	255.48	255.48	255.46
valle	9.9	Max WS	A TR_200 4H	16.49	0.02	16.52	0.02		7.65	0.02	0.01	255.49	255.53	255.51	255.51	255.50
valle	9.9	Max WS	A TR_200 6H	14.91	0.05	14.89	0.05		12.35	0.03	0.02	255.49	255.54	255.52	255.53	255.52
valle	9.9	Max WS	A TR_200 8H	14.97	0.05	14.91	0.05		11.81	0.03	0.02	255.49	255.54	255.52	255.52	255.51
valle	9.9	Max WS	A TR_200 12H	15.66	0.02	15.63	0.02		7.75	0.02	0.01	255.49	255.53	255.51	255.51	255.50
valle	9.9	Max WS	A TR_30 1H	23.90	0.00	23.79	0.00					255.49	254.67	254.57	254.53	254.44
valle	9.9	Max WS	A TR_30 2H	30.45	0.00	30.23	0.00					255.49	255.03	254.93	254.92	254.82
valle	9.9	Max WS	A TR_30 3H	32.15	0.00	31.77	0.00					255.49	255.16	255.08	255.07	254.99
valle	9.9	Max WS	A TR_30 4H	32.02	0.00	31.76	0.00					255.49	255.21	255.13	255.13	255.05
valle	9.9	Max WS	A TR_30 6H	29.04	0.00	28.84	0.00					255.49	255.17	255.10	255.10	255.03
valle	9.9	Max WS	A TR_30 8H	25.62	0.00	25.51	0.00					255.49	255.09	255.04	255.03	254.98
valle	9.9	Max WS	A TR_30 12H	20.91	0.00	20.85	0.00					255.49	254.94	254.89	254.89	254.85
valle	8.95	Max WS	A TR_200 1H	29.95	0.00	29.91	0.00					255.90	255.32	255.27	255.28	255.22
valle	8.95	Max WS	A TR_200 2H	24.10	0.00	24.03	0.00					255.90	255.44	255.41	255.41	255.38
valle	8.95	Max WS	A TR_200 3H	19.74	0.00	19.74	0.00					255.90	255.48	255.46	255.47	255.45
valle	8.95	Max WS	A TR_200 4H	16.52	0.00	16.53	0.00					255.90	255.51	255.50	255.50	255.49
valle	8.95	Max WS	A TR_200 6H	14.89	0.00	14.88	0.00					255.90	255.53	255.52	255.52	255.51
valle	8.95	Max WS	A TR_200 8H	14.91	0.00	14.92	0.00					255.90	255.52	255.51	255.52	255.51
valle	8.95	Max WS	A TR_200 12H	15.63	0.00	15.63	0.00					255.90	255.51	255.50	255.51	255.49
valle	8.95	Max WS	A TR_30 1H	23.79	0.00	23.65	0.00					255.90	254.53	254.44	254.42	254.31
valle	8.95	Max WS	A TR_30 2H	30.23	0.00	30.03	0.00					255.90	254.92	254.82	254.83	254.73
valle	8.95	Max WS	A TR_30 3H	31.77	0.00	31.50	0.00					255.90	255.07	254.99	255.00	254.91
valle	8.95	Max WS	A TR_30 4H	31.76	0.00	31.54	0.00					255.90	255.13	255.05	255.06	254.98
valle	8.95	Max WS	A TR_30 6H	28.84	0.00	28.67	0.00					255.90	255.10	255.03	255.04	254.97
valle	8.95	Max WS	A TR_30 8H	25.51	0.00	25.37	0.00					255.90	255.03	254.98	254.98	254.93
valle	8.95	Max WS	A TR_30 12H	20.85	0.00	20.80	0.00					255.90	254.89	254.85	254.85	254.80
valle	8.9	Max WS	A TR_200 1H	29.95	0.00	29.91	0.00					255.79	255.32	255.27	255.28	255.22
valle	8.9	Max WS	A TR_200 2H	24.10	0.00	24.03	0.00					255.79	255.44	255.41	255.41	255.38
valle	8.9	Max WS	A TR_200 3H	19.74	0.00	19.74	0.00					255.79	255.48	255.46	255.47	255.45
valle	8.9	Max WS	A TR_200 4H	16.52	0.00	16.53	0.00					255.79	255.51	255.50	255.50	255.49
valle	8.9	Max WS	A TR_200 6H	14.89	0.00	14.88	0.00					255.79	255.53	255.52	255.52	255.51
valle	8.9	Max WS	A TR_200 8H	14.91	0.00	14.92	0.00					255.79	255.52	255.51	255.52	255.51
valle	8.9	Max WS	A TR_200 12H	15.63	0.00	15.63	0.00					255.79	255.51	255.50	255.51	255.49
valle	8.9	Max WS	A TR_30 1H	23.79	0.00	23.65	0.00					255.79	254.53	254.44	254.42	254.31
valle	8.9	Max WS	A TR_30 2H	30.23	0.00	30.03	0.00					255.79	254.92	254.82	254.83	254.73
valle	8.9	Max WS	A TR_30 3H	31.77	0.00	31.50	0.00					255.79	255.07	254.99	255.00	254.91
valle	8.9	Max WS	A TR_30 4H	31.76	0.00	31.54	0.00					255.79	255.13	255.05	255.06	254.98
valle	8.9	Max WS	A TR_30 6H	28.84	0.00	28.67	0.00					255.79	255.10	255.03	255.04	254.97
valle	8.9	Max WS	A TR_30 8H	25.51	0.00	25.37	0.00					255.79	255.03	254.98	254.98	254.93
valle	8.9	Max WS	A TR_30 12H	20.85	0.00	20.80	0.00					255.79	254.89	254.85	254.85	254.80
valle	7.95	Max WS	A TR_200 1H	29.91	0.00	29.88	0.00					255.49	255.28	255.22	255.23	255.18
valle	7.95	Max WS	A TR_200 2H	24.03	0.00	24.03	0.00					255.49	255.41	255.38	255.39	255.36
valle	7.95	Max WS	A TR_200 3H	19.74	0.00	19.73	0.00					255.49	255.47	255.45	255.45	255.44
valle	7.95	Max WS	A TR_200 4H	16.53	0.00	16.51	0.00					255.49	255.50	255.49	255.49	255.48
valle	7.95	Max WS	A TR_200 6H	14.88	0.00	14.87	0.00		2.91	0.01	0.01	255.49	255.52	255.51	255.51	255.50
valle	7.95	Max WS	A TR_200 8H	14.92	0.00	14.91	0.00		2.42	0.01	0.00	255.49	255.52	255.51	255.51	255.50
valle	7.95	Max WS	A TR_200 12H	15.63	0.00	15.62	0.00					255.49	255.51	255.49	255.50	255.48
valle	7.95	Max WS	A TR_30 1H	23.65	0.00	23.41	0.00					255.49	254.42	254.31	254.27	254.15
valle	7.95	Max WS	A TR_30 2H	30.03	0.00	29.76	0.00					255.49	254.83	254.73	254.71	254.62
valle	7.95	Max WS	A TR_30 3H	31.50	0.00	31.23	0.00					255.49	255.00	254.91	254.90	254.82
valle	7.95	Max WS	A TR_30 4H	31.54	0.00	31.30	0.00					255.49	255.06	254.98	254.98	254.90
valle	7.95	Max WS	A TR_30 6H	28.67	0.00	28.45	0.00					255.49	255.04	254.97	254.97	254.91
valle	7.95	Max WS	A TR_30 8H	25.37	0.00	25.22	0.00					255.49	254.98	254.93	254.93	254.88
valle	7.95	Max WS	A TR_30 12H	20.80	0.00	20.78	0.00					255.49	254.85	254.80	254.80	254.76
valle	7.9	Max WS	A TR_200 1H	29.91	0.00	29.88	0.00					255.78	255.28	255.22	255.23	255.18
valle	7.9	Max WS	A TR_200 2H	24.03	0.00	24.03	0.00					255.78	255.41	255.38	255.39	255.36
valle	7.9	Max WS	A TR_200 3H	19.74	0.00	19.73	0.00					255.78	255.47	255.45	255.45	255.44
valle	7.9	Max WS	A TR_200 4H	16.53	0.00	16.51	0.00					255.78	255.50	255.49	255.49	255.48
valle	7.9	Max WS	A TR_200 6H	14.88	0.00	14.87	0.00					255.78	255.52	255.51	255.51	255.50
valle	7.9	Max WS	A TR_200 8H	14.92	0.00	14.91	0.00					255.78	255.52	255.51	255.51	255.50
valle	7.9	Max WS	A TR_200 12H	15.63	0.00	15.62	0.00					255.78	255.51	255.49	255.50	255.48
valle	7.9	Max WS	A TR_30 1H	23.65	0.00	23.41	0.00					255.78	254.42	254.31	254.27	254.15
valle	7.9	Max WS	A TR_30 2H	30.03	0.00	29.76	0.00					255.78	254.83	254.73	254.71	254.62
valle	7.9	Max WS	A TR_30 3H	31.50	0.00	31.23	0.00					255.78	255.00	254.91	254.90	254.82
valle	7.9	Max WS	A TR_30 4H	31.54	0.00	31.30	0.00					255.78	255.06	254.98	254.98	254.90
valle	7.9	Max WS	A TR_30 6H	28.67	0.00	28.45	0.00					255.78	255.04	254.97	254.97	254.91
valle	7.9	Max WS	A TR_30 8H	25.37	0.00	25.22	0.00					255.78	254.98	254.93	254.93	254.88
valle	7.9	Max WS	A TR_30 12H	20.80	0.00	20.78	0.00					255.78	254.85	254.80	254.80	254.76

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)
valle	6.95	Max WS	A TR_200 1H	29.88	1.15	28.74	1.15		30.65	0.15	0.07	255.00	255.23	255.18	255.19	255.15
valle	6.95	Max WS	A TR_200 2H	24.03	10.91	13.13	10.91		72.21	0.38	0.18	255.00	255.39	255.36	255.38	255.38
valle	6.95	Max WS	A TR_200 3H	19.73	18.40	1.36	18.40		88.71	0.46	0.22	255.00	255.45	255.44	255.46	255.46
valle	6.95	Max WS	A TR_200 4H	16.51	23.42	-6.86	23.42		98.15	0.49	0.25	255.00	255.49	255.48	255.50	255.49
valle	6.95	Max WS	A TR_200 6H	14.87	25.62	-10.68	25.62		99.90	0.51	0.26	255.00	255.51	255.50	255.51	255.51
valle	6.95	Max WS	A TR_200 8H	14.91	25.40	-10.43	25.40		99.90	0.50	0.26	255.00	255.51	255.50	255.51	255.50
valle	6.95	Max WS	A TR_200 12H	15.62	23.71	-8.05	23.71		98.84	0.49	0.25	255.00	255.50	255.48	255.50	255.49
valle	6.95	Max WS	A TR_30 1H	23.41	0.00	23.10	0.00					255.00	254.27	254.15	254.11	253.99
valle	6.95	Max WS	A TR_30 2H	29.76	0.00	29.54	0.00					255.00	254.71	254.62	254.61	254.52
valle	6.95	Max WS	A TR_30 3H	31.23	0.00	31.00	0.00					255.00	254.90	254.82	254.83	254.75
valle	6.95	Max WS	A TR_30 4H	31.30	0.00	31.12	0.00					255.00	254.98	254.90	254.91	254.84
valle	6.95	Max WS	A TR_30 6H	28.45	0.00	28.32	0.00					255.00	254.97	254.91	254.92	254.86
valle	6.95	Max WS	A TR_30 8H	25.22	0.00	25.13	0.00					255.00	254.93	254.88	254.88	254.84
valle	6.95	Max WS	A TR_30 12H	20.78	0.00	20.76	0.00					255.00	254.80	254.76	254.77	254.73
valle	6.9	Max WS	A TR_200 1H	29.88	0.00	28.74	0.00					255.66	255.23	255.18	255.19	255.15
valle	6.9	Max WS	A TR_200 2H	24.03	0.00	13.13	0.00					255.66	255.39	255.36	255.38	255.38
valle	6.9	Max WS	A TR_200 3H	19.73	0.00	1.36	0.00					255.66	255.45	255.44	255.46	255.46
valle	6.9	Max WS	A TR_200 4H	16.51	0.00	-6.86	0.00					255.66	255.49	255.48	255.50	255.49
valle	6.9	Max WS	A TR_200 6H	14.87	0.00	-10.68	0.00					255.66	255.51	255.50	255.51	255.51
valle	6.9	Max WS	A TR_200 8H	14.91	0.00	-10.43	0.00					255.66	255.51	255.50	255.51	255.50
valle	6.9	Max WS	A TR_200 12H	15.62	0.00	-8.05	0.00					255.66	255.50	255.48	255.50	255.49
valle	6.9	Max WS	A TR_30 1H	23.41	0.00	23.10	0.00					255.66	254.27	254.15	254.11	253.99
valle	6.9	Max WS	A TR_30 2H	29.76	0.00	29.54	0.00					255.66	254.71	254.62	254.61	254.52
valle	6.9	Max WS	A TR_30 3H	31.23	0.00	31.00	0.00					255.66	254.90	254.82	254.83	254.75
valle	6.9	Max WS	A TR_30 4H	31.30	0.00	31.12	0.00					255.66	254.98	254.90	254.91	254.84
valle	6.9	Max WS	A TR_30 6H	28.45	0.00	28.32	0.00					255.66	254.97	254.91	254.92	254.86
valle	6.9	Max WS	A TR_30 8H	25.22	0.00	25.13	0.00					255.66	254.93	254.88	254.88	254.84
valle	6.9	Max WS	A TR_30 12H	20.78	0.00	20.76	0.00					255.66	254.80	254.76	254.77	254.73
valle	5.95	Max WS	A TR_200 1H	28.74	1.75	26.99	1.75		44.72	0.15	0.07	255.00	255.19	255.15	255.16	255.12
valle	5.95	Max WS	A TR_200 2H	13.13	19.90	-7.02	19.90		111.00	0.38	0.21	255.00	255.38	255.38	255.39	255.38
valle	5.95	Max WS	A TR_200 3H	1.36	27.26	-26.44	27.26		111.00	0.46	0.26	255.00	255.46	255.46	255.45	255.42
valle	5.95	Max WS	A TR_200 4H	-6.86	29.78	-35.77	29.78		111.00	0.49	0.28	255.00	255.50	255.49	255.48	255.43
valle	5.95	Max WS	A TR_200 6H	-10.68	30.41	-38.51	30.41		111.00	0.51	0.28	255.00	255.51	255.51	255.49	255.43
valle	5.95	Max WS	A TR_200 8H	-10.43	30.22	-40.09	30.22		111.00	0.50	0.28	255.00	255.51	255.50	255.49	255.43
valle	5.95	Max WS	A TR_200 12H	-8.05	29.51	-38.36	29.51		111.00	0.49	0.28	255.00	255.50	255.49	255.48	255.43
valle	5.95	Max WS	A TR_30 1H	23.10	0.00	22.69	0.00					255.00	254.11	253.99	253.94	253.81
valle	5.95	Max WS	A TR_30 2H	29.54	0.00	29.20	0.00					255.00	254.61	254.52	254.51	254.42
valle	5.95	Max WS	A TR_30 3H	31.00	0.00	30.86	0.00					255.00	254.83	254.75	254.75	254.67
valle	5.95	Max WS	A TR_30 4H	31.12	0.00	30.99	0.00					255.00	254.91	254.84	254.85	254.78
valle	5.95	Max WS	A TR_30 6H	28.32	0.00	28.14	0.00					255.00	254.92	254.86	254.86	254.81
valle	5.95	Max WS	A TR_30 8H	25.13	0.00	25.07	0.00					255.00	254.88	254.84	254.84	254.80
valle	5.95	Max WS	A TR_30 12H	20.76	0.00	20.72	0.00					255.00	254.77	254.73	254.73	254.70
valle	5.9	Max WS	A TR_200 1H	28.74	0.00	26.99	0.00					255.31	255.19	255.15	255.16	255.12
valle	5.9	Max WS	A TR_200 2H	13.13	0.33	-7.02	0.33		23.95	0.07	0.04	255.31	255.38	255.38	255.39	255.38
valle	5.9	Max WS	A TR_200 3H	1.36	0.92	-26.44	0.92		37.12	0.11	0.05	255.31	255.46	255.46	255.45	255.42
valle	5.9	Max WS	A TR_200 4H	-6.86	1.10	-35.77	1.10		40.51	0.12	0.06	255.31	255.50	255.49	255.48	255.43
valle	5.9	Max WS	A TR_200 6H	-10.68	1.13	-38.51	1.13		41.02	0.12	0.06	255.31	255.51	255.51	255.49	255.43
valle	5.9	Max WS	A TR_200 8H	-10.43	1.09	-40.09	1.09		40.46	0.12	0.06	255.31	255.51	255.50	255.49	255.43
valle	5.9	Max WS	A TR_200 12H	-8.05	1.04	-38.36	1.04		39.37	0.12	0.06	255.31	255.50	255.49	255.48	255.43
valle	5.9	Max WS	A TR_30 1H	23.10	0.00	22.69	0.00					255.31	254.11	253.99	253.94	253.81
valle	5.9	Max WS	A TR_30 2H	29.54	0.00	29.20	0.00					255.31	254.61	254.52	254.51	254.42
valle	5.9	Max WS	A TR_30 3H	31.00	0.00	30.86	0.00					255.31	254.83	254.75	254.75	254.67
valle	5.9	Max WS	A TR_30 4H	31.12	0.00	30.99	0.00					255.31	254.91	254.84	254.85	254.78
valle	5.9	Max WS	A TR_30 6H	28.32	0.00	28.14	0.00					255.31	254.92	254.86	254.86	254.81
valle	5.9	Max WS	A TR_30 8H	25.13	0.00	25.07	0.00					255.31	254.88	254.84	254.84	254.80
valle	5.9	Max WS	A TR_30 12H	20.76	0.00	20.72	0.00					255.31	254.77	254.73	254.73	254.70
valle	4.95	Max WS	A TR_200 1H	26.99	0.00	26.99	0.00					255.35	255.16	255.12	255.13	255.10
valle	4.95	Max WS	A TR_200 2H	-7.02	0.02	-9.19	0.02		5.08	0.03	0.02	255.35	255.39	255.38	255.39	255.38
valle	4.95	Max WS	A TR_200 3H	-26.44	0.13	-31.72	0.13		10.42	0.07	0.04	255.35	255.45	255.42	255.46	255.43
valle	4.95	Max WS	A TR_200 4H	-35.77	0.17	-43.59	0.17		11.77	0.08	0.04	255.35	255.48	255.43	255.50	255.44
valle	4.95	Max WS	A TR_200 6H	-38.51	0.18	-48.65	0.18		12.08	0.08	0.04	255.35	255.49	255.43	255.53	255.45
valle	4.95	Max WS	A TR_200 8H	-40.09	0.18	-48.35	0.18		11.92	0.08	0.04	255.35	255.49	255.43	255.52	255.45
valle	4.95	Max WS	A TR_200 12H	-38.36	0.16	-44.89	0.16		11.49	0.08	0.04	255.35	255.48	255.43	255.51	255.44
valle	4.95	Max WS	A TR_30 1H	22.69	0.00	22.33	0.00					255.35	253.94	253.81	253.76	253.67
valle	4.95	Max WS	A TR_30 2H	29.20	0.00	29.07	0.00					255.35	254.51	254.42	254.42	254.35
valle	4.95	Max WS	A TR_30 3H	30.86	0.00	30.78	0.00					255.35	254.75	254.67	254.68	254.62
valle	4.95	Max WS	A TR_30 4H	30.99	0.00	30.90	0.00					255.35	254.85	254.78	254.79	254.73
valle	4.95	Max WS	A TR_30 6H	28.14	0.00	28.10	0.00					255.35	254.86	254.81	254.82	254.77
valle	4.95	Max WS	A TR_30 8H	25.07	0.00	25.05	0.00					255.35	254.84	254.80	254.80	254.77
valle	4.95	Max WS	A TR_30 12H	20.72	0.00	20.70	0.00					255.35	254.73	254.70	254.70	254.68
valle	4.9	Max WS	A TR_200 1H	26.99	0.00	26.99	0.00					255.31	255.16	255.12	255.13	255.10
valle	4.9	Max WS	A TR_200 2H	-7.02	2.35	-9.19	2.35		106.50	0.07	0.05	255.31	255.39	255.38	255.39	255.38
valle	4.9	Max WS	A TR_200 3H	-26.44	5.18	-31.72	5.18		106.50	0.11	0.09	255.31	255.45	255.42	255.46	255.43
valle	4.9	Max WS	A TR_200 4H	-35.77	6.27	-43.59	6.27		106.50	0.12	0.11	255.31	255.48	255.43	255.50	255.44
valle	4.9	Max WS	A TR_200 6H	-38.51	6.63	-48.65	6.63		106.50	0.12	0.11	255.31	255.49	255.43	255.53	255.45
valle	4.9	Max WS	A TR_200 8H	-40.09	6.56	-48.35	6.56		106.50	0.12	0.11	255.31	255.49	255.43	255.52	255.45
valle	4.9	Max WS	A TR_200 12H	-38.36	6.18	-44.89	6.18		106.50	0.12	0.10	255.31	255.48	255.43	255.51	255.44
valle	4.9	Max WS	A TR_30 1H	22.69	0.00	22.33	0.00					255.31	253.94	253.81	253.76	253.67
valle	4.9	Max WS	A TR_30 2H	29.20	0.00	29.07	0.00					255.31	254.51	254.42	254.42	254.35
valle	4.9	Max WS	A TR_30 3H	30.86	0.00	30.78	0.00					255.31	254.75	254.67	254.68	254.62
valle	4.9	Max WS	A TR_30 4H	30.99	0.00	30.90	0.00					255.31	254.85	254.78	254.79	254.73
valle	4.9	Max WS	A TR_30 6H	28.14	0.00	28.10	0.00					255.31	254.86	254.81	254.82	254.77
valle	4.9	Max WS	A TR_30 8H	25.07	0.00	25.05	0.00					255.31	254.84	254.80	254.80	254.77
valle	4.9	Max WS	A TR_30 12H	20.72	0.00	20.70	0.00					255.31	254.73	254.70	254.70	254.68
valle	2.95	Max WS	A TR_200 1H	26.99	0.00	26.98	0.00					256.06	255.11	255.08	255.09	255.09
valle	2.95	Max WS	A TR_200 2H	-9.38	0.00	-19.04	0.00					256.06	255.40	255.39	255.39	255.39
valle	2.95	Max WS	A TR_200 3H	-31.90	0.00	-49.12	0.00					256.06	255.49	255.46	255.49	255.48
valle	2.95	Max WS	A TR_200 4H	-43.88	0.00	-65.00	0.00					256.06	255.54	255.48	255.54	255.53
valle	2.95	Max WS	A TR_200 6H	-48.78	0.00	-71.64	0.00					256.06	255.57	255.49	255.56	255.55
valle	2.95	Max WS	A TR_200 8H	-48.40	0.00	-71.02	0.00					256.06	255.56	255.49	255.56	255.55
valle	2.95	Max WS	A TR_200 12H	-44.92	0.00	-66.16	0.00					256.06	255.55	255.48	255.54	255.53
valle	2.95	Max WS	A TR_30 1H	22.33	0.00	22.34	0.00					256.06	253.76	253.66	253.68	253.68
valle	2.95	Max WS	A TR_30 2H	28.94	0.00	28.96	0.00					256.06	254.36	254.29	254.32	254.31
valle	2.95	Max WS	A TR_30 3H	30.69	0.00	30.71	0.00					256.06	254.63	254.56	254.59	254.59
valle	2.95	Max WS	A TR_30 4H	30.78	0.00	30.83	0.00					256.06	254.74	254.68	254.71	254.70
valle	2.95	Max WS	A TR_30 6H	28.00	0.00	28.04	0.00					256.06	254.79	254.74	254.76	254.75
valle	2.95	Max WS	A TR_30 8H	24.97	0.00	25.00	0.00					256.06	254.78	254.74	254.76	254.75
valle	2.95	Max WS	A TR_30 12H	20.69	0.00	20.68	0.00					256.06	254.68	254.66	254.67	254.67
valle	2.9	Max WS	A TR_200 1H	26.99	0.00	26.98	0.00					255.12	255.11	255.08	255.09	255.09
valle	2.9	Max WS	A TR_200 2H	-9.38	9.93	-19.04	9.93		102.54	0.27	0.14	255.12	255.40	255.39	255.39	255.39
valle	2.9	Max WS	A TR_200 3H	-31.90	17.22	-49.12	17.22		112.48	0.33	0.19	255.12	255.49	255.46	255.49	255.48
valle	2.9	Max WS	A TR_200 4H	-43.88	21.06	-65.00	21.06		116.68	0.36	0.21	255.12	255.54	255.48	255.54	255.53
valle	2.9	Max WS	A TR_200 6H	-48.78	22.79	-71.64	22.79		118.56	0.38	0.22	255.12	255.57	255.49	255.56	255.55
valle	2.9	Max WS	A TR_200 8H	-48.40	22.59	-71.02	22.59		118.35	0.37	0.22	255.12	255.56	255.49	255.56	255.55
valle	2.9	Max WS	A TR_200 12H	-44.92	21.24	-66.16	21.24		116.92	0.36	0.21	255.12	255.55	255.48	255.54	255.53
valle	2.9	Max WS	A TR_30 1H	22.33	0.00	22.34	0.00					255.12	253.76	253.66	253.68	253.68
valle	2.9	Max WS	A TR_30 2H	28.94	0.00	28.96	0.00					255.12	254.36	254.29	254.32	254.31
valle	2.9	Max WS	A TR_30 3H	30.69	0.00	30.71	0.00					255.12	254.63	254.56	254.59	254.59

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)
valle	2.9	Max WS	A TR_30 4H	30.78	0.00	30.83	0.00					255.12	254.74	254.68	254.71	254.70
valle	2.9	Max WS	A TR_30 6H	28.00	0.00	28.04	0.00					255.12	254.79	254.74	254.76	254.75
valle	2.9	Max WS	A TR_30 8H	24.97	0.00	25.00	0.00					255.12	254.78	254.74	254.76	254.75
valle	2.9	Max WS	A TR_30 12H	20.69	0.00	20.68	0.00					255.12	254.68	254.66	254.67	254.67

TORRENTE GALEGNO

1) A TR_200 3H 2) A TR_30 3H

Rigo_Galegno unico

N.B. in grigio sono indicati gli sfioratori laterali in destra idrografica

Legend

- WS Max WS - A TR_200 3H
- WS Max WS - A TR_30 3H
- Ground

Elevation (m)

280
270
260
250
240

03 04 05 06 07 08 09 10 11 12 13 14 16 17 18 19 20 22 23 24 25 26 28 29 30

0 500 1000 1500 2000 2500 3000 3500

Main Channel Distance (m)

1 cm Horiz. = 104 m 1 cm Vert. = 2 m

1) A TR_200 3H 2) A TR_30 3H

Rigo_Galegno unico

N.B. in grigio sono indicati gli sfioratori laterali in sinistra idrografica

Legend

- WS Max WS - A TR_200 3H
- WS Max WS - A TR_30 3H
- Ground

Elevation (m)

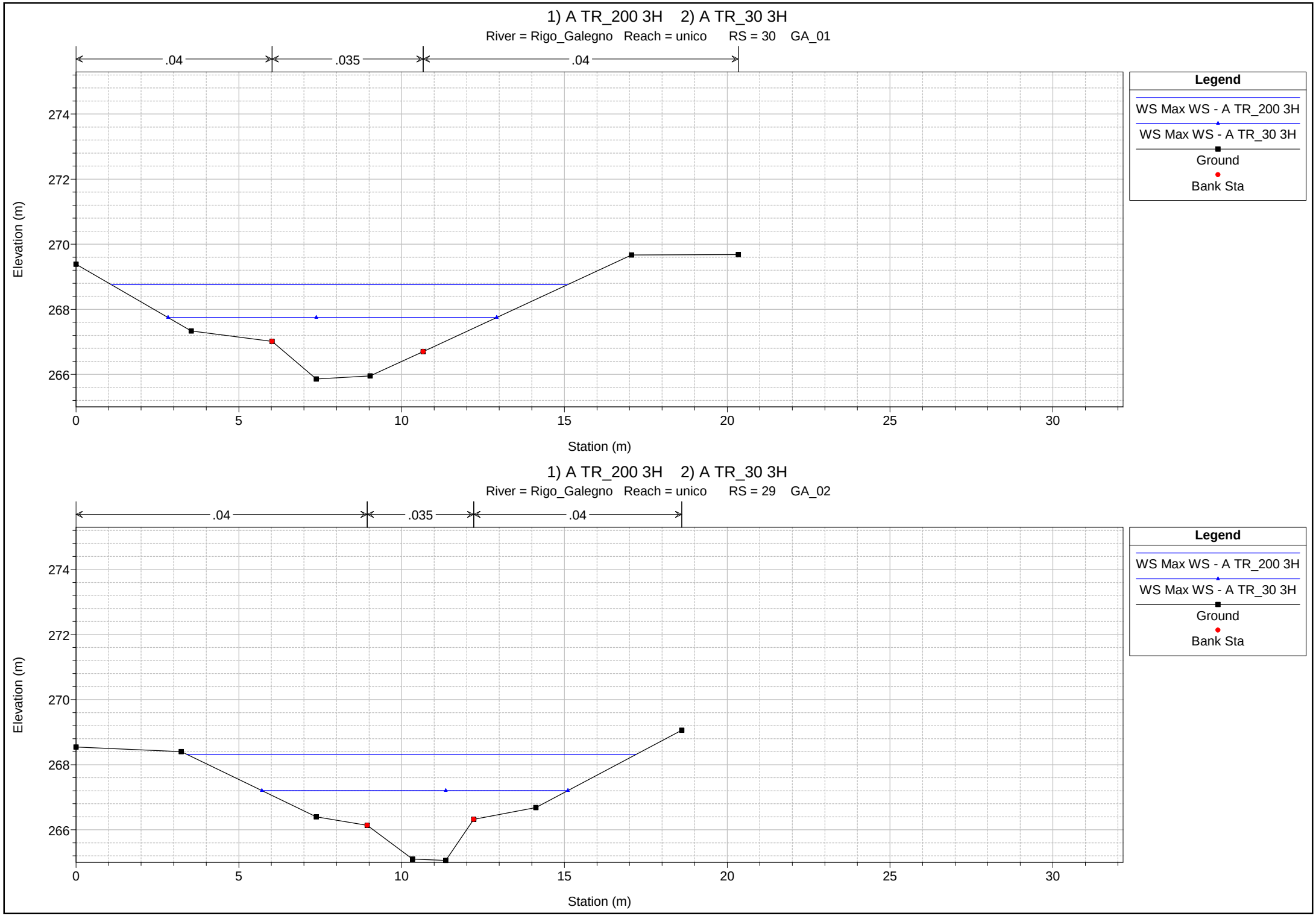
280
270
260
250
240

03 04 05 06 07 08 09 10 11 12 13 14 16 17 18 19 20 22 23 24 25 26 28 29 30

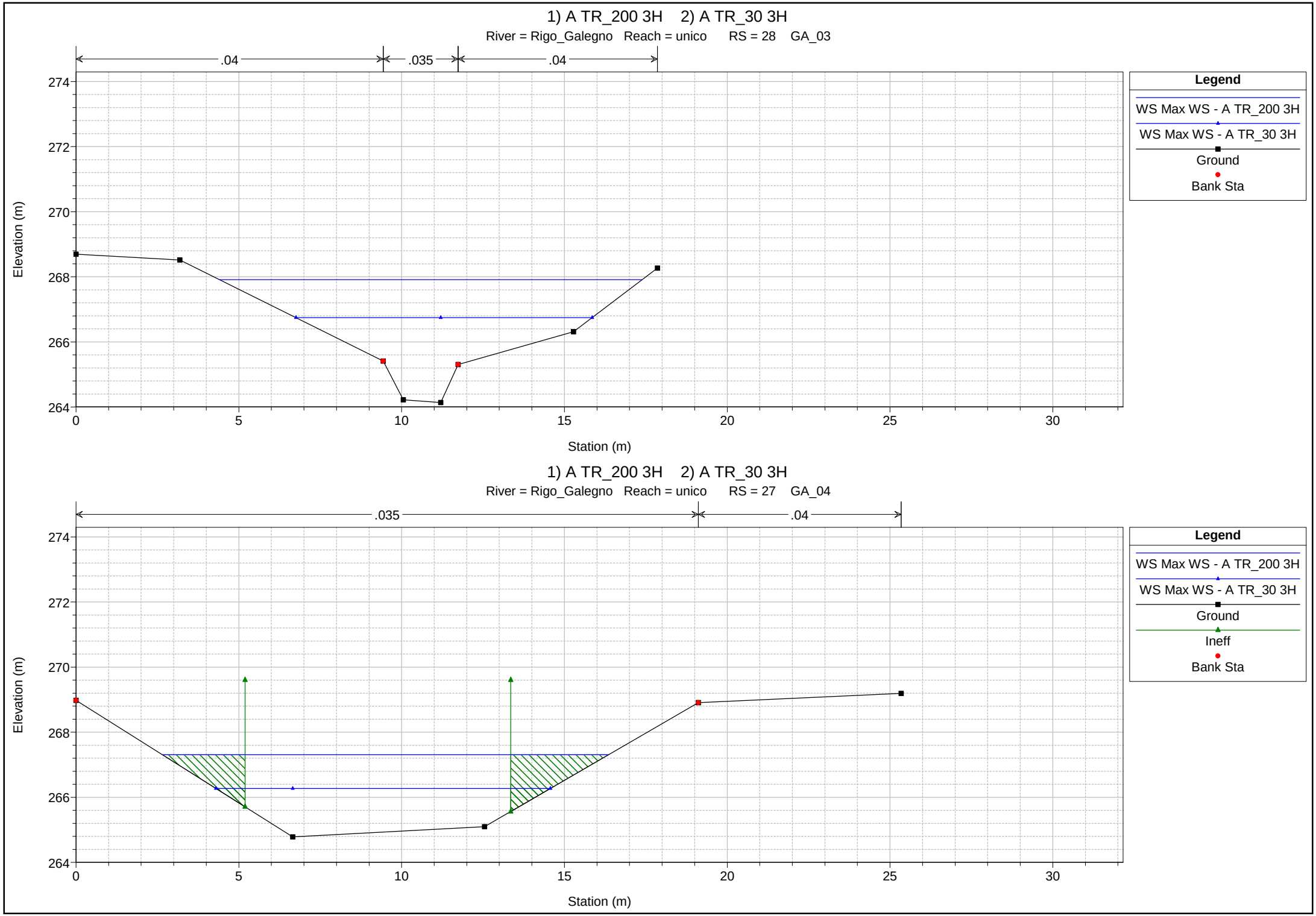
0 500 1000 1500 2000 2500 3000 3500

Main Channel Distance (m)

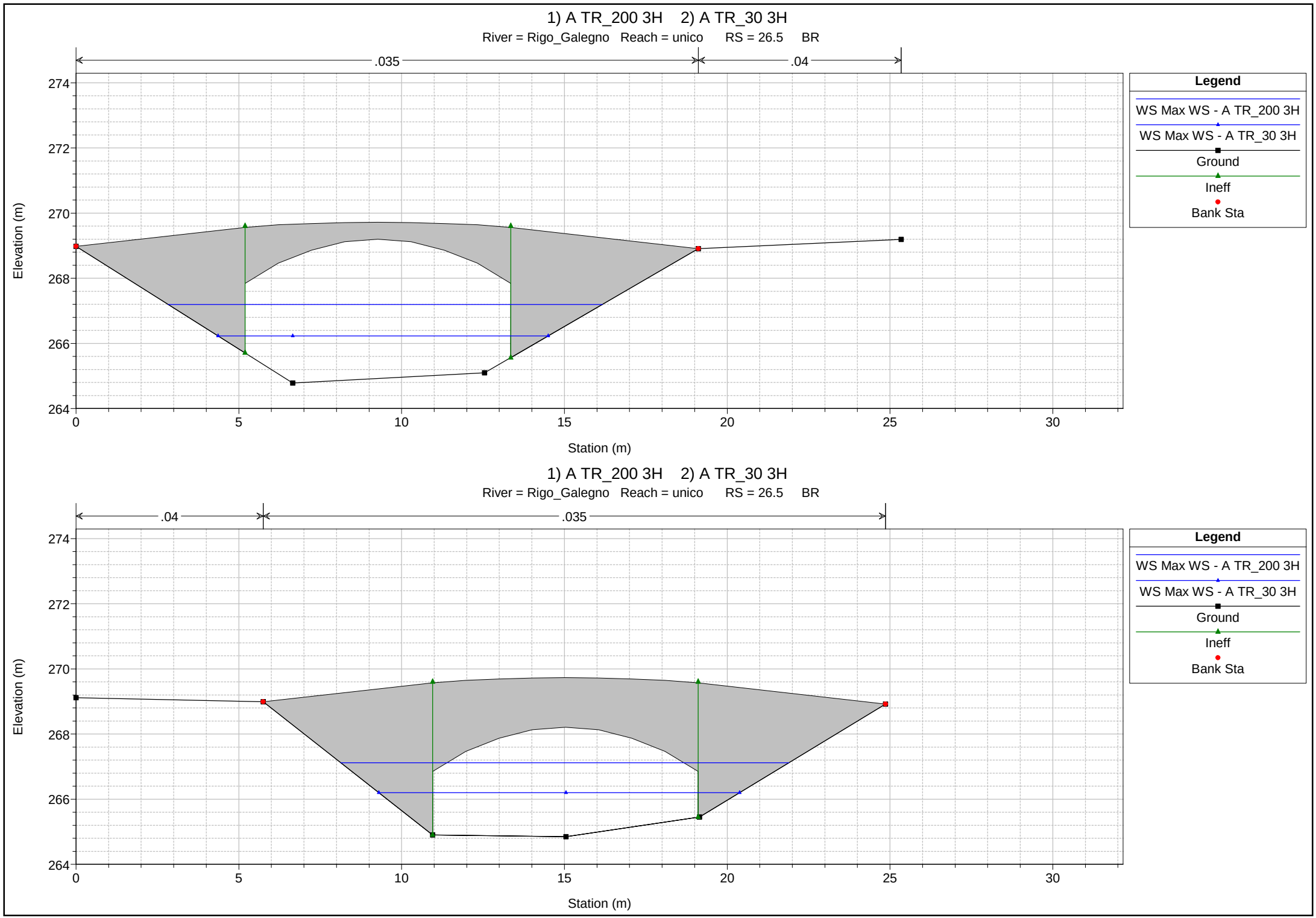
1 cm Horiz. = 104 m 1 cm Vert. = 2 m



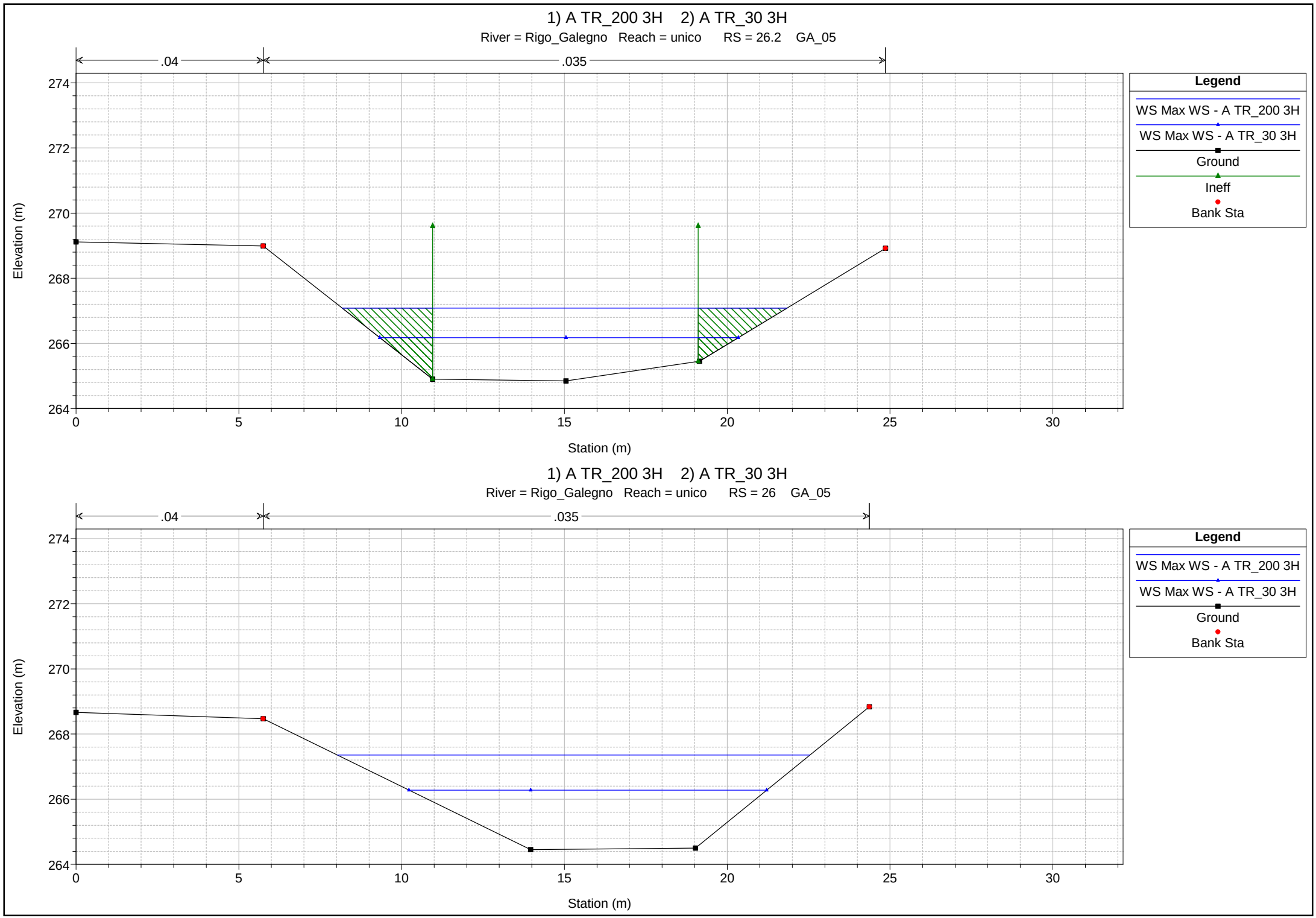
1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m



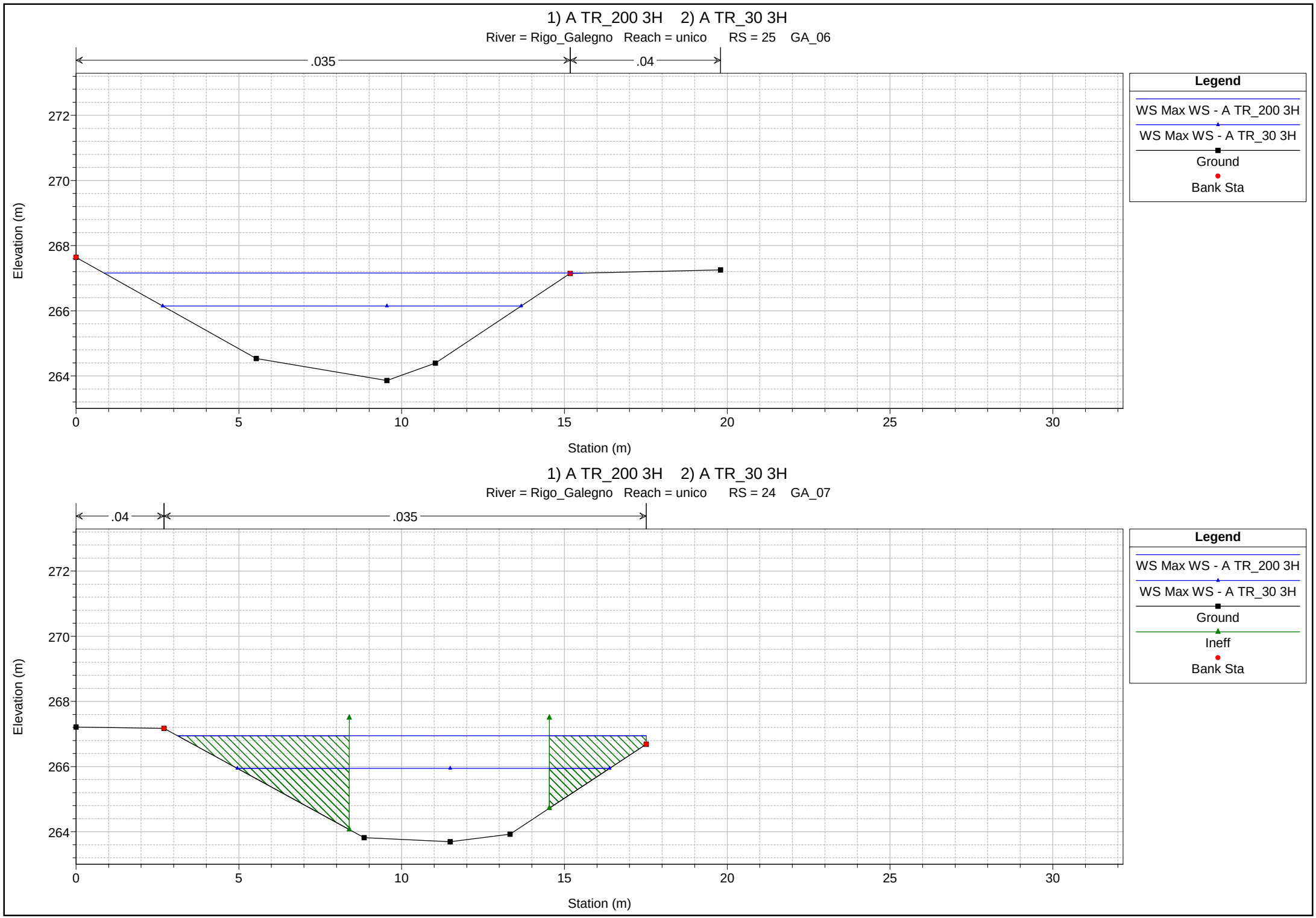
1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m



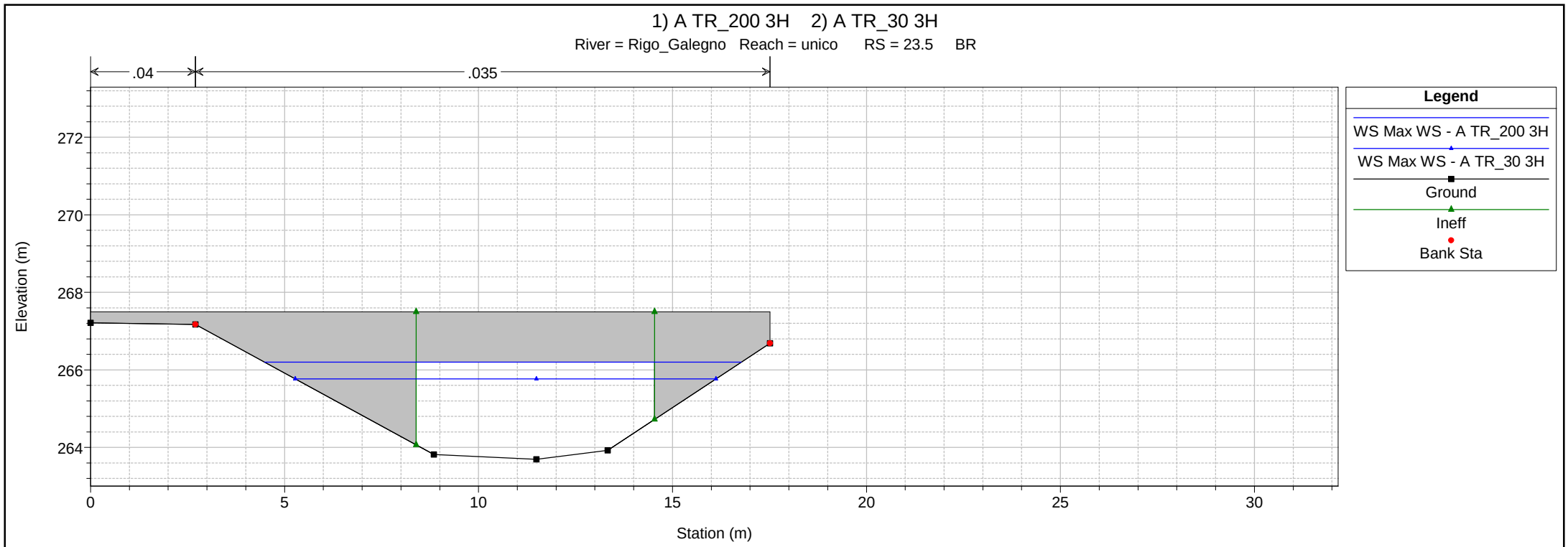
1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m

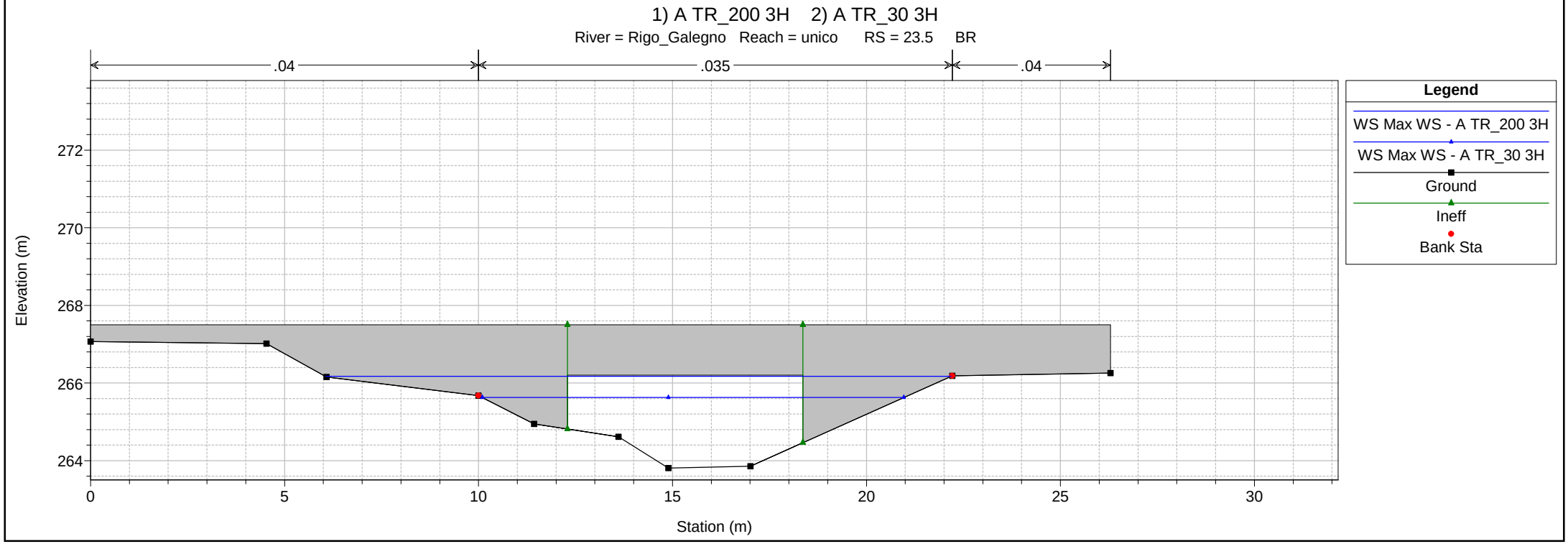


1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m

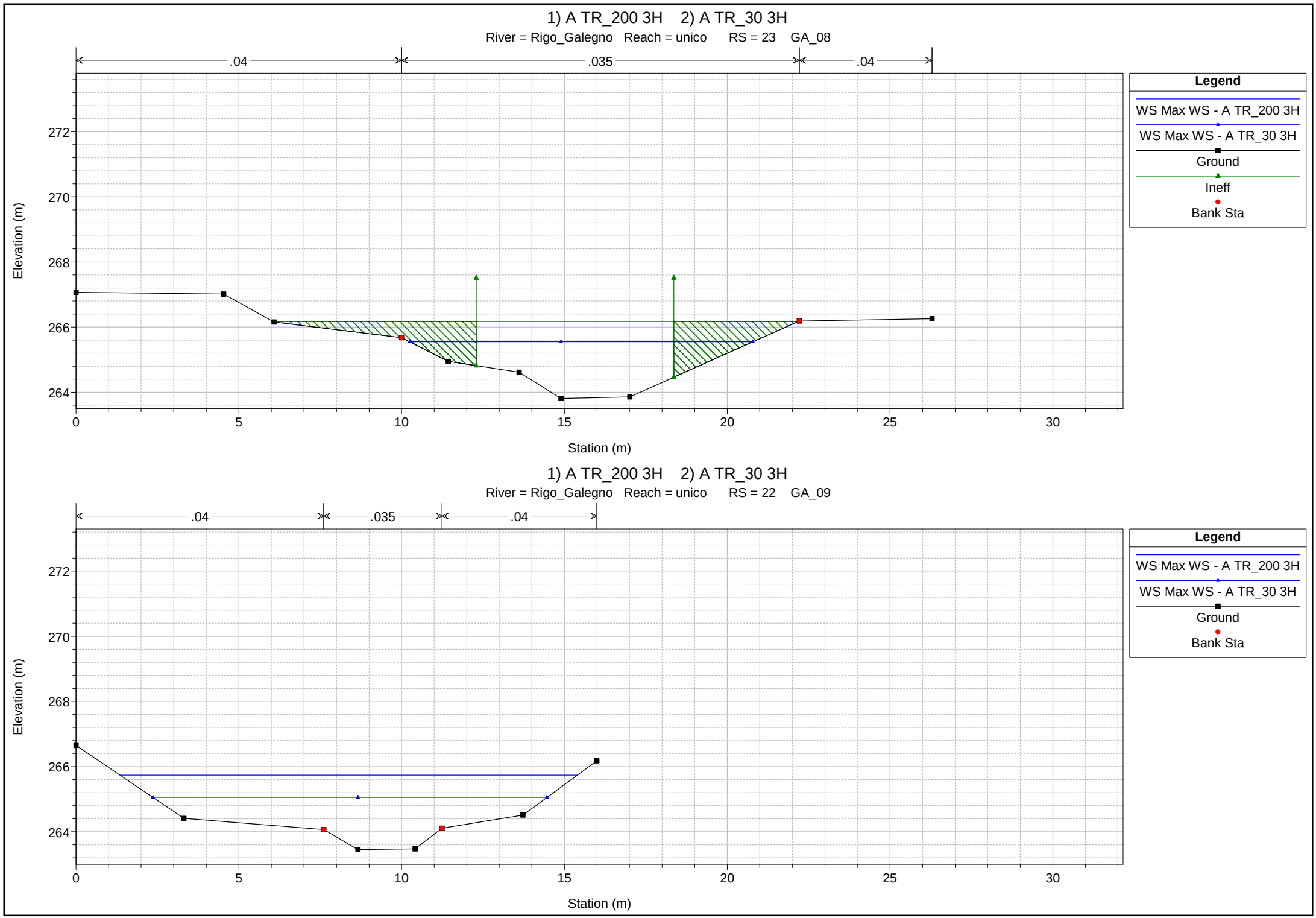


1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m

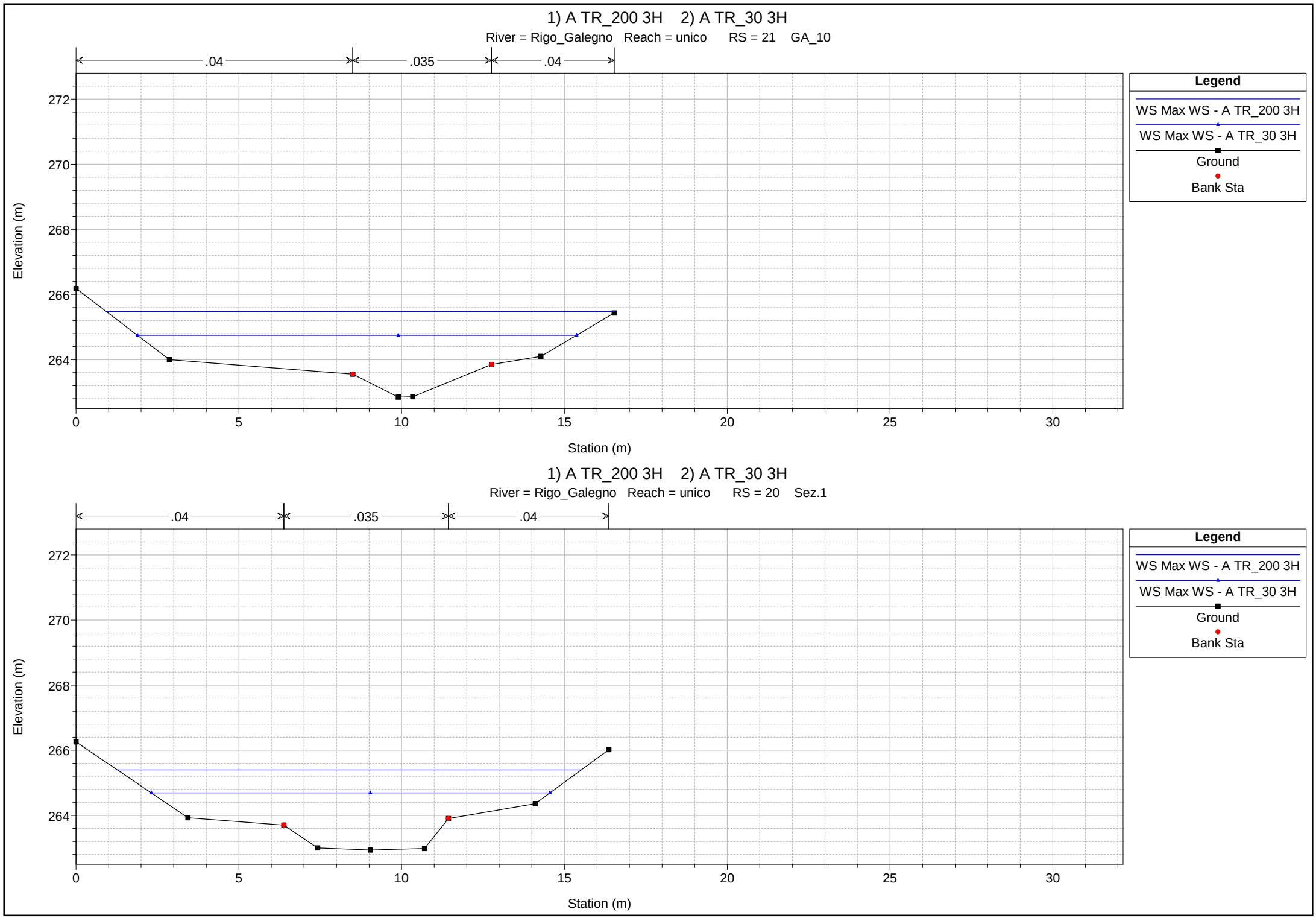




1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m



1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m



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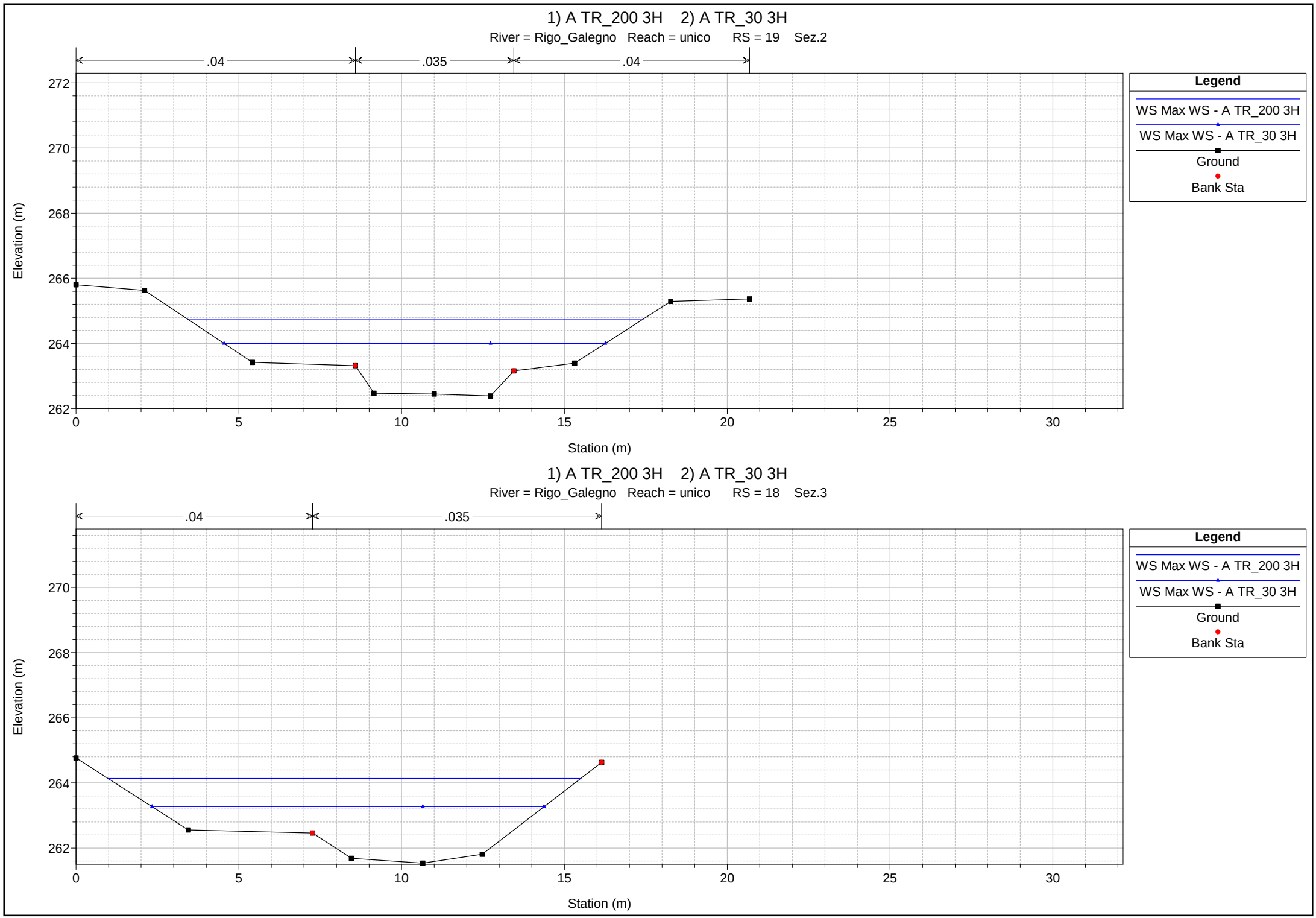
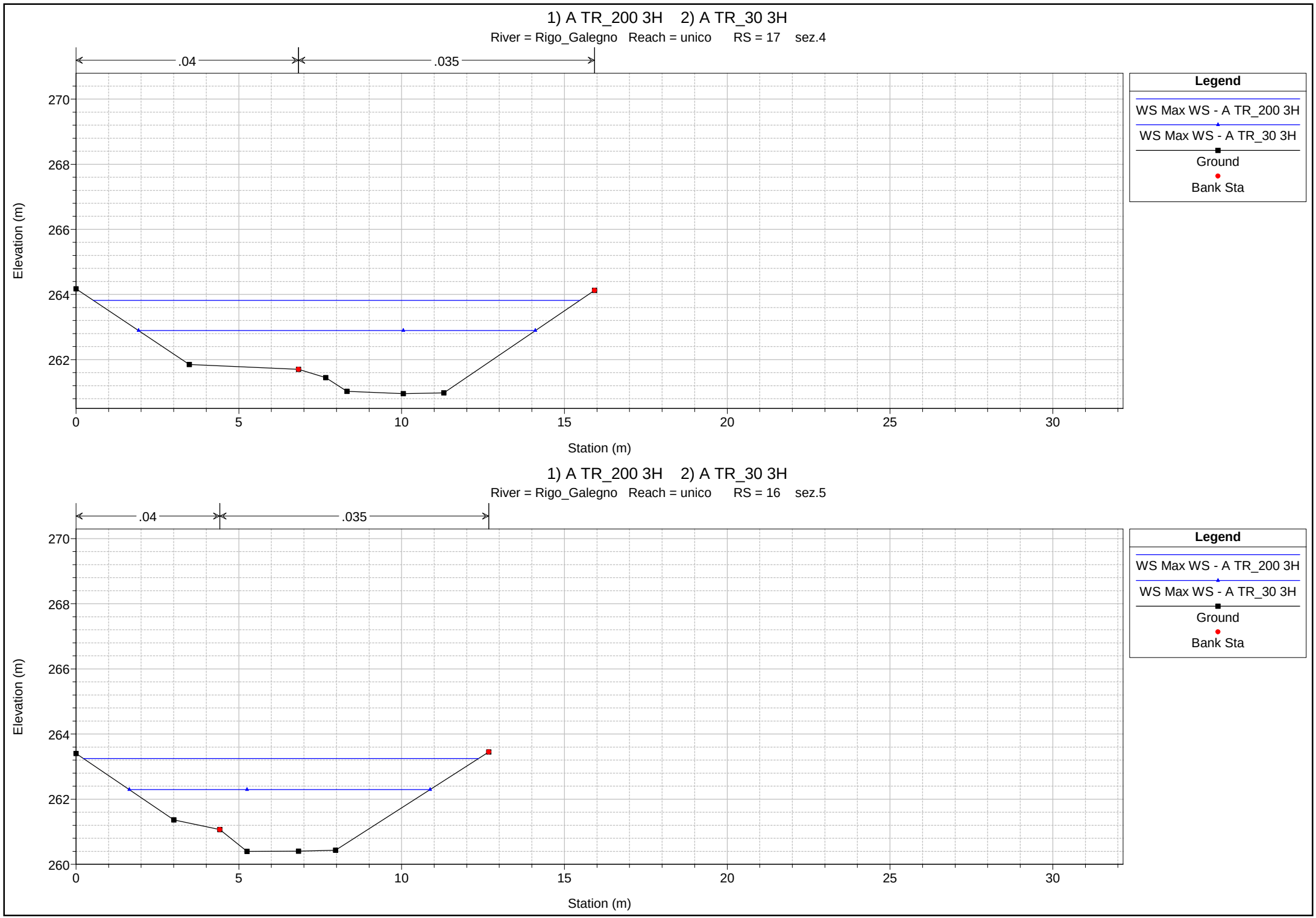


1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m



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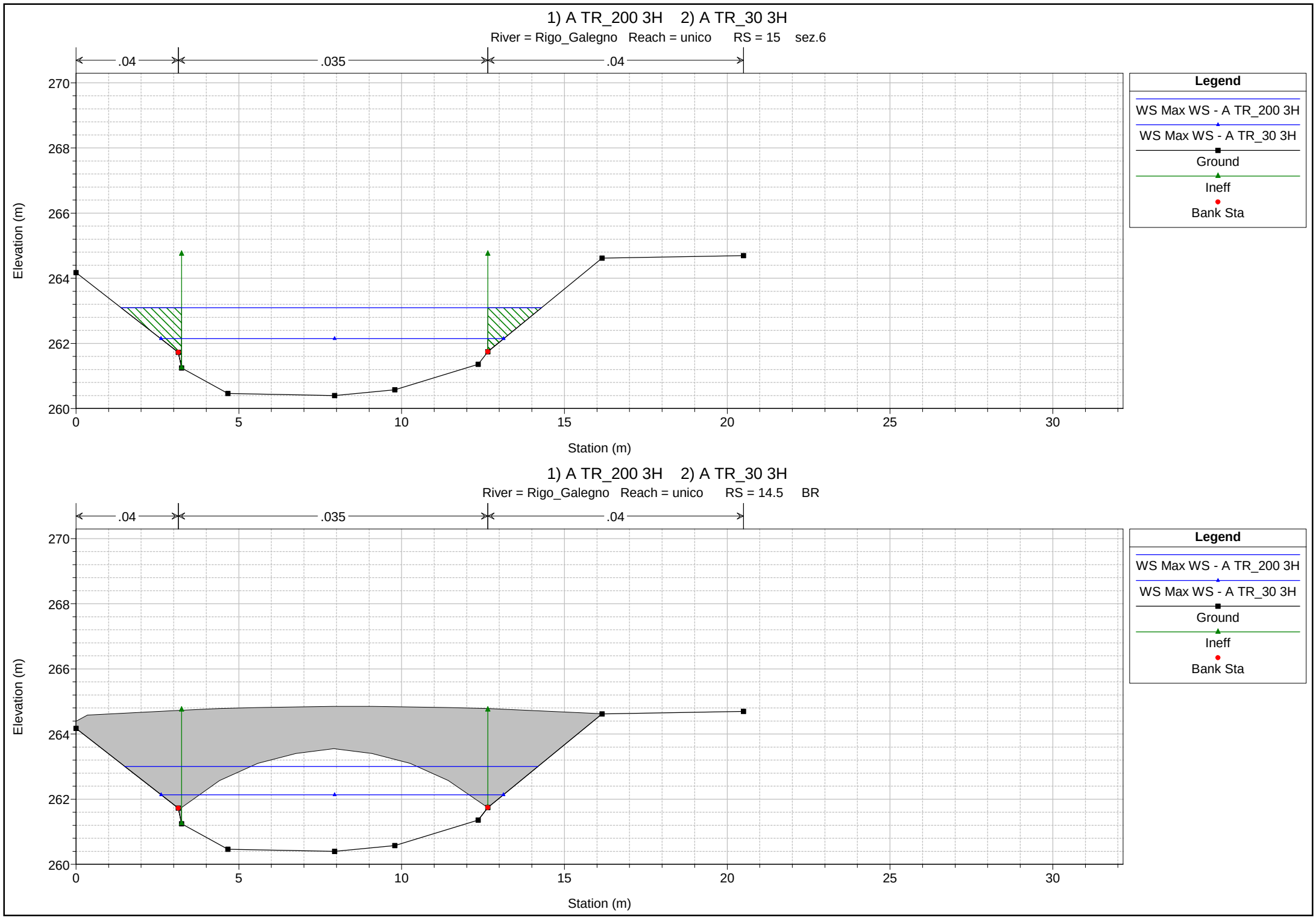

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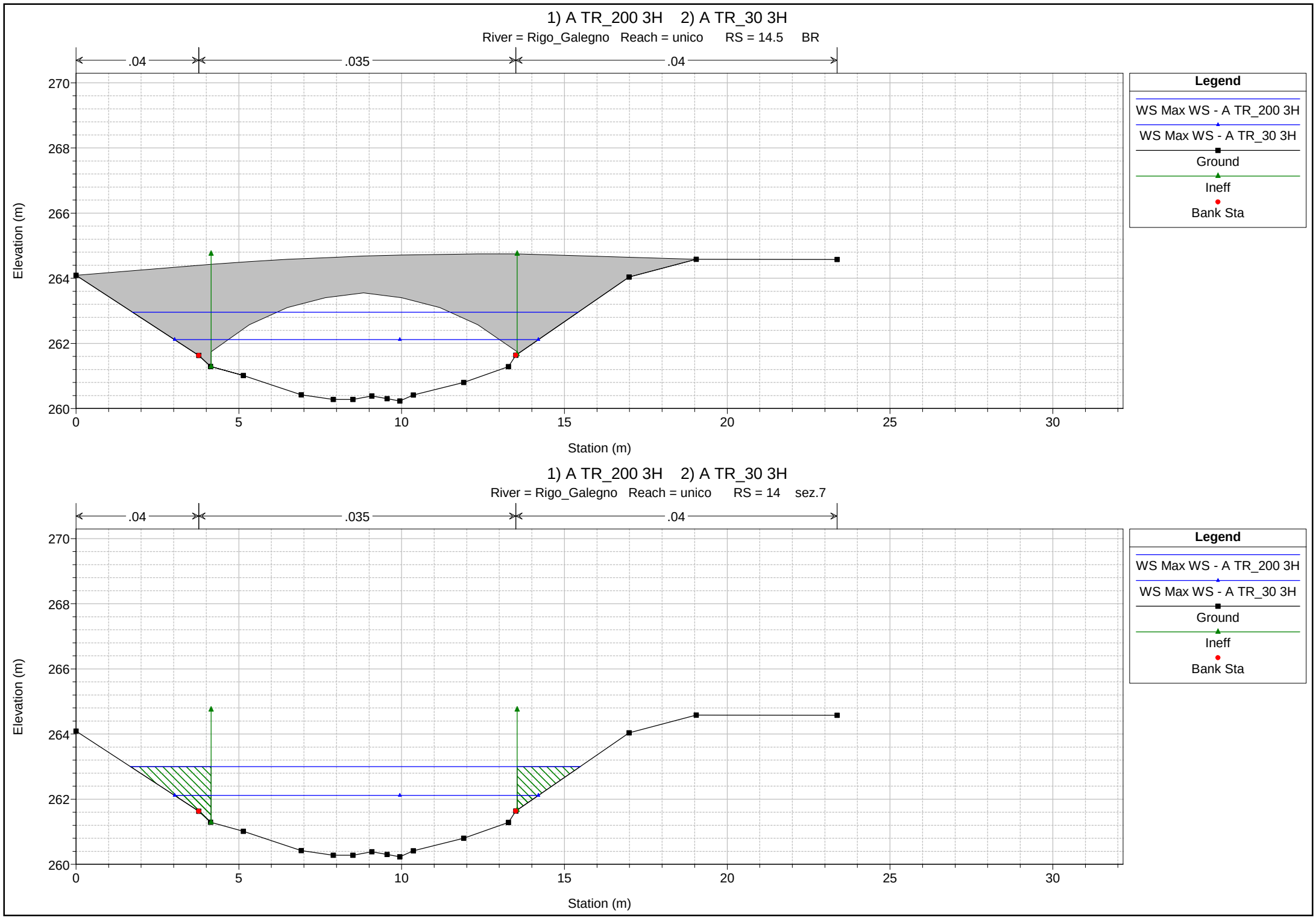
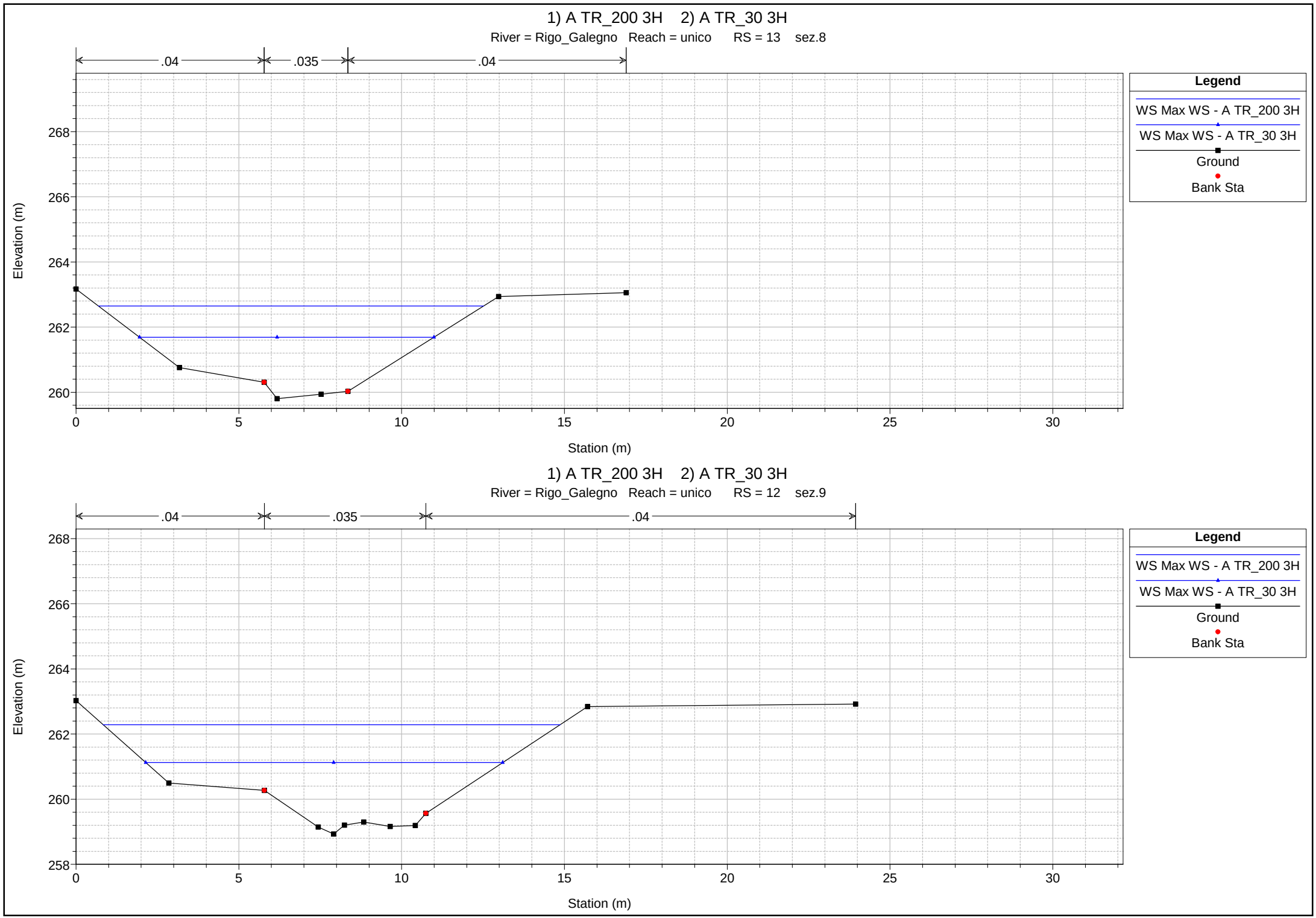
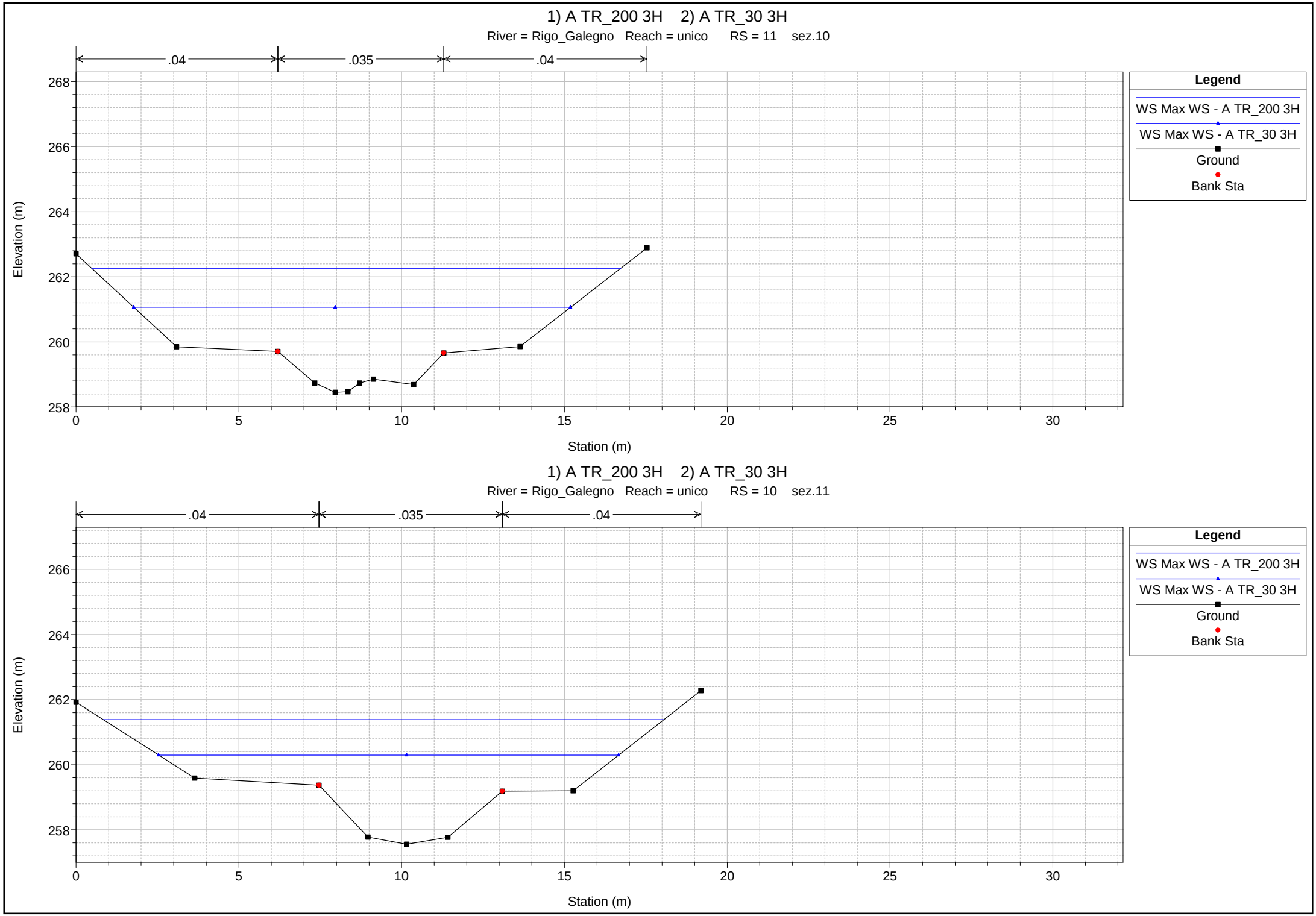


1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m



1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m



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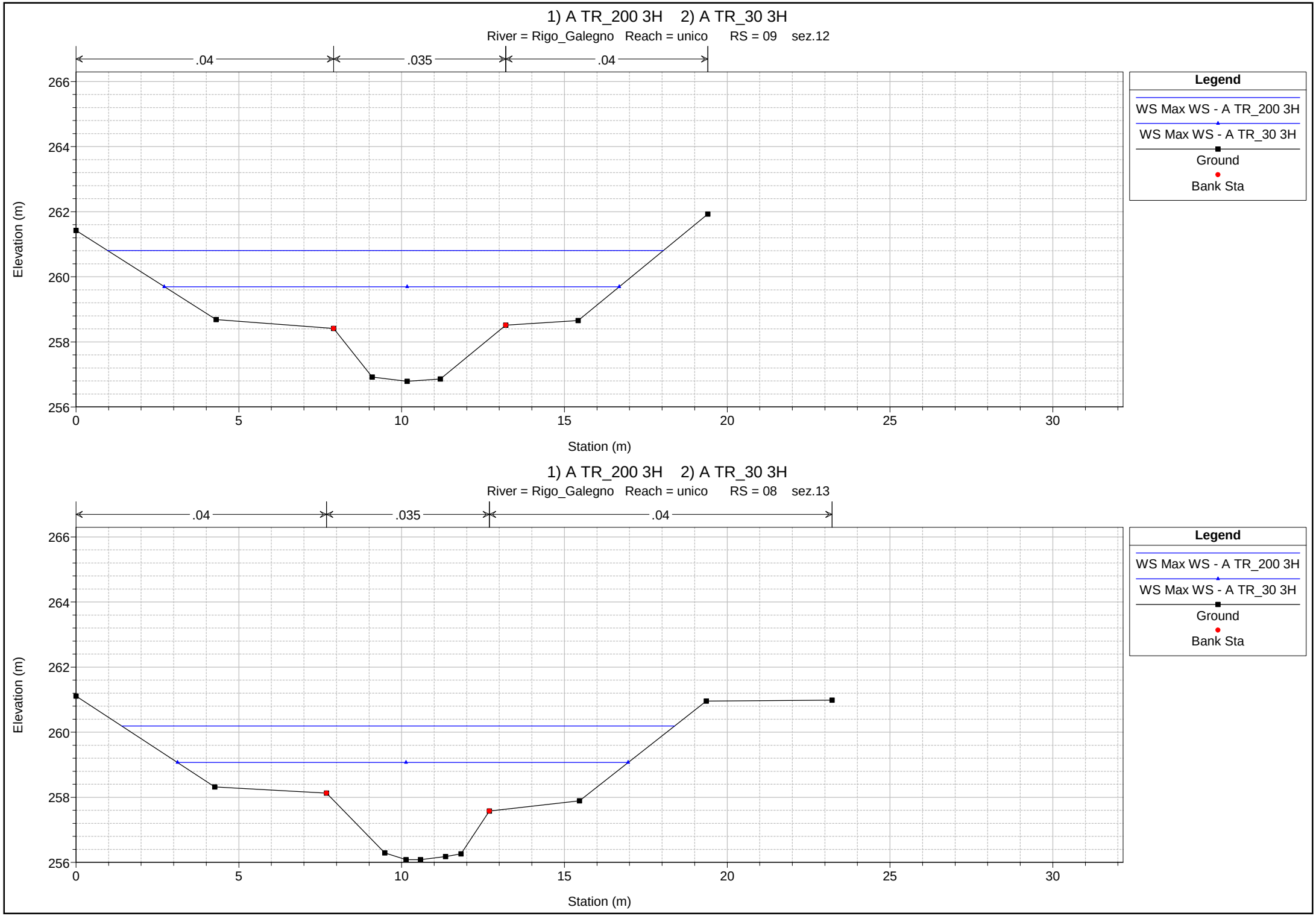
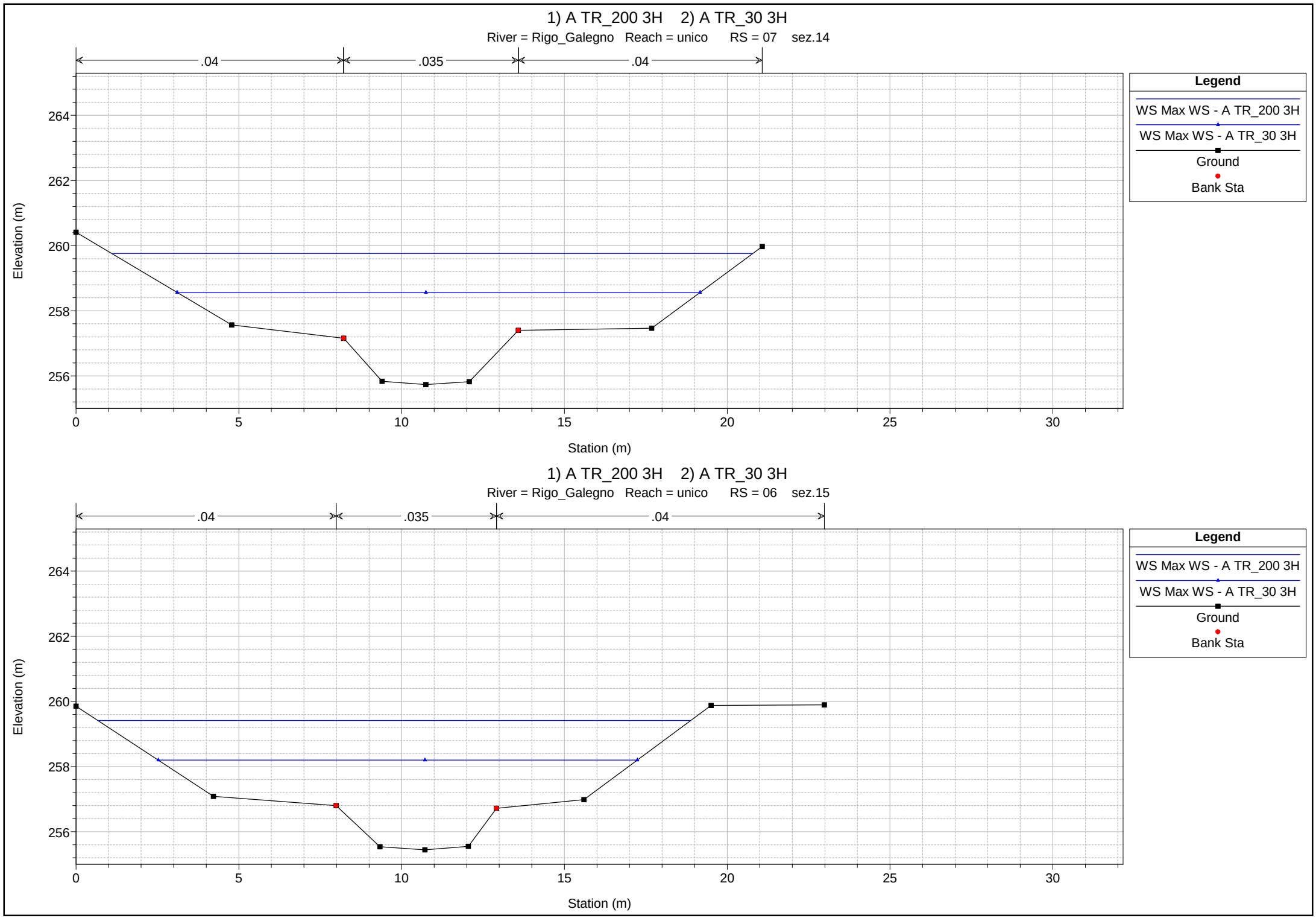


1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m



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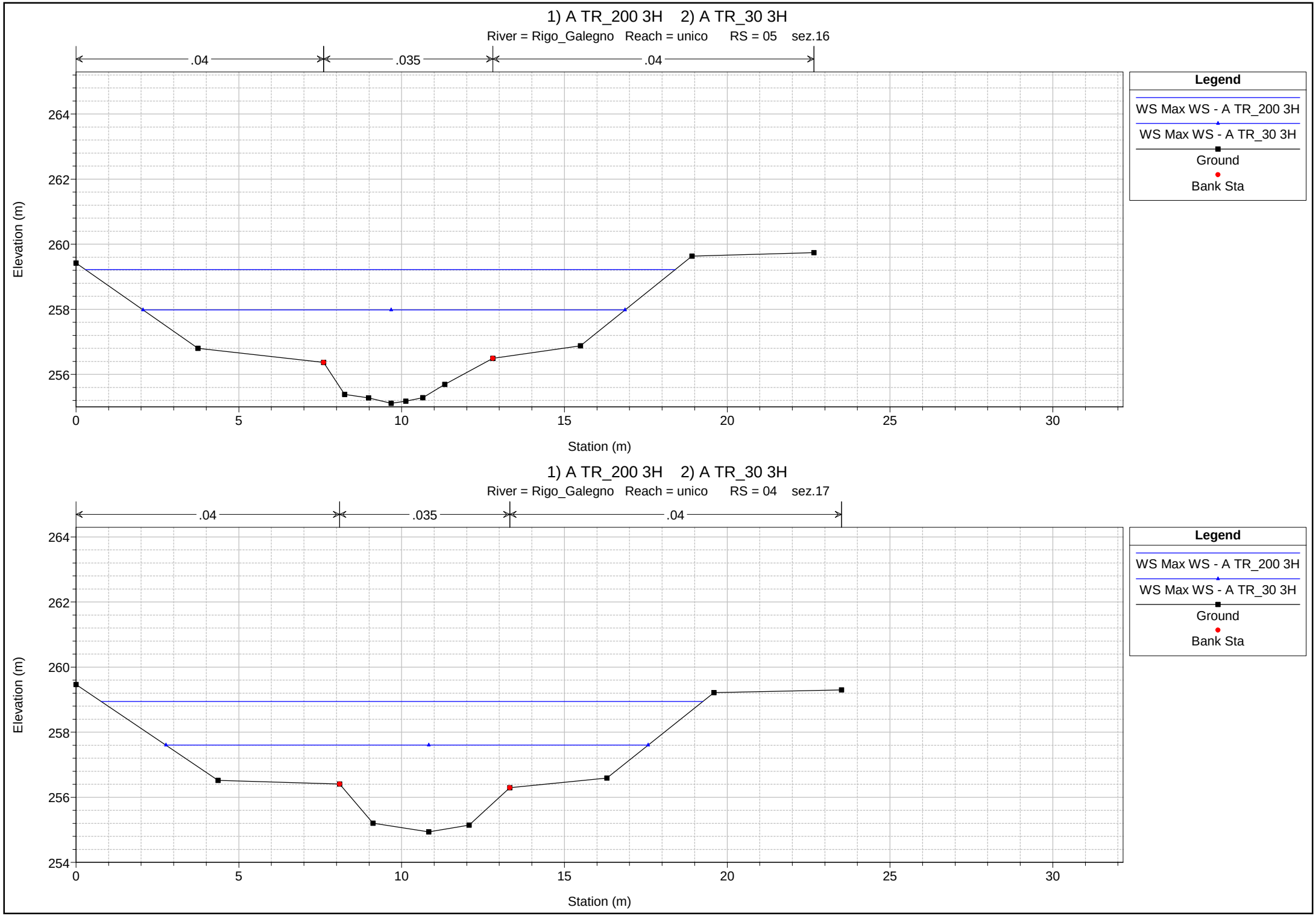
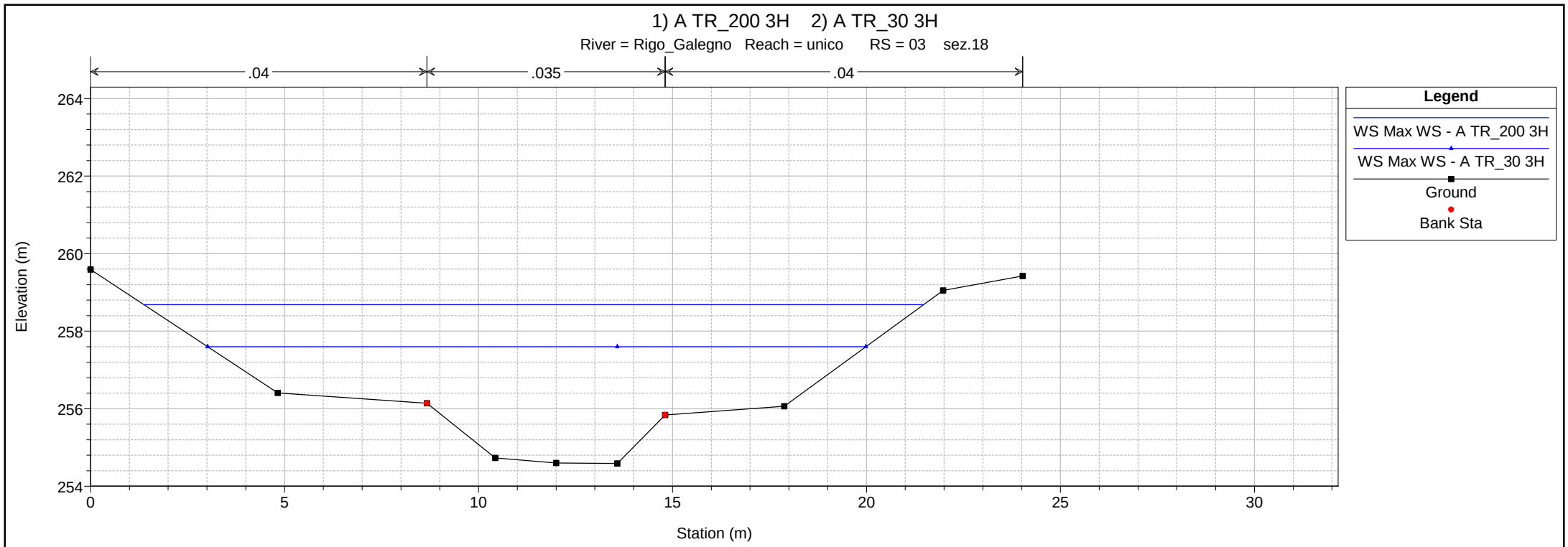
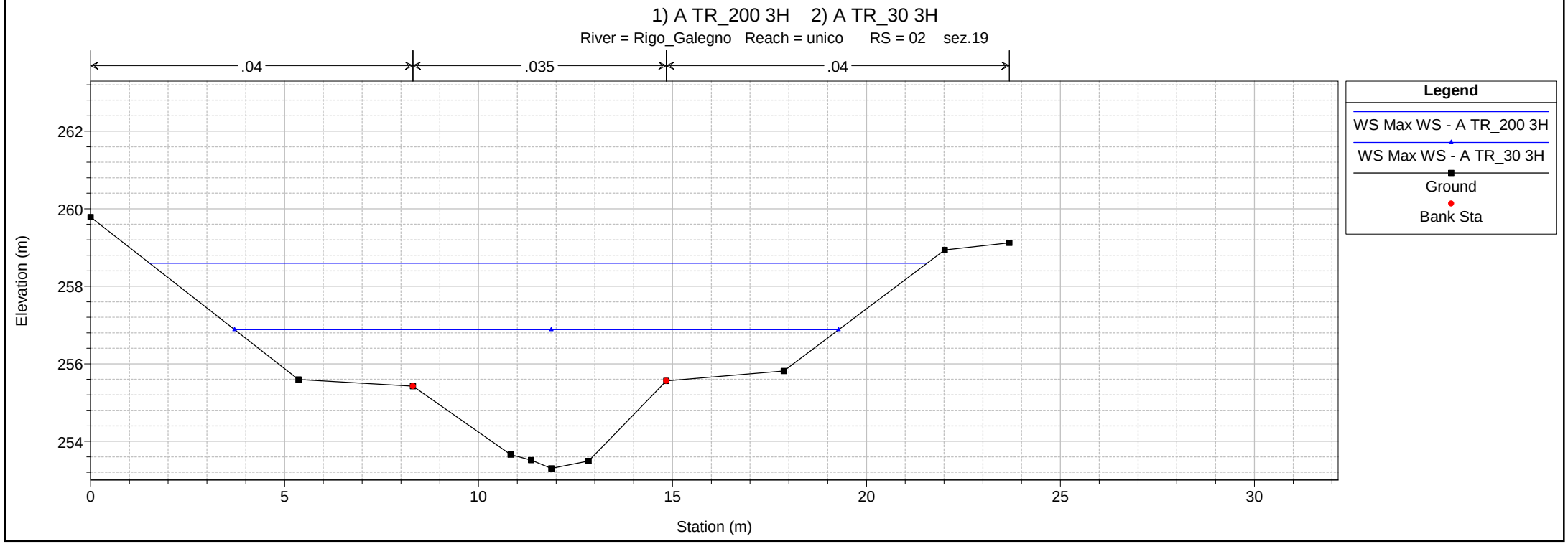


1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m





1 cm Horiz. = 1.4 m 1 cm Vert. = 1.4 m

HEC-RAS River: Rigo_Galegno Reach: unico 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)	
unico	30	Max WS	A TR_200 1H	28.90	265.86	268.06	267.77	268.37	0.004512	2.68	13.27	11.32	0.63
unico	30	Max WS	A TR_200 2H	47.36	265.86	268.57	268.21	268.96	0.004383	3.10	19.55	13.30	0.64
unico	30	Max WS	A TR_200 3H	55.30	265.86	268.76	268.38	269.17	0.004334	3.24	22.09	14.02	0.65
unico	30	Max WS	A TR_200 4H	57.46	265.86	268.81	268.42	269.23	0.004310	3.27	22.79	14.22	0.65
unico	30	Max WS	A TR_200 6H	55.30	265.86	268.76	268.38	269.17	0.004331	3.24	22.09	14.02	0.65
unico	30	Max WS	A TR_200 8H	51.10	265.86	268.66	268.29	269.06	0.004359	3.17	20.75	13.65	0.65
unico	30	Max WS	A TR_200 12H	43.50	265.86	268.48	268.13	268.85	0.004402	3.02	18.29	12.93	0.64
unico	30	Max WS	A TR_30 1H	8.60	265.86	267.20	266.91	267.37	0.004800	1.82	5.01	7.16	0.58
unico	30	Max WS	A TR_30 2H	15.70	265.86	267.58	267.31	267.81	0.004602	2.21	8.25	9.44	0.60
unico	30	Max WS	A TR_30 3H	19.80	265.86	267.75	267.49	268.00	0.004566	2.38	9.89	10.09	0.61
unico	30	Max WS	A TR_30 4H	21.60	265.86	267.82	267.55	268.08	0.004557	2.44	10.59	10.36	0.62
unico	30	Max WS	A TR_30 6H	22.00	265.86	267.83	267.56	268.10	0.004554	2.46	10.74	10.41	0.62
unico	30	Max WS	A TR_30 8H	21.00	265.86	267.79	267.53	268.06	0.004571	2.42	10.35	10.27	0.61
unico	30	Max WS	A TR_30 12H	18.30	265.86	267.69	267.43	267.93	0.004584	2.32	9.30	9.86	0.61
unico	29	Max WS	A TR_200 1H	28.89	265.06	267.58	267.28	267.89	0.005156	2.82	13.17	10.86	0.62
unico	29	Max WS	A TR_200 2H	47.35	265.06	268.12	267.73	268.49	0.004894	3.19	19.62	13.00	0.63
unico	29	Max WS	A TR_200 3H	55.29	265.06	268.32	267.90	268.71	0.004768	3.31	22.31	13.79	0.63
unico	29	Max WS	A TR_200 4H	57.45	265.06	268.37	267.94	268.77	0.004718	3.34	23.06	14.01	0.62
unico	29	Max WS	A TR_200 6H	55.30	265.06	268.32	267.90	268.71	0.004765	3.31	22.32	13.80	0.63
unico	29	Max WS	A TR_200 8H	51.10	265.06	268.21	267.81	268.60	0.004842	3.25	20.88	13.38	0.63
unico	29	Max WS	A TR_200 12H	43.49	265.06	268.02	267.65	268.38	0.004932	3.13	18.33	12.60	0.63
unico	29	Max WS	A TR_30 1H	8.60	265.06	266.64	266.42	266.84	0.006127	2.07	4.71	6.98	0.61
unico	29	Max WS	A TR_30 2H	15.70	265.06	267.02	266.83	267.29	0.005923	2.46	7.78	8.68	0.63
unico	29	Max WS	A TR_30 3H	19.79	265.06	267.21	266.99	267.49	0.005755	2.62	9.42	9.40	0.63
unico	29	Max WS	A TR_30 4H	21.60	265.06	267.28	267.06	267.57	0.005677	2.67	10.14	9.70	0.63
unico	29	Max WS	A TR_30 6H	21.99	265.06	267.30	267.07	267.59	0.005666	2.68	10.29	9.76	0.63
unico	29	Max WS	A TR_30 8H	20.99	265.06	267.26	267.04	267.55	0.005701	2.65	9.90	9.60	0.63
unico	29	Max WS	A TR_30 12H	18.30	265.06	267.14	266.94	267.42	0.005804	2.56	8.84	9.15	0.63
unico	28.99			Lat Struct									
unico	28.97			Lat Struct									
unico	28	Max WS	A TR_200 1H	28.00	264.14	267.16	266.66	267.39	0.003939	2.49	14.55	10.49	0.48
unico	28	Max WS	A TR_200 2H	47.35	264.14	267.71	267.15	268.02	0.004406	2.98	20.78	12.31	0.53
unico	28	Max WS	A TR_200 3H	55.28	264.14	267.91	267.31	268.25	0.004413	3.11	23.36	12.98	0.53
unico	28	Max WS	A TR_200 4H	57.45	264.14	267.97	267.36	268.31	0.004379	3.13	24.12	13.18	0.53
unico	28	Max WS	A TR_200 6H	55.30	264.14	267.91	267.31	268.25	0.004410	3.11	23.37	12.99	0.53
unico	28	Max WS	A TR_200 8H	51.10	264.14	267.80	267.22	268.13	0.004435	3.05	21.96	12.62	0.53
unico	28	Max WS	A TR_200 12H	43.49	264.14	267.62	267.06	267.91	0.004317	2.89	19.64	11.99	0.52
unico	28	Max WS	A TR_30 1H	8.60	264.14	266.19	265.69	266.33	0.003608	1.77	5.94	6.99	0.43
unico	28	Max WS	A TR_30 2H	15.70	264.14	266.57	266.20	266.77	0.004466	2.24	8.88	8.50	0.50
unico	28	Max WS	A TR_30 3H	19.78	264.14	266.74	266.39	266.97	0.004653	2.42	10.46	9.10	0.51
unico	28	Max WS	A TR_30 4H	21.60	264.14	266.82	266.46	267.06	0.004680	2.48	11.16	9.35	0.52
unico	28	Max WS	A TR_30 6H	21.98	264.14	266.84	266.47	267.07	0.004684	2.49	11.31	9.41	0.52
unico	28	Max WS	A TR_30 8H	20.98	264.14	266.80	266.44	267.03	0.004675	2.46	10.92	9.27	0.52
unico	28	Max WS	A TR_30 12H	18.30	264.14	266.68	266.34	266.90	0.004598	2.36	9.89	8.89	0.51
unico	27	Max WS	A TR_200 1H	27.04	264.78	266.82	266.07	266.99	0.002073	1.85	14.58	12.09	0.44
unico	27	Max WS	A TR_200 2H	47.35	264.78	267.18	266.54	267.55	0.003448	2.70	17.51	13.27	0.59
unico	27	Max WS	A TR_200 3H	55.27	264.78	267.30	266.70	267.76	0.003876	2.98	18.55	13.70	0.63
unico	27	Max WS	A TR_200 4H	57.45	264.78	267.35	266.75	267.82	0.003912	3.03	18.94	13.85	0.64
unico	27	Max WS	A TR_200 6H	55.30	264.78	267.31	266.70	267.76	0.003876	2.98	18.56	13.70	0.63
unico	27	Max WS	A TR_200 8H	51.10	264.78	267.23	266.62	267.64	0.003706	2.85	17.94	13.45	0.61
unico	27	Max WS	A TR_200 12H	43.48	264.78	267.13	266.46	267.46	0.003105	2.53	17.17	13.14	0.56
unico	27	Max WS	A TR_30 1H	8.59	264.78	265.80	265.50	265.90	0.003420	1.36	6.30	8.73	0.49
unico	27	Max WS	A TR_30 2H	15.70	264.78	266.09	265.75	266.26	0.003986	1.82	8.65	9.68	0.56
unico	27	Max WS	A TR_30 3H	19.77	264.78	266.27	265.88	266.46	0.003762	1.96	10.10	10.27	0.56
unico	27	Max WS	A TR_30 4H	21.59	264.78	266.35	265.93	266.55	0.003628	2.01	10.77	10.54	0.56
unico	27	Max WS	A TR_30 6H	21.97	264.78	266.37	265.93	266.57	0.003590	2.01	10.91	10.60	0.56
unico	27	Max WS	A TR_30 8H	20.97	264.78	266.32	265.91	266.52	0.003691	1.99	10.53	10.44	0.56
unico	27	Max WS	A TR_30 12H	18.30	264.78	266.20	265.83	266.39	0.003876	1.91	9.56	10.05	0.56
unico	26.5			Bridge									
unico	26.2	Max WS	A TR_200 1H	27.17	264.85	266.79	266.06	266.96	0.002021	1.88	14.48	12.79	0.45
unico	26.2	Max WS	A TR_200 2H	47.26	264.85	267.07	266.52	267.47	0.003745	2.82	16.78	13.61	0.63
unico	26.2	Max WS	A TR_200 3H	55.27	264.85	267.08	266.68	267.63	0.004972	3.27	16.93	13.67	0.72
unico	26.2	Max WS	A TR_200 4H	57.40	264.85	267.09	266.72	267.67	0.005285	3.38	17.00	13.69	0.75
unico	26.2	Max WS	A TR_200 6H	55.23	264.85	267.08	266.69	267.63	0.004964	3.26	16.93	13.67	0.72
unico	26.2	Max WS	A TR_200 8H	51.06	264.85	267.07	266.60	267.54	0.004321	3.03	16.84	13.64	0.67
unico	26.2	Max WS	A TR_200 12H	43.48	264.85	267.05	266.44	267.40	0.003246	2.61	16.66	13.57	0.58
unico	26.2	Max WS	A TR_30 1H	8.60	264.85	265.56	265.50	265.75	0.009989	1.91	4.50	9.22	0.82
unico	26.2	Max WS	A TR_30 2H	15.69	264.85	265.95	265.73	266.16	0.005595	2.04	7.67	10.36	0.67
unico	26.2	Max WS	A TR_30 3H	19.74	264.85	266.17	265.85	266.39	0.004357	2.08	9.50	11.01	0.62
unico	26.2	Max WS	A TR_30 4H	21.58	264.85	266.27	265.91	266.49	0.003999	2.10	10.28	11.29	0.60
unico	26.2	Max WS	A TR_30 6H	21.96	264.85	266.29	265.92	266.51	0.003933	2.10	10.44	11.35	0.59
unico	26.2	Max WS	A TR_30 8H	20.95	264.85	266.24	265.89	266.46	0.004115	2.09	10.01	11.20	0.60
unico	26.2	Max WS	A TR_30 12H	18.30	264.85	266.10	265.81	266.31	0.004701	2.06	8.87	10.79	0.63
unico	26	Max WS	A TR_200 1H	27.16	264.45	266.85	265.71	266.94	0.001155	1.27	21.37	12.87	0.31
unico	26	Max WS	A TR_200 2H	47.32	264.45	267.28	266.18	267.43	0.001827	1.74	27.14	14.26	0.40
unico	26	Max WS	A TR_200 3H	55.27	264.45	267.35	266.34	267.55	0.002248	1.96	28.19	14.50	0.45
unico	26	Max WS	A TR_200 4H	57.42	264.45	267.37	266.38	267.58	0.002363	2.02	28.46	14.57	0.46
unico	26	Max WS	A TR_200 6H	55.30	264.45	267.35	266.34	267.55	0.002250	1.96	28.19	14.50	0.45
unico	26	Max WS	A TR_200 8H	51.10	264.45	267.32	266.26	267.49	0.002025	1.85	27.65	14.38	0.43
unico	26	Max WS	A TR_200 12H	43.49	264.45	267.24	266.11	267.37	0.001644	1.64	26.51	14.12	0.38
unico	26	Max WS	A TR_30 1H	8.60	264.45	265.58	265.10	265.65	0.002048	1.13	7.62	8.70	0.38
unico	26	Max WS	A TR_30 2H	15.70	264.45	266.05	265.37	266.14	0.001871	1.30	12.06	10.24	0.38
unico	26	Max WS	A TR_30 3H	19.75	264.45	266.28	265.50	266.37	0.001775	1.36	14.50	10.99	0.38

HEC-RAS River: Rigo_Galegno Reach: unico 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)	
unico	26	Max WS	A TR_30 4H	21.58	264.45	266.38	265.56	266.47	0.001733	1.38	15.60	11.31	0.38
unico	26	Max WS	A TR_30 6H	21.96	264.45	266.40	265.57	266.50	0.001723	1.39	15.83	11.38	0.38
unico	26	Max WS	A TR_30 8H	20.96	264.45	266.34	265.54	266.44	0.001748	1.38	15.22	11.20	0.38
unico	26	Max WS	A TR_30 12H	18.30	264.45	266.20	265.46	266.29	0.001807	1.34	13.63	10.73	0.38
unico	25.98			Lat Struct									
unico	25.97			Lat Struct									
unico	25	Max WS	A TR_200 1H	25.17	263.86	266.78	265.41	266.84	0.000784	1.09	23.12	13.10	0.26
unico	25	Max WS	A TR_200 2H	47.35	263.86	267.13	265.95	267.28	0.001664	1.70	27.92	14.25	0.39
unico	25	Max WS	A TR_200 3H	55.27	263.86	267.16	266.11	267.35	0.002192	1.96	28.26	14.71	0.44
unico	25	Max WS	A TR_200 4H	57.40	263.86	267.16	266.15	267.37	0.002352	2.03	28.31	14.86	0.46
unico	25	Max WS	A TR_200 6H	55.29	263.86	267.16	266.10	267.35	0.002193	1.96	28.26	14.71	0.44
unico	25	Max WS	A TR_200 8H	51.10	263.86	267.15	266.03	267.32	0.001901	1.82	28.12	14.30	0.41
unico	25	Max WS	A TR_200 12H	43.48	263.86	267.11	265.87	267.24	0.001454	1.58	27.56	14.17	0.36
unico	25	Max WS	A TR_30 1H	8.59	263.86	265.44	264.81	265.49	0.001447	1.02	8.46	8.67	0.33
unico	25	Max WS	A TR_30 2H	15.69	263.86	265.91	265.11	265.99	0.001477	1.21	12.97	10.24	0.34
unico	25	Max WS	A TR_30 3H	19.74	263.86	266.15	265.24	266.23	0.001441	1.28	15.47	11.01	0.34
unico	25	Max WS	A TR_30 4H	21.58	263.86	266.25	265.30	266.34	0.001418	1.30	16.60	11.35	0.34
unico	25	Max WS	A TR_30 6H	21.96	263.86	266.27	265.31	266.36	0.001414	1.30	16.84	11.41	0.34
unico	25	Max WS	A TR_30 8H	20.96	263.86	266.22	265.28	266.30	0.001429	1.29	16.21	11.23	0.34
unico	25	Max WS	A TR_30 12H	18.30	263.86	266.07	265.20	266.15	0.001456	1.26	14.58	10.74	0.34
unico	24	Max WS	A TR_200 1H	26.02	263.69	266.58	265.12	266.71	0.000876	1.58	16.49	13.56	0.31
unico	24	Max WS	A TR_200 2H	42.24	263.69	266.86	265.59	267.13	0.001667	2.32	18.18	14.23	0.43
unico	24	Max WS	A TR_200 3H	44.03	263.69	266.95	265.64	267.23	0.001634	2.35	18.75	14.40	0.43
unico	24	Max WS	A TR_200 4H	44.49	263.69	266.97	265.65	267.25	0.001626	2.35	18.90	14.44	0.43
unico	24	Max WS	A TR_200 6H	44.03	263.69	266.95	265.64	267.23	0.001634	2.35	18.76	14.40	0.43
unico	24	Max WS	A TR_200 8H	43.11	263.69	266.90	265.61	267.18	0.001651	2.34	18.46	14.31	0.43
unico	24	Max WS	A TR_200 12H	41.20	263.69	266.80	265.56	267.07	0.001686	2.31	17.85	14.13	0.43
unico	24	Max WS	A TR_30 1H	8.59	263.69	265.30	264.46	265.35	0.000826	1.00	8.63	9.28	0.27
unico	24	Max WS	A TR_30 2H	15.69	263.69	265.73	264.77	265.83	0.001130	1.39	11.28	10.72	0.33
unico	24	Max WS	A TR_30 3H	19.74	263.69	265.95	264.91	266.07	0.001241	1.57	12.59	11.44	0.35
unico	24	Max WS	A TR_30 4H	21.57	263.69	266.04	264.98	266.17	0.001281	1.64	13.15	11.74	0.36
unico	24	Max WS	A TR_30 6H	21.96	263.69	266.06	264.99	266.20	0.001288	1.66	13.27	11.81	0.36
unico	24	Max WS	A TR_30 8H	20.96	263.69	266.01	264.96	266.14	0.001270	1.62	12.96	11.64	0.36
unico	24	Max WS	A TR_30 12H	18.30	263.69	265.87	264.87	265.99	0.001206	1.51	12.13	11.19	0.34
unico	23.5			Bridge									
unico	23	Max WS	A TR_200 1H	29.74	263.81	265.87	265.53	266.30	0.005548	2.90	10.25	13.05	0.71
unico	23	Max WS	A TR_200 2H	42.23	263.81	266.13	265.88	266.78	0.006871	3.56	11.87	15.81	0.81
unico	23	Max WS	A TR_200 3H	44.03	263.81	266.17	265.93	266.85	0.006973	3.63	12.11	16.13	0.82
unico	23	Max WS	A TR_200 4H	44.49	263.81	266.18	265.94	266.86	0.006998	3.65	12.18	16.17	0.82
unico	23	Max WS	A TR_200 6H	44.03	263.81	266.17	265.92	266.85	0.006971	3.63	12.12	16.13	0.82
unico	23	Max WS	A TR_200 8H	43.11	263.81	266.15	265.91	266.81	0.006920	3.60	11.99	16.02	0.82
unico	23	Max WS	A TR_200 12H	41.20	263.81	266.11	265.86	266.74	0.006815	3.51	11.72	15.56	0.81
unico	23	Max WS	A TR_30 1H	8.59	263.81	265.11	264.75	265.23	0.003322	1.51	5.68	8.71	0.50
unico	23	Max WS	A TR_30 2H	15.69	263.81	265.42	265.06	265.64	0.004350	2.09	7.51	9.98	0.60
unico	23	Max WS	A TR_30 3H	19.74	263.81	265.55	265.21	265.84	0.004900	2.37	8.32	10.54	0.65
unico	23	Max WS	A TR_30 4H	21.57	263.81	265.61	265.27	265.92	0.005122	2.49	8.66	10.77	0.67
unico	23	Max WS	A TR_30 6H	21.96	263.81	265.62	265.28	265.94	0.005169	2.52	8.73	10.82	0.67
unico	23	Max WS	A TR_30 8H	20.96	263.81	265.59	265.25	265.89	0.005041	2.45	8.55	10.70	0.66
unico	23	Max WS	A TR_30 12H	18.30	263.81	265.50	265.15	265.77	0.004709	2.27	8.05	10.35	0.63
unico	22.98			Lat Struct									
unico	22.97			Lat Struct									
unico	22	Max WS	A TR_200 1H	28.87	263.45	265.35	265.06	265.59	0.004417	2.56	14.79	12.95	0.62
unico	22	Max WS	A TR_200 2H	42.23	263.45	265.70	265.32	265.99	0.004365	2.87	19.42	13.93	0.64
unico	22	Max WS	A TR_200 3H	44.02	263.45	265.74	265.35	266.04	0.004368	2.91	19.99	14.04	0.64
unico	22	Max WS	A TR_200 4H	44.48	263.45	265.75	265.36	266.05	0.004378	2.92	20.13	14.07	0.64
unico	22	Max WS	A TR_200 6H	44.03	263.45	265.74	265.35	266.04	0.004367	2.91	20.00	14.04	0.64
unico	22	Max WS	A TR_200 8H	43.11	263.45	265.72	265.34	266.01	0.004361	2.89	19.71	13.99	0.64
unico	22	Max WS	A TR_200 12H	41.20	263.45	265.67	265.30	265.96	0.004372	2.85	19.07	13.85	0.64
unico	22	Max WS	A TR_30 1H	8.58	263.45	264.61	264.49	264.75	0.004877	1.85	5.95	10.83	0.59
unico	22	Max WS	A TR_30 2H	15.68	263.45	264.91	264.73	265.09	0.004801	2.19	9.32	11.68	0.62
unico	22	Max WS	A TR_30 3H	19.73	263.45	265.05	264.84	265.26	0.004699	2.33	11.05	12.10	0.62
unico	22	Max WS	A TR_30 4H	21.57	263.45	265.12	264.89	265.33	0.004648	2.38	11.82	12.28	0.62
unico	22	Max WS	A TR_30 6H	21.95	263.45	265.13	264.90	265.34	0.004640	2.39	11.98	12.31	0.62
unico	22	Max WS	A TR_30 8H	20.95	263.45	265.10	264.87	265.30	0.004660	2.36	11.57	12.22	0.62
unico	22	Max WS	A TR_30 12H	18.30	263.45	265.01	264.80	265.20	0.004719	2.28	10.46	11.96	0.62
unico	21	Max WS	A TR_200 1H	28.87	262.85	265.04	264.56	265.20	0.002731	2.08	17.78	14.36	0.50
unico	21	Max WS	A TR_200 2H	42.23	262.85	265.43	264.81	265.63	0.002588	2.31	23.64	15.53	0.50
unico	21	Max WS	A TR_200 3H	43.96	262.85	265.48	264.84	265.67	0.002581	2.34	24.33	15.59	0.50
unico	21	Max WS	A TR_200 4H	44.37	262.85	265.49	264.85	265.68	0.002580	2.35	24.49	15.61	0.50
unico	21	Max WS	A TR_200 6H	43.96	262.85	265.48	264.84	265.67	0.002580	2.34	24.34	15.59	0.50
unico	21	Max WS	A TR_200 8H	43.10	262.85	265.45	264.82	265.65	0.002583	2.33	23.99	15.57	0.50
unico	21	Max WS	A TR_200 12H	41.20	262.85	265.41	264.79	265.60	0.002589	2.29	23.23	15.45	0.50
unico	21	Max WS	A TR_30 1H	8.57	262.85	264.22	264.02	264.32	0.003378	1.54	7.02	11.90	0.50
unico	21	Max WS	A TR_30 2H	15.67	262.85	264.59	264.25	264.70	0.002742	1.72	11.60	13.00	0.47
unico	21	Max WS	A TR_30 3H	19.72	262.85	264.75	264.35	264.88	0.002675	1.83	13.73	13.49	0.48
unico	21	Max WS	A TR_30 4H	21.56	262.85	264.82	264.39	264.95	0.002657	1.88	14.64	13.69	0.48
unico	21	Max WS	A TR_30 6H	21.95	262.85	264.83	264.41	264.96	0.002653	1.89	14.83	13.73	0.48
unico	21	Max WS	A TR_30 8H	20.95	262.85	264.79	264.38	264.93	0.002662	1.86	14.34	13.62	0.48
unico	21	Max WS	A TR_30 12H	18.30	262.85	264.70	264.32	264.82	0.002691	1.79	13.00	13.32	0.48
unico	20	Max WS	A TR_200 1H	28.87	262.94	264.98	264.55	265.18	0.003043	2.20	16.22	13.07	0.51

HEC-RAS River: Rigo_Galegno Reach: unico 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)	
unico	20	Max WS	A TR_200 2H	42.23	262.94	265.35	264.83	265.60	0.003071	2.50	21.28	14.13	0.53
unico	20	Max WS	A TR_200 3H	43.95	262.94	265.40	264.86	265.65	0.003076	2.53	21.89	14.25	0.53
unico	20	Max WS	A TR_200 4H	44.36	262.94	265.41	264.87	265.66	0.003076	2.54	22.04	14.28	0.54
unico	20	Max WS	A TR_200 6H	43.96	262.94	265.40	264.86	265.65	0.003074	2.53	21.90	14.25	0.53
unico	20	Max WS	A TR_200 8H	43.10	262.94	265.38	264.84	265.63	0.003073	2.51	21.59	14.19	0.53
unico	20	Max WS	A TR_200 12H	41.20	262.94	265.33	264.80	265.57	0.003063	2.48	20.92	14.05	0.53
unico	20	Max WS	A TR_30 1H	8.57	262.94	264.18	263.79	264.28	0.002734	1.44	6.77	10.02	0.44
unico	20	Max WS	A TR_30 2H	15.67	262.94	264.54	264.15	264.67	0.002807	1.76	10.68	11.81	0.47
unico	20	Max WS	A TR_30 3H	19.71	262.94	264.69	264.29	264.85	0.002870	1.91	12.56	12.25	0.49
unico	20	Max WS	A TR_30 4H	21.56	262.94	264.76	264.35	264.92	0.002896	1.97	13.36	12.43	0.49
unico	20	Max WS	A TR_30 6H	21.95	262.94	264.77	264.37	264.94	0.002901	1.99	13.53	12.47	0.49
unico	20	Max WS	A TR_30 8H	20.94	262.94	264.74	264.33	264.90	0.002885	1.95	13.10	12.38	0.49
unico	20	Max WS	A TR_30 12H	18.30	262.94	264.64	264.25	264.79	0.002847	1.86	11.92	12.10	0.48
unico	19	Max WS	A TR_200 1H	28.83	262.39	264.31	263.97	264.55	0.004064	2.41	14.79	12.67	0.58
unico	19	Max WS	A TR_200 2H	42.21	262.39	264.68	264.26	264.97	0.003927	2.69	19.72	13.80	0.59
unico	19	Max WS	A TR_200 3H	43.93	262.39	264.73	264.29	265.02	0.003890	2.72	20.36	13.94	0.59
unico	19	Max WS	A TR_200 4H	44.36	262.39	264.74	264.30	265.03	0.003878	2.72	20.53	13.98	0.59
unico	19	Max WS	A TR_200 6H	43.95	262.39	264.73	264.29	265.02	0.003884	2.72	20.38	13.95	0.59
unico	19	Max WS	A TR_200 8H	43.09	262.39	264.71	264.28	264.99	0.003903	2.70	20.06	13.88	0.59
unico	19	Max WS	A TR_200 12H	41.19	262.39	264.66	264.24	264.94	0.003937	2.67	19.36	13.72	0.59
unico	19	Max WS	A TR_30 1H	8.56	262.39	263.52	263.22	263.66	0.004282	1.67	5.79	10.27	0.54
unico	19	Max WS	A TR_30 2H	15.66	262.39	263.84	263.62	264.03	0.004352	2.04	9.23	11.24	0.57
unico	19	Max WS	A TR_30 3H	19.70	262.39	264.00	263.74	264.20	0.004325	2.18	10.97	11.71	0.58
unico	19	Max WS	A TR_30 4H	21.54	262.39	264.06	263.80	264.27	0.004293	2.24	11.74	11.91	0.58
unico	19	Max WS	A TR_30 6H	21.94	262.39	264.07	263.81	264.29	0.004283	2.25	11.91	11.95	0.58
unico	19	Max WS	A TR_30 8H	20.94	262.39	264.04	263.78	264.25	0.004296	2.22	11.49	11.84	0.58
unico	19	Max WS	A TR_30 12H	18.30	262.39	263.95	263.70	264.14	0.004327	2.13	10.38	11.55	0.57
unico	18	Max WS	A TR_200 1H	28.74	261.54	263.63	263.08	263.78	0.002699	1.88	17.18	13.07	0.48
unico	18	Max WS	A TR_200 2H	42.15	261.54	264.08	263.36	264.26	0.002462	2.01	23.38	14.36	0.47
unico	18	Max WS	A TR_200 3H	43.89	261.54	264.14	263.38	264.32	0.002427	2.03	24.20	14.52	0.46
unico	18	Max WS	A TR_200 4H	44.33	261.54	264.15	263.39	264.33	0.002417	2.03	24.41	14.56	0.46
unico	18	Max WS	A TR_200 6H	43.94	261.54	264.14	263.39	264.32	0.002424	2.02	24.23	14.53	0.46
unico	18	Max WS	A TR_200 8H	43.08	261.54	264.11	263.37	264.29	0.002441	2.02	23.83	14.45	0.46
unico	18	Max WS	A TR_200 12H	41.19	261.54	264.05	263.34	264.23	0.002474	2.00	22.96	14.27	0.47
unico	18	Max WS	A TR_30 1H	8.54	261.54	262.71	262.37	262.81	0.003457	1.46	6.40	10.45	0.50
unico	18	Max WS	A TR_30 2H	15.61	261.54	263.09	262.73	263.21	0.003103	1.66	10.52	11.52	0.49
unico	18	Max WS	A TR_30 3H	19.65	261.54	263.27	262.85	263.41	0.002939	1.74	12.68	12.04	0.48
unico	18	Max WS	A TR_30 4H	21.50	261.54	263.35	262.90	263.49	0.002876	1.77	13.63	12.27	0.48
unico	18	Max WS	A TR_30 6H	21.92	261.54	263.37	262.92	263.51	0.002859	1.78	13.85	12.32	0.48
unico	18	Max WS	A TR_30 8H	20.92	261.54	263.32	262.89	263.46	0.002890	1.76	13.34	12.20	0.48
unico	18	Max WS	A TR_30 12H	18.29	261.54	263.21	262.81	263.34	0.002980	1.71	11.98	11.88	0.49
unico	17	Max WS	A TR_200 1H	28.71	260.96	263.26	262.47	263.38	0.001786	1.61	19.81	13.29	0.39
unico	17	Max WS	A TR_200 2H	42.13	260.96	263.76	262.75	263.89	0.001675	1.74	26.74	14.75	0.39
unico	17	Max WS	A TR_200 3H	43.88	260.96	263.82	262.78	263.95	0.001657	1.75	27.65	14.94	0.39
unico	17	Max WS	A TR_200 4H	44.32	260.96	263.83	262.79	263.97	0.001651	1.76	27.88	14.98	0.39
unico	17	Max WS	A TR_200 6H	43.93	260.96	263.82	262.78	263.96	0.001655	1.75	27.68	14.94	0.39
unico	17	Max WS	A TR_200 8H	43.08	260.96	263.79	262.77	263.92	0.001666	1.75	27.23	14.85	0.39
unico	17	Max WS	A TR_200 12H	41.18	260.96	263.72	262.73	263.86	0.001680	1.73	26.27	14.66	0.39
unico	17	Max WS	A TR_30 1H	8.52	260.96	262.25	261.83	262.32	0.002061	1.21	7.87	10.28	0.39
unico	17	Max WS	A TR_30 2H	15.58	260.96	262.69	262.12	262.77	0.001824	1.37	12.69	11.59	0.38
unico	17	Max WS	A TR_30 3H	19.62	260.96	262.89	262.24	262.99	0.001778	1.45	15.10	12.19	0.38
unico	17	Max WS	A TR_30 4H	21.48	260.96	262.98	262.29	263.08	0.001762	1.48	16.16	12.44	0.38
unico	17	Max WS	A TR_30 6H	21.91	260.96	263.00	262.30	263.10	0.001759	1.48	16.40	12.50	0.38
unico	17	Max WS	A TR_30 8H	20.91	260.96	262.95	262.27	263.05	0.001764	1.47	15.84	12.37	0.38
unico	17	Max WS	A TR_30 12H	18.29	260.96	262.83	262.20	262.92	0.001787	1.42	14.33	12.00	0.38
unico	16	Max WS	A TR_200 1H	28.67	260.40	262.66	262.06	262.87	0.003222	2.10	14.93	10.37	0.52
unico	16	Max WS	A TR_200 2H	42.08	260.40	263.17	262.40	263.40	0.002945	2.24	20.59	11.91	0.51
unico	16	Max WS	A TR_200 3H	43.84	260.40	263.25	262.44	263.48	0.002842	2.24	21.52	12.14	0.50
unico	16	Max WS	A TR_200 4H	44.29	260.40	263.27	262.46	263.50	0.002814	2.23	21.77	12.20	0.50
unico	16	Max WS	A TR_200 6H	43.92	260.40	263.25	262.45	263.48	0.002844	2.24	21.54	12.15	0.50
unico	16	Max WS	A TR_200 8H	43.07	260.40	263.21	262.43	263.44	0.002906	2.24	21.06	12.02	0.51
unico	16	Max WS	A TR_200 12H	41.18	260.40	263.13	262.38	263.36	0.003001	2.24	20.12	11.78	0.51
unico	16	Max WS	A TR_30 1H	8.50	260.40	261.70	261.28	261.80	0.002881	1.44	6.32	7.43	0.46
unico	16	Max WS	A TR_30 2H	15.56	260.40	262.10	261.62	262.25	0.003149	1.76	9.56	8.65	0.50
unico	16	Max WS	A TR_30 3H	19.60	260.40	262.29	261.77	262.46	0.003200	1.89	11.28	9.24	0.51
unico	16	Max WS	A TR_30 4H	21.46	260.40	262.37	261.83	262.55	0.003203	1.93	12.06	9.49	0.51
unico	16	Max WS	A TR_30 6H	21.90	260.40	262.39	261.84	262.57	0.003205	1.95	12.24	9.55	0.51
unico	16	Max WS	A TR_30 8H	20.89	260.40	262.35	261.82	262.52	0.003205	1.92	11.82	9.41	0.51
unico	16	Max WS	A TR_30 12H	18.28	260.40	262.23	261.72	262.39	0.003188	1.85	10.73	9.05	0.50
unico	15	Max WS	A TR_200 1H	28.66	260.40	262.49	261.66	262.64	0.001698	1.69	17.01	11.41	0.40
unico	15	Max WS	A TR_200 2H	42.07	260.40	263.02	261.95	263.20	0.001570	1.92	21.92	12.72	0.40
unico	15	Max WS	A TR_200 3H	43.82	260.40	263.10	261.99	263.29	0.001523	1.93	22.67	12.92	0.40
unico	15	Max WS	A TR_200 4H	44.29	260.40	263.12	262.00	263.31	0.001512	1.94	22.87	12.97	0.40
unico	15	Max WS	A TR_200 6H	43.92	260.40	263.10	261.99	263.29	0.001527	1.94	22.68	12.92	0.40
unico	15	Max WS	A TR_200 8H	43.07	260.40	263.06	261.97	263.25	0.001557	1.93	22.29	12.82	0.40
unico	15	Max WS	A TR_200 12H	41.18	260.40	262.97	261.93	263.16	0.001598	1.91	21.53	12.61	0.40
unico	15	Max WS	A TR_30 1H	8.50	260.40	261.53	261.06	261.58	0.001842	1.07	7.91	9.30	0.37
unico	15	Max WS	A TR_30 2H	15.56	260.40	261.95	261.32	262.04	0.001657	1.31	11.88	10.04	0.37
unico	15	Max WS	A TR_30 3H	19.59	260.40	262.14	261.44	262.25	0.001631	1.43	13.70	10.53	0.38
unico	15	Max WS	A TR_30 4H	21.46	260.40	262.23	261.49	262.34	0.001623	1.48	14.49	10.74	0.38
unico	15	Max WS	A TR_30 6H	21.89	260.40	262.25	261.50	262.36	0.001623	1.49	14.67	10.79	0.38
unico	15	Max WS	A TR_30 8H	20.89	260.40	262.20	261.47	262.31	0.001627	1.47	14.25	10.67	0.38
unico	15	Max WS	A TR_30 12H	18.28	260.40	262.08	261.40	262.18	0.001637	1.39	13.13	10.38	0.38
unico	14.5			Bridge									

HEC-RAS River: Rigo_Galegno Reach: unico 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)	
unico	14	Max WS	A TR_200 1H	28.65	260.23	262.45	261.65	262.60	0.001790	1.71	16.73	12.17	0.41
unico	14	Max WS	A TR_200 2H	42.06	260.23	262.93	261.94	263.13	0.001743	1.98	21.24	13.60	0.42
unico	14	Max WS	A TR_200 3H	43.80	260.23	263.00	261.97	263.20	0.001702	2.00	21.92	13.81	0.42
unico	14	Max WS	A TR_200 4H	44.29	260.23	263.02	261.98	263.22	0.001693	2.01	22.10	13.87	0.42
unico	14	Max WS	A TR_200 6H	43.92	260.23	263.00	261.98	263.21	0.001709	2.01	21.93	13.82	0.42
unico	14	Max WS	A TR_200 8H	43.07	260.23	262.96	261.96	263.17	0.001737	2.00	21.57	13.70	0.42
unico	14	Max WS	A TR_200 12H	41.18	260.23	262.89	261.92	263.09	0.001770	1.98	20.87	13.48	0.42
unico	14	Max WS	A TR_30 1H	8.50	260.23	261.51	261.04	261.57	0.001886	1.08	7.88	9.52	0.37
unico	14	Max WS	A TR_30 2H	15.56	260.23	261.93	261.31	262.02	0.001671	1.32	11.83	10.61	0.37
unico	14	Max WS	A TR_30 3H	19.59	260.23	262.12	261.42	262.22	0.001665	1.44	13.61	11.17	0.38
unico	14	Max WS	A TR_30 4H	21.46	260.23	262.20	261.47	262.31	0.001667	1.49	14.37	11.41	0.39
unico	14	Max WS	A TR_30 6H	21.89	260.23	262.22	261.48	262.33	0.001669	1.51	14.54	11.47	0.39
unico	14	Max WS	A TR_30 8H	20.89	260.23	262.17	261.46	262.28	0.001665	1.48	14.14	11.34	0.38
unico	14	Max WS	A TR_30 12H	18.28	260.23	262.06	261.39	262.16	0.001664	1.40	13.06	11.00	0.38
unico	13	Max WS	A TR_200 1H	28.62	259.80	262.05	261.64	262.33	0.004142	2.84	13.74	10.09	0.62
unico	13	Max WS	A TR_200 2H	42.00	259.80	262.54	261.99	262.86	0.003681	3.08	19.09	11.53	0.61
unico	13	Max WS	A TR_200 3H	43.79	259.80	262.65	262.03	262.95	0.003392	3.04	20.30	11.83	0.59
unico	13	Max WS	A TR_200 4H	44.26	259.80	262.67	262.04	262.97	0.003320	3.03	20.63	11.91	0.58
unico	13	Max WS	A TR_200 6H	43.91	259.80	262.64	262.03	262.95	0.003423	3.05	20.27	11.82	0.59
unico	13	Max WS	A TR_200 8H	43.07	259.80	262.58	262.01	262.90	0.003619	3.09	19.57	11.65	0.61
unico	13	Max WS	A TR_200 12H	41.18	259.80	262.47	261.97	262.80	0.003955	3.14	18.31	11.33	0.63
unico	13	Max WS	A TR_30 1H	8.50	259.80	261.12	260.89	261.27	0.004214	1.95	5.61	7.39	0.57
unico	13	Max WS	A TR_30 2H	15.55	259.80	261.50	261.20	261.71	0.004290	2.37	8.66	8.51	0.60
unico	13	Max WS	A TR_30 3H	19.58	259.80	261.69	261.35	261.92	0.004265	2.55	10.28	9.04	0.61
unico	13	Max WS	A TR_30 4H	21.44	259.80	261.77	261.41	262.01	0.004254	2.62	11.00	9.27	0.62
unico	13	Max WS	A TR_30 6H	21.89	259.80	261.78	261.43	262.03	0.004274	2.64	11.15	9.32	0.62
unico	13	Max WS	A TR_30 8H	20.89	259.80	261.74	261.39	261.98	0.004304	2.61	10.75	9.19	0.62
unico	13	Max WS	A TR_30 12H	18.28	259.80	261.62	261.30	261.85	0.004337	2.50	9.72	8.86	0.62
unico	12	Max WS	A TR_200 1H	28.48	258.93	261.48	260.85	261.66	0.002268	2.06	17.04	11.90	0.45
unico	12	Max WS	A TR_200 2H	41.97	258.93	262.13	261.17	262.31	0.001652	2.10	25.40	13.63	0.40
unico	12	Max WS	A TR_200 3H	43.78	258.93	262.29	261.21	262.45	0.001446	2.04	27.51	14.04	0.38
unico	12	Max WS	A TR_200 4H	44.26	258.93	262.33	261.22	262.49	0.001401	2.02	28.05	14.14	0.38
unico	12	Max WS	A TR_200 6H	43.91	258.93	262.28	261.21	262.44	0.001471	2.05	27.40	14.02	0.38
unico	12	Max WS	A TR_200 8H	43.07	258.93	262.19	261.19	262.36	0.001615	2.10	26.10	13.77	0.40
unico	12	Max WS	A TR_200 12H	41.17	258.93	262.01	261.15	262.20	0.001916	2.20	23.72	13.30	0.43
unico	12	Max WS	A TR_30 1H	8.48	258.93	260.44	260.01	260.55	0.003018	1.51	6.07	8.45	0.46
unico	12	Max WS	A TR_30 2H	15.52	258.93	260.92	260.37	261.05	0.002358	1.71	10.76	10.42	0.44
unico	12	Max WS	A TR_30 3H	19.55	258.93	261.12	260.57	261.27	0.002252	1.81	12.98	10.96	0.44
unico	12	Max WS	A TR_30 4H	21.43	258.93	261.21	260.63	261.36	0.002245	1.87	13.90	11.18	0.44
unico	12	Max WS	A TR_30 6H	21.89	258.93	261.21	260.65	261.37	0.002313	1.90	13.96	11.20	0.45
unico	12	Max WS	A TR_30 8H	20.88	258.93	261.15	260.62	261.31	0.002411	1.90	13.28	11.04	0.45
unico	12	Max WS	A TR_30 12H	18.27	258.93	261.00	260.52	261.16	0.002622	1.87	11.67	10.65	0.47
unico	11	Max WS	A TR_200 1H	28.46	258.45	261.41	260.33	261.49	0.000939	1.45	24.62	14.23	0.29
unico	11	Max WS	A TR_200 2H	41.96	258.45	262.10	260.61	262.19	0.000756	1.53	35.13	15.88	0.27
unico	11	Max WS	A TR_200 3H	43.78	258.45	262.26	260.65	262.34	0.000678	1.49	37.67	16.25	0.26
unico	11	Max WS	A TR_200 4H	44.26	258.45	262.30	260.65	262.38	0.000660	1.49	38.32	16.35	0.26
unico	11	Max WS	A TR_200 6H	43.91	258.45	262.25	260.65	262.34	0.000689	1.50	37.54	16.23	0.26
unico	11	Max WS	A TR_200 8H	43.06	258.45	262.16	260.63	262.24	0.000746	1.53	35.96	16.00	0.27
unico	11	Max WS	A TR_200 12H	41.16	258.45	261.97	260.59	262.07	0.000863	1.59	33.04	15.56	0.29
unico	11	Max WS	A TR_30 1H	8.48	258.45	260.31	259.52	260.35	0.000908	0.97	10.44	11.63	0.26
unico	11	Max WS	A TR_30 2H	15.52	258.45	260.85	259.97	260.90	0.000784	1.12	17.05	12.91	0.25
unico	11	Max WS	A TR_30 3H	19.55	258.45	261.06	260.10	261.12	0.000809	1.22	19.87	13.41	0.26
unico	11	Max WS	A TR_30 4H	21.43	258.45	261.15	260.15	261.21	0.000831	1.27	21.02	13.61	0.27
unico	11	Max WS	A TR_30 6H	21.88	258.45	261.15	260.16	261.22	0.000861	1.29	21.07	13.62	0.27
unico	11	Max WS	A TR_30 8H	20.87	258.45	261.08	260.14	261.15	0.000884	1.28	20.18	13.47	0.28
unico	11	Max WS	A TR_30 12H	18.26	258.45	260.93	260.06	260.99	0.000922	1.24	18.07	13.09	0.28
unico	10	Max WS	A TR_200 1H	54.31	257.56	260.70	260.20	261.01	0.003410	2.73	24.77	15.29	0.55
unico	10	Max WS	A TR_200 2H	80.81	257.56	261.25	260.61	261.61	0.003317	3.06	33.48	16.83	0.56
unico	10	Max WS	A TR_200 3H	88.17	257.56	261.38	260.71	261.76	0.003284	3.13	35.82	17.22	0.56
unico	10	Max WS	A TR_200 4H	90.09	257.56	261.42	260.73	261.80	0.003270	3.15	36.44	17.32	0.56
unico	10	Max WS	A TR_200 6H	87.78	257.56	261.38	260.71	261.76	0.003267	3.12	35.77	17.21	0.55
unico	10	Max WS	A TR_200 8H	83.24	257.56	261.30	260.64	261.67	0.003278	3.08	34.36	16.98	0.55
unico	10	Max WS	A TR_200 12H	74.91	257.56	261.14	260.52	261.49	0.003308	2.99	31.71	16.53	0.55
unico	10	Max WS	A TR_30 1H	18.81	257.56	259.67	259.18	259.87	0.003762	2.03	10.52	12.37	0.53
unico	10	Max WS	A TR_30 2H	31.39	257.56	260.10	259.73	260.34	0.003662	2.36	16.02	13.57	0.54
unico	10	Max WS	A TR_30 3H	38.32	257.56	260.30	259.90	260.56	0.003585	2.49	18.78	14.13	0.54
unico	10	Max WS	A TR_30 4H	41.26	257.56	260.38	259.96	260.65	0.003554	2.54	19.91	14.36	0.54
unico	10	Max WS	A TR_30 6H	41.42	257.56	260.38	259.96	260.66	0.003550	2.54	19.97	14.37	0.54
unico	10	Max WS	A TR_30 8H	39.17	257.56	260.32	259.91	260.59	0.003568	2.51	19.12	14.20	0.54
unico	10	Max WS	A TR_30 12H	33.94	257.56	260.18	259.79	260.43	0.003624	2.41	17.07	13.79	0.54
unico	09	Max WS	A TR_200 1H	54.25	256.79	260.10	259.45	260.37	0.002814	2.57	26.44	15.11	0.49
unico	09	Max WS	A TR_200 2H	80.76	256.79	260.67	259.87	260.99	0.002819	2.91	35.38	16.68	0.51
unico	09	Max WS	A TR_200 3H	88.13	256.79	260.81	259.97	261.15	0.002808	2.99	37.77	17.08	0.51
unico	09	Max WS	A TR_200 4H	90.04	256.79	260.85	259.99	261.19	0.002794	3.00	38.44	17.19	0.51
unico	09	Max WS	A TR_200 6H	87.76	256.79	260.81	259.96	261.15	0.002771	2.97	37.84	17.09	0.51
unico	09	Max WS	A TR_200 8H	83.22	256.79	260.73	259.90	261.05	0.002759	2.91	36.45	16.86	0.51
unico	09	Max WS	A TR_200 12H	74.90	256.79	260.57	259.78	260.88	0.002745	2.82	33.81	16.42	0.50
unico	09	Max WS	A TR_30 1H	18.77	256.79	259.03	258.43	259.19	0.002854	1.86	11.84	12.13	0.46
unico	09	Max WS	A TR_30 2H	31.36	256.79	259.49	258.99	259.69	0.002807	2.17	17.66	13.40	0.47
unico	09	Max WS	A TR_30 3H	38.28	256.79	259.69	259.15	259.92	0.002805	2.30	20.49	13.97	0.48
unico	09	Max WS	A TR_30 4H	41.23	256.79	259.78	259.20	260.01	0.002803	2.36	21.64	14.20	0.48
unico	09	Max WS	A TR_30 6H	41.40	256.79	259.78	259.20	260.01	0.002802	2.36	21.71	14.22	0.48
unico	09	Max WS	A TR_30 8H	39.16	256.79	259.72	259.16	259.94	0.002800	2.32	20.84	14.04	0.48
unico	09	Max WS	A TR_30 12H	33.93	256.79	259.57	259.04	259.78	0.002798	2.22	18.75	13.62	0.47
unico	08	Max WS	A TR_200 1H	54.17	256.08	259.48	258.86	259.76	0.003028	2.62	25.88	15.00	0.50

HEC-RAS River: Rigo_Galegno Reach: unico 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)	
unico	08	Max WS	A TR_200 2H	80.64	256.08	260.04	259.28	260.37	0.003048	2.97	34.65	16.56	0.52
unico	08	Max WS	A TR_200 3H	87.98	256.08	260.19	259.39	260.54	0.002995	3.03	37.19	16.98	0.52
unico	08	Max WS	A TR_200 4H	89.88	256.08	260.24	259.41	260.58	0.002942	3.03	38.02	17.12	0.51
unico	08	Max WS	A TR_200 6H	87.72	256.08	260.21	259.38	260.55	0.002888	2.99	37.60	17.05	0.51
unico	08	Max WS	A TR_200 8H	83.20	256.08	260.14	259.32	260.46	0.002854	2.93	36.33	16.84	0.50
unico	08	Max WS	A TR_200 12H	74.88	256.08	259.99	259.20	260.29	0.002802	2.82	33.84	16.42	0.49
unico	08	Max WS	A TR_30 1H	18.75	256.08	258.43	257.80	258.59	0.002861	1.87	11.64	12.05	0.45
unico	08	Max WS	A TR_30 2H	31.31	256.08	258.87	258.35	259.08	0.003018	2.22	17.17	13.28	0.48
unico	08	Max WS	A TR_30 3H	38.22	256.08	259.07	258.53	259.30	0.003047	2.37	19.91	13.84	0.49
unico	08	Max WS	A TR_30 4H	41.19	256.08	259.15	258.59	259.39	0.003055	2.42	21.04	14.07	0.49
unico	08	Max WS	A TR_30 6H	41.38	256.08	259.15	258.61	259.40	0.003051	2.43	21.12	14.08	0.49
unico	08	Max WS	A TR_30 8H	39.14	256.08	259.09	258.56	259.33	0.003040	2.38	20.28	13.92	0.49
unico	08	Max WS	A TR_30 12H	33.92	256.08	258.95	258.43	259.17	0.003017	2.28	18.25	13.50	0.48
unico	07	Max WS	A TR_200 1H	54.06	255.74	258.98	258.23	259.18	0.002159	2.29	30.18	17.32	0.44
unico	07	Max WS	A TR_200 2H	80.51	255.74	259.58	258.61	259.82	0.002033	2.53	41.22	19.16	0.44
unico	07	Max WS	A TR_200 3H	87.81	255.74	259.76	258.71	260.00	0.001953	2.57	44.55	19.68	0.43
unico	07	Max WS	A TR_200 4H	89.72	255.74	259.82	258.73	260.06	0.001889	2.55	45.81	19.87	0.43
unico	07	Max WS	A TR_200 6H	87.69	255.74	259.81	258.71	260.03	0.001836	2.51	45.52	19.83	0.42
unico	07	Max WS	A TR_200 8H	83.19	255.74	259.74	258.65	259.96	0.001797	2.45	44.15	19.62	0.41
unico	07	Max WS	A TR_200 12H	74.87	255.74	259.59	258.54	259.80	0.001735	2.34	41.41	19.19	0.40
unico	07	Max WS	A TR_30 1H	18.71	255.74	257.90	257.24	258.03	0.002293	1.71	13.30	14.06	0.42
unico	07	Max WS	A TR_30 2H	31.26	255.74	258.36	257.81	258.51	0.002217	1.96	19.98	15.43	0.42
unico	07	Max WS	A TR_30 3H	38.18	255.74	258.56	257.96	258.74	0.002194	2.08	23.26	16.06	0.43
unico	07	Max WS	A TR_30 4H	41.15	255.74	258.65	258.01	258.83	0.002184	2.12	24.62	16.32	0.43
unico	07	Max WS	A TR_30 6H	41.35	255.74	258.66	258.02	258.83	0.002178	2.12	24.73	16.34	0.43
unico	07	Max WS	A TR_30 8H	39.12	255.74	258.60	257.97	258.77	0.002177	2.09	23.75	16.15	0.43
unico	07	Max WS	A TR_30 12H	33.90	255.74	258.44	257.87	258.61	0.002182	2.00	21.35	15.70	0.42
unico	06	Max WS	A TR_200 1H	53.97	255.45	258.61	257.87	258.84	0.002368	2.43	28.48	15.90	0.46
unico	06	Max WS	A TR_200 2H	80.38	255.45	259.23	258.27	259.49	0.002254	2.70	38.77	17.67	0.47
unico	06	Max WS	A TR_200 3H	87.65	255.45	259.42	258.37	259.68	0.002127	2.72	42.18	18.21	0.46
unico	06	Max WS	A TR_200 4H	89.59	255.45	259.49	258.40	259.76	0.002027	2.69	43.63	18.44	0.45
unico	06	Max WS	A TR_200 6H	87.66	255.45	259.49	258.37	259.74	0.001941	2.64	43.62	18.44	0.44
unico	06	Max WS	A TR_200 8H	83.17	255.45	259.44	258.31	259.67	0.001868	2.56	42.57	18.27	0.43
unico	06	Max WS	A TR_200 12H	74.86	255.45	259.32	258.19	259.53	0.001750	2.42	40.37	17.92	0.41
unico	06	Max WS	A TR_30 1H	2.99	255.45	257.71	255.97	257.71	0.000039	0.24	15.31	13.31	0.06
unico	06	Max WS	A TR_30 2H	31.24	255.45	258.00	257.43	258.16	0.002328	2.04	19.22	14.13	0.44
unico	06	Max WS	A TR_30 3H	38.15	255.45	258.20	257.58	258.39	0.002358	2.18	22.15	14.71	0.45
unico	06	Max WS	A TR_30 4H	41.11	255.45	258.28	257.64	258.48	0.002363	2.23	23.37	14.95	0.45
unico	06	Max WS	A TR_30 6H	41.33	255.45	258.29	257.64	258.48	0.002355	2.23	23.49	14.97	0.45
unico	06	Max WS	A TR_30 8H	39.09	255.45	258.23	257.60	258.42	0.002330	2.19	22.65	14.81	0.45
unico	06	Max WS	A TR_30 12H	33.88	255.45	258.09	257.49	258.26	0.002279	2.08	20.56	14.40	0.44
unico	05	Max WS	A TR_200 1H	53.89	255.11	258.39	257.58	258.60	0.002125	2.35	29.26	15.89	0.45
unico	05	Max WS	A TR_200 2H	80.32	255.11	259.01	257.98	259.27	0.002025	2.63	39.74	17.56	0.45
unico	05	Max WS	A TR_200 3H	87.52	255.11	259.22	258.07	259.47	0.001885	2.63	43.41	18.11	0.44
unico	05	Max WS	A TR_200 4H	89.51	255.11	259.31	258.10	259.55	0.001779	2.60	45.07	18.36	0.43
unico	05	Max WS	A TR_200 6H	87.65	255.11	259.32	258.08	259.55	0.001687	2.54	45.25	18.38	0.42
unico	05	Max WS	A TR_200 8H	83.17	255.11	259.27	258.02	259.49	0.001603	2.45	44.37	18.25	0.41
unico	05	Max WS	A TR_200 12H	74.85	255.11	259.16	257.90	259.36	0.001469	2.30	42.43	17.97	0.39
unico	05	Max WS	A TR_30 1H	2.99	255.11	257.71	255.75	257.71	0.000021	0.20	19.11	14.08	0.04
unico	05	Max WS	A TR_30 2H	31.23	255.11	257.78	257.15	257.94	0.001994	1.94	20.18	14.28	0.42
unico	05	Max WS	A TR_30 3H	38.13	255.11	257.98	257.30	258.15	0.002062	2.09	23.04	14.81	0.43
unico	05	Max WS	A TR_30 4H	41.10	255.11	258.06	257.35	258.24	0.002081	2.14	24.24	15.02	0.44
unico	05	Max WS	A TR_30 6H	41.31	255.11	258.07	257.36	258.25	0.002070	2.14	24.38	15.05	0.43
unico	05	Max WS	A TR_30 8H	39.07	255.11	258.02	257.32	258.19	0.002024	2.09	23.60	14.91	0.43
unico	05	Max WS	A TR_30 12H	33.86	255.11	257.88	257.21	258.04	0.001936	1.97	21.62	14.55	0.41
unico	04	Max WS	A TR_200 1H	53.76	254.94	258.03	257.36	258.27	0.002611	2.49	27.50	15.97	0.49
unico	04	Max WS	A TR_200 2H	80.19	254.94	258.70	257.76	258.96	0.002240	2.68	38.81	17.81	0.47
unico	04	Max WS	A TR_200 3H	87.38	254.94	258.94	257.86	259.19	0.001975	2.63	43.23	18.47	0.44
unico	04	Max WS	A TR_200 4H	89.43	254.94	259.06	257.88	259.30	0.001811	2.57	45.37	18.79	0.43
unico	04	Max WS	A TR_200 6H	87.62	254.94	259.08	257.86	259.31	0.001684	2.50	45.90	18.86	0.41
unico	04	Max WS	A TR_200 8H	83.15	254.94	259.05	257.80	259.26	0.001574	2.40	45.29	18.77	0.40
unico	04	Max WS	A TR_200 12H	74.85	254.94	258.97	257.69	259.15	0.001404	2.23	43.73	18.55	0.37
unico	04	Max WS	A TR_30 1H	2.99	254.94	257.71	255.52	257.71	0.000014	0.17	22.50	15.09	0.03
unico	04	Max WS	A TR_30 2H	4.17	254.94	257.62	255.63	257.62	0.000032	0.25	21.16	14.85	0.05
unico	04	Max WS	A TR_30 3H	3.80	254.94	257.60	255.59	257.61	0.000028	0.23	20.95	14.81	0.05
unico	04	Max WS	A TR_30 4H	41.07	254.94	257.68	257.15	257.90	0.002783	2.34	22.11	15.02	0.49
unico	04	Max WS	A TR_30 6H	41.24	254.94	257.70	257.15	257.91	0.002721	2.32	22.36	15.07	0.49
unico	04	Max WS	A TR_30 8H	38.97	254.94	257.66	257.11	257.86	0.002596	2.25	21.83	14.97	0.47
unico	04	Max WS	A TR_30 12H	2.98	254.94	257.57	255.52	257.57	0.000018	0.18	20.41	14.71	0.04
unico	3.97			Lat Struct									
unico	03	Max WS	A TR_200 1H	2.99	254.59	257.71	255.06	257.71	0.000006	0.12	30.76	17.27	0.02
unico	03	Max WS	A TR_200 2H	80.08	254.59	258.38	257.28	258.60	0.001666	2.38	43.15	19.23	0.41
unico	03	Max WS	A TR_200 3H	87.28	254.59	258.68	257.38	258.88	0.001395	2.30	49.01	20.09	0.38
unico	03	Max WS	A TR_200 4H	89.32	254.59	258.83	257.40	259.01	0.001246	2.23	51.94	20.51	0.36
unico	03	Max WS	A TR_200 6H	87.60	254.59	258.87	257.38	259.05	0.001137	2.15	52.93	20.65	0.35
unico	03	Max WS	A TR_200 8H	83.12	254.59	258.86	257.32	259.02	0.001040	2.05	52.63	20.61	0.33
unico	03	Max WS	A TR_200 12H	74.83	254.59	258.80	257.21	258.93	0.000898	1.89	51.43	20.44	0.31
unico	03	Max WS	A TR_30 1H	2.99	254.59	257.71	255.06	257.71	0.000006	0.12	30.76	17.27	0.02
unico	03	Max WS	A TR_30 2H	4.04	254.59	257.61	255.15	257.61	0.000012	0.17	29.16	17.00	0.03
unico	03	Max WS	A TR_30 3H	3.71	254.59	257.60	255.12	257.60	0.000011	0.16	28.95	16.97	0.03
unico	03	Max WS	A TR_30 4H	3.18	254.59	257.57	255.08	257.57	0.000008	0.14	28.43	16.88	0.03
unico	03	Max WS	A TR_30 6H	2.98	254.59	257.56	255.06	257.56	0.000007	0.13	28.36	16.87	0.03
unico	03	Max WS	A TR_30 8H	2.98	254.59	257.56	255.06	257.56	0.000007	0.13	28.36	16.87	0.03
unico	03	Max WS	A TR_30 12H	2.98	254.59	257.56	255.06	257.56	0.000007	0.13	28.36	16.87	0.03

HEC-RAS River: Rigo_Galegno Reach: unico 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)	
unico	02	Max WS	A TR_200 1H	53.51	253.30	257.46	256.19	257.60	0.001100	1.81	36.45	17.08	0.32
unico	02	Max WS	A TR_200 2H	80.07	253.30	258.28	256.61	258.44	0.000965	1.97	51.39	19.22	0.31
unico	02	Max WS	A TR_200 3H	87.24	253.30	258.60	256.71	258.74	0.000842	1.94	57.53	20.04	0.29
unico	02	Max WS	A TR_200 4H	89.29	253.30	258.75	256.74	258.89	0.000765	1.89	60.63	20.44	0.28
unico	02	Max WS	A TR_200 6H	87.59	253.30	258.81	256.72	258.93	0.000700	1.82	61.76	20.58	0.27
unico	02	Max WS	A TR_200 8H	83.11	253.30	258.80	256.65	258.91	0.000635	1.73	61.58	20.56	0.26
unico	02	Max WS	A TR_200 12H	74.82	253.30	258.75	256.53	258.84	0.000538	1.58	60.60	20.43	0.24
unico	02	Max WS	A TR_30 1H	18.61	253.30	256.04	255.06	256.14	0.001464	1.43	14.80	13.38	0.34
unico	02	Max WS	A TR_30 2H	31.00	253.30	256.62	255.56	256.74	0.001283	1.61	23.04	14.90	0.33
unico	02	Max WS	A TR_30 3H	37.82	253.30	256.88	255.85	257.00	0.001246	1.69	26.99	15.57	0.33
unico	02	Max WS	A TR_30 4H	40.74	253.30	257.00	255.93	257.12	0.001209	1.72	28.83	15.88	0.33
unico	02	Max WS	A TR_30 6H	40.67	253.30	257.09	255.92	257.20	0.001054	1.64	30.28	16.11	0.31
unico	02	Max WS	A TR_30 8H	38.47	253.30	257.13	255.87	257.23	0.000884	1.52	31.00	16.23	0.28
unico	02	Max WS	A TR_30 12H	33.54	253.30	257.11	255.69	257.19	0.000694	1.34	30.64	16.17	0.25

HEC-RAS River: Rigo_Galegno Reach: unico 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)
unico	28.99	Max WS	A TR_200 1H	28.89	0.00	27.04	0.00					268.54	267.89	267.58	266.99	266.82
unico	28.99	Max WS	A TR_200 2H	47.35	0.00	47.35	0.00					268.54	268.49	268.12	267.55	267.18
unico	28.99	Max WS	A TR_200 3H	55.29	0.00	55.27	0.00					268.54	268.71	268.32	267.76	267.30
unico	28.99	Max WS	A TR_200 4H	57.45	0.00	57.45	0.00					268.54	268.77	268.37	267.82	267.35
unico	28.99	Max WS	A TR_200 6H	55.30	0.00	55.30	0.00					268.54	268.71	268.32	267.76	267.31
unico	28.99	Max WS	A TR_200 8H	51.10	0.00	51.10	0.00					268.54	268.59	268.21	267.64	267.23
unico	28.99	Max WS	A TR_200 12H	43.49	0.00	43.48	0.00					268.54	268.38	268.02	267.46	267.14
unico	28.99	Max WS	A TR_30 1H	8.60	0.00	8.59	0.00					268.54	266.84	266.64	265.90	265.80
unico	28.99	Max WS	A TR_30 2H	15.70	0.00	15.70	0.00					268.54	267.29	267.02	266.26	266.09
unico	28.99	Max WS	A TR_30 3H	19.79	0.00	19.77	0.00					268.54	267.49	267.21	266.46	266.27
unico	28.99	Max WS	A TR_30 4H	21.60	0.00	21.59	0.00					268.54	267.57	267.28	266.56	266.35
unico	28.99	Max WS	A TR_30 6H	21.99	0.00	21.97	0.00					268.54	267.59	267.30	266.57	266.37
unico	28.99	Max WS	A TR_30 8H	20.99	0.00	20.97	0.00					268.54	267.55	267.26	266.52	266.32
unico	28.99	Max WS	A TR_30 12H	18.30	0.00	18.30	0.00					268.54	267.42	267.14	266.39	266.20
unico	28.97	Max WS	A TR_200 1H	28.89	0.00	27.04	0.00					268.27	267.89	267.58	266.99	266.82
unico	28.97	Max WS	A TR_200 2H	47.35	0.00	47.35	0.00					268.27	268.49	268.12	267.55	267.18
unico	28.97	Max WS	A TR_200 3H	55.29	0.00	55.27	0.00					268.27	268.71	268.32	267.76	267.30
unico	28.97	Max WS	A TR_200 4H	57.45	0.00	57.45	0.00					268.27	268.77	268.37	267.82	267.35
unico	28.97	Max WS	A TR_200 6H	55.30	0.00	55.30	0.00					268.27	268.71	268.32	267.76	267.31
unico	28.97	Max WS	A TR_200 8H	51.10	0.00	51.10	0.00					268.27	268.59	268.21	267.64	267.23
unico	28.97	Max WS	A TR_200 12H	43.49	0.00	43.48	0.00					268.27	268.38	268.02	267.46	267.14
unico	28.97	Max WS	A TR_30 1H	8.60	0.00	8.59	0.00					268.27	266.84	266.64	265.90	265.80
unico	28.97	Max WS	A TR_30 2H	15.70	0.00	15.70	0.00					268.27	267.29	267.02	266.26	266.09
unico	28.97	Max WS	A TR_30 3H	19.79	0.00	19.77	0.00					268.27	267.49	267.21	266.46	266.27
unico	28.97	Max WS	A TR_30 4H	21.60	0.00	21.59	0.00					268.27	267.57	267.28	266.56	266.35
unico	28.97	Max WS	A TR_30 6H	21.99	0.00	21.97	0.00					268.27	267.59	267.30	266.57	266.37
unico	28.97	Max WS	A TR_30 8H	20.99	0.00	20.97	0.00					268.27	267.55	267.26	266.52	266.32
unico	28.97	Max WS	A TR_30 12H	18.30	0.00	18.30	0.00					268.27	267.42	267.14	266.39	266.20
unico	25.98	Max WS	A TR_200 1H	27.16	0.00	26.02	0.00					267.17	266.94	266.85	266.71	266.58
unico	25.98	Max WS	A TR_200 2H	47.32	0.00	42.24	0.00					267.17	267.43	267.28	267.13	266.86
unico	25.98	Max WS	A TR_200 3H	55.27	0.00	44.03	0.00					267.17	267.55	267.35	267.23	266.95
unico	25.98	Max WS	A TR_200 4H	57.42	0.00	44.49	0.00					267.17	267.58	267.37	267.25	266.97
unico	25.98	Max WS	A TR_200 6H	55.30	0.00	44.03	0.00					267.17	267.55	267.35	267.23	266.95
unico	25.98	Max WS	A TR_200 8H	51.10	0.00	43.11	0.00					267.17	267.49	267.32	267.18	266.90
unico	25.98	Max WS	A TR_200 12H	43.49	0.00	41.20	0.00					267.17	267.37	267.24	267.07	266.80
unico	25.98	Max WS	A TR_30 1H	8.60	0.00	8.59	0.00					267.17	265.64	265.58	265.35	265.30
unico	25.98	Max WS	A TR_30 2H	15.70	0.00	15.69	0.00					267.17	266.14	266.05	265.83	265.73
unico	25.98	Max WS	A TR_30 3H	19.75	0.00	19.74	0.00					267.17	266.37	266.28	266.07	265.95
unico	25.98	Max WS	A TR_30 4H	21.58	0.00	21.57	0.00					267.17	266.47	266.38	266.17	266.04
unico	25.98	Max WS	A TR_30 6H	21.96	0.00	21.96	0.00					267.17	266.50	266.40	266.20	266.06
unico	25.98	Max WS	A TR_30 8H	20.96	0.00	20.96	0.00					267.17	266.44	266.34	266.14	266.01
unico	25.98	Max WS	A TR_30 12H	18.30	0.00	18.30	0.00					267.17	266.29	266.20	265.99	265.87
unico	25.97	Max WS	A TR_200 1H	27.16	0.00	26.02	0.00					266.69	266.94	266.85	266.71	266.58
unico	25.97	Max WS	A TR_200 2H	47.32	5.12	42.24	5.12		110.90	0.17	0.08	266.69	267.43	267.28	267.13	266.86
unico	25.97	Max WS	A TR_200 3H	55.27	11.25	44.03	11.25		121.42	0.26	0.13	266.69	267.55	267.35	267.23	266.95
unico	25.97	Max WS	A TR_200 4H	57.42	12.96	44.49	12.96		121.62	0.28	0.15	266.69	267.58	267.37	267.25	266.97
unico	25.97	Max WS	A TR_200 6H	55.30	11.27	44.03	11.27		121.42	0.26	0.13	266.69	267.55	267.35	267.23	266.95
unico	25.97	Max WS	A TR_200 8H	51.10	7.98	43.11	7.98		120.38	0.21	0.11	266.69	267.49	267.32	267.18	266.90
unico	25.97	Max WS	A TR_200 12H	43.49	2.29	41.20	2.29		88.97	0.11	0.06	266.69	267.37	267.24	267.07	266.80
unico	25.97	Max WS	A TR_30 1H	8.60	0.00	8.59	0.00					266.69	265.64	265.58	265.35	265.30
unico	25.97	Max WS	A TR_30 2H	15.70	0.00	15.69	0.00					266.69	266.14	266.05	265.83	265.73
unico	25.97	Max WS	A TR_30 3H	19.75	0.00	19.74	0.00					266.69	266.37	266.28	266.07	265.95
unico	25.97	Max WS	A TR_30 4H	21.58	0.00	21.57	0.00					266.69	266.47	266.38	266.17	266.04
unico	25.97	Max WS	A TR_30 6H	21.96	0.00	21.96	0.00					266.69	266.50	266.40	266.20	266.06
unico	25.97	Max WS	A TR_30 8H	20.96	0.00	20.96	0.00					266.69	266.44	266.34	266.14	266.01
unico	25.97	Max WS	A TR_30 12H	18.30	0.00	18.30	0.00					266.69	266.29	266.20	265.99	265.87
unico	22.98	Max WS	A TR_200 1H	29.74	0.00	28.71	0.00					264.17	266.30	265.87	263.38	263.26
unico	22.98	Max WS	A TR_200 2H	42.23	0.00	42.13	0.00					264.17	266.78	266.13	263.89	263.76
unico	22.98	Max WS	A TR_200 3H	44.03	0.00	43.88	0.00					264.17	266.85	266.17	263.95	263.82
unico	22.98	Max WS	A TR_200 4H	44.49	0.00	44.32	0.00					264.17	266.86	266.18	263.97	263.83
unico	22.98	Max WS	A TR_200 6H	44.03	0.00	43.93	0.00					264.17	266.85	266.17	263.96	263.82
unico	22.98	Max WS	A TR_200 8H	43.11	0.00	43.08	0.00					264.17	266.81	266.15	263.93	263.79
unico	22.98	Max WS	A TR_200 12H	41.20	0.00	41.18	0.00					264.17	266.74	266.11	263.86	263.73
unico	22.98	Max WS	A TR_30 1H	8.59	0.00	8.52	0.00					264.17	265.23	265.11	262.32	262.25
unico	22.98	Max WS	A TR_30 2H	15.69	0.00	15.58	0.00					264.17	265.64	265.42	262.77	262.69
unico	22.98	Max WS	A TR_30 3H	19.74	0.00	19.62	0.00					264.17	265.84	265.55	262.99	262.89
unico	22.98	Max WS	A TR_30 4H	21.57	0.00	21.48	0.00					264.17	265.92	265.60	263.08	262.98
unico	22.98	Max WS	A TR_30 6H	21.96	0.00	21.91	0.00					264.17	265.94	265.62	263.10	263.00
unico	22.98	Max WS	A TR_30 8H	20.96	0.00	20.91	0.00					264.17	265.89	265.59	263.05	262.95
unico	22.98	Max WS	A TR_30 12H	18.30	0.00	18.29	0.00					264.17	265.77	265.50	262.92	262.83
unico	22.97	Max WS	A TR_200 1H	29.74	0.00	28.71	0.00					264.13	266.30	265.87	263.38	263.26
unico	22.97	Max WS	A TR_200 2H	42.23	0.00	42.13	0.00		0.54	0.00	0.00	264.13	266.78	266.13	263.89	263.76
unico	22.97	Max WS	A TR_200 3H	44.03	0.07	43.88	0.07		10.32	0.05	0.02	264.13	266.85	266.17	263.95	263.82
unico	22.97	Max WS	A TR_200 4H	44.49	0.12	44.32	0.12		12.59	0.06	0.03	264.13	266.86	266.18	263.97	263.83
unico	22.97	Max WS	A TR_200 6H	44.03	0.07	43.93	0.07		10.38	0.05	0.02	264.13	266.85	266.17	263.96	263.82
unico	22.97	Max WS	A TR_200 8H	43.11	0.02	43.08	0.02		5.54	0.02	0.01	264.13	266.81	266.15	263.93	263.79
unico	22.97	Max WS	A TR_200 12H	41.20	0.00	41.18	0.00					264.13	266.74	266.11	263.86	263.73
unico	22.97	Max WS	A TR_30 1H	8.59	0.00	8.52	0.00					264.13	265.23	265.11	262.32	262.25
unico	22.97	Max WS	A TR_30 2H	15.69	0.00	15.58	0.00					264.13	265.64	265.42	262.77	262.69
unico	22.97	Max WS	A TR_30 3H	19.74	0.00	19.62	0.00					264.13	265.84	265.55	262.99	262.89
unico	22.97	Max WS	A TR_30 4H	21.57	0.00	21.48	0.00					264.13	265.92	265.60	263.08	262.98
unico	22.97	Max WS	A TR_30 6H	21.96	0.00	21.91	0.00					264.13	265.94	265.62	263.10	263.00
unico	22.97	Max WS	A TR_30 8H	20.96	0.00	20.91	0.00					264.13	265.89	265.59	263.05	262.95
unico	22.97	Max WS	A TR_30 12H	18.30	0.00	18.29	0.00					264.13	265.77	265.50	262.92	262.83
unico	3.97	Max WS	A TR_200 1H	53.76	0.00	53.51	0.00					259.12	258.27	258.03	257.60	257.46
unico	3.97	Max WS	A TR_200 2H	80.19	0.00	80.07	0.00					259.12	258.96	258.70	258.44	258.28
unico	3.97	Max WS	A TR_200 3H	87.38	0.00	87.24	0.00					259.12	259.19	258.94	258.74	258.60
unico	3.97	Max WS	A TR_200 4H	89.43	0.00	89.29	0.00					259.12	259.30	259.06	258.89	258.75
unico	3.97	Max WS	A TR_200 6H	87.62	0.00	87.59	0.00					259.12	259.31	259.08	258.93	258.81
unico	3.97	Max WS	A TR_200 8H	83.15	0.00	83.11	0.00					259.12	259.26	259.05	258.91	258.80
unico	3.97	Max WS	A TR_200 12H	74.85	0.00	74.82	0.00					259.12	259.15	258.97	258.84	258.75
unico	3.97	Max WS	A TR_30 1H	2.99	0.00	18.61	0.00					259.12	257.71	257.71	256.14	256.04
unico	3.97	Max WS	A TR_30 2H	4.17	0.00	31.00	0.00					259.12	257.62	257.62	256.74	256.62
unico	3.97	Max WS	A TR_30 3H	3.80	0.00	37.82	0.00					259.12	257.61	257.60	257.00	256.88
unico	3.97	Max WS	A TR_30 4H	41.07	0.00	40.74	0.00					259.12	257.90	257.68	257.12	257.00
unico	3.97	Max WS	A TR_30 6H	41.24	0.00	40.67	0.00					259.12	257.91	257.70	257.20	257.09
unico	3.97	Max WS	A TR_30 8H	38.97	0.00	38.47	0.00					259.12	257.86	257.66	257.23	257.13
unico	3.97	Max WS	A TR_30 12H	2.98	0.00	33.54	0.00					259.12	257.57	257.57	257.19	257.11

TORRENTE FOENNA

1) A TR_200 8H 2) A TR_30 8H

foenna foenna_02 | foenna foenna_01 | foenna unico

N.B. in grigio sono indicati gli sfioratori laterali in destra idrografica

Legend

- WS Max WS - A TR_200 8H
- WS Max WS - A TR_30 8H
- Ground

Elevation (m)

270
260
250
240
230

0 1000 2000 3000 4000 5000 6000 7000

Main Channel Distance (m)

.28* .36* .44* .52* 0.6 .68* .76* .84* .92* 01 1.5* 02 2.66666* 3.33333* 04 5.5* 06 6.66666* 7.2* 7.6* 08 8.4* 8.8* 10.1666* 10.5* 10.8333* 11.5 12.5* 13 13.5* 14 14.6666* 16.5* 17.5* 18.5* 19.3333* 20 21.5* 22.2* 22.6* 23 24.5* 25 25.4* 25.8* 26.25* 26.75* 27.2* 27.6* 27.89 29 31.1666* 31.5* 31.8333 32.5* 33.25* 33.75* 34.2* 34.6* 35 35.6666* 36.3333* 37 37.99 38.6666* 40.2* 40.6* 41 41.3333* 41.6666* 42 42.4* 42.8* 43.2* 43.6* 44 44.5* 45 45.5* 46 46.5* 47 47.5* 48 48.6666*

1 cm Horiz. = 208 m 1 cm Vert. = 2 m

1) A TR_200 8H 2) A TR_30 8H

foenna foenna_02 | foenna foenna_01 | foenna unico

N.B. in grigio sono indicati gli sfioratori laterali in sinistra idrografica

Legend

- WS Max WS - A TR_200 8H
- WS Max WS - A TR_30 8H
- Ground

Elevation (m)

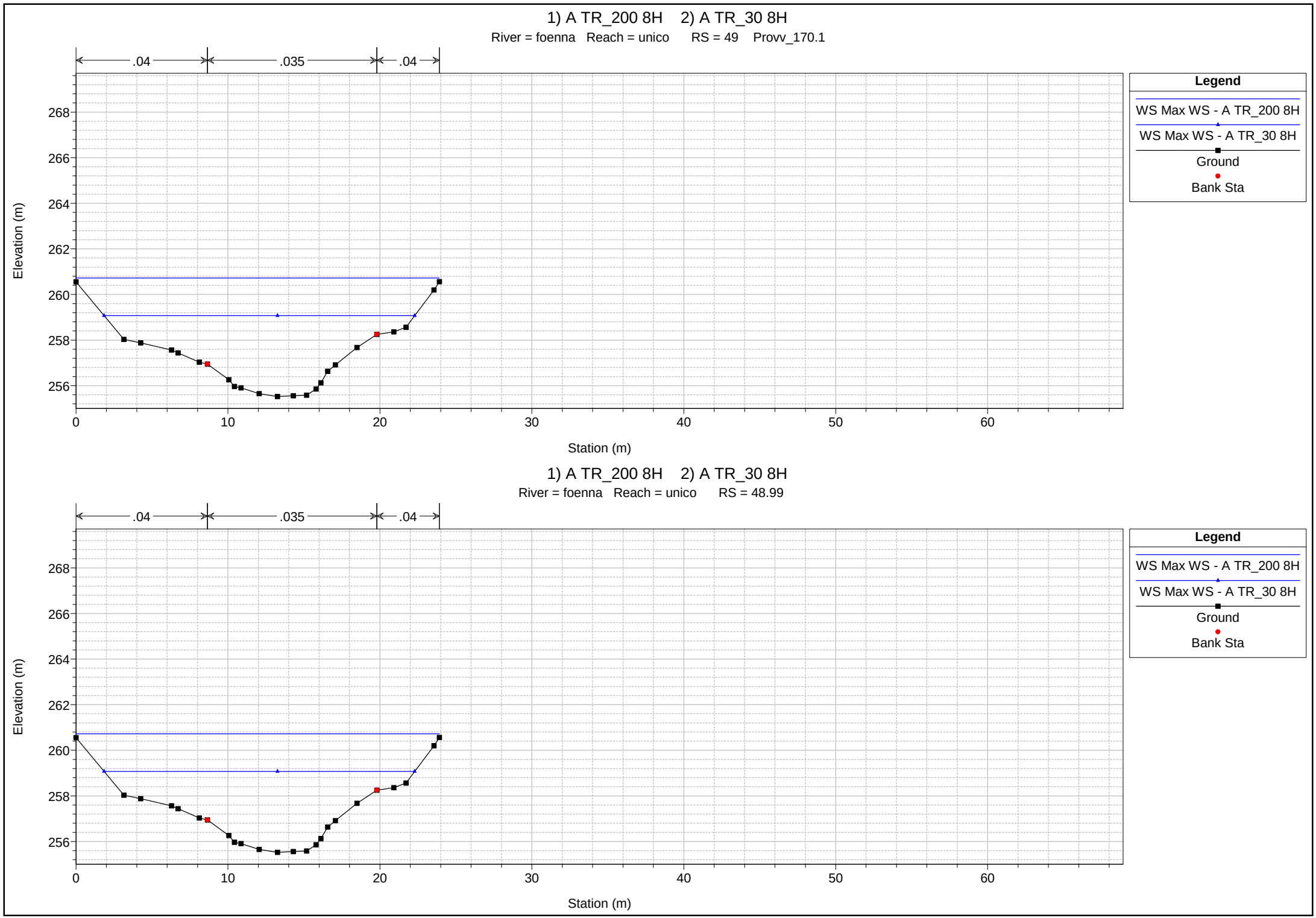
270
260
250
240
230

0 1000 2000 3000 4000 5000 6000 7000

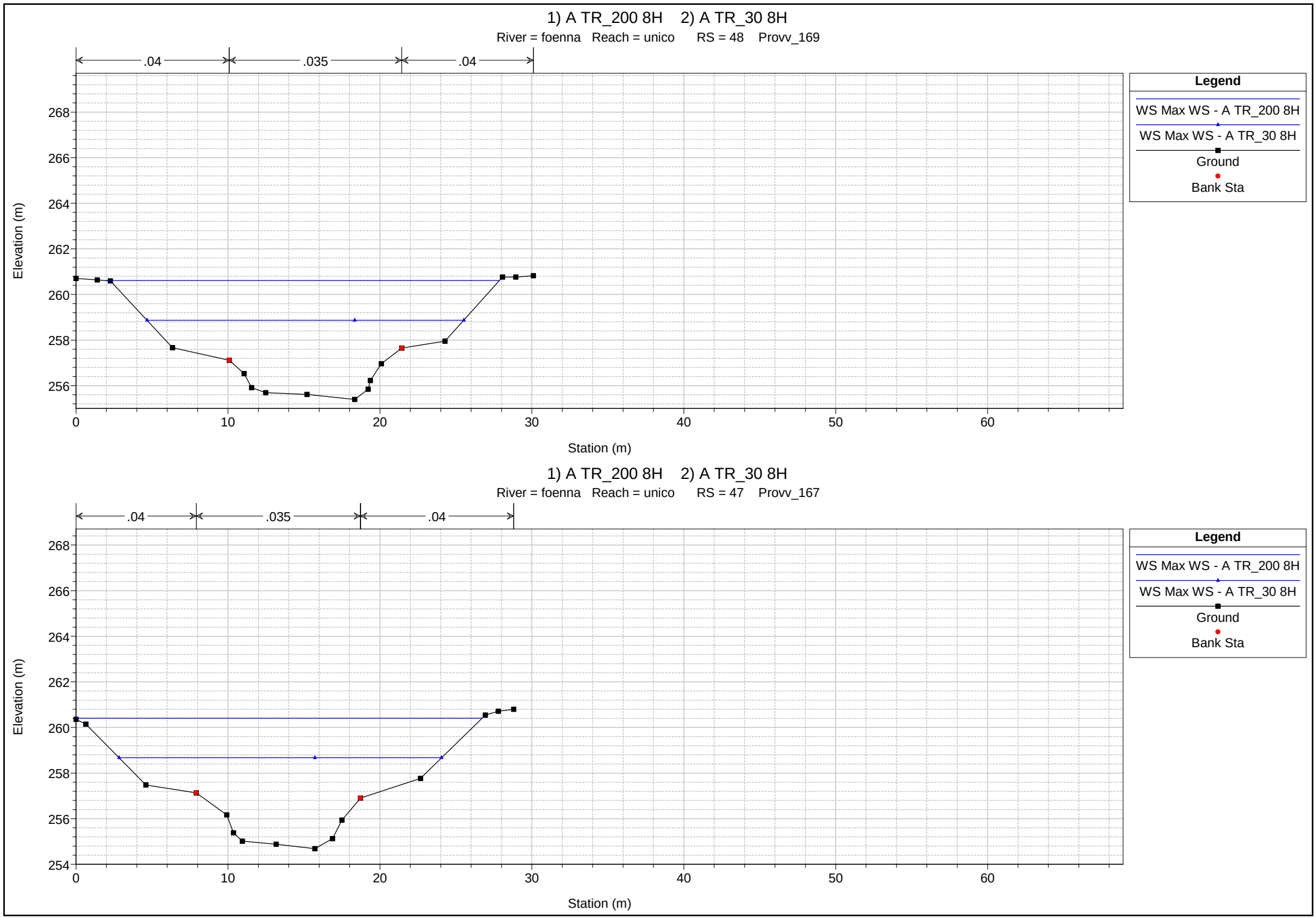
Main Channel Distance (m)

.28* .36* .44* .52* 0.6 .68* .76* .84* .92* 01 1.5* 02 2.66666* 3.33333* 04 5.5* 06 6.66666* 7.2* 7.6* 08 8.4* 8.8* 10.1666* 10.5* 10.8333* 11.5 12.5* 13 13.5* 14 14.6666* 16.5* 17.5* 18.5* 19.3333* 20 21.5* 22.2* 22.6* 23 24.5* 25 25.4* 25.8* 26.25* 26.75* 27.2* 27.6* 27.89 29 31.1666* 31.5* 31.8333 32.5* 33.25* 33.75* 34.2* 34.6* 35 35.6666* 36.3333* 37 37.99 38.6666* 40.2* 40.6* 41 41.3333* 41.6666* 42 42.4* 42.8* 43.2* 43.6* 44 44.5* 45 45.5* 46 46.5* 47 47.5* 48 48.6666*

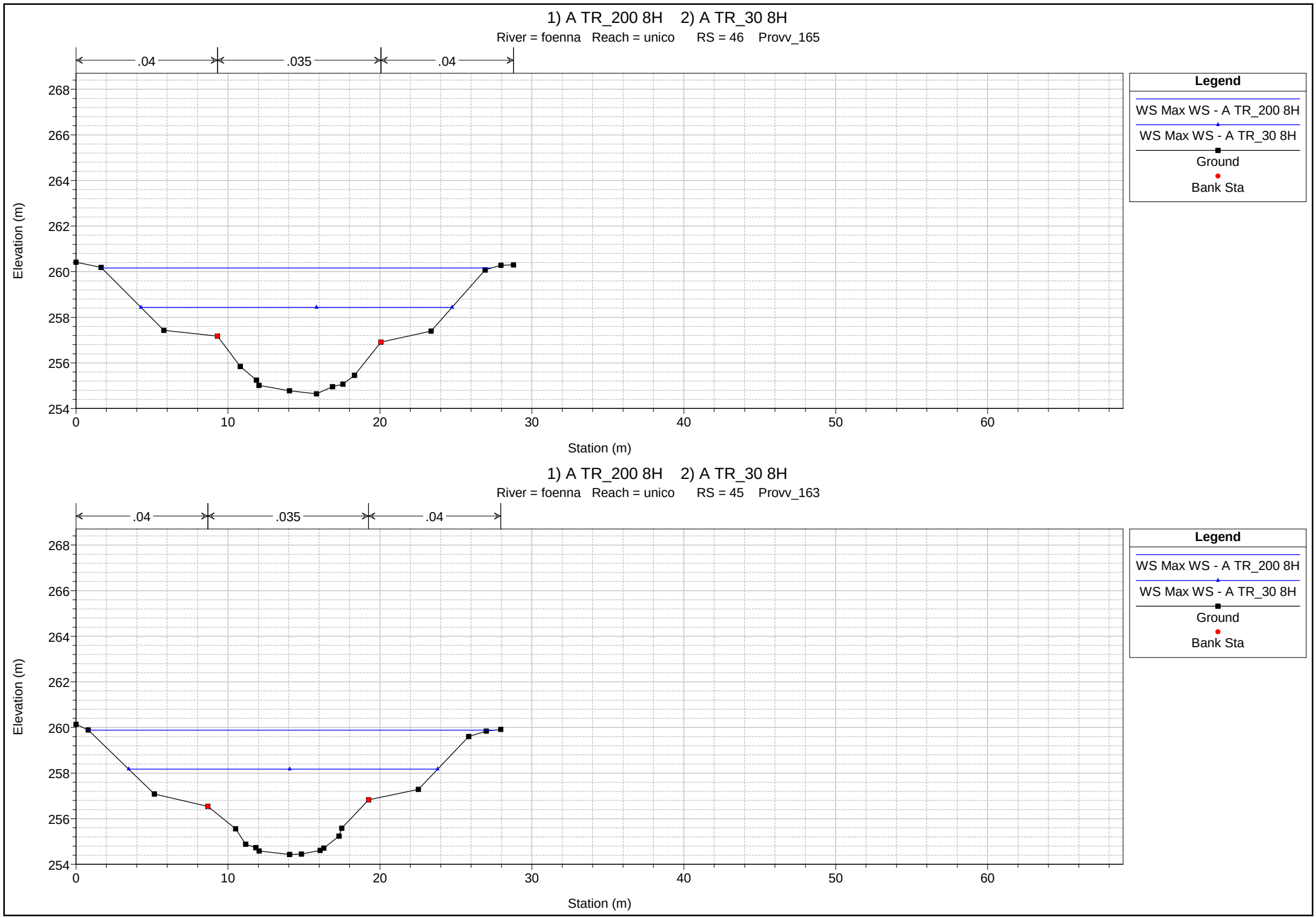
1 cm Horiz. = 208 m 1 cm Vert. = 2 m



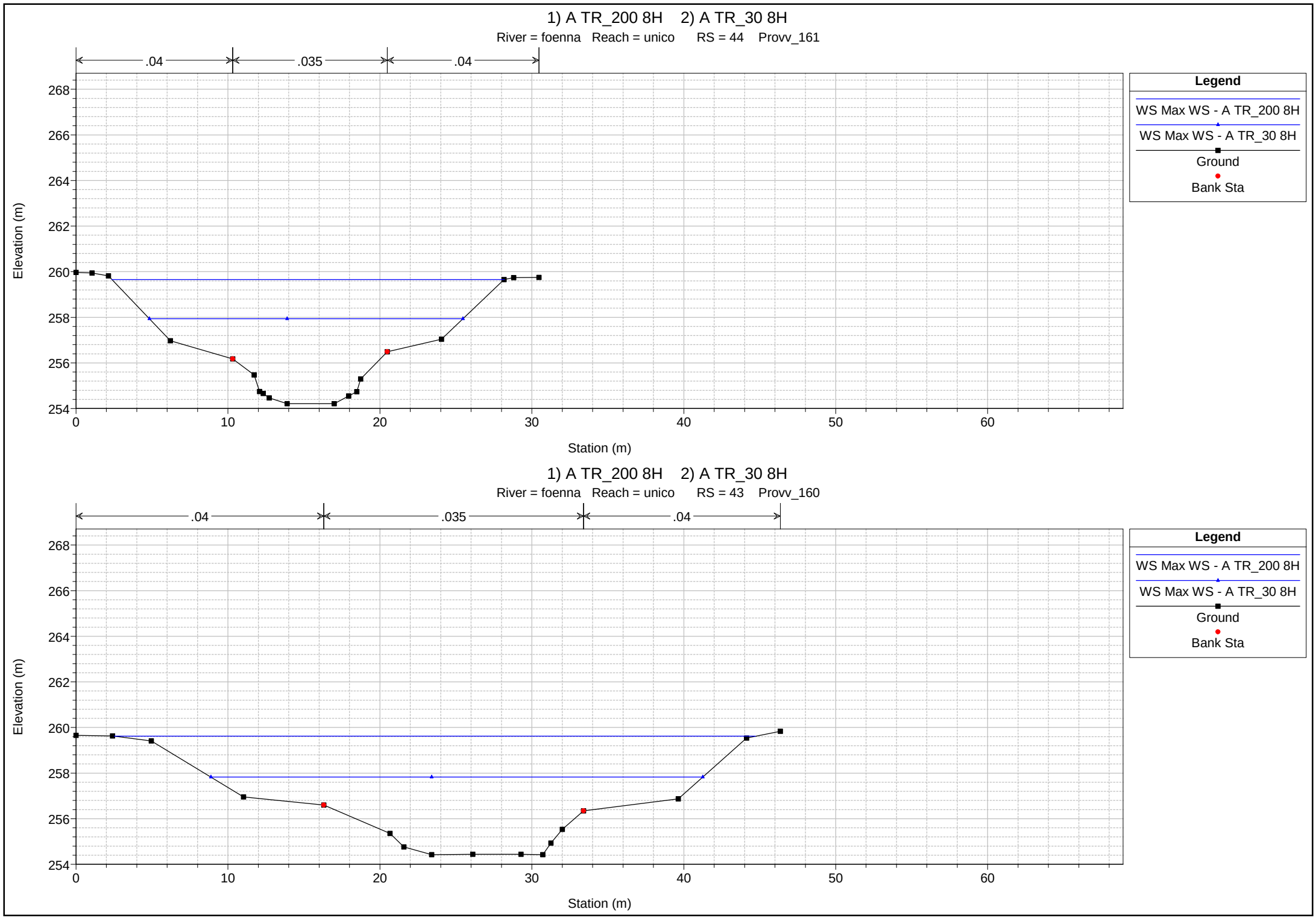
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



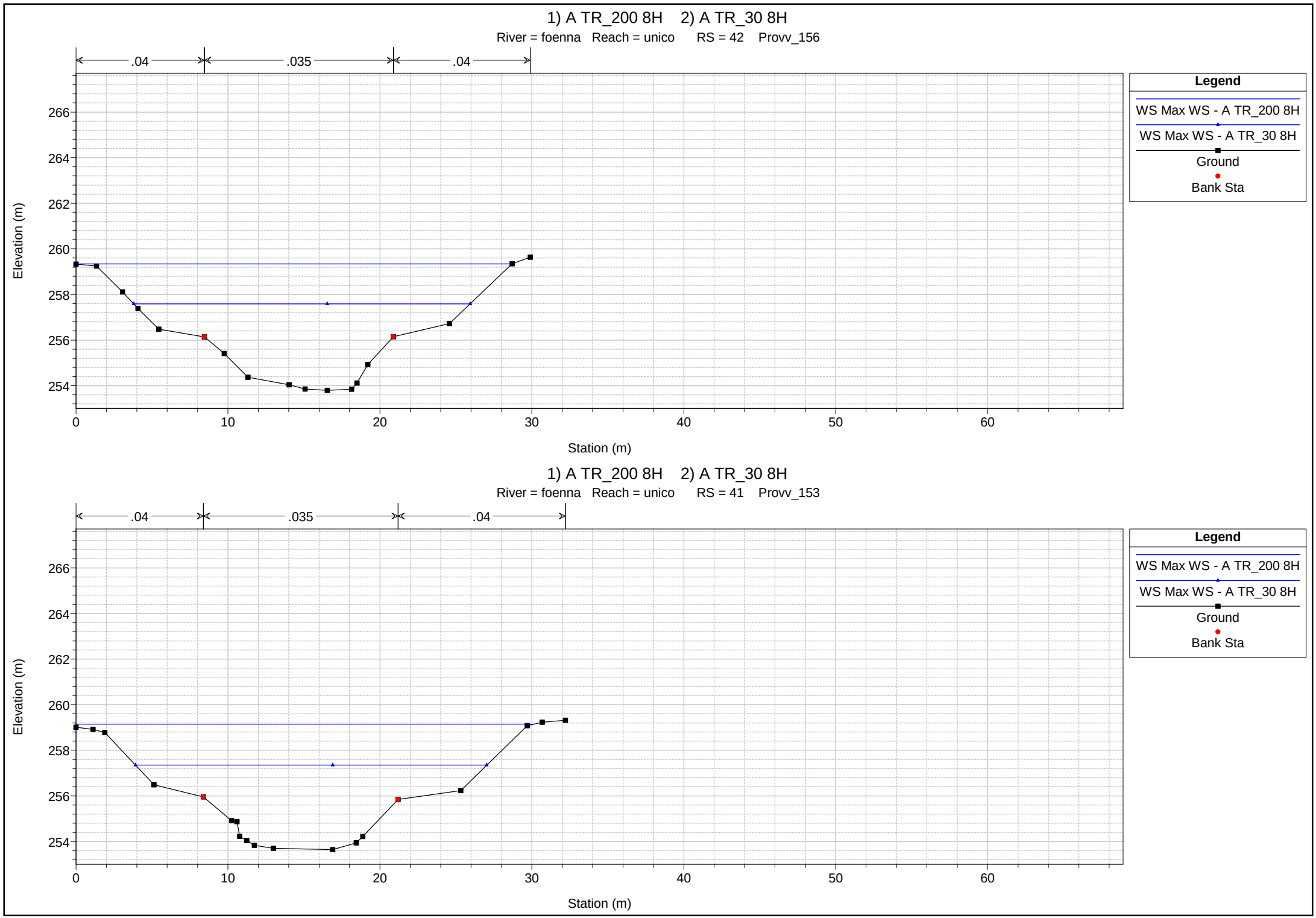
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



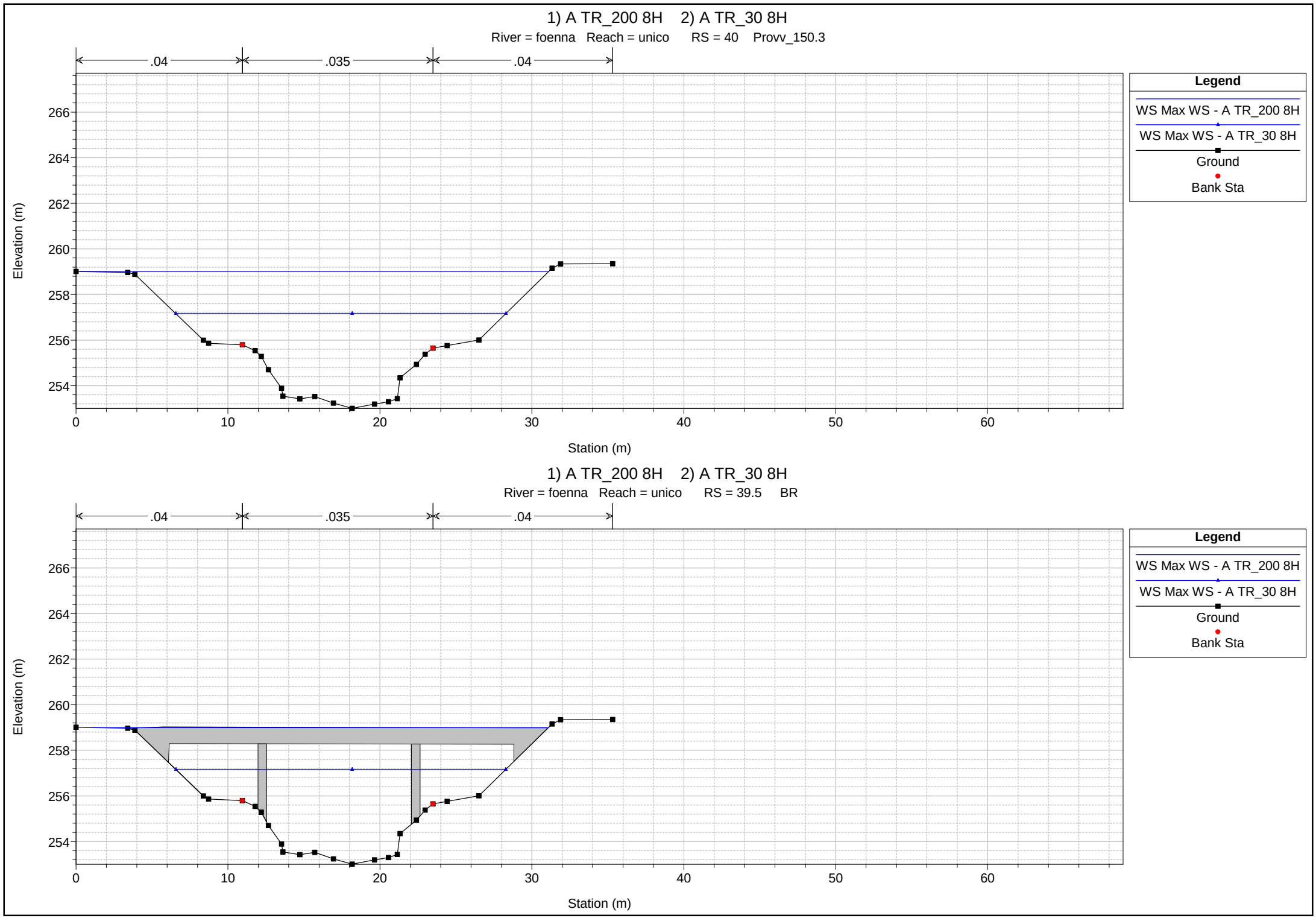
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



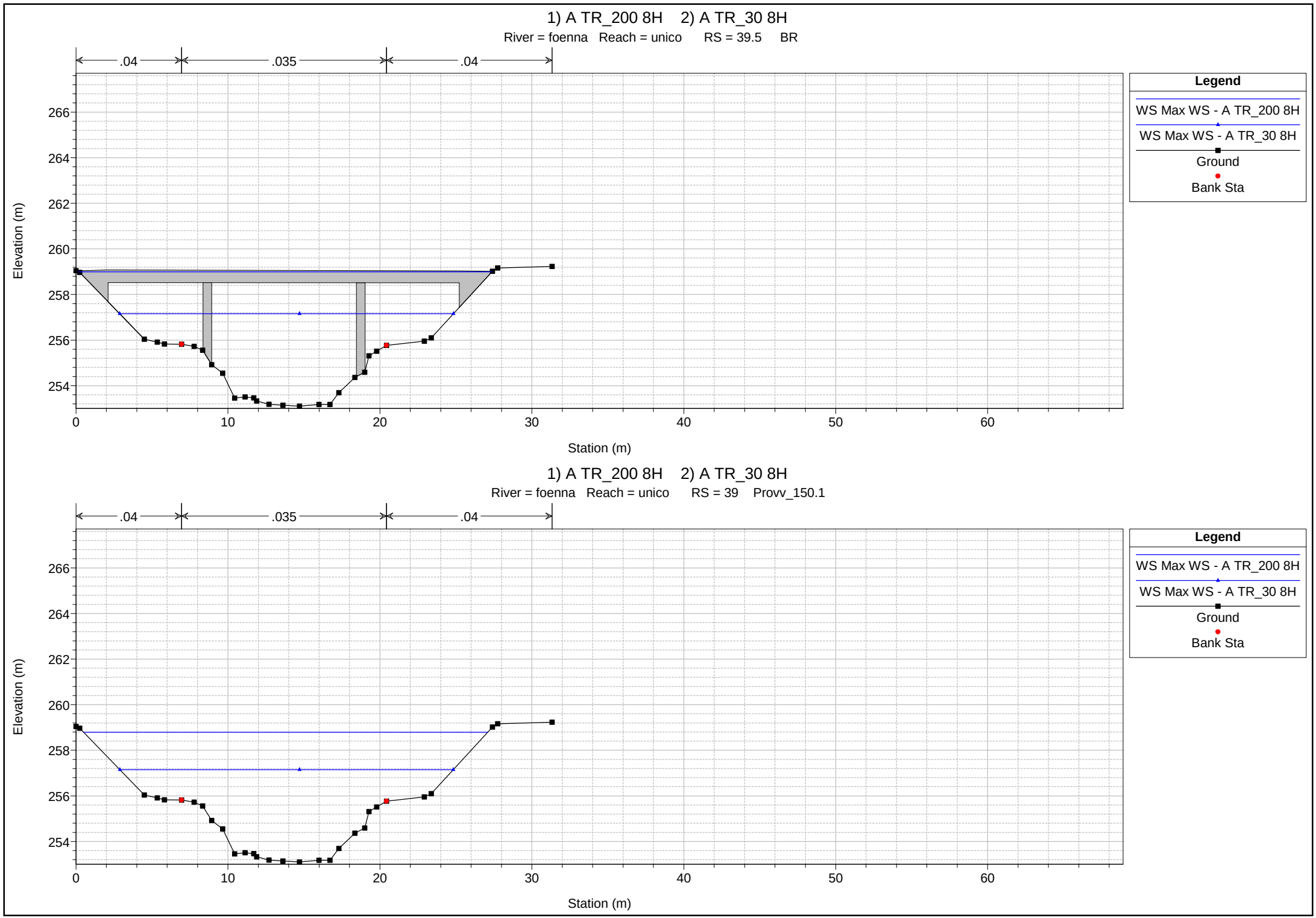
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



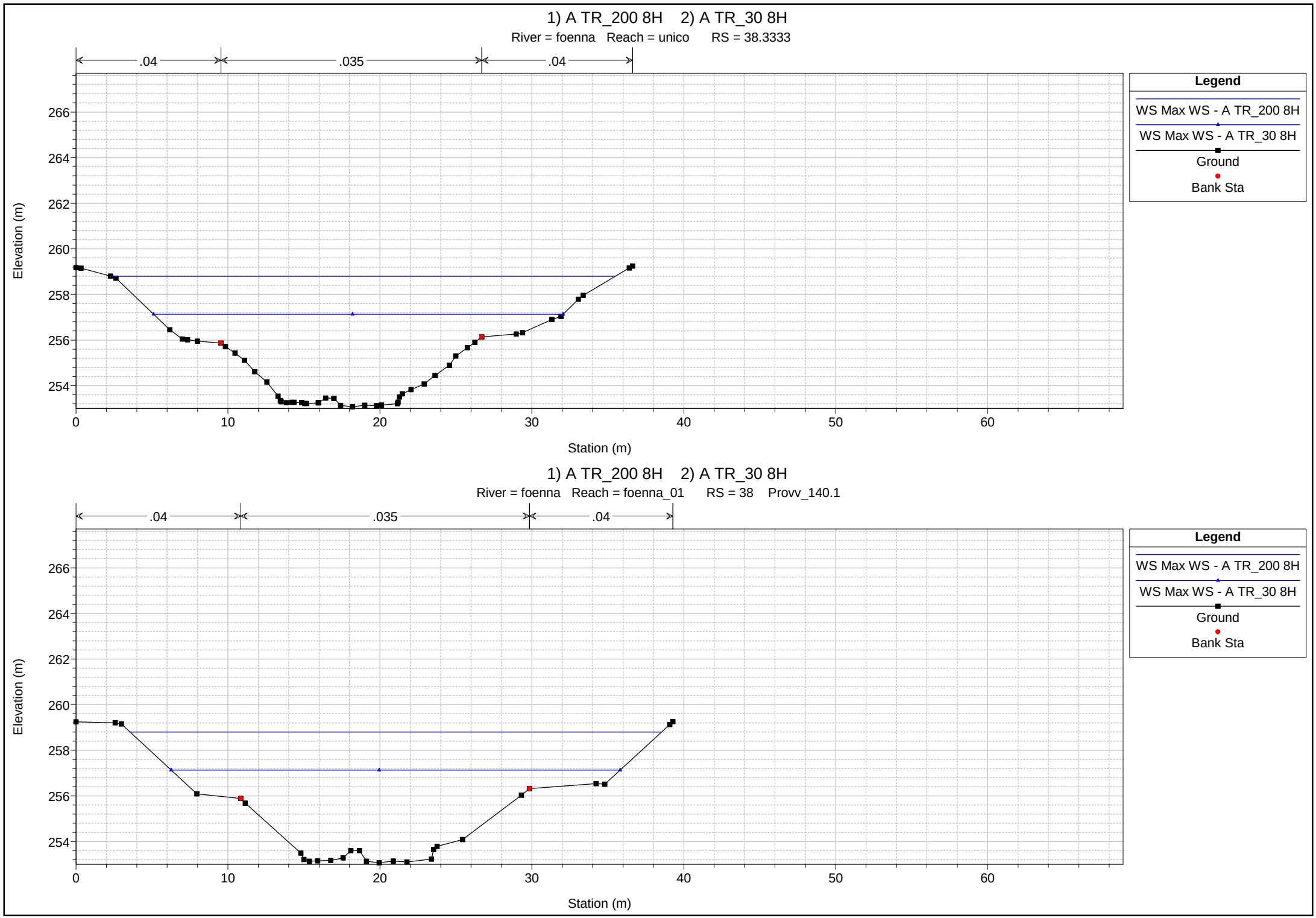
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



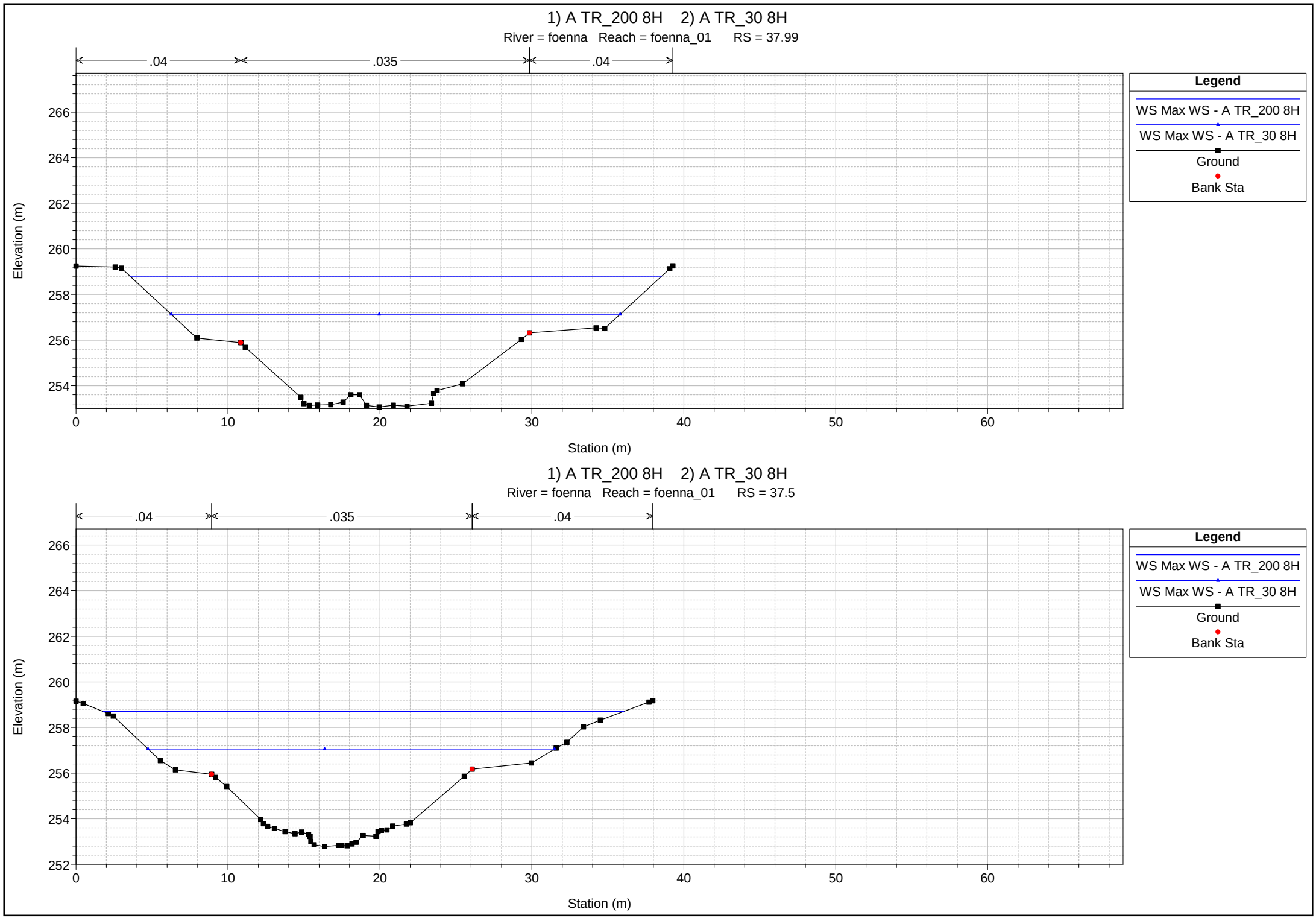
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



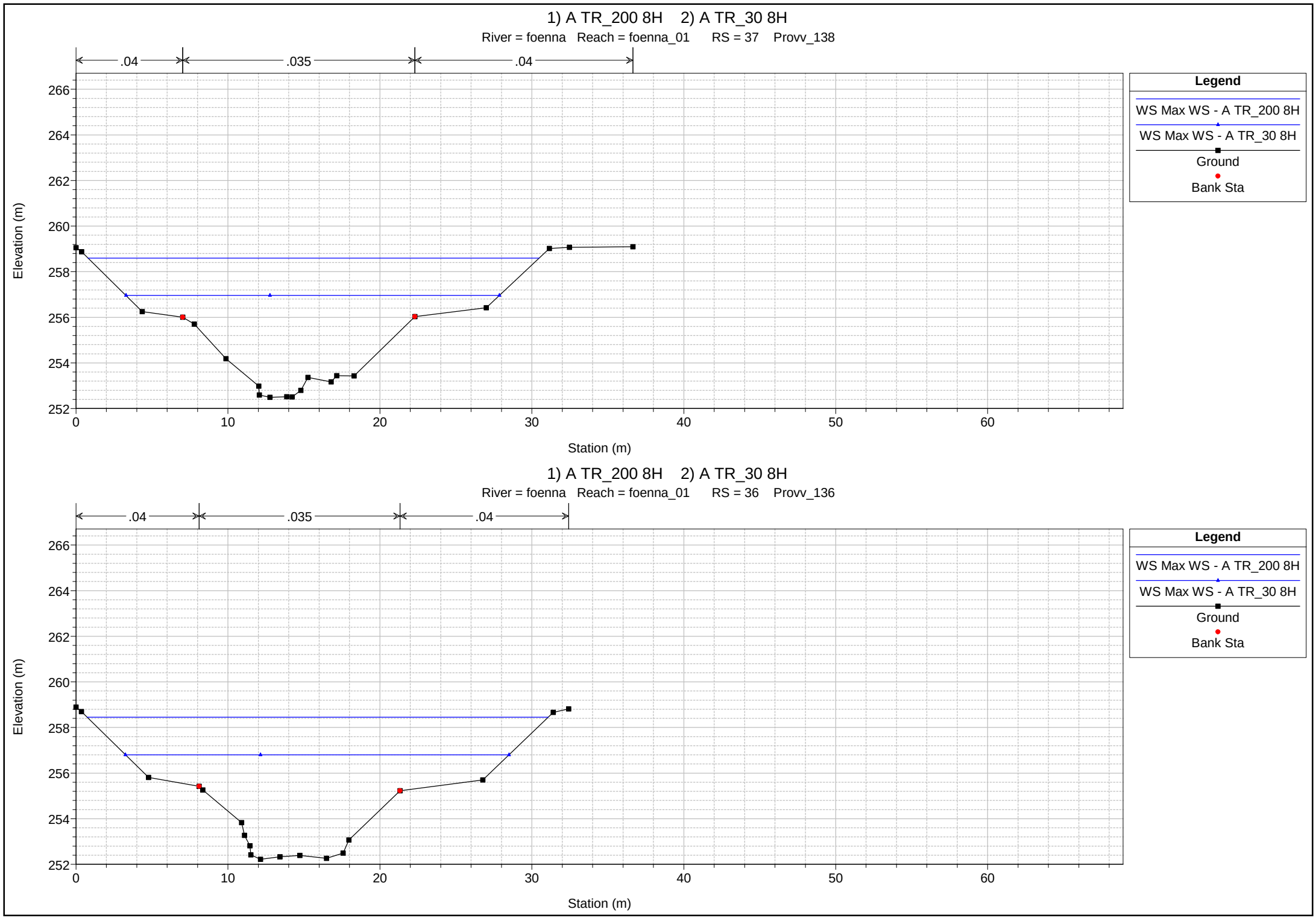
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



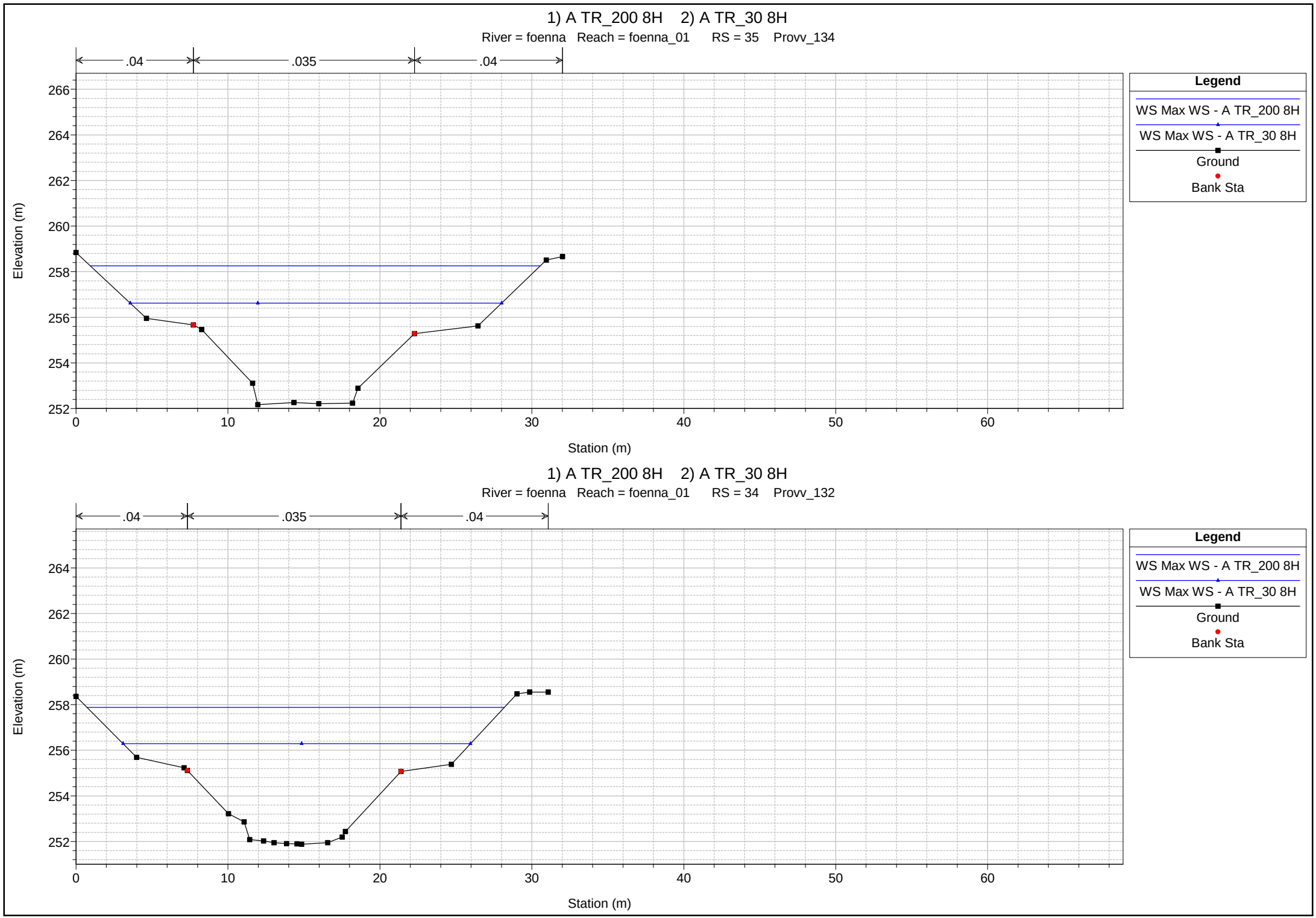
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



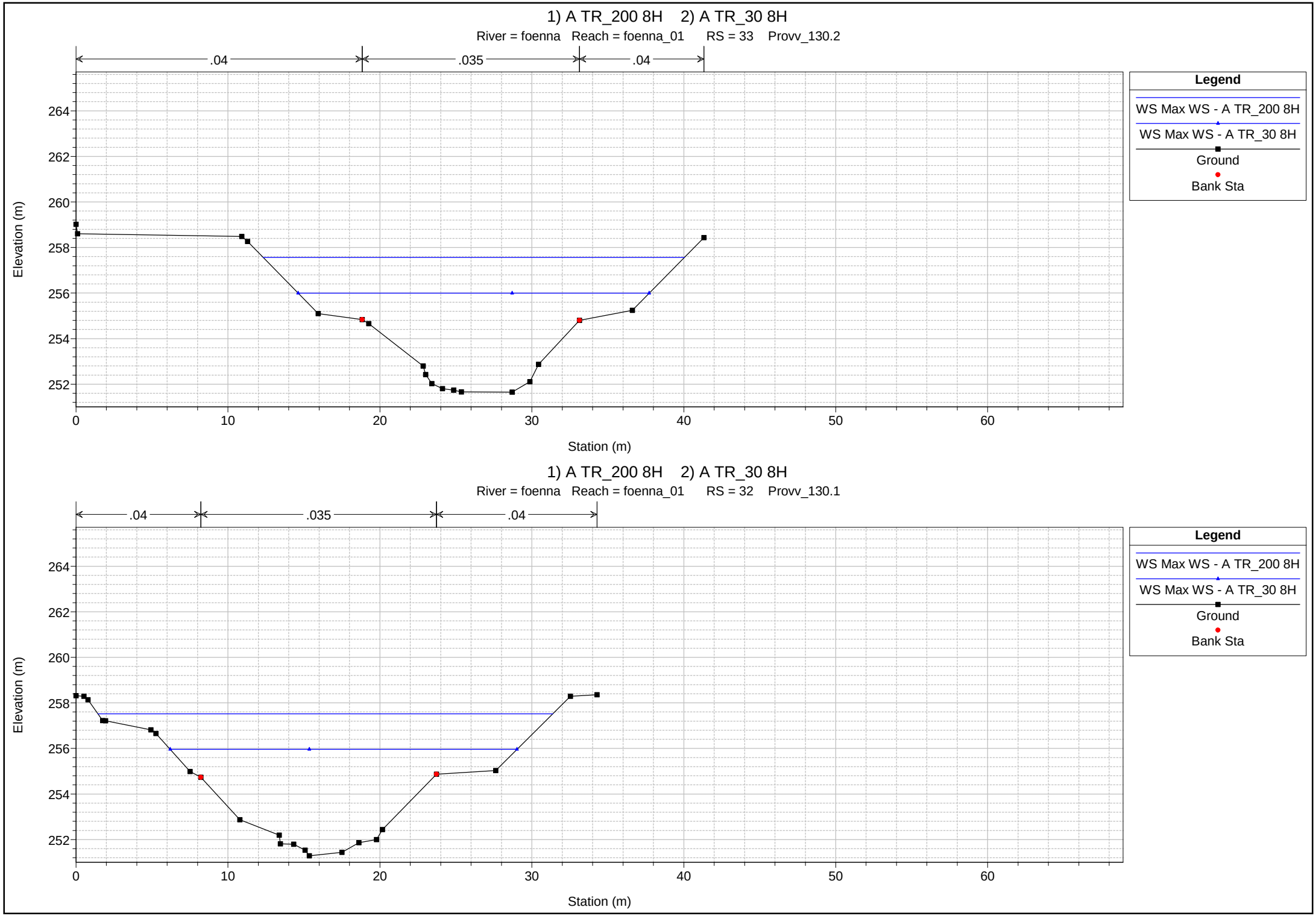
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



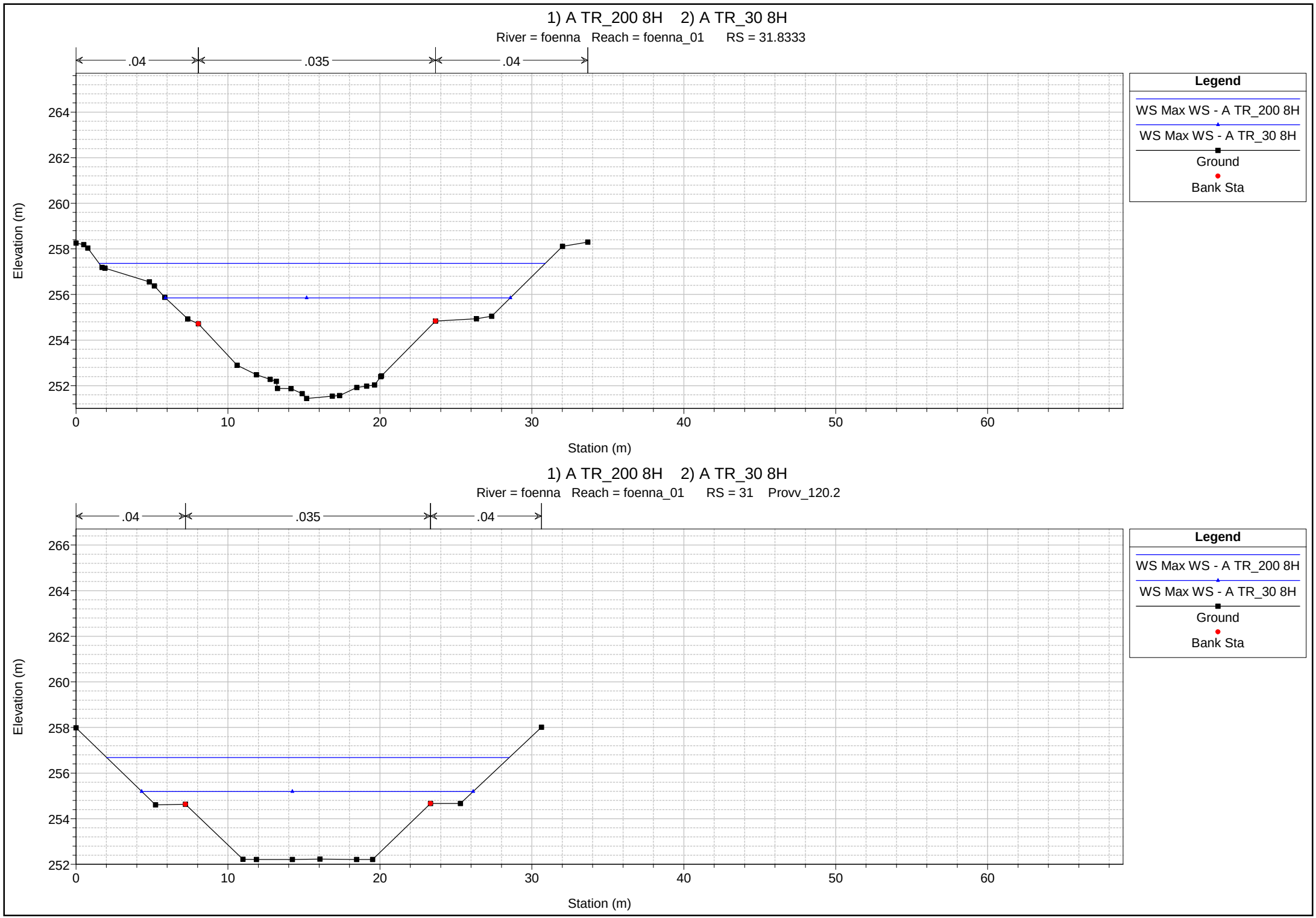
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



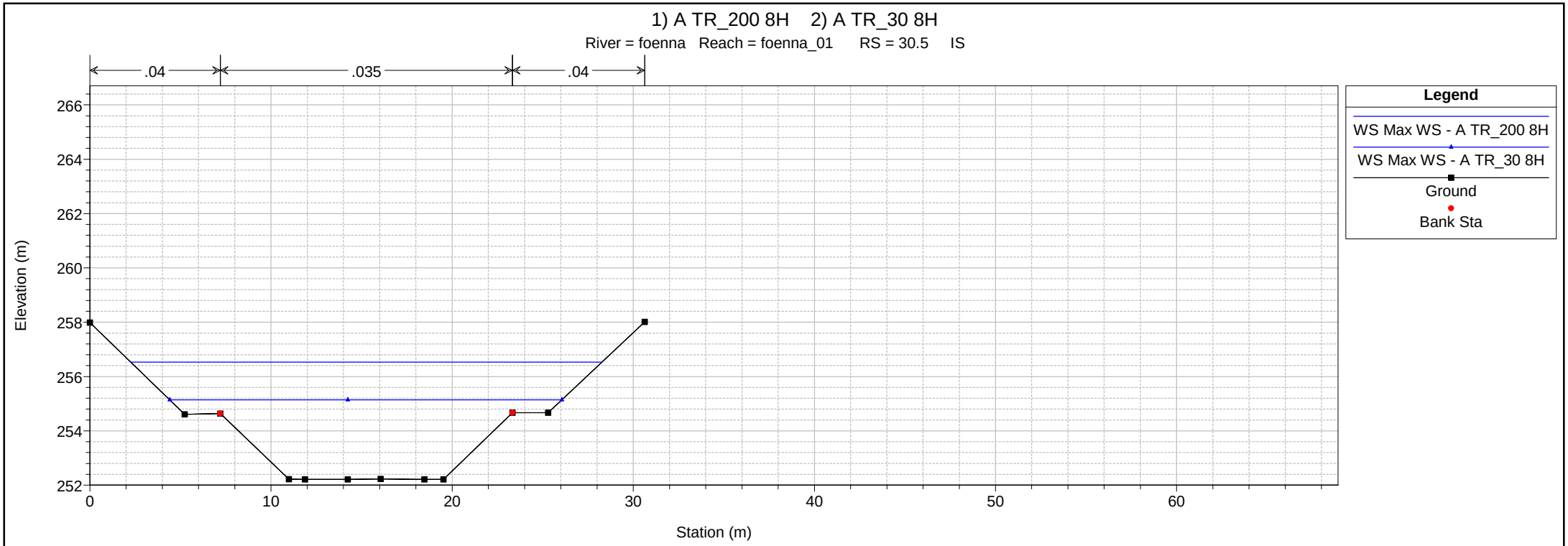
1 cm Horiz. = 3 m 1 cm Vert. = 2 m

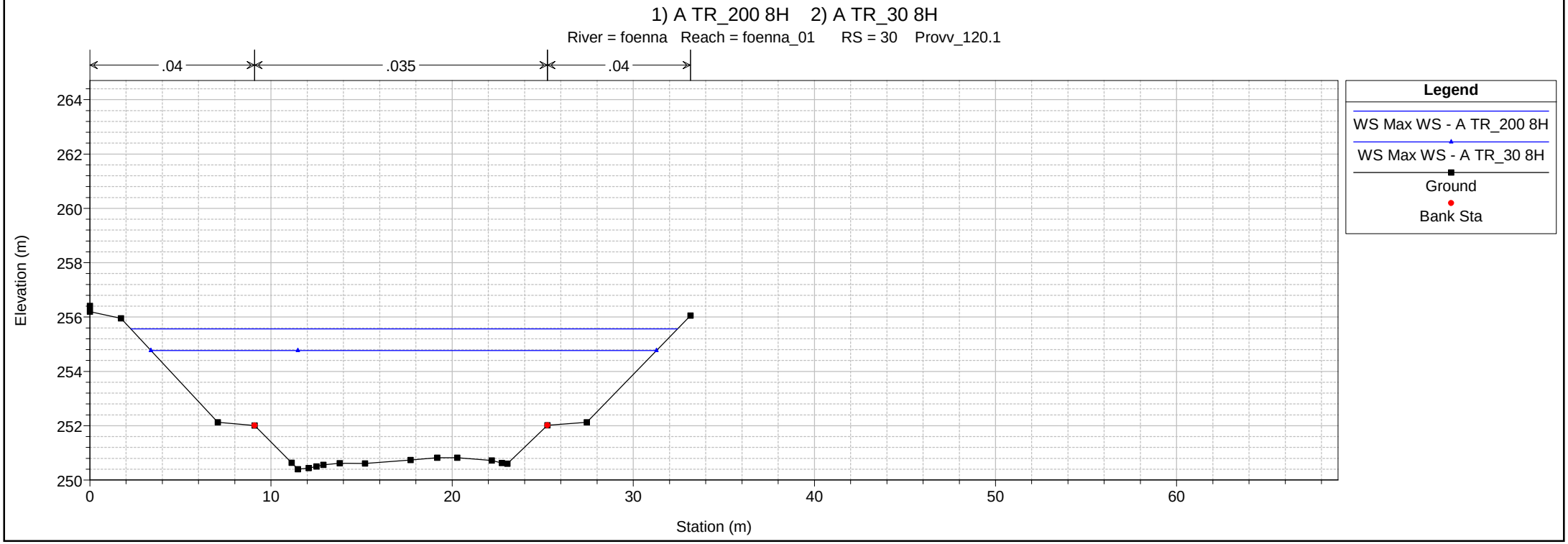


1 cm Horiz. = 3 m 1 cm Vert. = 2 m

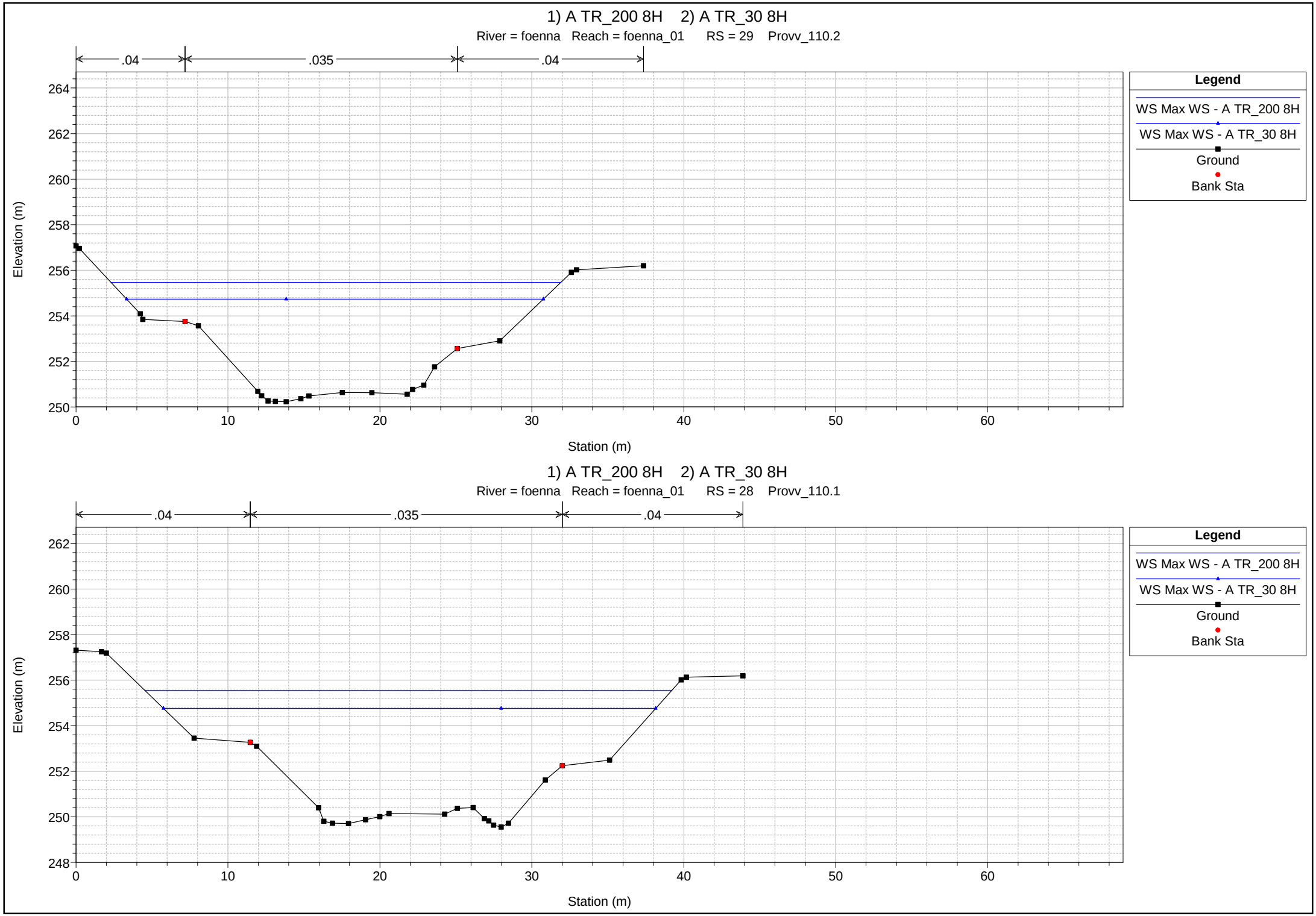


1 cm Horiz. = 3 m 1 cm Vert. = 2 m

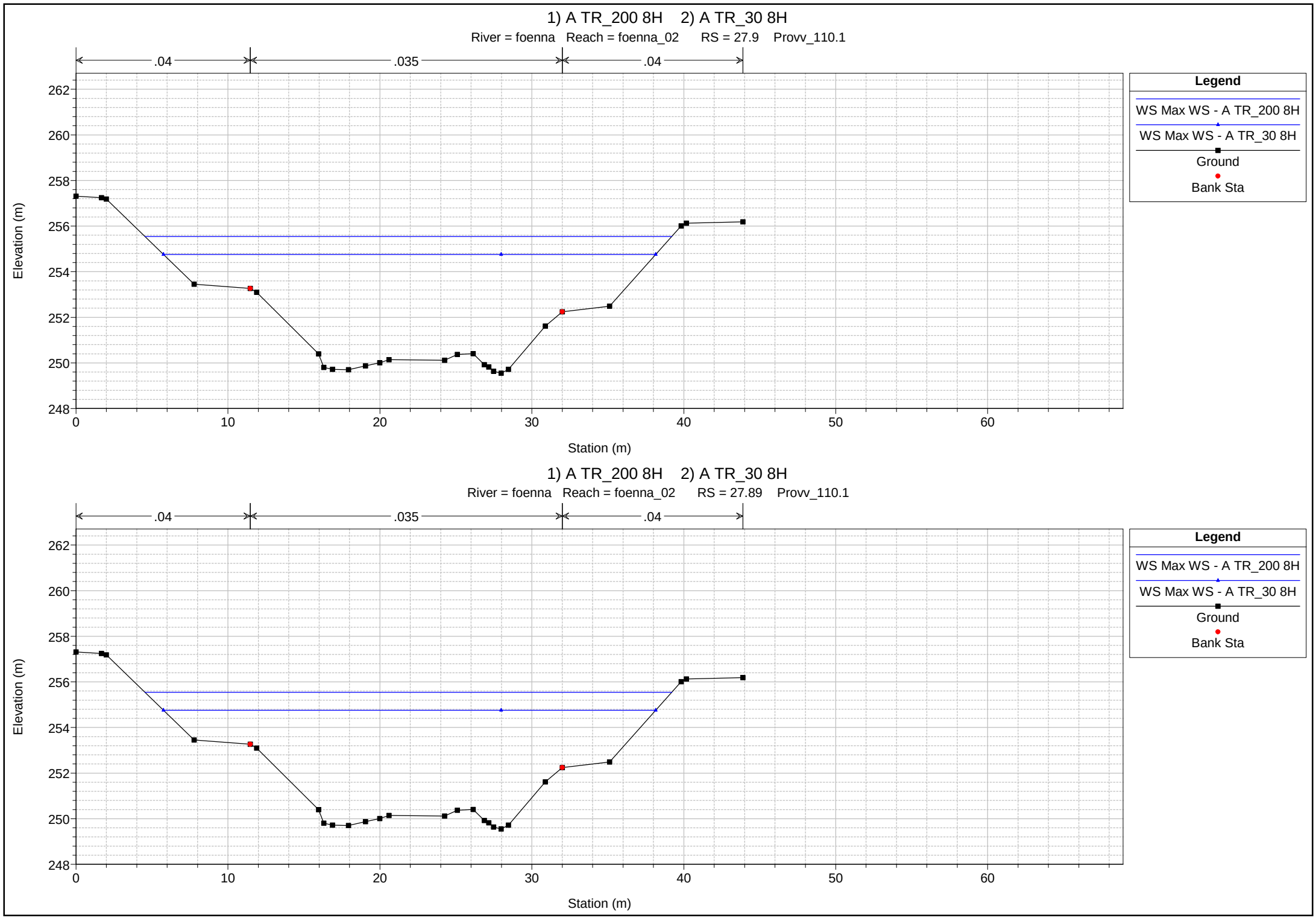




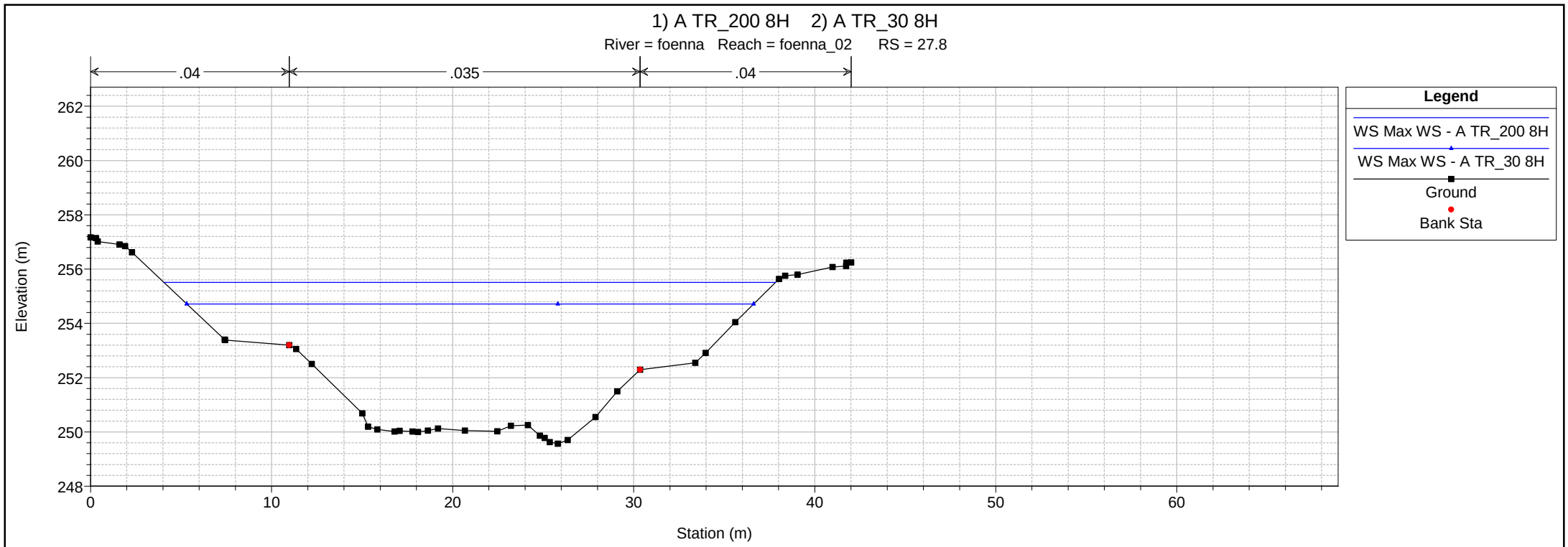
1 cm Horiz. = 3 m 1 cm Vert. = 2 m

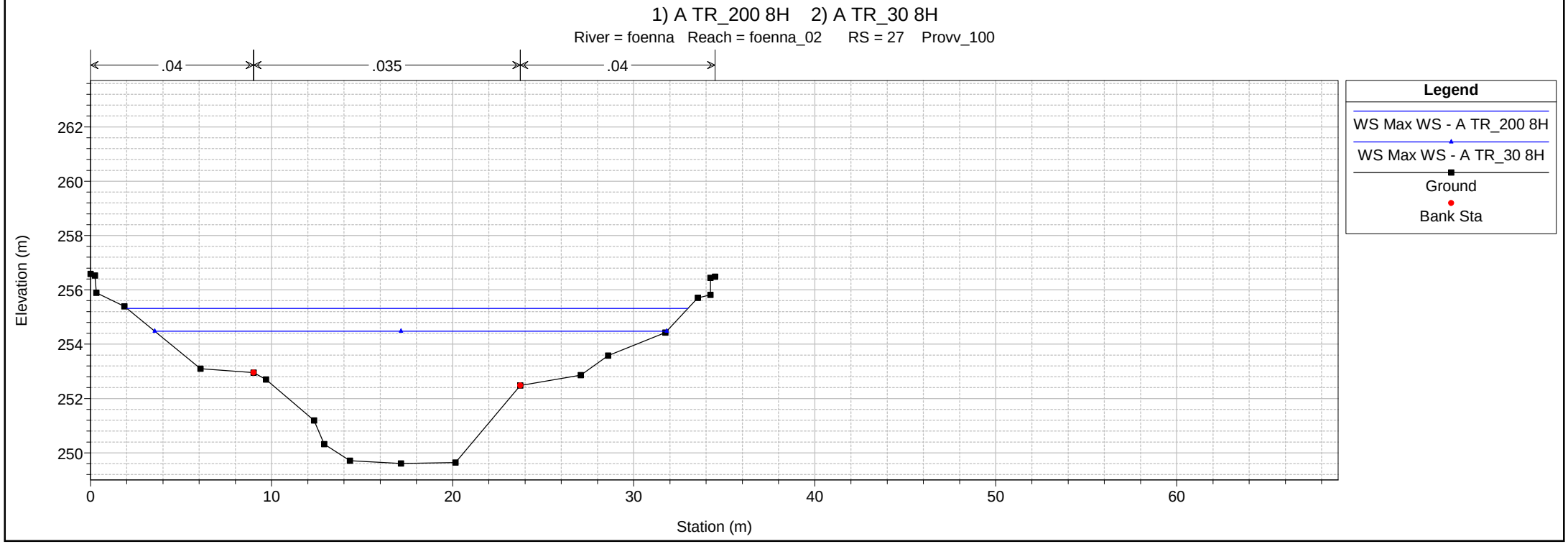


1 cm Horiz. = 3 m 1 cm Vert. = 2 m

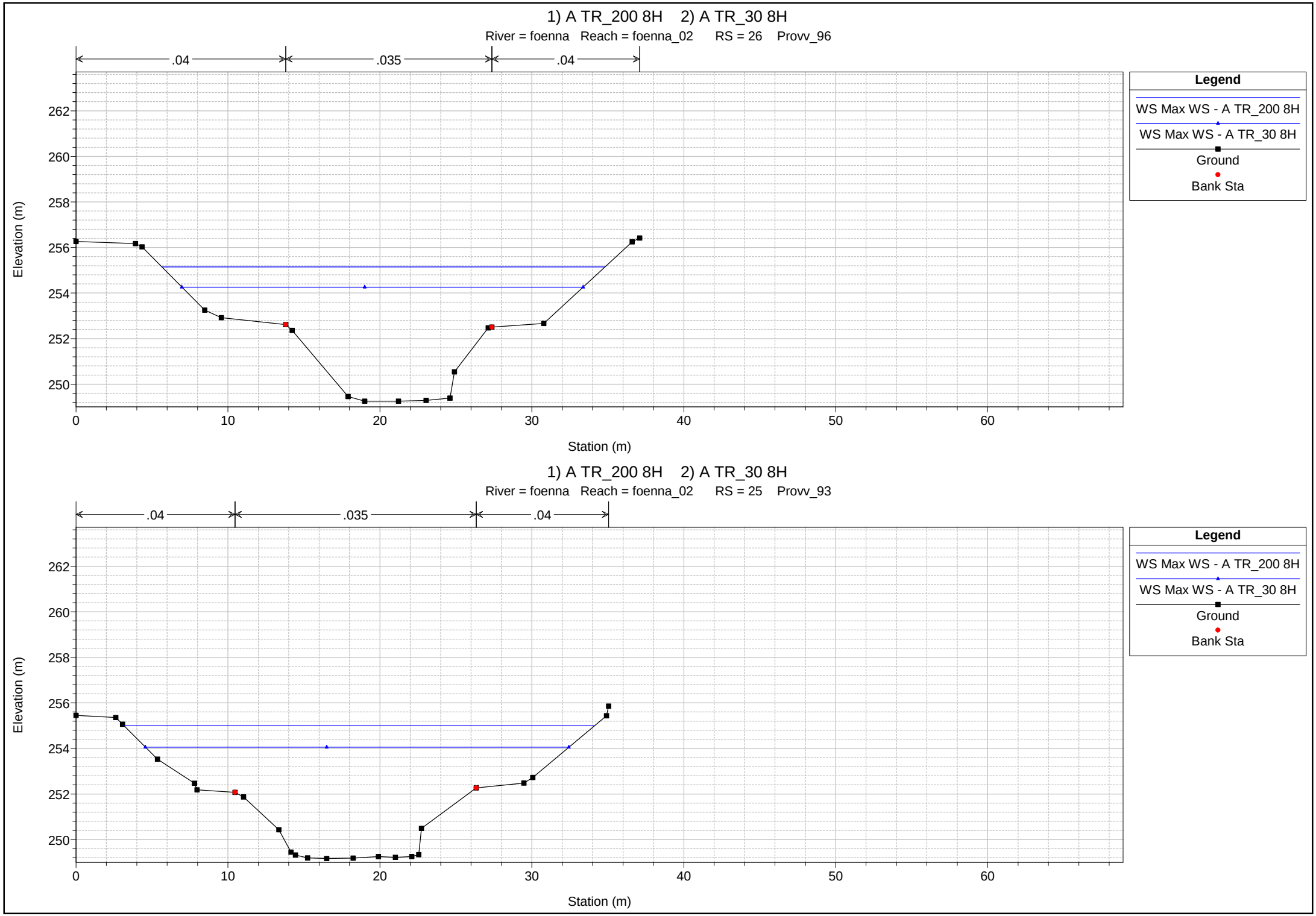


1 cm Horiz. = 3 m 1 cm Vert. = 2 m

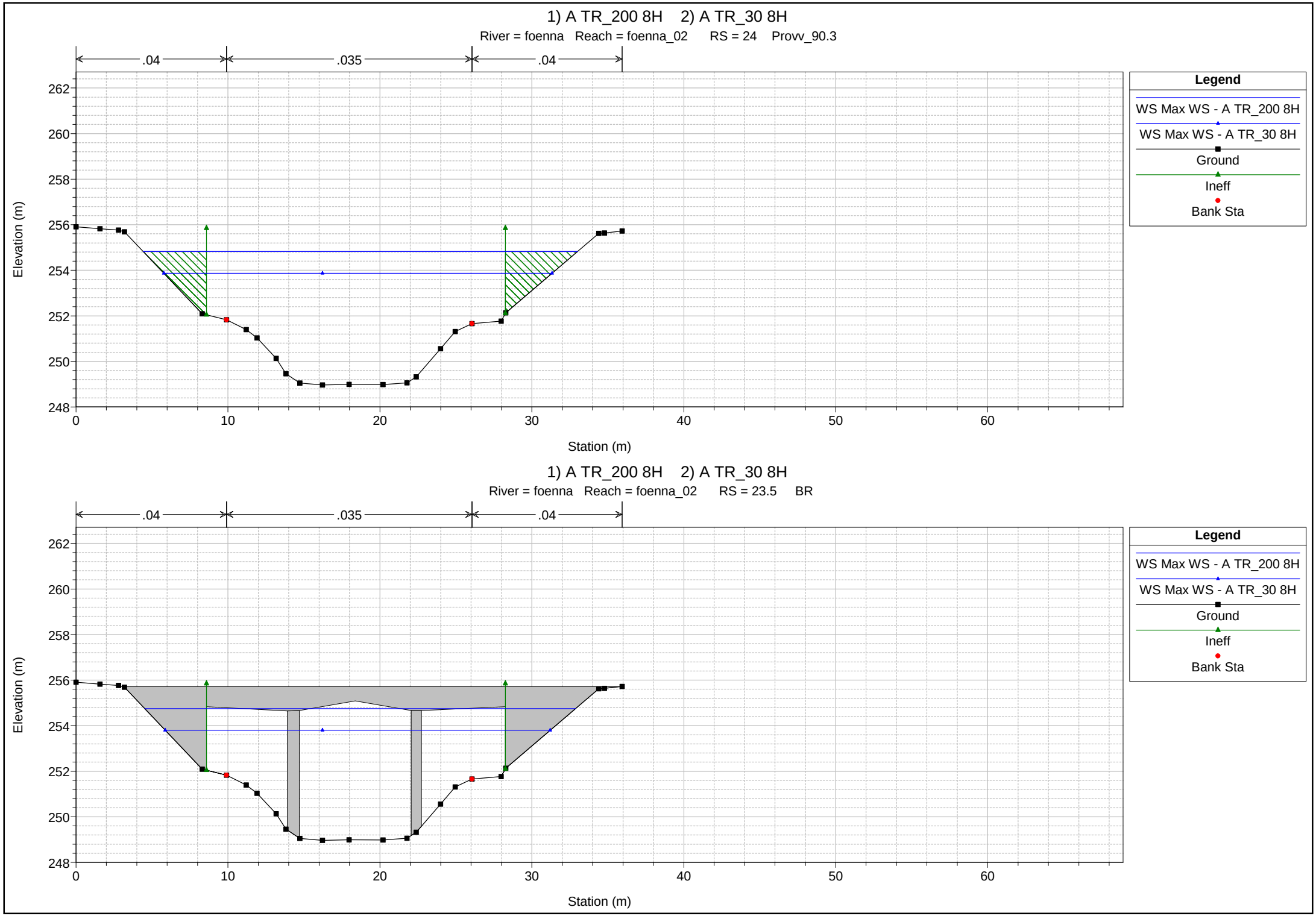




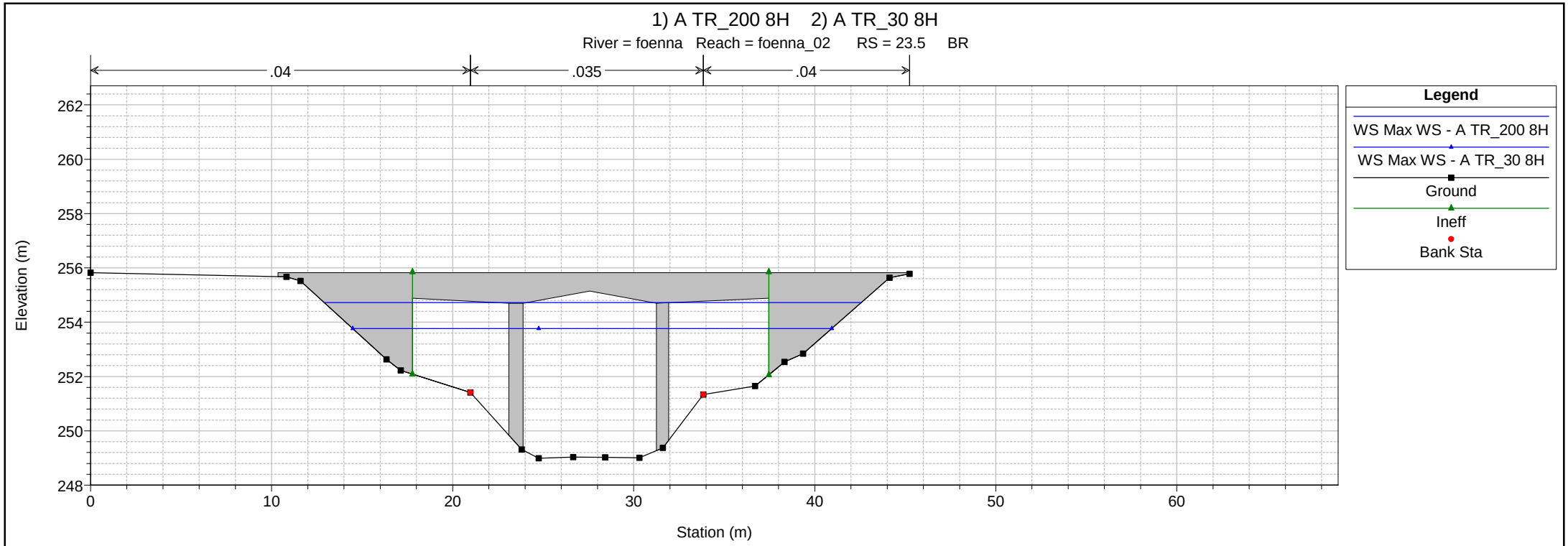
1 cm Horiz. = 3 m 1 cm Vert. = 2 m

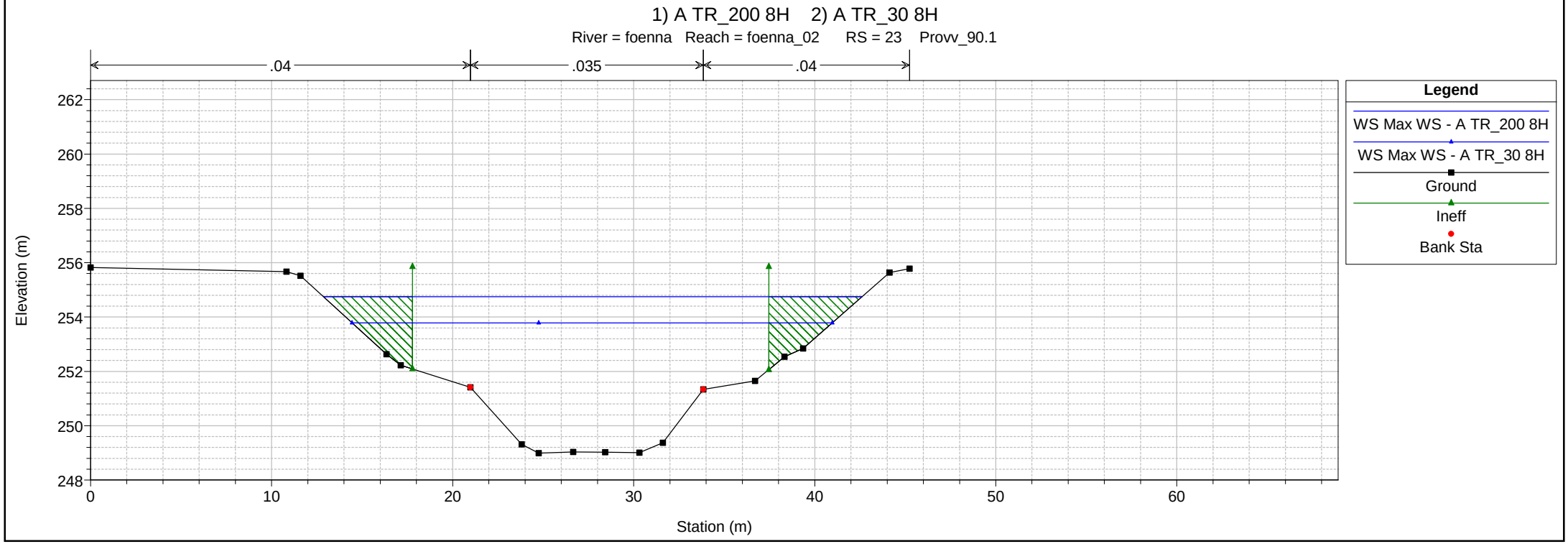


1 cm Horiz. = 3 m 1 cm Vert. = 2 m

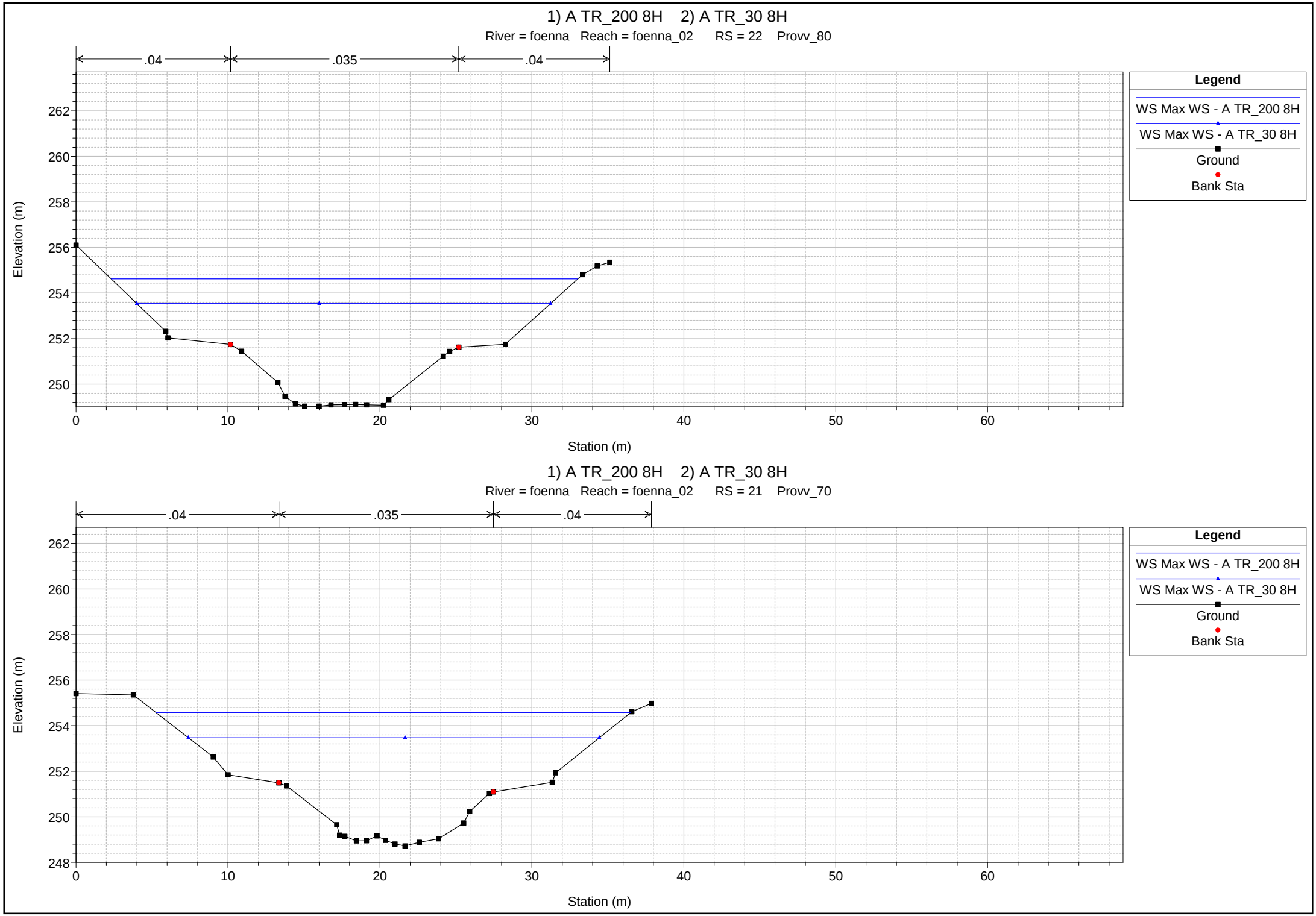


1 cm Horiz. = 3 m 1 cm Vert. = 2 m

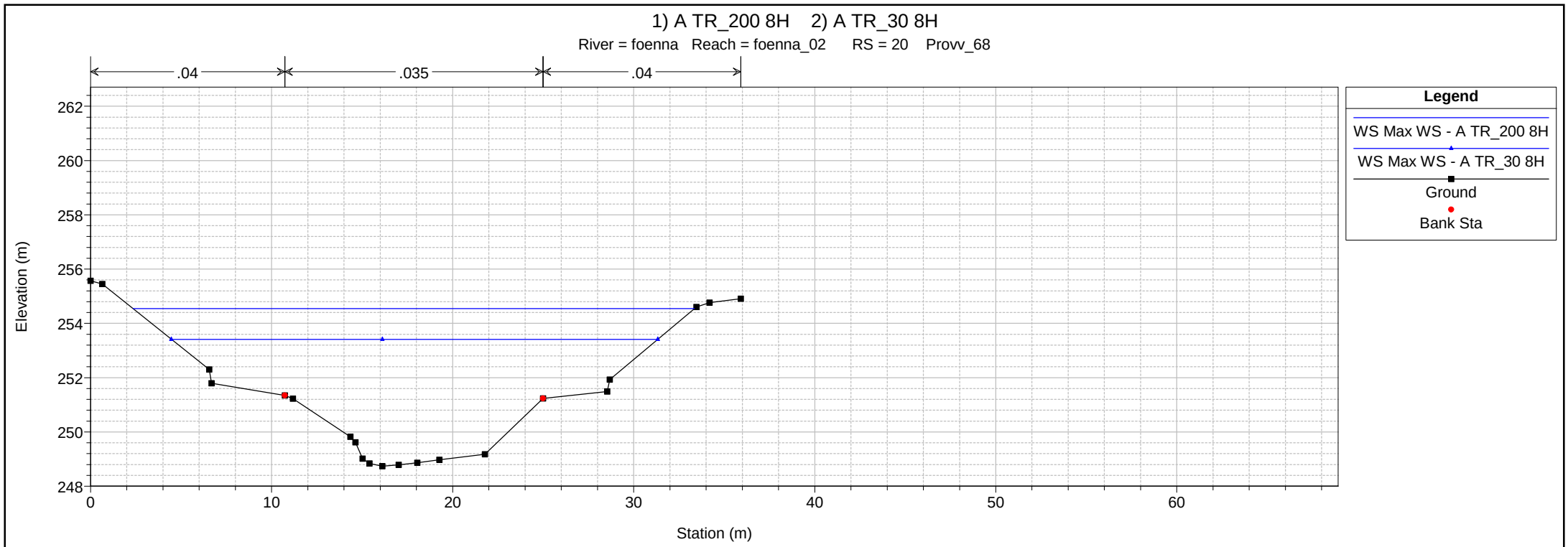


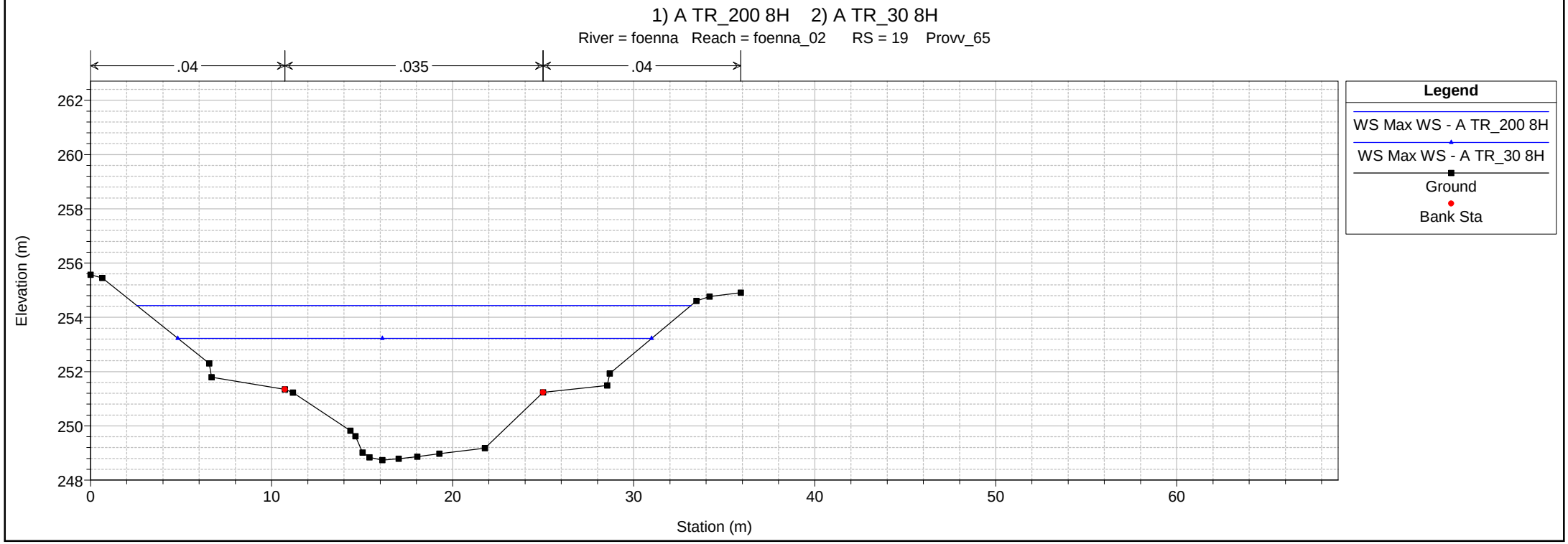


1 cm Horiz. = 3 m 1 cm Vert. = 2 m

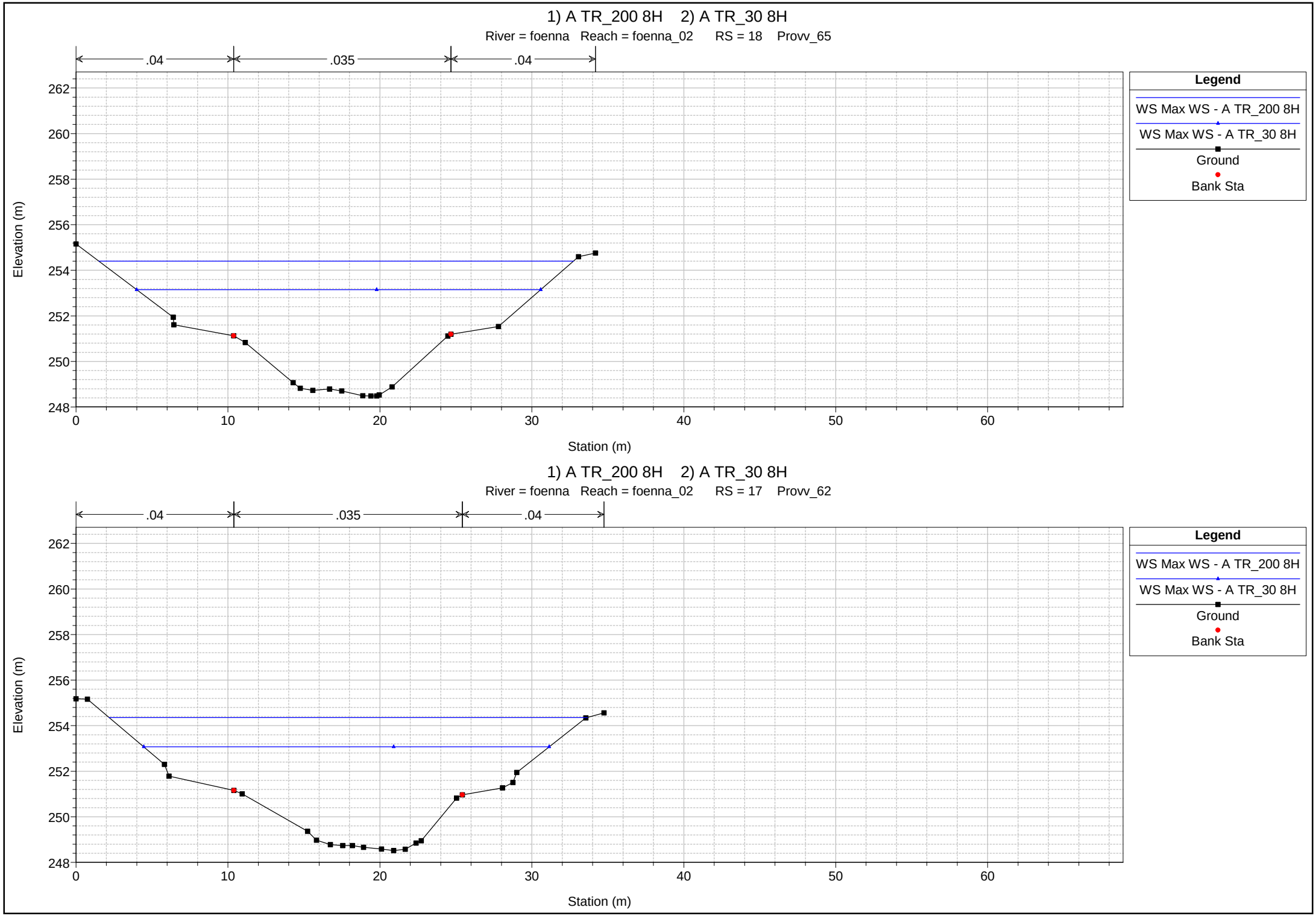


1 cm Horiz. = 3 m 1 cm Vert. = 2 m

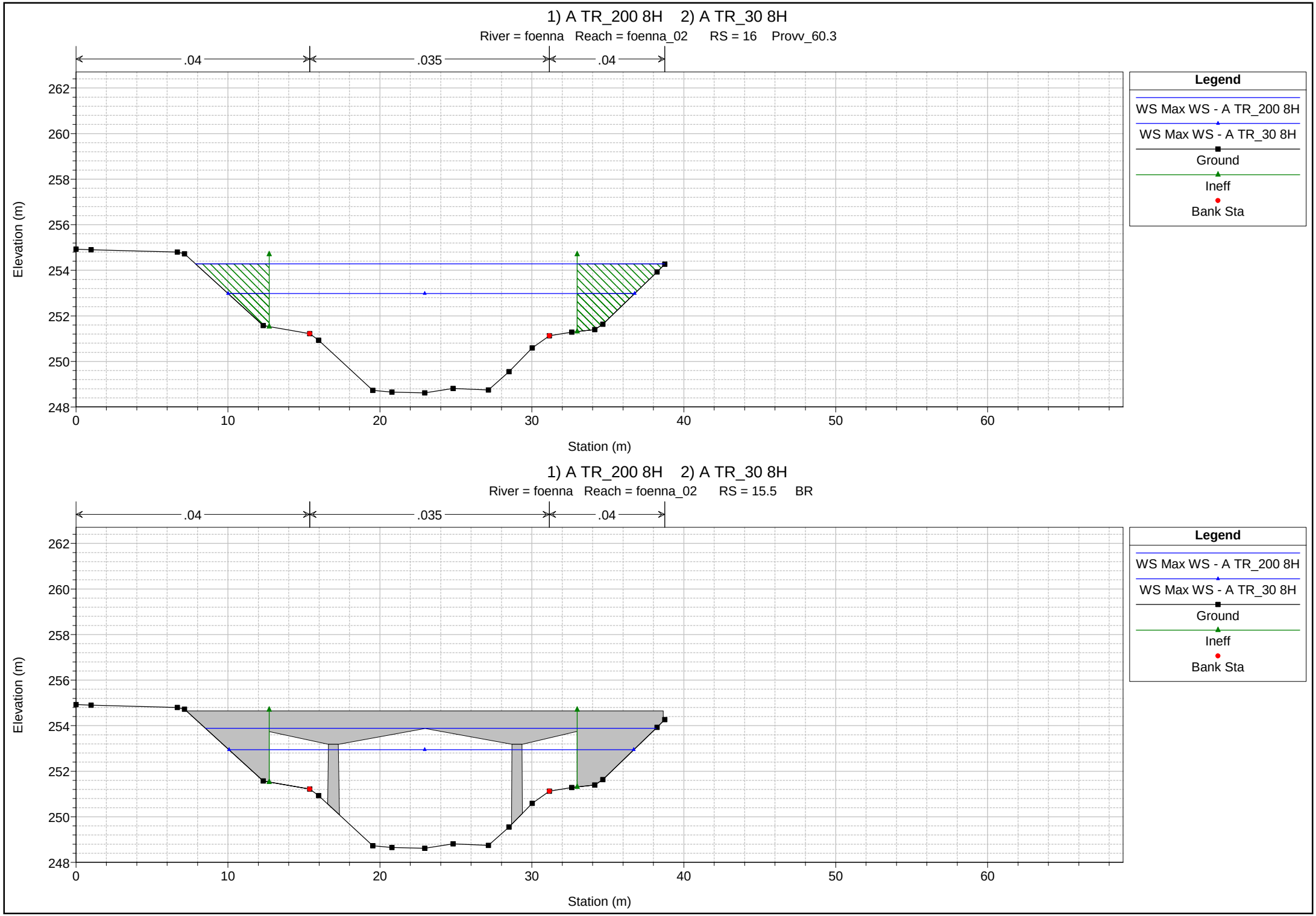




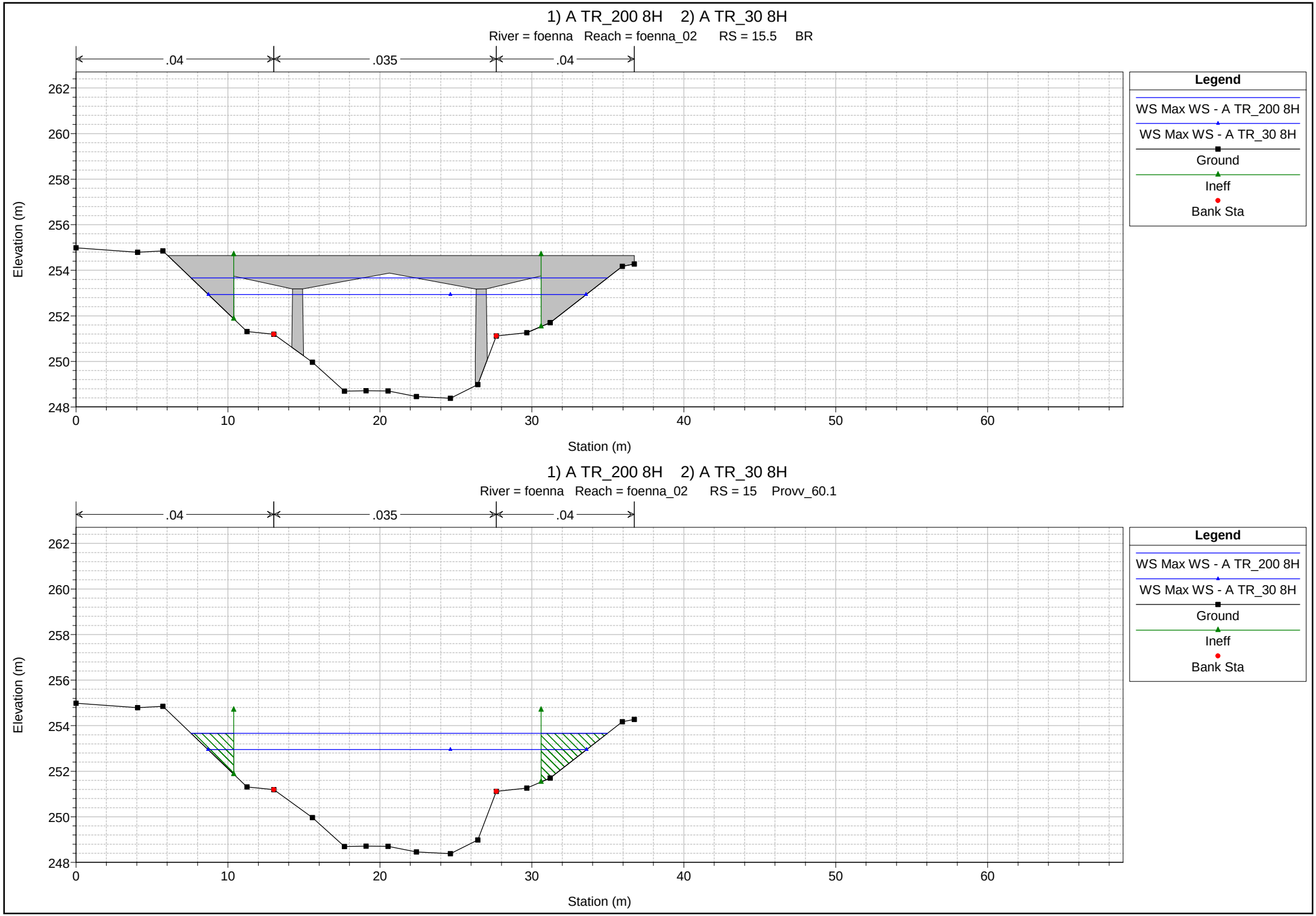
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



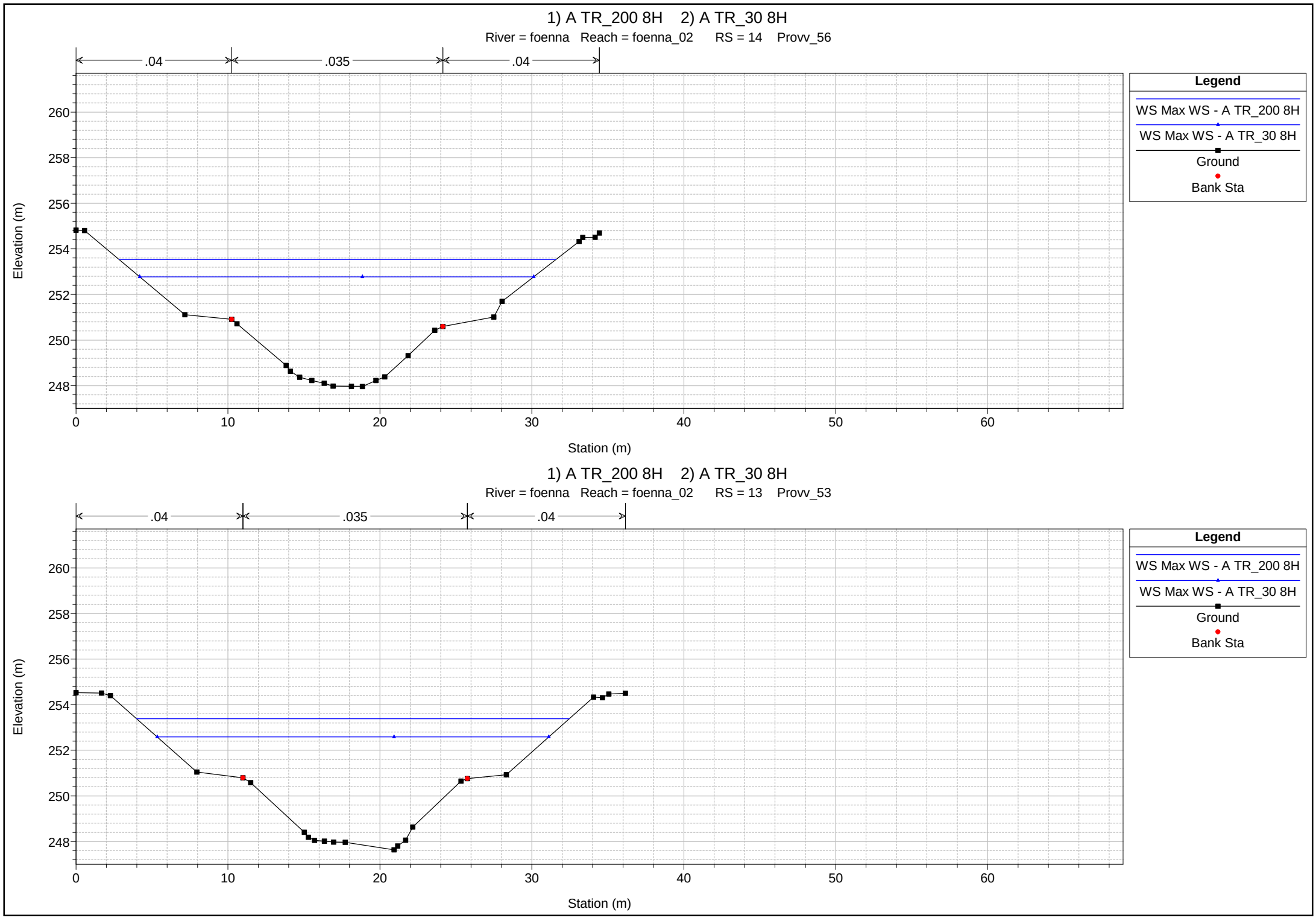
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



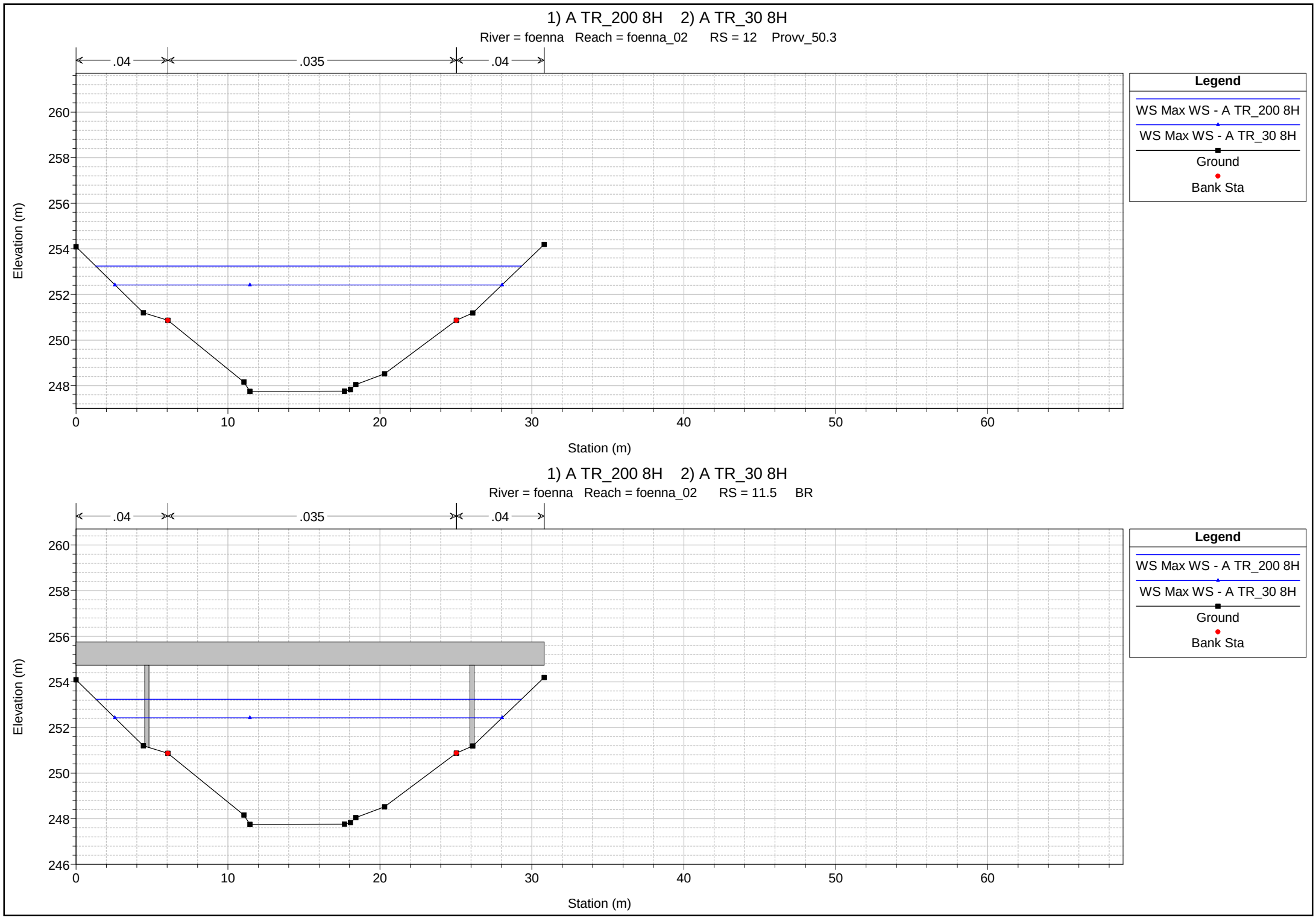
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



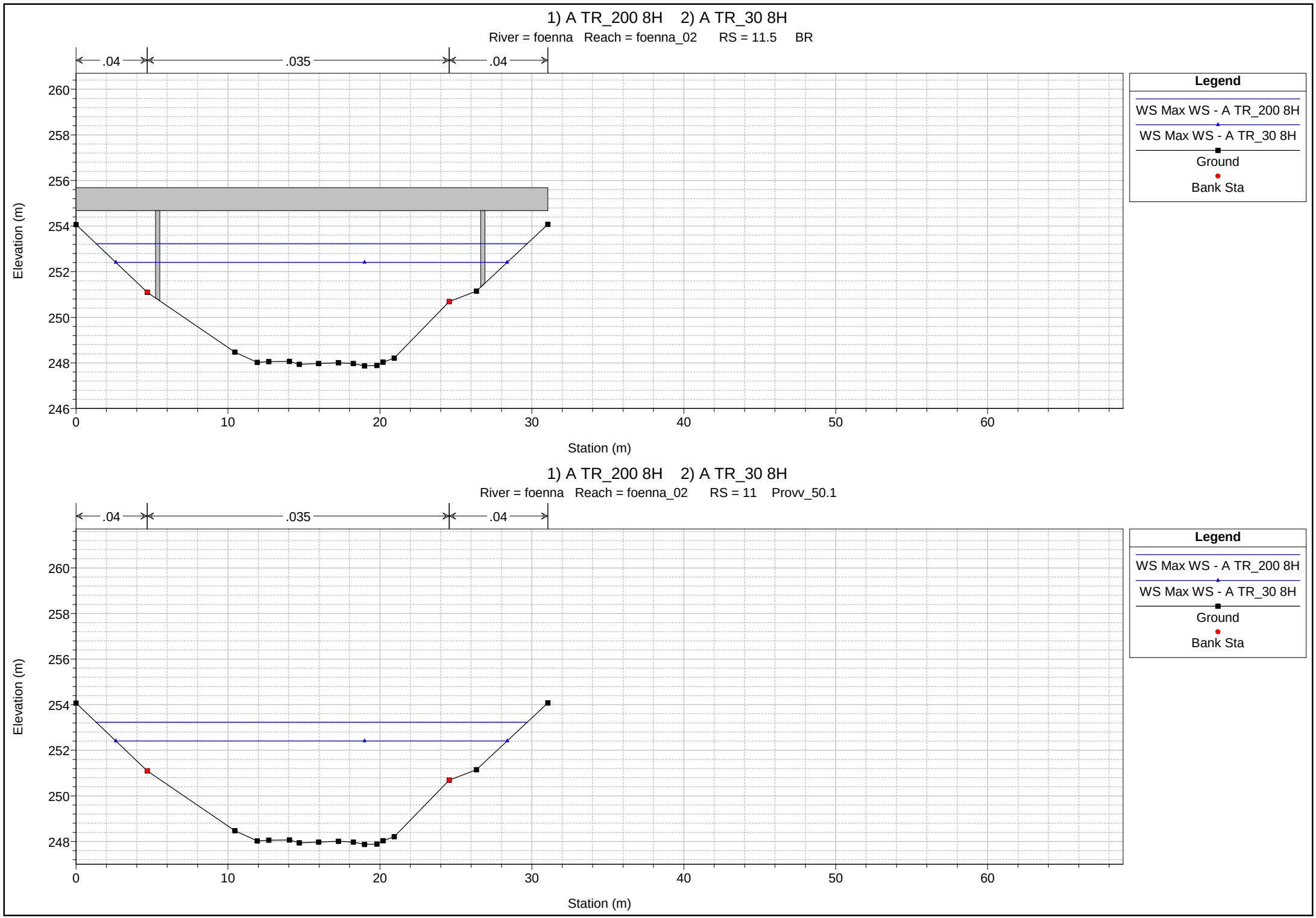
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



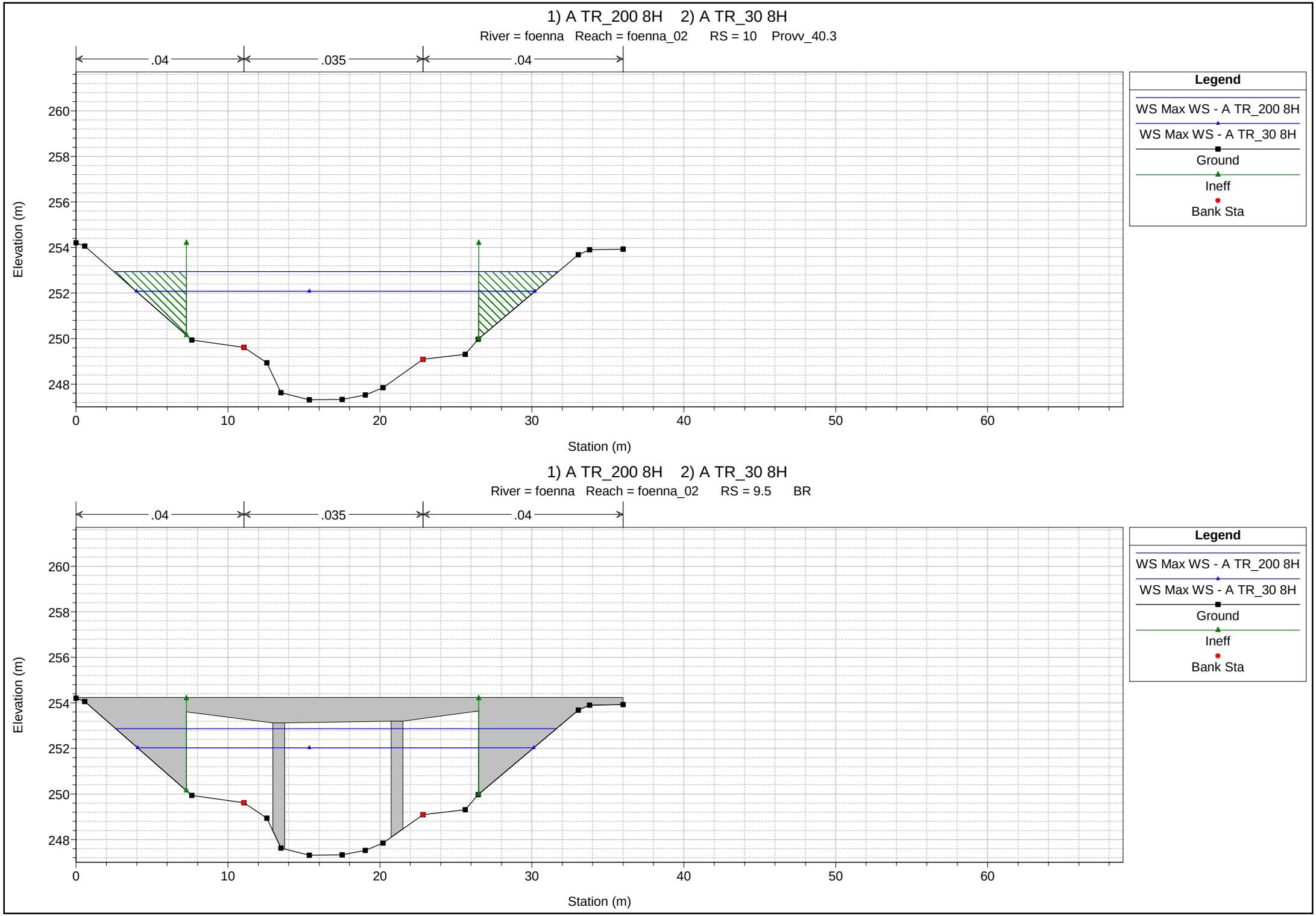
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



1 cm Horiz. = 3 m 1 cm Vert. = 2 m



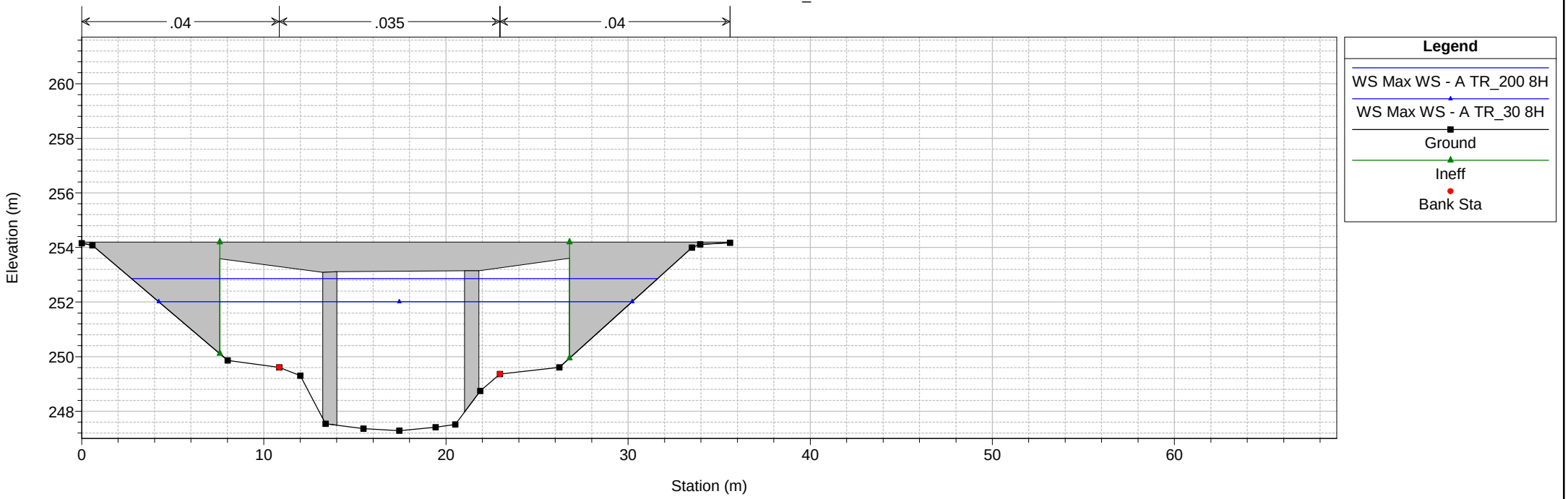
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



1 cm Horiz. = 3 m 1 cm Vert. = 2 m

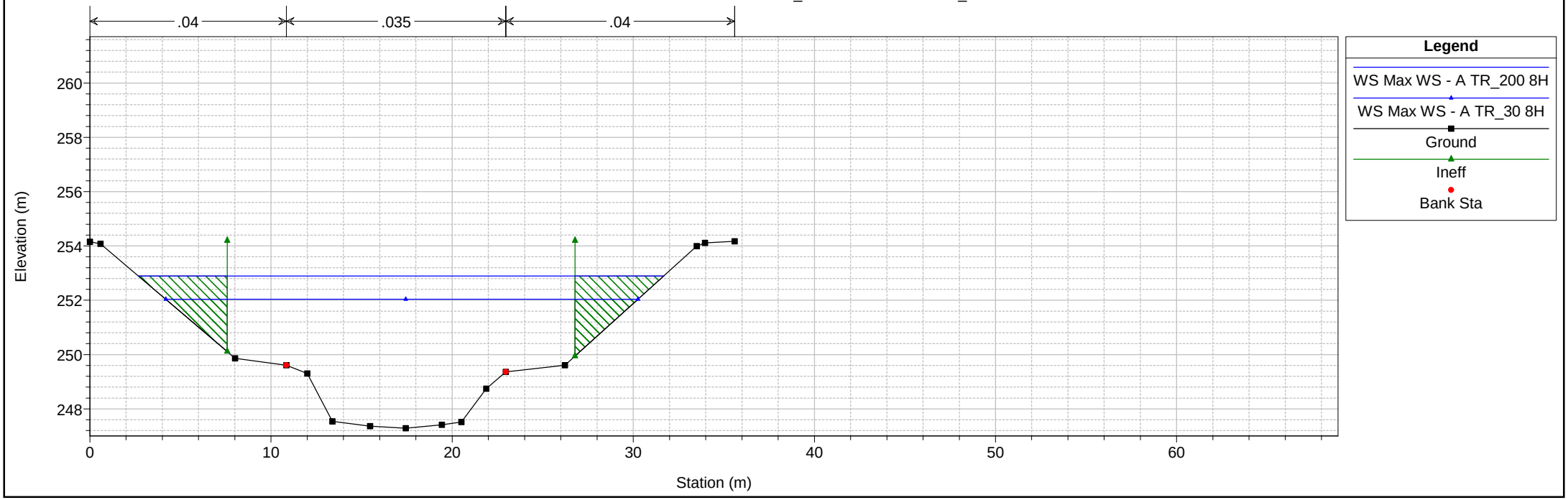
1) A TR_200 8H 2) A TR_30 8H

River = foenna Reach = foenna_02 RS = 9.5 BR

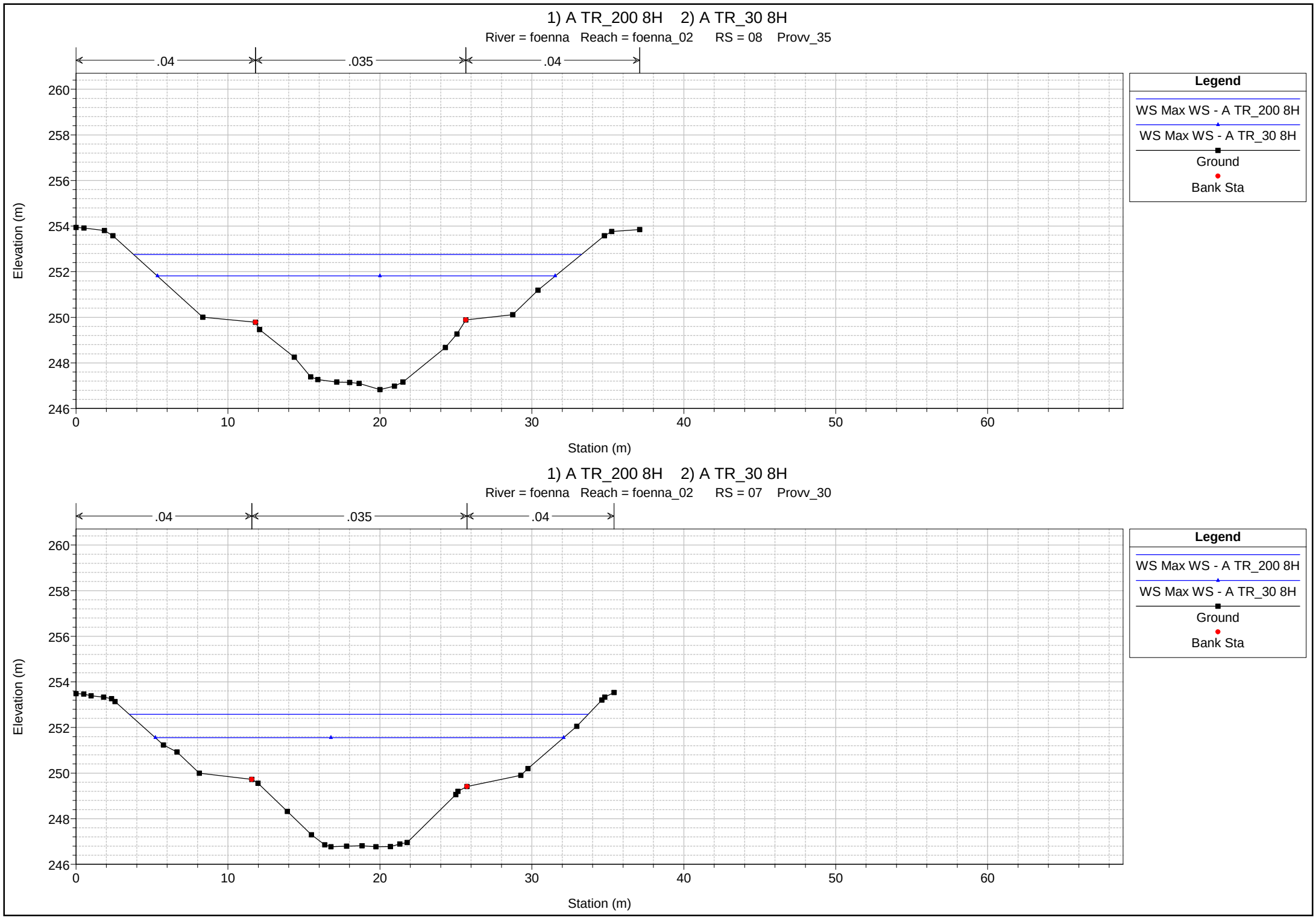


1) A TR_200 8H 2) A TR_30 8H

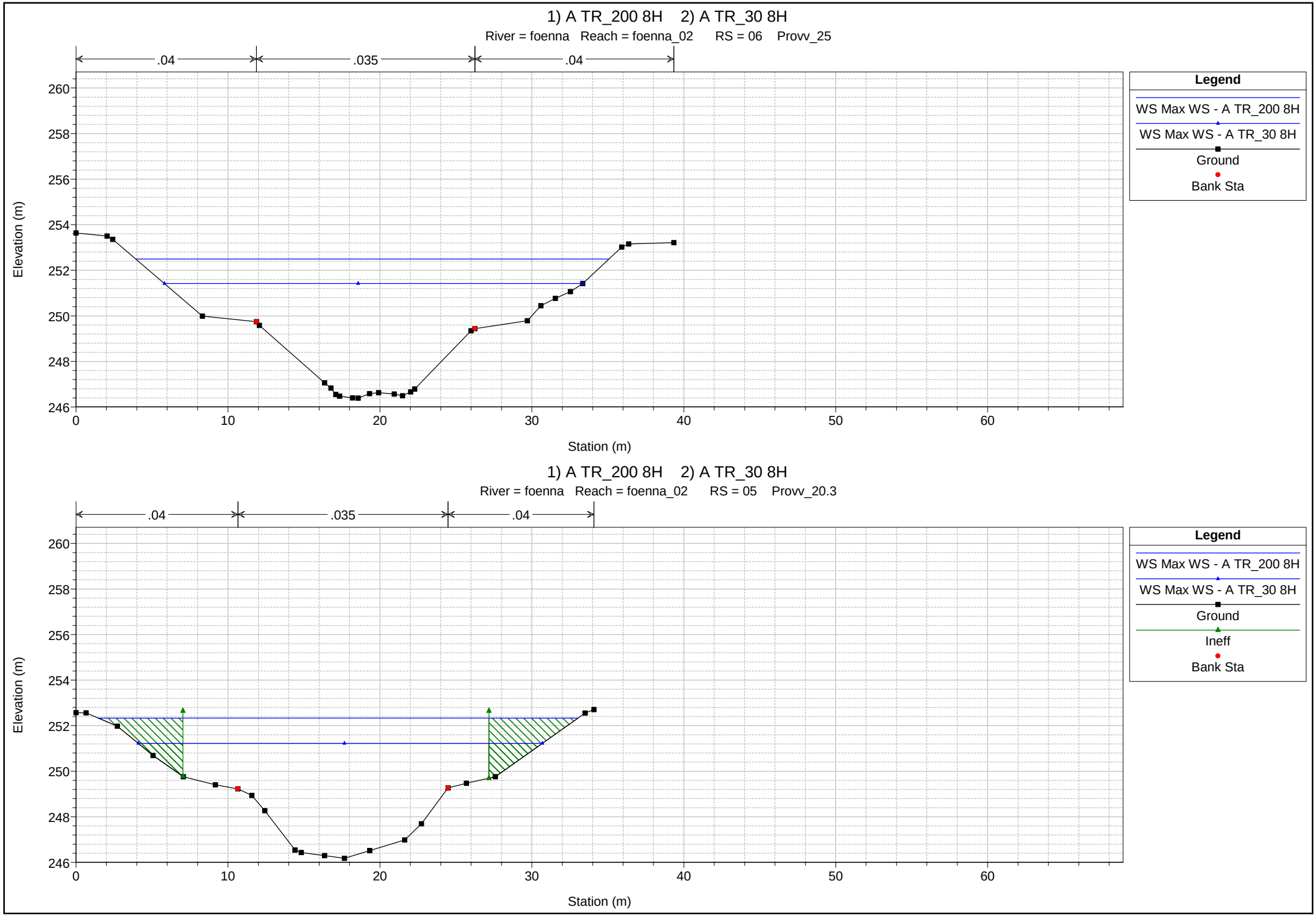
River = foenna Reach = foenna_02 RS = 09 Provv_40.1



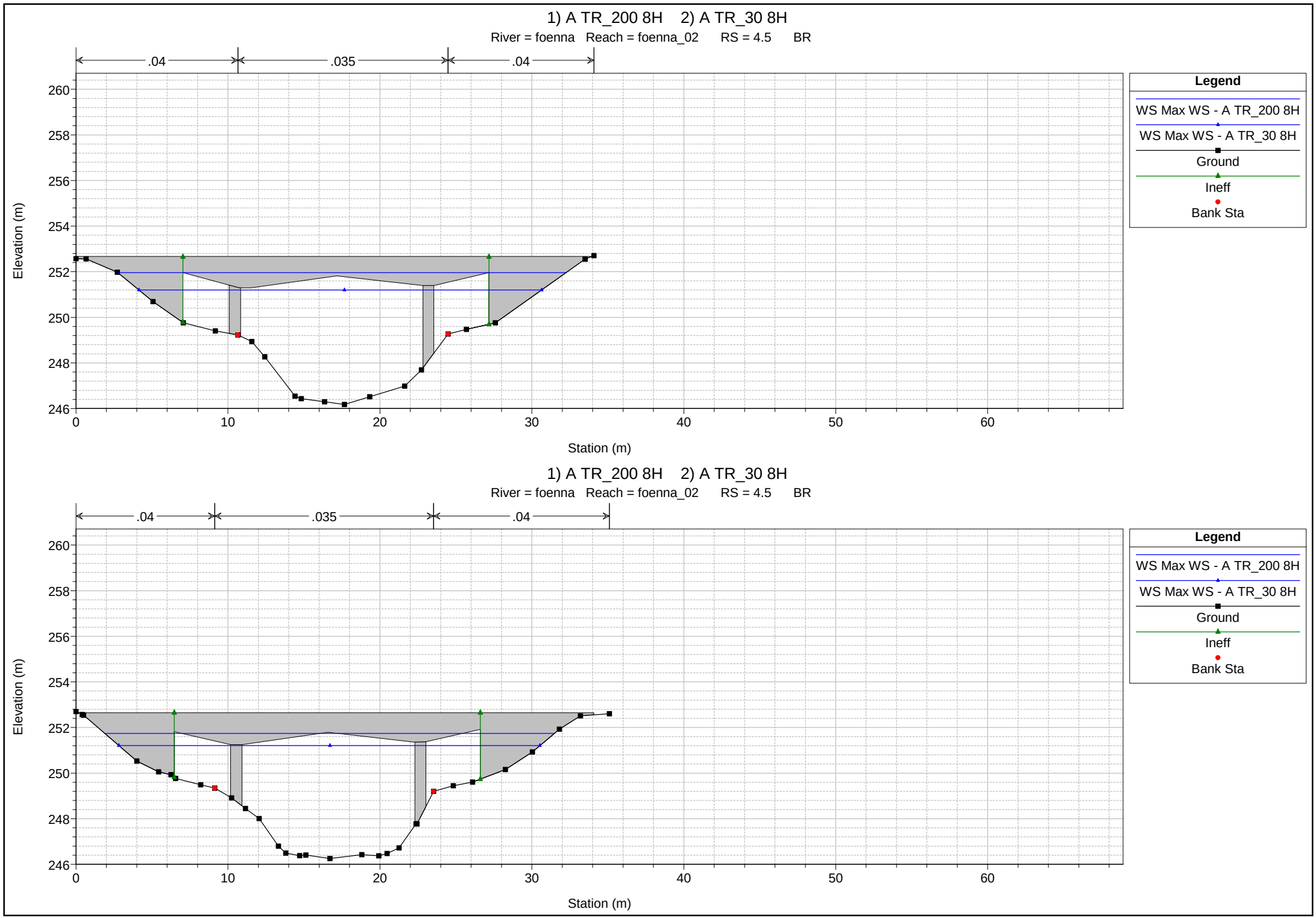
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



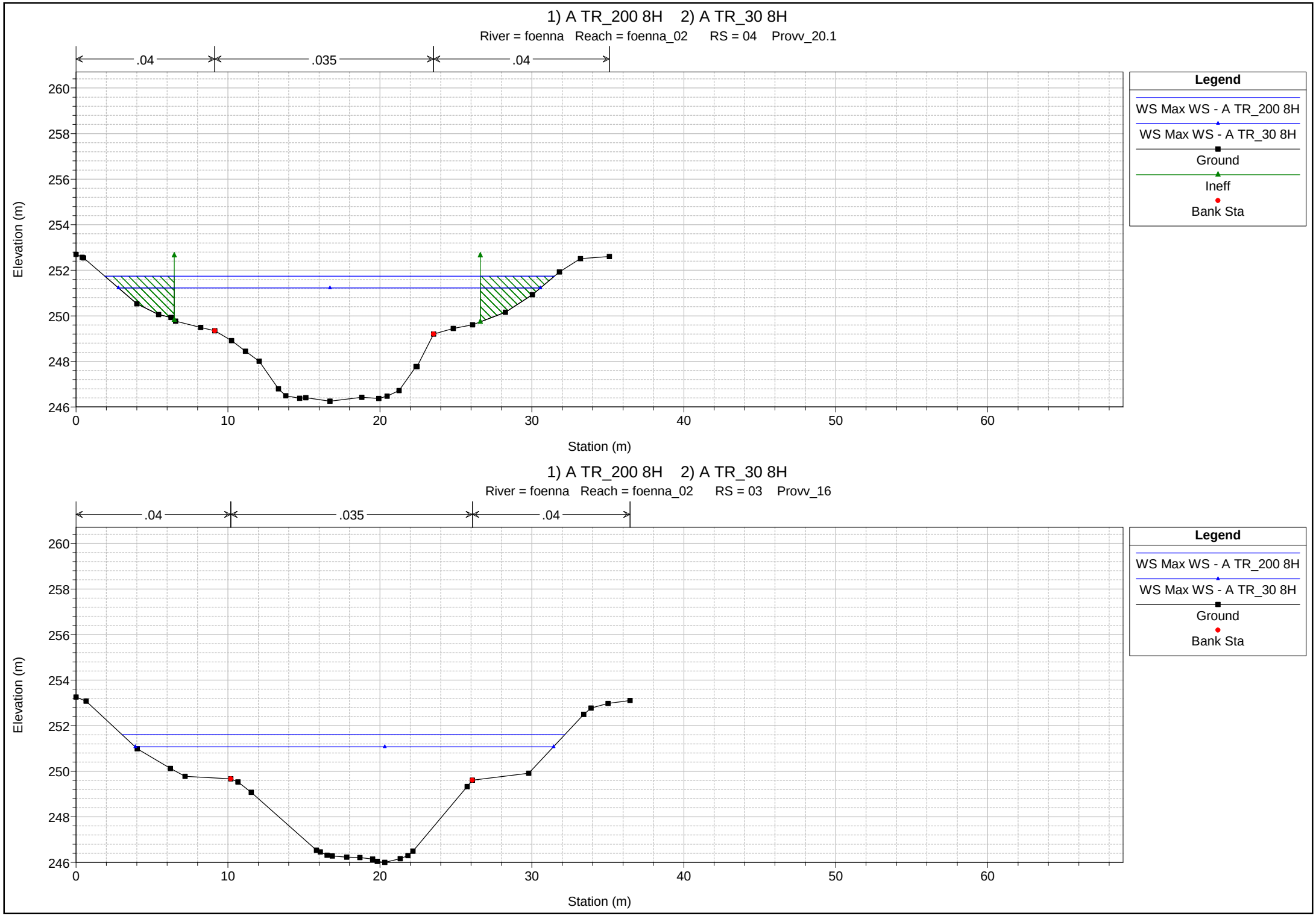
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



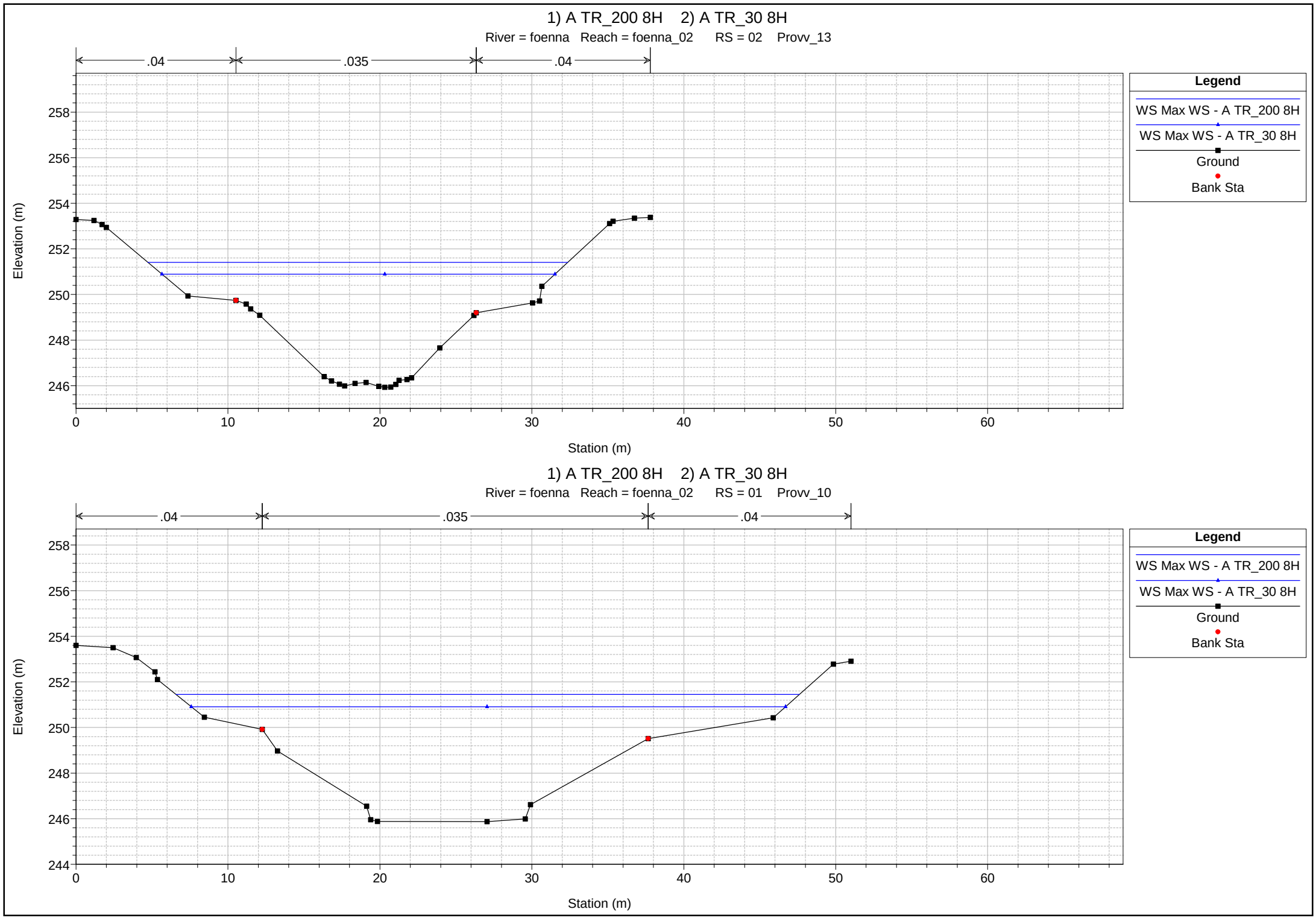
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



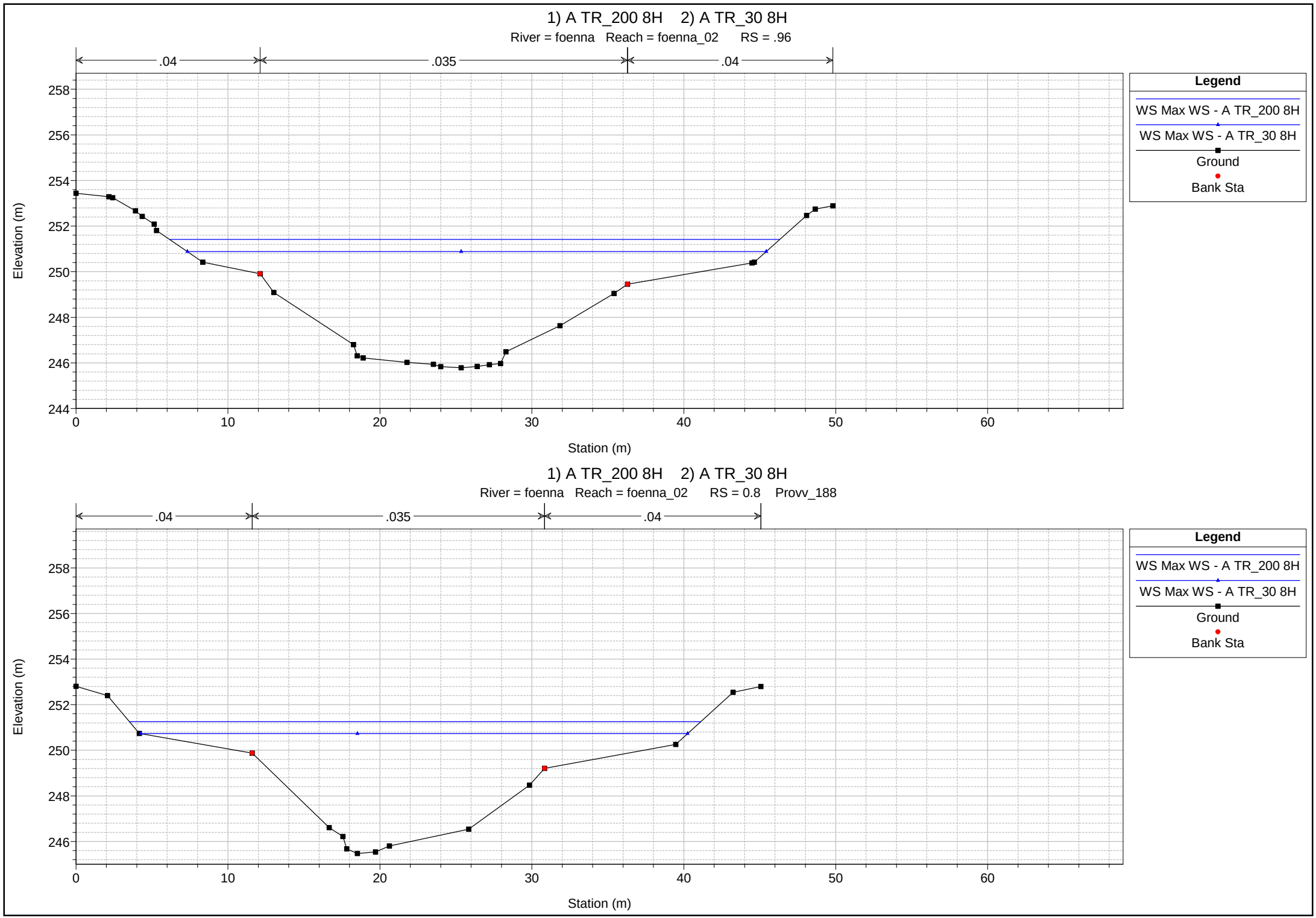
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



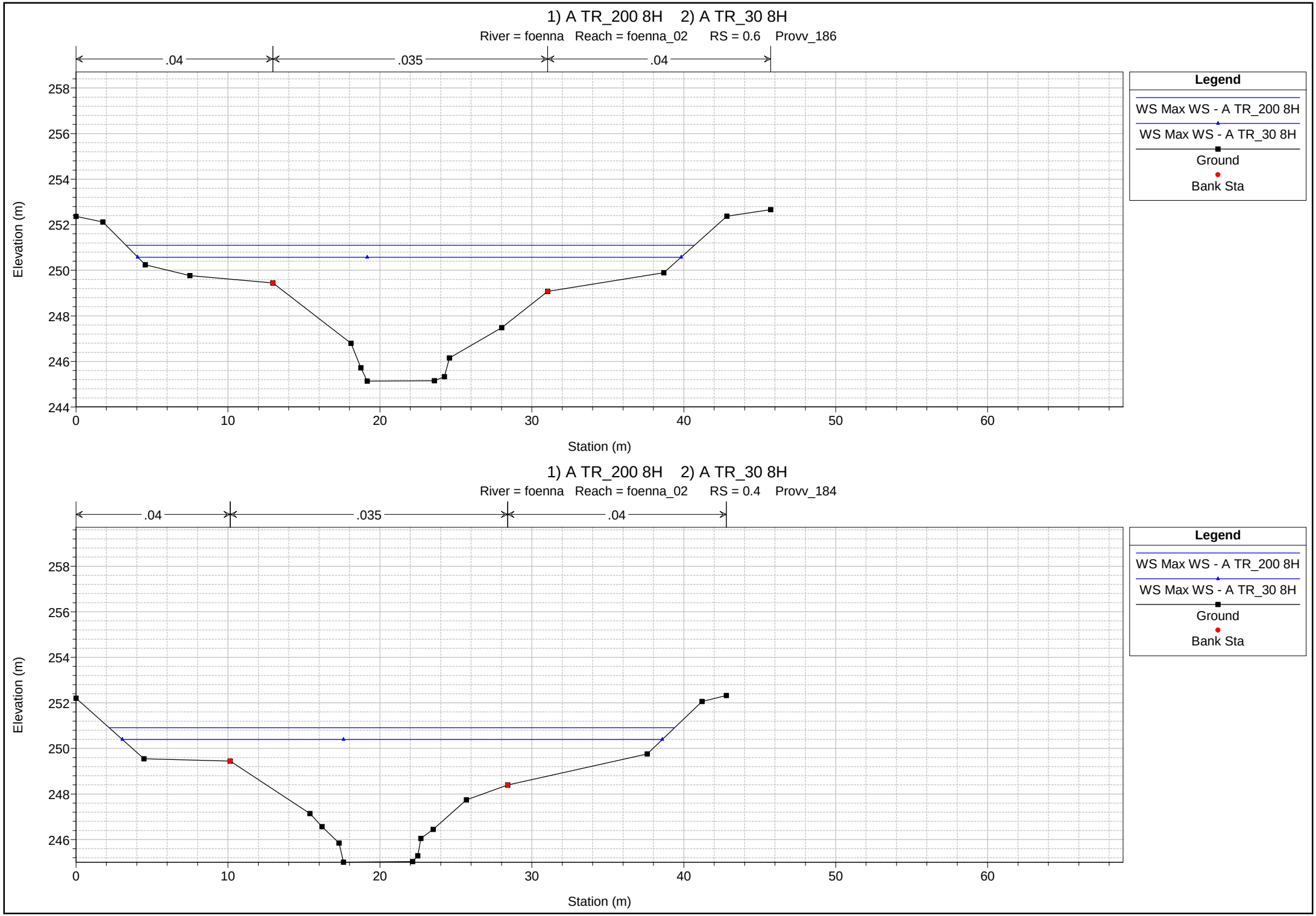
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



1 cm Horiz. = 3 m 1 cm Vert. = 2 m



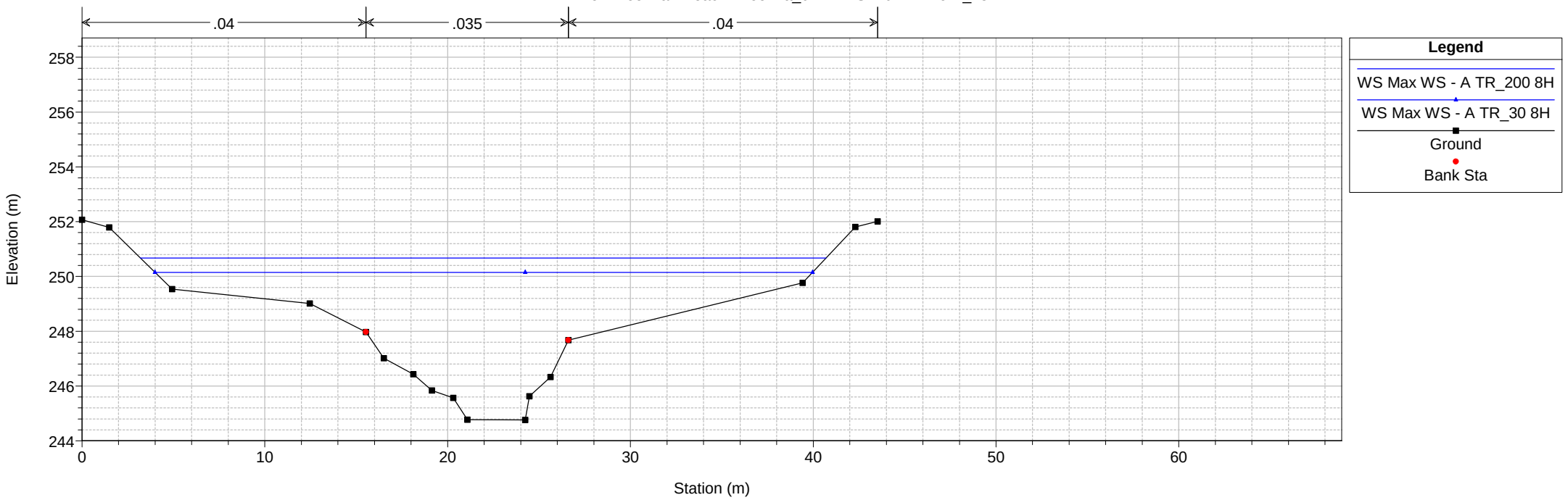
1 cm Horiz. = 3 m 1 cm Vert. = 2 m



1 cm Horiz. = 3 m 1 cm Vert. = 2 m

1) A TR_200 8H 2) A TR_30 8H

River = foenna Reach = foenna_02 RS = 0.2 Provv_182



1 cm Horiz. = 3 m 1 cm Vert. = 2 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)	
unico	49	Max WS	A TR_200 1H	85.47	255.53	259.30	258.21	259.51	0.001547	2.17	45.41	20.99	0.40
unico	49	Max WS	A TR_200 2H	121.82	255.53	259.96	258.62	260.21	0.001443	2.40	59.79	22.56	0.40
unico	49	Max WS	A TR_200 3H	141.20	255.53	260.30	258.82	260.56	0.001374	2.48	67.54	23.34	0.40
unico	49	Max WS	A TR_200 4H	155.50	255.53	260.51	258.95	260.79	0.001357	2.56	72.65	23.82	0.40
unico	49	Max WS	A TR_200 6H	177.40	255.53	260.69	259.15	261.02	0.001501	2.77	76.88	23.91	0.42
unico	49	Max WS	A TR_200 8H	189.60	255.53	260.73	259.25	261.09	0.001661	2.92	77.72	23.91	0.45
unico	49	Max WS	A TR_200 12H	189.10	255.53	260.73	259.25	261.09	0.001654	2.92	77.69	23.91	0.45
unico	49	Max WS	A TR_30 1H	37.53	255.53	258.20	257.26	258.34	0.001764	1.70	24.01	16.75	0.40
unico	49	Max WS	A TR_30 2H	52.13	255.53	258.59	257.57	258.75	0.001672	1.87	31.06	19.29	0.40
unico	49	Max WS	A TR_30 3H	59.38	255.53	258.77	257.73	258.94	0.001613	1.94	34.54	19.72	0.40
unico	49	Max WS	A TR_30 4H	62.91	255.53	258.85	257.81	259.03	0.001583	1.96	36.24	19.92	0.40
unico	49	Max WS	A TR_30 6H	68.04	255.53	258.97	257.90	259.15	0.001556	2.01	38.56	20.20	0.40
unico	49	Max WS	A TR_30 8H	73.10	255.53	259.07	258.00	259.26	0.001546	2.05	40.66	20.44	0.40
unico	49	Max WS	A TR_30 12H	76.50	255.53	259.14	258.09	259.33	0.001546	2.08	42.00	20.60	0.40
unico	48.99	Max WS	A TR_200 1H	85.47	255.53	259.30	258.21	259.51	0.001547	2.17	45.41	20.99	0.40
unico	48.99	Max WS	A TR_200 2H	121.80	255.53	259.96	258.62	260.21	0.001443	2.40	59.79	22.56	0.40
unico	48.99	Max WS	A TR_200 3H	141.22	255.53	260.30	258.82	260.56	0.001375	2.48	67.54	23.34	0.40
unico	48.99	Max WS	A TR_200 4H	155.50	255.53	260.51	258.95	260.79	0.001357	2.56	72.65	23.82	0.40
unico	48.99	Max WS	A TR_200 6H	177.40	255.53	260.69	259.15	261.02	0.001501	2.77	76.88	23.91	0.42
unico	48.99	Max WS	A TR_200 8H	189.60	255.53	260.73	259.25	261.09	0.001662	2.93	77.72	23.91	0.45
unico	48.99	Max WS	A TR_200 12H	189.10	255.53	260.73	259.25	261.09	0.001654	2.92	77.69	23.91	0.45
unico	48.99	Max WS	A TR_30 1H	37.53	255.53	258.20	257.26	258.34	0.001765	1.70	24.01	16.75	0.40
unico	48.99	Max WS	A TR_30 2H	52.14	255.53	258.59	257.58	258.75	0.001674	1.87	31.05	19.29	0.40
unico	48.99	Max WS	A TR_30 3H	59.39	255.53	258.77	257.74	258.94	0.001614	1.94	34.54	19.72	0.40
unico	48.99	Max WS	A TR_30 4H	62.91	255.53	258.85	257.81	259.03	0.001583	1.96	36.24	19.92	0.40
unico	48.99	Max WS	A TR_30 6H	68.04	255.53	258.97	257.90	259.15	0.001556	2.01	38.55	20.20	0.40
unico	48.99	Max WS	A TR_30 8H	73.10	255.53	259.07	258.00	259.26	0.001546	2.05	40.66	20.44	0.40
unico	48.99	Max WS	A TR_30 12H	76.50	255.53	259.14	258.09	259.33	0.001546	2.08	42.00	20.60	0.40
unico	48.95			Lat Struct									
unico	48.9			Lat Struct									
unico	48	Max WS	A TR_200 1H	85.29	255.40	259.10	257.88	259.30	0.001362	2.08	47.46	21.48	0.38
unico	48	Max WS	A TR_200 2H	121.69	255.40	259.78	258.34	260.01	0.001278	2.30	62.71	23.34	0.38
unico	48	Max WS	A TR_200 3H	141.12	255.40	260.13	258.53	260.37	0.001218	2.38	71.02	24.30	0.37
unico	48	Max WS	A TR_200 4H	155.41	255.40	260.35	258.67	260.61	0.001205	2.45	76.42	24.90	0.38
unico	48	Max WS	A TR_200 6H	172.96	255.40	260.55	258.83	260.83	0.001251	2.57	81.46	25.45	0.39
unico	48	Max WS	A TR_200 8H	180.10	255.40	260.61	258.89	260.91	0.001293	2.64	83.06	25.88	0.39
unico	48	Max WS	A TR_200 12H	179.83	255.40	260.61	258.89	260.90	0.001291	2.64	83.00	25.84	0.39
unico	48	Max WS	A TR_30 1H	37.26	255.40	257.97	256.94	258.10	0.001503	1.61	24.91	18.38	0.37
unico	48	Max WS	A TR_30 2H	51.86	255.40	258.37	257.27	258.52	0.001426	1.78	32.53	19.48	0.37
unico	48	Max WS	A TR_30 3H	59.27	255.40	258.56	257.42	258.72	0.001389	1.84	36.22	19.99	0.37
unico	48	Max WS	A TR_30 4H	62.88	255.40	258.65	257.49	258.81	0.001367	1.87	38.03	20.24	0.37
unico	48	Max WS	A TR_30 6H	67.99	255.40	258.77	257.59	258.94	0.001346	1.91	40.47	20.57	0.37
unico	48	Max WS	A TR_30 8H	73.07	255.40	258.87	257.69	259.05	0.001346	1.96	42.63	20.85	0.37
unico	48	Max WS	A TR_30 12H	76.46	255.40	258.94	257.75	259.12	0.001351	1.99	43.99	21.03	0.37
unico	47	Max WS	A TR_200 1H	84.68	254.68	258.89	257.38	259.06	0.001086	1.95	50.85	21.89	0.34
unico	47	Max WS	A TR_200 2H	120.90	254.68	259.59	257.93	259.79	0.001056	2.17	66.81	23.99	0.34
unico	47	Max WS	A TR_200 3H	140.85	254.68	259.94	258.15	260.16	0.001025	2.26	75.59	25.07	0.34
unico	47	Max WS	A TR_200 4H	155.30	254.68	260.16	258.29	260.39	0.001028	2.34	81.17	25.76	0.34
unico	47	Max WS	A TR_200 6H	172.94	254.68	260.35	258.46	260.61	0.001093	2.48	86.07	26.62	0.36
unico	47	Max WS	A TR_200 8H	179.65	254.68	260.41	258.52	260.68	0.001121	2.53	87.68	26.73	0.36
unico	47	Max WS	A TR_200 12H	179.44	254.68	260.41	258.52	260.68	0.001121	2.53	87.61	26.73	0.36
unico	47	Max WS	A TR_30 1H	37.12	254.68	257.75	256.38	257.86	0.001023	1.44	27.92	18.44	0.31
unico	47	Max WS	A TR_30 2H	51.62	254.68	258.16	256.73	258.29	0.001039	1.63	35.75	19.70	0.32
unico	47	Max WS	A TR_30 3H	59.13	254.68	258.35	256.89	258.49	0.001043	1.70	39.54	20.27	0.32
unico	47	Max WS	A TR_30 4H	62.76	254.68	258.45	256.96	258.59	0.001038	1.74	41.42	20.55	0.32
unico	47	Max WS	A TR_30 6H	67.94	254.68	258.57	257.06	258.71	0.001039	1.78	43.92	20.92	0.32
unico	47	Max WS	A TR_30 8H	73.00	254.68	258.67	257.15	258.82	0.001053	1.84	46.09	21.23	0.33
unico	47	Max WS	A TR_30 12H	76.40	254.68	258.73	257.22	258.89	0.001067	1.87	47.43	21.42	0.33
unico	46.95			Lat Struct									
unico	46.9			Lat Struct									
unico	46	Max WS	A TR_200 1H	83.93	254.64	258.66	257.28	258.85	0.001286	2.07	47.07	21.10	0.37
unico	46	Max WS	A TR_200 2H	119.79	254.64	259.36	257.85	259.59	0.001207	2.28	62.59	23.09	0.37
unico	46	Max WS	A TR_200 3H	140.34	254.64	259.72	258.07	259.97	0.001167	2.38	71.18	24.11	0.37
unico	46	Max WS	A TR_200 4H	155.14	254.64	259.94	258.22	260.20	0.001173	2.47	76.48	24.73	0.37
unico	46	Max WS	A TR_200 6H	172.92	254.64	260.11	258.38	260.40	0.001264	2.62	80.66	25.32	0.39
unico	46	Max WS	A TR_200 8H	179.39	254.64	260.16	258.45	260.46	0.001305	2.68	82.00	25.66	0.39
unico	46	Max WS	A TR_200 12H	179.21	254.64	260.16	258.45	260.46	0.001306	2.68	81.92	25.64	0.39
unico	46	Max WS	A TR_30 1H	36.95	254.64	257.53	256.35	257.65	0.001301	1.57	25.07	17.92	0.34
unico	46	Max WS	A TR_30 2H	51.46	254.64	257.93	256.66	258.08	0.001297	1.76	32.54	19.06	0.35
unico	46	Max WS	A TR_30 3H	58.85	254.64	258.12	256.81	258.28	0.001278	1.83	36.22	19.60	0.35
unico	46	Max WS	A TR_30 4H	62.53	254.64	258.22	256.88	258.38	0.001264	1.86	38.07	19.86	0.35
unico	46	Max WS	A TR_30 6H	67.88	254.64	258.34	256.98	258.51	0.001264	1.92	40.47	20.20	0.36
unico	46	Max WS	A TR_30 8H	72.92	254.64	258.44	257.07	258.62	0.001280	1.97	42.48	20.48	0.36
unico	46	Max WS	A TR_30 12H	76.36	254.64	258.50	257.14	258.68	0.001302	2.01	43.69	20.64	0.36
unico	45	Max WS	A TR_200 1H	83.27	254.43	258.40	257.14	258.60	0.001340	2.10	46.21	21.00	0.37
unico	45	Max WS	A TR_200 2H	119.06	254.43	259.12	257.63	259.35	0.001221	2.30	62.20	23.15	0.37
unico	45	Max WS	A TR_200 3H	139.65	254.43	259.50	257.85	259.74	0.001169	2.39	71.07	24.27	0.37
unico	45	Max WS	A TR_200 4H	155.04	254.43	259.71	258.01	259.97	0.001196	2.49	76.29	25.25	0.37

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)	
unico	45	Max WS	A TR_200 6H	172.92	254.43	259.85	258.17	260.15	0.001325	2.68	79.85	26.18	0.40
unico	45	Max WS	A TR_200 8H	179.38	254.43	259.89	258.24	260.21	0.001386	2.75	80.92	26.78	0.41
unico	45	Max WS	A TR_200 12H	179.21	254.43	259.88	258.23	260.20	0.001387	2.75	80.84	26.74	0.41
unico	45	Max WS	A TR_30 1H	36.63	254.43	257.26	256.15	257.39	0.001431	1.62	24.20	17.47	0.36
unico	45	Max WS	A TR_30 2H	51.03	254.43	257.66	256.48	257.82	0.001394	1.80	31.61	18.81	0.37
unico	45	Max WS	A TR_30 3H	58.49	254.43	257.86	256.64	258.03	0.001357	1.87	35.38	19.40	0.37
unico	45	Max WS	A TR_30 4H	62.26	254.43	257.96	256.71	258.13	0.001337	1.90	37.28	19.69	0.36
unico	45	Max WS	A TR_30 6H	67.76	254.43	258.08	256.82	258.26	0.001343	1.96	39.63	20.04	0.37
unico	45	Max WS	A TR_30 8H	72.82	254.43	258.17	256.91	258.36	0.001367	2.02	41.54	20.32	0.37
unico	45	Max WS	A TR_30 12H	76.28	254.43	258.22	256.98	258.42	0.001402	2.07	42.59	20.48	0.38
unico	44.95			Lat Struct									
unico	44.9			Lat Struct									
unico	44	Max WS	A TR_200 1H	82.40	254.21	258.18	256.82	258.36	0.001251	2.05	47.41	21.35	0.36
unico	44	Max WS	A TR_200 2H	118.25	254.21	258.93	257.37	259.14	0.001128	2.23	64.33	23.61	0.35
unico	44	Max WS	A TR_200 3H	139.29	254.21	259.31	257.59	259.54	0.001087	2.32	73.60	24.77	0.35
unico	44	Max WS	A TR_200 4H	154.90	254.21	259.52	257.74	259.76	0.001117	2.43	78.79	25.39	0.36
unico	44	Max WS	A TR_200 6H	172.92	254.21	259.63	257.92	259.91	0.001265	2.63	81.64	25.73	0.38
unico	44	Max WS	A TR_200 8H	179.38	254.21	259.66	257.98	259.96	0.001328	2.70	82.39	25.84	0.39
unico	44	Max WS	A TR_200 12H	179.21	254.21	259.66	257.96	259.96	0.001329	2.70	82.31	25.81	0.39
unico	44	Max WS	A TR_30 1H	36.24	254.21	257.01	255.84	257.14	0.001345	1.59	24.62	17.69	0.35
unico	44	Max WS	A TR_30 2H	50.54	254.21	257.43	256.19	257.58	0.001307	1.77	32.32	19.10	0.35
unico	44	Max WS	A TR_30 3H	58.09	254.21	257.63	256.34	257.79	0.001271	1.84	36.31	19.72	0.35
unico	44	Max WS	A TR_30 4H	61.98	254.21	257.73	256.43	257.90	0.001255	1.87	38.30	20.02	0.35
unico	44	Max WS	A TR_30 6H	67.60	254.21	257.85	256.54	258.02	0.001273	1.93	40.66	20.37	0.36
unico	44	Max WS	A TR_30 8H	72.73	254.21	257.94	256.64	258.12	0.001312	2.00	42.46	20.64	0.36
unico	44	Max WS	A TR_30 12H	76.22	254.21	257.98	256.71	258.17	0.001363	2.06	43.35	20.77	0.37
unico	43.95			Lat Struct									
unico	43.9			Lat Struct									
unico	43	Max WS	A TR_200 1H	82.09	254.42	258.07	256.34	258.15	0.000557	1.36	70.41	33.39	0.25
unico	43	Max WS	A TR_200 2H	118.29	254.42	258.88	256.81	258.96	0.000455	1.44	98.62	36.73	0.23
unico	43	Max WS	A TR_200 3H	139.28	254.42	259.27	257.07	259.37	0.000426	1.48	113.57	38.38	0.23
unico	43	Max WS	A TR_200 4H	154.88	254.42	259.48	257.19	259.59	0.000437	1.55	121.77	39.92	0.24
unico	43	Max WS	A TR_200 6H	172.91	254.42	259.59	257.33	259.71	0.000502	1.69	126.16	41.70	0.25
unico	43	Max WS	A TR_200 8H	179.38	254.42	259.62	257.38	259.75	0.000530	1.74	127.26	42.20	0.26
unico	43	Max WS	A TR_200 12H	179.20	254.42	259.61	257.38	259.74	0.000530	1.74	127.14	42.15	0.26
unico	43	Max WS	A TR_30 1H	35.88	254.42	256.83	255.60	256.90	0.000825	1.16	32.26	26.21	0.28
unico	43	Max WS	A TR_30 2H	50.27	254.42	257.29	255.87	257.36	0.000678	1.23	45.58	30.14	0.26
unico	43	Max WS	A TR_30 3H	57.90	254.42	257.51	256.00	257.58	0.000622	1.25	52.36	31.06	0.25
unico	43	Max WS	A TR_30 4H	61.85	254.42	257.62	256.06	257.69	0.000600	1.27	55.72	31.51	0.25
unico	43	Max WS	A TR_30 6H	67.56	254.42	257.74	256.14	257.82	0.000599	1.30	59.53	32.00	0.25
unico	43	Max WS	A TR_30 8H	72.71	254.42	257.83	256.22	257.91	0.000610	1.34	62.37	32.37	0.26
unico	43	Max WS	A TR_30 12H	76.18	254.42	257.87	256.26	257.95	0.000633	1.38	63.66	32.54	0.26
unico	42	Max WS	A TR_200 1H	81.72	253.79	257.86	256.17	258.00	0.000866	1.74	53.67	22.93	0.31
unico	42	Max WS	A TR_200 2H	118.09	253.79	258.67	256.75	258.83	0.000770	1.90	73.33	25.41	0.30
unico	42	Max WS	A TR_200 3H	139.18	253.79	259.07	256.99	259.24	0.000745	1.99	83.69	26.64	0.30
unico	42	Max WS	A TR_200 4H	154.86	253.79	259.27	257.14	259.46	0.000783	2.10	88.99	27.47	0.31
unico	42	Max WS	A TR_200 6H	172.81	253.79	259.33	257.31	259.56	0.000935	2.32	90.84	28.62	0.34
unico	42	Max WS	A TR_200 8H	178.65	253.79	259.34	257.36	259.59	0.000990	2.39	91.19	28.69	0.35
unico	42	Max WS	A TR_200 12H	178.66	253.79	259.34	257.36	259.59	0.000993	2.39	91.07	28.69	0.35
unico	42	Max WS	A TR_30 1H	35.58	253.79	256.58	255.32	256.68	0.001037	1.38	26.86	18.34	0.31
unico	42	Max WS	A TR_30 2H	50.00	253.79	257.06	255.63	257.17	0.000929	1.51	36.38	20.54	0.30
unico	42	Max WS	A TR_30 3H	57.69	253.79	257.29	255.78	257.41	0.000886	1.56	41.20	21.25	0.30
unico	42	Max WS	A TR_30 4H	61.74	253.79	257.40	255.85	257.52	0.000873	1.59	43.55	21.58	0.30
unico	42	Max WS	A TR_30 6H	67.55	253.79	257.52	255.95	257.64	0.000901	1.66	45.99	21.92	0.31
unico	42	Max WS	A TR_30 8H	72.69	253.79	257.59	256.03	257.73	0.000945	1.72	47.70	22.15	0.31
unico	42	Max WS	A TR_30 12H	76.16	253.79	257.62	256.09	257.77	0.001005	1.79	48.26	22.22	0.32
unico	41.95			Lat Struct									
unico	41.9			Lat Struct									
unico	41	Max WS	A TR_200 1H	81.51	253.65	257.64	255.89	257.77	0.000771	1.65	56.68	23.98	0.29
unico	41	Max WS	A TR_200 2H	118.00	253.65	258.49	256.45	258.63	0.000671	1.79	78.02	26.48	0.28
unico	41	Max WS	A TR_200 3H	139.14	253.65	258.89	256.70	259.05	0.000654	1.88	88.98	28.14	0.28
unico	41	Max WS	A TR_200 4H	153.19	253.65	259.08	256.84	259.25	0.000682	1.97	94.53	29.74	0.29
unico	41	Max WS	A TR_200 6H	165.84	253.65	259.14	256.95	259.33	0.000766	2.11	96.20	30.09	0.31
unico	41	Max WS	A TR_200 8H	170.36	253.65	259.14	256.99	259.34	0.000804	2.16	96.38	30.13	0.31
unico	41	Max WS	A TR_200 12H	171.80	253.65	259.13	257.01	259.34	0.000826	2.19	95.97	30.04	0.32
unico	41	Max WS	A TR_30 1H	35.32	253.65	256.29	255.04	256.39	0.001031	1.36	27.10	19.08	0.31
unico	41	Max WS	A TR_30 2H	49.82	253.65	256.82	255.35	256.92	0.000853	1.44	38.02	21.56	0.29
unico	41	Max WS	A TR_30 3H	57.60	253.65	257.07	255.49	257.17	0.000799	1.49	43.40	22.29	0.28
unico	41	Max WS	A TR_30 4H	61.71	253.65	257.18	255.56	257.29	0.000784	1.51	45.96	22.63	0.28
unico	41	Max WS	A TR_30 6H	67.54	253.65	257.29	255.67	257.40	0.000821	1.58	48.30	22.93	0.29
unico	41	Max WS	A TR_30 8H	72.68	253.65	257.35	255.75	257.48	0.000878	1.66	49.73	23.11	0.30
unico	41	Max WS	A TR_30 12H	76.15	253.65	257.35	255.80	257.49	0.000958	1.74	49.83	23.13	0.32
unico	40.95			Lat Struct									
unico	40.9			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)	
unico	40	Max WS	A TR_200 1H	81.45	253.01	257.48	255.52	257.60	0.000753	1.63	56.79	22.71	0.28
unico	40	Max WS	A TR_200 2H	118.00	253.01	258.34	256.16	258.49	0.000674	1.78	77.53	25.37	0.27
unico	40	Max WS	A TR_200 3H	139.14	253.01	258.75	256.40	258.90	0.000662	1.88	88.08	26.63	0.27
unico	40	Max WS	A TR_200 4H	151.63	253.01	258.94	256.51	259.11	0.000675	1.94	93.25	27.44	0.28
unico	40	Max WS	A TR_200 6H	158.48	253.01	259.01	256.59	259.19	0.000724	2.03	95.16	30.74	0.29
unico	40	Max WS	A TR_200 8H	162.41	253.01	259.01	256.63	259.20	0.000760	2.08	95.19	30.82	0.30
unico	40	Max WS	A TR_200 12H	166.44	253.01	258.98	256.67	259.17	0.000798	2.12	94.23	28.21	0.30
unico	40	Max WS	A TR_30 1H	35.21	253.01	256.09	254.61	256.17	0.000938	1.30	28.17	18.41	0.28
unico	40	Max WS	A TR_30 2H	49.77	253.01	256.65	254.94	256.75	0.000782	1.39	39.06	20.16	0.27
unico	40	Max WS	A TR_30 3H	57.59	253.01	256.91	255.10	257.01	0.000744	1.44	44.29	20.94	0.27
unico	40	Max WS	A TR_30 4H	61.70	253.01	257.02	255.17	257.13	0.000737	1.47	46.73	21.30	0.27
unico	40	Max WS	A TR_30 6H	67.52	253.01	257.11	255.28	257.23	0.000790	1.55	48.67	21.58	0.28
unico	40	Max WS	A TR_30 8H	72.64	253.01	257.16	255.36	257.29	0.000864	1.64	49.69	21.72	0.29
unico	40	Max WS	A TR_30 12H	76.15	253.01	257.14	255.43	257.28	0.000970	1.73	49.30	21.67	0.31
unico	39.5			Bridge									
unico	39	Max WS	A TR_200 1H	81.42	253.10	257.47	255.51	257.59	0.000735	1.60	57.21	22.85	0.28
unico	39	Max WS	A TR_200 2H	117.98	253.10	258.28	256.15	258.42	0.000684	1.78	76.66	25.15	0.28
unico	39	Max WS	A TR_200 3H	139.14	253.10	258.59	256.39	258.75	0.000725	1.92	84.58	26.02	0.29
unico	39	Max WS	A TR_200 4H	151.63	253.10	258.74	256.51	258.92	0.000758	2.00	88.54	26.45	0.30
unico	39	Max WS	A TR_200 6H	158.44	253.10	258.80	256.57	258.99	0.000792	2.06	89.99	26.60	0.30
unico	39	Max WS	A TR_200 8H	162.33	253.10	258.79	256.61	258.99	0.000837	2.12	89.75	26.58	0.31
unico	39	Max WS	A TR_200 12H	166.42	253.10	258.74	256.65	258.95	0.000916	2.20	88.46	26.44	0.33
unico	39	Max WS	A TR_30 1H	35.19	253.10	256.07	254.62	256.15	0.000984	1.30	27.95	18.83	0.29
unico	39	Max WS	A TR_30 2H	49.76	253.10	256.64	254.94	256.73	0.000787	1.37	39.18	20.50	0.27
unico	39	Max WS	A TR_30 3H	57.59	253.10	256.89	255.08	256.99	0.000739	1.41	44.52	21.23	0.27
unico	39	Max WS	A TR_30 4H	61.70	253.10	257.01	255.16	257.11	0.000730	1.44	47.01	21.55	0.27
unico	39	Max WS	A TR_30 6H	67.51	253.10	257.10	255.26	257.21	0.000780	1.52	48.97	21.81	0.28
unico	39	Max WS	A TR_30 8H	72.64	253.10	257.15	255.35	257.27	0.000853	1.61	49.96	21.94	0.29
unico	39	Max WS	A TR_30 12H	76.14	253.10	257.13	255.41	257.26	0.000962	1.70	49.51	21.88	0.31
unico	38.3333	Max WS	A TR_200 1H	81.42	253.08	257.46	255.21	257.54	0.000455	1.29	69.58	27.96	0.22
unico	38.3333	Max WS	A TR_200 2H	117.97	253.08	258.28	255.68	258.38	0.000421	1.44	93.71	30.89	0.22
unico	38.3333	Max WS	A TR_200 3H	139.14	253.08	258.60	255.92	258.71	0.000446	1.55	103.58	32.17	0.23
unico	38.3333	Max WS	A TR_200 4H	151.63	253.08	258.75	256.07	258.87	0.000467	1.62	108.56	32.88	0.24
unico	38.3333	Max WS	A TR_200 6H	158.44	253.08	258.81	256.14	258.93	0.000488	1.67	110.38	33.24	0.24
unico	38.3333	Max WS	A TR_200 8H	162.33	253.08	258.80	256.18	258.93	0.000515	1.71	110.10	33.18	0.25
unico	38.3333	Max WS	A TR_200 12H	166.43	253.08	258.75	256.22	258.89	0.000563	1.78	108.51	32.87	0.26
unico	38.3333	Max WS	A TR_30 1H	35.18	253.08	256.04	254.44	256.09	0.000583	1.03	34.41	19.46	0.23
unico	38.3333	Max WS	A TR_30 2H	49.75	253.08	256.62	254.72	256.68	0.000483	1.10	47.43	24.45	0.22
unico	38.3333	Max WS	A TR_30 3H	57.58	253.08	256.88	254.85	256.95	0.000456	1.14	53.94	25.73	0.22
unico	38.3333	Max WS	A TR_30 4H	61.70	253.08	257.00	254.92	257.07	0.000451	1.17	56.99	26.40	0.22
unico	38.3333	Max WS	A TR_30 6H	67.51	253.08	257.09	255.00	257.16	0.000483	1.23	59.40	26.80	0.23
unico	38.3333	Max WS	A TR_30 8H	72.64	253.08	257.13	255.08	257.22	0.000529	1.30	60.60	26.94	0.24
unico	38.3333	Max WS	A TR_30 12H	76.14	253.08	257.11	255.13	257.20	0.000597	1.38	60.00	26.87	0.25
foenna_01	38	Max WS	A TR_200 1H	134.93	253.07	257.46	255.71	257.64	0.001030	1.94	76.40	30.62	0.34
foenna_01	38	Max WS	A TR_200 2H	198.05	253.07	258.28	256.32	258.51	0.000977	2.19	102.70	33.29	0.34
foenna_01	38	Max WS	A TR_200 3H	226.37	253.07	258.60	256.61	258.84	0.000972	2.29	113.29	34.31	0.34
foenna_01	38	Max WS	A TR_200 4H	240.92	253.07	258.75	256.70	259.00	0.000970	2.33	118.57	34.81	0.34
foenna_01	38	Max WS	A TR_200 6H	246.03	253.07	258.81	256.74	259.06	0.000967	2.35	120.50	34.99	0.34
foenna_01	38	Max WS	A TR_200 8H	245.44	253.07	258.80	256.74	259.05	0.000969	2.35	120.20	34.96	0.34
foenna_01	38	Max WS	A TR_200 12H	241.25	253.07	258.75	256.71	259.00	0.000973	2.34	118.52	34.81	0.34
foenna_01	38	Max WS	A TR_30 1H	53.79	253.07	256.04	254.69	256.14	0.001081	1.42	38.07	20.61	0.32
foenna_01	38	Max WS	A TR_30 2H	80.74	253.07	256.62	255.09	256.75	0.001048	1.62	51.87	27.89	0.32
foenna_01	38	Max WS	A TR_30 3H	95.40	253.07	256.88	255.27	257.03	0.001031	1.72	59.21	28.73	0.33
foenna_01	38	Max WS	A TR_30 4H	102.44	253.07	257.00	255.35	257.15	0.001023	1.76	62.60	29.11	0.33
foenna_01	38	Max WS	A TR_30 6H	108.17	253.07	257.09	255.42	257.25	0.001020	1.79	65.24	29.41	0.33
foenna_01	38	Max WS	A TR_30 8H	111.10	253.07	257.13	255.45	257.29	0.001019	1.81	66.57	29.55	0.33
foenna_01	38	Max WS	A TR_30 12H	109.68	253.07	257.11	255.44	257.27	0.001020	1.80	65.90	29.48	0.33
foenna_01	37.99	Max WS	A TR_200 1H	134.92	253.07	257.46	255.71	257.64	0.001030	1.94	76.40	30.62	0.34
foenna_01	37.99	Max WS	A TR_200 2H	198.03	253.07	258.28	256.33	258.51	0.000977	2.19	102.69	33.29	0.34
foenna_01	37.99	Max WS	A TR_200 3H	226.37	253.07	258.60	256.61	258.84	0.000972	2.29	113.29	34.31	0.34
foenna_01	37.99	Max WS	A TR_200 4H	240.92	253.07	258.75	256.70	259.00	0.000970	2.33	118.56	34.81	0.34
foenna_01	37.99	Max WS	A TR_200 6H	246.04	253.07	258.80	256.74	259.06	0.000967	2.35	120.49	34.99	0.34
foenna_01	37.99	Max WS	A TR_200 8H	245.44	253.07	258.80	256.74	259.05	0.000969	2.35	120.20	34.96	0.34
foenna_01	37.99	Max WS	A TR_200 12H	241.25	253.07	258.75	256.71	259.00	0.000973	2.34	118.52	34.81	0.34
foenna_01	37.99	Max WS	A TR_30 1H	53.79	253.07	256.04	254.69	256.14	0.001082	1.42	38.07	20.60	0.32
foenna_01	37.99	Max WS	A TR_30 2H	80.77	253.07	256.62	255.08	256.75	0.001049	1.62	51.86	27.89	0.32
foenna_01	37.99	Max WS	A TR_30 3H	95.39	253.07	256.88	255.27	257.03	0.001031	1.72	59.20	28.73	0.33
foenna_01	37.99	Max WS	A TR_30 4H	102.43	253.07	257.00	255.35	257.15	0.001023	1.76	62.60	29.11	0.33
foenna_01	37.99	Max WS	A TR_30 6H	108.17	253.07	257.09	255.42	257.25	0.001020	1.79	65.24	29.41	0.33
foenna_01	37.99	Max WS	A TR_30 8H	111.10	253.07	257.13	255.45	257.29	0.001019	1.81	66.57	29.55	0.33
foenna_01	37.99	Max WS	A TR_30 12H	109.68	253.07	257.11	255.44	257.27	0.001021	1.80	65.89	29.48	0.33
foenna_01	37.95			Lat Struct									
foenna_01	37.9			Lat Struct									
foenna_01	37.5	Max WS	A TR_200 1H	134.91	252.78	257.39	255.82	257.62	0.001326	2.18	67.99	28.15	0.38
foenna_01	37.5	Max WS	A TR_200 2H	198.04	252.78	258.20	256.50	258.48	0.001258	2.46	91.87	31.09	0.38
foenna_01	37.5	Max WS	A TR_200 3H	226.37	252.78	258.51	256.74	258.81	0.001252	2.57	101.76	32.80	0.39
foenna_01	37.5	Max WS	A TR_200 4H	240.93	252.78	258.66	256.86	258.97	0.001252	2.63	106.79	33.90	0.39
foenna_01	37.5	Max WS	A TR_200 6H	246.02	252.78	258.71	256.89	259.03	0.001248	2.64	108.67	34.33	0.39
foenna_01	37.5	Max WS	A TR_200 8H	245.44	252.78	258.70	256.89	259.02	0.001251	2.64	108.37	34.26	0.39

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)	
foenna_01	37.5	Max WS	A TR_200 12H	241.24	252.78	258.66	256.86	258.97	0.001256	2.63	106.74	33.89	0.39
foenna_01	37.5	Max WS	A TR_30 1H	53.76	252.78	255.98	254.74	256.11	0.001407	1.59	33.76	17.17	0.36
foenna_01	37.5	Max WS	A TR_30 2H	80.74	252.78	256.55	255.15	256.72	0.001362	1.83	45.88	24.68	0.37
foenna_01	37.5	Max WS	A TR_30 3H	95.37	252.78	256.81	255.35	256.99	0.001338	1.94	52.36	25.73	0.37
foenna_01	37.5	Max WS	A TR_30 4H	102.43	252.78	256.92	255.44	257.12	0.001329	1.98	55.37	26.21	0.37
foenna_01	37.5	Max WS	A TR_30 6H	108.17	252.78	257.01	255.51	257.21	0.001324	2.02	57.74	26.57	0.37
foenna_01	37.5	Max WS	A TR_30 8H	111.10	252.78	257.06	255.55	257.26	0.001323	2.04	58.92	26.75	0.37
foenna_01	37.5	Max WS	A TR_30 12H	109.68	252.78	257.03	255.53	257.24	0.001326	2.03	58.31	26.66	0.37
foenna_01	37	Max WS	A TR_200 1H	134.88	252.49	257.30	255.90	257.58	0.001759	2.44	61.09	25.63	0.42
foenna_01	37	Max WS	A TR_200 2H	198.01	252.49	258.09	256.66	258.44	0.001677	2.74	82.38	28.11	0.43
foenna_01	37	Max WS	A TR_200 3H	226.37	252.49	258.40	256.90	258.77	0.001660	2.86	91.18	29.07	0.43
foenna_01	37	Max WS	A TR_200 4H	240.92	252.49	258.55	257.01	258.93	0.001653	2.92	95.57	29.54	0.43
foenna_01	37	Max WS	A TR_200 6H	246.01	252.49	258.60	257.04	258.99	0.001646	2.94	97.20	29.71	0.43
foenna_01	37	Max WS	A TR_200 8H	245.42	252.49	258.59	257.04	258.98	0.001649	2.94	96.94	29.68	0.43
foenna_01	37	Max WS	A TR_200 12H	241.25	252.49	258.55	257.01	258.93	0.001660	2.93	95.51	29.53	0.43
foenna_01	37	Max WS	A TR_30 1H	53.74	252.49	255.90	254.72	256.06	0.001843	1.78	30.13	14.81	0.40
foenna_01	37	Max WS	A TR_30 2H	80.72	252.49	256.45	255.17	256.67	0.001858	2.07	40.56	23.00	0.42
foenna_01	37	Max WS	A TR_30 3H	95.35	252.49	256.71	255.38	256.95	0.001817	2.18	46.55	23.80	0.42
foenna_01	37	Max WS	A TR_30 4H	102.42	252.49	256.83	255.48	257.07	0.001800	2.23	49.32	24.16	0.42
foenna_01	37	Max WS	A TR_30 6H	108.17	252.49	256.91	255.56	257.17	0.001792	2.27	51.48	24.44	0.42
foenna_01	37	Max WS	A TR_30 8H	111.10	252.49	256.96	255.60	257.22	0.001789	2.29	52.56	24.57	0.42
foenna_01	37	Max WS	A TR_30 12H	109.67	252.49	256.94	255.58	257.19	0.001794	2.28	51.99	24.50	0.42
foenna_01	36	Max WS	A TR_200 1H	134.83	252.22	257.14	255.61	257.38	0.001374	2.31	67.51	26.28	0.38
foenna_01	36	Max WS	A TR_200 2H	198.01	252.22	257.95	256.32	258.25	0.001365	2.62	89.78	28.78	0.39
foenna_01	36	Max WS	A TR_200 3H	226.36	252.22	258.25	256.54	258.58	0.001375	2.75	98.80	29.74	0.39
foenna_01	36	Max WS	A TR_200 4H	240.92	252.22	258.40	256.65	258.74	0.001379	2.81	103.30	30.20	0.40
foenna_01	36	Max WS	A TR_200 6H	245.98	252.22	258.46	256.69	258.80	0.001376	2.82	104.98	30.38	0.40
foenna_01	36	Max WS	A TR_200 8H	245.40	252.22	258.45	256.68	258.79	0.001380	2.82	104.70	30.35	0.40
foenna_01	36	Max WS	A TR_200 12H	241.23	252.22	258.40	256.65	258.74	0.001386	2.81	103.20	30.19	0.40
foenna_01	36	Max WS	A TR_30 1H	53.71	252.22	255.71	254.26	255.86	0.001358	1.68	33.29	21.21	0.35
foenna_01	36	Max WS	A TR_30 2H	80.67	252.22	256.29	254.78	256.47	0.001332	1.93	46.45	23.66	0.36
foenna_01	36	Max WS	A TR_30 3H	95.32	252.22	256.55	255.01	256.75	0.001332	2.04	52.73	24.47	0.36
foenna_01	36	Max WS	A TR_30 4H	102.40	252.22	256.67	255.12	256.88	0.001335	2.09	55.61	24.83	0.36
foenna_01	36	Max WS	A TR_30 6H	108.15	252.22	256.76	255.20	256.97	0.001340	2.13	57.84	25.11	0.37
foenna_01	36	Max WS	A TR_30 8H	111.09	252.22	256.80	255.25	257.02	0.001344	2.15	58.95	25.25	0.37
foenna_01	36	Max WS	A TR_30 12H	109.67	252.22	256.78	255.23	256.99	0.001346	2.14	58.36	25.18	0.37
foenna_01	35	Max WS	A TR_200 1H	134.80	252.17	256.95	255.34	257.21	0.001472	2.33	64.81	25.49	0.39
foenna_01	35	Max WS	A TR_200 2H	198.01	252.17	257.76	256.13	258.07	0.001458	2.65	86.30	28.03	0.40
foenna_01	35	Max WS	A TR_200 3H	226.35	252.17	258.06	256.37	258.41	0.001468	2.78	94.99	28.99	0.41
foenna_01	35	Max WS	A TR_200 4H	240.91	252.17	258.21	256.49	258.57	0.001472	2.84	99.34	29.46	0.41
foenna_01	35	Max WS	A TR_200 6H	245.93	252.17	258.26	256.52	258.63	0.001467	2.85	100.97	29.64	0.41
foenna_01	35	Max WS	A TR_200 8H	245.37	252.17	258.25	256.52	258.62	0.001472	2.85	100.69	29.61	0.41
foenna_01	35	Max WS	A TR_200 12H	241.21	252.17	258.20	256.49	258.57	0.001481	2.84	99.20	29.45	0.41
foenna_01	35	Max WS	A TR_30 1H	53.67	252.17	255.55	254.08	255.69	0.001379	1.65	32.90	17.51	0.35
foenna_01	35	Max WS	A TR_30 2H	80.65	252.17	256.12	254.58	256.30	0.001418	1.92	44.72	22.85	0.37
foenna_01	35	Max WS	A TR_30 3H	95.31	252.17	256.38	254.80	256.58	0.001422	2.04	50.71	23.67	0.37
foenna_01	35	Max WS	A TR_30 4H	102.39	252.17	256.49	254.91	256.71	0.001424	2.09	53.48	24.04	0.37
foenna_01	35	Max WS	A TR_30 6H	108.14	252.17	256.58	254.99	256.80	0.001432	2.14	55.59	24.31	0.38
foenna_01	35	Max WS	A TR_30 8H	111.08	252.17	256.62	255.03	256.85	0.001438	2.16	56.63	24.45	0.38
foenna_01	35	Max WS	A TR_30 12H	109.67	252.17	256.60	255.01	256.82	0.001440	2.15	56.07	24.37	0.38
foenna_01	34.95			Lat Struct									
foenna_01	34.9			Lat Struct									
foenna_01	34	Max WS	A TR_200 1H	134.78	251.88	256.61	255.06	256.89	0.001555	2.43	61.52	23.78	0.41
foenna_01	34	Max WS	A TR_200 2H	197.98	251.88	257.40	255.83	257.76	0.001584	2.80	81.13	26.06	0.42
foenna_01	34	Max WS	A TR_200 3H	226.29	251.88	257.69	256.08	258.09	0.001610	2.94	88.98	26.92	0.43
foenna_01	34	Max WS	A TR_200 4H	240.82	251.88	257.84	256.20	258.25	0.001623	3.01	92.89	27.34	0.44
foenna_01	34	Max WS	A TR_200 6H	245.77	251.88	257.89	256.24	258.31	0.001616	3.03	94.43	27.50	0.44
foenna_01	34	Max WS	A TR_200 8H	245.20	251.88	257.88	256.23	258.30	0.001623	3.03	94.13	27.47	0.44
foenna_01	34	Max WS	A TR_200 12H	241.15	251.88	257.83	256.20	258.24	0.001638	3.02	92.67	27.31	0.44
foenna_01	34	Max WS	A TR_30 1H	53.65	251.88	255.24	253.83	255.38	0.001368	1.67	32.30	16.06	0.35
foenna_01	34	Max WS	A TR_30 2H	80.64	251.88	255.80	254.30	255.99	0.001427	1.97	43.21	21.44	0.37
foenna_01	34	Max WS	A TR_30 3H	95.30	251.88	256.05	254.53	256.27	0.001453	2.11	48.73	22.17	0.38
foenna_01	34	Max WS	A TR_30 4H	102.38	251.88	256.17	254.63	256.40	0.001465	2.17	51.26	22.50	0.39
foenna_01	34	Max WS	A TR_30 6H	108.13	251.88	256.25	254.71	256.49	0.001484	2.22	53.15	22.74	0.39
foenna_01	34	Max WS	A TR_30 8H	111.07	251.88	256.29	254.75	256.53	0.001495	2.24	54.07	22.86	0.39
foenna_01	34	Max WS	A TR_30 12H	109.65	251.88	256.27	254.73	256.51	0.001497	2.23	53.52	22.79	0.39
foenna_01	33	Max WS	A TR_200 1H	134.75	251.65	256.30	254.86	256.59	0.001666	2.47	60.58	24.01	0.42
foenna_01	33	Max WS	A TR_200 2H	197.77	251.65	257.08	255.61	257.45	0.001662	2.82	80.28	26.31	0.43
foenna_01	33	Max WS	A TR_200 3H	226.04	251.65	257.38	255.84	257.78	0.001685	2.97	88.09	27.18	0.44
foenna_01	33	Max WS	A TR_200 4H	240.56	251.65	257.52	255.95	257.94	0.001694	3.04	92.00	27.60	0.45
foenna_01	33	Max WS	A TR_200 6H	245.36	251.65	257.58	255.99	258.00	0.001679	3.05	93.65	27.77	0.44
foenna_01	33	Max WS	A TR_200 8H	245.00	251.65	257.56	255.99	257.99	0.001693	3.06	93.27	27.73	0.45
foenna_01	33	Max WS	A TR_200 12H	241.05	251.65	257.51	255.96	257.93	0.001719	3.05	91.66	27.56	0.45
foenna_01	33	Max WS	A TR_30 1H	53.64	251.65	254.96	253.61	255.11	0.001514	1.71	31.46	16.99	0.37
foenna_01	33	Max WS	A TR_30 2H	80.62	251.65	255.52	254.10	255.72	0.001534	2.01	42.68	21.70	0.39
foenna_01	33	Max WS	A TR_30 3H	95.27	251.65	255.77	254.33	255.99	0.001551	2.14	48.16	22.43	0.39
foenna_01	33	Max WS	A TR_30 4H	102.35	251.65	255.88	254.44	256.11	0.001562	2.20	50.66	22.76	0.40
foenna_01	33	Max WS	A TR_30 6H	108.06	251.65	255.96	254.52	256.20	0.001584	2.25	52.46	22.99	0.40
foenna_01	33	Max WS	A TR_30 8H	111.01	251.65	255.99	254.55	256.24	0.001599	2.28	53.33	23.10	0.41
foenna_01	33	Max WS	A TR_30 12H	109.57	251.65	255.97	254.54	256.22	0.001605	2.27	52.75	23.02	0.41

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)	
foenna_01	32.7			Lat Struct									
foenna_01	32.6			Lat Struct									
foenna_01	32	Max WS	A TR_200 1H	134.74	251.29	256.25	254.55	256.50	0.001331	2.26	64.70	23.67	0.38
foenna_01	32	Max WS	A TR_200 2H	197.71	251.29	257.04	255.26	257.36	0.001391	2.63	84.33	27.39	0.40
foenna_01	32	Max WS	A TR_200 3H	225.91	251.29	257.33	255.52	257.69	0.001425	2.78	92.66	29.45	0.41
foenna_01	32	Max WS	A TR_200 4H	240.44	251.29	257.47	255.63	257.85	0.001434	2.84	96.93	29.82	0.41
foenna_01	32	Max WS	A TR_200 6H	245.27	251.29	257.53	255.67	257.91	0.001421	2.85	98.74	29.98	0.41
foenna_01	32	Max WS	A TR_200 8H	244.93	251.29	257.52	255.67	257.90	0.001432	2.86	98.33	29.94	0.41
foenna_01	32	Max WS	A TR_200 12H	241.03	251.29	257.46	255.63	257.84	0.001456	2.86	96.54	29.79	0.41
foenna_01	32	Max WS	A TR_30 1H	53.64	251.29	254.93	253.40	255.04	0.001069	1.50	35.93	17.41	0.31
foenna_01	32	Max WS	A TR_30 2H	80.62	251.29	255.49	253.84	255.64	0.001131	1.78	47.39	21.48	0.34
foenna_01	32	Max WS	A TR_30 3H	95.27	251.29	255.73	254.06	255.91	0.001172	1.91	52.78	22.19	0.35
foenna_01	32	Max WS	A TR_30 4H	102.35	251.29	255.84	254.15	256.04	0.001191	1.97	55.25	22.50	0.35
foenna_01	32	Max WS	A TR_30 6H	108.04	251.29	255.92	254.22	256.12	0.001218	2.03	57.00	22.72	0.36
foenna_01	32	Max WS	A TR_30 8H	111.01	251.29	255.96	254.26	256.17	0.001234	2.06	57.84	22.83	0.36
foenna_01	32	Max WS	A TR_30 12H	109.55	251.29	255.93	254.25	256.14	0.001235	2.05	57.27	22.75	0.36
foenna_01	31.8333	Max WS	A TR_200 1H	139.14	251.44	256.14	254.63	256.43	0.001581	2.42	62.21	23.55	0.41
foenna_01	31.8333	Max WS	A TR_200 2H	204.71	251.44	256.90	255.34	257.28	0.001661	2.83	81.06	27.03	0.44
foenna_01	31.8333	Max WS	A TR_200 3H	233.95	251.44	257.18	255.59	257.60	0.001701	2.98	88.96	28.86	0.45
foenna_01	31.8333	Max WS	A TR_200 4H	249.01	251.44	257.32	255.71	257.76	0.001711	3.05	93.05	29.25	0.45
foenna_01	31.8333	Max WS	A TR_200 6H	254.95	251.44	257.38	255.76	257.82	0.001715	3.08	94.63	29.39	0.45
foenna_01	31.8333	Max WS	A TR_200 8H	253.85	251.44	257.37	255.75	257.81	0.001714	3.08	94.34	29.37	0.45
foenna_01	31.8333	Max WS	A TR_200 12H	248.33	251.44	257.32	255.70	257.75	0.001711	3.05	92.87	29.24	0.45
foenna_01	31.8333	Max WS	A TR_30 1H	55.33	251.44	254.85	253.48	254.98	0.001291	1.61	34.46	16.42	0.35
foenna_01	31.8333	Max WS	A TR_30 2H	83.22	251.44	255.39	253.92	255.58	0.001357	1.91	45.38	21.28	0.37
foenna_01	31.8333	Max WS	A TR_30 3H	98.54	251.44	255.63	254.14	255.84	0.001411	2.06	50.55	22.02	0.38
foenna_01	31.8333	Max WS	A TR_30 4H	105.79	251.44	255.74	254.23	255.96	0.001430	2.12	52.94	22.35	0.38
foenna_01	31.8333	Max WS	A TR_30 6H	111.38	251.44	255.82	254.30	256.05	0.001449	2.17	54.68	22.59	0.39
foenna_01	31.8333	Max WS	A TR_30 8H	114.19	251.44	255.85	254.34	256.09	0.001461	2.20	55.52	22.71	0.39
foenna_01	31.8333	Max WS	A TR_30 12H	112.53	251.44	255.83	254.31	256.07	0.001456	2.18	55.00	22.64	0.39
foenna_01	31	Max WS	A TR_200 1H	139.00	252.21	255.52	254.81	255.98	0.003316	3.04	48.77	22.85	0.59
foenna_01	31	Max WS	A TR_200 2H	204.69	252.21	256.22	255.41	256.79	0.003126	3.44	65.53	25.05	0.59
foenna_01	31	Max WS	A TR_200 3H	233.92	252.21	256.50	255.63	257.11	0.003057	3.58	72.65	25.93	0.59
foenna_01	31	Max WS	A TR_200 4H	249.00	252.21	256.64	255.74	257.27	0.003026	3.65	76.24	26.36	0.59
foenna_01	31	Max WS	A TR_200 6H	254.94	252.21	256.69	255.78	257.33	0.003014	3.67	77.66	26.53	0.59
foenna_01	31	Max WS	A TR_200 8H	253.85	252.21	256.68	255.78	257.32	0.003017	3.67	77.39	26.50	0.59
foenna_01	31	Max WS	A TR_200 12H	248.32	252.21	256.63	255.74	257.26	0.003028	3.65	76.08	26.34	0.59
foenna_01	31	Max WS	A TR_30 1H	55.30	252.21	254.26	253.70	254.53	0.003837	2.31	23.97	14.90	0.58
foenna_01	31	Max WS	A TR_30 2H	83.18	252.21	254.74	254.10	255.10	0.003917	2.64	31.87	20.39	0.60
foenna_01	31	Max WS	A TR_30 3H	98.48	252.21	254.98	254.30	255.36	0.003690	2.76	36.77	21.14	0.60
foenna_01	31	Max WS	A TR_30 4H	105.73	252.21	255.09	254.39	255.49	0.003562	2.81	39.16	21.49	0.59
foenna_01	31	Max WS	A TR_30 6H	111.34	252.21	255.16	254.46	255.57	0.003532	2.86	40.75	21.72	0.59
foenna_01	31	Max WS	A TR_30 8H	114.18	252.21	255.19	254.49	255.61	0.003543	2.89	41.44	21.82	0.59
foenna_01	31	Max WS	A TR_30 12H	112.52	252.21	255.17	254.48	255.59	0.003557	2.87	40.96	21.75	0.59
foenna_01	30.5			Inl Struct									
foenna_01	30	Max WS	A TR_200 1H	137.80	250.40	255.10	252.82	255.23	0.000545	1.69	94.28	28.87	0.26
foenna_01	30	Max WS	A TR_200 2H	204.69	250.40	255.41	253.34	255.64	0.000930	2.31	103.25	29.74	0.35
foenna_01	30	Max WS	A TR_200 3H	233.55	250.40	255.50	253.55	255.79	0.001127	2.58	105.90	30.00	0.38
foenna_01	30	Max WS	A TR_200 4H	248.77	250.40	255.54	253.65	255.87	0.001231	2.71	107.35	30.13	0.40
foenna_01	30	Max WS	A TR_200 6H	254.83	250.40	255.57	253.70	255.90	0.001270	2.76	107.99	30.20	0.41
foenna_01	30	Max WS	A TR_200 8H	253.84	250.40	255.56	253.69	255.90	0.001262	2.75	107.92	30.19	0.40
foenna_01	30	Max WS	A TR_200 12H	248.32	250.40	255.55	253.65	255.87	0.001224	2.70	107.43	30.14	0.40
foenna_01	30	Max WS	A TR_30 1H	54.99	250.40	253.69	251.89	253.75	0.000379	1.08	56.49	24.85	0.20
foenna_01	30	Max WS	A TR_30 2H	82.74	250.40	254.32	252.27	254.40	0.000414	1.29	72.71	26.65	0.22
foenna_01	30	Max WS	A TR_30 3H	98.12	250.40	254.60	252.44	254.69	0.000440	1.39	80.14	27.44	0.23
foenna_01	30	Max WS	A TR_30 4H	105.52	250.40	254.72	252.52	254.81	0.000454	1.45	83.39	27.77	0.23
foenna_01	30	Max WS	A TR_30 6H	111.28	250.40	254.77	252.57	254.87	0.000481	1.50	84.79	27.92	0.24
foenna_01	30	Max WS	A TR_30 8H	114.08	250.40	254.77	252.60	254.87	0.000506	1.54	84.76	27.91	0.25
foenna_01	30	Max WS	A TR_30 12H	112.42	250.40	254.68	252.59	254.79	0.000533	1.56	82.39	27.67	0.25
foenna_01	29.6			Lat Struct									
foenna_01	29.5			Lat Struct									
foenna_01	29	Max WS	A TR_200 1H	137.76	250.23	255.07	252.95	255.22	0.000756	1.82	83.81	28.43	0.29
foenna_01	29	Max WS	A TR_200 2H	204.69	250.23	255.34	253.57	255.63	0.001296	2.49	91.68	29.24	0.39
foenna_01	29	Max WS	A TR_200 3H	233.00	250.23	255.41	253.81	255.77	0.001576	2.78	93.77	29.45	0.43
foenna_01	29	Max WS	A TR_200 4H	248.58	250.23	255.45	253.94	255.85	0.001734	2.93	94.91	29.56	0.45
foenna_01	29	Max WS	A TR_200 6H	254.76	250.23	255.47	253.98	255.89	0.001794	2.99	95.42	29.61	0.46
foenna_01	29	Max WS	A TR_200 8H	253.82	250.23	255.47	253.98	255.88	0.001782	2.98	95.39	29.61	0.46
foenna_01	29	Max WS	A TR_200 12H	248.32	250.23	255.45	253.94	255.85	0.001725	2.92	95.01	29.57	0.45
foenna_01	29	Max WS	A TR_30 1H	54.97	250.23	253.67	251.87	253.74	0.000592	1.21	47.30	21.53	0.24
foenna_01	29	Max WS	A TR_30 2H	82.72	250.23	254.30	252.28	254.39	0.000616	1.41	62.78	26.14	0.26
foenna_01	29	Max WS	A TR_30 3H	98.08	250.23	254.57	252.48	254.68	0.000636	1.52	70.02	26.95	0.26
foenna_01	29	Max WS	A TR_30 4H	105.51	250.23	254.69	252.57	254.80	0.000649	1.57	73.19	27.30	0.27
foenna_01	29	Max WS	A TR_30 6H	111.27	250.23	254.73	252.64	254.86	0.000687	1.63	74.52	27.44	0.28
foenna_01	29	Max WS	A TR_30 8H	114.07	250.23	254.73	252.67	254.87	0.000724	1.67	74.43	27.43	0.28
foenna_01	29	Max WS	A TR_30 12H	112.41	250.23	254.64	252.65	254.78	0.000771	1.70	72.05	27.17	0.29
foenna_01	28	Max WS	A TR_200 1H	137.80	249.55	255.09	252.15	255.17	0.000347	1.35	113.69	33.36	0.20

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)	
foenna_01	28	Max WS	A TR_200 2H	204.70	249.55	255.39	252.76	255.55	0.000600	1.85	123.99	34.25	0.27
foenna_01	28	Max WS	A TR_200 3H	233.34	249.55	255.48	252.98	255.68	0.000730	2.07	126.96	34.49	0.30
foenna_01	28	Max WS	A TR_200 4H	248.72	249.55	255.53	253.09	255.75	0.000800	2.18	128.59	34.63	0.31
foenna_01	28	Max WS	A TR_200 6H	254.79	249.55	255.55	253.13	255.78	0.000826	2.22	129.31	34.69	0.32
foenna_01	28	Max WS	A TR_200 8H	253.84	249.55	255.55	253.12	255.77	0.000821	2.21	129.24	34.69	0.32
foenna_01	28	Max WS	A TR_200 12H	248.32	249.55	255.53	253.08	255.75	0.000796	2.17	128.69	34.64	0.31
foenna_01	28	Max WS	A TR_30 1H	54.95	249.55	253.68	251.20	253.71	0.000221	0.84	69.44	29.28	0.15
foenna_01	28	Max WS	A TR_30 2H	82.74	249.55	254.31	251.56	254.36	0.000253	1.01	88.60	31.12	0.17
foenna_01	28	Max WS	A TR_30 3H	98.09	249.55	254.59	251.74	254.64	0.000273	1.11	97.31	31.91	0.18
foenna_01	28	Max WS	A TR_30 4H	105.50	249.55	254.70	251.82	254.77	0.000284	1.15	101.11	32.26	0.18
foenna_01	28	Max WS	A TR_30 6H	111.27	249.55	254.75	251.88	254.82	0.000302	1.19	102.73	32.40	0.19
foenna_01	28	Max WS	A TR_30 8H	114.08	249.55	254.75	251.90	254.82	0.000318	1.23	102.66	32.39	0.19
foenna_01	28	Max WS	A TR_30 12H	112.40	249.55	254.67	251.89	254.74	0.000334	1.24	99.85	32.14	0.20
foenna_02	27.9	Max WS	A TR_200 1H	164.78	249.55	255.09	252.40	255.21	0.000497	1.61	113.69	33.36	0.24
foenna_02	27.9	Max WS	A TR_200 2H	185.65	249.55	255.39	252.60	255.52	0.000494	1.68	123.99	34.25	0.24
foenna_02	27.9	Max WS	A TR_200 3H	184.22	249.55	255.48	252.60	255.60	0.000455	1.63	126.96	34.49	0.24
foenna_02	27.9	Max WS	A TR_200 4H	183.72	249.55	255.53	252.59	255.65	0.000436	1.61	128.59	34.63	0.23
foenna_02	27.9	Max WS	A TR_200 6H	183.15	249.55	255.55	252.58	255.67	0.000427	1.60	129.31	34.69	0.23
foenna_02	27.9	Max WS	A TR_200 8H	182.82	249.55	255.55	252.58	255.66	0.000426	1.59	129.24	34.69	0.23
foenna_02	27.9	Max WS	A TR_200 12H	182.16	249.55	255.53	252.58	255.65	0.000428	1.59	128.69	34.64	0.23
foenna_02	27.9	Max WS	A TR_30 1H	77.30	249.55	253.68	251.49	253.74	0.000438	1.18	69.44	29.28	0.21
foenna_02	27.9	Max WS	A TR_30 2H	111.70	249.55	254.31	251.89	254.40	0.000462	1.37	88.60	31.12	0.23
foenna_02	27.9	Max WS	A TR_30 3H	128.80	249.55	254.59	252.06	254.69	0.000471	1.45	97.31	31.91	0.23
foenna_02	27.9	Max WS	A TR_30 4H	136.33	249.55	254.70	252.13	254.81	0.000474	1.48	101.11	32.26	0.23
foenna_02	27.9	Max WS	A TR_30 6H	139.31	249.55	254.75	252.16	254.86	0.000473	1.50	102.73	32.40	0.23
foenna_02	27.9	Max WS	A TR_30 8H	139.08	249.55	254.75	252.16	254.86	0.000472	1.49	102.66	32.39	0.23
foenna_02	27.9	Max WS	A TR_30 12H	133.09	249.55	254.67	252.11	254.77	0.000468	1.47	99.85	32.14	0.23
foenna_02	27.89	Max WS	A TR_200 1H	164.82	249.55	255.09	252.40	255.21	0.000497	1.61	113.69	33.36	0.24
foenna_02	27.89	Max WS	A TR_200 2H	185.59	249.55	255.39	252.60	255.52	0.000493	1.68	123.99	34.25	0.24
foenna_02	27.89	Max WS	A TR_200 3H	184.28	249.55	255.48	252.60	255.60	0.000455	1.63	126.96	34.49	0.24
foenna_02	27.89	Max WS	A TR_200 4H	183.65	249.55	255.53	252.59	255.65	0.000436	1.61	128.59	34.63	0.23
foenna_02	27.89	Max WS	A TR_200 6H	183.18	249.55	255.55	252.58	255.67	0.000427	1.60	129.31	34.69	0.23
foenna_02	27.89	Max WS	A TR_200 8H	182.82	249.55	255.55	252.58	255.66	0.000426	1.59	129.24	34.69	0.23
foenna_02	27.89	Max WS	A TR_200 12H	182.16	249.55	255.53	252.58	255.65	0.000428	1.59	128.69	34.64	0.23
foenna_02	27.89	Max WS	A TR_30 1H	77.32	249.55	253.68	251.49	253.74	0.000438	1.18	69.44	29.28	0.21
foenna_02	27.89	Max WS	A TR_30 2H	111.73	249.55	254.31	251.88	254.40	0.000462	1.37	88.60	31.12	0.23
foenna_02	27.89	Max WS	A TR_30 3H	128.80	249.55	254.59	252.06	254.69	0.000471	1.45	97.31	31.91	0.23
foenna_02	27.89	Max WS	A TR_30 4H	136.31	249.55	254.70	252.14	254.81	0.000474	1.48	101.11	32.26	0.23
foenna_02	27.89	Max WS	A TR_30 6H	139.34	249.55	254.75	252.16	254.86	0.000473	1.50	102.72	32.40	0.23
foenna_02	27.89	Max WS	A TR_30 8H	139.08	249.55	254.75	252.16	254.86	0.000472	1.49	102.66	32.39	0.23
foenna_02	27.89	Max WS	A TR_30 12H	133.10	249.55	254.67	252.10	254.77	0.000468	1.47	99.85	32.14	0.23
foenna_02	27.85			Lat Struct									
foenna_02	27.84			Lat Struct									
foenna_02	27.8	Max WS	A TR_200 1H	164.70	249.56	255.05	252.54	255.19	0.000577	1.73	106.70	32.35	0.26
foenna_02	27.8	Max WS	A TR_200 2H	184.92	249.56	255.35	252.73	255.50	0.000566	1.79	116.67	33.29	0.26
foenna_02	27.8	Max WS	A TR_200 3H	183.99	249.56	255.44	252.73	255.58	0.000523	1.74	119.65	33.57	0.25
foenna_02	27.8	Max WS	A TR_200 4H	183.50	249.56	255.49	252.72	255.63	0.000500	1.72	121.29	33.72	0.25
foenna_02	27.8	Max WS	A TR_200 6H	183.12	249.56	255.51	252.72	255.65	0.000490	1.70	122.01	33.79	0.25
foenna_02	27.8	Max WS	A TR_200 8H	182.81	249.56	255.51	252.72	255.64	0.000489	1.70	121.94	33.78	0.25
foenna_02	27.8	Max WS	A TR_200 12H	182.15	249.56	255.49	252.71	255.63	0.000492	1.70	121.41	33.73	0.25
foenna_02	27.8	Max WS	A TR_30 1H	77.30	249.56	253.64	251.59	253.72	0.000523	1.28	64.29	28.01	0.23
foenna_02	27.8	Max WS	A TR_30 2H	111.68	249.56	254.27	251.99	254.38	0.000544	1.48	82.56	29.94	0.25
foenna_02	27.8	Max WS	A TR_30 3H	128.77	249.56	254.55	252.18	254.67	0.000552	1.56	90.91	30.79	0.25
foenna_02	27.8	Max WS	A TR_30 4H	136.29	249.56	254.67	252.25	254.79	0.000554	1.60	94.56	31.16	0.25
foenna_02	27.8	Max WS	A TR_30 6H	139.31	249.56	254.72	252.28	254.84	0.000553	1.61	96.12	31.32	0.25
foenna_02	27.8	Max WS	A TR_30 8H	139.05	249.56	254.72	252.28	254.84	0.000552	1.61	96.06	31.31	0.25
foenna_02	27.8	Max WS	A TR_30 12H	133.09	249.56	254.63	252.22	254.75	0.000547	1.58	93.36	31.04	0.25
foenna_02	27	Max WS	A TR_200 1H	164.27	249.61	254.82	253.04	255.07	0.001167	2.33	81.94	29.38	0.36
foenna_02	27	Max WS	A TR_200 2H	182.44	249.61	255.12	253.26	255.37	0.001089	2.35	90.94	30.36	0.35
foenna_02	27	Max WS	A TR_200 3H	182.55	249.61	255.23	253.26	255.46	0.000987	2.28	94.36	30.72	0.34
foenna_02	27	Max WS	A TR_200 4H	182.89	249.61	255.29	253.26	255.51	0.000942	2.24	96.15	30.91	0.33
foenna_02	27	Max WS	A TR_200 6H	182.94	249.61	255.31	253.26	255.54	0.000922	2.23	96.94	30.99	0.33
foenna_02	27	Max WS	A TR_200 8H	182.75	249.61	255.31	253.26	255.53	0.000922	2.23	96.88	30.99	0.33
foenna_02	27	Max WS	A TR_200 12H	182.12	249.61	255.30	253.25	255.52	0.000929	2.23	96.34	30.93	0.33
foenna_02	27	Max WS	A TR_30 1H	77.07	249.61	253.43	251.82	253.59	0.001204	1.81	45.48	22.81	0.34
foenna_02	27	Max WS	A TR_30 2H	111.37	249.61	254.04	252.33	254.24	0.001204	2.06	60.22	25.96	0.36
foenna_02	27	Max WS	A TR_30 3H	128.48	249.61	254.31	252.55	254.53	0.001193	2.16	67.47	27.47	0.36
foenna_02	27	Max WS	A TR_30 4H	136.09	249.61	254.43	252.65	254.65	0.001185	2.20	70.73	28.12	0.36
foenna_02	27	Max WS	A TR_30 6H	139.16	249.61	254.48	252.70	254.71	0.001175	2.21	72.15	28.29	0.36
foenna_02	27	Max WS	A TR_30 8H	138.93	249.61	254.48	252.70	254.70	0.001173	2.20	72.11	28.28	0.36
foenna_02	27	Max WS	A TR_30 12H	133.00	249.61	254.39	252.62	254.61	0.001174	2.17	69.72	27.93	0.36
foenna_02	26.9			Lat Struct									
foenna_02	26.8			Lat Struct									
foenna_02	26	Max WS	A TR_200 1H	163.86	249.25	254.60	252.84	254.86	0.001270	2.40	79.50	27.47	0.37
foenna_02	26	Max WS	A TR_200 2H	180.80	249.25	254.92	253.07	255.17	0.001164	2.40	88.35	28.45	0.36
foenna_02	26	Max WS	A TR_200 3H	181.76	249.25	255.05	253.08	255.29	0.001050	2.33	92.16	28.87	0.34
foenna_02	26	Max WS	A TR_200 4H	182.53	249.25	255.12	253.10	255.35	0.001001	2.29	94.10	29.08	0.33
foenna_02	26	Max WS	A TR_200 6H	182.83	249.25	255.15	253.10	255.37	0.000980	2.28	94.95	29.17	0.33

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)	
foenna_02	26	Max WS	A TR_200 8H	182.73	249.25	255.14	253.10	255.37	0.000981	2.28	94.88	29.16	0.33
foenna_02	26	Max WS	A TR_200 12H	182.10	249.25	255.12	253.08	255.35	0.000990	2.28	94.33	29.10	0.33
foenna_02	26	Max WS	A TR_30 1H	76.87	249.25	253.21	251.51	253.38	0.001285	1.86	44.39	23.08	0.35
foenna_02	26	Max WS	A TR_30 2H	111.09	249.25	253.82	252.06	254.03	0.001293	2.12	58.99	25.03	0.36
foenna_02	26	Max WS	A TR_30 3H	128.26	249.25	254.09	252.29	254.32	0.001284	2.22	65.93	25.88	0.36
foenna_02	26	Max WS	A TR_30 4H	135.84	249.25	254.21	252.39	254.45	0.001275	2.25	69.02	26.25	0.36
foenna_02	26	Max WS	A TR_30 6H	139.04	249.25	254.26	252.44	254.50	0.001268	2.27	70.38	26.41	0.36
foenna_02	26	Max WS	A TR_30 8H	138.84	249.25	254.26	252.44	254.50	0.001266	2.27	70.35	26.41	0.36
foenna_02	26	Max WS	A TR_30 12H	132.95	249.25	254.18	252.35	254.41	0.001264	2.23	68.13	26.14	0.36
foenna_02	25	Max WS	A TR_200 1H	163.50	249.17	254.39	252.41	254.60	0.000974	2.14	87.36	28.98	0.33
foenna_02	25	Max WS	A TR_200 2H	179.88	249.17	254.74	252.59	254.94	0.000871	2.13	97.60	30.12	0.32
foenna_02	25	Max WS	A TR_200 3H	181.41	249.17	254.89	252.60	255.08	0.000779	2.06	102.28	30.62	0.30
foenna_02	25	Max WS	A TR_200 4H	182.35	249.17	254.97	252.61	255.15	0.000741	2.03	104.58	30.87	0.29
foenna_02	25	Max WS	A TR_200 6H	182.81	249.17	255.00	252.62	255.18	0.000725	2.01	105.58	30.98	0.29
foenna_02	25	Max WS	A TR_200 8H	182.69	249.17	255.00	252.61	255.18	0.000726	2.01	105.51	30.97	0.29
foenna_02	25	Max WS	A TR_200 12H	182.09	249.17	254.98	252.61	255.16	0.000733	2.02	104.86	30.90	0.29
foenna_02	25	Max WS	A TR_30 1H	76.64	249.17	253.00	251.25	253.13	0.000962	1.63	50.32	23.96	0.31
foenna_02	25	Max WS	A TR_30 2H	110.87	249.17	253.61	251.75	253.78	0.000974	1.87	65.78	26.41	0.32
foenna_02	25	Max WS	A TR_30 3H	128.02	249.17	253.89	251.98	254.07	0.000971	1.96	73.16	27.32	0.32
foenna_02	25	Max WS	A TR_30 4H	135.69	249.17	254.01	252.07	254.19	0.000966	2.00	76.47	27.71	0.32
foenna_02	25	Max WS	A TR_30 6H	138.95	249.17	254.06	252.11	254.25	0.000962	2.01	77.93	27.89	0.32
foenna_02	25	Max WS	A TR_30 8H	138.74	249.17	254.06	252.10	254.25	0.000960	2.01	77.90	27.88	0.32
foenna_02	25	Max WS	A TR_30 12H	132.89	249.17	253.97	252.03	254.16	0.000958	1.98	75.55	27.60	0.32
foenna_02	24.9			Lat Struct									
foenna_02	24.8			Lat Struct									
foenna_02	24	Max WS	A TR_200 1H	163.23	248.96	254.19	252.10	254.42	0.000934	2.18	78.29	26.57	0.33
foenna_02	24	Max WS	A TR_200 2H	179.29	248.96	254.54	252.25	254.78	0.000855	2.19	85.27	27.69	0.32
foenna_02	24	Max WS	A TR_200 3H	181.06	248.96	254.71	252.26	254.93	0.000769	2.13	88.61	28.23	0.31
foenna_02	24	Max WS	A TR_200 4H	182.14	248.96	254.79	252.27	255.01	0.000734	2.11	90.22	28.49	0.30
foenna_02	24	Max WS	A TR_200 6H	182.76	248.96	254.83	252.28	255.04	0.000722	2.10	90.89	28.60	0.30
foenna_02	24	Max WS	A TR_200 8H	182.68	248.96	254.83	252.28	255.04	0.000722	2.10	90.85	28.59	0.30
foenna_02	24	Max WS	A TR_200 12H	182.09	248.96	254.80	252.27	255.02	0.000729	2.10	90.41	28.52	0.30
foenna_02	24	Max WS	A TR_30 1H	76.55	248.96	252.84	250.97	252.96	0.000765	1.54	51.82	22.30	0.28
foenna_02	24	Max WS	A TR_30 2H	110.68	248.96	253.44	251.47	253.60	0.000840	1.82	63.55	24.19	0.31
foenna_02	24	Max WS	A TR_30 3H	127.84	248.96	253.70	251.70	253.89	0.000871	1.94	68.75	25.03	0.32
foenna_02	24	Max WS	A TR_30 4H	135.56	248.96	253.82	251.81	254.01	0.000882	1.99	71.03	25.40	0.32
foenna_02	24	Max WS	A TR_30 6H	138.86	248.96	253.87	251.85	254.07	0.000885	2.01	72.03	25.56	0.32
foenna_02	24	Max WS	A TR_30 8H	138.68	248.96	253.87	251.84	254.07	0.000883	2.01	72.02	25.56	0.32
foenna_02	24	Max WS	A TR_30 12H	132.86	248.96	253.79	251.77	253.98	0.000871	1.97	70.43	25.30	0.32
foenna_02	23.5			Bridge									
foenna_02	23	Max WS	A TR_200 1H	163.01	248.99	254.09	252.25	254.36	0.001083	2.38	74.79	27.55	0.36
foenna_02	23	Max WS	A TR_200 2H	178.91	248.99	254.45	252.39	254.72	0.000978	2.38	81.90	28.76	0.34
foenna_02	23	Max WS	A TR_200 3H	180.90	248.99	254.63	252.41	254.88	0.000875	2.31	85.41	29.36	0.33
foenna_02	23	Max WS	A TR_200 4H	182.07	248.99	254.72	252.42	254.96	0.000834	2.28	87.05	29.64	0.32
foenna_02	23	Max WS	A TR_200 6H	182.75	248.99	254.75	252.42	254.99	0.000819	2.27	87.75	29.76	0.32
foenna_02	23	Max WS	A TR_200 8H	182.67	248.99	254.75	252.43	254.99	0.000819	2.27	87.70	29.75	0.32
foenna_02	23	Max WS	A TR_200 12H	182.08	248.99	254.73	252.42	254.96	0.000827	2.27	87.25	29.67	0.32
foenna_02	23	Max WS	A TR_30 1H	76.45	248.99	252.78	251.06	252.92	0.000879	1.71	48.88	23.05	0.30
foenna_02	23	Max WS	A TR_30 2H	110.59	248.99	253.36	251.56	253.55	0.000970	2.01	60.41	25.11	0.33
foenna_02	23	Max WS	A TR_30 3H	127.77	248.99	253.62	251.82	253.83	0.001008	2.14	65.52	25.98	0.34
foenna_02	23	Max WS	A TR_30 4H	135.48	248.99	253.74	251.92	253.96	0.001020	2.19	67.75	26.36	0.34
foenna_02	23	Max WS	A TR_30 6H	138.79	248.99	253.79	251.96	254.01	0.001023	2.21	68.74	26.53	0.34
foenna_02	23	Max WS	A TR_30 8H	138.64	248.99	253.79	251.96	254.01	0.001022	2.21	68.73	26.52	0.34
foenna_02	23	Max WS	A TR_30 12H	132.83	248.99	253.71	251.88	253.92	0.001007	2.17	67.18	26.26	0.34
foenna_02	22.9			Lat Struct									
foenna_02	22.85			Lat Struct									
foenna_02	22	Max WS	A TR_200 1H	162.63	249.03	253.85	252.34	254.11	0.001275	2.38	79.13	28.24	0.38
foenna_02	22	Max WS	A TR_200 2H	178.45	249.03	254.27	252.48	254.51	0.001033	2.29	91.29	29.60	0.35
foenna_02	22	Max WS	A TR_200 3H	180.83	249.03	254.49	252.50	254.70	0.000881	2.19	97.63	30.28	0.33
foenna_02	22	Max WS	A TR_200 4H	182.05	249.03	254.58	252.51	254.78	0.000823	2.14	100.56	30.59	0.32
foenna_02	22	Max WS	A TR_200 6H	182.73	249.03	254.62	252.52	254.82	0.000802	2.13	101.79	30.72	0.31
foenna_02	22	Max WS	A TR_200 8H	182.66	249.03	254.62	252.52	254.82	0.000804	2.13	101.69	30.71	0.31
foenna_02	22	Max WS	A TR_200 12H	182.07	249.03	254.59	252.52	254.79	0.000815	2.14	100.93	30.63	0.32
foenna_02	22	Max WS	A TR_30 1H	76.24	249.03	252.51	251.22	252.68	0.001403	1.88	44.09	23.91	0.38
foenna_02	22	Max WS	A TR_30 2H	110.28	249.03	253.10	251.73	253.31	0.001336	2.11	58.76	25.81	0.38
foenna_02	22	Max WS	A TR_30 3H	127.49	249.03	253.37	251.98	253.59	0.001307	2.21	65.77	26.67	0.38
foenna_02	22	Max WS	A TR_30 4H	135.26	249.03	253.48	252.08	253.72	0.001292	2.24	68.94	27.05	0.38
foenna_02	22	Max WS	A TR_30 6H	138.67	249.03	253.54	252.12	253.77	0.001282	2.26	70.38	27.22	0.38
foenna_02	22	Max WS	A TR_30 8H	138.53	249.03	253.54	252.12	253.77	0.001279	2.25	70.38	27.22	0.38
foenna_02	22	Max WS	A TR_30 12H	132.76	249.03	253.46	252.05	253.69	0.001282	2.22	68.19	26.96	0.38
foenna_02	21	Max WS	A TR_200 1H	162.54	248.72	253.78	252.14	254.03	0.001179	2.35	81.17	28.24	0.37
foenna_02	21	Max WS	A TR_200 2H	178.41	248.72	254.22	252.28	254.45	0.000957	2.27	93.85	29.90	0.34
foenna_02	21	Max WS	A TR_200 3H	180.78	248.72	254.44	252.30	254.64	0.000816	2.16	100.54	30.74	0.32
foenna_02	21	Max WS	A TR_200 4H	182.04	248.72	254.54	252.32	254.73	0.000762	2.12	103.62	31.12	0.31
foenna_02	21	Max WS	A TR_200 6H	182.74	248.72	254.58	252.32	254.77	0.000743	2.10	104.89	31.27	0.30
foenna_02	21	Max WS	A TR_200 8H	182.66	248.72	254.58	252.32	254.77	0.000744	2.10	104.80	31.26	0.30
foenna_02	21	Max WS	A TR_200 12H	182.08	248.72	254.55	252.31	254.75	0.000755	2.11	103.99	31.16	0.31

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)	
foenna_02	21	Max WS	A TR_30 1H	76.20	248.72	252.44	251.05	252.60	0.001182	1.81	46.66	23.26	0.35
foenna_02	21	Max WS	A TR_30 2H	110.23	248.72	253.03	251.58	253.23	0.001182	2.06	61.03	25.39	0.36
foenna_02	21	Max WS	A TR_30 3H	127.44	248.72	253.30	251.79	253.51	0.001178	2.16	67.94	26.40	0.36
foenna_02	21	Max WS	A TR_30 4H	135.24	248.72	253.42	251.89	253.64	0.001172	2.20	71.08	26.85	0.36
foenna_02	21	Max WS	A TR_30 6H	138.65	248.72	253.47	251.92	253.69	0.001166	2.22	72.52	27.06	0.36
foenna_02	21	Max WS	A TR_30 8H	138.50	248.72	253.47	251.92	253.69	0.001164	2.22	72.52	27.06	0.36
foenna_02	21	Max WS	A TR_30 12H	132.76	248.72	253.39	251.86	253.61	0.001162	2.18	70.35	26.75	0.36
foenna_02	20.7			Lat Struct									
foenna_02	20.5			Lat Struct									
foenna_02	20	Max WS	A TR_200 1H	162.43	248.73	253.73	252.12	253.98	0.001207	2.37	80.25	28.01	0.38
foenna_02	20	Max WS	A TR_200 2H	178.37	248.73	254.17	252.26	254.40	0.000969	2.28	93.17	29.66	0.34
foenna_02	20	Max WS	A TR_200 3H	180.76	248.73	254.40	252.28	254.61	0.000820	2.17	100.03	30.49	0.32
foenna_02	20	Max WS	A TR_200 4H	182.03	248.73	254.50	252.29	254.70	0.000765	2.12	103.17	30.87	0.31
foenna_02	20	Max WS	A TR_200 6H	182.75	248.73	254.55	252.29	254.74	0.000745	2.11	104.47	31.02	0.30
foenna_02	20	Max WS	A TR_200 8H	182.66	248.73	254.54	252.29	254.74	0.000746	2.11	104.37	31.01	0.31
foenna_02	20	Max WS	A TR_200 12H	182.08	248.73	254.52	252.29	254.71	0.000757	2.12	103.55	30.91	0.31
foenna_02	20	Max WS	A TR_30 1H	76.17	248.73	252.38	251.05	252.54	0.001231	1.83	45.93	23.09	0.36
foenna_02	20	Max WS	A TR_30 2H	110.16	248.73	252.97	251.57	253.17	0.001222	2.08	60.21	25.26	0.37
foenna_02	20	Max WS	A TR_30 3H	127.37	248.73	253.24	251.78	253.46	0.001213	2.19	67.09	26.24	0.37
foenna_02	20	Max WS	A TR_30 4H	135.18	248.73	253.36	251.88	253.58	0.001206	2.23	70.22	26.67	0.37
foenna_02	20	Max WS	A TR_30 6H	138.61	248.73	253.41	251.91	253.64	0.001199	2.24	71.65	26.87	0.37
foenna_02	20	Max WS	A TR_30 8H	138.49	248.73	253.41	251.91	253.64	0.001197	2.24	71.66	26.87	0.37
foenna_02	20	Max WS	A TR_30 12H	132.74	248.73	253.33	251.85	253.55	0.001196	2.21	69.51	26.57	0.37
foenna_02	19	Max WS	A TR_200 1H	162.15	248.73	253.54	252.12	253.83	0.001438	2.51	75.19	27.34	0.41
foenna_02	19	Max WS	A TR_200 2H	178.21	248.73	254.03	252.25	254.28	0.001095	2.37	89.00	29.14	0.36
foenna_02	19	Max WS	A TR_200 3H	180.72	248.73	254.29	252.28	254.51	0.000903	2.24	96.53	30.07	0.33
foenna_02	19	Max WS	A TR_200 4H	182.02	248.73	254.40	252.28	254.61	0.000835	2.19	99.89	30.48	0.32
foenna_02	19	Max WS	A TR_200 6H	182.74	248.73	254.44	252.30	254.65	0.000810	2.17	101.27	30.64	0.32
foenna_02	19	Max WS	A TR_200 8H	182.66	248.73	254.44	252.30	254.64	0.000812	2.17	101.17	30.63	0.32
foenna_02	19	Max WS	A TR_200 12H	182.08	248.73	254.41	252.29	254.62	0.000826	2.18	100.30	30.52	0.32
foenna_02	19	Max WS	A TR_30 1H	75.96	248.73	252.19	251.04	252.38	0.001620	2.00	41.49	22.56	0.40
foenna_02	19	Max WS	A TR_30 2H	109.95	248.73	252.78	251.57	253.01	0.001535	2.24	55.35	24.54	0.41
foenna_02	19	Max WS	A TR_30 3H	127.18	248.73	253.05	251.78	253.30	0.001495	2.34	62.12	25.53	0.41
foenna_02	19	Max WS	A TR_30 4H	135.06	248.73	253.17	251.88	253.43	0.001475	2.38	65.21	25.97	0.41
foenna_02	19	Max WS	A TR_30 6H	138.52	248.73	253.22	251.91	253.49	0.001462	2.39	66.64	26.17	0.41
foenna_02	19	Max WS	A TR_30 8H	138.42	248.73	253.22	251.91	253.49	0.001459	2.39	66.65	26.18	0.40
foenna_02	19	Max WS	A TR_30 12H	132.68	248.73	253.14	251.85	253.40	0.001463	2.36	64.56	25.88	0.40
foenna_02	18	Max WS	A TR_200 1H	162.06	248.48	253.47	251.93	253.73	0.001280	2.43	77.73	27.77	0.39
foenna_02	18	Max WS	A TR_200 2H	178.19	248.48	253.98	252.07	254.21	0.000966	2.29	92.50	29.68	0.34
foenna_02	18	Max WS	A TR_200 3H	180.74	248.48	254.24	252.09	254.45	0.000794	2.16	100.48	30.66	0.31
foenna_02	18	Max WS	A TR_200 4H	182.02	248.48	254.36	252.10	254.55	0.000734	2.10	104.04	31.08	0.30
foenna_02	18	Max WS	A TR_200 6H	182.74	248.48	254.41	252.11	254.59	0.000713	2.09	105.47	31.25	0.30
foenna_02	18	Max WS	A TR_200 8H	182.66	248.48	254.40	252.11	254.59	0.000714	2.09	105.37	31.24	0.30
foenna_02	18	Max WS	A TR_200 12H	182.07	248.48	254.37	252.10	254.56	0.000726	2.10	104.46	31.13	0.30
foenna_02	18	Max WS	A TR_30 1H	75.92	248.48	252.10	250.81	252.28	0.001387	1.91	43.20	22.69	0.38
foenna_02	18	Max WS	A TR_30 2H	109.85	248.48	252.70	251.30	252.91	0.001337	2.16	57.47	24.92	0.38
foenna_02	18	Max WS	A TR_30 3H	127.11	248.48	252.97	251.56	253.21	0.001312	2.25	64.42	25.93	0.38
foenna_02	18	Max WS	A TR_30 4H	134.96	248.48	253.09	251.66	253.33	0.001297	2.29	67.61	26.38	0.38
foenna_02	18	Max WS	A TR_30 6H	138.48	248.48	253.15	251.69	253.39	0.001288	2.31	69.07	26.59	0.38
foenna_02	18	Max WS	A TR_30 8H	138.39	248.48	253.15	251.70	253.39	0.001286	2.31	69.09	26.59	0.38
foenna_02	18	Max WS	A TR_30 12H	132.68	248.48	253.07	251.64	253.31	0.001287	2.27	66.95	26.29	0.38
foenna_02	17	Max WS	A TR_200 1H	161.94	248.52	253.39	251.85	253.65	0.001252	2.39	78.35	27.84	0.38
foenna_02	17	Max WS	A TR_200 2H	178.16	248.52	253.92	251.98	254.15	0.000925	2.23	93.84	29.82	0.34
foenna_02	17	Max WS	A TR_200 3H	180.72	248.52	254.20	252.00	254.40	0.000754	2.10	102.21	30.83	0.31
foenna_02	17	Max WS	A TR_200 4H	182.03	248.52	254.32	252.01	254.50	0.000695	2.05	105.89	31.27	0.30
foenna_02	17	Max WS	A TR_200 6H	182.74	248.52	254.37	252.02	254.55	0.000675	2.03	107.37	31.53	0.29
foenna_02	17	Max WS	A TR_200 8H	182.66	248.52	254.36	252.01	254.54	0.000677	2.03	107.26	31.50	0.29
foenna_02	17	Max WS	A TR_200 12H	182.07	248.52	254.33	252.01	254.52	0.000688	2.04	106.33	31.32	0.30
foenna_02	17	Max WS	A TR_30 1H	75.83	248.52	252.01	250.77	252.18	0.001403	1.89	43.39	23.12	0.38
foenna_02	17	Max WS	A TR_30 2H	109.78	248.52	252.61	251.25	252.83	0.001322	2.12	57.93	25.01	0.38
foenna_02	17	Max WS	A TR_30 3H	127.01	248.52	252.89	251.47	253.12	0.001290	2.21	64.96	26.02	0.38
foenna_02	17	Max WS	A TR_30 4H	134.91	248.52	253.01	251.56	253.25	0.001274	2.25	68.18	26.47	0.38
foenna_02	17	Max WS	A TR_30 6H	138.45	248.52	253.07	251.60	253.31	0.001264	2.27	69.67	26.67	0.38
foenna_02	17	Max WS	A TR_30 8H	138.36	248.52	253.07	251.60	253.31	0.001261	2.26	69.69	26.68	0.38
foenna_02	17	Max WS	A TR_30 12H	132.65	248.52	252.99	251.54	253.22	0.001264	2.23	67.54	26.38	0.38
foenna_02	16	Max WS	A TR_200 1H	161.80	248.62	253.29	251.66	253.57	0.001297	2.42	70.62	27.75	0.39
foenna_02	16	Max WS	A TR_200 2H	178.12	248.62	253.83	251.81	254.09	0.000986	2.30	81.65	29.49	0.35
foenna_02	16	Max WS	A TR_200 3H	180.72	248.62	254.12	251.82	254.34	0.000814	2.18	87.43	30.39	0.32
foenna_02	16	Max WS	A TR_200 4H	182.02	248.62	254.24	251.84	254.46	0.000755	2.13	89.90	30.77	0.31
foenna_02	16	Max WS	A TR_200 6H	182.73	248.62	254.29	251.84	254.50	0.000734	2.12	90.88	30.90	0.30
foenna_02	16	Max WS	A TR_200 8H	182.66	248.62	254.28	251.85	254.50	0.000736	2.12	90.80	30.89	0.31
foenna_02	16	Max WS	A TR_200 12H	182.07	248.62	254.25	251.84	254.47	0.000747	2.13	90.19	30.82	0.31
foenna_02	16	Max WS	A TR_30 1H	75.72	248.62	251.93	250.60	252.10	0.001318	1.83	43.07	23.39	0.37
foenna_02	16	Max WS	A TR_30 2H	109.66	248.62	252.53	251.05	252.74	0.001291	2.09	55.26	25.32	0.38
foenna_02	16	Max WS	A TR_30 3H	126.96	248.62	252.80	251.26	253.04	0.001287	2.20	60.74	26.18	0.38
foenna_02	16	Max WS	A TR_30 4H	134.85	248.62	252.92	251.36	253.17	0.001283	2.25	63.17	26.57	0.38
foenna_02	16	Max WS	A TR_30 6H	138.41	248.62	252.97	251.40	253.23	0.001279	2.27	64.29	26.74	0.38
foenna_02	16	Max WS	A TR_30 8H	138.30	248.62	252.98	251.40	253.23	0.001276	2.27	64.31	26.75	0.38
foenna_02	16	Max WS	A TR_30 12H	132.62	248.62	252.90	251.34	253.14	0.001270	2.23	62.72	26.50	0.38

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)	
foenna_02	15.5			Bridge									
foenna_02	15	Max WS	A TR_200 1H	161.68	248.38	253.26	251.58	253.54	0.001330	2.45	70.77	25.98	0.39
foenna_02	15	Max WS	A TR_200 2H	178.03	248.38	253.57	251.74	253.86	0.001231	2.47	77.08	27.07	0.38
foenna_02	15	Max WS	A TR_200 3H	180.65	248.38	253.63	251.77	253.92	0.001205	2.47	78.33	27.29	0.37
foenna_02	15	Max WS	A TR_200 4H	181.99	248.38	253.66	251.78	253.95	0.001197	2.47	78.85	27.38	0.37
foenna_02	15	Max WS	A TR_200 6H	182.73	248.38	253.67	251.79	253.96	0.001197	2.47	79.06	27.41	0.37
foenna_02	15	Max WS	A TR_200 8H	182.65	248.38	253.67	251.78	253.96	0.001197	2.47	79.04	27.41	0.37
foenna_02	15	Max WS	A TR_200 12H	182.07	248.38	253.66	251.78	253.95	0.001195	2.47	78.91	27.39	0.37
foenna_02	15	Max WS	A TR_30 1H	75.69	248.38	251.91	250.46	252.08	0.001271	1.83	43.52	21.28	0.35
foenna_02	15	Max WS	A TR_30 2H	109.59	248.38	252.51	250.92	252.72	0.001290	2.11	55.59	23.36	0.37
foenna_02	15	Max WS	A TR_30 3H	126.89	248.38	252.78	251.13	253.01	0.001300	2.23	61.03	24.30	0.37
foenna_02	15	Max WS	A TR_30 4H	134.81	248.38	252.89	251.23	253.14	0.001301	2.28	63.44	24.72	0.38
foenna_02	15	Max WS	A TR_30 6H	138.38	248.38	252.95	251.30	253.20	0.001299	2.30	64.55	24.91	0.38
foenna_02	15	Max WS	A TR_30 8H	138.29	248.38	252.95	251.28	253.20	0.001296	2.29	64.58	24.91	0.38
foenna_02	15	Max WS	A TR_30 12H	132.61	248.38	252.87	251.21	253.12	0.001287	2.25	62.99	24.64	0.37
foenna_02	14	Max WS	A TR_200 1H	161.41	247.96	253.09	251.51	253.36	0.001268	2.44	77.12	27.08	0.39
foenna_02	14	Max WS	A TR_200 2H	177.82	247.96	253.43	251.65	253.69	0.001120	2.42	86.74	28.37	0.37
foenna_02	14	Max WS	A TR_200 3H	180.56	247.96	253.50	251.67	253.76	0.001088	2.41	88.67	28.62	0.36
foenna_02	14	Max WS	A TR_200 4H	181.96	247.96	253.53	251.68	253.79	0.001078	2.41	89.48	28.73	0.36
foenna_02	14	Max WS	A TR_200 6H	182.73	247.96	253.54	251.69	253.80	0.001078	2.41	89.77	28.77	0.36
foenna_02	14	Max WS	A TR_200 8H	182.66	247.96	253.54	251.69	253.80	0.001078	2.41	89.75	28.76	0.36
foenna_02	14	Max WS	A TR_200 12H	182.07	247.96	253.53	251.69	253.79	0.001077	2.41	89.57	28.74	0.36
foenna_02	14	Max WS	A TR_30 1H	75.51	247.96	251.72	250.36	251.89	0.001312	1.89	43.53	21.98	0.37
foenna_02	14	Max WS	A TR_30 2H	109.38	247.96	252.32	250.87	252.54	0.001294	2.15	57.45	24.23	0.38
foenna_02	14	Max WS	A TR_30 3H	126.66	247.96	252.59	251.14	252.83	0.001281	2.25	64.24	25.25	0.38
foenna_02	14	Max WS	A TR_30 4H	134.64	247.96	252.72	251.23	252.96	0.001272	2.30	67.38	25.71	0.38
foenna_02	14	Max WS	A TR_30 6H	138.25	247.96	252.77	251.27	253.02	0.001264	2.31	68.86	25.92	0.38
foenna_02	14	Max WS	A TR_30 8H	138.23	247.96	252.78	251.27	253.02	0.001262	2.31	68.89	25.92	0.38
foenna_02	14	Max WS	A TR_30 12H	132.58	247.96	252.70	251.21	252.94	0.001261	2.28	66.83	25.63	0.38
foenna_02	13	Max WS	A TR_200 1H	161.05	247.64	252.89	251.26	253.16	0.001254	2.38	77.17	26.82	0.38
foenna_02	13	Max WS	A TR_200 2H	177.62	247.64	253.27	251.42	253.52	0.001084	2.35	87.47	28.09	0.36
foenna_02	13	Max WS	A TR_200 3H	180.48	247.64	253.34	251.44	253.59	0.001050	2.34	89.54	28.33	0.35
foenna_02	13	Max WS	A TR_200 4H	181.91	247.64	253.37	251.46	253.62	0.001040	2.34	90.38	28.43	0.35
foenna_02	13	Max WS	A TR_200 6H	182.73	247.64	253.38	251.46	253.63	0.001040	2.34	90.66	28.47	0.35
foenna_02	13	Max WS	A TR_200 8H	182.65	247.64	253.38	251.46	253.63	0.001040	2.34	90.65	28.47	0.35
foenna_02	13	Max WS	A TR_200 12H	182.07	247.64	253.38	251.46	253.62	0.001039	2.34	90.47	28.44	0.35
foenna_02	13	Max WS	A TR_30 1H	75.27	247.64	251.51	250.07	251.68	0.001319	1.85	43.39	22.16	0.36
foenna_02	13	Max WS	A TR_30 2H	109.11	247.64	252.12	250.57	252.33	0.001288	2.10	57.49	24.21	0.37
foenna_02	13	Max WS	A TR_30 3H	126.43	247.64	252.40	250.81	252.63	0.001271	2.20	64.34	25.15	0.37
foenna_02	13	Max WS	A TR_30 4H	134.45	247.64	252.52	250.91	252.76	0.001260	2.24	67.50	25.57	0.37
foenna_02	13	Max WS	A TR_30 6H	138.15	247.64	252.58	250.98	252.82	0.001253	2.26	68.99	25.77	0.37
foenna_02	13	Max WS	A TR_30 8H	138.15	247.64	252.58	250.98	252.82	0.001251	2.26	69.04	25.77	0.37
foenna_02	13	Max WS	A TR_30 12H	132.52	247.64	252.50	250.88	252.74	0.001250	2.22	66.99	25.50	0.37
foenna_02	12	Max WS	A TR_200 1H	160.81	247.75	252.72	250.67	252.93	0.000920	2.06	83.34	26.42	0.33
foenna_02	12	Max WS	A TR_200 2H	177.47	247.75	253.13	250.83	253.33	0.000787	2.03	94.39	27.68	0.31
foenna_02	12	Max WS	A TR_200 3H	180.45	247.75	253.21	250.86	253.41	0.000764	2.03	96.54	27.92	0.31
foenna_02	12	Max WS	A TR_200 4H	181.87	247.75	253.24	250.87	253.44	0.000757	2.03	97.41	28.01	0.31
foenna_02	12	Max WS	A TR_200 6H	182.73	247.75	253.25	250.88	253.45	0.000758	2.03	97.68	28.04	0.31
foenna_02	12	Max WS	A TR_200 8H	182.65	247.75	253.25	250.88	253.45	0.000758	2.03	97.66	28.04	0.31
foenna_02	12	Max WS	A TR_200 12H	182.07	247.75	253.24	250.88	253.44	0.000756	2.03	97.50	28.02	0.31
foenna_02	12	Max WS	A TR_30 1H	74.97	247.75	251.33	249.69	251.45	0.000914	1.54	49.47	22.10	0.31
foenna_02	12	Max WS	A TR_30 2H	108.86	247.75	251.95	250.13	252.11	0.000905	1.77	63.92	24.04	0.32
foenna_02	12	Max WS	A TR_30 3H	126.27	247.75	252.24	250.32	252.41	0.000905	1.87	70.79	24.90	0.32
foenna_02	12	Max WS	A TR_30 4H	134.32	247.75	252.36	250.41	252.54	0.000903	1.91	73.95	25.29	0.32
foenna_02	12	Max WS	A TR_30 6H	138.05	247.75	252.42	250.45	252.61	0.000901	1.93	75.46	25.48	0.32
foenna_02	12	Max WS	A TR_30 8H	138.06	247.75	252.42	250.45	252.61	0.000899	1.93	75.50	25.48	0.32
foenna_02	12	Max WS	A TR_30 12H	132.50	247.75	252.34	250.39	252.52	0.000895	1.90	73.48	25.23	0.32
foenna_02	11.5			Bridge									
foenna_02	11	Max WS	A TR_200 1H	160.74	247.87	252.71	250.63	252.91	0.000877	2.00	84.90	26.72	0.32
foenna_02	11	Max WS	A TR_200 2H	177.44	247.87	253.12	250.78	253.31	0.000750	1.98	96.12	28.02	0.30
foenna_02	11	Max WS	A TR_200 3H	180.41	247.87	253.20	250.81	253.39	0.000727	1.97	98.31	28.27	0.30
foenna_02	11	Max WS	A TR_200 4H	181.89	247.87	253.23	250.82	253.42	0.000721	1.97	99.18	28.36	0.30
foenna_02	11	Max WS	A TR_200 6H	182.73	247.87	253.24	250.83	253.43	0.000722	1.98	99.46	28.40	0.30
foenna_02	11	Max WS	A TR_200 8H	182.65	247.87	253.24	250.83	253.43	0.000721	1.98	99.44	28.39	0.30
foenna_02	11	Max WS	A TR_200 12H	182.07	247.87	253.23	250.82	253.42	0.000720	1.97	99.29	28.38	0.30
foenna_02	11	Max WS	A TR_30 1H	74.95	247.87	251.31	249.69	251.43	0.000880	1.49	50.75	22.28	0.30
foenna_02	11	Max WS	A TR_30 2H	108.86	247.87	251.94	250.10	252.09	0.000864	1.72	65.37	24.28	0.31
foenna_02	11	Max WS	A TR_30 3H	126.20	247.87	252.22	250.29	252.39	0.000863	1.82	72.29	25.17	0.31
foenna_02	11	Max WS	A TR_30 4H	134.30	247.87	252.35	250.38	252.52	0.000861	1.86	75.47	25.57	0.32
foenna_02	11	Max WS	A TR_30 6H	138.05	247.87	252.41	250.41	252.58	0.000859	1.88	76.99	25.76	0.32
foenna_02	11	Max WS	A TR_30 8H	138.08	247.87	252.41	250.41	252.58	0.000858	1.88	77.03	25.76	0.32
foenna_02	11	Max WS	A TR_30 12H	132.47	247.87	252.33	250.36	252.50	0.000854	1.85	75.00	25.51	0.31
foenna_02	10	Max WS	A TR_200 1H	160.24	247.31	252.37	250.61	252.64	0.001146	2.43	72.66	27.25	0.37
foenna_02	10	Max WS	A TR_200 2H	177.24	247.31	252.82	250.76	253.08	0.000977	2.40	81.28	28.81	0.35
foenna_02	10	Max WS	A TR_200 3H	180.36	247.31	252.90	250.78	253.16	0.000948	2.39	82.93	29.11	0.34
foenna_02	10	Max WS	A TR_200 4H	181.85	247.31	252.94	250.79	253.19	0.000941	2.39	83.56	29.22	0.34
foenna_02	10	Max WS	A TR_200 6H	182.72	247.31	252.94	250.80	253.20	0.000944	2.40	83.72	29.25	0.34
foenna_02	10	Max WS	A TR_200 8H	182.65	247.31	252.94	250.79	253.20	0.000944	2.40	83.71	29.25	0.34
foenna_02	10	Max WS	A TR_200 12H	182.07	247.31	252.94	250.79	253.20	0.000941	2.39	83.62	29.23	0.34
foenna_02	10	Max WS	A TR_30 1H	74.56	247.31	251.01	249.62	251.15	0.001014	1.79	46.47	22.51	0.33

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)	
foenna_02	10	Max WS	A TR_30 2H	108.41	247.31	251.62	250.10	251.82	0.001057	2.06	58.31	24.65	0.35
foenna_02	10	Max WS	A TR_30 3H	125.85	247.31	251.89	250.28	252.11	0.001086	2.19	63.54	25.60	0.35
foenna_02	10	Max WS	A TR_30 4H	134.04	247.31	252.02	250.37	252.25	0.001098	2.25	65.88	26.02	0.36
foenna_02	10	Max WS	A TR_30 6H	137.89	247.31	252.07	250.41	252.31	0.001101	2.28	66.99	26.23	0.36
foenna_02	10	Max WS	A TR_30 8H	137.93	247.31	252.08	250.41	252.31	0.001099	2.28	67.03	26.23	0.36
foenna_02	10	Max WS	A TR_30 12H	132.40	247.31	252.00	250.36	252.23	0.001086	2.23	65.58	25.97	0.36
foenna_02	9.5			Bridge									
foenna_02	09	Max WS	A TR_200 1H	160.17	247.29	252.32	250.58	252.59	0.001185	2.43	72.11	27.04	0.37
foenna_02	09	Max WS	A TR_200 2H	177.21	247.29	252.77	250.73	253.03	0.001008	2.39	80.73	28.58	0.35
foenna_02	09	Max WS	A TR_200 3H	180.32	247.29	252.85	250.75	253.11	0.000978	2.39	82.37	28.87	0.34
foenna_02	09	Max WS	A TR_200 4H	181.83	247.29	252.89	250.76	253.15	0.000971	2.39	82.99	28.98	0.34
foenna_02	09	Max WS	A TR_200 6H	182.72	247.29	252.90	250.77	253.16	0.000975	2.39	83.15	29.01	0.34
foenna_02	09	Max WS	A TR_200 8H	182.65	247.29	252.89	250.77	253.16	0.000974	2.39	83.13	29.01	0.34
foenna_02	09	Max WS	A TR_200 12H	182.07	247.29	252.89	250.76	253.15	0.000971	2.39	83.05	28.99	0.34
foenna_02	09	Max WS	A TR_30 1H	74.50	247.29	250.98	249.51	251.13	0.001026	1.77	46.36	22.45	0.32
foenna_02	09	Max WS	A TR_30 2H	108.36	247.29	251.59	250.06	251.78	0.001078	2.05	58.09	24.54	0.34
foenna_02	09	Max WS	A TR_30 3H	125.82	247.29	251.86	250.26	252.08	0.001111	2.19	63.24	25.46	0.35
foenna_02	09	Max WS	A TR_30 4H	134.00	247.29	251.98	250.34	252.21	0.001126	2.25	65.53	25.87	0.36
foenna_02	09	Max WS	A TR_30 6H	137.86	247.29	252.03	250.38	252.27	0.001131	2.27	66.62	26.06	0.36
foenna_02	09	Max WS	A TR_30 8H	137.89	247.29	252.04	250.38	252.27	0.001129	2.27	66.66	26.07	0.36
foenna_02	09	Max WS	A TR_30 12H	132.39	247.29	251.96	250.32	252.19	0.001114	2.23	65.24	25.82	0.35
foenna_02	08	Max WS	A TR_200 1H	159.83	246.83	252.10	250.39	252.35	0.001143	2.34	79.51	27.17	0.36
foenna_02	08	Max WS	A TR_200 2H	177.19	246.83	252.62	250.56	252.84	0.000893	2.24	94.05	28.98	0.33
foenna_02	08	Max WS	A TR_200 3H	180.32	246.83	252.71	250.58	252.93	0.000855	2.22	96.82	29.31	0.32
foenna_02	08	Max WS	A TR_200 4H	181.83	246.83	252.75	250.60	252.96	0.000845	2.21	97.86	29.44	0.32
foenna_02	08	Max WS	A TR_200 6H	182.72	246.83	252.75	250.60	252.97	0.000848	2.22	98.08	29.46	0.32
foenna_02	08	Max WS	A TR_200 8H	182.65	246.83	252.75	250.61	252.97	0.000847	2.22	98.07	29.46	0.32
foenna_02	08	Max WS	A TR_200 12H	182.07	246.83	252.75	250.60	252.97	0.000845	2.21	97.95	29.45	0.32
foenna_02	08	Max WS	A TR_30 1H	74.16	246.83	250.75	249.22	250.90	0.001079	1.76	45.99	22.60	0.33
foenna_02	08	Max WS	A TR_30 2H	108.01	246.83	251.36	249.69	251.55	0.001095	2.02	60.46	24.61	0.34
foenna_02	08	Max WS	A TR_30 3H	125.55	246.83	251.63	249.91	251.84	0.001110	2.14	67.25	25.55	0.35
foenna_02	08	Max WS	A TR_30 4H	133.82	246.83	251.75	250.06	251.97	0.001115	2.19	70.36	25.97	0.35
foenna_02	08	Max WS	A TR_30 6H	137.72	246.83	251.81	250.13	252.04	0.001115	2.21	71.87	26.18	0.35
foenna_02	08	Max WS	A TR_30 8H	137.81	246.83	251.82	250.12	252.04	0.001114	2.21	71.94	26.18	0.35
foenna_02	08	Max WS	A TR_30 12H	132.33	246.83	251.74	250.04	251.96	0.001106	2.17	70.00	25.92	0.35
foenna_02	07	Max WS	A TR_200 1H	159.44	246.77	251.83	250.19	252.08	0.001172	2.35	79.11	27.83	0.37
foenna_02	07	Max WS	A TR_200 2H	177.17	246.77	252.43	250.35	252.64	0.000851	2.19	96.20	29.74	0.32
foenna_02	07	Max WS	A TR_200 3H	180.31	246.77	252.53	250.38	252.74	0.000808	2.16	99.35	30.06	0.31
foenna_02	07	Max WS	A TR_200 4H	181.82	246.77	252.57	250.40	252.78	0.000796	2.16	100.49	30.18	0.31
foenna_02	07	Max WS	A TR_200 6H	182.72	246.77	252.58	250.41	252.78	0.000799	2.17	100.71	30.20	0.31
foenna_02	07	Max WS	A TR_200 8H	182.65	246.77	252.58	250.40	252.78	0.000799	2.17	100.70	30.20	0.31
foenna_02	07	Max WS	A TR_200 12H	182.07	246.77	252.57	250.40	252.78	0.000796	2.16	100.59	30.19	0.31
foenna_02	07	Max WS	A TR_30 1H	73.78	246.77	250.49	248.99	250.64	0.001148	1.79	44.96	22.90	0.34
foenna_02	07	Max WS	A TR_30 2H	107.62	246.77	251.10	249.49	251.30	0.001141	2.03	59.69	25.18	0.35
foenna_02	07	Max WS	A TR_30 3H	125.22	246.77	251.37	249.74	251.59	0.001150	2.15	66.63	26.26	0.36
foenna_02	07	Max WS	A TR_30 4H	133.56	246.77	251.49	249.85	251.72	0.001154	2.20	69.80	26.67	0.36
foenna_02	07	Max WS	A TR_30 6H	137.60	246.77	251.55	249.92	251.78	0.001154	2.22	71.36	26.87	0.36
foenna_02	07	Max WS	A TR_30 8H	137.71	246.77	251.55	249.92	251.78	0.001152	2.22	71.44	26.87	0.36
foenna_02	07	Max WS	A TR_30 12H	132.25	246.77	251.48	249.83	251.70	0.001145	2.19	69.48	26.62	0.36
foenna_02	6.9			Lat Struct									
foenna_02	6.8			Lat Struct									
foenna_02	06	Max WS	A TR_200 1H	159.21	246.39	251.70	250.01	251.95	0.001182	2.33	79.29	28.48	0.37
foenna_02	06	Max WS	A TR_200 2H	177.17	246.39	252.34	250.20	252.54	0.000824	2.15	98.16	30.62	0.31
foenna_02	06	Max WS	A TR_200 3H	180.30	246.39	252.45	250.23	252.64	0.000778	2.12	101.59	30.99	0.31
foenna_02	06	Max WS	A TR_200 4H	181.82	246.39	252.49	250.24	252.68	0.000766	2.11	102.82	31.13	0.30
foenna_02	06	Max WS	A TR_200 6H	182.71	246.39	252.49	250.25	252.69	0.000769	2.12	103.02	31.15	0.30
foenna_02	06	Max WS	A TR_200 8H	182.65	246.39	252.49	250.25	252.69	0.000769	2.12	103.01	31.15	0.30
foenna_02	06	Max WS	A TR_200 12H	182.07	246.39	252.49	250.25	252.69	0.000766	2.11	102.91	31.13	0.30
foenna_02	06	Max WS	A TR_30 1H	73.59	246.39	250.35	248.79	250.51	0.001152	1.77	44.67	22.80	0.34
foenna_02	06	Max WS	A TR_30 2H	107.40	246.39	250.97	249.30	251.16	0.001153	2.03	59.50	25.61	0.35
foenna_02	06	Max WS	A TR_30 3H	125.07	246.39	251.24	249.54	251.45	0.001164	2.14	66.54	26.80	0.36
foenna_02	06	Max WS	A TR_30 4H	133.43	246.39	251.36	249.65	251.58	0.001168	2.19	69.78	27.29	0.36
foenna_02	06	Max WS	A TR_30 6H	137.51	246.39	251.41	249.70	251.64	0.001168	2.21	71.38	27.52	0.36
foenna_02	06	Max WS	A TR_30 8H	137.65	246.39	251.42	249.71	251.64	0.001167	2.21	71.45	27.53	0.36
foenna_02	06	Max WS	A TR_30 12H	132.23	246.39	251.35	249.63	251.57	0.001161	2.18	69.46	27.24	0.36
foenna_02	05	Max WS	A TR_200 1H	158.99	246.18	251.49	249.71	251.76	0.001209	2.40	71.62	27.65	0.37
foenna_02	05	Max WS	A TR_200 2H	177.17	246.18	252.17	249.93	252.41	0.000862	2.24	85.41	30.68	0.32
foenna_02	05	Max WS	A TR_200 3H	180.30	246.18	252.29	249.96	252.52	0.000819	2.22	87.76	31.34	0.31
foenna_02	05	Max WS	A TR_200 4H	181.82	246.18	252.33	249.97	252.56	0.000808	2.22	88.58	31.57	0.31
foenna_02	05	Max WS	A TR_200 6H	182.71	246.18	252.34	249.98	252.57	0.000813	2.22	88.69	31.60	0.31
foenna_02	05	Max WS	A TR_200 8H	182.65	246.18	252.34	249.98	252.57	0.000813	2.22	88.68	31.60	0.31
foenna_02	05	Max WS	A TR_200 12H	182.07	246.18	252.33	249.97	252.56	0.000809	2.22	88.63	31.58	0.31
foenna_02	05	Max WS	A TR_30 1H	73.30	246.18	250.19	248.49	250.34	0.001010	1.72	45.41	22.37	0.32
foenna_02	05	Max WS	A TR_30 2H	107.15	246.18	250.79	249.00	250.99	0.001075	2.01	57.57	24.90	0.34
foenna_02	05	Max WS	A TR_30 3H	124.85	246.18	251.05	249.25	251.27	0.001123	2.15	62.75	25.91	0.35
foenna_02	05	Max WS	A TR_30 4H	133.27	246.18	251.16	249.36	251.40	0.001146	2.22	65.05	26.36	0.36
foenna_02	05	Max WS	A TR_30 6H	137.40	246.18	251.22	249.42	251.46	0.001156	2.25	66.16	26.58	0.36
foenna_02	05	Max WS	A TR_30 8H	137.56	246.18	251.22	249.42	251.46	0.001155	2.25	66.22	26.59	0.36
foenna_02	05	Max WS	A TR_30 12H	132.16	246.18	251.15	249.35	251.38	0.001138	2.21	64.84	26.32	0.36

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)	
foenna_02	4.5			Bridge									
foenna_02	04	Max WS	A TR_200 1H	158.97	246.26	251.48	249.55	251.74	0.001142	2.33	73.15	28.68	0.36
foenna_02	04	Max WS	A TR_200 2H	177.10	246.26	251.68	249.80	251.97	0.001197	2.46	77.19	29.39	0.37
foenna_02	04	Max WS	A TR_200 3H	180.23	246.26	251.72	249.84	252.01	0.001205	2.48	77.87	29.51	0.37
foenna_02	04	Max WS	A TR_200 4H	181.78	246.26	251.73	249.85	252.03	0.001210	2.49	78.20	29.57	0.37
foenna_02	04	Max WS	A TR_200 6H	182.69	246.26	251.74	249.86	252.04	0.001212	2.50	78.40	29.60	0.37
foenna_02	04	Max WS	A TR_200 8H	182.64	246.26	251.74	249.86	252.04	0.001212	2.50	78.39	29.60	0.37
foenna_02	04	Max WS	A TR_200 12H	182.07	246.26	251.74	249.86	252.03	0.001210	2.49	78.27	29.58	0.37
foenna_02	04	Max WS	A TR_30 1H	73.30	246.26	250.20	248.38	250.33	0.000910	1.64	47.21	23.34	0.30
foenna_02	04	Max WS	A TR_30 2H	107.12	246.26	250.79	248.89	250.98	0.000991	1.93	59.28	26.19	0.33
foenna_02	04	Max WS	A TR_30 3H	124.83	246.26	251.05	249.13	251.26	0.001044	2.08	64.42	27.16	0.34
foenna_02	04	Max WS	A TR_30 4H	133.27	246.26	251.16	249.24	251.38	0.001069	2.14	66.71	27.56	0.34
foenna_02	04	Max WS	A TR_30 6H	137.38	246.26	251.22	249.29	251.44	0.001079	2.17	67.81	27.75	0.35
foenna_02	04	Max WS	A TR_30 8H	137.55	246.26	251.22	249.29	251.45	0.001079	2.17	67.87	27.76	0.35
foenna_02	04	Max WS	A TR_30 12H	132.16	246.26	251.15	249.22	251.37	0.001061	2.13	66.50	27.52	0.34
foenna_02	3.9			Lat Struct									
foenna_02	3.8			Lat Struct									
foenna_02	03	Max WS	A TR_200 1H	158.80	246.00	251.34	249.50	251.58	0.001194	2.28	78.46	28.33	0.37
foenna_02	03	Max WS	A TR_200 2H	177.08	246.00	251.54	249.71	251.81	0.001218	2.39	84.40	28.96	0.37
foenna_02	03	Max WS	A TR_200 3H	180.22	246.00	251.58	249.74	251.85	0.001221	2.40	85.41	29.06	0.37
foenna_02	03	Max WS	A TR_200 4H	181.77	246.00	251.60	249.77	251.87	0.001223	2.41	85.91	29.11	0.37
foenna_02	03	Max WS	A TR_200 6H	182.69	246.00	251.61	249.80	251.88	0.001224	2.42	86.20	29.14	0.37
foenna_02	03	Max WS	A TR_200 8H	182.64	246.00	251.61	249.79	251.88	0.001224	2.42	86.19	29.14	0.37
foenna_02	03	Max WS	A TR_200 12H	182.07	246.00	251.60	249.78	251.87	0.001223	2.41	86.02	29.12	0.37
foenna_02	03	Max WS	A TR_30 1H	73.09	246.00	250.04	248.36	250.19	0.001117	1.70	44.71	23.56	0.33
foenna_02	03	Max WS	A TR_30 2H	106.89	246.00	250.64	248.86	250.83	0.001130	1.95	59.56	25.93	0.34
foenna_02	03	Max WS	A TR_30 3H	124.65	246.00	250.90	249.09	251.11	0.001154	2.08	66.34	26.93	0.35
foenna_02	03	Max WS	A TR_30 4H	133.13	246.00	251.01	249.20	251.23	0.001165	2.13	69.45	27.36	0.36
foenna_02	03	Max WS	A TR_30 6H	137.31	246.00	251.07	249.25	251.29	0.001169	2.16	70.98	27.52	0.36
foenna_02	03	Max WS	A TR_30 8H	137.49	246.00	251.07	249.25	251.29	0.001169	2.16	71.06	27.53	0.36
foenna_02	03	Max WS	A TR_30 12H	132.10	246.00	251.00	249.19	251.22	0.001160	2.12	69.18	27.33	0.36
foenna_02	02	Max WS	A TR_200 1H	158.56	245.93	251.16	249.49	251.43	0.001382	2.40	73.82	26.77	0.39
foenna_02	02	Max WS	A TR_200 2H	177.02	245.93	251.35	249.74	251.65	0.001427	2.52	79.08	27.43	0.40
foenna_02	02	Max WS	A TR_200 3H	180.18	245.93	251.39	249.77	251.69	0.001433	2.54	80.00	27.54	0.40
foenna_02	02	Max WS	A TR_200 4H	181.74	245.93	251.40	249.79	251.71	0.001435	2.55	80.46	27.60	0.40
foenna_02	02	Max WS	A TR_200 6H	182.67	245.93	251.41	249.80	251.72	0.001437	2.56	80.73	27.63	0.40
foenna_02	02	Max WS	A TR_200 8H	182.63	245.93	251.41	249.81	251.72	0.001437	2.55	80.72	27.63	0.40
foenna_02	02	Max WS	A TR_200 12H	182.06	245.93	251.41	249.80	251.71	0.001436	2.55	80.55	27.61	0.40
foenna_02	02	Max WS	A TR_30 1H	72.89	245.93	249.88	248.32	250.04	0.001311	1.78	42.32	22.29	0.36
foenna_02	02	Max WS	A TR_30 2H	106.61	245.93	250.48	248.84	250.68	0.001303	2.05	56.38	24.45	0.37
foenna_02	02	Max WS	A TR_30 3H	124.42	245.93	250.73	249.07	250.96	0.001335	2.18	62.59	25.30	0.38
foenna_02	02	Max WS	A TR_30 4H	132.92	245.93	250.84	249.18	251.08	0.001350	2.24	65.43	25.68	0.38
foenna_02	02	Max WS	A TR_30 6H	137.14	245.93	250.89	249.23	251.14	0.001357	2.27	66.82	25.86	0.38
foenna_02	02	Max WS	A TR_30 8H	137.38	245.93	250.90	249.23	251.14	0.001357	2.27	66.90	25.87	0.38
foenna_02	02	Max WS	A TR_30 12H	132.05	245.93	250.83	249.17	251.07	0.001346	2.23	65.19	25.65	0.38
foenna_02	01	Max WS	A TR_200 1H	158.55	245.87	251.16	248.52	251.27	0.000463	1.47	116.81	40.02	0.23
foenna_02	01	Max WS	A TR_200 2H	177.05	245.87	251.39	248.67	251.50	0.000471	1.54	125.89	40.82	0.24
foenna_02	01	Max WS	A TR_200 3H	180.20	245.87	251.42	248.70	251.54	0.000473	1.55	127.32	40.94	0.24
foenna_02	01	Max WS	A TR_200 4H	181.74	245.87	251.44	248.72	251.56	0.000474	1.56	128.03	41.00	0.24
foenna_02	01	Max WS	A TR_200 6H	182.67	245.87	251.45	248.72	251.57	0.000474	1.56	128.46	41.04	0.24
foenna_02	01	Max WS	A TR_200 8H	182.63	245.87	251.45	248.72	251.57	0.000474	1.56	128.45	41.04	0.24
foenna_02	01	Max WS	A TR_200 12H	182.06	245.87	251.44	248.72	251.56	0.000474	1.56	128.18	41.01	0.24
foenna_02	01	Max WS	A TR_30 1H	72.82	245.87	249.86	247.58	249.91	0.000396	1.05	69.66	28.44	0.20
foenna_02	01	Max WS	A TR_30 2H	106.65	245.87	250.48	247.99	250.56	0.000417	1.24	90.28	37.59	0.22
foenna_02	01	Max WS	A TR_30 3H	124.44	245.87	250.74	248.19	250.82	0.000433	1.32	100.10	38.51	0.22
foenna_02	01	Max WS	A TR_30 4H	132.94	245.87	250.85	248.27	250.95	0.000439	1.36	104.58	38.92	0.23
foenna_02	01	Max WS	A TR_30 6H	137.18	245.87	250.91	248.32	251.00	0.000442	1.38	106.75	39.11	0.23
foenna_02	01	Max WS	A TR_30 8H	137.39	245.87	250.91	248.32	251.01	0.000442	1.38	106.87	39.13	0.23
foenna_02	01	Max WS	A TR_30 12H	132.06	245.87	250.84	248.26	250.93	0.000438	1.36	104.17	38.88	0.22
foenna_02	0.99			Lat Struct									
foenna_02	0.98			Lat Struct									
foenna_02	.96	Max WS	A TR_200 1H	158.52	245.79	251.13	248.64	251.25	0.000532	1.57	110.52	39.06	0.25
foenna_02	.96	Max WS	A TR_200 2H	177.05	245.79	251.36	248.81	251.49	0.000540	1.64	119.32	39.93	0.26
foenna_02	.96	Max WS	A TR_200 3H	180.20	245.79	251.39	248.83	251.52	0.000542	1.65	120.72	40.06	0.26
foenna_02	.96	Max WS	A TR_200 4H	181.74	245.79	251.41	248.85	251.54	0.000543	1.65	121.40	40.13	0.26
foenna_02	.96	Max WS	A TR_200 6H	182.67	245.79	251.42	248.85	251.55	0.000543	1.66	121.82	40.17	0.26
foenna_02	.96	Max WS	A TR_200 8H	182.63	245.79	251.42	248.86	251.55	0.000543	1.66	121.79	40.17	0.26
foenna_02	.96	Max WS	A TR_200 12H	182.06	245.79	251.41	248.85	251.54	0.000543	1.66	121.55	40.14	0.26
foenna_02	.96	Max WS	A TR_30 1H	72.82	245.79	249.83	247.72	249.90	0.000468	1.13	64.97	27.45	0.22
foenna_02	.96	Max WS	A TR_30 2H	106.63	245.79	250.45	248.13	250.54	0.000486	1.32	84.82	36.42	0.23
foenna_02	.96	Max WS	A TR_30 3H	124.39	245.79	250.71	248.32	250.81	0.000501	1.41	94.30	37.42	0.24
foenna_02	.96	Max WS	A TR_30 4H	132.93	245.79	250.82	248.41	250.93	0.000508	1.45	98.62	37.86	0.24
foenna_02	.96	Max WS	A TR_30 6H	137.17	245.79	250.88	248.45	250.99	0.000511	1.47	100.73	38.08	0.24
foenna_02	.96	Max WS	A TR_30 8H	137.38	245.79	250.88	248.45	250.99	0.000511	1.47	100.85	38.09	0.24
foenna_02	.96	Max WS	A TR_30 12H	132.04	245.79	250.81	248.40	250.92	0.000507	1.45	98.24	37.83	0.24
foenna_02	0.8	Max WS	A TR_200 1H	158.46	245.47	250.98	248.84	251.16	0.000860	1.94	91.91	36.81	0.31

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)	
foenna_02	0.8	Max WS	A TR_200 2H	177.03	245.47	251.20	249.02	251.39	0.000867	2.02	99.86	37.43	0.32
foenna_02	0.8	Max WS	A TR_200 3H	180.19	245.47	251.23	249.05	251.43	0.000869	2.03	101.15	37.53	0.32
foenna_02	0.8	Max WS	A TR_200 4H	181.74	245.47	251.25	249.06	251.45	0.000870	2.04	101.78	37.58	0.32
foenna_02	0.8	Max WS	A TR_200 6H	182.68	245.47	251.26	249.07	251.46	0.000870	2.04	102.17	37.61	0.32
foenna_02	0.8	Max WS	A TR_200 8H	182.63	245.47	251.26	249.07	251.46	0.000870	2.04	102.16	37.61	0.32
foenna_02	0.8	Max WS	A TR_200 12H	182.06	245.47	251.25	249.06	251.45	0.000870	2.04	101.92	37.59	0.32
foenna_02	0.8	Max WS	A TR_30 1H	72.75	245.47	249.71	247.82	249.81	0.000758	1.42	52.14	23.09	0.28
foenna_02	0.8	Max WS	A TR_30 2H	106.52	245.47	250.31	248.26	250.45	0.000802	1.66	68.56	31.71	0.29
foenna_02	0.8	Max WS	A TR_30 3H	124.33	245.47	250.56	248.49	250.72	0.000826	1.76	76.81	34.27	0.30
foenna_02	0.8	Max WS	A TR_30 4H	132.86	245.47	250.68	248.58	250.84	0.000835	1.81	80.72	35.42	0.30
foenna_02	0.8	Max WS	A TR_30 6H	137.11	245.47	250.73	248.62	250.89	0.000840	1.84	82.64	35.97	0.31
foenna_02	0.8	Max WS	A TR_30 8H	137.34	245.47	250.73	248.63	250.90	0.000840	1.84	82.75	36.00	0.31
foenna_02	0.8	Max WS	A TR_30 12H	132.01	245.47	250.67	248.57	250.83	0.000833	1.81	80.36	35.31	0.30
foenna_02	0.6	Max WS	A TR_200 1H	158.37	245.14	250.82	248.78	251.01	0.000953	2.00	91.34	36.55	0.32
foenna_02	0.6	Max WS	A TR_200 2H	177.02	245.14	251.03	248.97	251.23	0.000958	2.07	99.19	37.23	0.33
foenna_02	0.6	Max WS	A TR_200 3H	180.18	245.14	251.07	249.01	251.27	0.000960	2.09	100.46	37.33	0.33
foenna_02	0.6	Max WS	A TR_200 4H	181.73	245.14	251.09	249.02	251.29	0.000960	2.09	101.09	37.39	0.33
foenna_02	0.6	Max WS	A TR_200 6H	182.67	245.14	251.10	249.03	251.30	0.000961	2.10	101.46	37.42	0.33
foenna_02	0.6	Max WS	A TR_200 8H	182.63	245.14	251.10	249.03	251.30	0.000961	2.10	101.45	37.42	0.33
foenna_02	0.6	Max WS	A TR_200 12H	182.06	245.14	251.09	249.03	251.29	0.000960	2.09	101.22	37.40	0.33
foenna_02	0.6	Max WS	A TR_30 1H	72.69	245.14	249.55	247.64	249.67	0.000909	1.50	49.29	24.39	0.29
foenna_02	0.6	Max WS	A TR_30 2H	106.43	245.14	250.16	248.15	250.30	0.000914	1.73	67.69	34.06	0.31
foenna_02	0.6	Max WS	A TR_30 3H	124.24	245.14	250.40	248.38	250.57	0.000928	1.83	76.35	35.24	0.31
foenna_02	0.6	Max WS	A TR_30 4H	132.80	245.14	250.52	248.49	250.68	0.000934	1.87	80.29	35.59	0.31
foenna_02	0.6	Max WS	A TR_30 6H	137.07	245.14	250.57	248.54	250.74	0.000937	1.89	82.22	35.76	0.32
foenna_02	0.6	Max WS	A TR_30 8H	137.30	245.14	250.57	248.54	250.74	0.000937	1.90	82.32	35.77	0.32
foenna_02	0.6	Max WS	A TR_30 12H	132.00	245.14	250.51	248.48	250.67	0.000934	1.87	79.93	35.56	0.31
foenna_02	0.4	Max WS	A TR_200 1H	158.36	245.01	250.64	248.81	250.83	0.001018	2.01	91.04	36.34	0.33
foenna_02	0.4	Max WS	A TR_200 2H	177.02	245.01	250.85	249.01	251.05	0.001017	2.08	98.84	37.03	0.33
foenna_02	0.4	Max WS	A TR_200 3H	180.17	245.01	250.89	249.04	251.09	0.001018	2.10	100.09	37.14	0.33
foenna_02	0.4	Max WS	A TR_200 4H	181.73	245.01	250.90	249.06	251.10	0.001018	2.10	100.70	37.20	0.34
foenna_02	0.4	Max WS	A TR_200 6H	182.67	245.01	250.91	249.07	251.11	0.001019	2.11	101.08	37.23	0.34
foenna_02	0.4	Max WS	A TR_200 8H	182.63	245.01	250.91	249.07	251.11	0.001018	2.11	101.07	37.23	0.34
foenna_02	0.4	Max WS	A TR_200 12H	182.06	245.01	250.91	249.06	251.11	0.001018	2.10	100.84	37.21	0.34
foenna_02	0.4	Max WS	A TR_30 1H	72.66	245.01	249.36	247.59	249.49	0.001071	1.57	48.38	24.61	0.32
foenna_02	0.4	Max WS	A TR_30 2H	106.39	245.01	249.98	248.19	250.13	0.001006	1.76	67.67	34.19	0.32
foenna_02	0.4	Max WS	A TR_30 3H	124.23	245.01	250.23	248.43	250.39	0.001006	1.85	76.27	35.00	0.32
foenna_02	0.4	Max WS	A TR_30 4H	132.78	245.01	250.34	248.52	250.50	0.001007	1.89	80.16	35.36	0.32
foenna_02	0.4	Max WS	A TR_30 6H	137.06	245.01	250.39	248.58	250.56	0.001008	1.91	82.06	35.53	0.33
foenna_02	0.4	Max WS	A TR_30 8H	137.29	245.01	250.39	248.58	250.56	0.001008	1.91	82.16	35.54	0.33
foenna_02	0.4	Max WS	A TR_30 12H	131.98	245.01	250.33	248.52	250.49	0.001007	1.89	79.80	35.33	0.32
foenna_02	0.2	Max WS	A TR_200 1H	158.34	244.76	250.40	248.80	250.63	0.001200	2.36	87.00	36.73	0.35
foenna_02	0.2	Max WS	A TR_200 2H	177.01	244.76	250.61	249.01	250.85	0.001200	2.43	94.79	37.34	0.36
foenna_02	0.2	Max WS	A TR_200 3H	180.17	244.76	250.65	249.01	250.89	0.001200	2.44	96.07	37.44	0.36
foenna_02	0.2	Max WS	A TR_200 4H	181.73	244.76	250.67	249.01	250.90	0.001201	2.45	96.70	37.49	0.36
foenna_02	0.2	Max WS	A TR_200 6H	182.66	244.76	250.68	249.01	250.92	0.001201	2.45	97.07	37.52	0.36
foenna_02	0.2	Max WS	A TR_200 8H	182.63	244.76	250.68	249.01	250.91	0.001200	2.45	97.06	37.52	0.36
foenna_02	0.2	Max WS	A TR_200 12H	182.06	244.76	250.67	249.01	250.91	0.001200	2.45	96.83	37.50	0.36
foenna_02	0.2	Max WS	A TR_30 1H	72.64	244.76	249.11	247.47	249.28	0.001200	1.88	44.04	24.32	0.33
foenna_02	0.2	Max WS	A TR_30 2H	106.38	244.76	249.73	248.03	249.93	0.001201	2.12	62.86	34.56	0.34
foenna_02	0.2	Max WS	A TR_30 3H	124.21	244.76	249.98	248.32	250.19	0.001201	2.21	71.69	35.48	0.35
foenna_02	0.2	Max WS	A TR_30 4H	132.78	244.76	250.09	248.45	250.31	0.001200	2.25	75.69	35.81	0.35
foenna_02	0.2	Max WS	A TR_30 6H	137.05	244.76	250.15	248.51	250.36	0.001201	2.27	77.64	35.97	0.35
foenna_02	0.2	Max WS	A TR_30 8H	137.28	244.76	250.15	248.52	250.37	0.001201	2.27	77.74	35.98	0.35
foenna_02	0.2	Max WS	A TR_30 12H	131.98	244.76	250.08	248.44	250.30	0.001201	2.24	75.32	35.78	0.35

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)
unico	48.95	Max WS	A TR_200 1H	85.47	0.00	84.68	0.00					260.36	259.51	259.30	259.06	258.89
unico	48.95	Max WS	A TR_200 2H	121.80	0.00	120.90	0.00					260.36	260.21	259.96	259.79	259.59
unico	48.95	Max WS	A TR_200 3H	141.22	0.00	140.85	0.00					260.36	260.56	260.30	260.16	259.94
unico	48.95	Max WS	A TR_200 4H	155.50	0.00	155.30	0.00					260.36	260.79	260.51	260.40	260.16
unico	48.95	Max WS	A TR_200 6H	177.40	2.72	172.94	2.72		69.30	0.14	0.08	260.36	261.02	260.69	260.61	260.35
unico	48.95	Max WS	A TR_200 8H	189.60	6.26	179.65	6.26		153.22	0.18	0.07	260.36	261.09	260.73	260.68	260.41
unico	48.95	Max WS	A TR_200 12H	189.10	6.07	179.44	6.07		149.11	0.18	0.07	260.36	261.09	260.73	260.68	260.41
unico	48.95	Max WS	A TR_30 1H	37.53	0.00	37.12	0.00					260.36	258.34	258.20	257.86	257.75
unico	48.95	Max WS	A TR_30 2H	52.14	0.00	51.62	0.00					260.36	258.75	258.59	258.29	258.16
unico	48.95	Max WS	A TR_30 3H	59.39	0.00	59.13	0.00					260.36	258.94	258.77	258.49	258.35
unico	48.95	Max WS	A TR_30 4H	62.91	0.00	62.76	0.00					260.36	259.03	258.85	258.59	258.45
unico	48.95	Max WS	A TR_30 6H	68.04	0.00	67.94	0.00					260.36	259.15	258.97	258.71	258.57
unico	48.95	Max WS	A TR_30 8H	73.10	0.00	73.00	0.00					260.36	259.26	259.07	258.82	258.67
unico	48.95	Max WS	A TR_30 12H	76.50	0.00	76.40	0.00					260.36	259.33	259.14	258.89	258.73
unico	48.9	Max WS	A TR_200 1H	85.47	0.00	84.68	0.00					260.56	259.51	259.30	259.06	258.89
unico	48.9	Max WS	A TR_200 2H	121.80	0.00	120.90	0.00					260.56	260.21	259.96	259.79	259.59
unico	48.9	Max WS	A TR_200 3H	141.22	0.00	140.85	0.00					260.56	260.56	260.30	260.16	259.94
unico	48.9	Max WS	A TR_200 4H	155.50	0.00	155.30	0.00					260.56	260.79	260.51	260.40	260.16
unico	48.9	Max WS	A TR_200 6H	177.40	1.68	172.94	1.68		50.66	0.13	0.07	260.56	261.02	260.69	260.61	260.35
unico	48.9	Max WS	A TR_200 8H	189.60	3.67	179.65	3.67		70.87	0.17	0.09	260.56	261.09	260.73	260.68	260.41
unico	48.9	Max WS	A TR_200 12H	189.10	3.59	179.44	3.59		70.06	0.17	0.09	260.56	261.09	260.73	260.68	260.41
unico	48.9	Max WS	A TR_30 1H	37.53	0.00	37.12	0.00					260.56	258.34	258.20	257.86	257.75
unico	48.9	Max WS	A TR_30 2H	52.14	0.00	51.62	0.00					260.56	258.75	258.59	258.29	258.16
unico	48.9	Max WS	A TR_30 3H	59.39	0.00	59.13	0.00					260.56	258.94	258.77	258.49	258.35
unico	48.9	Max WS	A TR_30 4H	62.91	0.00	62.76	0.00					260.56	259.03	258.85	258.59	258.45
unico	48.9	Max WS	A TR_30 6H	68.04	0.00	67.94	0.00					260.56	259.15	258.97	258.71	258.57
unico	48.9	Max WS	A TR_30 8H	73.10	0.00	73.00	0.00					260.56	259.26	259.07	258.82	258.67
unico	48.9	Max WS	A TR_30 12H	76.50	0.00	76.40	0.00					260.56	259.33	259.14	258.89	258.73
unico	46.95	Max WS	A TR_200 1H	84.68	0.00	83.27	0.00					260.14	259.06	258.89	258.60	258.40
unico	46.95	Max WS	A TR_200 2H	120.90	0.00	119.06	0.00					260.14	259.79	259.59	259.35	259.12
unico	46.95	Max WS	A TR_200 3H	140.85	0.00	139.65	0.00					260.14	260.16	259.94	259.74	259.50
unico	46.95	Max WS	A TR_200 4H	155.30	0.00	155.04	0.00					260.14	260.39	260.16	259.97	259.71
unico	46.95	Max WS	A TR_200 6H	172.94	0.00	172.92	0.00					260.14	260.61	260.35	260.15	259.85
unico	46.95	Max WS	A TR_200 8H	179.65	0.26	179.38	0.26		32.07	0.05	0.03	260.14	260.68	260.41	260.21	259.89
unico	46.95	Max WS	A TR_200 12H	179.44	0.23	179.21	0.23		30.37	0.05	0.02	260.14	260.68	260.41	260.20	259.88
unico	46.95	Max WS	A TR_30 1H	37.12	0.00	36.63	0.00					260.14	257.86	257.75	257.39	257.26
unico	46.95	Max WS	A TR_30 2H	51.62	0.00	51.03	0.00					260.14	258.29	258.16	257.82	257.66
unico	46.95	Max WS	A TR_30 3H	59.13	0.00	58.49	0.00					260.14	258.49	258.35	258.03	257.86
unico	46.95	Max WS	A TR_30 4H	62.76	0.00	62.26	0.00					260.14	258.59	258.45	258.13	257.96
unico	46.95	Max WS	A TR_30 6H	67.94	0.00	67.76	0.00					260.14	258.71	258.57	258.26	258.08
unico	46.95	Max WS	A TR_30 8H	73.00	0.00	72.82	0.00					260.14	258.82	258.67	258.36	258.17
unico	46.95	Max WS	A TR_30 12H	76.40	0.00	76.28	0.00					260.14	258.89	258.73	258.42	258.22
unico	46.9	Max WS	A TR_200 1H	84.68	0.00	83.27	0.00					259.91	259.06	258.89	258.60	258.40
unico	46.9	Max WS	A TR_200 2H	120.90	0.00	119.06	0.00					259.91	259.79	259.59	259.35	259.12
unico	46.9	Max WS	A TR_200 3H	140.85	0.00	139.65	0.00					259.91	260.16	259.94	259.74	259.50
unico	46.9	Max WS	A TR_200 4H	155.30	0.00	155.04	0.00					259.91	260.39	260.16	259.97	259.71
unico	46.9	Max WS	A TR_200 6H	172.94	0.00	172.92	0.00					259.91	260.61	260.35	260.15	259.85
unico	46.9	Max WS	A TR_200 8H	179.65	0.00	179.38	0.00					259.91	260.68	260.41	260.21	259.89
unico	46.9	Max WS	A TR_200 12H	179.44	0.00	179.21	0.00					259.91	260.68	260.41	260.20	259.88
unico	46.9	Max WS	A TR_30 1H	37.12	0.00	36.63	0.00					259.91	257.86	257.75	257.39	257.26
unico	46.9	Max WS	A TR_30 2H	51.62	0.00	51.03	0.00					259.91	258.29	258.16	257.82	257.66
unico	46.9	Max WS	A TR_30 3H	59.13	0.00	58.49	0.00					259.91	258.49	258.35	258.03	257.86
unico	46.9	Max WS	A TR_30 4H	62.76	0.00	62.26	0.00					259.91	258.59	258.45	258.13	257.96
unico	46.9	Max WS	A TR_30 6H	67.94	0.00	67.76	0.00					259.91	258.71	258.57	258.26	258.08
unico	46.9	Max WS	A TR_30 8H	73.00	0.00	72.82	0.00					259.91	258.82	258.67	258.36	258.17
unico	46.9	Max WS	A TR_30 12H	76.40	0.00	76.28	0.00					259.91	258.89	258.73	258.42	258.22
unico	44.95	Max WS	A TR_200 1H	83.27	0.00	82.40	0.00					259.97	258.60	258.40	258.36	258.18
unico	44.95	Max WS	A TR_200 2H	119.06	0.00	118.25	0.00					259.97	259.35	259.12	259.14	258.93
unico	44.95	Max WS	A TR_200 3H	139.65	0.00	139.29	0.00					259.97	259.74	259.50	259.54	259.31
unico	44.95	Max WS	A TR_200 4H	155.04	0.00	154.90	0.00					259.97	259.97	259.71	259.76	259.52
unico	44.95	Max WS	A TR_200 6H	172.92	0.00	172.92	0.00					259.97	260.15	259.85	259.91	259.63
unico	44.95	Max WS	A TR_200 8H	179.38	0.00	179.38	0.00					259.97	260.20	259.89	259.96	259.66
unico	44.95	Max WS	A TR_200 12H	179.21	0.00	179.21	0.00					259.97	260.20	259.88	259.96	259.66
unico	44.95	Max WS	A TR_30 1H	36.63	0.00	36.24	0.00					259.97	257.39	257.26	257.14	257.01
unico	44.95	Max WS	A TR_30 2H	51.03	0.00	50.54	0.00					259.97	257.82	257.66	257.58	257.43
unico	44.95	Max WS	A TR_30 3H	58.49	0.00	58.09	0.00					259.97	258.03	257.86	257.79	257.63
unico	44.95	Max WS	A TR_30 4H	62.26	0.00	61.98	0.00					259.97	258.13	257.96	257.90	257.73
unico	44.95	Max WS	A TR_30 6H	67.76	0.00	67.60	0.00					259.97	258.26	258.08	258.02	257.85
unico	44.95	Max WS	A TR_30 8H	72.82	0.00	72.73	0.00					259.97	258.36	258.17	258.12	257.94
unico	44.95	Max WS	A TR_30 12H	76.28	0.00	76.22	0.00					259.97	258.42	258.22	258.17	257.98
unico	44.9	Max WS	A TR_200 1H	83.27	0.00	82.40	0.00					259.75	258.60	258.40	258.36	258.18
unico	44.9	Max WS	A TR_200 2H	119.06	0.00	118.25	0.00					259.75	259.35	259.12	259.14	258.93
unico	44.9	Max WS	A TR_200 3H	139.65	0.00	139.29	0.00					259.75	259.74	259.50	259.54	259.31
unico	44.9	Max WS	A TR_200 4H	155.04	0.00	154.90	0.00					259.75	259.97	259.71	259.76	259.52
unico	44.9	Max WS	A TR_200 6H	172.92	0.00	172.92	0.00					259.75	260.15	259.85	259.91	259.63
unico	44.9	Max WS	A TR_200 8H	179.38	0.00	179.38	0.00					259.75	260.20	259.89	259.96	259.66
unico	44.9	Max WS	A TR_200 12H	179.21	0.00	179.21	0.00					259.75	260.20	259.88	259.96	259.66
unico	44.9	Max WS	A TR_30 1H	36.63	0.00	36.24	0.00					259.75	257.39	257.26	257.14	257.01
unico	44.9	Max WS	A TR_30 2H	51.03	0.00	50.54	0.00					259.75	257.82	257.66	257.58	257.43
unico	44.9	Max WS	A TR_30 3H	58.49	0.00	58.09	0.00					259.75	258.03	257.86	257.79	257.63
unico	44.9	Max WS	A TR_30 4H	62.26	0.00	61.98	0.00					259.75	258.13	257.96	257.90	257.73
unico	44.9	Max WS	A TR_30 6H	67.76	0.00	67.60	0.00					259.75	258.26	258.08	258.02	257.85
unico	44.9	Max WS	A TR_30 8H	72.82	0.00	72.73	0.00					259.75	258.36	258.17	258.12	257.94
unico	44.9	Max WS	A TR_30 12H	76.28	0.00	76.22	0.00					259.75	258.42	258.22	258.17	257.98
unico	43.95	Max WS	A TR_200 1H	82.40	0.00	81.72	0.00					259.33	258.36	258.18	258.00	257.86
unico	43.95	Max WS	A TR_200 2H	118.25	0.00	118.09	0.00					259.33	259.14	258.93	258.83	258.67
unico	43.95	Max WS	A TR_200 3H	139.29	0.00	139.18	0.00					259.33	259.54	259.31	259.24	259.07
unico	43.95	Max WS	A TR_200 4H	154.90	0.00	154.86	0.00					259.33	259.76	259.52	259.46	259.27
unico	43.95	Max WS	A TR_200 6H	172.92	0.09	172.81	0.09		108.80	0.01	0.01	259.33	259.91	259.63	259.56	259.33
unico	43.95	Max WS	A TR_200 8H	179.38	0.72	178.65	0.72		174.09	0.03	0.02	259.33	259.96	259.66	259.59	259.34
unico	43.95	Max WS	A TR_200 12H	179.21	0.54	178.66	0.54		165.60	0.02	0.02	259.33	259.96	259.66	259.59	259.34
unico	43.95	Max WS	A TR_30 1H	36.24	0.00	35.58	0.00					259.33	257.14	257.01	256.68	256.58
unico	43.95	Max WS	A TR_30 2H	50.54	0.00	50.00	0.00					259.33	257.58	257.43	257.17	257.06
unico	43.95	Max WS	A TR_30 3H	58.09	0.00	57.69	0.00					259.33	257.79	257.63	257.41	257.29
unico	43.95	Max WS	A TR_30 4H	61.98	0.00	61.74	0.00					259.33	257.90	257.73	257.52	257.40
unico	43.95	Max WS	A TR_30 6H	67.60	0.00	67.55	0.00					259.33	258.02	257.85	257.64	257.52
unico	43.95	Max WS	A TR_30 8H	72.73	0.00	72.69	0.00					259.33	258.12	257.94	257.73	257.59
unico	43.95	Max WS	A TR_30 12H	76.22	0.00	76.16	0.00					259.33	258.17	257.98	257.77	257.62
unico	43.9	Max WS	A TR_200 1H	82.40	0.00	81.72	0.00					259.64	258.36	258.18	258.00	257.86
unico	43.9	Max WS	A TR_200 2H	118.25	0.00	118.09	0.00					259.64	259.14	258.93	258.83	258.67
unico	43.9	Max WS	A TR_200 3H	139.29	0.00	139.18	0.00					259.64	259.54	259.31	259.24	259.07
unico	43.9	Max WS	A TR_200 4H	154.90	0.00	154.86	0.00					259.64	259.76	259.52	259.46	259.27
unico	43.9	Max WS	A TR_200 6H	172.92	0.00	172.81	0.00					259.64	259.91	259.63	259.56	259.33
unico	43.9	Max WS	A TR_200 8H	179.38	0.00	178.65	0.00					259.64	259.96	259.66	259.59	259.34
unico	43.9	Max WS	A TR_200 12H	179.21	0.00	178.66	0.00					259.64	259.96	259.66	259.59	259.34
unico	43.9	Max WS	A TR_30 1H	36.24	0.00	35.58	0.00					259.64	257.14	257.01	256.68	256.58
unico	43.9	Max WS	A TR_30 2H	50.54	0.00	50.00	0.00					259.64	257.58	257.43	257.17	257.06

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)
unico	43.9	Max WS	A TR_30 3H	58.09	0.00	57.69	0.00					259.64	257.79	257.63	257.41	257.29
unico	43.9	Max WS	A TR_30 4H	61.98	0.00	61.74	0.00					259.64	257.90	257.73	257.52	257.40
unico	43.9	Max WS	A TR_30 6H	67.60	0.00	67.55	0.00					259.64	258.02	257.85	257.64	257.52
unico	43.9	Max WS	A TR_30 8H	72.73	0.00	72.69	0.00					259.64	258.12	257.94	257.73	257.59
unico	43.9	Max WS	A TR_30 12H	76.22	0.00	76.16	0.00					259.64	258.17	257.98	257.77	257.62
unico	41.95	Max WS	A TR_200 1H	81.72	0.00	81.51	0.00					259.01	258.00	257.86	257.77	257.64
unico	41.95	Max WS	A TR_200 2H	118.09	0.00	118.00	0.00					259.01	258.83	258.67	258.63	258.49
unico	41.95	Max WS	A TR_200 3H	139.18	0.00	139.14	0.00					259.01	259.24	259.07	259.05	258.89
unico	41.95	Max WS	A TR_200 4H	154.86	1.64	153.19	1.64		131.68	0.07	0.03	259.01	259.46	259.27	259.25	259.08
unico	41.95	Max WS	A TR_200 6H	172.81	6.96	165.84	6.96		279.80	0.13	0.05	259.01	259.56	259.33	259.33	259.14
unico	41.95	Max WS	A TR_200 8H	178.65	8.25	170.36	8.25		279.80	0.13	0.06	259.01	259.59	259.34	259.34	259.14
unico	41.95	Max WS	A TR_200 12H	178.66	6.87	171.80	6.87		279.80	0.12	0.05	259.01	259.59	259.34	259.34	259.13
unico	41.95	Max WS	A TR_30 1H	35.58	0.00	35.32	0.00					259.01	256.68	256.58	256.39	256.29
unico	41.95	Max WS	A TR_30 2H	50.00	0.00	49.82	0.00					259.01	257.17	257.06	256.92	256.82
unico	41.95	Max WS	A TR_30 3H	57.69	0.00	57.60	0.00					259.01	257.41	257.29	257.17	257.07
unico	41.95	Max WS	A TR_30 4H	61.74	0.00	61.71	0.00					259.01	257.52	257.40	257.29	257.18
unico	41.95	Max WS	A TR_30 6H	67.55	0.00	67.54	0.00					259.01	257.64	257.52	257.40	257.29
unico	41.95	Max WS	A TR_30 8H	72.69	0.00	72.68	0.00					259.01	257.73	257.59	257.48	257.35
unico	41.95	Max WS	A TR_30 12H	76.16	0.00	76.15	0.00					259.01	257.77	257.62	257.49	257.35
unico	41.9	Max WS	A TR_200 1H	81.72	0.00	81.51	0.00					259.32	258.00	257.86	257.77	257.64
unico	41.9	Max WS	A TR_200 2H	118.09	0.00	118.00	0.00					259.32	258.83	258.67	258.63	258.49
unico	41.9	Max WS	A TR_200 3H	139.18	0.00	139.14	0.00					259.32	259.24	259.07	259.05	258.89
unico	41.9	Max WS	A TR_200 4H	154.86	0.00	153.19	0.00					259.32	259.46	259.27	259.25	259.08
unico	41.9	Max WS	A TR_200 6H	172.81	0.00	165.84	0.00					259.32	259.56	259.33	259.33	259.14
unico	41.9	Max WS	A TR_200 8H	178.65	0.00	170.36	0.00					259.32	259.59	259.34	259.34	259.14
unico	41.9	Max WS	A TR_200 12H	178.66	0.00	171.80	0.00					259.32	259.59	259.34	259.34	259.13
unico	41.9	Max WS	A TR_30 1H	35.58	0.00	35.32	0.00					259.32	256.68	256.58	256.39	256.29
unico	41.9	Max WS	A TR_30 2H	50.00	0.00	49.82	0.00					259.32	257.17	257.06	256.92	256.82
unico	41.9	Max WS	A TR_30 3H	57.69	0.00	57.60	0.00					259.32	257.41	257.29	257.17	257.07
unico	41.9	Max WS	A TR_30 4H	61.74	0.00	61.71	0.00					259.32	257.52	257.40	257.29	257.18
unico	41.9	Max WS	A TR_30 6H	67.55	0.00	67.54	0.00					259.32	257.64	257.52	257.40	257.29
unico	41.9	Max WS	A TR_30 8H	72.69	0.00	72.68	0.00					259.32	257.73	257.59	257.48	257.35
unico	41.9	Max WS	A TR_30 12H	76.16	0.00	76.15	0.00					259.32	257.77	257.62	257.49	257.35
unico	40.95	Max WS	A TR_200 1H	81.51	0.00	81.45	0.00					259.01	257.77	257.64	257.60	257.48
unico	40.95	Max WS	A TR_200 2H	118.00	0.00	118.00	0.00					259.01	258.63	258.49	258.49	258.34
unico	40.95	Max WS	A TR_200 3H	139.14	0.00	139.14	0.00					259.01	259.05	258.89	258.90	258.75
unico	40.95	Max WS	A TR_200 4H	153.19	1.55	151.63	1.55		110.83	0.07	0.04	259.01	259.25	259.08	259.11	258.94
unico	40.95	Max WS	A TR_200 6H	165.84	7.29	158.48	7.29		212.64	0.13	0.07	259.01	259.33	259.14	259.19	259.01
unico	40.95	Max WS	A TR_200 8H	170.36	7.91	162.41	7.91		214.03	0.13	0.07	259.01	259.34	259.14	259.20	259.01
unico	40.95	Max WS	A TR_200 12H	171.80	5.35	166.44	5.35		171.49	0.12	0.06	259.01	259.34	259.13	259.17	258.98
unico	40.95	Max WS	A TR_30 1H	35.32	0.00	35.21	0.00					259.01	256.39	256.29	256.17	256.09
unico	40.95	Max WS	A TR_30 2H	49.82	0.00	49.77	0.00					259.01	256.92	256.82	256.75	256.65
unico	40.95	Max WS	A TR_30 3H	57.60	0.00	57.59	0.00					259.01	257.17	257.07	257.01	256.91
unico	40.95	Max WS	A TR_30 4H	61.71	0.00	61.70	0.00					259.01	257.29	257.18	257.13	257.02
unico	40.95	Max WS	A TR_30 6H	67.54	0.00	67.52	0.00					259.01	257.40	257.29	257.23	257.11
unico	40.95	Max WS	A TR_30 8H	72.68	0.00	72.64	0.00					259.01	257.48	257.35	257.29	257.16
unico	40.95	Max WS	A TR_30 12H	76.15	0.00	76.15	0.00					259.01	257.49	257.35	257.28	257.14
unico	40.9	Max WS	A TR_200 1H	81.51	0.00	81.45	0.00					259.32	257.77	257.64	257.60	257.48
unico	40.9	Max WS	A TR_200 2H	118.00	0.00	118.00	0.00					259.32	258.63	258.49	258.49	258.34
unico	40.9	Max WS	A TR_200 3H	139.14	0.00	139.14	0.00					259.32	259.05	258.89	258.90	258.75
unico	40.9	Max WS	A TR_200 4H	153.19	0.00	151.63	0.00					259.32	259.25	259.08	259.11	258.94
unico	40.9	Max WS	A TR_200 6H	165.84	0.00	158.48	0.00					259.32	259.33	259.14	259.19	259.01
unico	40.9	Max WS	A TR_200 8H	170.36	0.00	162.41	0.00					259.32	259.34	259.14	259.20	259.01
unico	40.9	Max WS	A TR_200 12H	171.80	0.00	166.44	0.00					259.32	259.34	259.13	259.17	258.98
unico	40.9	Max WS	A TR_30 1H	35.32	0.00	35.21	0.00					259.32	256.39	256.29	256.17	256.09
unico	40.9	Max WS	A TR_30 2H	49.82	0.00	49.77	0.00					259.32	256.92	256.82	256.75	256.65
unico	40.9	Max WS	A TR_30 3H	57.60	0.00	57.59	0.00					259.32	257.17	257.07	257.01	256.91
unico	40.9	Max WS	A TR_30 4H	61.71	0.00	61.70	0.00					259.32	257.29	257.18	257.13	257.02
unico	40.9	Max WS	A TR_30 6H	67.54	0.00	67.52	0.00					259.32	257.40	257.29	257.23	257.11
unico	40.9	Max WS	A TR_30 8H	72.68	0.00	72.64	0.00					259.32	257.48	257.35	257.29	257.16
unico	40.9	Max WS	A TR_30 12H	76.15	0.00	76.15	0.00					259.32	257.49	257.35	257.28	257.14
foenna_01	37.95	Max WS	A TR_200 1H	134.92	0.00	134.80	0.00					258.84	257.64	257.46	257.21	256.95
foenna_01	37.95	Max WS	A TR_200 2H	198.03	0.00	198.01	0.00					258.84	258.51	258.28	258.07	257.76
foenna_01	37.95	Max WS	A TR_200 3H	226.37	0.00	226.35	0.00					258.84	258.84	258.60	258.41	258.06
foenna_01	37.95	Max WS	A TR_200 4H	240.92	0.00	240.91	0.00					258.84	259.00	258.75	258.57	258.21
foenna_01	37.95	Max WS	A TR_200 6H	246.04	0.00	245.93	0.00					258.84	259.06	258.80	258.63	258.26
foenna_01	37.95	Max WS	A TR_200 8H	245.44	0.00	245.37	0.00					258.84	259.05	258.80	258.62	258.25
foenna_01	37.95	Max WS	A TR_200 12H	241.25	0.00	241.21	0.00					258.84	259.00	258.75	258.57	258.20
foenna_01	37.95	Max WS	A TR_30 1H	53.79	0.00	53.67	0.00					258.84	256.14	256.04	255.69	255.55
foenna_01	37.95	Max WS	A TR_30 2H	80.77	0.00	80.65	0.00					258.84	256.75	256.62	256.30	256.12
foenna_01	37.95	Max WS	A TR_30 3H	95.39	0.00	95.31	0.00					258.84	257.03	256.88	256.58	256.38
foenna_01	37.95	Max WS	A TR_30 4H	102.43	0.00	102.39	0.00					258.84	257.15	257.00	256.71	256.49
foenna_01	37.95	Max WS	A TR_30 6H	108.17	0.00	108.14	0.00					258.84	257.25	257.09	256.80	256.58
foenna_01	37.95	Max WS	A TR_30 8H	111.10	0.00	111.08	0.00					258.84	257.29	257.13	256.85	256.62
foenna_01	37.95	Max WS	A TR_30 12H	109.68	0.00	109.67	0.00					258.84	257.27	257.11	256.82	256.60
foenna_01	37.9	Max WS	A TR_200 1H	134.92	0.00	134.80	0.00					258.67	257.64	257.46	257.21	256.95
foenna_01	37.9	Max WS	A TR_200 2H	198.03	0.00	198.01	0.00					258.67	258.51	258.28	258.07	257.76
foenna_01	37.9	Max WS	A TR_200 3H	226.37	0.00	226.35	0.00					258.67	258.84	258.60	258.41	258.06
foenna_01	37.9	Max WS	A TR_200 4H	240.92	0.00	240.91	0.00					258.67	259.00	258.75	258.57	258.21
foenna_01	37.9	Max WS	A TR_200 6H	246.04	0.00	245.93	0.00					258.67	259.06	258.80	258.63	258.26
foenna_01	37.9	Max WS	A TR_200 8H	245.44	0.00	245.37	0.00					258.67	259.05	258.80	258.62	258.25
foenna_01	37.9	Max WS	A TR_200 12H	241.25	0.00	241.21	0.00					258.67	259.00	258.75	258.57	258.20
foenna_01	37.9	Max WS	A TR_30 1H	53.79	0.00	53.67	0.00					258.67	256.14	256.04	255.69	255.55
foenna_01	37.9	Max WS	A TR_30 2H	80.77	0.00	80.65	0.00					258.67	256.75	256.62	256.30	256.12
foenna_01	37.9	Max WS	A TR_30 3H	95.39	0.00	95.31	0.00					258.67	257.03	256.88	256.58	256.38
foenna_01	37.9	Max WS	A TR_30 4H	102.43	0.00	102.39	0.00					258.67	257.15	257.00	256.71	256.49
foenna_01	37.9	Max WS	A TR_30 6H	108.17	0.00	108.14	0.00					258.67	257.25	257.09	256.80	256.58
foenna_01	37.9	Max WS	A TR_30 8H	111.10	0.00	111.08	0.00					258.67	257.29	257.13	256.85	256.62
foenna_01	37.9	Max WS	A TR_30 12H	109.68	0.00	109.67	0.00					258.67	257.27	257.11	256.82	256.60
foenna_01	34.95	Max WS	A TR_200 1H	134.80	0.00	134.75	0.00					258.36	257.21	256.95	256.59	256.30
foenna_01	34.95	Max WS	A TR_200 2H	198.01	0.00	197.77	0.00					258.36	258.07	257.76	257.45	257.08
foenna_01	34.95	Max WS	A TR_200 3H	226.35	0.00	226.04	0.00					258.36	258.41	258.06	257.78	257.38
foenna_01	34.95	Max WS	A TR_200 4H	240.91	0.00	240.56	0.00					258.36	258.57	258.21	257.94	257.52
foenna_01	34.95	Max WS	A TR_200 6H	245.93	0.00	245.36	0.00					258.36	258.63	258.26	258.00	257.58
foenna_01	34.95	Max WS	A TR_200 8H	245.37	0.00	245.00	0.00					258.36	258.62	258.25	257.99	257.57
foenna_01	34.95	Max WS	A TR_200 12H	241.21	0.00	241.05	0.00					258.36	258.57	258.20	257.93	257.51
foenna_01	34.95	Max WS	A TR_30 1H	53.67	0.00	53.64	0.00					258.36	255.69	255.55	255.11	254.96
foenna_01	34.95	Max WS	A TR_30 2H	80.65	0.00	80.62	0.00					258.36	256.30	256.12	255.72	255.52
foenna_01	34.95	Max WS	A TR_30 3H	95.31	0.00	95.27	0.00					258.36	256.58	256.38	255.99	255.77
foenna_01	34.95	Max WS	A TR_30 4H	102.39	0.00	102.35	0.00					258.36	256.71	256.49	256.11	255.88
foenna_01	34.95	Max WS	A TR_30 6H	108.14	0.00	108.06	0.00					258.36	256.80	256.58	256.20	255.96
foenna_01	34.95	Max WS	A TR_30 8H	111.08	0.00	111.01	0.00					258.36	256.85	256.62	256.24	255.99
foenna_01	34.95	Max WS	A TR_30 12H	109.67	0.00	109.57	0.00					258.36	256.82	256.60	256.22	255.97
foenna_01	34.9	Max WS	A TR_200 1H	134.80	0.00	134.75	0.00					258.43	257.21	256.95	256.59	256.30
foenna_01	34.9	Max WS	A TR_200 2H	198.01	0.00	197.77	0.00					258.43	258.07	257.76	257.45	257.08
foenna_01	34.9	Max WS	A TR_200 3H	226.35	0.00	226.04	0.00					258.43	258.41	258.06	257.78	257.38

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)
foenna_01	34.9	Max WS	A TR_200 4H	240.91	0.00	240.56	0.00					258.43	258.57	258.21	257.94	257.52
foenna_01	34.9	Max WS	A TR_200 6H	245.93	0.00	245.36	0.00					258.43	258.63	258.26	258.00	257.58
foenna_01	34.9	Max WS	A TR_200 8H	245.37	0.00	245.00	0.00					258.43	258.62	258.25	257.99	257.57
foenna_01	34.9	Max WS	A TR_200 12H	241.21	0.00	241.05	0.00					258.43	258.57	258.20	257.93	257.51
foenna_01	34.9	Max WS	A TR_30 1H	53.67	0.00	53.64	0.00					258.43	255.69	255.55	255.11	254.96
foenna_01	34.9	Max WS	A TR_30 2H	80.65	0.00	80.62	0.00					258.43	256.30	256.12	255.72	255.52
foenna_01	34.9	Max WS	A TR_30 3H	95.31	0.00	95.27	0.00					258.43	256.58	256.38	255.99	255.77
foenna_01	34.9	Max WS	A TR_30 4H	102.39	0.00	102.35	0.00					258.43	256.71	256.49	256.11	255.88
foenna_01	34.9	Max WS	A TR_30 6H	108.14	0.00	108.06	0.00					258.43	256.80	256.58	256.20	255.96
foenna_01	34.9	Max WS	A TR_30 8H	111.08	0.00	111.01	0.00					258.43	256.85	256.62	256.24	255.99
foenna_01	34.9	Max WS	A TR_30 12H	109.67	0.00	109.57	0.00					258.43	256.82	256.60	256.22	255.97
foenna_01	32.7	Max WS	A TR_200 1H	134.75	0.00	139.00	0.00					257.98	256.59	256.30	255.98	255.52
foenna_01	32.7	Max WS	A TR_200 2H	197.77	0.00	204.69	0.00					257.98	257.45	257.08	256.79	256.22
foenna_01	32.7	Max WS	A TR_200 3H	226.04	0.00	233.92	0.00					257.98	257.78	257.38	257.11	256.50
foenna_01	32.7	Max WS	A TR_200 4H	240.56	0.00	249.00	0.00					257.98	257.94	257.52	257.27	256.64
foenna_01	32.7	Max WS	A TR_200 6H	245.36	0.00	254.94	0.00					257.98	258.00	257.58	257.33	256.69
foenna_01	32.7	Max WS	A TR_200 8H	245.00	0.00	253.85	0.00					257.98	257.99	257.56	257.32	256.68
foenna_01	32.7	Max WS	A TR_200 12H	241.05	0.00	248.32	0.00					257.98	257.93	257.51	257.26	256.63
foenna_01	32.7	Max WS	A TR_30 1H	53.64	0.00	55.30	0.00					257.98	255.11	254.96	254.53	254.26
foenna_01	32.7	Max WS	A TR_30 2H	80.62	0.00	83.18	0.00					257.98	255.72	255.52	255.10	254.74
foenna_01	32.7	Max WS	A TR_30 3H	95.27	0.00	98.48	0.00					257.98	255.99	255.77	255.36	254.98
foenna_01	32.7	Max WS	A TR_30 4H	102.35	0.00	105.73	0.00					257.98	256.11	255.88	255.49	255.09
foenna_01	32.7	Max WS	A TR_30 6H	108.06	0.00	111.34	0.00					257.98	256.20	255.96	255.57	255.16
foenna_01	32.7	Max WS	A TR_30 8H	111.01	0.00	114.18	0.00					257.98	256.24	255.99	255.61	255.20
foenna_01	32.7	Max WS	A TR_30 12H	109.57	0.00	112.52	0.00					257.98	256.22	255.97	255.59	255.17
foenna_01	32.6	Max WS	A TR_200 1H	134.75	0.00	139.00	0.00					258.01	256.59	256.30	255.98	255.52
foenna_01	32.6	Max WS	A TR_200 2H	197.77	0.00	204.69	0.00					258.01	257.45	257.08	256.79	256.22
foenna_01	32.6	Max WS	A TR_200 3H	226.04	0.00	233.92	0.00					258.01	257.78	257.38	257.11	256.50
foenna_01	32.6	Max WS	A TR_200 4H	240.56	0.00	249.00	0.00					258.01	257.94	257.52	257.27	256.64
foenna_01	32.6	Max WS	A TR_200 6H	245.36	0.00	254.94	0.00					258.01	258.00	257.58	257.33	256.69
foenna_01	32.6	Max WS	A TR_200 8H	245.00	0.00	253.85	0.00					258.01	257.99	257.56	257.32	256.68
foenna_01	32.6	Max WS	A TR_200 12H	241.05	0.00	248.32	0.00					258.01	257.93	257.51	257.26	256.63
foenna_01	32.6	Max WS	A TR_30 1H	53.64	0.00	55.30	0.00					258.01	255.11	254.96	254.53	254.26
foenna_01	32.6	Max WS	A TR_30 2H	80.62	0.00	83.18	0.00					258.01	255.72	255.52	255.10	254.74
foenna_01	32.6	Max WS	A TR_30 3H	95.27	0.00	98.48	0.00					258.01	255.99	255.77	255.36	254.98
foenna_01	32.6	Max WS	A TR_30 4H	102.35	0.00	105.73	0.00					258.01	256.11	255.88	255.49	255.09
foenna_01	32.6	Max WS	A TR_30 6H	108.06	0.00	111.34	0.00					258.01	256.20	255.96	255.57	255.16
foenna_01	32.6	Max WS	A TR_30 8H	111.01	0.00	114.18	0.00					258.01	256.24	255.99	255.61	255.20
foenna_01	32.6	Max WS	A TR_30 12H	109.57	0.00	112.52	0.00					258.01	256.22	255.97	255.59	255.17
foenna_01	29.6	Max WS	A TR_200 1H	137.80	0.00	137.80	0.00					256.41	255.23	255.10	255.17	255.09
foenna_01	29.6	Max WS	A TR_200 2H	204.69	0.00	204.70	0.00					256.41	255.64	255.41	255.55	255.39
foenna_01	29.6	Max WS	A TR_200 3H	233.55	0.00	233.34	0.00					256.41	255.79	255.50	255.68	255.48
foenna_01	29.6	Max WS	A TR_200 4H	248.77	0.00	248.72	0.00					256.41	255.87	255.54	255.75	255.53
foenna_01	29.6	Max WS	A TR_200 6H	254.83	0.00	254.79	0.00					256.41	255.90	255.56	255.78	255.55
foenna_01	29.6	Max WS	A TR_200 8H	253.84	0.00	253.84	0.00					256.41	255.90	255.56	255.77	255.55
foenna_01	29.6	Max WS	A TR_200 12H	248.32	0.00	248.32	0.00					256.41	255.87	255.55	255.75	255.53
foenna_01	29.6	Max WS	A TR_30 1H	54.99	0.00	54.95	0.00					256.41	253.75	253.69	253.71	253.68
foenna_01	29.6	Max WS	A TR_30 2H	82.74	0.00	82.74	0.00					256.41	254.40	254.32	254.36	254.31
foenna_01	29.6	Max WS	A TR_30 3H	98.12	0.00	98.09	0.00					256.41	254.69	254.60	254.64	254.59
foenna_01	29.6	Max WS	A TR_30 4H	105.52	0.00	105.50	0.00					256.41	254.81	254.72	254.77	254.70
foenna_01	29.6	Max WS	A TR_30 6H	111.28	0.00	111.27	0.00					256.41	254.87	254.77	254.82	254.75
foenna_01	29.6	Max WS	A TR_30 8H	114.08	0.00	114.08	0.00					256.41	254.87	254.77	254.82	254.75
foenna_01	29.6	Max WS	A TR_30 12H	112.42	0.00	112.40	0.00					256.41	254.79	254.68	254.74	254.67
foenna_01	29.5	Max WS	A TR_200 1H	137.80	0.00	137.80	0.00					256.06	255.23	255.10	255.17	255.09
foenna_01	29.5	Max WS	A TR_200 2H	204.69	0.00	204.70	0.00					256.06	255.64	255.41	255.55	255.39
foenna_01	29.5	Max WS	A TR_200 3H	233.55	0.00	233.34	0.00					256.06	255.79	255.50	255.68	255.48
foenna_01	29.5	Max WS	A TR_200 4H	248.77	0.00	248.72	0.00					256.06	255.87	255.54	255.75	255.53
foenna_01	29.5	Max WS	A TR_200 6H	254.83	0.00	254.79	0.00					256.06	255.90	255.56	255.78	255.55
foenna_01	29.5	Max WS	A TR_200 8H	253.84	0.00	253.84	0.00					256.06	255.90	255.56	255.77	255.55
foenna_01	29.5	Max WS	A TR_200 12H	248.32	0.00	248.32	0.00					256.06	255.87	255.55	255.75	255.53
foenna_01	29.5	Max WS	A TR_30 1H	54.99	0.00	54.95	0.00					256.06	253.75	253.69	253.71	253.68
foenna_01	29.5	Max WS	A TR_30 2H	82.74	0.00	82.74	0.00					256.06	254.40	254.32	254.36	254.31
foenna_01	29.5	Max WS	A TR_30 3H	98.12	0.00	98.09	0.00					256.06	254.69	254.60	254.64	254.59
foenna_01	29.5	Max WS	A TR_30 4H	105.52	0.00	105.50	0.00					256.06	254.81	254.72	254.77	254.70
foenna_01	29.5	Max WS	A TR_30 6H	111.28	0.00	111.27	0.00					256.06	254.87	254.77	254.82	254.75
foenna_01	29.5	Max WS	A TR_30 8H	114.08	0.00	114.08	0.00					256.06	254.87	254.77	254.82	254.75
foenna_01	29.5	Max WS	A TR_30 12H	112.42	0.00	112.40	0.00					256.06	254.79	254.68	254.74	254.67
foenna_02	27.85	Max WS	A TR_200 1H	164.82	0.00	164.20	0.00					256.59	255.21	255.09	255.07	254.82
foenna_02	27.85	Max WS	A TR_200 2H	185.59	0.00	181.92	0.00					256.59	255.52	255.39	255.37	255.12
foenna_02	27.85	Max WS	A TR_200 3H	184.28	0.00	182.33	0.00					256.59	255.60	255.48	255.46	255.23
foenna_02	27.85	Max WS	A TR_200 4H	183.65	0.00	182.79	0.00					256.59	255.65	255.53	255.51	255.29
foenna_02	27.85	Max WS	A TR_200 6H	183.18	0.00	182.93	0.00					256.59	255.67	255.55	255.54	255.31
foenna_02	27.85	Max WS	A TR_200 8H	182.82	0.00	182.73	0.00					256.59	255.66	255.55	255.53	255.31
foenna_02	27.85	Max WS	A TR_200 12H	182.16	0.00	182.12	0.00					256.59	255.65	255.53	255.52	255.29
foenna_02	27.85	Max WS	A TR_30 1H	77.32	0.00	77.05	0.00					256.59	253.74	253.68	253.59	253.43
foenna_02	27.85	Max WS	A TR_30 2H	111.73	0.00	111.29	0.00					256.59	254.40	254.31	254.24	254.04
foenna_02	27.85	Max WS	A TR_30 3H	128.80	0.00	128.42	0.00					256.59	254.69	254.59	254.53	254.31
foenna_02	27.85	Max WS	A TR_30 4H	136.31	0.00	136.02	0.00					256.59	254.81	254.70	254.65	254.43
foenna_02	27.85	Max WS	A TR_30 6H	139.34	0.00	139.13	0.00					256.59	254.86	254.75	254.71	254.48
foenna_02	27.85	Max WS	A TR_30 8H	139.08	0.00	138.91	0.00					256.59	254.86	254.75	254.70	254.48
foenna_02	27.85	Max WS	A TR_30 12H	133.10	0.00	132.98	0.00					256.59	254.77	254.67	254.61	254.39
foenna_02	27.84	Max WS	A TR_200 1H	164.82	0.00	164.20	0.00					256.19	255.21	255.09	255.07	254.82
foenna_02	27.84	Max WS	A TR_200 2H	185.59	0.00	181.92	0.00					256.19	255.52	255.39	255.37	255.12
foenna_02	27.84	Max WS	A TR_200 3H	184.28	0.00	182.33	0.00					256.19	255.60	255.48	255.46	255.23
foenna_02	27.84	Max WS	A TR_200 4H	183.65	0.00	182.79	0.00					256.19	255.65	255.53	255.51	255.29
foenna_02	27.84	Max WS	A TR_200 6H	183.18	0.00	182.93	0.00					256.19	255.67	255.55	255.54	255.31
foenna_02	27.84	Max WS	A TR_200 8H	182.82	0.00	182.73	0.00					256.19	255.66	255.55	255.53	255.31
foenna_02	27.84	Max WS	A TR_200 12H	182.16	0.00	182.12	0.00					256.19	255.65	255.53	255.52	255.29
foenna_02	27.84	Max WS	A TR_30 1H	77.32	0.00	77.05	0.00					256.19	253.74	253.68	253.59	253.43
foenna_02	27.84	Max WS	A TR_30 2H	111.73	0.00	111.29	0.00					256.19	254.40	254.31	254.24	254.04
foenna_02	27.84	Max WS	A TR_30 3H	128.80	0.00	128.42	0.00					256.19	254.69	254.59	254.53	254.31
foenna_02	27.84	Max WS	A TR_30 4H	136.31	0.00	136.02	0.00					256.19	254.81	254.70	254.65	254.43
foenna_02	27.84	Max WS	A TR_30 6H	139.34	0.00	139.13	0.00					256.19	254.86	254.75	254.71	254.48
foenna_02	27.84	Max WS	A TR_30 8H	139.08	0.00	138.91	0.00					256.19	254.86	254.75	254.70	254.48
foenna_02	27.84	Max WS	A TR_30 12H	133.10	0.00	132.98	0.00					256.19	254.77	254.67	254.61	254.39
foenna_02	26.9	Max WS	A TR_200 1H	164.27	0.00	163.50	0.00					255.45	255.07	254.82	254.60	254.39
foenna_02	26.9	Max WS	A TR_200 2H	182.44	0.00	179.88	0.00					255.45	255.37	255.12	254.94	254.74
foenna_02	26.9	Max WS	A TR_200 3H	182.55	0.00	181.41	0.00					255.45	255.46	255.23	255.08	254.89
foenna_02	26.9	Max WS	A TR_200 4H	182.89	0.00	182.35	0.00					255.45	255.51	255.29	255.15	254.97
foenna_02	26.9	Max WS	A TR_200 6H	182.94	0.00	182.81	0.00					255.45	255.54	255.31	255.18	255.00
foenna_02	26.9	Max WS	A TR_200 8H	182.75	0.00	182.69	0.00					255.45	255.53	255.31	255.18	255.00
foenna_02	26.9	Max WS	A TR_200 12H	182.12	0.00	182.09	0.00					255.45	255.52	255.29	255.16	254.98
foenna_02	26.9	Max WS	A TR_30 1H	77.07	0.00	76.64	0.00					255.45	253.59	253.43	253.13	253.00
foenna_02	26.9	Max WS	A TR_30 2H	111.37	0.00	110.87	0.00					255.45	254.24	254.04	253.78	253.61
foenna_02	26.9	Max WS	A TR_30 3H	128.48	0.00	128.02	0.00					255.45	254.53	254.31	254.07	253.89
foenna_02	26.9	Max WS	A TR_30 4H	136.09	0.00	135.69	0.00					255.45	254.65	254.43	254.19	254.01
foenna_02	26.9	Max WS	A TR_30 6H	139.16	0.00	138.95	0.00					255.45	254.71	254.48	254.25	254.06

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)
foenna_02	26.9	Max WS	A TR_30 8H	138.93	0.00	138.74	0.00					255.45	254.70	254.48	254.25	254.06
foenna_02	26.9	Max WS	A TR_30 12H	133.00	0.00	132.89	0.00					255.45	254.61	254.39	254.16	253.97
foenna_02	26.8	Max WS	A TR_200 1H	164.27	0.00	163.50	0.00					255.86	255.07	254.82	254.60	254.39
foenna_02	26.8	Max WS	A TR_200 2H	182.44	0.00	179.88	0.00					255.86	255.37	255.12	254.94	254.74
foenna_02	26.8	Max WS	A TR_200 3H	182.55	0.00	181.41	0.00					255.86	255.46	255.23	255.08	254.89
foenna_02	26.8	Max WS	A TR_200 4H	182.89	0.00	182.35	0.00					255.86	255.51	255.29	255.15	254.97
foenna_02	26.8	Max WS	A TR_200 6H	182.94	0.00	182.81	0.00					255.86	255.54	255.31	255.18	255.00
foenna_02	26.8	Max WS	A TR_200 8H	182.75	0.00	182.69	0.00					255.86	255.53	255.31	255.18	255.00
foenna_02	26.8	Max WS	A TR_200 12H	182.12	0.00	182.09	0.00					255.86	255.52	255.29	255.16	254.98
foenna_02	26.8	Max WS	A TR_30 1H	77.07	0.00	76.64	0.00					255.86	253.59	253.43	253.13	253.00
foenna_02	26.8	Max WS	A TR_30 2H	111.37	0.00	110.87	0.00					255.86	254.24	254.04	253.78	253.61
foenna_02	26.8	Max WS	A TR_30 3H	128.48	0.00	128.02	0.00					255.86	254.53	254.31	254.07	253.89
foenna_02	26.8	Max WS	A TR_30 4H	136.09	0.00	135.69	0.00					255.86	254.65	254.43	254.19	254.01
foenna_02	26.8	Max WS	A TR_30 6H	139.16	0.00	138.95	0.00					255.86	254.71	254.48	254.25	254.06
foenna_02	26.8	Max WS	A TR_30 8H	138.93	0.00	138.74	0.00					255.86	254.70	254.48	254.25	254.06
foenna_02	26.8	Max WS	A TR_30 12H	133.00	0.00	132.89	0.00					255.86	254.61	254.39	254.16	253.97
foenna_02	24.9	Max WS	A TR_200 1H	163.50	0.00	163.23	0.00					255.72	254.60	254.39	254.42	254.19
foenna_02	24.9	Max WS	A TR_200 2H	179.88	0.00	179.29	0.00					255.72	254.94	254.74	254.78	254.54
foenna_02	24.9	Max WS	A TR_200 3H	181.41	0.00	181.06	0.00					255.72	255.08	254.89	254.93	254.71
foenna_02	24.9	Max WS	A TR_200 4H	182.35	0.00	182.14	0.00					255.72	255.15	254.97	255.01	254.79
foenna_02	24.9	Max WS	A TR_200 6H	182.81	0.00	182.76	0.00					255.72	255.18	255.00	255.04	254.83
foenna_02	24.9	Max WS	A TR_200 8H	182.69	0.00	182.68	0.00					255.72	255.18	255.00	255.04	254.83
foenna_02	24.9	Max WS	A TR_200 12H	182.09	0.00	182.09	0.00					255.72	255.16	254.98	255.02	254.80
foenna_02	24.9	Max WS	A TR_30 1H	76.64	0.00	76.55	0.00					255.72	253.13	253.00	252.96	252.84
foenna_02	24.9	Max WS	A TR_30 2H	110.87	0.00	110.68	0.00					255.72	253.78	253.61	253.60	253.44
foenna_02	24.9	Max WS	A TR_30 3H	128.02	0.00	127.84	0.00					255.72	254.07	253.89	253.89	253.70
foenna_02	24.9	Max WS	A TR_30 4H	135.69	0.00	135.56	0.00					255.72	254.19	254.01	254.01	253.82
foenna_02	24.9	Max WS	A TR_30 6H	138.95	0.00	138.86	0.00					255.72	254.25	254.06	254.07	253.87
foenna_02	24.9	Max WS	A TR_30 8H	138.74	0.00	138.68	0.00					255.72	254.25	254.06	254.07	253.87
foenna_02	24.9	Max WS	A TR_30 12H	132.89	0.00	132.86	0.00					255.72	254.16	253.97	253.98	253.79
foenna_02	24.8	Max WS	A TR_200 1H	163.50	0.00	163.23	0.00					255.45	254.60	254.39	254.42	254.19
foenna_02	24.8	Max WS	A TR_200 2H	179.88	0.00	179.29	0.00					255.45	254.94	254.74	254.78	254.54
foenna_02	24.8	Max WS	A TR_200 3H	181.41	0.00	181.06	0.00					255.45	255.08	254.89	254.93	254.71
foenna_02	24.8	Max WS	A TR_200 4H	182.35	0.00	182.14	0.00					255.45	255.15	254.97	255.01	254.79
foenna_02	24.8	Max WS	A TR_200 6H	182.81	0.00	182.76	0.00					255.45	255.18	255.00	255.04	254.83
foenna_02	24.8	Max WS	A TR_200 8H	182.69	0.00	182.68	0.00					255.45	255.18	255.00	255.04	254.83
foenna_02	24.8	Max WS	A TR_200 12H	182.09	0.00	182.09	0.00					255.45	255.16	254.98	255.02	254.80
foenna_02	24.8	Max WS	A TR_30 1H	76.64	0.00	76.55	0.00					255.45	253.13	253.00	252.96	252.84
foenna_02	24.8	Max WS	A TR_30 2H	110.87	0.00	110.68	0.00					255.45	253.78	253.61	253.60	253.44
foenna_02	24.8	Max WS	A TR_30 3H	128.02	0.00	127.84	0.00					255.45	254.07	253.89	253.89	253.70
foenna_02	24.8	Max WS	A TR_30 4H	135.69	0.00	135.56	0.00					255.45	254.19	254.01	254.01	253.82
foenna_02	24.8	Max WS	A TR_30 6H	138.95	0.00	138.86	0.00					255.45	254.25	254.06	254.07	253.87
foenna_02	24.8	Max WS	A TR_30 8H	138.74	0.00	138.68	0.00					255.45	254.25	254.06	254.07	253.87
foenna_02	24.8	Max WS	A TR_30 12H	132.89	0.00	132.86	0.00					255.45	254.16	253.97	253.98	253.79
foenna_02	22.9	Max WS	A TR_200 1H	163.01	0.00	162.54	0.00					254.98	254.36	254.09	254.03	253.78
foenna_02	22.9	Max WS	A TR_200 2H	178.91	0.00	178.41	0.00					254.98	254.72	254.45	254.45	254.22
foenna_02	22.9	Max WS	A TR_200 3H	180.90	0.00	180.78	0.00					254.98	254.88	254.63	254.64	254.44
foenna_02	22.9	Max WS	A TR_200 4H	182.07	0.00	182.04	0.00					254.98	254.96	254.72	254.73	254.54
foenna_02	22.9	Max WS	A TR_200 6H	182.75	0.00	182.74	0.00					254.98	254.99	254.75	254.77	254.58
foenna_02	22.9	Max WS	A TR_200 8H	182.67	0.00	182.66	0.00					254.98	254.99	254.75	254.77	254.58
foenna_02	22.9	Max WS	A TR_200 12H	182.08	0.00	182.08	0.00					254.98	254.96	254.73	254.75	254.55
foenna_02	22.9	Max WS	A TR_30 1H	76.45	0.00	76.20	0.00					254.98	252.92	252.78	252.60	252.44
foenna_02	22.9	Max WS	A TR_30 2H	110.59	0.00	110.23	0.00					254.98	253.55	253.36	253.23	253.03
foenna_02	22.9	Max WS	A TR_30 3H	127.77	0.00	127.44	0.00					254.98	253.83	253.62	253.51	253.30
foenna_02	22.9	Max WS	A TR_30 4H	135.48	0.00	135.24	0.00					254.98	253.96	253.74	253.64	253.42
foenna_02	22.9	Max WS	A TR_30 6H	138.79	0.00	138.65	0.00					254.98	254.01	253.79	253.69	253.47
foenna_02	22.9	Max WS	A TR_30 8H	138.64	0.00	138.50	0.00					254.98	254.01	253.78	253.69	253.47
foenna_02	22.9	Max WS	A TR_30 12H	132.83	0.00	132.76	0.00					254.98	253.92	253.71	253.61	253.39
foenna_02	22.85	Max WS	A TR_200 1H	163.01	0.00	162.54	0.00					255.41	254.36	254.09	254.03	253.78
foenna_02	22.85	Max WS	A TR_200 2H	178.91	0.00	178.41	0.00					255.41	254.72	254.45	254.45	254.22
foenna_02	22.85	Max WS	A TR_200 3H	180.90	0.00	180.78	0.00					255.41	254.88	254.63	254.64	254.44
foenna_02	22.85	Max WS	A TR_200 4H	182.07	0.00	182.04	0.00					255.41	254.96	254.72	254.73	254.54
foenna_02	22.85	Max WS	A TR_200 6H	182.75	0.00	182.74	0.00					255.41	254.99	254.75	254.77	254.58
foenna_02	22.85	Max WS	A TR_200 8H	182.67	0.00	182.66	0.00					255.41	254.99	254.75	254.77	254.58
foenna_02	22.85	Max WS	A TR_200 12H	182.08	0.00	182.08	0.00					255.41	254.96	254.73	254.75	254.55
foenna_02	22.85	Max WS	A TR_30 1H	76.45	0.00	76.20	0.00					255.41	252.92	252.78	252.60	252.44
foenna_02	22.85	Max WS	A TR_30 2H	110.59	0.00	110.23	0.00					255.41	253.55	253.36	253.23	253.03
foenna_02	22.85	Max WS	A TR_30 3H	127.77	0.00	127.44	0.00					255.41	253.83	253.62	253.51	253.30
foenna_02	22.85	Max WS	A TR_30 4H	135.48	0.00	135.24	0.00					255.41	253.96	253.74	253.64	253.42
foenna_02	22.85	Max WS	A TR_30 6H	138.79	0.00	138.65	0.00					255.41	254.01	253.79	253.69	253.47
foenna_02	22.85	Max WS	A TR_30 8H	138.64	0.00	138.50	0.00					255.41	254.01	253.78	253.69	253.47
foenna_02	22.85	Max WS	A TR_30 12H	132.83	0.00	132.76	0.00					255.41	253.92	253.71	253.61	253.39
foenna_02	20.7	Max WS	A TR_200 1H	162.54	0.00	161.80	0.00					254.92	254.03	253.78	253.57	253.29
foenna_02	20.7	Max WS	A TR_200 2H	178.41	0.00	178.12	0.00					254.92	254.45	254.22	254.09	253.83
foenna_02	20.7	Max WS	A TR_200 3H	180.78	0.00	180.72	0.00					254.92	254.64	254.44	254.34	254.12
foenna_02	20.7	Max WS	A TR_200 4H	182.04	0.00	182.02	0.00					254.92	254.73	254.54	254.46	254.24
foenna_02	20.7	Max WS	A TR_200 6H	182.74	0.00	182.73	0.00					254.92	254.77	254.58	254.50	254.29
foenna_02	20.7	Max WS	A TR_200 8H	182.66	0.00	182.66	0.00					254.92	254.77	254.58	254.50	254.28
foenna_02	20.7	Max WS	A TR_200 12H	182.08	0.00	182.07	0.00					254.92	254.75	254.55	254.47	254.25
foenna_02	20.7	Max WS	A TR_30 1H	76.20	0.00	75.72	0.00					254.92	252.60	252.44	252.10	251.93
foenna_02	20.7	Max WS	A TR_30 2H	110.23	0.00	109.66	0.00					254.92	253.23	253.03	252.74	252.53
foenna_02	20.7	Max WS	A TR_30 3H	127.44	0.00	126.96	0.00					254.92	253.51	253.30	253.04	252.80
foenna_02	20.7	Max WS	A TR_30 4H	135.24	0.00	134.85	0.00					254.92	253.64	253.42	253.17	252.92
foenna_02	20.7	Max WS	A TR_30 6H	138.65	0.00	138.41	0.00					254.92	253.69	253.47	253.23	252.98
foenna_02	20.7	Max WS	A TR_30 8H	138.50	0.00	138.30	0.00					254.92	253.69	253.47	253.23	252.98
foenna_02	20.7	Max WS	A TR_30 12H	132.76	0.00	132.62	0.00					254.92	253.61	253.39	253.14	252.90
foenna_02	20.5	Max WS	A TR_200 1H	162.54	0.00	161.80	0.00					254.27	254.03	253.78	253.57	253.29
foenna_02	20.5	Max WS	A TR_200 2H	178.41	0.00	178.12	0.00					254.27	254.45	254.22	254.09	253.83
foenna_02	20.5	Max WS	A TR_200 3H	180.78	0.00	180.72	0.00					254.27	254.64	254.44	254.34	254.12
foenna_02	20.5	Max WS	A TR_200 4H	182.04	0.00	182.02	0.00					254.27	254.73	254.54	254.46	254.24
foenna_02	20.5	Max WS	A TR_200 6H	182.74	0.01	182.73	0.01		6.14	0.02	0.01	254.27	254.77	254.58	254.50	254.29
foenna_02	20.5	Max WS	A TR_200 8H	182.66	0.00	182.66	0.00		4.79	0.01	0.01	254.27	254.77	254.58	254.50	254.28
foenna_02	20.5	Max WS	A TR_200 12H	182.08	0.00	182.07	0.00					254.27	254.75	254.55	254.47	254.25
foenna_02	20.5	Max WS	A TR_30 1H	76.20	0.00	75.72	0.00					254.27	252.60	252.44	252.10	251.93
foenna_02	20.5	Max WS	A TR_30 2H	110.23	0.00	109.66	0.00					254.27	253.23	253.03	252.74	252.53
foenna_02	20.5	Max WS	A TR_30 3H	127.44	0.00	126.96	0.00					254.27	253.51	253.30	253.04	252.80
foenna_02	20.5	Max WS	A TR_30 4H	135.24	0.00	134.85	0.00					254.27	253.64	253.42	253.17	252.92
foenna_02	20.5	Max WS	A TR_30 6H	138.65	0.00	138.41	0.00					254.27	253.69	253.47	253.23	252.98
foenna_02	20.5	Max WS	A TR_30 8H	138.50	0.00	138.30	0.00					254.27	253.69	253.47	253.23	252.98
foenna_02	20.5	Max WS	A TR_30 12H	132.76	0.00	132.62	0.00					254.27	253.61	253.39	253.14	252.90
foenna_02	6.9	Max WS	A TR_200 1H	159.44	0.00	158.99	0.00					252.57	252.08	251.83	251.76	251.49
foenna_02	6.9	Max WS	A TR_200 2H	177.17	0.00	177.17	0.00					252.57	252.64	252.43	252.41	252.17
foenna_02	6.9	Max WS	A TR_200 3H	180.31	0.00	180.30	0.00					252.57	252.74	252.53	252.52	252.29
foenna_02	6.9	Max WS	A TR_200 4H	181.82	0.00	181.82	0.00					252.57	252.78	252.57	252.56	252.33
foenna_02	6.9	Max WS	A TR_200 6H	182.72	0.00	182.71	0.00					252.57	252.78	252.58	252.57	252.34
foenna_02	6.9	Max WS	A TR_200 8H	182.65	0.00	182.65	0.00					252.57	252.78	252.58	252.57	252.34

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)
foenna_02	6.9	Max WS	A TR_200 12H	182.07	0.00	182.07	0.00					252.57	252.78	252.57	252.56	252.33
foenna_02	6.9	Max WS	A TR_30 1H	73.78	0.00	73.30	0.00					252.57	250.64	250.49	250.34	250.19
foenna_02	6.9	Max WS	A TR_30 2H	107.62	0.00	107.15	0.00					252.57	251.30	251.10	250.99	250.79
foenna_02	6.9	Max WS	A TR_30 3H	125.22	0.00	124.85	0.00					252.57	251.59	251.37	251.27	251.05
foenna_02	6.9	Max WS	A TR_30 4H	133.56	0.00	133.27	0.00					252.57	251.72	251.49	251.40	251.16
foenna_02	6.9	Max WS	A TR_30 6H	137.60	0.00	137.40	0.00					252.57	251.78	251.55	251.46	251.22
foenna_02	6.9	Max WS	A TR_30 8H	137.71	0.00	137.56	0.00					252.57	251.78	251.55	251.46	251.22
foenna_02	6.9	Max WS	A TR_30 12H	132.25	0.00	132.16	0.00					252.57	251.70	251.48	251.38	251.15
foenna_02	6.8	Max WS	A TR_200 1H	159.44	0.00	158.99	0.00					252.71	252.08	251.83	251.76	251.49
foenna_02	6.8	Max WS	A TR_200 2H	177.17	0.00	177.17	0.00					252.71	252.64	252.43	252.41	252.17
foenna_02	6.8	Max WS	A TR_200 3H	180.31	0.00	180.30	0.00					252.71	252.74	252.53	252.52	252.29
foenna_02	6.8	Max WS	A TR_200 4H	181.82	0.00	181.82	0.00					252.71	252.78	252.57	252.56	252.33
foenna_02	6.8	Max WS	A TR_200 6H	182.72	0.00	182.71	0.00					252.71	252.78	252.58	252.57	252.34
foenna_02	6.8	Max WS	A TR_200 8H	182.65	0.00	182.65	0.00					252.71	252.78	252.58	252.57	252.34
foenna_02	6.8	Max WS	A TR_200 12H	182.07	0.00	182.07	0.00					252.71	252.78	252.57	252.56	252.33
foenna_02	6.8	Max WS	A TR_30 1H	73.78	0.00	73.30	0.00					252.71	250.64	250.49	250.34	250.19
foenna_02	6.8	Max WS	A TR_30 2H	107.62	0.00	107.15	0.00					252.71	251.30	251.10	250.99	250.79
foenna_02	6.8	Max WS	A TR_30 3H	125.22	0.00	124.85	0.00					252.71	251.59	251.37	251.27	251.05
foenna_02	6.8	Max WS	A TR_30 4H	133.56	0.00	133.27	0.00					252.71	251.72	251.49	251.40	251.16
foenna_02	6.8	Max WS	A TR_30 6H	137.60	0.00	137.40	0.00					252.71	251.78	251.55	251.46	251.22
foenna_02	6.8	Max WS	A TR_30 8H	137.71	0.00	137.56	0.00					252.71	251.78	251.55	251.46	251.22
foenna_02	6.8	Max WS	A TR_30 12H	132.25	0.00	132.16	0.00					252.71	251.70	251.48	251.38	251.15
foenna_02	3.9	Max WS	A TR_200 1H	158.97	0.00	158.55	0.00					252.61	251.74	251.48	251.27	251.16
foenna_02	3.9	Max WS	A TR_200 2H	177.10	0.00	177.05	0.00					252.61	251.97	251.68	251.50	251.39
foenna_02	3.9	Max WS	A TR_200 3H	180.23	0.00	180.20	0.00					252.61	252.01	251.72	251.54	251.42
foenna_02	3.9	Max WS	A TR_200 4H	181.78	0.00	181.74	0.00					252.61	252.03	251.73	251.56	251.44
foenna_02	3.9	Max WS	A TR_200 6H	182.69	0.00	182.67	0.00					252.61	252.04	251.74	251.57	251.45
foenna_02	3.9	Max WS	A TR_200 8H	182.64	0.00	182.63	0.00					252.61	252.04	251.74	251.57	251.45
foenna_02	3.9	Max WS	A TR_200 12H	182.07	0.00	182.06	0.00					252.61	252.03	251.74	251.56	251.44
foenna_02	3.9	Max WS	A TR_30 1H	73.30	0.00	72.82	0.00					252.61	250.33	250.20	249.91	249.86
foenna_02	3.9	Max WS	A TR_30 2H	107.12	0.00	106.65	0.00					252.61	250.98	250.79	250.56	250.48
foenna_02	3.9	Max WS	A TR_30 3H	124.83	0.00	124.44	0.00					252.61	251.26	251.05	250.82	250.74
foenna_02	3.9	Max WS	A TR_30 4H	133.27	0.00	132.94	0.00					252.61	251.38	251.16	250.95	250.85
foenna_02	3.9	Max WS	A TR_30 6H	137.38	0.00	137.18	0.00					252.61	251.44	251.22	251.00	250.91
foenna_02	3.9	Max WS	A TR_30 8H	137.55	0.00	137.39	0.00					252.61	251.45	251.22	251.01	250.91
foenna_02	3.9	Max WS	A TR_30 12H	132.16	0.00	132.06	0.00					252.61	251.37	251.15	250.93	250.84
foenna_02	3.8	Max WS	A TR_200 1H	158.97	0.00	158.55	0.00					252.69	251.74	251.48	251.27	251.16
foenna_02	3.8	Max WS	A TR_200 2H	177.10	0.00	177.05	0.00					252.69	251.97	251.68	251.50	251.39
foenna_02	3.8	Max WS	A TR_200 3H	180.23	0.00	180.20	0.00					252.69	252.01	251.72	251.54	251.42
foenna_02	3.8	Max WS	A TR_200 4H	181.78	0.00	181.74	0.00					252.69	252.03	251.73	251.56	251.44
foenna_02	3.8	Max WS	A TR_200 6H	182.69	0.00	182.67	0.00					252.69	252.04	251.74	251.57	251.45
foenna_02	3.8	Max WS	A TR_200 8H	182.64	0.00	182.63	0.00					252.69	252.04	251.74	251.57	251.45
foenna_02	3.8	Max WS	A TR_200 12H	182.07	0.00	182.06	0.00					252.69	252.03	251.74	251.56	251.44
foenna_02	3.8	Max WS	A TR_30 1H	73.30	0.00	72.82	0.00					252.69	250.33	250.20	249.91	249.86
foenna_02	3.8	Max WS	A TR_30 2H	107.12	0.00	106.65	0.00					252.69	250.98	250.79	250.56	250.48
foenna_02	3.8	Max WS	A TR_30 3H	124.83	0.00	124.44	0.00					252.69	251.26	251.05	250.82	250.74
foenna_02	3.8	Max WS	A TR_30 4H	133.27	0.00	132.94	0.00					252.69	251.38	251.16	250.95	250.85
foenna_02	3.8	Max WS	A TR_30 6H	137.38	0.00	137.18	0.00					252.69	251.44	251.22	251.00	250.91
foenna_02	3.8	Max WS	A TR_30 8H	137.55	0.00	137.39	0.00					252.69	251.45	251.22	251.01	250.91
foenna_02	3.8	Max WS	A TR_30 12H	132.16	0.00	132.06	0.00					252.69	251.37	251.15	250.93	250.84
foenna_02	0.99	Max WS	A TR_200 1H	158.55	0.00	158.37	0.00					252.37	251.27	251.16	251.01	250.82
foenna_02	0.99	Max WS	A TR_200 2H	177.05	0.00	177.02	0.00					252.37	251.50	251.39	251.23	251.03
foenna_02	0.99	Max WS	A TR_200 3H	180.20	0.00	180.18	0.00					252.37	251.54	251.42	251.27	251.07
foenna_02	0.99	Max WS	A TR_200 4H	181.74	0.00	181.73	0.00					252.37	251.56	251.44	251.29	251.09
foenna_02	0.99	Max WS	A TR_200 6H	182.67	0.00	182.67	0.00					252.37	251.57	251.45	251.30	251.10
foenna_02	0.99	Max WS	A TR_200 8H	182.63	0.00	182.63	0.00					252.37	251.57	251.45	251.30	251.10
foenna_02	0.99	Max WS	A TR_200 12H	182.06	0.00	182.06	0.00					252.37	251.56	251.44	251.29	251.09
foenna_02	0.99	Max WS	A TR_30 1H	72.82	0.00	72.69	0.00					252.37	249.91	249.86	249.67	249.55
foenna_02	0.99	Max WS	A TR_30 2H	106.65	0.00	106.43	0.00					252.37	250.56	250.48	250.30	250.16
foenna_02	0.99	Max WS	A TR_30 3H	124.44	0.00	124.24	0.00					252.37	250.82	250.74	250.57	250.40
foenna_02	0.99	Max WS	A TR_30 4H	132.94	0.00	132.80	0.00					252.37	250.95	250.85	250.68	250.52
foenna_02	0.99	Max WS	A TR_30 6H	137.18	0.00	137.07	0.00					252.37	251.00	250.91	250.74	250.57
foenna_02	0.99	Max WS	A TR_30 8H	137.39	0.00	137.30	0.00					252.37	251.01	250.91	250.74	250.57
foenna_02	0.99	Max WS	A TR_30 12H	132.06	0.00	132.00	0.00					252.37	250.93	250.84	250.67	250.51
foenna_02	0.98	Max WS	A TR_200 1H	158.55	0.00	158.37	0.00					252.66	251.27	251.16	251.01	250.82
foenna_02	0.98	Max WS	A TR_200 2H	177.05	0.00	177.02	0.00					252.66	251.50	251.39	251.23	251.03
foenna_02	0.98	Max WS	A TR_200 3H	180.20	0.00	180.18	0.00					252.66	251.54	251.42	251.27	251.07
foenna_02	0.98	Max WS	A TR_200 4H	181.74	0.00	181.73	0.00					252.66	251.56	251.44	251.29	251.09
foenna_02	0.98	Max WS	A TR_200 6H	182.67	0.00	182.67	0.00					252.66	251.57	251.45	251.30	251.10
foenna_02	0.98	Max WS	A TR_200 8H	182.63	0.00	182.63	0.00					252.66	251.57	251.45	251.30	251.10
foenna_02	0.98	Max WS	A TR_200 12H	182.06	0.00	182.06	0.00					252.66	251.56	251.44	251.29	251.09
foenna_02	0.98	Max WS	A TR_30 1H	72.82	0.00	72.69	0.00					252.66	249.91	249.86	249.67	249.55
foenna_02	0.98	Max WS	A TR_30 2H	106.65	0.00	106.43	0.00					252.66	250.56	250.48	250.30	250.16
foenna_02	0.98	Max WS	A TR_30 3H	124.44	0.00	124.24	0.00					252.66	250.82	250.74	250.57	250.40
foenna_02	0.98	Max WS	A TR_30 4H	132.94	0.00	132.80	0.00					252.66	250.95	250.85	250.68	250.52
foenna_02	0.98	Max WS	A TR_30 6H	137.18	0.00	137.07	0.00					252.66	251.00	250.91	250.74	250.57
foenna_02	0.98	Max WS	A TR_30 8H	137.39	0.00	137.30	0.00					252.66	251.01	250.91	250.74	250.57
foenna_02	0.98	Max WS	A TR_30 12H	132.06	0.00	132.00	0.00					252.66	250.93	250.84	250.67	250.51

FOSSO BAREGNO

1) TR_30 4H 2) TR_200 4H

Baregno unico

N.B. in grigio sono indicati gli sfioratori laterali in destra idrografica

Legend

- WS Max WS - TR_200 4H
- WS Max WS - TR_30 4H
- Ground

Elevation (m)

270
260
250
240
230

1.4* 1.8* 2.2 2.6* 03 3.4* 3.8* 4.16666* 4.5* 4.83333* 5.5 6.4* 6.8* 7.2* 7.6* 08 8.3333* 8.66666* 09 9.5 10.1666* 10.5* 10.8333* 11.1428* 11.4285* 11.7142* 12 12.5* 13 13.3333* 13.6666* 14 14.4* 14.8* 16.25* 16.75* 17.3333* 18 18.25* 18.5* 18.75 19 19.3333* 19.6666* 20 20.3333* 20.6666* 21 21.4* 21.8* 22.2* 22.6* 23 23.3333* 23.6666* 24 25.1428* 25.4285* 25.7142* 26 26.4 26.8* 27.25* 27.75* 28.2* 28.6* 29 29.4 29.8* 30.1666* 30.5* 30.8333* 31.5 32.4666* 32.7333* 33 33.4* 33.8* 34.2* 34.6* 35

0 500 1000 1500 2000 2500 3000

Main Channel Distance (m)

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

1) TR_30 4H 2) TR_200 4H

Baregno unico

N.B. in grigio sono indicati gli sfioratori laterali in sinistra idrografica

Legend

WS Max WS - TR_200 4H

WS Max WS - TR_30 4H

Ground

Elevation (m)

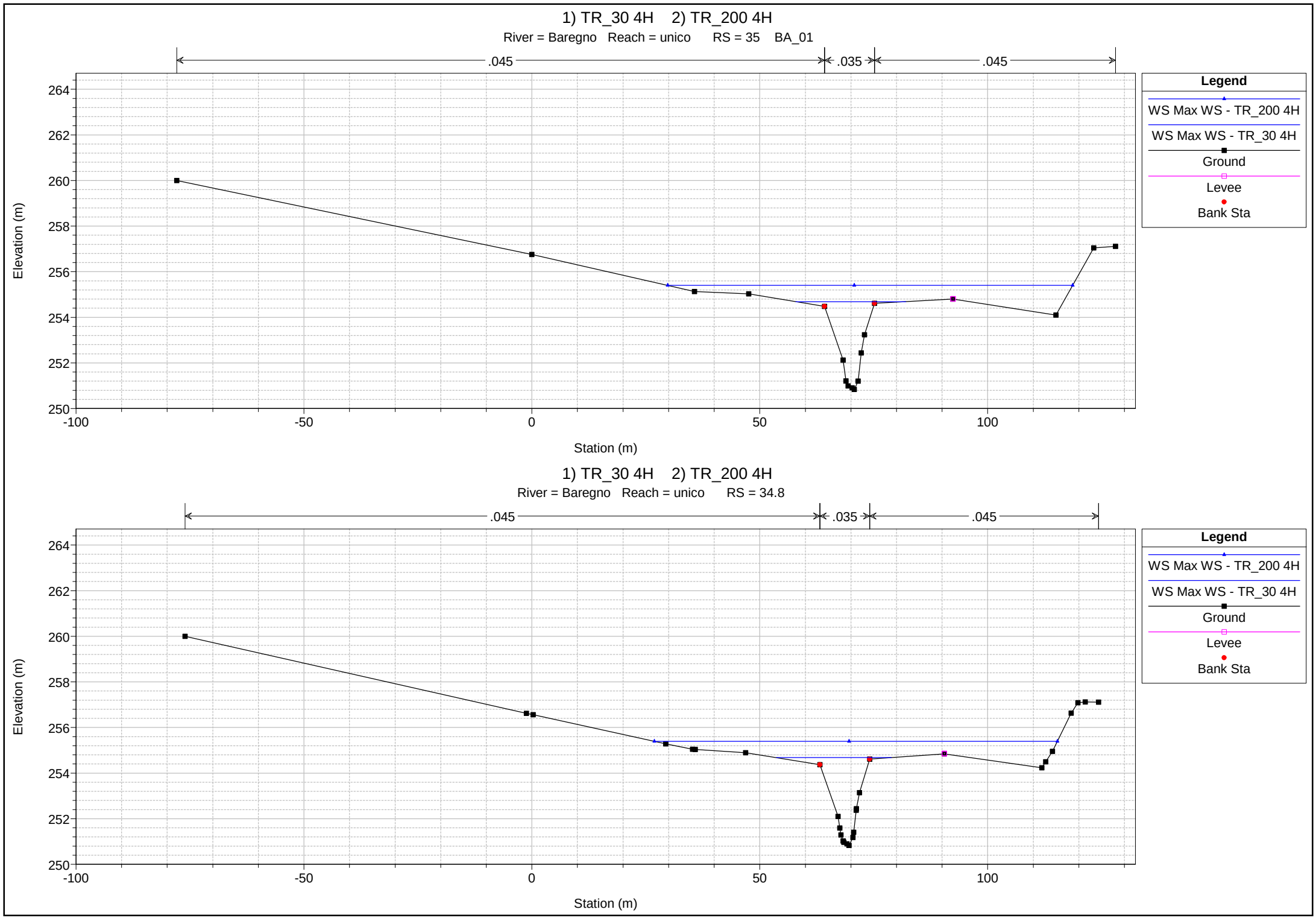
270
260
250
240
230

1.4* 1.8* 2.2 2.6* 03 3.4* 3.8* 4.16666* 4.5* 4.83333* 5.5 6.4* 6.8* 7.2* 7.6* 08 8.33333* 8.66666* 09 9.5 10.1666* 10.5* 10.8333* 11.1428* 11.4285* 11.7142* 12 12.5* 13 13.3333* 13.6666* 14 14.4* 14.8* 16.25* 16.75* 17.3333* 18 18.25* 18.5* 18.75 19 19.3333* 19.6666* 20 20.3333* 20.6666* 21 21.4* 21.8* 22.2* 22.6* 23 23.3333* 23.6666* 24 25.1428* 25.4285* 25.7142* 26 26.4 26.8* 27.25* 27.75* 28.2* 28.6* 29 29.4 29.8* 30.1666* 30.5* 30.8333* 31.5 32.4666* 32.7333* 33 33.4* 33.8* 34.2* 34.6* 35

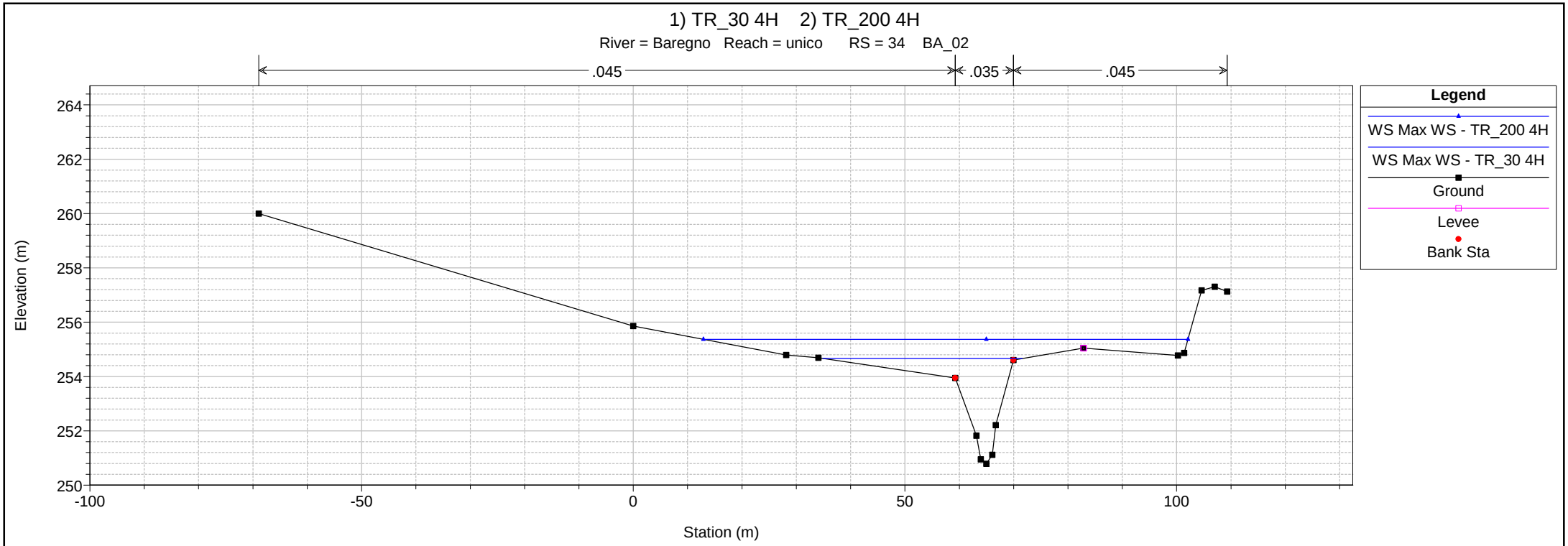
0 500 1000 1500 2000 2500 3000

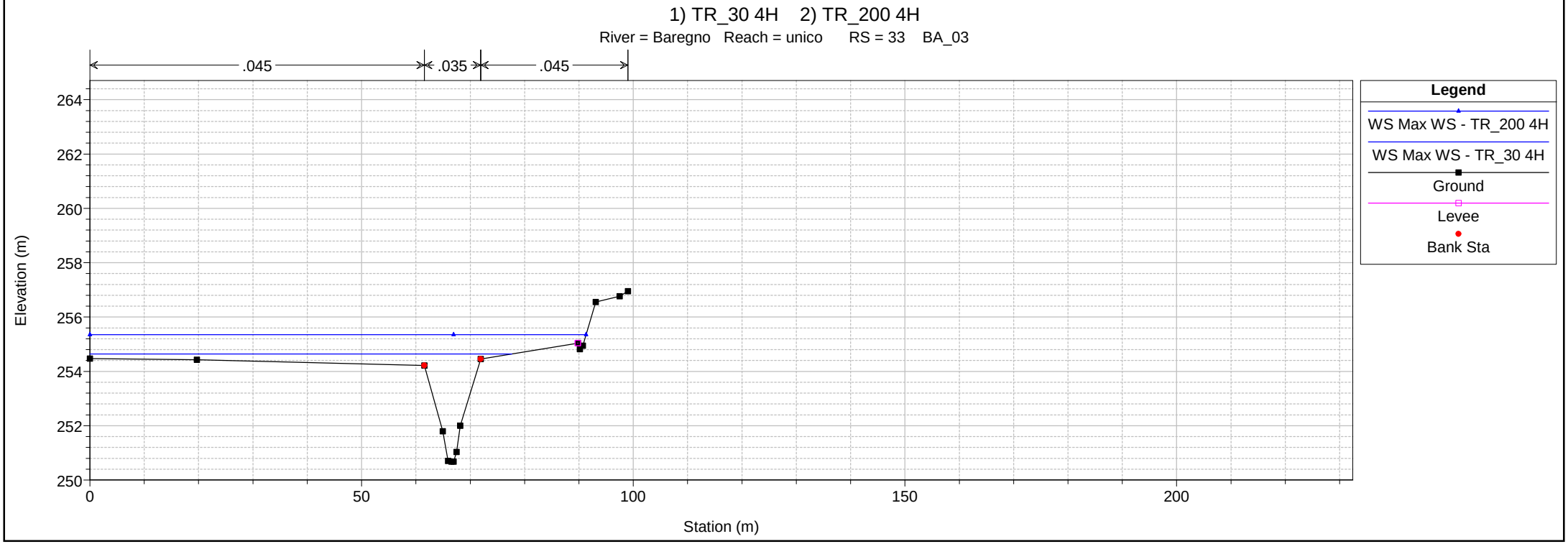
Main Channel Distance (m)

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

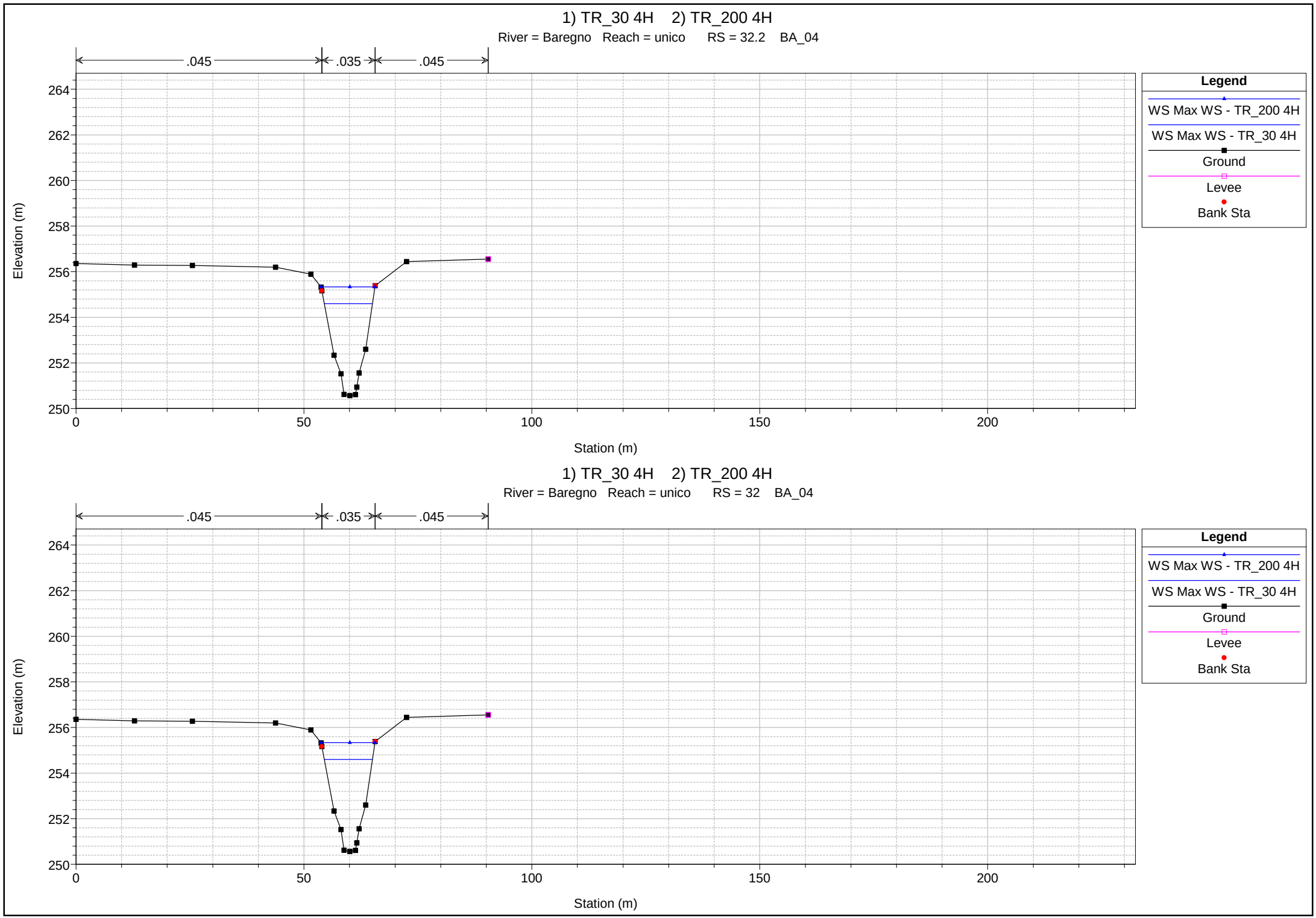


1 cm Horiz. = 10 m 1 cm Vert. = 2 m

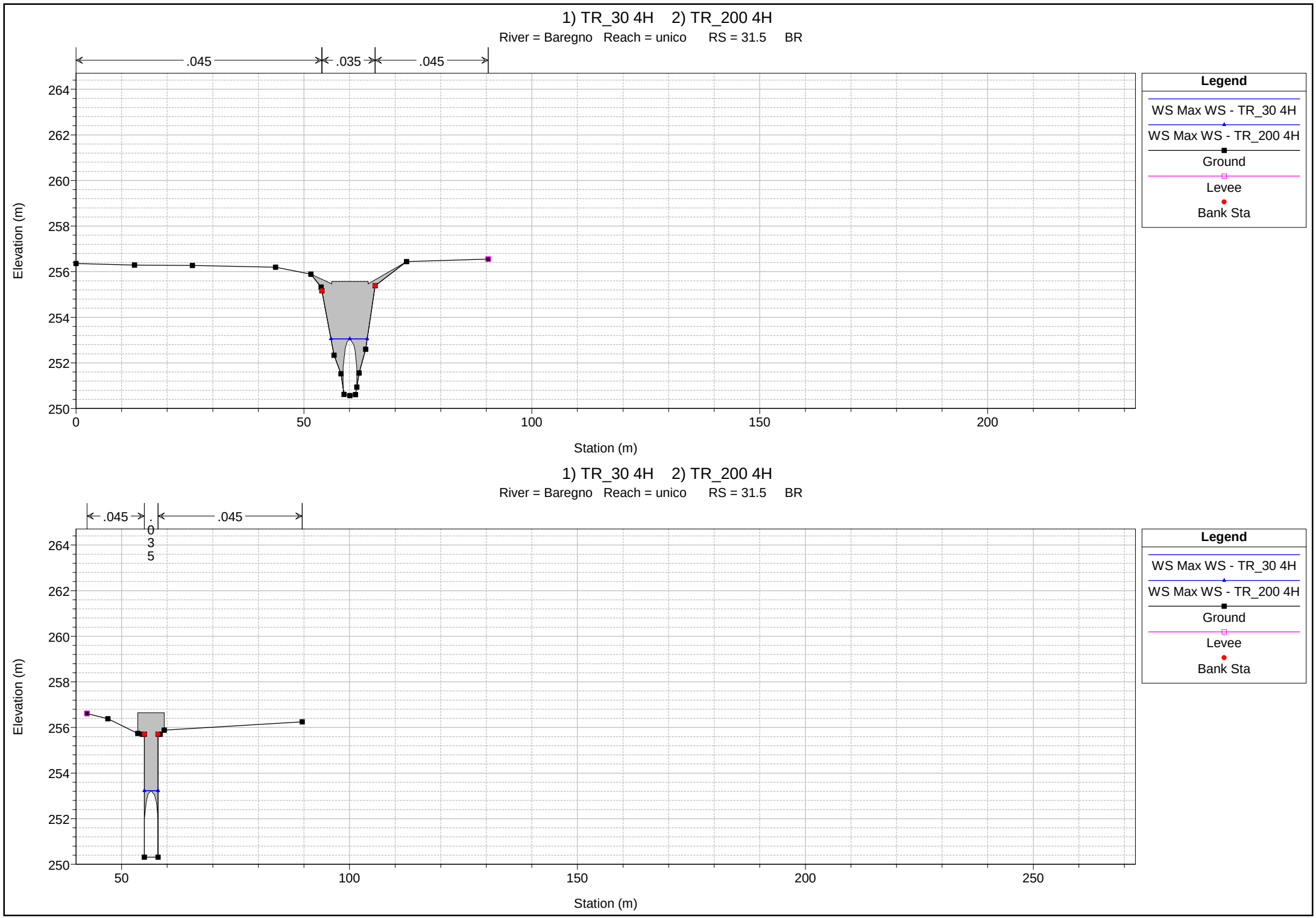




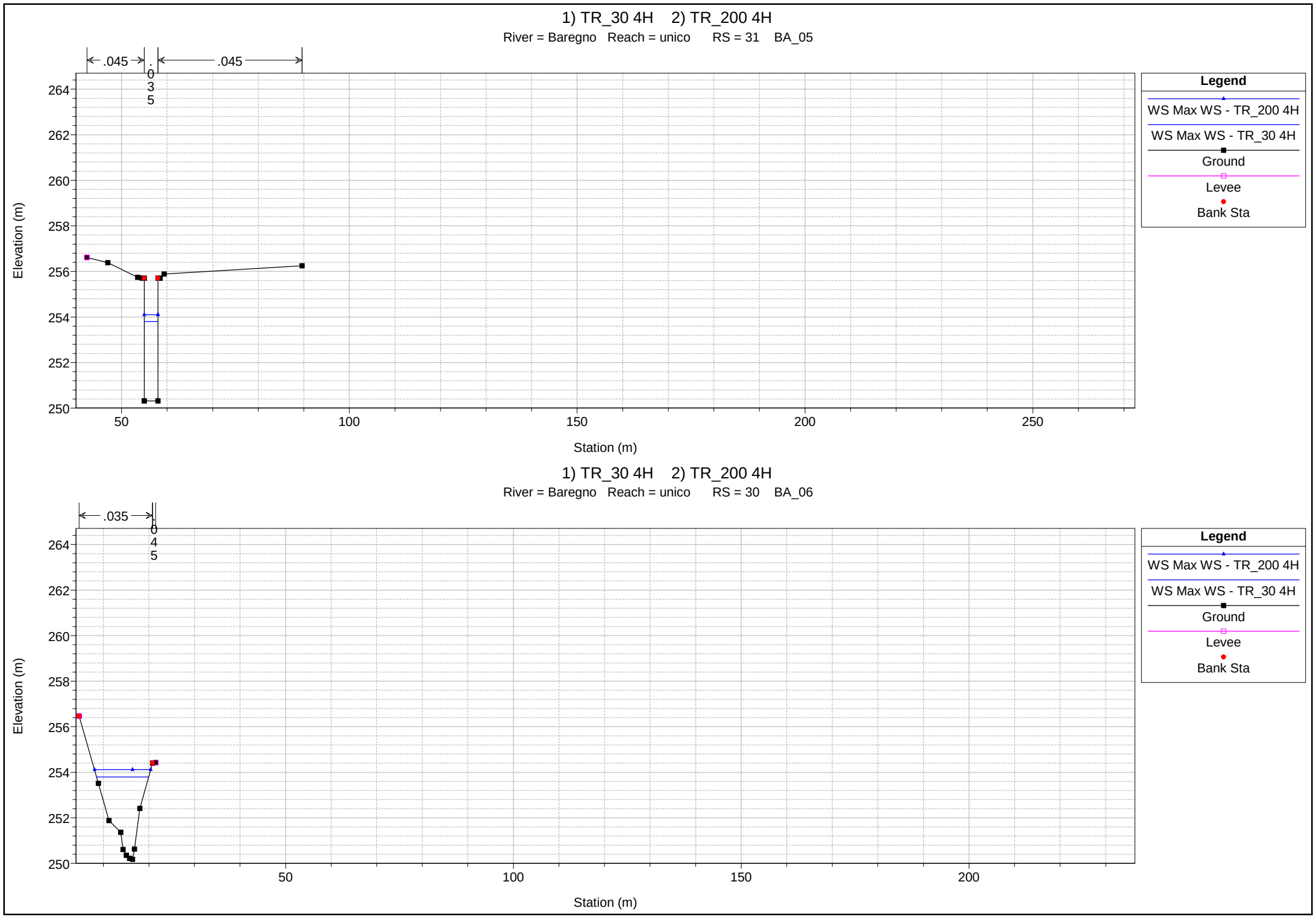
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



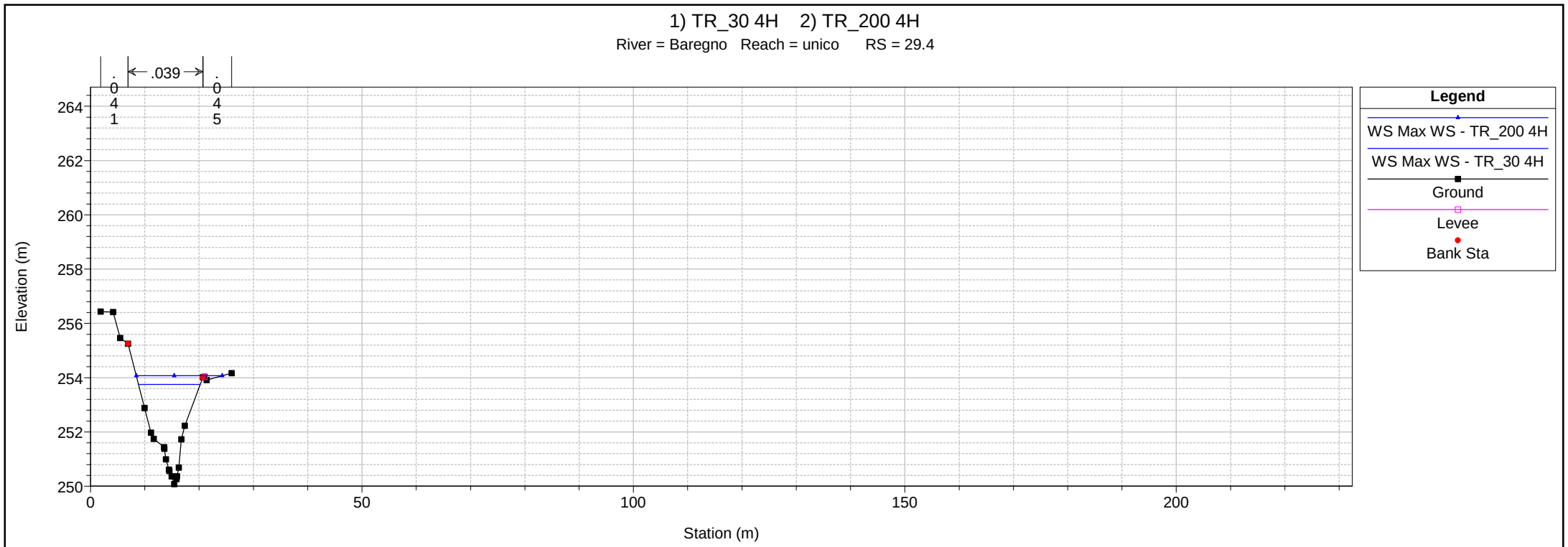
1 cm Horiz. = 10 m 1 cm Vert. = 2 m

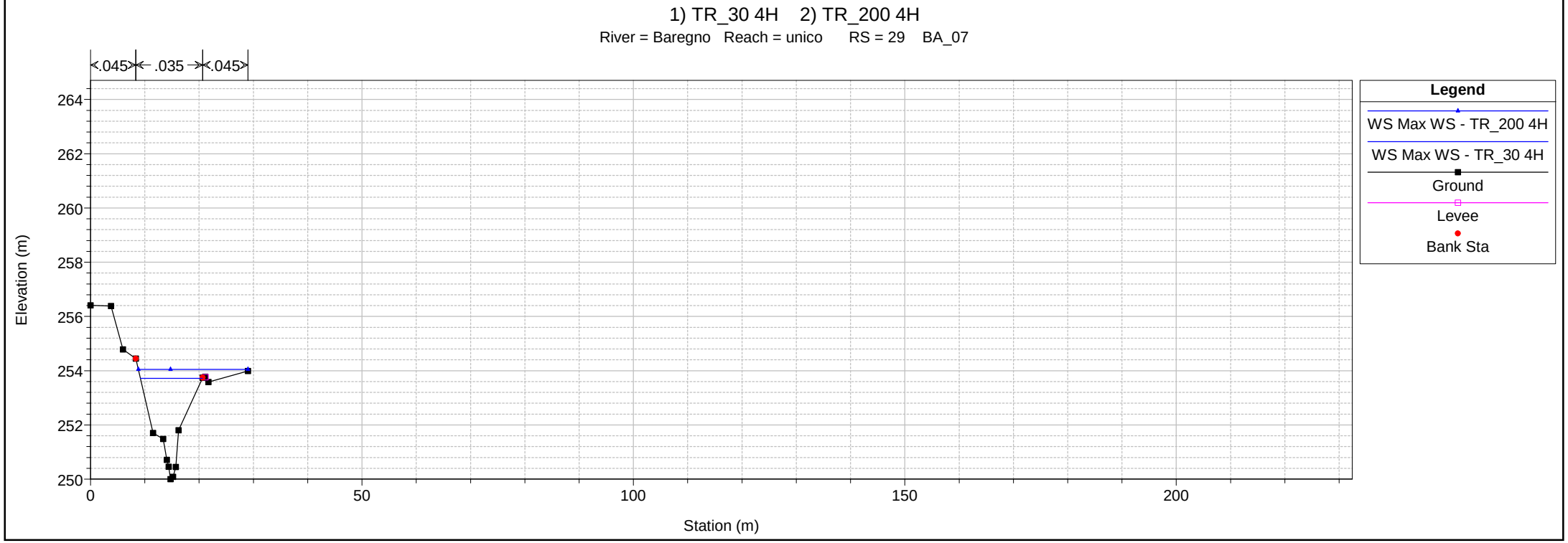


1 cm Horiz. = 10 m 1 cm Vert. = 2 m

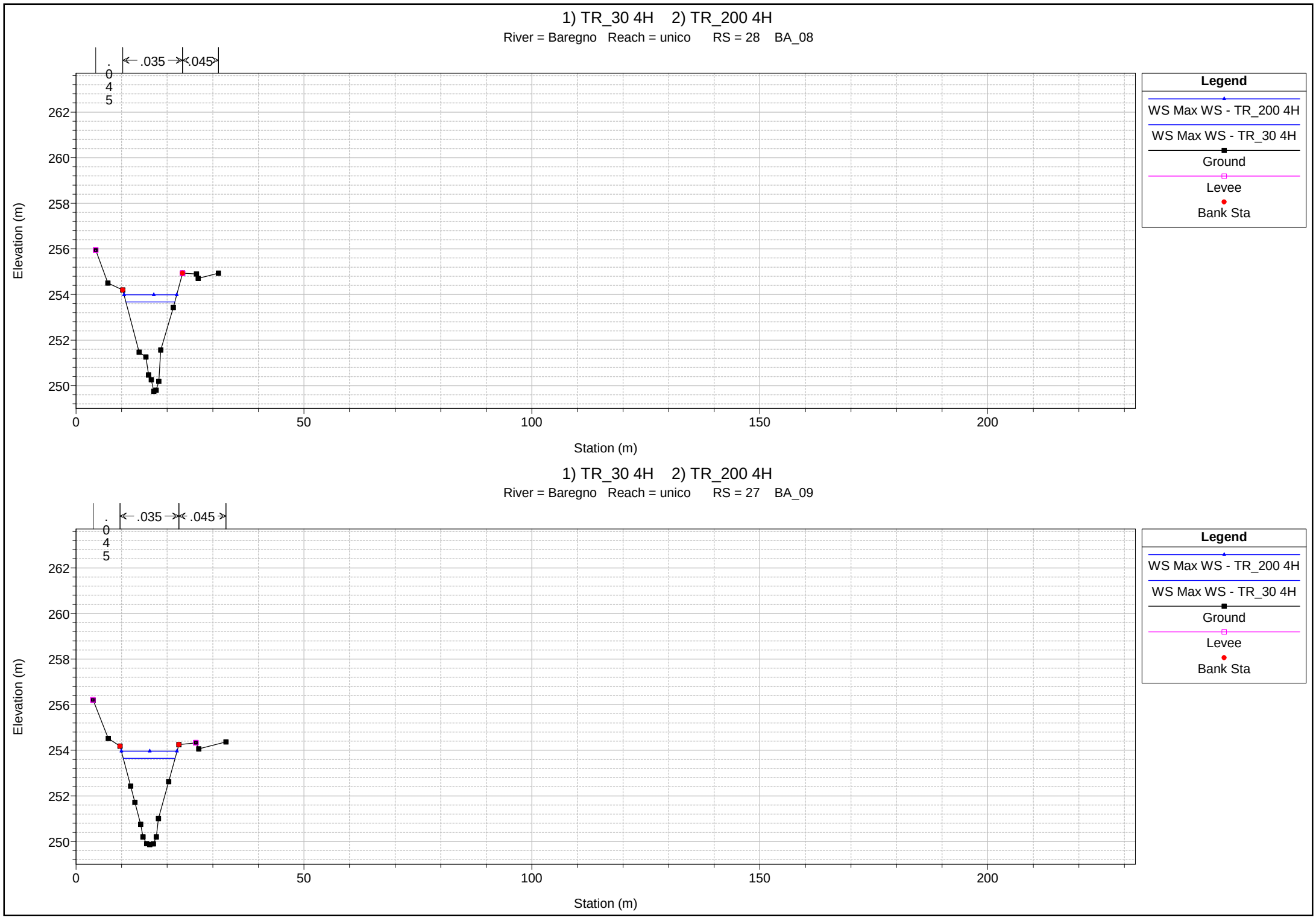


1 cm Horiz. = 10 m 1 cm Vert. = 2 m

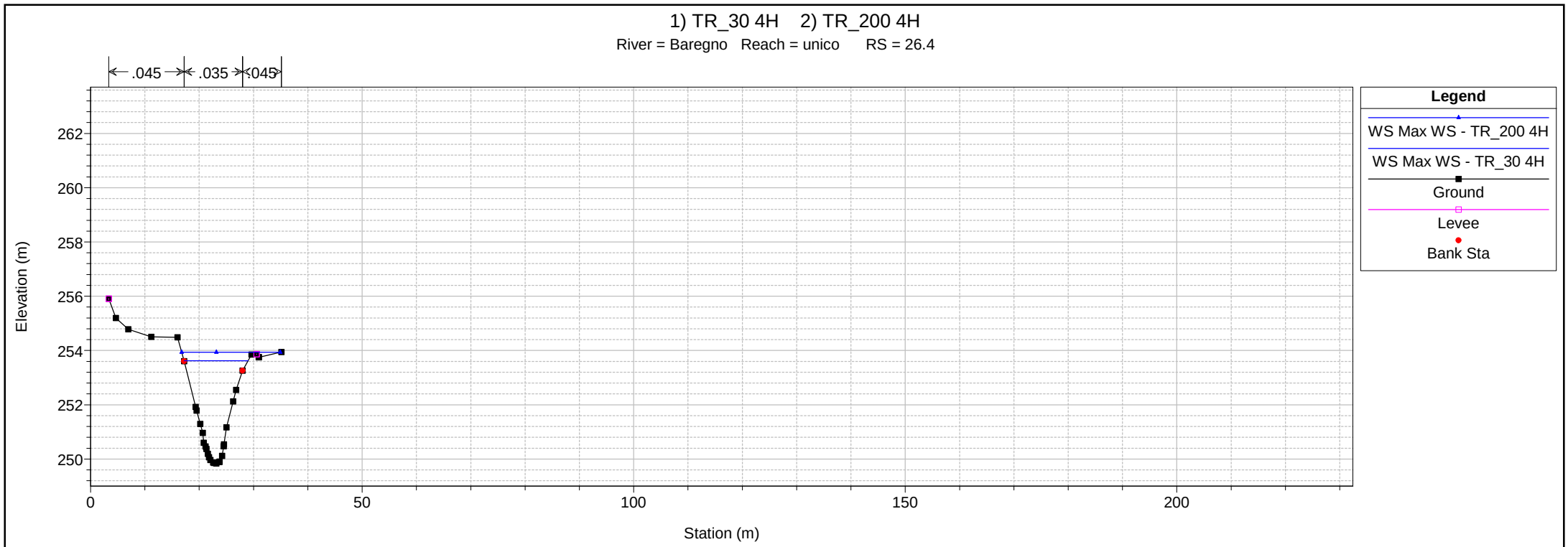


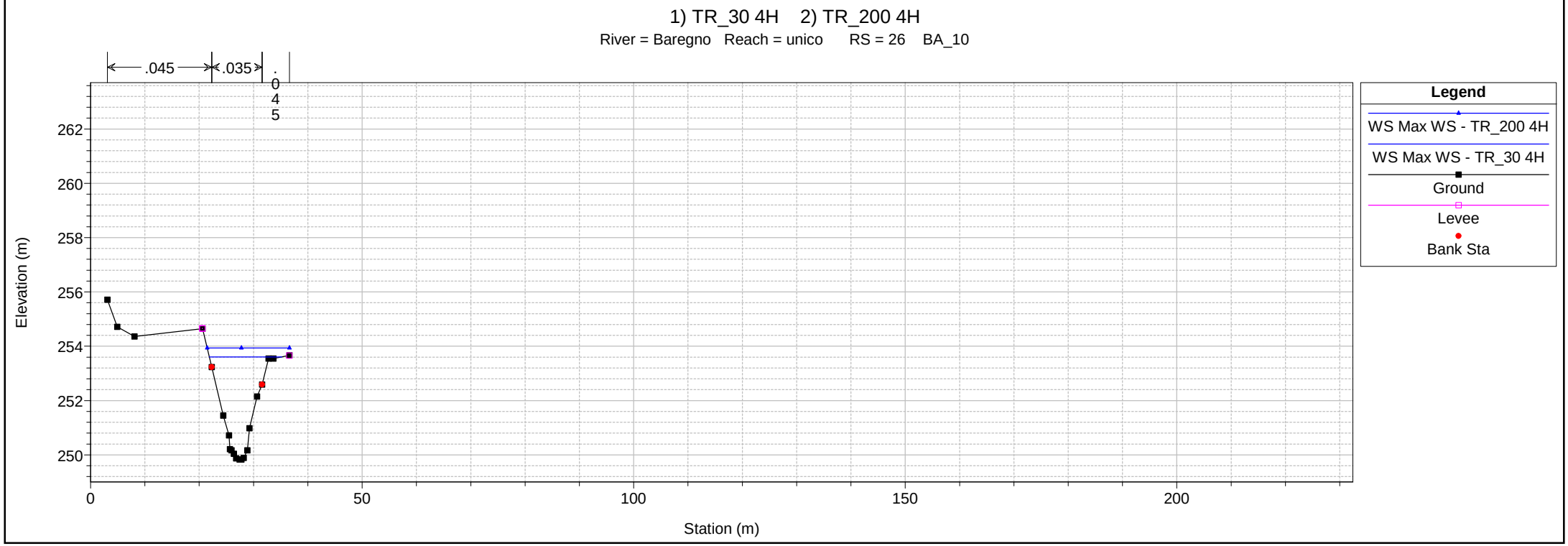


1 cm Horiz. = 10 m 1 cm Vert. = 2 m

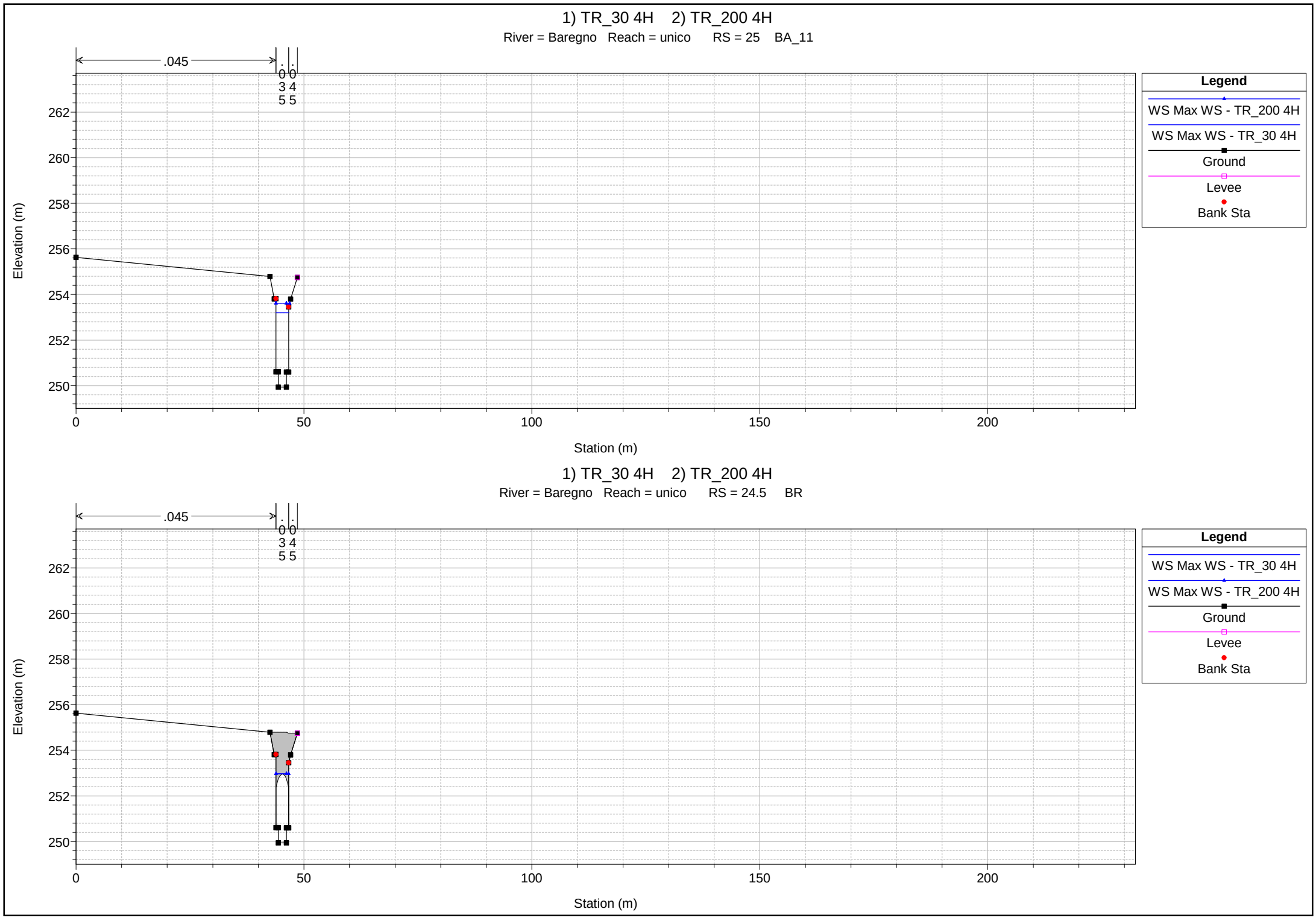


1 cm Horiz. = 10 m 1 cm Vert. = 2 m

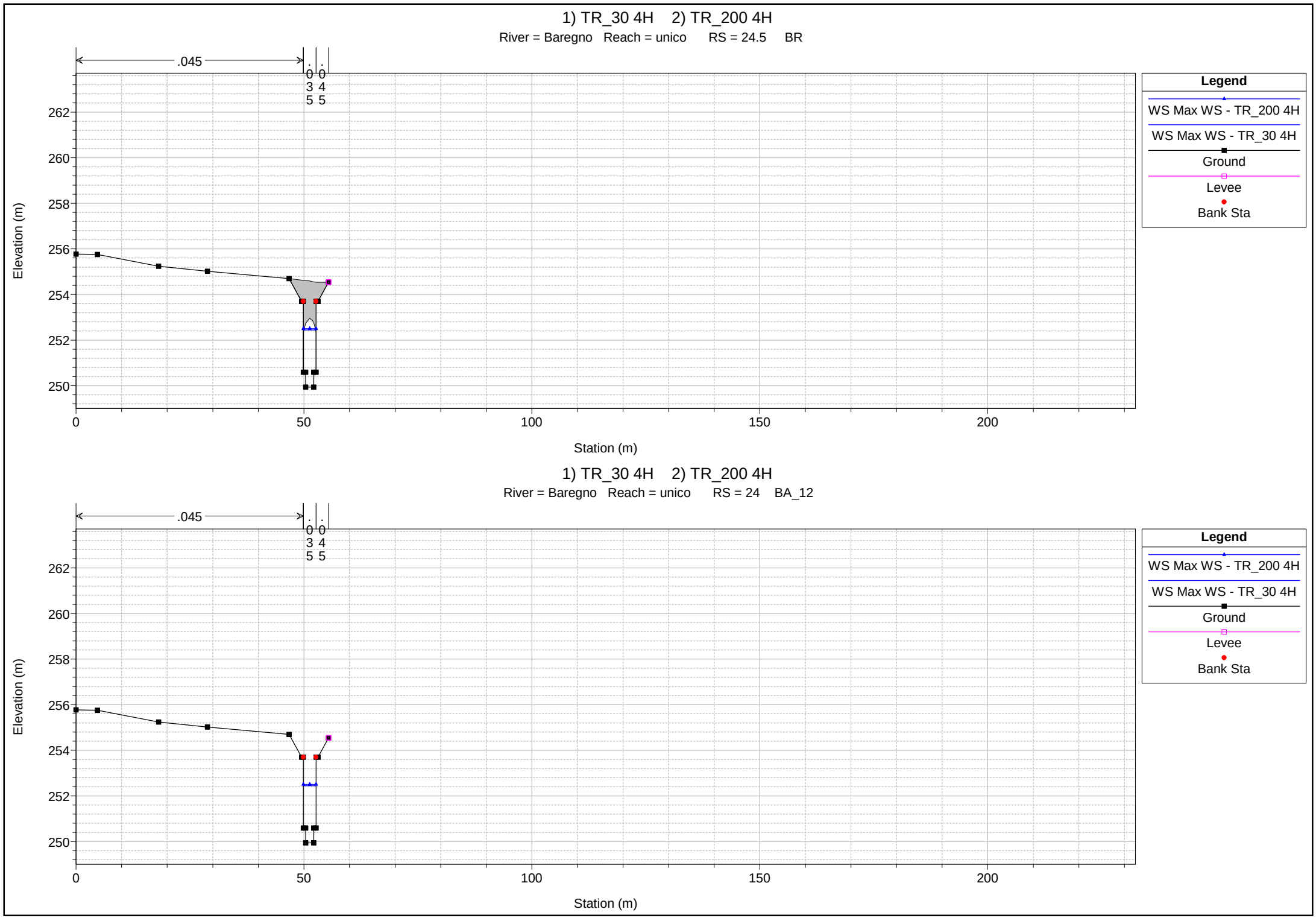




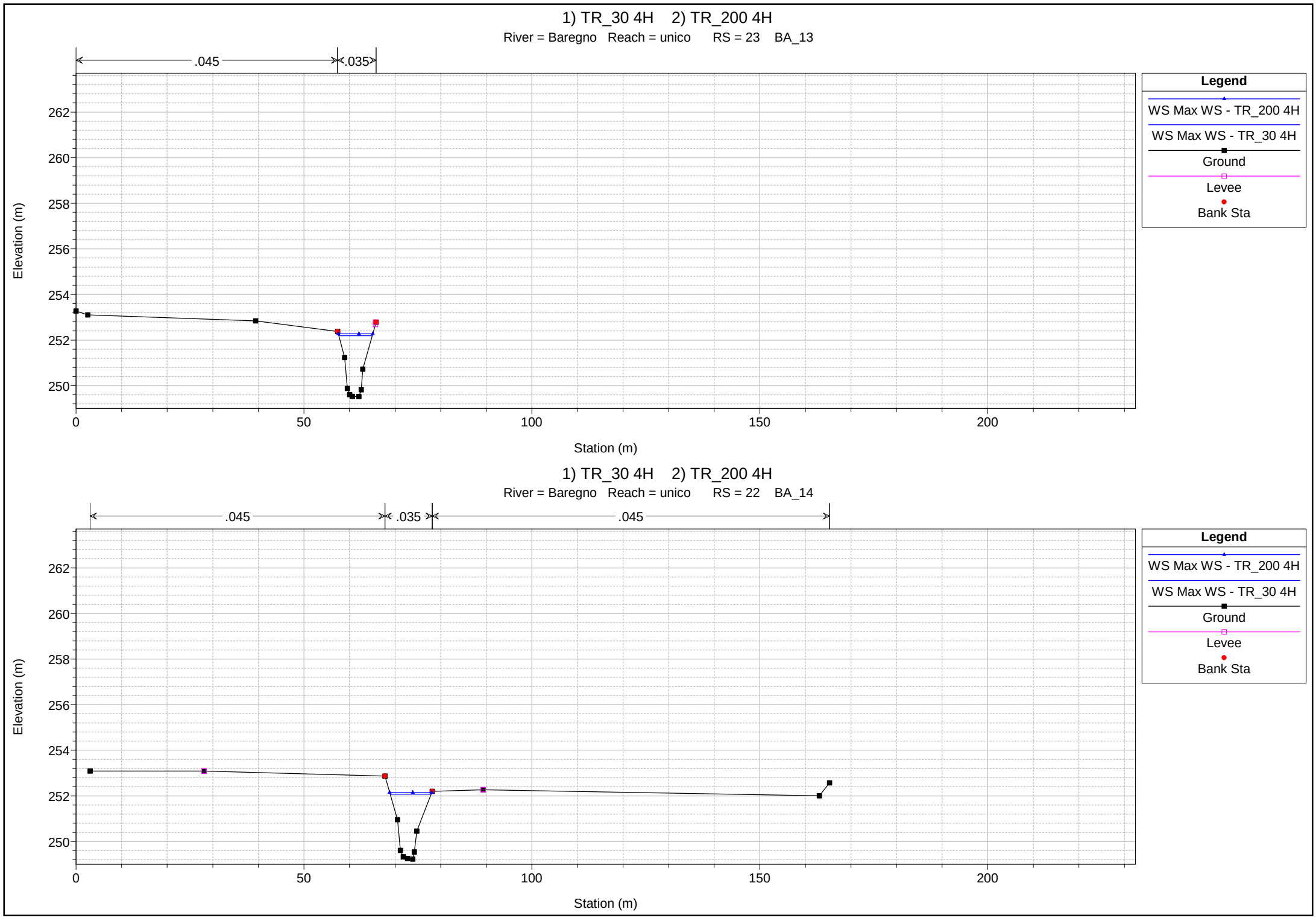
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



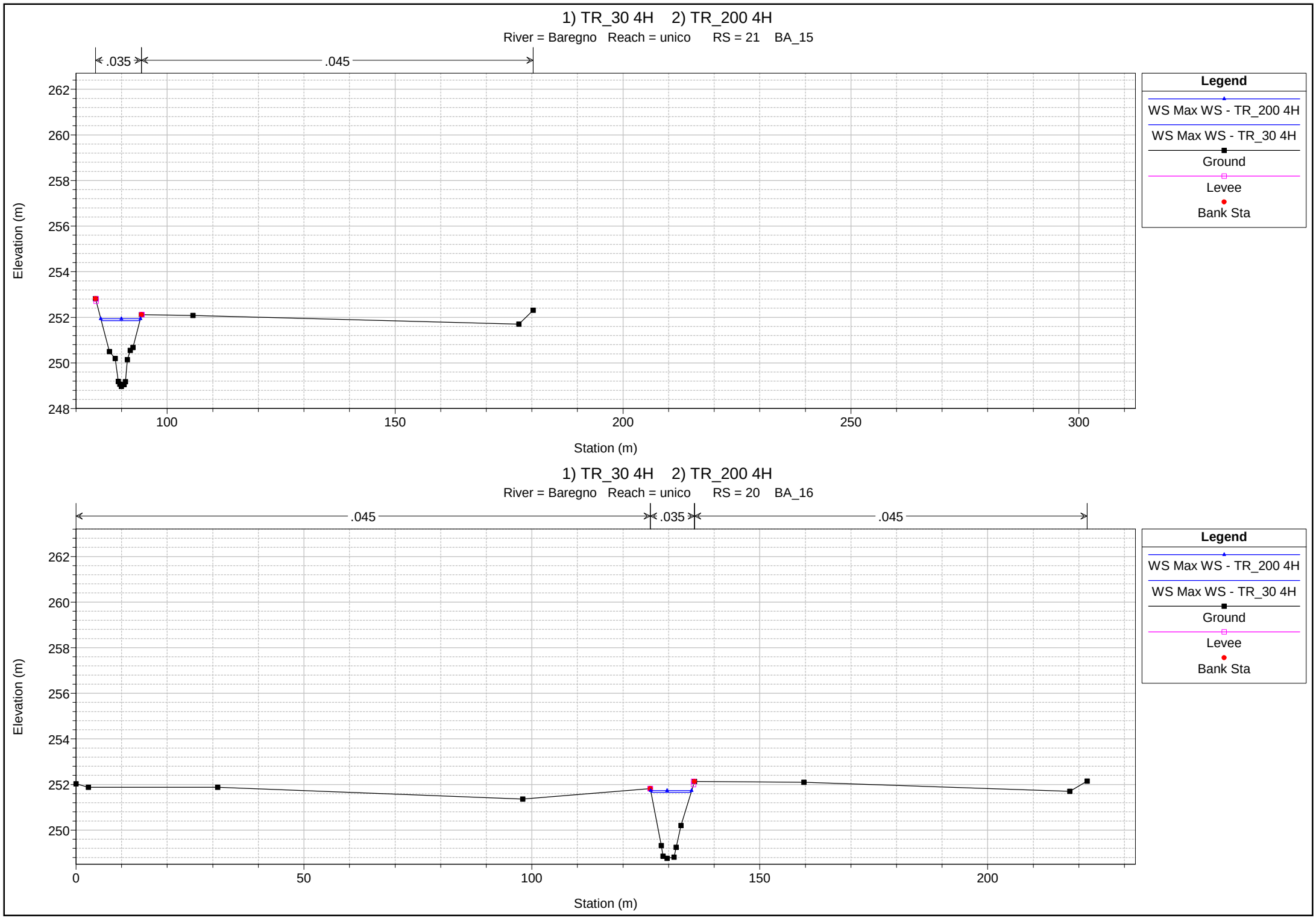
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



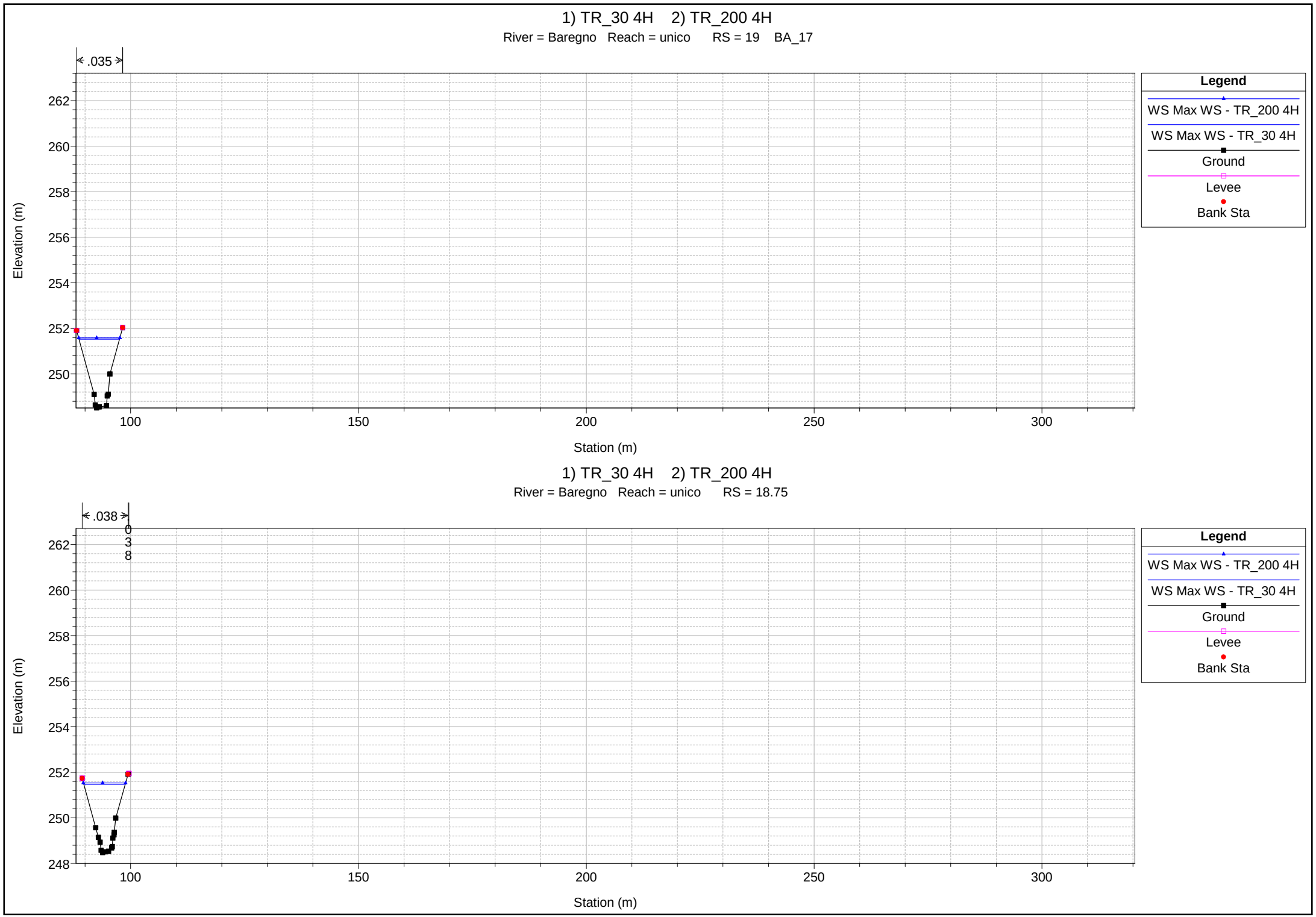
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



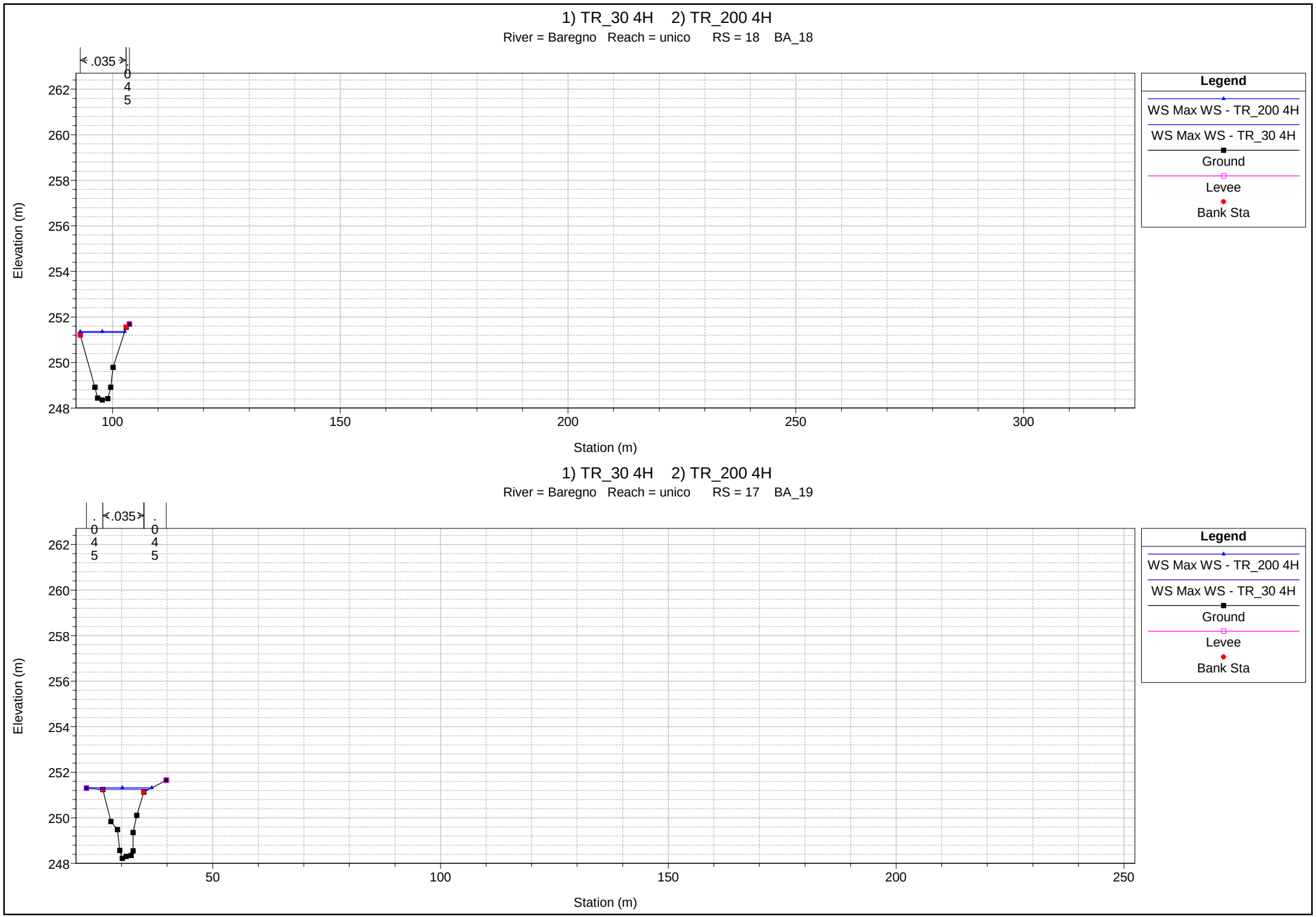
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



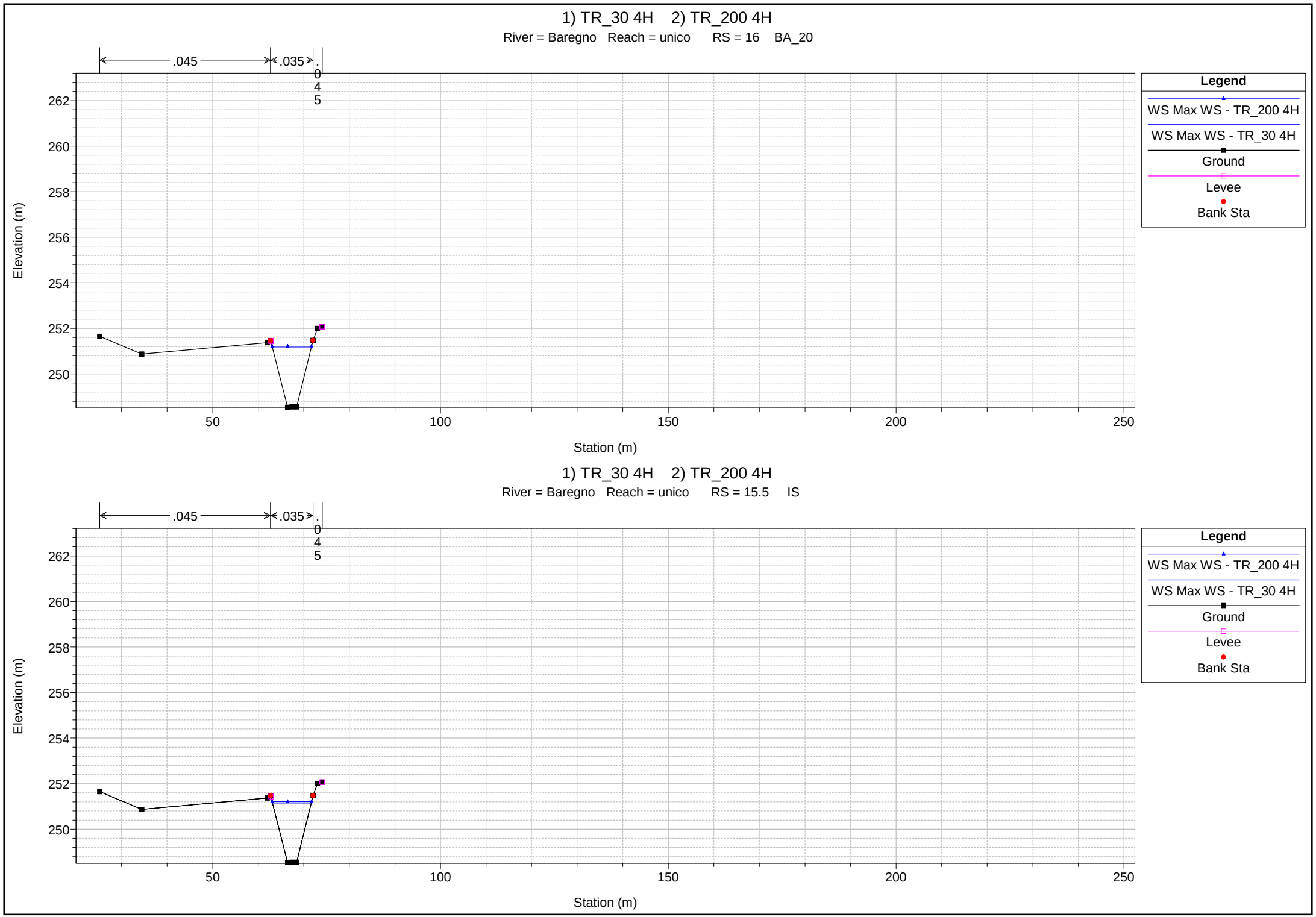
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



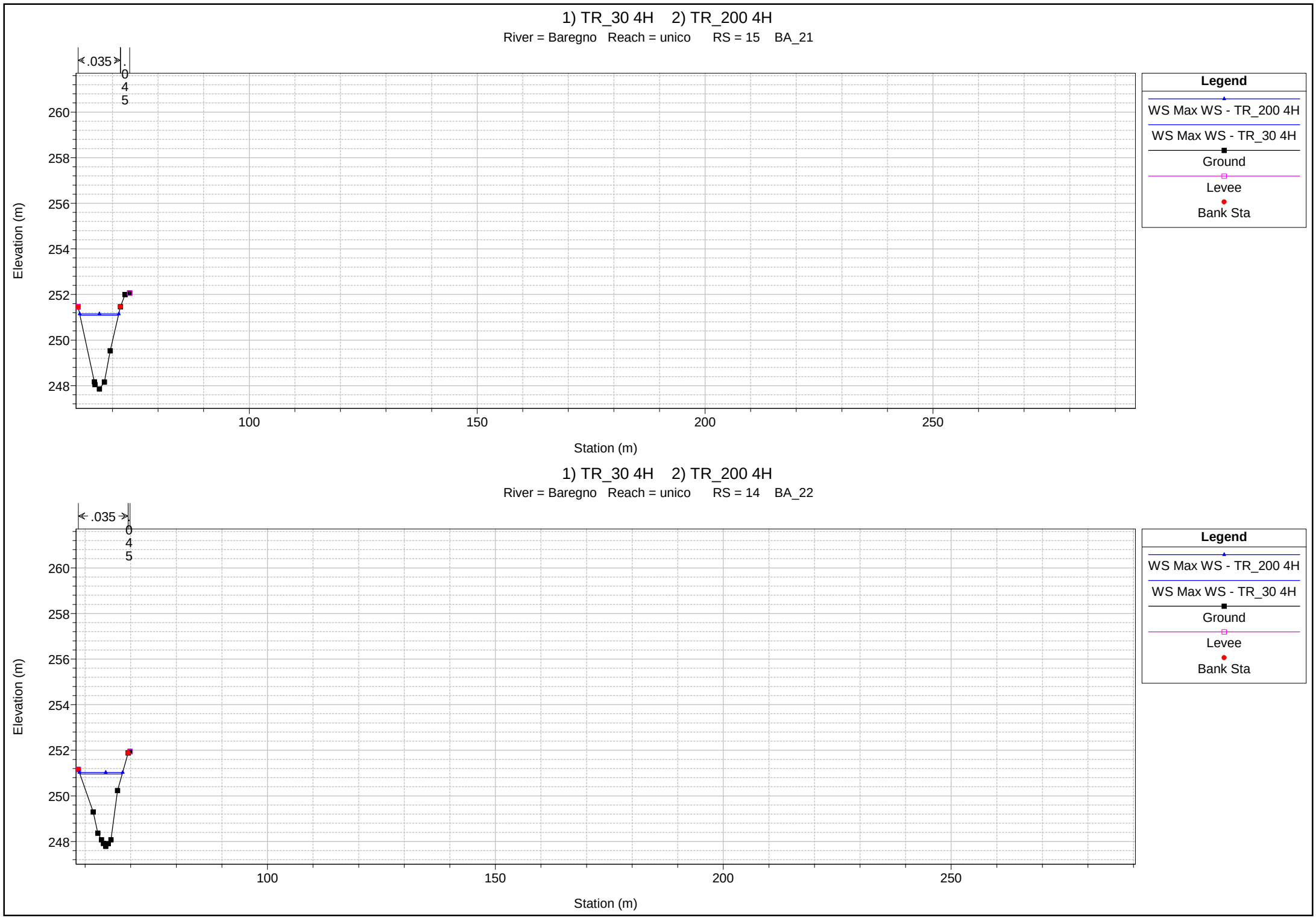
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



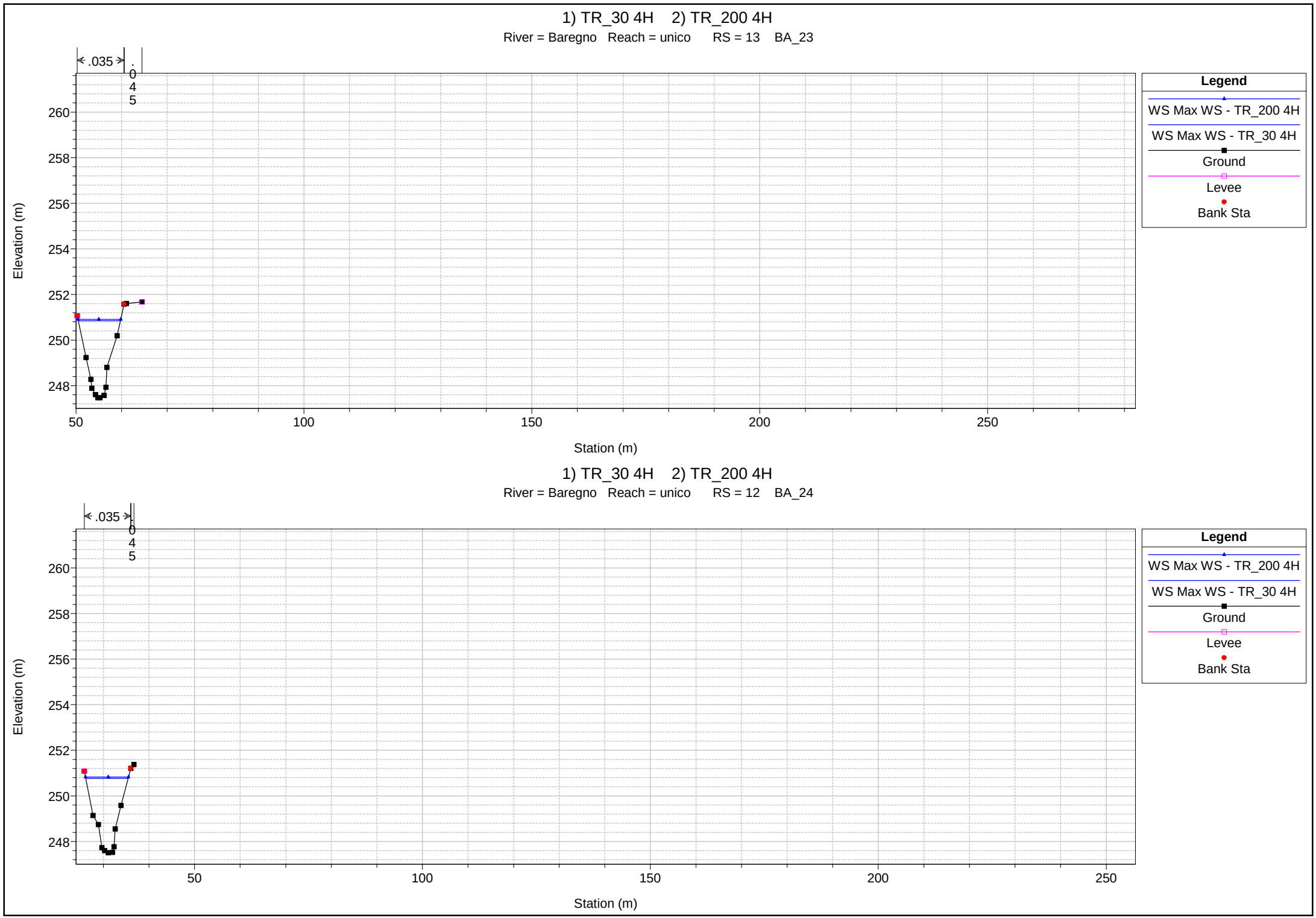
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



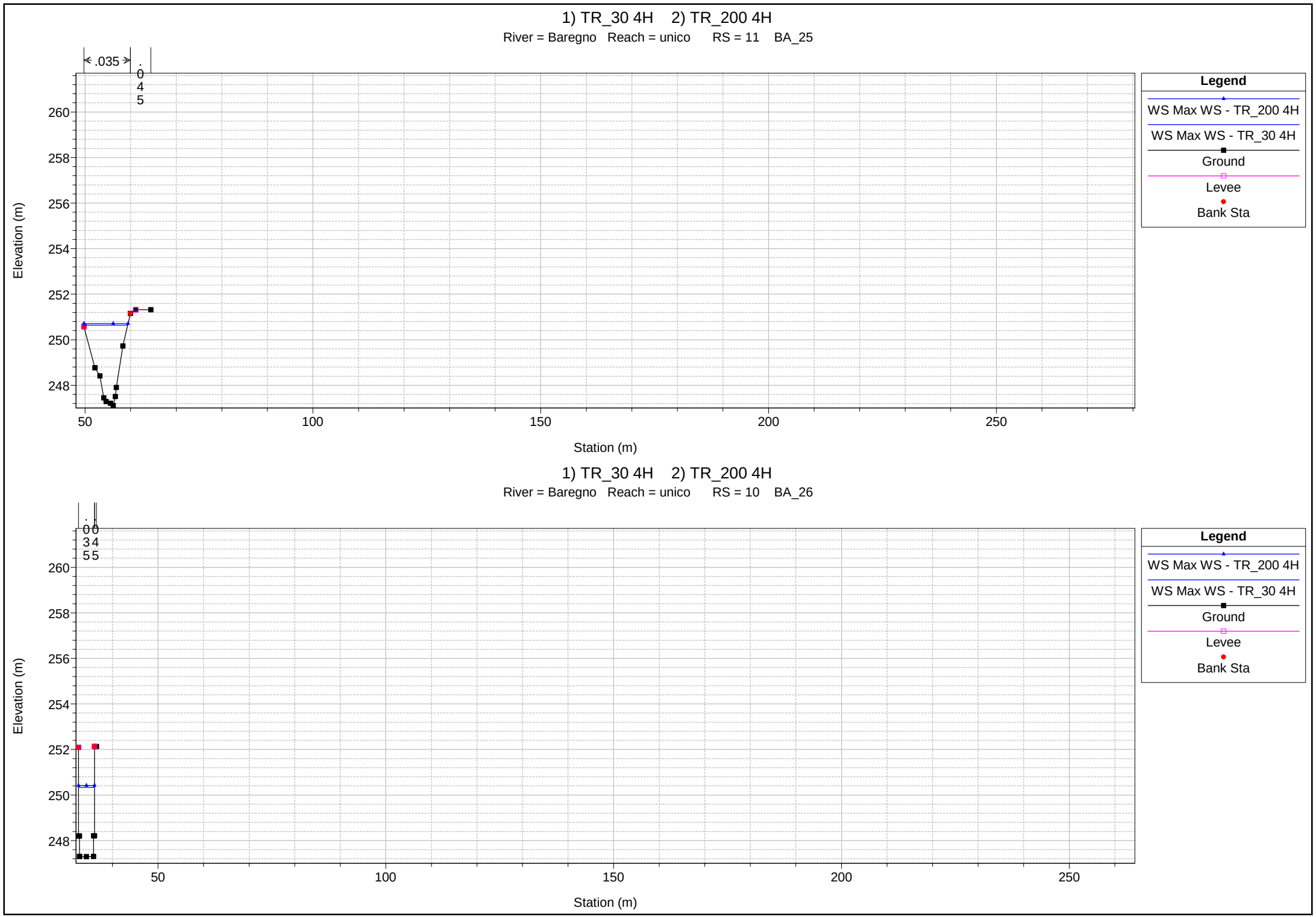
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



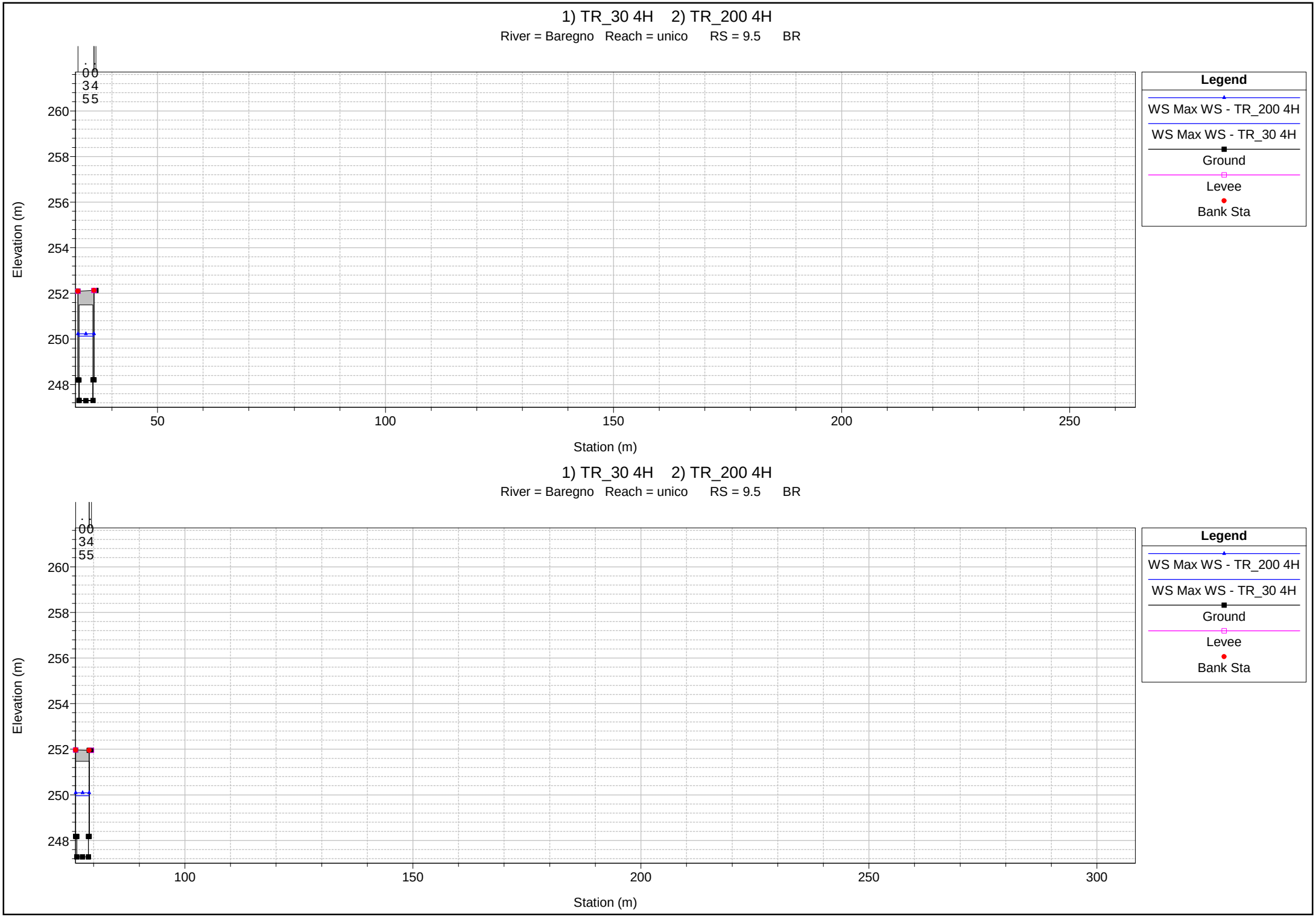
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



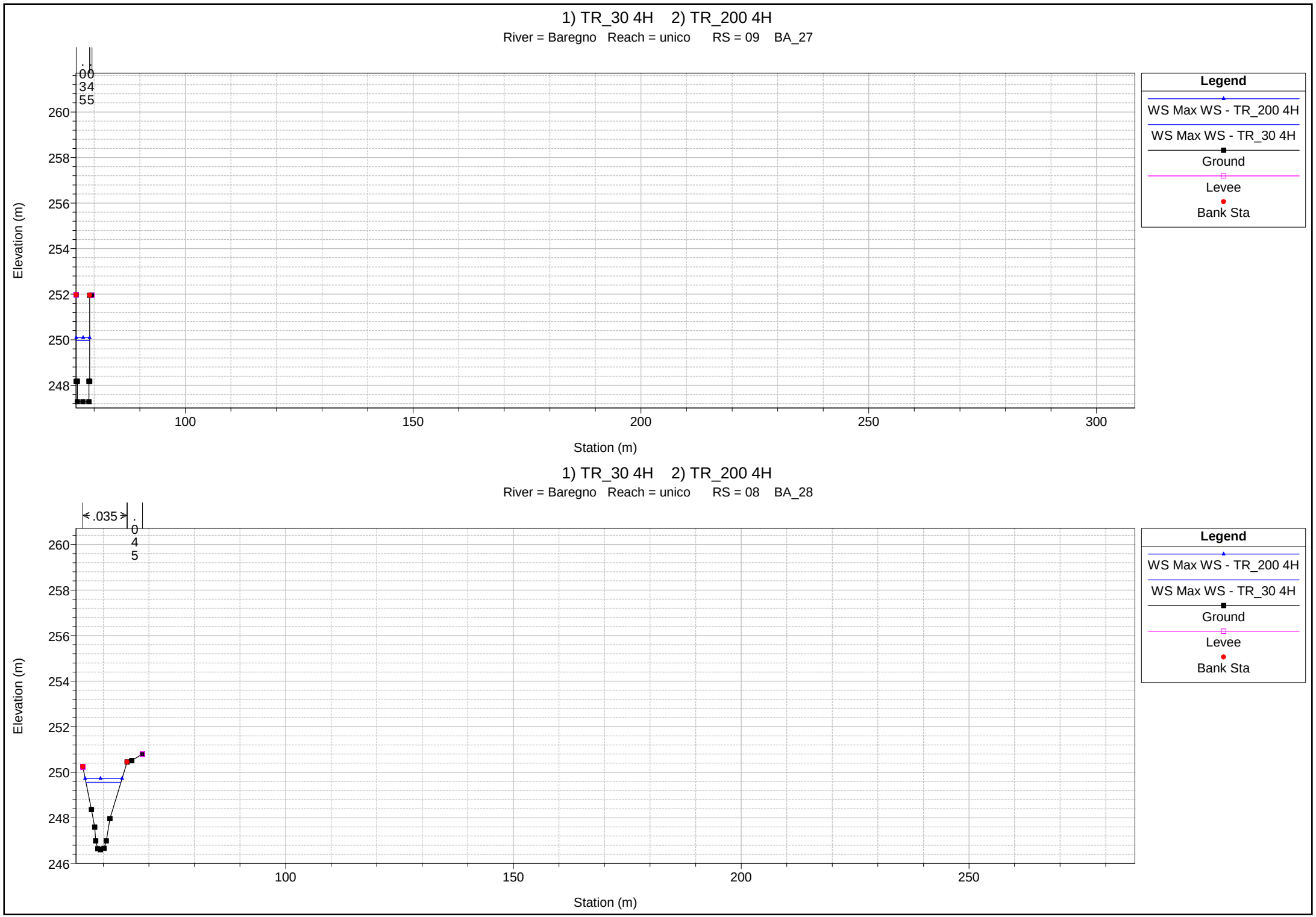
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



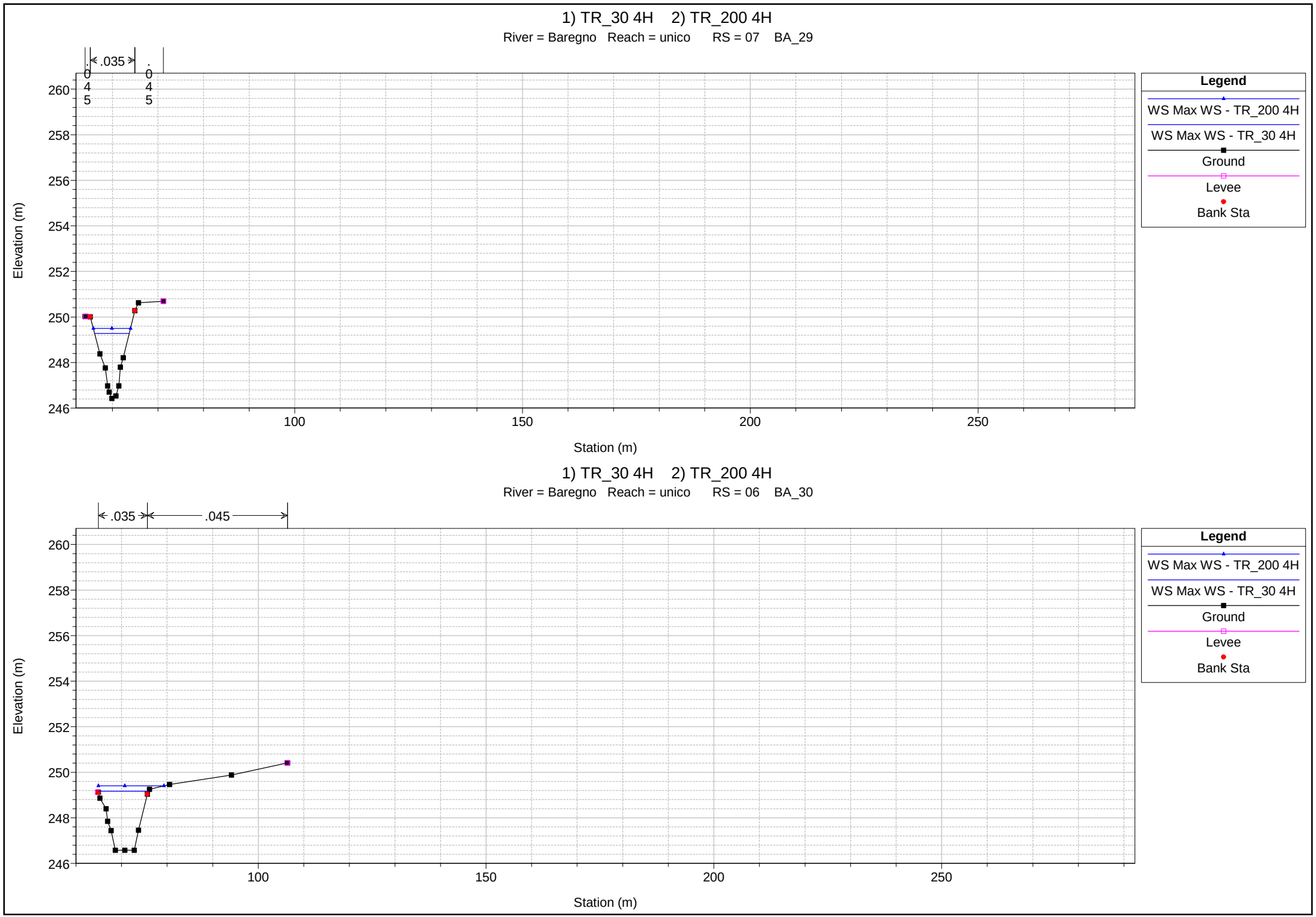
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



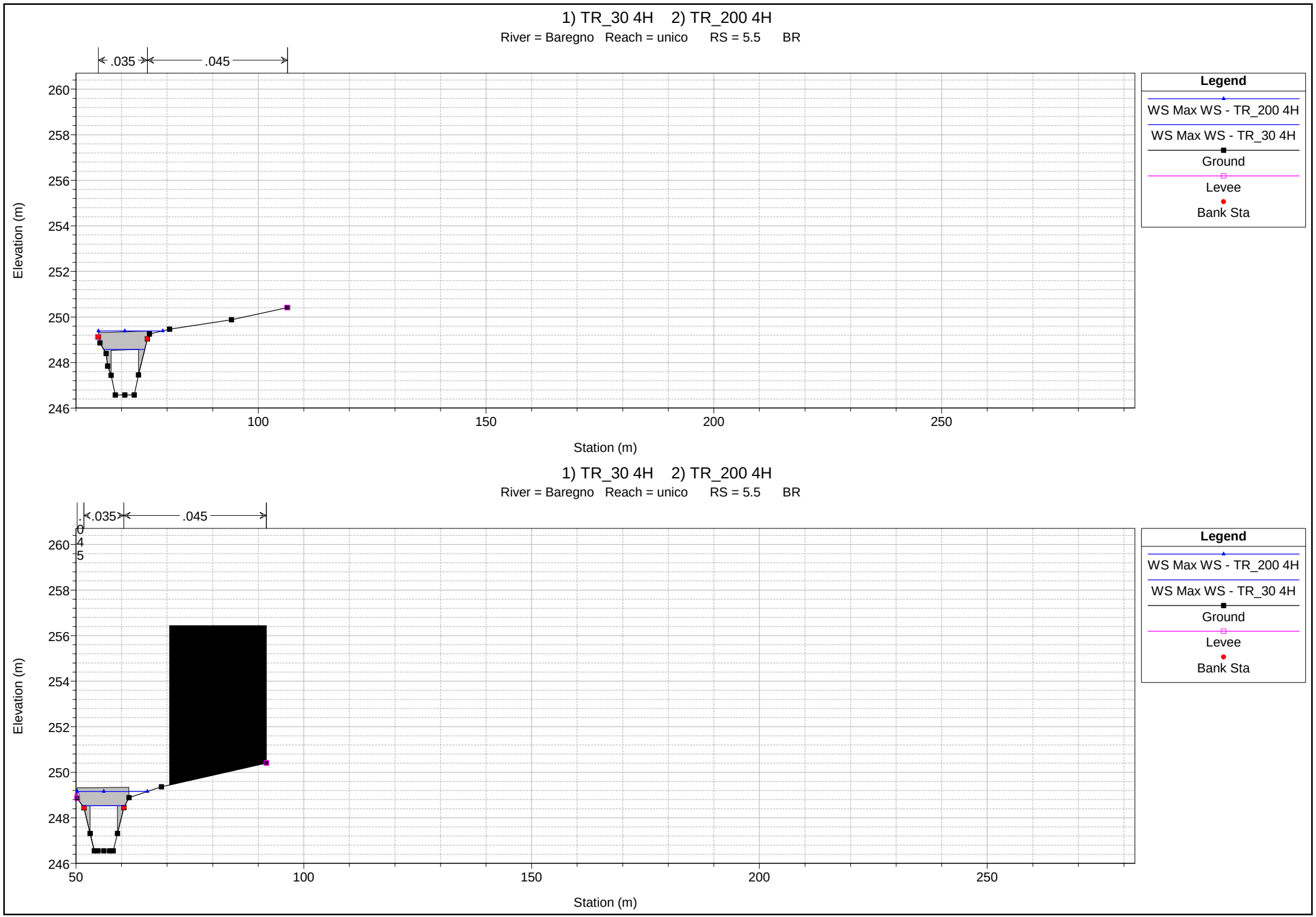
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



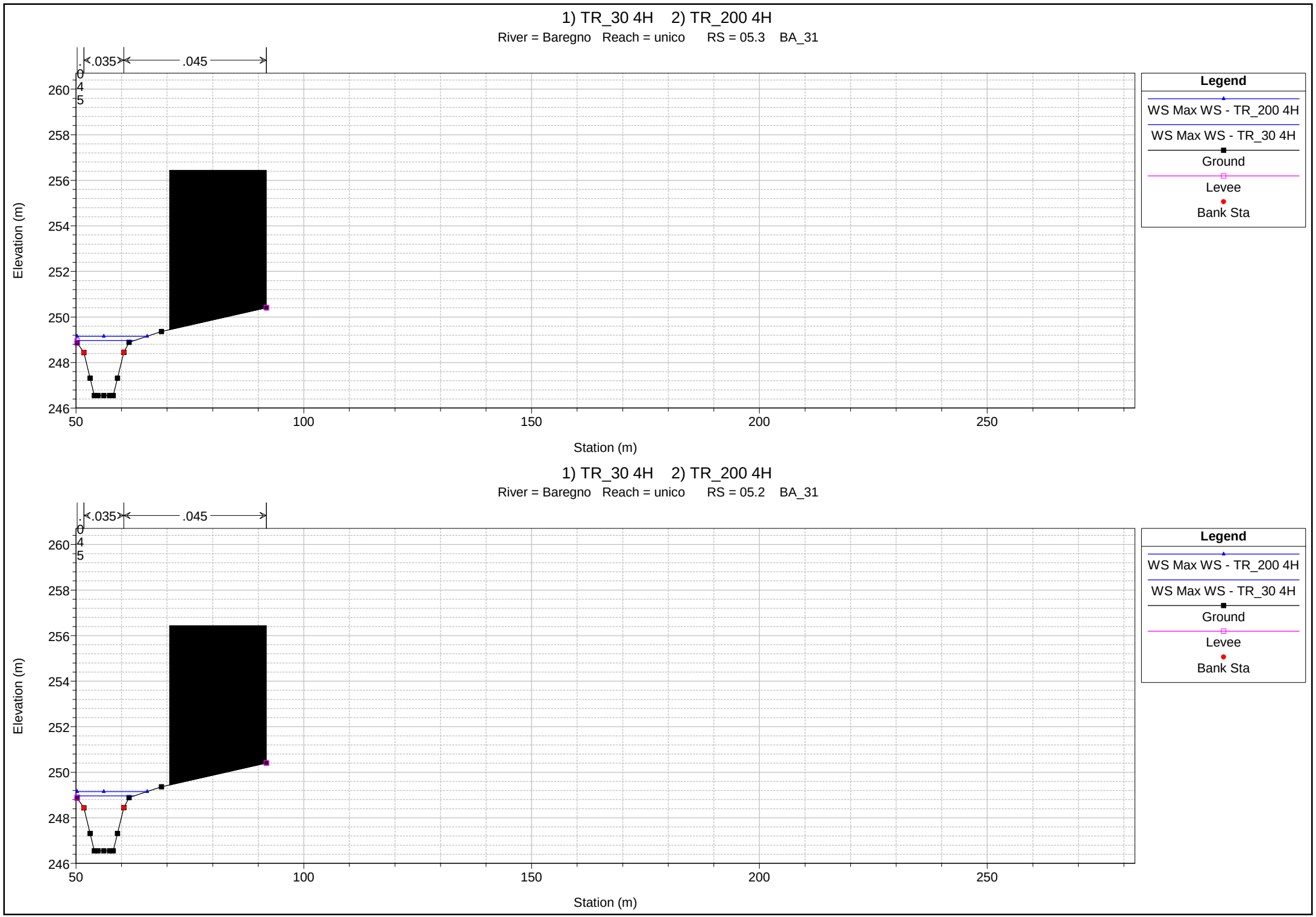
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



1 cm Horiz. = 10 m 1 cm Vert. = 2 m



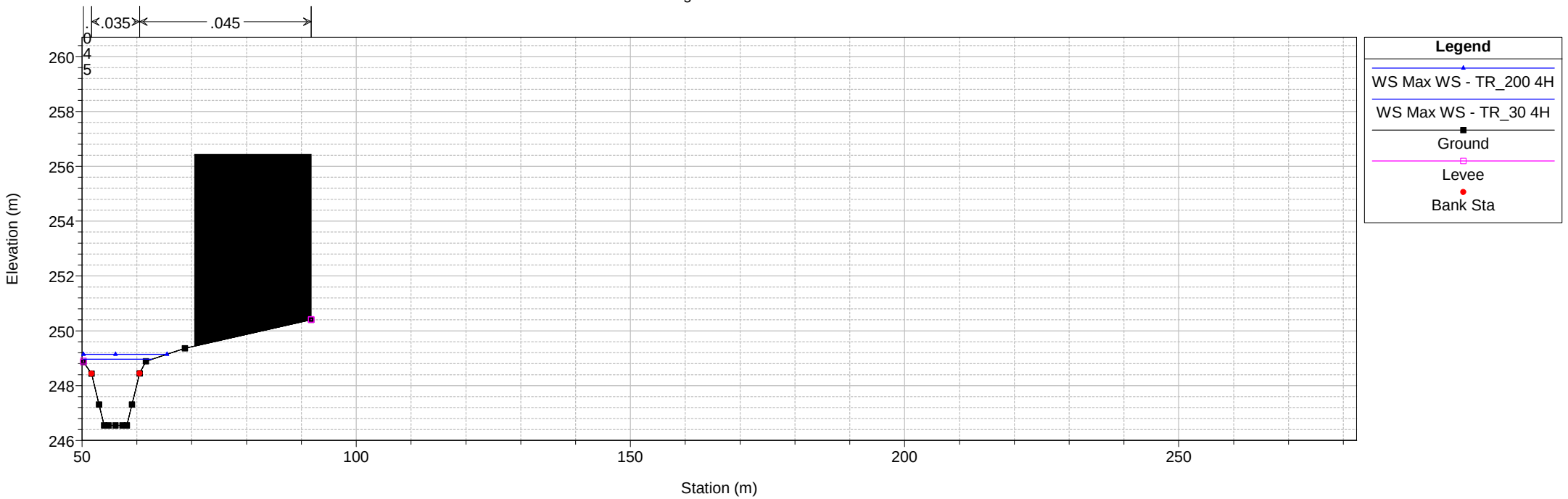
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



1 cm Horiz. = 10 m 1 cm Vert. = 2 m

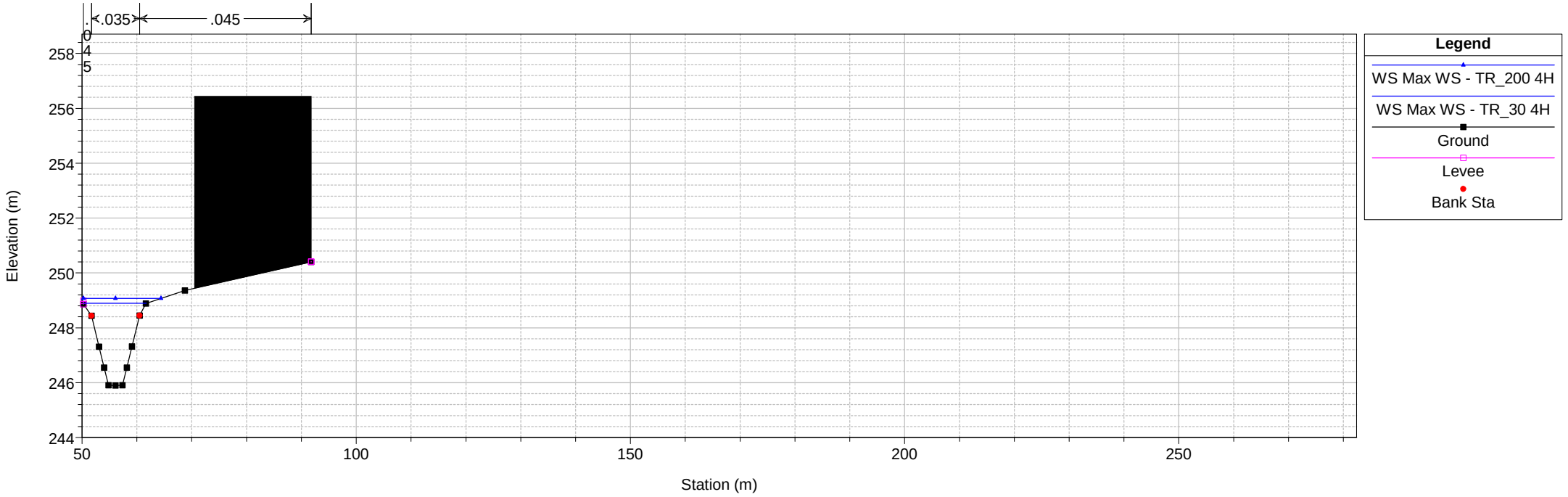
1) TR_30 4H 2) TR_200 4H

River = Baregno Reach = unico RS = 5.1 IS

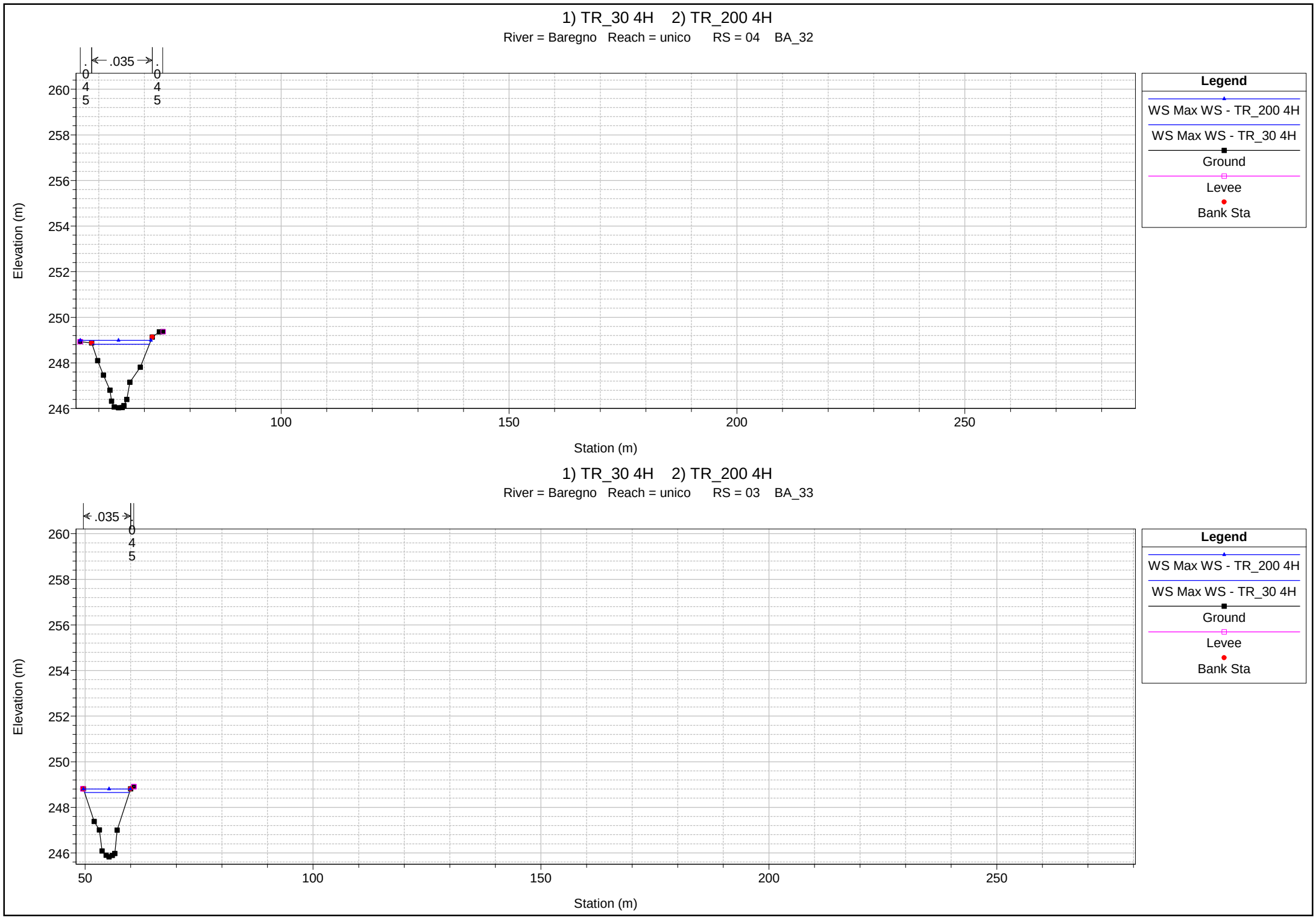


1) TR_30 4H 2) TR_200 4H

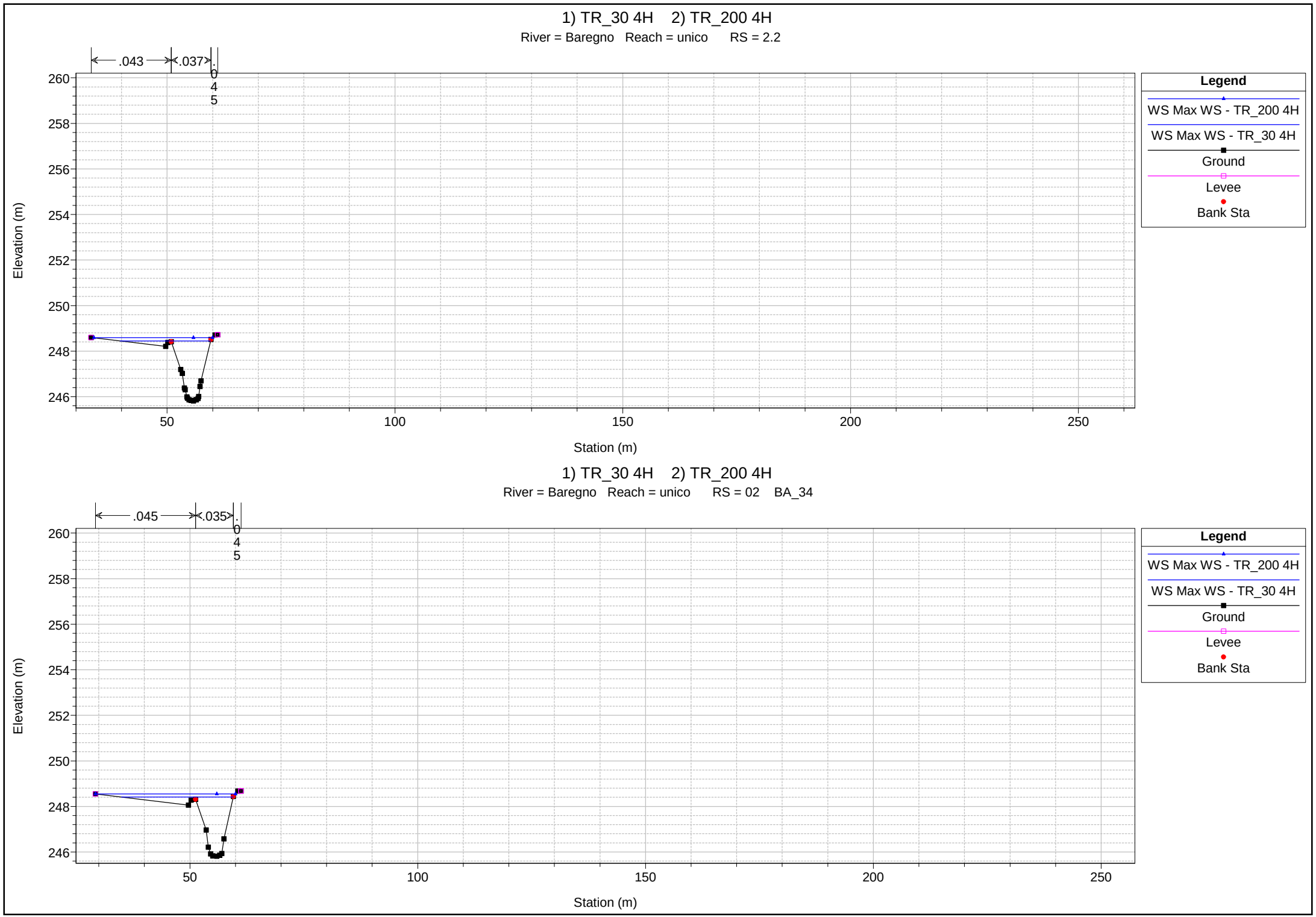
River = Baregno Reach = unico RS = 05 BA_31



1 cm Horiz. = 10 m 1 cm Vert. = 2 m



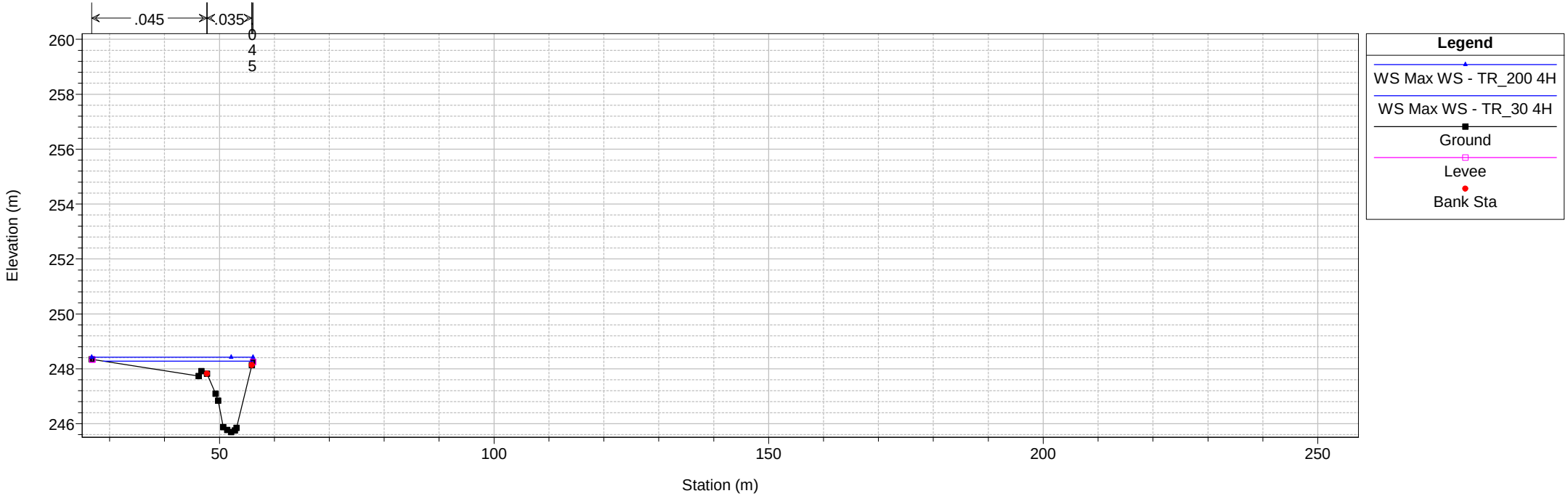
1 cm Horiz. = 10 m 1 cm Vert. = 2 m



1 cm Horiz. = 10 m 1 cm Vert. = 2 m

1) TR_30 4H 2) TR_200 4H

River = Baregno Reach = unico RS = 01 BA_35



1 cm Horiz. = 10 m 1 cm Vert. = 2 m

HEC-RAS River: Baregno Reach: unico 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)	
unico	35	Max WS	TR_30 1H	12.00	250.84	253.60	252.20	253.65	0.000979	1.00	11.95	7.83	0.26
unico	35	Max WS	TR_30 2H	16.80	250.84	254.27	252.49	254.31	0.000679	0.94	17.88	10.04	0.22
unico	35	Max WS	TR_30 3H	18.58	250.84	254.58	252.58	254.62	0.000522	0.88	21.35	14.00	0.20
unico	35	Max WS	TR_30 4H	19.03	250.84	254.69	252.61	254.72	0.000458	0.85	23.27	24.15	0.19
unico	35	Max WS	TR_30 6H	18.49	250.84	254.59	252.58	254.63	0.000511	0.87	21.47	14.25	0.20
unico	35	Max WS	TR_30 8H	17.33	250.84	254.36	252.52	254.40	0.000630	0.92	18.85	10.36	0.22
unico	35	Max WS	TR_30 12H	14.49	250.84	253.95	252.36	254.00	0.000807	0.97	14.93	9.00	0.24
unico	35	Max WS	TR_200 1H	25.33	250.84	255.02	252.89	255.04	0.000311	0.77	49.91	69.77	0.16
unico	35	Max WS	TR_200 2H	36.88	250.84	255.29	253.32	255.32	0.000323	0.85	71.86	86.10	0.17
unico	35	Max WS	TR_200 3H	42.10	250.84	255.38	253.48	255.41	0.000334	0.88	79.76	88.35	0.17
unico	35	Max WS	TR_200 4H	43.35	250.84	255.40	253.52	255.43	0.000336	0.89	81.57	88.86	0.17
unico	35	Max WS	TR_200 6H	40.54	250.84	255.36	253.43	255.38	0.000329	0.87	77.59	87.74	0.17
unico	35	Max WS	TR_200 8H	36.40	250.84	255.28	253.29	255.31	0.000321	0.84	71.21	85.91	0.17
unico	35	Max WS	TR_200 12H	29.84	250.84	255.14	253.06	255.17	0.000312	0.80	59.51	82.46	0.16
unico	34.8	Max WS	TR_30 1H	12.00	250.83	253.58	252.21	253.63	0.000977	1.00	11.97	7.95	0.26
unico	34.8	Max WS	TR_30 2H	16.79	250.83	254.25	252.50	254.30	0.000660	0.93	18.04	10.16	0.22
unico	34.8	Max WS	TR_30 3H	18.59	250.83	254.57	252.59	254.61	0.000495	0.87	22.03	17.08	0.20
unico	34.8	Max WS	TR_30 4H	19.04	250.83	254.68	252.61	254.71	0.000432	0.83	24.21	25.22	0.19
unico	34.8	Max WS	TR_30 6H	18.47	250.83	254.58	252.59	254.62	0.000482	0.86	22.17	17.35	0.19
unico	34.8	Max WS	TR_30 8H	17.33	250.83	254.35	252.53	254.39	0.000612	0.91	19.03	10.47	0.22
unico	34.8	Max WS	TR_30 12H	14.49	250.83	253.94	252.37	253.99	0.000793	0.96	15.02	9.13	0.24
unico	34.8	Max WS	TR_200 1H	25.30	250.83	255.01	252.90	255.04	0.000323	0.80	48.48	76.26	0.16
unico	34.8	Max WS	TR_200 2H	36.87	250.83	255.28	253.31	255.31	0.000330	0.87	70.82	85.65	0.17
unico	34.8	Max WS	TR_200 3H	42.09	250.83	255.37	253.47	255.40	0.000342	0.90	78.65	87.92	0.17
unico	34.8	Max WS	TR_200 4H	43.34	250.83	255.39	253.50	255.42	0.000345	0.91	80.45	88.43	0.17
unico	34.8	Max WS	TR_200 6H	40.53	250.83	255.35	253.42	255.38	0.000338	0.89	76.49	87.30	0.17
unico	34.8	Max WS	TR_200 8H	36.40	250.83	255.28	253.30	255.30	0.000329	0.86	70.14	85.44	0.17
unico	34.8	Max WS	TR_200 12H	29.84	250.83	255.14	253.07	255.16	0.000320	0.82	58.53	81.66	0.16
unico	34	Max WS	TR_30 1H	12.00	250.79	253.52	252.23	253.57	0.000944	0.98	12.24	8.46	0.26
unico	34	Max WS	TR_30 2H	16.77	250.79	254.22	252.50	254.26	0.000545	0.88	20.13	19.47	0.21
unico	34	Max WS	TR_30 3H	18.53	250.79	254.55	252.59	254.58	0.000359	0.78	28.62	31.25	0.17
unico	34	Max WS	TR_30 4H	19.03	250.79	254.66	252.61	254.69	0.000303	0.74	32.37	36.72	0.16
unico	34	Max WS	TR_30 6H	18.46	250.79	254.56	252.59	254.59	0.000350	0.77	28.90	31.57	0.17
unico	34	Max WS	TR_30 8H	17.32	250.79	254.32	252.54	254.35	0.000484	0.85	22.28	23.02	0.20
unico	34	Max WS	TR_30 12H	14.48	250.79	253.89	252.38	253.94	0.000724	0.93	15.62	9.65	0.23
unico	34	Max WS	TR_200 1H	25.30	250.79	254.99	252.88	255.02	0.000269	0.76	48.25	58.38	0.15
unico	34	Max WS	TR_200 2H	36.84	250.79	255.26	253.26	255.29	0.000295	0.85	72.12	86.15	0.16
unico	34	Max WS	TR_200 3H	42.06	250.79	255.35	253.41	255.38	0.000312	0.89	79.90	88.62	0.17
unico	34	Max WS	TR_200 4H	43.34	250.79	255.37	253.44	255.40	0.000316	0.90	81.66	89.17	0.17
unico	34	Max WS	TR_200 6H	40.54	250.79	255.33	253.37	255.35	0.000307	0.88	77.74	87.94	0.17
unico	34	Max WS	TR_200 8H	36.39	250.79	255.25	253.25	255.28	0.000293	0.85	71.44	85.92	0.16
unico	34	Max WS	TR_200 12H	29.84	250.79	255.12	253.04	255.14	0.000274	0.79	59.91	82.11	0.16
unico	33	Max WS	TR_30 1H	11.99	250.68	253.42	252.23	253.48	0.001256	1.10	10.93	7.63	0.29
unico	33	Max WS	TR_30 2H	16.77	250.68	254.16	252.51	254.20	0.000721	0.97	17.38	9.80	0.23
unico	33	Max WS	TR_30 3H	18.54	250.68	254.52	252.61	254.55	0.000435	0.82	30.49	73.90	0.18
unico	33	Max WS	TR_30 4H	19.01	250.68	254.64	252.62	254.66	0.000313	0.72	39.76	77.64	0.16
unico	33	Max WS	TR_30 6H	18.45	250.68	254.53	252.60	254.56	0.000418	0.81	31.22	74.19	0.18
unico	33	Max WS	TR_30 8H	17.32	250.68	254.26	252.54	254.31	0.000652	0.94	18.63	18.85	0.22
unico	33	Max WS	TR_30 12H	14.47	250.68	253.82	252.39	253.87	0.000915	1.02	14.21	8.80	0.26
unico	33	Max WS	TR_200 1H	25.29	250.68	254.98	252.90	254.99	0.000196	0.63	67.75	88.01	0.13
unico	33	Max WS	TR_200 2H	36.83	250.68	255.24	253.30	255.26	0.000199	0.68	92.20	91.17	0.13
unico	33	Max WS	TR_200 3H	42.05	250.68	255.33	253.45	255.35	0.000209	0.71	100.21	91.30	0.13
unico	33	Max WS	TR_200 4H	43.31	250.68	255.35	253.48	255.37	0.000211	0.72	102.02	91.33	0.14
unico	33	Max WS	TR_200 6H	40.53	250.68	255.31	253.40	255.32	0.000206	0.70	98.01	91.27	0.13
unico	33	Max WS	TR_200 8H	36.39	250.68	255.24	253.28	255.25	0.000198	0.68	91.51	91.16	0.13
unico	33	Max WS	TR_200 12H	29.84	250.68	255.10	253.07	255.11	0.000192	0.65	79.13	90.96	0.13
unico	32.9			Lat Struct									
unico	32.2	Max WS	TR_30 1H	11.99	250.57	253.35	251.78	253.38	0.000503	0.80	14.96	8.46	0.19
unico	32.2	Max WS	TR_30 2H	16.77	250.57	254.12	252.03	254.15	0.000346	0.76	21.93	9.76	0.16
unico	32.2	Max WS	TR_30 3H	18.53	250.57	254.48	252.12	254.50	0.000279	0.72	25.57	10.37	0.15
unico	32.2	Max WS	TR_30 4H	18.70	250.57	254.60	252.12	254.62	0.000249	0.70	26.85	10.58	0.14
unico	32.2	Max WS	TR_30 6H	18.42	250.57	254.49	252.11	254.51	0.000273	0.72	25.67	10.39	0.15
unico	32.2	Max WS	TR_30 8H	17.32	250.57	254.22	252.06	254.25	0.000324	0.75	23.00	9.95	0.16
unico	32.2	Max WS	TR_30 12H	14.47	250.57	253.77	251.92	253.80	0.000402	0.78	18.63	9.17	0.17
unico	32.2	Max WS	TR_200 1H	20.41	250.57	254.95	252.20	254.97	0.000208	0.67	30.63	11.17	0.13
unico	32.2	Max WS	TR_200 2H	22.48	250.57	255.22	252.28	255.25	0.000192	0.67	33.80	11.65	0.12
unico	32.2	Max WS	TR_200 3H	23.19	250.57	255.32	252.31	255.34	0.000186	0.67	34.87	11.80	0.12
unico	32.2	Max WS	TR_200 4H	23.35	250.57	255.34	252.31	255.36	0.000185	0.67	35.12	11.88	0.12
unico	32.2	Max WS	TR_200 6H	22.98	250.57	255.29	252.30	255.31	0.000188	0.66	34.58	11.76	0.12
unico	32.2	Max WS	TR_200 8H	22.39	250.57	255.22	252.28	255.24	0.000192	0.66	33.71	11.63	0.12
unico	32.2	Max WS	TR_200 12H	21.32	250.57	255.08	252.23	255.10	0.000200	0.66	32.08	11.39	0.13
unico	32	Max WS	TR_30 1H	11.99	250.57	253.35	251.78	253.38	0.000504	0.80	14.96	8.46	0.19
unico	32	Max WS	TR_30 2H	16.77	250.57	254.12	252.04	254.15	0.000346	0.76	21.93	9.76	0.16
unico	32	Max WS	TR_30 3H	18.53	250.57	254.48	252.11	254.50	0.000279	0.72	25.57	10.37	0.15
unico	32	Max WS	TR_30 4H	18.70	250.57	254.60	252.12	254.62	0.000249	0.70	26.85	10.58	0.14
unico	32	Max WS	TR_30 6H	18.42	250.57	254.49	252.11	254.51	0.000273	0.72	25.67	10.39	0.15
unico	32	Max WS	TR_30 8H	17.32	250.57	254.22	252.05	254.25	0.000324	0.75	23.00	9.95	0.16
unico	32	Max WS	TR_30 12H	14.47	250.57	253.77	251.92	253.80	0.000402	0.78	18.62	9.17	0.17
unico	32	Max WS	TR_200 1H	20.41	250.57	254.95	252.20	254.97	0.000208	0.67	30.62	11.17	0.13
unico	32	Max WS	TR_200 2H	22.48	250.57	255.22	252.28	255.25	0.000192	0.67	33.80	11.65	0.12

HEC-RAS River: Baregno Reach: unico 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)	
unico	32	Max WS	TR_200 3H	23.19	250.57	255.32	252.31	255.34	0.000186	0.67	34.87	11.80	0.12
unico	32	Max WS	TR_200 4H	23.35	250.57	255.34	252.32	255.36	0.000185	0.67	35.12	11.88	0.12
unico	32	Max WS	TR_200 6H	22.98	250.57	255.29	252.30	255.31	0.000188	0.66	34.57	11.76	0.12
unico	32	Max WS	TR_200 8H	22.39	250.57	255.22	252.28	255.24	0.000193	0.66	33.70	11.63	0.12
unico	32	Max WS	TR_200 12H	21.32	250.57	255.08	252.23	255.10	0.000200	0.66	32.08	11.39	0.13
unico	31.5			Bridge									
unico	31	Max WS	TR_30 1H	11.85	250.31	253.03	251.48	253.13	0.002718	1.46	8.14	3.00	0.28
unico	31	Max WS	TR_30 2H	16.69	250.31	253.46	251.78	253.62	0.003747	1.77	9.45	3.00	0.32
unico	31	Max WS	TR_30 3H	18.27	250.31	253.69	251.87	253.86	0.003785	1.80	10.13	3.00	0.31
unico	31	Max WS	TR_30 4H	18.47	250.31	253.80	251.88	253.96	0.003577	1.76	10.47	3.00	0.30
unico	31	Max WS	TR_30 6H	18.25	250.31	253.71	251.87	253.87	0.003728	1.79	10.19	3.00	0.31
unico	31	Max WS	TR_30 8H	17.30	250.31	253.53	251.81	253.69	0.003829	1.79	9.64	3.00	0.32
unico	31	Max WS	TR_30 12H	14.46	250.31	253.28	251.64	253.41	0.003256	1.63	8.89	3.00	0.30
unico	31	Max WS	TR_200 1H	20.40	250.31	254.00	251.99	254.17	0.003840	1.85	11.04	3.00	0.31
unico	31	Max WS	TR_200 2H	22.42	250.31	254.07	252.10	254.28	0.004414	1.99	11.28	3.00	0.33
unico	31	Max WS	TR_200 3H	23.14	250.31	254.10	252.14	254.31	0.004641	2.04	11.34	3.00	0.33
unico	31	Max WS	TR_200 4H	23.32	250.31	254.10	252.15	254.31	0.004695	2.05	11.35	3.00	0.34
unico	31	Max WS	TR_200 6H	22.98	250.31	254.09	252.13	254.30	0.004585	2.03	11.33	3.00	0.33
unico	31	Max WS	TR_200 8H	22.39	250.31	254.08	252.10	254.28	0.004397	1.98	11.28	3.00	0.33
unico	31	Max WS	TR_200 12H	21.32	250.31	254.04	252.04	254.23	0.004077	1.91	11.18	3.00	0.32
unico	30	Max WS	TR_30 1H	11.82	250.18	252.95	251.65	252.98	0.000707	0.87	13.66	9.05	0.22
unico	30	Max WS	TR_30 2H	16.68	250.18	253.42	251.91	253.46	0.000645	0.92	18.22	10.37	0.22
unico	30	Max WS	TR_30 3H	18.26	250.18	253.67	251.97	253.71	0.000530	0.87	20.95	11.09	0.20
unico	30	Max WS	TR_30 4H	18.47	250.18	253.79	251.98	253.83	0.000457	0.83	22.33	11.44	0.19
unico	30	Max WS	TR_30 6H	18.24	250.18	253.69	251.97	253.73	0.000514	0.86	21.18	11.15	0.20
unico	30	Max WS	TR_30 8H	17.30	250.18	253.49	251.93	253.53	0.000622	0.91	18.97	10.57	0.22
unico	30	Max WS	TR_30 12H	14.45	250.18	253.22	251.81	253.26	0.000665	0.89	16.21	9.81	0.22
unico	30	Max WS	TR_200 1H	20.40	250.18	254.00	252.05	254.03	0.000422	0.82	24.75	12.02	0.18
unico	30	Max WS	TR_200 2H	22.44	250.18	254.09	252.12	254.12	0.000457	0.87	25.80	12.26	0.19
unico	30	Max WS	TR_200 3H	23.14	250.18	254.11	252.14	254.15	0.000472	0.89	26.08	12.33	0.19
unico	30	Max WS	TR_200 4H	23.32	250.18	254.11	252.15	254.15	0.000476	0.89	26.14	12.34	0.20
unico	30	Max WS	TR_200 6H	22.98	250.18	254.10	252.14	254.14	0.000468	0.88	26.02	12.31	0.19
unico	30	Max WS	TR_200 8H	22.39	250.18	254.09	252.12	254.12	0.000454	0.87	25.81	12.27	0.19
unico	30	Max WS	TR_200 12H	21.32	250.18	254.05	252.08	254.08	0.000433	0.84	25.34	12.16	0.19
unico	29.4	Max WS	TR_30 1H	11.82	250.07	252.87	251.83	252.92	0.001446	1.03	11.52	8.60	0.28
unico	29.4	Max WS	TR_30 2H	16.69	250.07	253.35	252.06	253.41	0.001183	1.04	16.03	10.13	0.26
unico	29.4	Max WS	TR_30 3H	18.26	250.07	253.62	252.12	253.67	0.000914	0.97	18.86	10.98	0.24
unico	29.4	Max WS	TR_30 4H	18.48	250.07	253.75	252.13	253.79	0.000766	0.91	20.32	11.40	0.22
unico	29.4	Max WS	TR_30 6H	18.26	250.07	253.64	252.13	253.69	0.000883	0.96	19.10	11.05	0.23
unico	29.4	Max WS	TR_30 8H	17.32	250.07	253.43	252.09	253.48	0.001126	1.03	16.78	10.36	0.26
unico	29.4	Max WS	TR_30 12H	14.47	250.07	253.15	251.96	253.20	0.001275	1.03	14.03	9.48	0.27
unico	29.4	Max WS	TR_200 1H	20.41	250.07	253.96	252.21	254.00	0.000685	0.90	22.79	12.07	0.21
unico	29.4	Max WS	TR_200 2H	22.49	250.07	254.04	252.28	254.09	0.000735	0.94	24.00	15.35	0.22
unico	29.4	Max WS	TR_200 3H	23.21	250.07	254.07	252.31	254.11	0.000756	0.96	24.33	15.77	0.22
unico	29.4	Max WS	TR_200 4H	23.40	250.07	254.07	252.32	254.12	0.000762	0.97	24.40	15.86	0.22
unico	29.4	Max WS	TR_200 6H	23.05	250.07	254.06	252.31	254.11	0.000751	0.96	24.26	15.68	0.22
unico	29.4	Max WS	TR_200 8H	22.45	250.07	254.05	252.28	254.09	0.000731	0.94	24.01	15.37	0.22
unico	29.4	Max WS	TR_200 12H	21.37	250.07	254.01	252.24	254.05	0.000703	0.91	23.36	12.22	0.21
unico	29.38			Lat Struct									
unico	29	Max WS	TR_30 1H	11.81	250.00	252.81	251.89	252.87	0.001681	1.15	10.29	8.26	0.33
unico	29	Max WS	TR_30 2H	16.69	250.00	253.30	252.13	253.37	0.001255	1.13	14.81	9.97	0.30
unico	29	Max WS	TR_30 3H	18.27	250.00	253.58	252.20	253.64	0.000922	1.03	17.75	10.94	0.26
unico	29	Max WS	TR_30 4H	18.50	250.00	253.72	252.22	253.77	0.000756	0.96	19.29	11.41	0.24
unico	29	Max WS	TR_30 6H	18.27	250.00	253.61	252.21	253.66	0.000887	1.01	18.01	11.02	0.25
unico	29	Max WS	TR_30 8H	17.34	250.00	253.38	252.17	253.44	0.001181	1.11	15.58	10.23	0.29
unico	29	Max WS	TR_30 12H	14.49	250.00	253.09	252.03	253.16	0.001402	1.13	12.80	9.25	0.31
unico	29	Max WS	TR_200 1H	20.42	250.00	253.94	252.29	253.98	0.000620	0.93	23.18	19.19	0.22
unico	29	Max WS	TR_200 2H	22.50	250.00	254.02	252.37	254.07	0.000648	0.97	24.82	20.15	0.22
unico	29	Max WS	TR_200 3H	23.22	250.00	254.04	252.40	254.09	0.000663	0.99	25.25	20.17	0.23
unico	29	Max WS	TR_200 4H	23.38	250.00	254.05	252.41	254.10	0.000667	0.99	25.34	20.18	0.23
unico	29	Max WS	TR_200 6H	23.05	250.00	254.04	252.39	254.08	0.000659	0.98	25.15	20.17	0.22
unico	29	Max WS	TR_200 8H	22.47	250.00	254.02	252.37	254.07	0.000644	0.97	24.84	20.15	0.22
unico	29	Max WS	TR_200 12H	21.40	250.00	253.99	252.33	254.03	0.000625	0.94	24.11	20.10	0.22
unico	28	Max WS	TR_30 1H	11.81	249.76	252.70	251.49	252.76	0.001065	1.00	11.79	8.04	0.26
unico	28	Max WS	TR_30 2H	16.71	249.76	253.22	251.75	253.27	0.000886	1.02	16.31	9.48	0.25
unico	28	Max WS	TR_30 3H	18.29	249.76	253.52	251.82	253.57	0.000674	0.95	19.30	10.31	0.22
unico	28	Max WS	TR_30 4H	18.53	249.76	253.67	251.83	253.71	0.000561	0.89	20.85	10.71	0.20
unico	28	Max WS	TR_30 6H	18.30	249.76	253.55	251.82	253.59	0.000650	0.94	19.57	10.38	0.22
unico	28	Max WS	TR_30 8H	17.39	249.76	253.30	251.78	253.35	0.000848	1.02	17.08	9.70	0.24
unico	28	Max WS	TR_30 12H	14.53	249.76	253.00	251.64	253.06	0.000951	1.01	14.32	8.88	0.25
unico	28	Max WS	TR_200 1H	20.45	249.76	253.89	251.91	253.93	0.000508	0.88	23.28	11.30	0.20
unico	28	Max WS	TR_200 2H	22.57	249.76	253.97	252.00	254.01	0.000560	0.93	24.15	11.51	0.21
unico	28	Max WS	TR_200 3H	23.32	249.76	253.99	252.03	254.03	0.000584	0.96	24.36	11.56	0.21
unico	28	Max WS	TR_200 4H	23.50	249.76	253.99	252.04	254.04	0.000589	0.96	24.41	11.57	0.21
unico	28	Max WS	TR_200 6H	23.16	249.76	253.98	252.02	254.03	0.000579	0.95	24.32	11.55	0.21
unico	28	Max WS	TR_200 8H	22.58	249.76	253.97	252.00	254.01	0.000559	0.93	24.17	11.51	0.21
unico	28	Max WS	TR_200 12H	21.48	249.76	253.94	251.95	253.98	0.000528	0.90	23.79	11.42	0.20
unico	27	Max WS	TR_30 1H	11.83	249.87	252.66	251.11	252.69	0.000589	0.84	14.15	8.68	0.21

HEC-RAS River: Baregno Reach: unico 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)	
unico	27	Max WS	TR_30 2H	16.73	249.87	253.18	251.38	253.22	0.000534	0.88	19.07	10.10	0.20
unico	27	Max WS	TR_30 3H	18.32	249.87	253.49	251.46	253.53	0.000420	0.82	22.35	10.95	0.18
unico	27	Max WS	TR_30 4H	18.56	249.87	253.64	251.47	253.67	0.000355	0.77	24.06	11.36	0.17
unico	27	Max WS	TR_30 6H	18.34	249.87	253.52	251.46	253.55	0.000407	0.81	22.64	11.02	0.18
unico	27	Max WS	TR_30 8H	17.43	249.87	253.26	251.42	253.30	0.000518	0.88	19.90	10.32	0.20
unico	27	Max WS	TR_30 12H	14.56	249.87	252.96	251.28	253.00	0.000556	0.86	16.91	9.50	0.21
unico	27	Max WS	TR_200 1H	20.48	249.87	253.87	251.56	253.90	0.000329	0.77	26.66	11.97	0.16
unico	27	Max WS	TR_200 2H	22.66	249.87	253.94	251.65	253.97	0.000369	0.82	27.53	12.17	0.17
unico	27	Max WS	TR_200 3H	23.46	249.87	253.96	251.68	253.99	0.000388	0.85	27.74	12.21	0.18
unico	27	Max WS	TR_200 4H	23.63	249.87	253.96	251.69	254.00	0.000392	0.85	27.79	12.22	0.18
unico	27	Max WS	TR_200 6H	23.27	249.87	253.95	251.67	253.99	0.000384	0.84	27.70	12.20	0.18
unico	27	Max WS	TR_200 8H	22.68	249.87	253.94	251.65	253.98	0.000370	0.82	27.55	12.17	0.17
unico	27	Max WS	TR_200 12H	21.56	249.87	253.91	251.60	253.94	0.000347	0.79	27.17	12.09	0.17
unico	26.4	Max WS	TR_30 1H	11.85	249.84	252.62	251.09	252.66	0.000612	0.85	13.88	8.45	0.21
unico	26.4	Max WS	TR_30 2H	16.75	249.84	253.15	251.36	253.19	0.000560	0.89	18.73	9.97	0.21
unico	26.4	Max WS	TR_30 3H	18.34	249.84	253.47	251.44	253.50	0.000422	0.83	22.09	11.14	0.18
unico	26.4	Max WS	TR_30 4H	18.58	249.84	253.62	251.44	253.65	0.000346	0.78	23.89	11.79	0.17
unico	26.4	Max WS	TR_30 6H	18.36	249.84	253.49	251.44	253.53	0.000407	0.82	22.40	11.25	0.18
unico	26.4	Max WS	TR_30 8H	17.47	249.84	253.23	251.40	253.27	0.000544	0.89	19.56	10.20	0.21
unico	26.4	Max WS	TR_30 12H	14.59	249.84	252.92	251.25	252.96	0.000583	0.88	16.60	9.33	0.21
unico	26.4	Max WS	TR_200 1H	20.50	249.84	253.85	251.54	253.88	0.000304	0.78	26.65	12.74	0.16
unico	26.4	Max WS	TR_200 2H	22.72	249.84	253.92	251.63	253.95	0.000338	0.84	27.95	17.73	0.17
unico	26.4	Max WS	TR_200 3H	23.56	249.84	253.93	251.66	253.97	0.000356	0.87	28.23	18.09	0.17
unico	26.4	Max WS	TR_200 4H	23.73	249.84	253.94	251.67	253.98	0.000359	0.87	28.30	18.16	0.17
unico	26.4	Max WS	TR_200 6H	23.36	249.84	253.93	251.66	253.97	0.000351	0.86	28.17	18.01	0.17
unico	26.4	Max WS	TR_200 8H	22.75	249.84	253.92	251.63	253.95	0.000339	0.84	27.97	17.76	0.17
unico	26.4	Max WS	TR_200 12H	21.62	249.84	253.89	251.58	253.92	0.000319	0.81	27.45	17.08	0.16
unico	26.35			Lat Struct									
unico	26	Max WS	TR_30 1H	11.86	249.83	252.59	251.07	252.63	0.000665	0.87	13.66	8.51	0.22
unico	26	Max WS	TR_30 2H	16.76	249.83	253.12	251.35	253.17	0.000548	0.91	18.51	9.80	0.21
unico	26	Max WS	TR_30 3H	18.35	249.83	253.45	251.42	253.48	0.000401	0.86	21.82	10.59	0.18
unico	26	Max WS	TR_30 4H	18.59	249.83	253.61	251.43	253.64	0.000329	0.81	23.65	13.39	0.16
unico	26	Max WS	TR_30 6H	18.38	249.83	253.48	251.42	253.51	0.000386	0.85	22.12	10.66	0.18
unico	26	Max WS	TR_30 8H	17.49	249.83	253.21	251.38	253.25	0.000528	0.91	19.33	10.00	0.20
unico	26	Max WS	TR_30 12H	14.61	249.83	252.90	251.24	252.94	0.000589	0.89	16.39	9.26	0.21
unico	26	Max WS	TR_200 1H	19.70	249.83	253.84	251.48	253.87	0.000266	0.77	27.07	15.03	0.15
unico	26	Max WS	TR_200 2H	20.84	249.83	253.92	251.53	253.95	0.000269	0.79	28.21	15.12	0.15
unico	26	Max WS	TR_200 3H	21.37	249.83	253.93	251.56	253.97	0.000276	0.81	28.47	15.14	0.15
unico	26	Max WS	TR_200 4H	21.46	249.83	253.94	251.56	253.97	0.000277	0.81	28.53	15.15	0.15
unico	26	Max WS	TR_200 6H	21.23	249.83	253.93	251.55	253.96	0.000274	0.80	28.42	15.14	0.15
unico	26	Max WS	TR_200 8H	20.85	249.83	253.92	251.53	253.95	0.000269	0.79	28.23	15.12	0.15
unico	26	Max WS	TR_200 12H	20.25	249.83	253.88	251.51	253.91	0.000265	0.78	27.74	15.08	0.15
unico	25	Max WS	TR_30 1H	11.89	249.94	252.13	251.40	252.37	0.008415	2.18	5.44	2.79	0.50
unico	25	Max WS	TR_30 2H	16.80	249.94	252.56	251.73	252.89	0.009994	2.52	6.66	2.79	0.52
unico	25	Max WS	TR_30 3H	18.40	249.94	252.98	251.82	253.26	0.008024	2.36	7.81	2.79	0.45
unico	25	Max WS	TR_30 4H	18.64	249.94	253.20	251.84	253.45	0.006810	2.21	8.44	2.79	0.41
unico	25	Max WS	TR_30 6H	18.44	249.94	253.02	251.82	253.29	0.007778	2.33	7.93	2.79	0.44
unico	25	Max WS	TR_30 8H	17.57	249.94	252.64	251.77	252.97	0.010124	2.56	6.86	2.79	0.52
unico	25	Max WS	TR_30 12H	14.67	249.94	252.38	251.59	252.67	0.009358	2.39	6.15	2.79	0.51
unico	25	Max WS	TR_200 1H	19.04	249.94	253.50	251.86	253.72	0.005581	2.05	9.29	2.85	0.36
unico	25	Max WS	TR_200 2H	19.21	249.94	253.60	251.87	253.81	0.005220	2.01	9.57	2.97	0.35
unico	25	Max WS	TR_200 3H	19.52	249.94	253.61	251.89	253.82	0.005334	2.03	9.61	2.98	0.35
unico	25	Max WS	TR_200 4H	19.54	249.94	253.62	251.89	253.83	0.005322	2.03	9.62	2.98	0.35
unico	25	Max WS	TR_200 6H	19.43	249.94	253.61	251.88	253.82	0.005292	2.03	9.60	2.98	0.35
unico	25	Max WS	TR_200 8H	19.24	249.94	253.60	251.87	253.81	0.005236	2.01	9.57	2.97	0.35
unico	25	Max WS	TR_200 12H	19.13	249.94	253.56	251.86	253.77	0.005357	2.02	9.45	2.92	0.35
unico	24.5			Bridge									
unico	24	Max WS	TR_30 1H	11.88	249.94	252.01	251.40	252.28	0.009922	2.33	5.11	2.79	0.55
unico	24	Max WS	TR_30 2H	16.79	249.94	252.34	251.72	252.73	0.012904	2.79	6.03	2.79	0.61
unico	24	Max WS	TR_30 3H	18.40	249.94	252.43	251.82	252.87	0.013923	2.93	6.28	2.79	0.62
unico	24	Max WS	TR_30 4H	18.64	249.94	252.44	251.83	252.89	0.014081	2.95	6.32	2.79	0.63
unico	24	Max WS	TR_30 6H	18.43	249.94	252.43	251.82	252.87	0.013911	2.93	6.29	2.79	0.62
unico	24	Max WS	TR_30 8H	17.57	249.94	252.39	251.77	252.80	0.013283	2.85	6.17	2.79	0.61
unico	24	Max WS	TR_30 12H	14.67	249.94	252.21	251.59	252.55	0.011483	2.58	5.68	2.79	0.58
unico	24	Max WS	TR_200 1H	19.02	249.94	252.46	251.86	252.92	0.014347	2.98	6.37	2.79	0.63
unico	24	Max WS	TR_200 2H	19.15	249.94	252.49	251.87	252.94	0.014060	2.97	6.46	2.79	0.62
unico	24	Max WS	TR_200 3H	19.49	249.94	252.52	251.88	252.97	0.014106	2.98	6.54	2.79	0.62
unico	24	Max WS	TR_200 4H	19.53	249.94	252.51	251.88	252.97	0.014359	3.00	6.50	2.79	0.63
unico	24	Max WS	TR_200 6H	19.42	249.94	252.50	251.88	252.96	0.014368	3.00	6.47	2.79	0.63
unico	24	Max WS	TR_200 8H	19.24	249.94	252.49	251.87	252.94	0.014294	2.99	6.44	2.79	0.63
unico	24	Max WS	TR_200 12H	19.13	249.94	252.48	251.86	252.93	0.014291	2.98	6.41	2.79	0.63
unico	23	Max WS	TR_30 1H	11.87	249.52	251.69	250.74	251.80	0.002432	1.43	8.28	5.94	0.39
unico	23	Max WS	TR_30 2H	16.79	249.52	252.07	251.04	252.20	0.002479	1.56	10.77	7.01	0.40
unico	23	Max WS	TR_30 3H	18.44	249.52	252.18	251.13	252.31	0.002507	1.60	11.53	7.30	0.41
unico	23	Max WS	TR_30 4H	18.69	249.52	252.20	251.14	252.33	0.002514	1.61	11.63	7.35	0.41
unico	23	Max WS	TR_30 6H	18.49	249.52	252.19	251.13	252.32	0.002497	1.60	11.57	7.32	0.41
unico	23	Max WS	TR_30 8H	17.63	249.52	252.14	251.08	252.26	0.002456	1.57	11.22	7.19	0.40
unico	23	Max WS	TR_30 12H	14.72	249.52	251.93	250.92	252.05	0.002423	1.50	9.81	6.62	0.39
unico	23	Max WS	TR_200 1H	19.07	249.52	252.22	251.16	252.35	0.002526	1.62	11.79	7.41	0.41

HEC-RAS River: Baregno Reach: unico 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)	
unico	23	Max WS	TR_200 2H	19.35	249.52	252.26	251.18	252.39	0.002441	1.60	12.09	7.51	0.40
unico	23	Max WS	TR_200 3H	19.70	249.52	252.28	251.19	252.41	0.002450	1.61	12.24	7.57	0.40
unico	23	Max WS	TR_200 4H	19.72	249.52	252.27	251.19	252.41	0.002465	1.61	12.22	7.56	0.41
unico	23	Max WS	TR_200 6H	19.58	249.52	252.26	251.19	252.39	0.002480	1.62	12.12	7.53	0.41
unico	23	Max WS	TR_200 8H	19.38	249.52	252.25	251.18	252.38	0.002486	1.61	12.01	7.49	0.41
unico	23	Max WS	TR_200 12H	19.23	249.52	252.23	251.17	252.37	0.002499	1.61	11.92	7.45	0.41
unico	22	Max WS	TR_30 1H	11.88	249.23	251.56	250.45	251.63	0.001571	1.19	9.98	7.26	0.32
unico	22	Max WS	TR_30 2H	16.80	249.23	251.95	250.74	252.03	0.001571	1.29	13.06	8.57	0.33
unico	22	Max WS	TR_30 3H	18.47	249.23	252.06	250.83	252.15	0.001589	1.32	13.99	8.93	0.34
unico	22	Max WS	TR_30 4H	18.72	249.23	252.07	250.84	252.16	0.001595	1.33	14.12	8.98	0.34
unico	22	Max WS	TR_30 6H	18.53	249.23	252.06	250.83	252.15	0.001584	1.32	14.04	8.95	0.34
unico	22	Max WS	TR_30 8H	17.67	249.23	252.02	250.79	252.10	0.001558	1.30	13.63	8.79	0.33
unico	22	Max WS	TR_30 12H	14.76	249.23	251.81	250.63	251.89	0.001549	1.24	11.88	8.10	0.33
unico	22	Max WS	TR_200 1H	19.10	249.23	252.09	250.86	252.18	0.001603	1.34	14.31	9.05	0.34
unico	22	Max WS	TR_200 2H	19.51	249.23	252.13	250.87	252.22	0.001563	1.33	14.68	9.19	0.34
unico	22	Max WS	TR_200 3H	19.87	249.23	252.15	250.90	252.24	0.001572	1.34	14.86	9.25	0.34
unico	22	Max WS	TR_200 4H	19.87	249.23	252.15	250.89	252.24	0.001580	1.34	14.83	9.24	0.34
unico	22	Max WS	TR_200 6H	19.71	249.23	252.14	250.89	252.23	0.001585	1.34	14.72	9.20	0.34
unico	22	Max WS	TR_200 8H	19.48	249.23	252.12	250.88	252.21	0.001587	1.34	14.58	9.15	0.34
unico	22	Max WS	TR_200 12H	19.31	249.23	252.11	250.87	252.20	0.001592	1.34	14.47	9.11	0.34
unico	21	Max WS	TR_30 1H	11.86	248.98	251.33	250.66	251.43	0.002692	1.41	8.38	7.10	0.42
unico	21	Max WS	TR_30 2H	16.78	248.98	251.74	250.90	251.85	0.002248	1.46	11.53	8.18	0.39
unico	21	Max WS	TR_30 3H	18.50	248.98	251.84	250.96	251.96	0.002238	1.49	12.40	8.45	0.39
unico	21	Max WS	TR_30 4H	18.75	248.98	251.86	250.98	251.97	0.002244	1.50	12.51	8.49	0.39
unico	21	Max WS	TR_30 6H	18.57	248.98	251.85	250.97	251.96	0.002230	1.49	12.45	8.47	0.39
unico	21	Max WS	TR_30 8H	17.72	248.98	251.81	250.93	251.92	0.002199	1.47	12.09	8.35	0.39
unico	21	Max WS	TR_30 12H	14.79	248.98	251.59	250.81	251.70	0.002329	1.43	10.38	7.80	0.39
unico	21	Max WS	TR_200 1H	19.14	248.98	251.88	250.99	251.99	0.002253	1.51	12.68	8.54	0.40
unico	21	Max WS	TR_200 2H	19.66	248.98	251.92	251.01	252.04	0.002194	1.51	13.06	8.65	0.39
unico	21	Max WS	TR_200 3H	20.04	248.98	251.94	251.03	252.06	0.002206	1.52	13.22	8.70	0.39
unico	21	Max WS	TR_200 4H	20.02	248.98	251.93	251.03	252.05	0.002217	1.52	13.18	8.69	0.39
unico	21	Max WS	TR_200 6H	19.83	248.98	251.92	251.02	252.04	0.002226	1.52	13.07	8.66	0.39
unico	21	Max WS	TR_200 8H	19.59	248.98	251.91	251.01	252.02	0.002228	1.51	12.95	8.62	0.39
unico	21	Max WS	TR_200 12H	19.39	248.98	251.89	251.00	252.01	0.002237	1.51	12.84	8.59	0.39
unico	20	Max WS	TR_30 1H	11.84	248.76	251.11	249.95	251.17	0.001122	1.08	11.00	7.43	0.28
unico	20	Max WS	TR_30 2H	16.79	248.76	251.55	250.21	251.62	0.001084	1.16	14.51	8.52	0.28
unico	20	Max WS	TR_30 3H	18.54	248.76	251.65	250.29	251.72	0.001134	1.21	15.38	8.76	0.29
unico	20	Max WS	TR_30 4H	18.80	248.76	251.66	250.30	251.74	0.001145	1.21	15.48	8.79	0.29
unico	20	Max WS	TR_30 6H	18.63	248.76	251.66	250.29	251.73	0.001134	1.21	15.43	8.78	0.29
unico	20	Max WS	TR_30 8H	17.78	248.76	251.62	250.26	251.69	0.001093	1.18	15.11	8.69	0.28
unico	20	Max WS	TR_30 12H	14.84	248.76	251.40	250.11	251.46	0.001072	1.12	13.28	8.15	0.28
unico	20	Max WS	TR_200 1H	19.19	248.76	251.68	250.32	251.76	0.001162	1.23	15.64	8.84	0.29
unico	20	Max WS	TR_200 2H	19.88	248.76	251.72	250.35	251.80	0.001169	1.24	16.02	8.94	0.30
unico	20	Max WS	TR_200 3H	20.27	248.76	251.74	250.37	251.82	0.001188	1.25	16.16	8.98	0.30
unico	20	Max WS	TR_200 4H	20.23	248.76	251.73	250.37	251.81	0.001190	1.25	16.12	8.97	0.30
unico	20	Max WS	TR_200 6H	20.00	248.76	251.72	250.36	251.80	0.001184	1.25	16.02	8.94	0.30
unico	20	Max WS	TR_200 8H	19.73	248.76	251.71	250.34	251.79	0.001175	1.24	15.90	8.91	0.30
unico	20	Max WS	TR_200 12H	19.50	248.76	251.70	250.34	251.77	0.001169	1.23	15.79	8.88	0.30
unico	19	Max WS	TR_30 1H	11.84	248.51	250.97	249.78	251.03	0.001246	1.10	10.80	7.38	0.29
unico	19	Max WS	TR_30 2H	16.80	248.51	251.42	250.06	251.49	0.001180	1.17	14.36	8.60	0.29
unico	19	Max WS	TR_30 3H	18.58	248.51	251.51	250.14	251.59	0.001250	1.23	15.17	8.85	0.30
unico	19	Max WS	TR_30 4H	18.82	248.51	251.52	250.16	251.60	0.001263	1.23	15.25	8.88	0.30
unico	19	Max WS	TR_30 6H	18.69	248.51	251.52	250.15	251.59	0.001253	1.23	15.22	8.87	0.30
unico	19	Max WS	TR_30 8H	17.85	248.51	251.48	250.11	251.56	0.001200	1.19	14.94	8.78	0.29
unico	19	Max WS	TR_30 12H	14.90	248.51	251.27	249.96	251.34	0.001179	1.14	13.12	8.19	0.29
unico	19	Max WS	TR_200 1H	19.25	248.51	251.54	250.18	251.62	0.001291	1.25	15.39	8.92	0.30
unico	19	Max WS	TR_200 2H	20.11	248.51	251.57	250.22	251.66	0.001330	1.28	15.72	9.02	0.31
unico	19	Max WS	TR_200 3H	20.52	248.51	251.59	250.24	251.67	0.001359	1.30	15.83	9.06	0.31
unico	19	Max WS	TR_200 4H	20.44	248.51	251.58	250.24	251.67	0.001358	1.29	15.80	9.05	0.31
unico	19	Max WS	TR_200 6H	20.18	248.51	251.57	250.22	251.66	0.001343	1.28	15.71	9.02	0.31
unico	19	Max WS	TR_200 8H	19.88	248.51	251.56	250.21	251.64	0.001324	1.27	15.62	8.99	0.31
unico	19	Max WS	TR_200 12H	19.62	248.51	251.55	250.20	251.63	0.001310	1.26	15.52	8.96	0.31
unico	18.75	Max WS	TR_30 1H	11.84	248.47	250.92	249.75	250.98	0.001377	1.08	10.99	7.58	0.29
unico	18.75	Max WS	TR_30 2H	16.80	248.47	251.37	250.01	251.44	0.001292	1.14	14.69	8.84	0.28
unico	18.75	Max WS	TR_30 3H	18.58	248.47	251.46	250.10	251.54	0.001374	1.20	15.49	9.09	0.29
unico	18.75	Max WS	TR_30 4H	18.84	248.47	251.47	250.11	251.55	0.001393	1.21	15.57	9.12	0.30
unico	18.75	Max WS	TR_30 6H	18.71	248.47	251.47	250.10	251.54	0.001381	1.20	15.54	9.10	0.29
unico	18.75	Max WS	TR_30 8H	17.87	248.47	251.44	250.06	251.51	0.001319	1.17	15.27	9.02	0.29
unico	18.75	Max WS	TR_30 12H	14.92	248.47	251.23	249.92	251.29	0.001296	1.11	13.41	8.42	0.28
unico	18.75	Max WS	TR_200 1H	19.27	248.47	251.49	250.13	251.56	0.001427	1.23	15.69	9.15	0.30
unico	18.75	Max WS	TR_200 2H	20.19	248.47	251.52	250.18	251.60	0.001484	1.26	16.02	9.25	0.31
unico	18.75	Max WS	TR_200 3H	20.60	248.47	251.53	250.19	251.61	0.001520	1.28	16.12	9.28	0.31
unico	18.75	Max WS	TR_200 4H	20.52	248.47	251.53	250.19	251.61	0.001516	1.28	16.08	9.27	0.31
unico	18.75	Max WS	TR_200 6H	20.24	248.47	251.52	250.18	251.60	0.001496	1.27	16.00	9.25	0.31
unico	18.75	Max WS	TR_200 8H	19.93	248.47	251.51	250.16	251.59	0.001472	1.25	15.91	9.22	0.30
unico	18.75	Max WS	TR_200 12H	19.66	248.47	251.50	250.15	251.58	0.001453	1.24	15.82	9.19	0.30
unico	18.7			Lat Struct									
unico	18	Max WS	TR_30 1H	11.83	248.35	250.76	249.54	250.81	0.000967	1.00	11.81	8.16	0.27
unico	18	Max WS	TR_30 2H	16.81	248.35	251.23	249.80	251.28	0.000889	1.06	15.92	9.53	0.26

HEC-RAS River: Baregno Reach: unico 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)	
unico	18	Max WS	TR_30 3H	18.23	248.35	251.31	249.86	251.37	0.000912	1.09	16.72	9.67	0.26
unico	18	Max WS	TR_30 4H	18.41	248.35	251.32	249.87	251.38	0.000919	1.10	16.80	9.68	0.27
unico	18	Max WS	TR_30 6H	18.33	248.35	251.31	249.87	251.38	0.000915	1.09	16.77	9.68	0.27
unico	18	Max WS	TR_30 8H	17.70	248.35	251.29	249.84	251.35	0.000888	1.07	16.53	9.64	0.26
unico	18	Max WS	TR_30 12H	14.97	248.35	251.08	249.70	251.13	0.000900	1.03	14.51	9.10	0.26
unico	18	Max WS	TR_200 1H	18.74	248.35	251.33	249.89	251.39	0.000936	1.11	16.90	9.70	0.27
unico	18	Max WS	TR_200 2H	19.38	248.35	251.36	249.92	251.42	0.000956	1.13	17.19	9.75	0.27
unico	18	Max WS	TR_200 3H	19.67	248.35	251.37	249.93	251.43	0.000973	1.14	17.26	9.76	0.27
unico	18	Max WS	TR_200 4H	19.62	248.35	251.36	249.93	251.43	0.000972	1.14	17.23	9.76	0.27
unico	18	Max WS	TR_200 6H	19.43	248.35	251.36	249.92	251.42	0.000964	1.13	17.16	9.74	0.27
unico	18	Max WS	TR_200 8H	19.21	248.35	251.35	249.91	251.41	0.000954	1.12	17.09	9.73	0.27
unico	18	Max WS	TR_200 12H	19.02	248.35	251.34	249.90	251.40	0.000946	1.12	17.01	9.72	0.27
unico	17	Max WS	TR_30 1H	11.83	248.22	250.69	249.54	250.75	0.001367	1.11	10.68	7.65	0.30
unico	17	Max WS	TR_30 2H	16.81	248.22	251.16	249.88	251.23	0.001188	1.15	14.59	9.16	0.29
unico	17	Max WS	TR_30 3H	17.79	248.22	251.25	249.92	251.32	0.001123	1.15	15.49	10.82	0.28
unico	17	Max WS	TR_30 4H	17.87	248.22	251.26	249.93	251.33	0.001112	1.15	15.59	11.45	0.28
unico	17	Max WS	TR_30 6H	17.79	248.22	251.26	249.92	251.32	0.001110	1.15	15.55	11.20	0.28
unico	17	Max WS	TR_30 8H	17.46	248.22	251.23	249.91	251.30	0.001128	1.15	15.26	9.92	0.28
unico	17	Max WS	TR_30 12H	14.99	248.22	251.01	249.78	251.07	0.001228	1.13	13.26	8.54	0.29
unico	17	Max WS	TR_200 1H	18.03	248.22	251.27	249.93	251.34	0.001105	1.15	15.74	12.30	0.28
unico	17	Max WS	TR_200 2H	18.13	248.22	251.31	249.93	251.38	0.001032	1.13	16.29	14.33	0.27
unico	17	Max WS	TR_200 3H	18.24	248.22	251.32	249.94	251.39	0.001024	1.13	16.43	14.43	0.27
unico	17	Max WS	TR_200 4H	18.26	248.22	251.32	249.94	251.38	0.001036	1.14	16.36	14.38	0.27
unico	17	Max WS	TR_200 6H	18.23	248.22	251.31	249.94	251.37	0.001053	1.14	16.22	14.28	0.27
unico	17	Max WS	TR_200 8H	18.17	248.22	251.30	249.94	251.37	0.001066	1.14	16.08	14.00	0.28
unico	17	Max WS	TR_200 12H	18.12	248.22	251.29	249.93	251.36	0.001083	1.15	15.94	13.31	0.28
unico	16	Max WS	TR_30 1H	11.82	248.53	250.55	249.73	250.64	0.001917	1.31	9.02	7.00	0.37
unico	16	Max WS	TR_30 2H	16.81	248.53	251.04	249.98	251.13	0.001527	1.32	12.78	8.23	0.34
unico	16	Max WS	TR_30 3H	17.82	248.53	251.14	250.02	251.23	0.001456	1.31	13.58	8.47	0.33
unico	16	Max WS	TR_30 4H	17.90	248.53	251.15	250.03	251.24	0.001446	1.31	13.67	8.49	0.33
unico	16	Max WS	TR_30 6H	17.83	248.53	251.15	250.02	251.23	0.001443	1.31	13.64	8.48	0.33
unico	16	Max WS	TR_30 8H	17.50	248.53	251.12	250.01	251.20	0.001459	1.31	13.40	8.41	0.33
unico	16	Max WS	TR_30 12H	15.02	248.53	250.89	249.90	250.97	0.001610	1.30	11.51	7.83	0.34
unico	16	Max WS	TR_200 1H	18.07	248.53	251.16	250.04	251.25	0.001441	1.31	13.78	8.53	0.33
unico	16	Max WS	TR_200 2H	18.27	248.53	251.21	250.04	251.29	0.001369	1.29	14.17	8.64	0.32
unico	16	Max WS	TR_200 3H	18.38	248.53	251.22	250.05	251.30	0.001363	1.29	14.25	8.66	0.32
unico	16	Max WS	TR_200 4H	18.39	248.53	251.21	250.05	251.30	0.001375	1.29	14.21	8.65	0.32
unico	16	Max WS	TR_200 6H	18.34	248.53	251.20	250.05	251.29	0.001393	1.30	14.11	8.62	0.32
unico	16	Max WS	TR_200 8H	18.26	248.53	251.19	250.04	251.28	0.001406	1.30	14.02	8.60	0.33
unico	16	Max WS	TR_200 12H	18.19	248.53	251.18	250.04	251.27	0.001422	1.31	13.92	8.57	0.33
unico	15.5			Inl Struct									
unico	15	Max WS	TR_30 1H	11.81	247.86	250.50	249.25	250.55	0.001067	1.06	11.09	7.12	0.27
unico	15	Max WS	TR_30 2H	16.81	247.86	250.98	249.52	251.05	0.001007	1.14	14.81	8.22	0.27
unico	15	Max WS	TR_30 3H	17.82	247.86	251.08	249.57	251.14	0.000986	1.14	15.59	8.43	0.27
unico	15	Max WS	TR_30 4H	17.90	247.86	251.09	249.57	251.15	0.000981	1.14	15.68	8.45	0.27
unico	15	Max WS	TR_30 6H	17.83	247.86	251.08	249.57	251.15	0.000978	1.14	15.65	8.44	0.27
unico	15	Max WS	TR_30 8H	17.50	247.86	251.05	249.55	251.12	0.000981	1.14	15.41	8.38	0.27
unico	15	Max WS	TR_30 12H	15.02	247.86	250.83	249.43	250.89	0.001013	1.11	13.57	7.87	0.27
unico	15	Max WS	TR_200 1H	18.07	247.86	251.10	249.58	251.17	0.000981	1.14	15.79	8.48	0.27
unico	15	Max WS	TR_200 2H	18.27	247.86	251.14	249.59	251.21	0.000942	1.13	16.16	8.58	0.26
unico	15	Max WS	TR_200 3H	18.38	247.86	251.15	249.60	251.22	0.000940	1.13	16.25	8.60	0.26
unico	15	Max WS	TR_200 4H	18.39	247.86	251.15	249.60	251.21	0.000948	1.13	16.21	8.59	0.26
unico	15	Max WS	TR_200 6H	18.34	247.86	251.14	249.60	251.20	0.000958	1.14	16.11	8.57	0.26
unico	15	Max WS	TR_200 8H	18.26	247.86	251.13	249.59	251.19	0.000964	1.14	16.02	8.54	0.27
unico	15	Max WS	TR_200 12H	18.19	247.86	251.11	249.59	251.18	0.000972	1.14	15.93	8.52	0.27
unico	14	Max WS	TR_30 1H	11.80	247.79	250.36	249.14	250.42	0.001096	1.06	11.12	7.38	0.28
unico	14	Max WS	TR_30 2H	16.82	247.79	250.86	249.40	250.92	0.001005	1.11	15.18	8.95	0.27
unico	14	Max WS	TR_30 3H	17.85	247.79	250.96	249.45	251.02	0.000976	1.11	16.08	9.27	0.27
unico	14	Max WS	TR_30 4H	17.93	247.79	250.97	249.46	251.03	0.000971	1.11	16.17	9.30	0.27
unico	14	Max WS	TR_30 6H	17.88	247.79	250.96	249.46	251.03	0.000969	1.11	16.14	9.29	0.27
unico	14	Max WS	TR_30 8H	17.55	247.79	250.93	249.44	251.00	0.000975	1.11	15.88	9.20	0.27
unico	14	Max WS	TR_30 12H	15.05	247.79	250.70	249.31	250.76	0.001027	1.09	13.81	8.46	0.27
unico	14	Max WS	TR_200 1H	18.11	247.79	250.98	249.47	251.04	0.000971	1.11	16.29	9.34	0.27
unico	14	Max WS	TR_200 2H	18.43	247.79	251.03	249.48	251.09	0.000936	1.10	16.74	9.49	0.26
unico	14	Max WS	TR_200 3H	18.55	247.79	251.04	249.49	251.10	0.000935	1.10	16.84	9.52	0.26
unico	14	Max WS	TR_200 4H	18.54	247.79	251.03	249.49	251.09	0.000942	1.10	16.79	9.50	0.27
unico	14	Max WS	TR_200 6H	18.46	247.79	251.02	249.48	251.08	0.000951	1.11	16.67	9.47	0.27
unico	14	Max WS	TR_200 8H	18.36	247.79	251.01	249.48	251.07	0.000956	1.11	16.57	9.43	0.27
unico	14	Max WS	TR_200 12H	18.27	247.79	251.00	249.47	251.06	0.000964	1.11	16.45	9.39	0.27
unico	13	Max WS	TR_30 1H	11.80	247.48	250.23	248.74	250.27	0.000790	0.93	12.69	7.91	0.23
unico	13	Max WS	TR_30 2H	16.83	247.48	250.74	249.04	250.79	0.000731	0.99	16.99	9.02	0.23
unico	13	Max WS	TR_30 3H	17.89	247.48	250.84	249.10	250.89	0.000717	1.00	17.90	9.24	0.23
unico	13	Max WS	TR_30 4H	17.99	247.48	250.85	249.11	250.90	0.000714	1.00	18.01	9.26	0.23
unico	13	Max WS	TR_30 6H	17.94	247.48	250.85	249.10	250.90	0.000712	1.00	17.98	9.26	0.23
unico	13	Max WS	TR_30 8H	17.60	247.48	250.82	249.08	250.87	0.000714	0.99	17.71	9.19	0.23
unico	13	Max WS	TR_30 12H	15.10	247.48	250.58	248.94	250.63	0.000744	0.97	15.57	8.67	0.23
unico	13	Max WS	TR_200 1H	18.17	247.48	250.86	249.11	250.91	0.000715	1.00	18.13	9.29	0.23
unico	13	Max WS	TR_200 2H	18.62	247.48	250.91	249.13	250.96	0.000702	1.00	18.59	9.40	0.23
unico	13	Max WS	TR_200 3H	18.77	247.48	250.92	249.15	250.97	0.000703	1.00	18.68	9.42	0.23
unico	13	Max WS	TR_200 4H	18.73	247.48	250.92	249.14	250.97	0.000706	1.01	18.62	9.40	0.23

HEC-RAS River: Baregno Reach: unico 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)	
unico	13	Max WS	TR_200 6H	18.61	247.48	250.90	249.14	250.95	0.000710	1.01	18.50	9.38	0.23
unico	13	Max WS	TR_200 8H	18.49	247.48	250.89	249.13	250.94	0.000711	1.01	18.40	9.35	0.23
unico	13	Max WS	TR_200 12H	18.37	247.48	250.88	249.13	250.93	0.000714	1.00	18.28	9.33	0.23
unico	12	Max WS	TR_30 1H	11.80	247.50	250.14	248.80	250.18	0.000875	0.96	12.25	7.86	0.25
unico	12	Max WS	TR_30 2H	16.85	247.50	250.65	249.12	250.70	0.000784	1.01	16.62	9.05	0.24
unico	12	Max WS	TR_30 3H	17.92	247.50	250.75	249.17	250.81	0.000766	1.02	17.55	9.29	0.24
unico	12	Max WS	TR_30 4H	18.03	247.50	250.77	249.17	250.82	0.000763	1.02	17.66	9.31	0.24
unico	12	Max WS	TR_30 6H	17.99	247.50	250.76	249.17	250.82	0.000762	1.02	17.63	9.31	0.24
unico	12	Max WS	TR_30 8H	17.64	247.50	250.73	249.16	250.79	0.000764	1.02	17.36	9.24	0.24
unico	12	Max WS	TR_30 12H	15.13	247.50	250.49	249.02	250.54	0.000808	1.00	15.17	8.67	0.24
unico	12	Max WS	TR_200 1H	18.21	247.50	250.78	249.18	250.83	0.000763	1.02	17.78	9.34	0.24
unico	12	Max WS	TR_200 2H	18.76	247.50	250.83	249.20	250.88	0.000756	1.03	18.25	9.46	0.24
unico	12	Max WS	TR_200 3H	18.92	247.50	250.84	249.21	250.89	0.000759	1.03	18.34	9.48	0.24
unico	12	Max WS	TR_200 4H	18.86	247.50	250.83	249.20	250.89	0.000762	1.03	18.27	9.46	0.24
unico	12	Max WS	TR_200 6H	18.73	247.50	250.82	249.20	250.87	0.000763	1.03	18.16	9.43	0.24
unico	12	Max WS	TR_200 8H	18.59	247.50	250.81	249.20	250.86	0.000764	1.03	18.05	9.41	0.24
unico	12	Max WS	TR_200 12H	18.44	247.50	250.79	249.19	250.85	0.000766	1.03	17.93	9.38	0.24
unico	11.9			Lat Struct									
unico	11	Max WS	TR_30 1H	11.82	247.11	249.99	248.50	250.03	0.000668	0.88	13.46	8.08	0.22
unico	11	Max WS	TR_30 2H	16.87	247.11	250.52	248.79	250.57	0.000622	0.93	18.09	9.39	0.21
unico	11	Max WS	TR_30 3H	17.90	247.11	250.63	248.84	250.67	0.000604	0.94	19.09	9.58	0.21
unico	11	Max WS	TR_30 4H	17.99	247.11	250.64	248.85	250.69	0.000600	0.94	19.20	9.60	0.21
unico	11	Max WS	TR_30 6H	17.96	247.11	250.64	248.84	250.68	0.000601	0.94	19.17	9.59	0.21
unico	11	Max WS	TR_30 8H	17.69	247.11	250.61	248.83	250.65	0.000608	0.94	18.88	9.56	0.21
unico	11	Max WS	TR_30 12H	15.18	247.11	250.36	248.71	250.40	0.000637	0.92	16.55	8.98	0.22
unico	11	Max WS	TR_200 1H	18.08	247.11	250.65	248.85	250.70	0.000594	0.93	19.34	9.61	0.21
unico	11	Max WS	TR_200 2H	18.28	247.11	250.71	248.86	250.75	0.000565	0.92	19.85	9.67	0.21
unico	11	Max WS	TR_200 3H	18.31	247.11	250.72	248.86	250.76	0.000559	0.92	19.95	9.68	0.20
unico	11	Max WS	TR_200 4H	18.33	247.11	250.71	248.85	250.75	0.000567	0.92	19.87	9.68	0.21
unico	11	Max WS	TR_200 6H	18.33	247.11	250.70	248.86	250.74	0.000577	0.93	19.74	9.66	0.21
unico	11	Max WS	TR_200 8H	18.30	247.11	250.68	248.86	250.73	0.000585	0.93	19.62	9.65	0.21
unico	11	Max WS	TR_200 12H	18.25	247.11	250.67	248.85	250.72	0.000593	0.94	19.49	9.63	0.21
unico	10	Max WS	TR_30 1H	11.82	247.30	249.75	248.46	249.85	0.002635	1.44	8.18	3.50	0.30
unico	10	Max WS	TR_30 2H	16.87	247.30	250.23	248.74	250.37	0.003337	1.71	9.86	3.50	0.33
unico	10	Max WS	TR_30 3H	17.88	247.30	250.32	248.79	250.48	0.003438	1.75	10.20	3.50	0.33
unico	10	Max WS	TR_30 4H	17.95	247.30	250.34	248.80	250.49	0.003428	1.75	10.24	3.50	0.33
unico	10	Max WS	TR_30 6H	17.93	247.30	250.33	248.80	250.49	0.003430	1.75	10.23	3.50	0.33
unico	10	Max WS	TR_30 8H	17.68	247.30	250.30	248.78	250.46	0.003425	1.75	10.12	3.50	0.33
unico	10	Max WS	TR_30 12H	15.18	247.30	250.08	248.65	250.21	0.003101	1.63	9.33	3.50	0.32
unico	10	Max WS	TR_200 1H	18.02	247.30	250.35	248.80	250.51	0.003409	1.75	10.30	3.50	0.33
unico	10	Max WS	TR_200 2H	18.09	247.30	250.42	248.80	250.57	0.003242	1.72	10.54	3.50	0.32
unico	10	Max WS	TR_200 3H	18.06	247.30	250.43	248.80	250.58	0.003193	1.71	10.59	3.50	0.31
unico	10	Max WS	TR_200 4H	18.13	247.30	250.42	248.81	250.57	0.003252	1.72	10.54	3.50	0.32
unico	10	Max WS	TR_200 6H	18.18	247.30	250.40	248.81	250.55	0.003329	1.74	10.47	3.50	0.32
unico	10	Max WS	TR_200 8H	18.18	247.30	250.38	248.81	250.54	0.003374	1.75	10.41	3.50	0.32
unico	10	Max WS	TR_200 12H	18.17	247.30	250.37	248.81	250.52	0.003419	1.76	10.35	3.50	0.33
unico	9.5			Bridge									
unico	09	Max WS	TR_30 1H	11.82	247.28	249.49	248.58	249.67	0.005567	1.90	6.22	3.00	0.42
unico	09	Max WS	TR_30 2H	16.87	247.28	249.87	248.89	250.13	0.007414	2.29	7.35	3.00	0.47
unico	09	Max WS	TR_30 3H	17.85	247.28	249.95	248.95	250.23	0.007641	2.35	7.60	3.00	0.47
unico	09	Max WS	TR_30 4H	17.93	247.28	249.96	248.95	250.24	0.007590	2.35	7.64	3.00	0.47
unico	09	Max WS	TR_30 6H	17.90	247.28	249.96	248.95	250.24	0.007600	2.35	7.63	3.00	0.47
unico	09	Max WS	TR_30 8H	17.65	247.28	249.93	248.94	250.21	0.007613	2.34	7.54	3.00	0.47
unico	09	Max WS	TR_30 12H	15.18	247.28	249.75	248.79	249.99	0.006759	2.16	7.01	3.00	0.45
unico	09	Max WS	TR_200 1H	18.01	247.28	249.98	248.96	250.26	0.007494	2.34	7.71	3.00	0.46
unico	09	Max WS	TR_200 2H	18.07	247.28	250.09	248.96	250.35	0.006837	2.25	8.02	3.00	0.44
unico	09	Max WS	TR_200 3H	18.05	247.28	250.11	248.96	250.37	0.006669	2.23	8.09	3.00	0.43
unico	09	Max WS	TR_200 4H	18.13	247.28	250.09	248.96	250.35	0.006878	2.26	8.02	3.00	0.44
unico	09	Max WS	TR_200 6H	18.18	247.28	250.05	248.97	250.32	0.007138	2.30	7.92	3.00	0.45
unico	09	Max WS	TR_200 8H	18.18	247.28	250.03	248.97	250.30	0.007325	2.32	7.84	3.00	0.46
unico	09	Max WS	TR_200 12H	18.17	247.28	250.00	248.97	250.28	0.007522	2.34	7.75	3.00	0.47
unico	08	Max WS	TR_30 1H	12.06	246.60	249.01	248.06	249.11	0.002204	1.38	8.72	6.29	0.38
unico	08	Max WS	TR_30 2H	17.24	246.60	249.42	248.37	249.53	0.002170	1.50	11.51	7.33	0.38
unico	08	Max WS	TR_30 3H	18.37	246.60	249.52	248.43	249.63	0.002089	1.50	12.26	7.58	0.38
unico	08	Max WS	TR_30 4H	18.53	246.60	249.54	248.44	249.66	0.002047	1.49	12.44	7.64	0.37
unico	08	Max WS	TR_30 6H	18.49	246.60	249.54	248.44	249.65	0.002055	1.49	12.40	7.63	0.37
unico	08	Max WS	TR_30 8H	18.12	246.60	249.50	248.41	249.61	0.002110	1.50	12.08	7.52	0.38
unico	08	Max WS	TR_30 12H	15.54	246.60	249.30	248.28	249.41	0.002158	1.46	10.66	7.03	0.38
unico	08	Max WS	TR_200 1H	18.74	246.60	249.58	248.45	249.69	0.001988	1.48	12.68	7.72	0.37
unico	08	Max WS	TR_200 2H	19.60	246.60	249.73	248.49	249.83	0.001708	1.41	13.90	8.11	0.34
unico	08	Max WS	TR_200 3H	19.77	246.60	249.76	248.50	249.86	0.001655	1.40	14.16	8.19	0.34
unico	08	Max WS	TR_200 4H	19.62	246.60	249.73	248.49	249.83	0.001714	1.41	13.89	8.11	0.34
unico	08	Max WS	TR_200 6H	19.37	246.60	249.68	248.48	249.78	0.001809	1.44	13.48	7.98	0.35
unico	08	Max WS	TR_200 8H	19.17	246.60	249.64	248.47	249.75	0.001880	1.45	13.18	7.88	0.36
unico	08	Max WS	TR_200 12H	18.94	246.60	249.59	248.46	249.70	0.001973	1.48	12.82	7.76	0.37
unico	07	Max WS	TR_30 1H	12.23	246.42	248.70	247.98	248.83	0.003330	1.60	7.64	6.15	0.46
unico	07	Max WS	TR_30 2H	17.51	246.42	249.13	248.30	249.27	0.002881	1.66	10.56	7.25	0.44
unico	07	Max WS	TR_30 3H	18.76	246.42	249.25	248.37	249.38	0.002696	1.65	11.39	7.53	0.43

HEC-RAS River: Baregno Reach: unico 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)	
unico	07	Max WS	TR_30 4H	18.98	246.42	249.27	248.37	249.41	0.002626	1.64	11.61	7.60	0.42
unico	07	Max WS	TR_30 6H	18.93	246.42	249.27	248.38	249.41	0.002639	1.64	11.57	7.59	0.42
unico	07	Max WS	TR_30 8H	18.46	246.42	249.22	248.35	249.36	0.002736	1.65	11.20	7.46	0.43
unico	07	Max WS	TR_30 12H	15.81	246.42	249.01	248.21	249.15	0.002953	1.63	9.69	6.94	0.44
unico	07	Max WS	TR_200 1H	19.28	246.42	249.31	248.40	249.45	0.002531	1.62	11.91	7.70	0.42
unico	07	Max WS	TR_200 2H	20.73	246.42	249.50	248.46	249.62	0.002153	1.55	13.36	8.16	0.39
unico	07	Max WS	TR_200 3H	21.04	246.42	249.53	248.47	249.65	0.002092	1.54	13.66	8.25	0.38
unico	07	Max WS	TR_200 4H	20.73	246.42	249.50	248.46	249.62	0.002157	1.55	13.35	8.16	0.39
unico	07	Max WS	TR_200 6H	20.25	246.42	249.44	248.44	249.56	0.002271	1.57	12.87	8.01	0.40
unico	07	Max WS	TR_200 8H	19.91	246.42	249.39	248.42	249.52	0.002366	1.59	12.51	7.89	0.40
unico	07	Max WS	TR_200 12H	19.51	246.42	249.33	248.41	249.47	0.002500	1.62	12.07	7.75	0.41
unico	06	Max WS	TR_30 1H	12.45	246.57	248.55	247.47	248.60	0.000908	0.98	12.68	8.90	0.26
unico	06	Max WS	TR_30 2H	17.83	246.57	249.02	247.70	249.07	0.000841	1.03	17.25	10.59	0.26
unico	06	Max WS	TR_30 3H	19.21	246.57	249.14	247.75	249.19	0.000786	1.04	18.56	10.98	0.25
unico	06	Max WS	TR_30 4H	19.51	246.57	249.17	247.76	249.22	0.000767	1.03	18.90	11.05	0.25
unico	06	Max WS	TR_30 6H	19.45	246.57	249.16	247.76	249.22	0.000770	1.03	18.83	11.04	0.25
unico	06	Max WS	TR_30 8H	18.88	246.57	249.11	247.74	249.17	0.000798	1.03	18.26	10.91	0.25
unico	06	Max WS	TR_30 12H	16.13	246.57	248.89	247.63	248.94	0.000861	1.01	15.91	10.26	0.26
unico	06	Max WS	TR_200 1H	19.91	246.57	249.21	247.78	249.27	0.000741	1.03	19.36	11.15	0.25
unico	06	Max WS	TR_200 2H	22.04	246.57	249.40	247.85	249.46	0.000659	1.03	21.75	14.42	0.23
unico	06	Max WS	TR_200 3H	22.52	246.57	249.44	247.86	249.49	0.000649	1.03	22.28	15.18	0.23
unico	06	Max WS	TR_200 4H	22.02	246.57	249.40	247.84	249.45	0.000659	1.03	21.73	14.39	0.23
unico	06	Max WS	TR_200 6H	21.27	246.57	249.34	247.82	249.39	0.000680	1.03	20.88	13.10	0.24
unico	06	Max WS	TR_200 8H	20.76	246.57	249.29	247.81	249.35	0.000701	1.03	20.29	12.11	0.24
unico	06	Max WS	TR_200 12H	20.17	246.57	249.23	247.78	249.29	0.000732	1.03	19.61	11.20	0.24
unico	5.5			Bridge									
unico	05.3	Max WS	TR_30 1H	12.44	246.55	248.51	247.44	248.56	0.000848	0.97	12.80	9.17	0.26
unico	05.3	Max WS	TR_30 2H	17.83	246.55	248.86	247.65	248.92	0.000842	1.12	16.37	11.30	0.27
unico	05.3	Max WS	TR_30 3H	19.21	246.55	248.94	247.70	249.01	0.000833	1.15	17.36	12.28	0.27
unico	05.3	Max WS	TR_30 4H	19.51	246.55	248.97	247.71	249.03	0.000824	1.15	17.65	12.62	0.27
unico	05.3	Max WS	TR_30 6H	19.44	246.55	248.96	247.71	249.03	0.000825	1.15	17.59	12.55	0.27
unico	05.3	Max WS	TR_30 8H	18.87	246.55	248.93	247.69	248.99	0.000833	1.14	17.13	11.99	0.27
unico	05.3	Max WS	TR_30 12H	16.13	246.55	248.77	247.59	248.83	0.000823	1.07	15.36	10.74	0.26
unico	05.3	Max WS	TR_200 1H	19.91	246.55	249.00	247.73	249.06	0.000813	1.15	18.03	13.07	0.26
unico	05.3	Max WS	TR_200 2H	22.04	246.55	249.15	247.80	249.22	0.000758	1.17	20.22	15.38	0.26
unico	05.3	Max WS	TR_200 3H	22.52	246.55	249.18	247.82	249.25	0.000746	1.18	20.75	15.89	0.26
unico	05.3	Max WS	TR_200 4H	22.02	246.55	249.15	247.80	249.22	0.000758	1.17	20.20	15.36	0.26
unico	05.3	Max WS	TR_200 6H	21.27	246.55	249.10	247.78	249.16	0.000777	1.17	19.39	14.55	0.26
unico	05.3	Max WS	TR_200 8H	20.76	246.55	249.06	247.76	249.13	0.000790	1.16	18.87	14.00	0.26
unico	05.3	Max WS	TR_200 12H	20.17	246.55	249.01	247.74	249.08	0.000811	1.16	18.24	13.31	0.26
unico	05.2	Max WS	TR_30 1H	12.44	246.55	248.51	247.44	248.56	0.000847	0.97	12.80	9.17	0.26
unico	05.2	Max WS	TR_30 2H	17.83	246.55	248.86	247.66	248.92	0.000842	1.12	16.37	11.30	0.27
unico	05.2	Max WS	TR_30 3H	19.21	246.55	248.94	247.71	249.01	0.000833	1.15	17.36	12.28	0.27
unico	05.2	Max WS	TR_30 4H	19.51	246.55	248.97	247.72	249.03	0.000824	1.15	17.65	12.62	0.27
unico	05.2	Max WS	TR_30 6H	19.44	246.55	248.96	247.71	249.03	0.000826	1.15	17.59	12.55	0.27
unico	05.2	Max WS	TR_30 8H	18.87	246.55	248.93	247.69	248.99	0.000833	1.14	17.13	11.99	0.27
unico	05.2	Max WS	TR_30 12H	16.13	246.55	248.77	247.59	248.83	0.000824	1.07	15.36	10.74	0.26
unico	05.2	Max WS	TR_200 1H	19.91	246.55	249.00	247.73	249.06	0.000813	1.15	18.03	13.07	0.26
unico	05.2	Max WS	TR_200 2H	22.04	246.55	249.15	247.80	249.22	0.000758	1.17	20.22	15.38	0.26
unico	05.2	Max WS	TR_200 3H	22.52	246.55	249.18	247.82	249.25	0.000746	1.18	20.74	15.89	0.26
unico	05.2	Max WS	TR_200 4H	22.02	246.55	249.15	247.80	249.22	0.000758	1.17	20.20	15.36	0.26
unico	05.2	Max WS	TR_200 6H	21.27	246.55	249.10	247.78	249.16	0.000777	1.17	19.39	14.55	0.26
unico	05.2	Max WS	TR_200 8H	20.76	246.55	249.06	247.75	249.13	0.000790	1.16	18.87	14.00	0.26
unico	05.2	Max WS	TR_200 12H	20.17	246.55	249.01	247.74	249.08	0.000811	1.16	18.24	13.30	0.26
unico	5.1			Inl Struct									
unico	05	Max WS	TR_30 1H	12.44	245.90	248.45	247.01	248.49	0.000601	0.86	14.43	8.80	0.21
unico	05	Max WS	TR_30 2H	17.83	245.90	248.79	247.27	248.84	0.000661	1.02	17.73	10.85	0.23
unico	05	Max WS	TR_30 3H	19.21	245.90	248.87	247.33	248.93	0.000666	1.06	18.65	11.33	0.23
unico	05	Max WS	TR_30 4H	19.51	245.90	248.89	247.33	248.95	0.000662	1.06	18.90	11.48	0.23
unico	05	Max WS	TR_30 6H	19.44	245.90	248.89	247.33	248.94	0.000663	1.06	18.85	11.41	0.23
unico	05	Max WS	TR_30 8H	18.87	245.90	248.85	247.31	248.91	0.000664	1.05	18.44	11.24	0.23
unico	05	Max WS	TR_30 12H	16.13	245.90	248.70	247.19	248.75	0.000631	0.97	16.80	10.32	0.22
unico	05	Max WS	TR_200 1H	19.91	245.90	248.92	247.35	248.98	0.000658	1.07	19.25	11.92	0.23
unico	05	Max WS	TR_200 2H	22.04	245.90	249.07	247.44	249.13	0.000635	1.10	21.19	14.16	0.23
unico	05	Max WS	TR_200 3H	22.52	245.90	249.10	247.46	249.16	0.000628	1.10	21.67	14.66	0.23
unico	05	Max WS	TR_200 4H	22.02	245.90	249.07	247.43	249.13	0.000634	1.10	21.18	14.15	0.23
unico	05	Max WS	TR_200 6H	21.27	245.90	249.02	247.40	249.08	0.000643	1.09	20.46	13.36	0.23
unico	05	Max WS	TR_200 8H	20.76	245.90	248.98	247.39	249.04	0.000648	1.08	19.99	12.81	0.23
unico	05	Max WS	TR_200 12H	20.17	245.90	248.94	247.36	248.99	0.000659	1.07	19.43	12.14	0.23
unico	04	Max WS	TR_30 1H	12.67	246.03	248.38	247.24	248.42	0.000790	0.89	14.26	10.96	0.25
unico	04	Max WS	TR_30 2H	18.16	246.03	248.71	247.51	248.76	0.000846	1.00	18.10	12.18	0.26
unico	04	Max WS	TR_30 3H	19.68	246.03	248.79	247.56	248.85	0.000857	1.03	19.11	12.48	0.27
unico	04	Max WS	TR_30 4H	20.06	246.03	248.82	247.58	248.87	0.000856	1.03	19.39	12.57	0.27
unico	04	Max WS	TR_30 6H	19.98	246.03	248.81	247.58	248.87	0.000856	1.03	19.34	12.55	0.27
unico	04	Max WS	TR_30 8H	19.31	246.03	248.78	247.55	248.83	0.000852	1.02	18.89	12.42	0.26
unico	04	Max WS	TR_30 12H	16.43	246.03	248.63	247.43	248.67	0.000813	0.96	17.07	11.87	0.26
unico	04	Max WS	TR_200 1H	20.57	246.03	248.85	247.60	248.90	0.000855	1.04	19.76	12.67	0.27
unico	04	Max WS	TR_200 2H	23.39	246.03	248.99	247.70	249.05	0.000844	1.08	21.87	15.52	0.27
unico	04	Max WS	TR_200 3H	24.06	246.03	249.03	247.72	249.09	0.000841	1.09	22.38	15.58	0.27

HEC-RAS River: Baregno Reach: unico 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)	
unico	04	Max WS	TR_200 4H	23.36	246.03	248.99	247.69	249.05	0.000843	1.08	21.86	15.52	0.27
unico	04	Max WS	TR_200 6H	22.33	246.03	248.94	247.66	249.00	0.000847	1.06	21.07	15.41	0.27
unico	04	Max WS	TR_200 8H	21.65	246.03	248.91	247.64	248.96	0.000851	1.05	20.54	14.15	0.27
unico	04	Max WS	TR_200 12H	20.86	246.03	248.86	247.61	248.92	0.000858	1.05	19.95	12.73	0.27
unico	03	Max WS	TR_30 1H	12.86	245.83	248.25	247.18	248.31	0.001340	1.12	11.46	8.51	0.31
unico	03	Max WS	TR_30 2H	18.44	245.83	248.55	247.47	248.64	0.001545	1.29	14.25	9.53	0.34
unico	03	Max WS	TR_30 3H	20.08	245.83	248.63	247.55	248.72	0.001608	1.34	14.96	9.77	0.35
unico	03	Max WS	TR_30 4H	20.53	245.83	248.65	247.57	248.74	0.001624	1.35	15.16	9.84	0.35
unico	03	Max WS	TR_30 6H	20.44	245.83	248.64	247.56	248.74	0.001620	1.35	15.12	9.83	0.35
unico	03	Max WS	TR_30 8H	19.68	245.83	248.61	247.53	248.70	0.001590	1.33	14.80	9.72	0.34
unico	03	Max WS	TR_30 12H	16.73	245.83	248.48	247.40	248.55	0.001463	1.24	13.52	9.27	0.33
unico	03	Max WS	TR_200 1H	21.13	245.83	248.67	247.59	248.77	0.001644	1.37	15.42	9.93	0.35
unico	03	Max WS	TR_200 2H	24.53	245.83	248.80	247.72	248.91	0.001784	1.47	16.72	10.36	0.37
unico	03	Max WS	TR_200 3H	25.36	245.83	248.83	247.75	248.95	0.001807	1.49	17.02	10.55	0.37
unico	03	Max WS	TR_200 4H	24.50	245.83	248.80	247.72	248.91	0.001780	1.47	16.72	10.36	0.37
unico	03	Max WS	TR_200 6H	23.23	245.83	248.76	247.67	248.86	0.001725	1.43	16.26	10.21	0.36
unico	03	Max WS	TR_200 8H	22.40	245.83	248.73	247.64	248.83	0.001687	1.40	15.95	10.11	0.36
unico	03	Max WS	TR_200 12H	21.45	245.83	248.69	247.60	248.78	0.001657	1.38	15.55	9.97	0.35
unico	2.2	Max WS	TR_30 1H	13.02	245.81	248.09	247.10	248.17	0.001793	1.24	10.49	7.65	0.34
unico	2.2	Max WS	TR_30 2H	18.67	245.81	248.37	247.39	248.48	0.002202	1.46	13.26	15.51	0.38
unico	2.2	Max WS	TR_30 3H	20.40	245.81	248.43	247.47	248.55	0.002302	1.52	14.39	19.16	0.39
unico	2.2	Max WS	TR_30 4H	20.91	245.81	248.45	247.49	248.57	0.002325	1.54	14.71	19.87	0.39
unico	2.2	Max WS	TR_30 6H	20.81	245.81	248.45	247.49	248.56	0.002320	1.53	14.65	19.74	0.39
unico	2.2	Max WS	TR_30 8H	19.99	245.81	248.42	247.45	248.53	0.002278	1.50	14.13	18.59	0.39
unico	2.2	Max WS	TR_30 12H	16.98	245.81	248.30	247.31	248.40	0.002066	1.40	12.34	12.45	0.37
unico	2.2	Max WS	TR_200 1H	21.58	245.81	248.47	247.52	248.59	0.002349	1.55	15.18	20.84	0.40
unico	2.2	Max WS	TR_200 2H	25.45	245.81	248.59	247.67	248.72	0.002445	1.66	17.90	26.03	0.41
unico	2.2	Max WS	TR_200 3H	26.43	245.81	248.62	247.71	248.75	0.002446	1.68	18.65	26.73	0.41
unico	2.2	Max WS	TR_200 4H	25.44	245.81	248.59	247.67	248.72	0.002441	1.66	17.90	26.03	0.41
unico	2.2	Max WS	TR_200 6H	23.98	245.81	248.55	247.61	248.67	0.002417	1.62	16.85	24.12	0.40
unico	2.2	Max WS	TR_200 8H	23.02	245.81	248.52	247.58	248.65	0.002381	1.59	16.24	22.93	0.40
unico	2.2	Max WS	TR_200 12H	21.93	245.81	248.48	247.53	248.61	0.002359	1.56	15.44	21.36	0.40
unico	02	Max WS	TR_30 1H	13.06	245.81	248.06	247.09	248.14	0.001723	1.28	10.21	7.48	0.35
unico	02	Max WS	TR_30 2H	18.72	245.81	248.33	247.37	248.44	0.002044	1.48	14.01	20.99	0.38
unico	02	Max WS	TR_30 3H	20.48	245.81	248.39	247.46	248.51	0.002080	1.53	15.48	23.77	0.39
unico	02	Max WS	TR_30 4H	21.00	245.81	248.41	247.47	248.53	0.002096	1.54	15.89	24.49	0.39
unico	02	Max WS	TR_30 6H	20.90	245.81	248.41	247.47	248.52	0.002092	1.54	15.81	24.36	0.39
unico	02	Max WS	TR_30 8H	20.07	245.81	248.38	247.44	248.49	0.002068	1.52	15.15	23.18	0.39
unico	02	Max WS	TR_30 12H	17.04	245.81	248.26	247.29	248.36	0.001962	1.43	12.72	17.02	0.38
unico	02	Max WS	TR_200 1H	21.69	245.81	248.43	247.50	248.55	0.002111	1.56	16.46	25.46	0.39
unico	02	Max WS	TR_200 2H	25.68	245.81	248.55	247.66	248.68	0.002152	1.65	19.75	30.73	0.40
unico	02	Max WS	TR_200 3H	26.70	245.81	248.58	247.70	248.71	0.002137	1.66	20.64	30.85	0.40
unico	02	Max WS	TR_200 4H	25.67	245.81	248.55	247.66	248.68	0.002150	1.65	19.75	30.73	0.40
unico	02	Max WS	TR_200 6H	24.17	245.81	248.51	247.60	248.63	0.002131	1.62	18.53	28.92	0.40
unico	02	Max WS	TR_200 8H	23.18	245.81	248.48	247.56	248.60	0.002109	1.59	17.77	27.70	0.40
unico	02	Max WS	TR_200 12H	22.05	245.81	248.45	247.52	248.57	0.002113	1.57	16.76	25.99	0.39
unico	01	Max WS	TR_30 1H	13.06	245.70	247.92	247.01	248.00	0.001606	1.24	11.12	15.38	0.34
unico	01	Max WS	TR_30 2H	18.72	245.70	248.19	247.29	248.28	0.001607	1.37	16.55	24.50	0.35
unico	01	Max WS	TR_30 3H	20.48	245.70	248.26	247.36	248.35	0.001603	1.41	18.22	26.69	0.35
unico	01	Max WS	TR_30 4H	21.00	245.70	248.28	247.38	248.37	0.001606	1.42	18.69	27.25	0.35
unico	01	Max WS	TR_30 6H	20.90	245.70	248.27	247.37	248.37	0.001606	1.42	18.60	27.14	0.35
unico	01	Max WS	TR_30 8H	20.07	245.70	248.25	247.34	248.34	0.001600	1.40	17.85	26.23	0.35
unico	01	Max WS	TR_30 12H	17.04	245.70	248.13	247.21	248.21	0.001609	1.33	14.97	22.22	0.35
unico	01	Max WS	TR_200 1H	21.69	245.70	248.30	247.41	248.39	0.001607	1.44	19.33	27.99	0.36
unico	01	Max WS	TR_200 2H	25.68	245.70	248.42	247.56	248.52	0.001605	1.50	22.77	29.37	0.36
unico	01	Max WS	TR_200 3H	26.70	245.70	248.45	247.60	248.55	0.001601	1.52	23.60	29.37	0.36
unico	01	Max WS	TR_200 4H	25.67	245.70	248.42	247.56	248.52	0.001605	1.50	22.77	29.37	0.36
unico	01	Max WS	TR_200 6H	24.16	245.70	248.38	247.50	248.47	0.001604	1.48	21.55	29.37	0.36
unico	01	Max WS	TR_200 8H	23.18	245.70	248.35	247.47	248.45	0.001601	1.46	20.74	29.37	0.36
unico	01	Max WS	TR_200 12H	22.05	245.70	248.31	247.42	248.41	0.001607	1.44	19.67	28.37	0.36

HEC-RAS River: Baregno Reach: unico 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)
unico	32.9	Max WS	TR_30 1H	11.99	0.00	11.99	0.00					254.47	253.48	253.42	253.38	253.35
unico	32.9	Max WS	TR_30 2H	16.77	0.00	16.77	0.00					254.47	254.20	254.16	254.15	254.12
unico	32.9	Max WS	TR_30 3H	18.54	0.01	18.53	0.01		2.71	0.05	0.02	254.47	254.55	254.52	254.50	254.48
unico	32.9	Max WS	TR_30 4H	19.01	0.30	18.70	0.30		9.87	0.17	0.08	254.47	254.66	254.64	254.62	254.60
unico	32.9	Max WS	TR_30 6H	18.45	0.02	18.42	0.02		3.29	0.06	0.03	254.47	254.56	254.53	254.51	254.49
unico	32.9	Max WS	TR_30 8H	17.32	0.00	17.32	0.00					254.47	254.31	254.26	254.25	254.22
unico	32.9	Max WS	TR_30 12H	14.47	0.00	14.47	0.00					254.47	253.87	253.82	253.80	253.77
unico	32.9	Max WS	TR_200 1H	25.29	4.87	20.41	4.87		30.57	0.51	0.25	254.47	254.99	254.98	254.97	254.95
unico	32.9	Max WS	TR_200 2H	36.83	14.34	22.48	14.34		47.43	0.77	0.39	254.47	255.26	255.24	255.25	255.22
unico	32.9	Max WS	TR_200 3H	42.05	18.85	23.19	18.85		52.95	0.86	0.44	254.47	255.35	255.33	255.34	255.32
unico	32.9	Max WS	TR_200 4H	43.31	19.97	23.35	19.97		54.21	0.88	0.45	254.47	255.37	255.35	255.36	255.34
unico	32.9	Max WS	TR_200 6H	40.53	17.54	22.98	17.54		51.45	0.84	0.42	254.47	255.32	255.31	255.31	255.29
unico	32.9	Max WS	TR_200 8H	36.39	13.99	22.39	13.99		46.95	0.77	0.39	254.47	255.25	255.24	255.24	255.22
unico	32.9	Max WS	TR_200 12H	29.84	8.52	21.32	8.52		38.31	0.63	0.32	254.47	255.11	255.10	255.10	255.08
unico	29.38	Max WS	TR_30 1H	11.82	0.00	11.81	0.00					253.99	252.92	252.87	252.76	252.70
unico	29.38	Max WS	TR_30 2H	16.69	0.00	16.71	0.00					253.99	253.41	253.35	253.27	253.22
unico	29.38	Max WS	TR_30 3H	18.26	0.00	18.29	0.00					253.99	253.67	253.62	253.57	253.52
unico	29.38	Max WS	TR_30 4H	18.48	0.00	18.53	0.00					253.99	253.79	253.75	253.71	253.67
unico	29.38	Max WS	TR_30 6H	18.26	0.00	18.30	0.00					253.99	253.69	253.64	253.59	253.55
unico	29.38	Max WS	TR_30 8H	17.32	0.00	17.39	0.00					253.99	253.48	253.43	253.35	253.30
unico	29.38	Max WS	TR_30 12H	14.47	0.00	14.53	0.00					253.99	253.20	253.15	253.06	253.00
unico	29.38	Max WS	TR_200 1H	20.41	0.00	20.45	0.00					253.99	254.00	253.96	253.93	253.89
unico	29.38	Max WS	TR_200 2H	22.49	0.02	22.57	0.02		9.24	0.03	0.02	253.99	254.09	254.04	254.01	253.97
unico	29.38	Max WS	TR_200 3H	23.21	0.08	23.32	0.08		15.76	0.05	0.03	253.99	254.11	254.07	254.03	253.99
unico	29.38	Max WS	TR_200 4H	23.40	0.10	23.50	0.10		17.16	0.06	0.03	253.99	254.12	254.07	254.04	253.99
unico	29.38	Max WS	TR_200 6H	23.05	0.06	23.16	0.06		14.27	0.05	0.02	253.99	254.11	254.06	254.03	253.98
unico	29.38	Max WS	TR_200 8H	22.45	0.02	22.58	0.02		9.61	0.03	0.02	253.99	254.09	254.05	254.01	253.97
unico	29.38	Max WS	TR_200 12H	21.37	0.00	21.48	0.00					253.99	254.05	254.01	253.98	253.94
unico	26.35	Max WS	TR_30 1H	11.85	0.00	11.88	0.00					253.66	252.66	252.62	252.56	252.49
unico	26.35	Max WS	TR_30 2H	16.75	0.00	16.78	0.00					253.66	253.19	253.15	253.10	253.02
unico	26.35	Max WS	TR_30 3H	18.34	0.00	18.38	0.00					253.66	253.50	253.47	253.44	253.36
unico	26.35	Max WS	TR_30 4H	18.58	0.00	18.62	0.00					253.66	253.65	253.62	253.60	253.53
unico	26.35	Max WS	TR_30 6H	18.36	0.00	18.41	0.00					253.66	253.53	253.49	253.46	253.39
unico	26.35	Max WS	TR_30 8H	17.47	0.00	17.53	0.00					253.66	253.27	253.23	253.19	253.10
unico	26.35	Max WS	TR_30 12H	14.59	0.00	14.65	0.00					253.66	252.96	252.92	252.87	252.80
unico	26.35	Max WS	TR_200 1H	20.50	1.53	19.02	1.53		45.72	0.18	0.09	253.66	253.88	253.85	253.84	253.78
unico	26.35	Max WS	TR_200 2H	22.72	3.68	19.16	3.68		64.92	0.26	0.13	253.66	253.95	253.92	253.92	253.87
unico	26.35	Max WS	TR_200 3H	23.56	4.32	19.43	4.32		69.25	0.27	0.14	253.66	253.97	253.93	253.94	253.88
unico	26.35	Max WS	TR_200 4H	23.73	4.48	19.44	4.48		70.21	0.28	0.14	253.66	253.98	253.94	253.95	253.89
unico	26.35	Max WS	TR_200 6H	23.36	4.19	19.34	4.19		68.34	0.27	0.13	253.66	253.97	253.93	253.94	253.88
unico	26.35	Max WS	TR_200 8H	22.75	3.72	19.17	3.72		65.23	0.26	0.13	253.66	253.95	253.92	253.92	253.87
unico	26.35	Max WS	TR_200 12H	21.62	2.66	19.07	2.66		57.03	0.22	0.11	253.66	253.92	253.89	253.89	253.83
unico	18.7	Max WS	TR_30 1H	11.84	0.00	11.82	0.00					251.21	250.98	250.92	250.67	250.59
unico	18.7	Max WS	TR_30 2H	16.80	0.01	16.81	0.01		9.95	0.02	0.01	251.21	251.44	251.37	251.16	251.08
unico	18.7	Max WS	TR_30 3H	18.58	0.85	17.81	0.85		61.61	0.10	0.05	251.21	251.54	251.46	251.25	251.17
unico	18.7	Max WS	TR_30 4H	18.84	1.04	17.89	1.04		67.00	0.11	0.05	251.21	251.55	251.47	251.26	251.18
unico	18.7	Max WS	TR_30 6H	18.71	0.96	17.82	0.96		64.90	0.10	0.05	251.21	251.54	251.47	251.26	251.18
unico	18.7	Max WS	TR_30 8H	17.87	0.49	17.49	0.49		48.95	0.08	0.04	251.21	251.51	251.44	251.23	251.15
unico	18.7	Max WS	TR_30 12H	14.92	0.00	15.01	0.00					251.21	251.29	251.22	251.00	250.92
unico	18.7	Max WS	TR_200 1H	19.27	1.32	18.06	1.32		74.32	0.12	0.06	251.21	251.56	251.49	251.28	251.19
unico	18.7	Max WS	TR_200 2H	20.19	2.37	18.23	2.37		93.90	0.15	0.07	251.21	251.60	251.52	251.32	251.24
unico	18.7	Max WS	TR_200 3H	20.60	2.71	18.34	2.71		98.19	0.16	0.08	251.21	251.61	251.53	251.33	251.25
unico	18.7	Max WS	TR_200 4H	20.52	2.57	18.35	2.57		96.44	0.15	0.08	251.21	251.61	251.53	251.32	251.24
unico	18.7	Max WS	TR_200 6H	20.24	2.26	18.31	2.26		92.38	0.15	0.07	251.21	251.60	251.52	251.31	251.23
unico	18.7	Max WS	TR_200 8H	19.93	1.97	18.24	1.97		88.20	0.14	0.07	251.21	251.59	251.51	251.30	251.22
unico	18.7	Max WS	TR_200 12H	19.66	1.69	18.18	1.69		82.54	0.13	0.06	251.21	251.58	251.50	251.29	251.21
unico	11.9	Max WS	TR_30 1H	11.80	0.00	11.82	0.00					250.58	250.18	250.14	249.85	249.75
unico	11.9	Max WS	TR_30 2H	16.85	0.00	16.87	0.00					250.58	250.70	250.65	250.37	250.23
unico	11.9	Max WS	TR_30 3H	17.92	0.09	17.88	0.09		18.25	0.05	0.02	250.58	250.81	250.75	250.48	250.32
unico	11.9	Max WS	TR_30 4H	18.03	0.15	17.95	0.15		22.43	0.06	0.03	250.58	250.82	250.77	250.49	250.34
unico	11.9	Max WS	TR_30 6H	17.99	0.13	17.93	0.13		21.38	0.06	0.03	250.58	250.82	250.76	250.49	250.33
unico	11.9	Max WS	TR_30 8H	17.64	0.02	17.68	0.02		10.24	0.03	0.01	250.58	250.79	250.73	250.46	250.30
unico	11.9	Max WS	TR_30 12H	15.13	0.00	15.18	0.00					250.58	250.54	250.49	250.21	250.08
unico	11.9	Max WS	TR_200 1H	18.21	0.24	18.02	0.24		27.89	0.07	0.04	250.58	250.83	250.78	250.51	250.35
unico	11.9	Max WS	TR_200 2H	18.76	0.91	18.09	0.91		47.71	0.13	0.06	250.58	250.88	250.83	250.57	250.42
unico	11.9	Max WS	TR_200 3H	18.92	1.10	18.06	1.10		51.51	0.14	0.07	250.58	250.89	250.84	250.58	250.43
unico	11.9	Max WS	TR_200 4H	18.86	0.96	18.13	0.96		48.73	0.13	0.06	250.58	250.89	250.83	250.57	250.42
unico	11.9	Max WS	TR_200 6H	18.73	0.73	18.18	0.73		43.56	0.12	0.06	250.58	250.87	250.82	250.55	250.40
unico	11.9	Max WS	TR_200 8H	18.59	0.56	18.18	0.56		39.14	0.10	0.05	250.58	250.86	250.81	250.54	250.38
unico	11.9	Max WS	TR_200 12H	18.44	0.40	18.17	0.40		34.06	0.09	0.04	250.58	250.85	250.79	250.52	250.37

CANALE FUGA DI TORRITA

1) TR_200 4H 2) TR_30 4H

Fuga di Torrita Fuga

N.B. in grigio sono indicati gli sfioratori laterali in destra idrografica

Legend

WS Max WS - TR_200 4H

WS Max WS - TR_30 4H

Ground

Elevation (m)

260
255
250
245
240
235

0
1000
2000
3000
4000
5000
6000
7000

Main Channel Distance (m)

1.33333* 1.66666* 2 2.6* 3.14285* 3.71428* 5 5.375* 5.75* 6.11111* 6.44444* 6.77777* 7.125 7.5* 7.875* 8.5 9.57142* 10.1428* 10.7142* 11.25* 11.625* 12.125* 12.625 13.125* 13.625* 14.5 15.25* 15.5* 15.75* 16 16.3* 16.6* 16.9* 17.9 18.4* 18.8* 19.2* 19.5* 19.8* 20.2* 20.6* 21 23 25.0714* 25.2857 25.5* 25.7142* 25.9285* 26.2* 26.5* 26.8* 27.4* 28.5 30 30.8* 33.2* 33.8* 34.4* 35 35.8* 36.5* 37.2* 37.8* 39.4* 40.1428* 40.7142* 41.4* 42.2* 43 43.75* 45.6666* 46.4* 47.1666* 47.7666* 48.1666* 48.8333* 50.6666* 51.5* 52.1428* 52.5714* 53 54.5* 55.1666* 55.8333 56.3333* 56.8333* 57.4* 58.125* 58.5* 58.875* 60.3333* 60.8333* 61.375* 61.875* 63.25* 63.625* 64 64.8* 65.5* 66.2* 67 67.375* 67.75* 69.1* 69.5* 69.8* 70.125* 70.5* 70.875

1 cm Horiz. = 198 m 1 cm Vert. = 1 m

1) TR_200 4H 2) TR_30 4H

Fuga di Torrita Fuga

N.B. in grigio sono indicati gli sfioratori laterali in sinistra idrografica

Legend

WS Max WS - TR_200 4H

WS Max WS - TR_30 4H

Ground

Elevation (m)

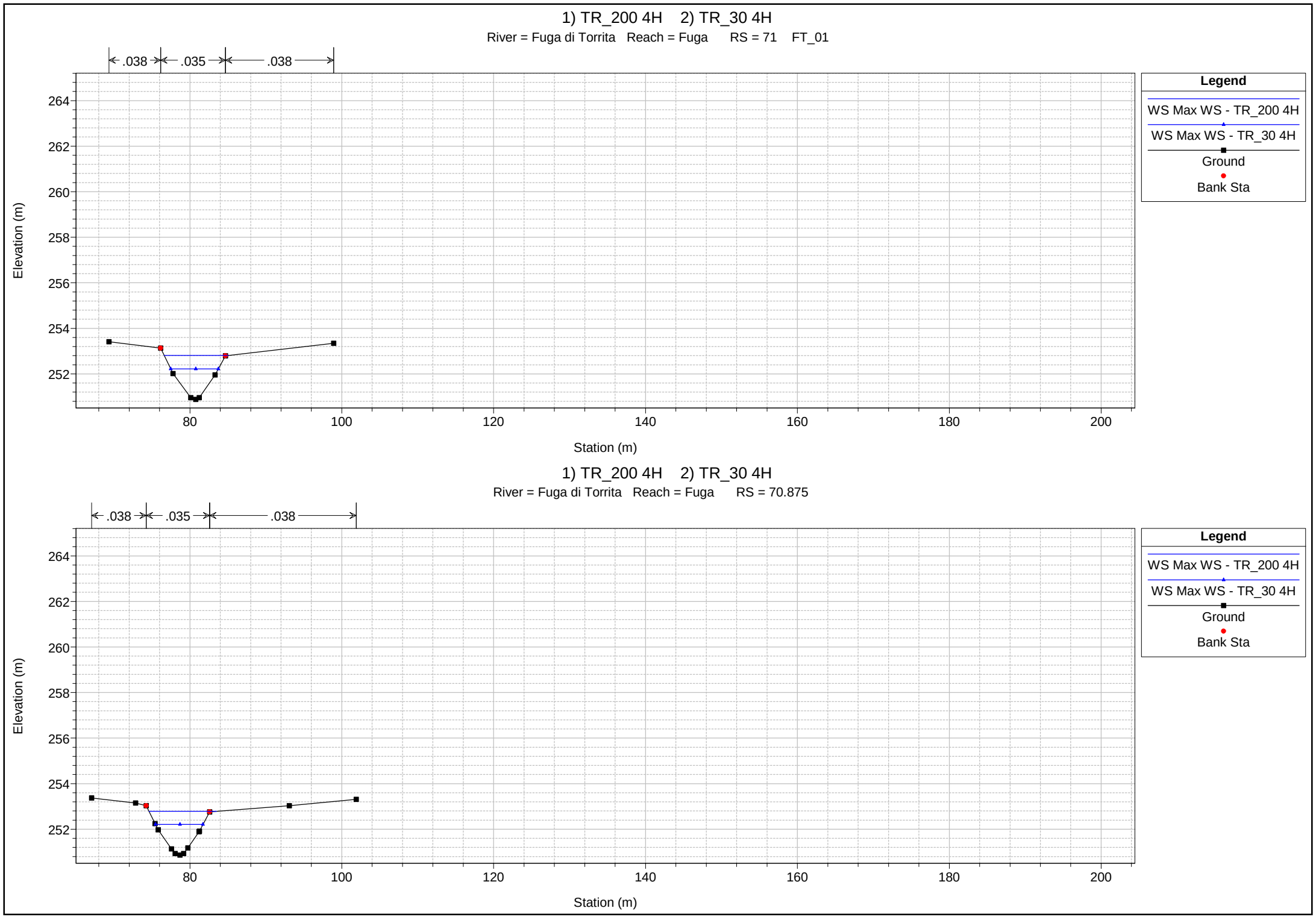
270
260
250
240
230

0
1000
2000
3000
4000
5000
6000
7000

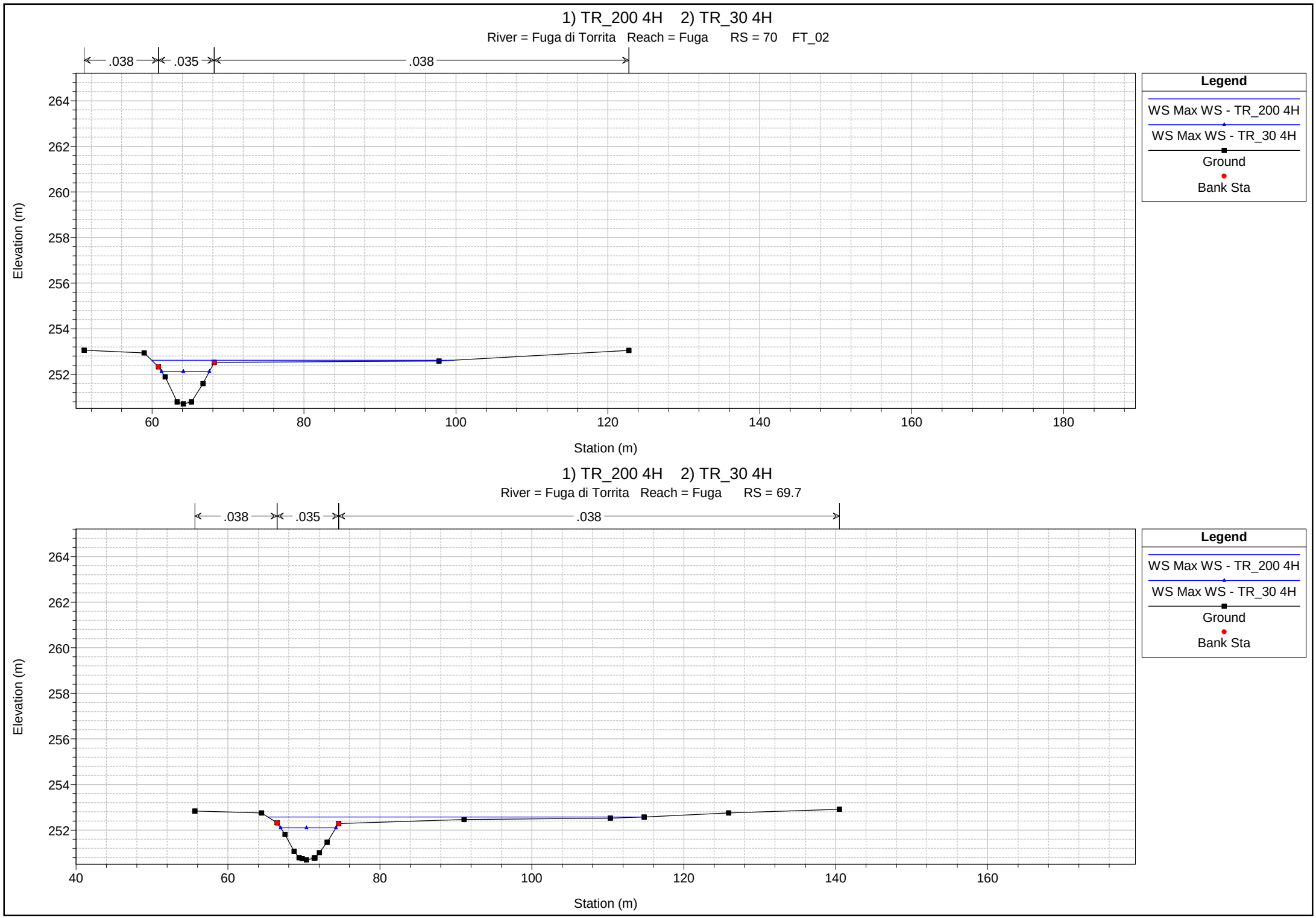
Main Channel Distance (m)

1.33333* 1.66666* 2 2.6* 3.14285* 3.71428* 5 5.375* 5.75* 6.11111* 6.44444* 6.77777* 7.125 7.5* 7.875* 8.5 9.57142* 10.1428* 10.7142* 11.25* 11.625* 12.125* 12.625 13.125* 13.625* 14.5 15.25* 15.5* 15.75* 16 16.3* 16.6* 16.9* 17.9 18.4* 18.8* 19.2* 19.5* 19.8* 20.2* 20.6* 21 23 25.0714* 25.2857 25.5* 25.7142* 25.9285* 26.2* 26.5* 26.8* 27.4* 28.5 30 30.8* 33.2* 33.8* 34.4* 35 35.8* 36.5* 37.2* 37.8* 39.4* 40.1428* 40.7142* 41.4* 42.2* 43 43.75* 45.6666* 46.4* 47.1666* 47.6666* 48.1666* 48.8333* 50.6666* 51.5* 52.1428* 52.5714* 53 54.5* 55.1666* 55.8333 56.3333* 56.8333* 57.4* 58.125* 58.5* 58.875* 60.3333* 60.8333* 61.375* 61.875* 63.25* 63.625* 64 64.8* 65.5* 66.2* 67 67.375* 67.75* 69.1* 69.5* 69.8* 70.125* 70.5* 70.875

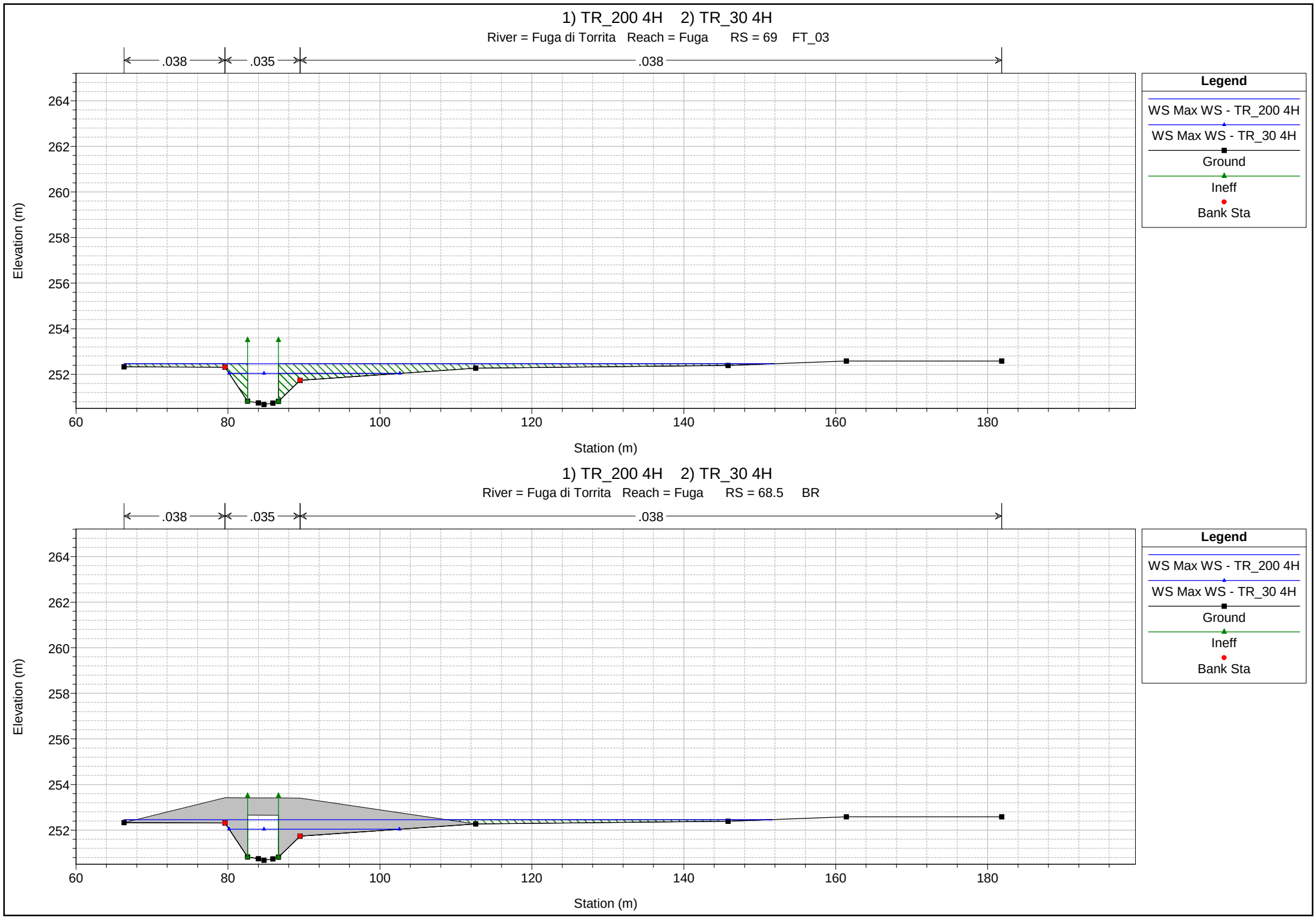
1 cm Horiz. = 198 m 1 cm Vert. = 2 m



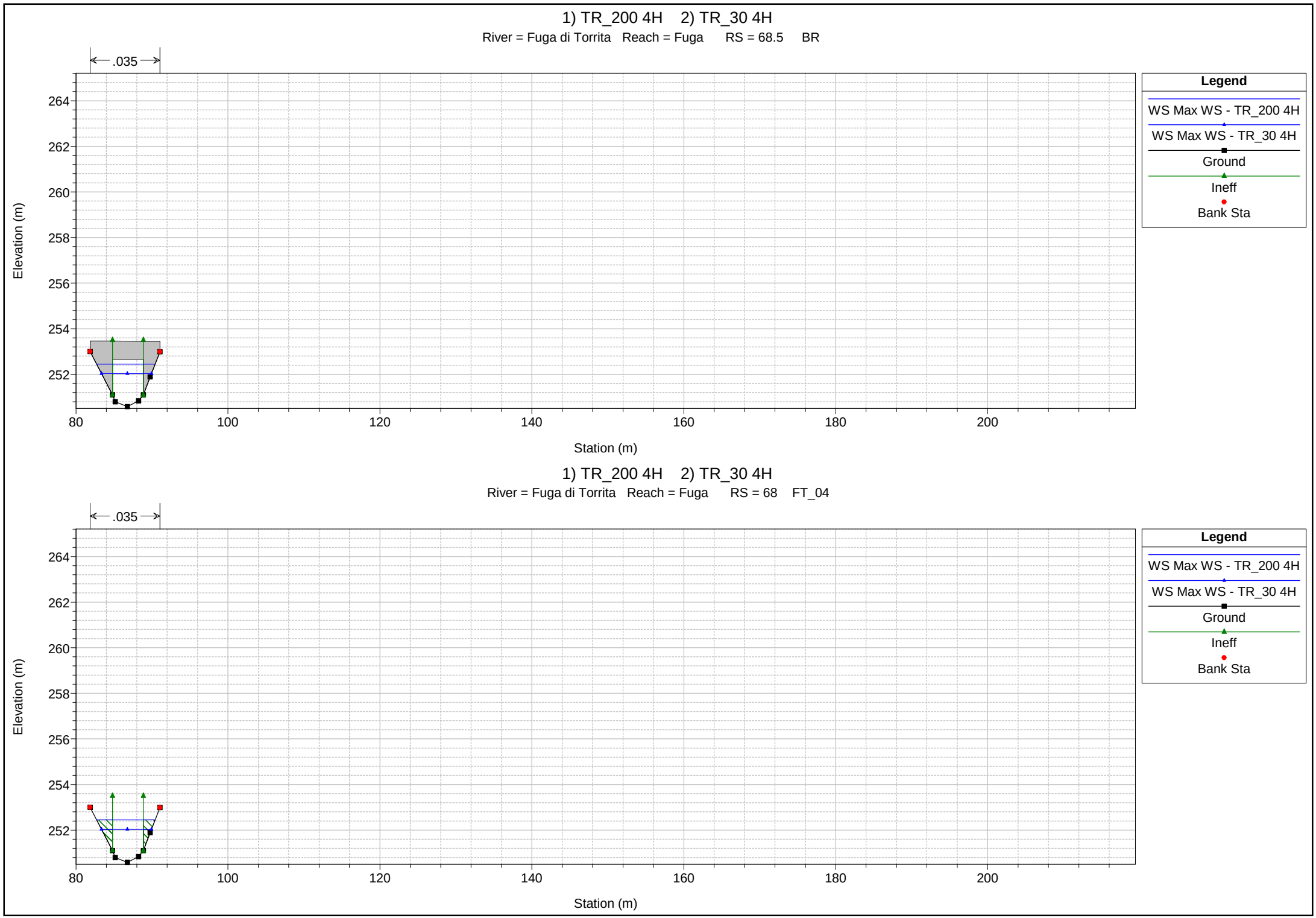
1 cm Horiz. = 6 m 1 cm Vert. = 2 m



1 cm Horiz. = 6 m 1 cm Vert. = 2 m



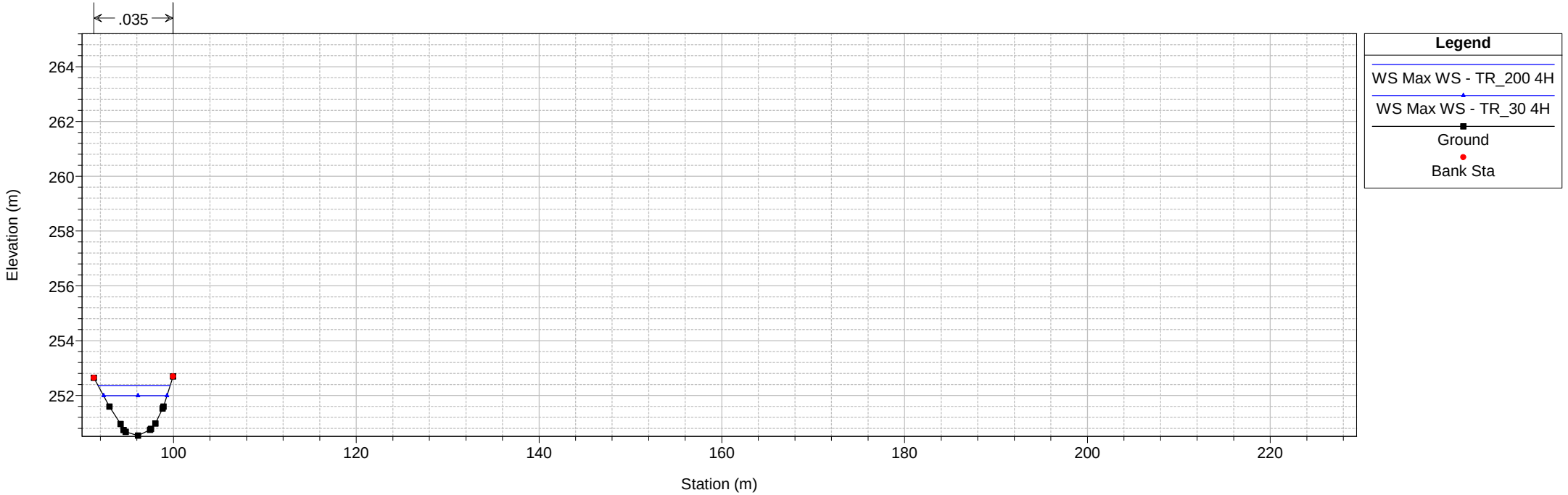
1 cm Horiz. = 6 m 1 cm Vert. = 2 m



1 cm Horiz. = 6 m 1 cm Vert. = 2 m

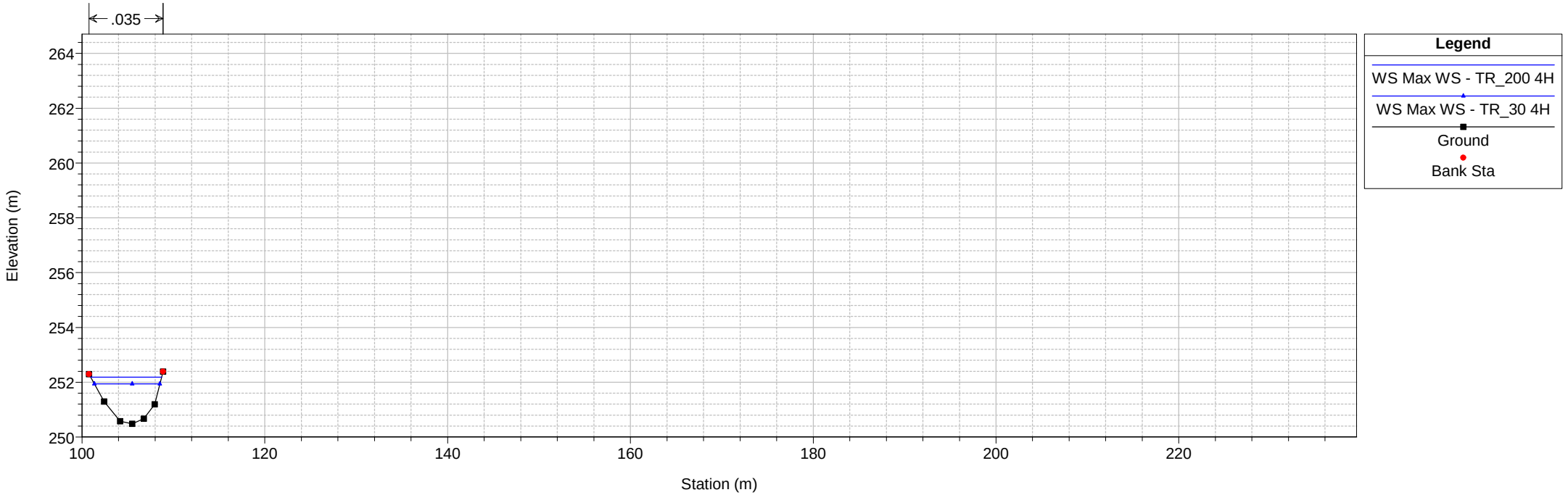
1) TR_200 4H 2) TR_30 4H

River = Fuga di Torrita Reach = Fuga RS = 67.5

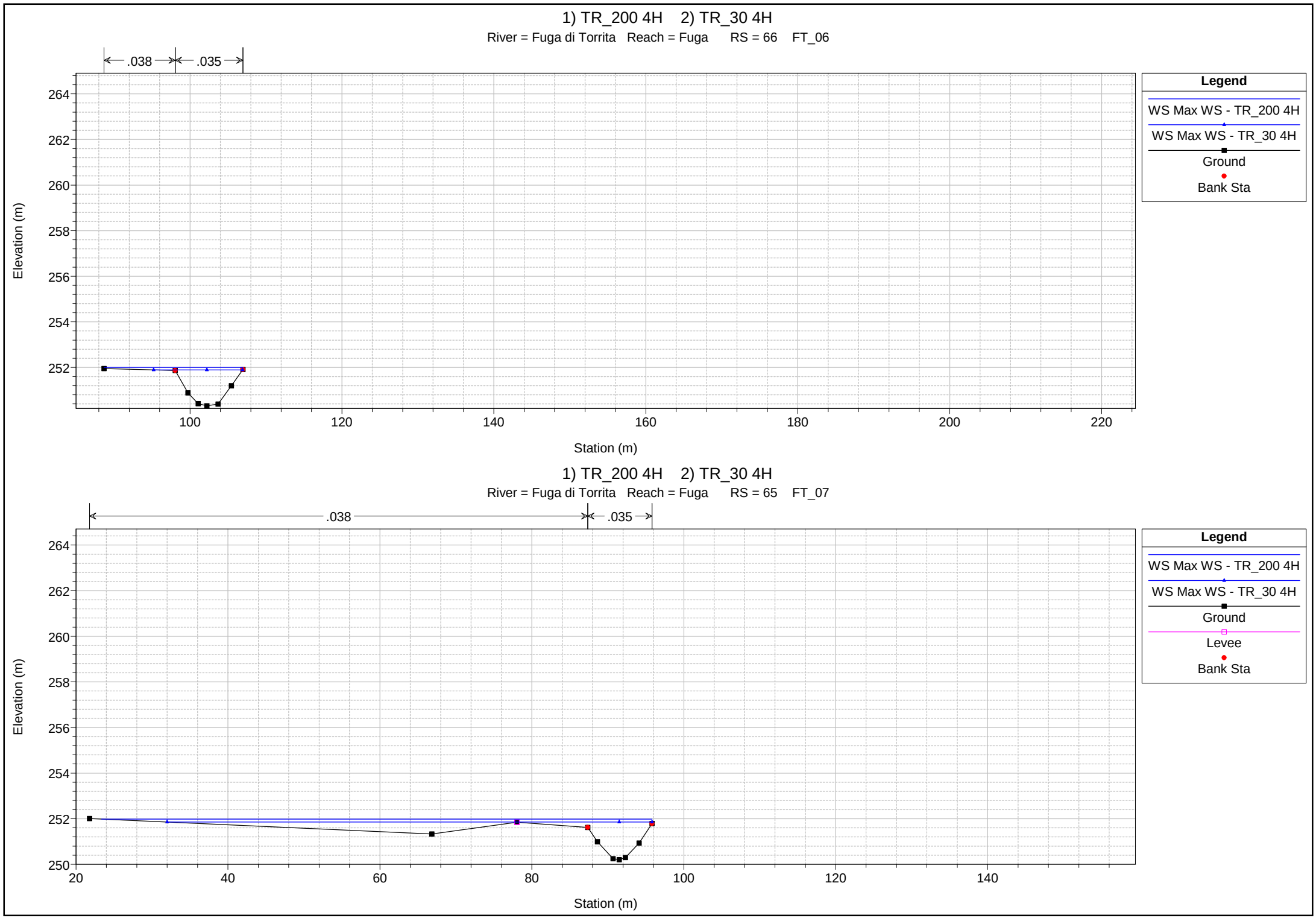


1) TR_200 4H 2) TR_30 4H

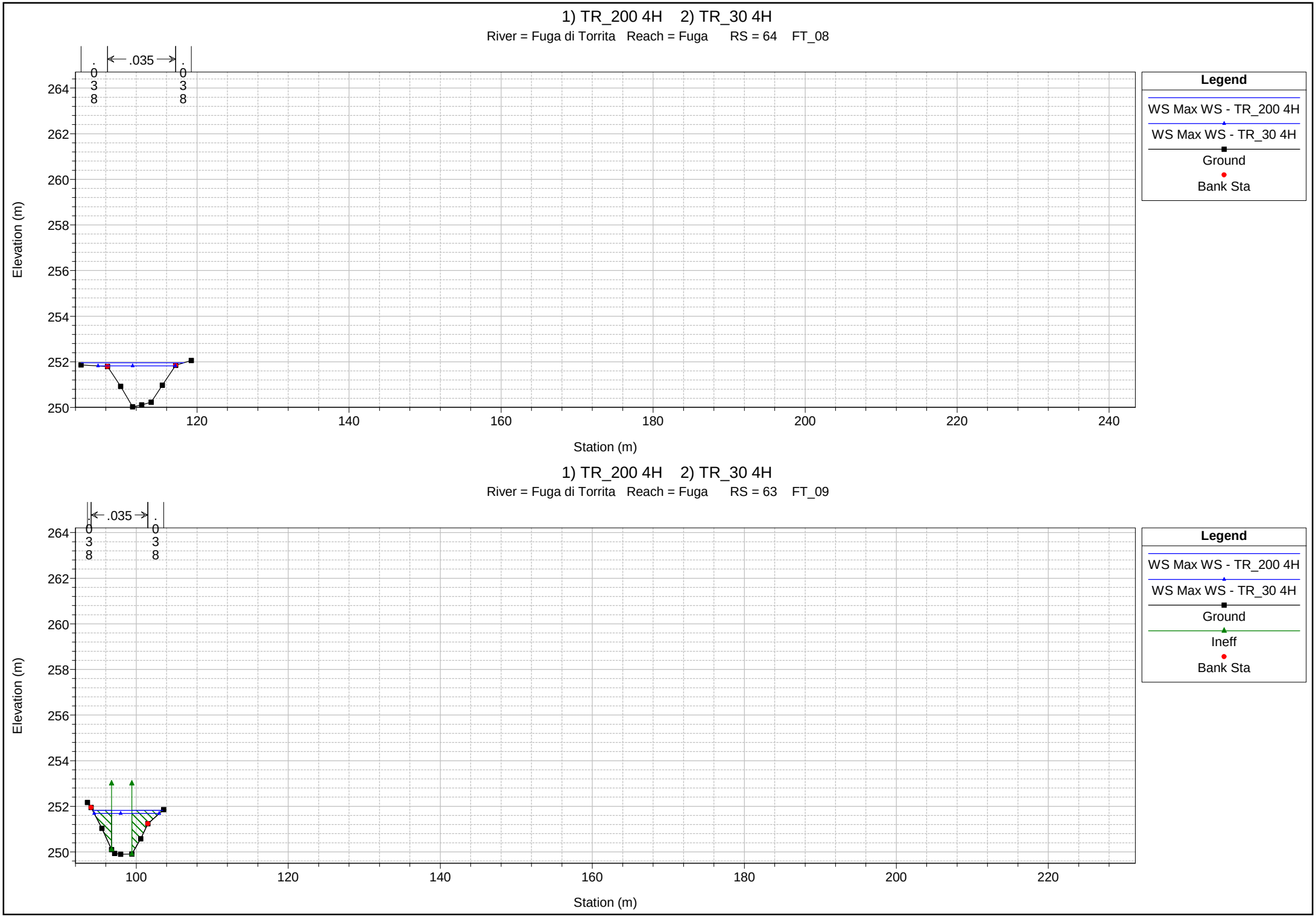
River = Fuga di Torrita Reach = Fuga RS = 67 FT_05



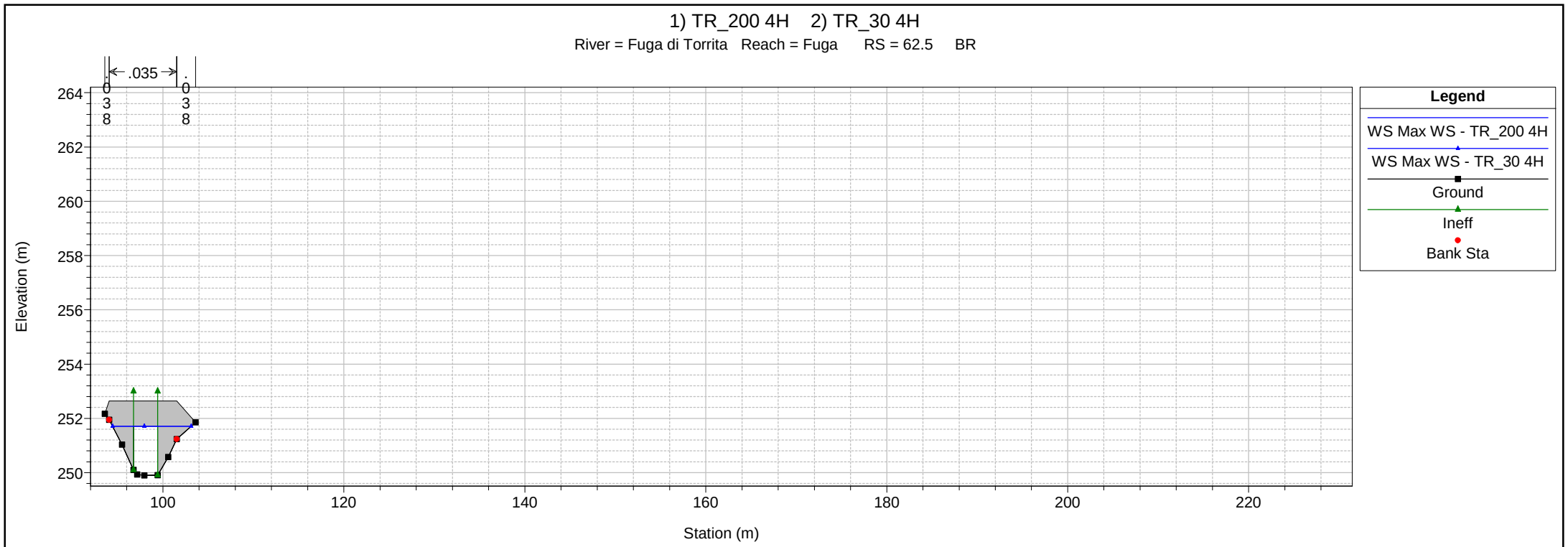
1 cm Horiz. = 6 m 1 cm Vert. = 2 m

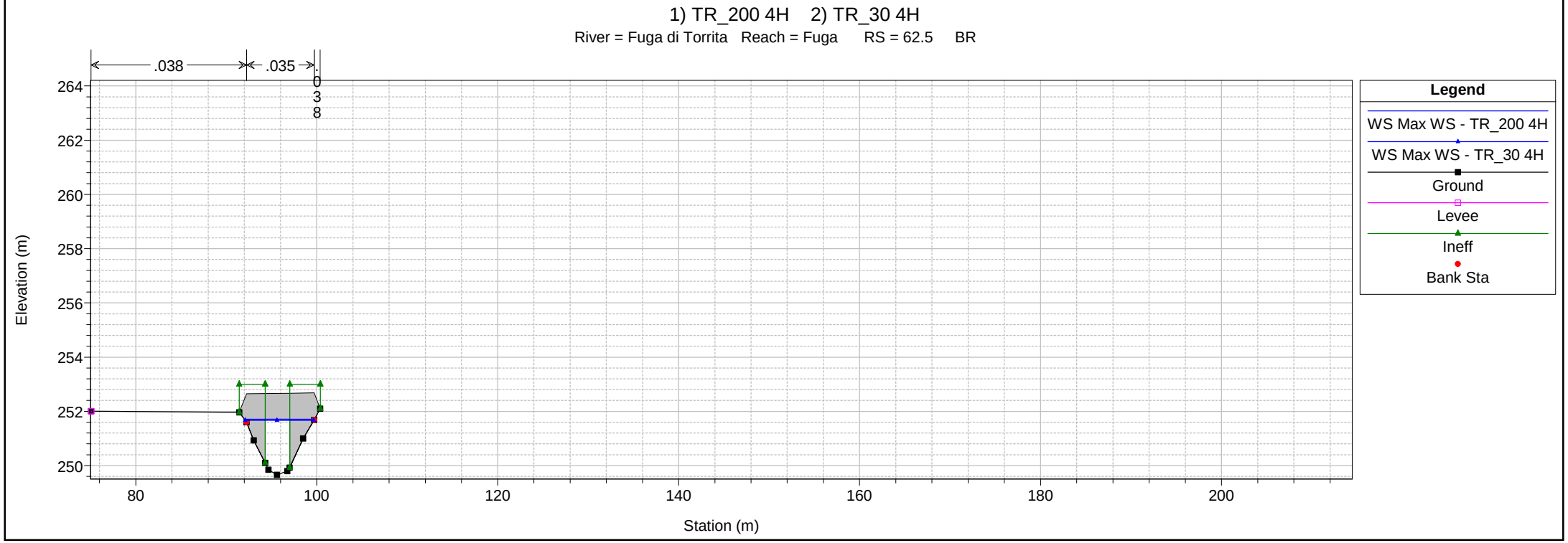


1 cm Horiz. = 6 m 1 cm Vert. = 2 m

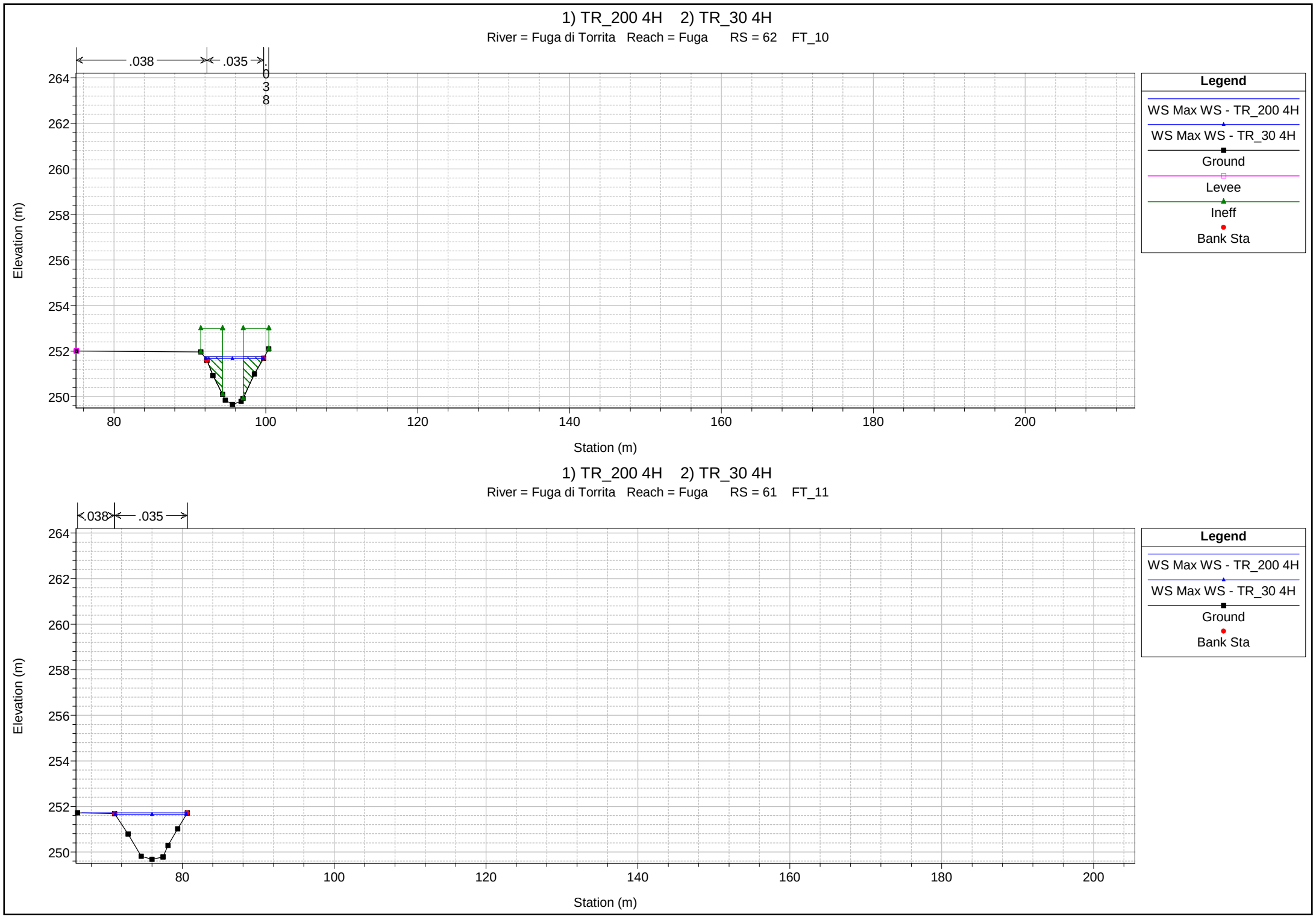


1 cm Horiz. = 6 m 1 cm Vert. = 2 m

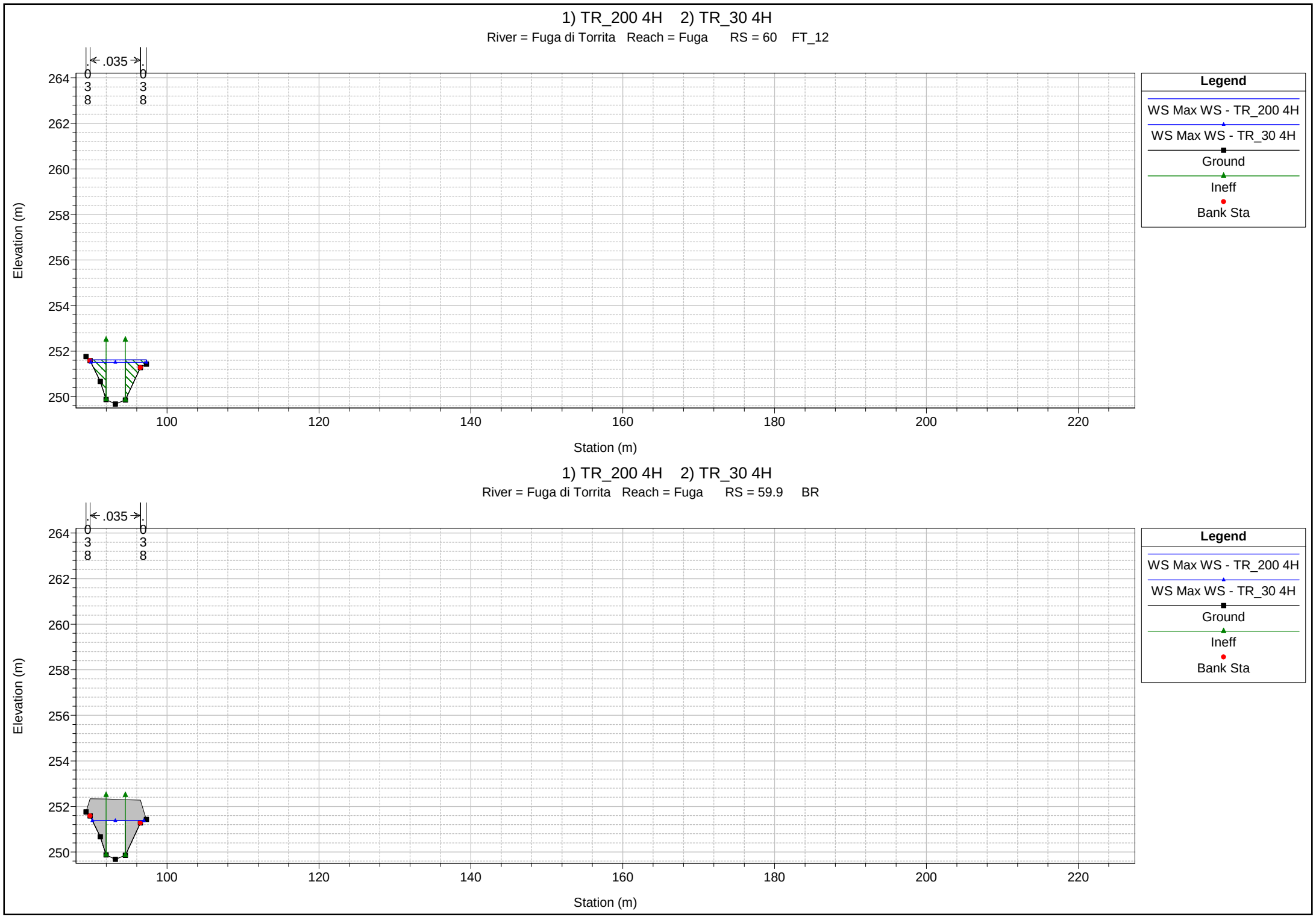




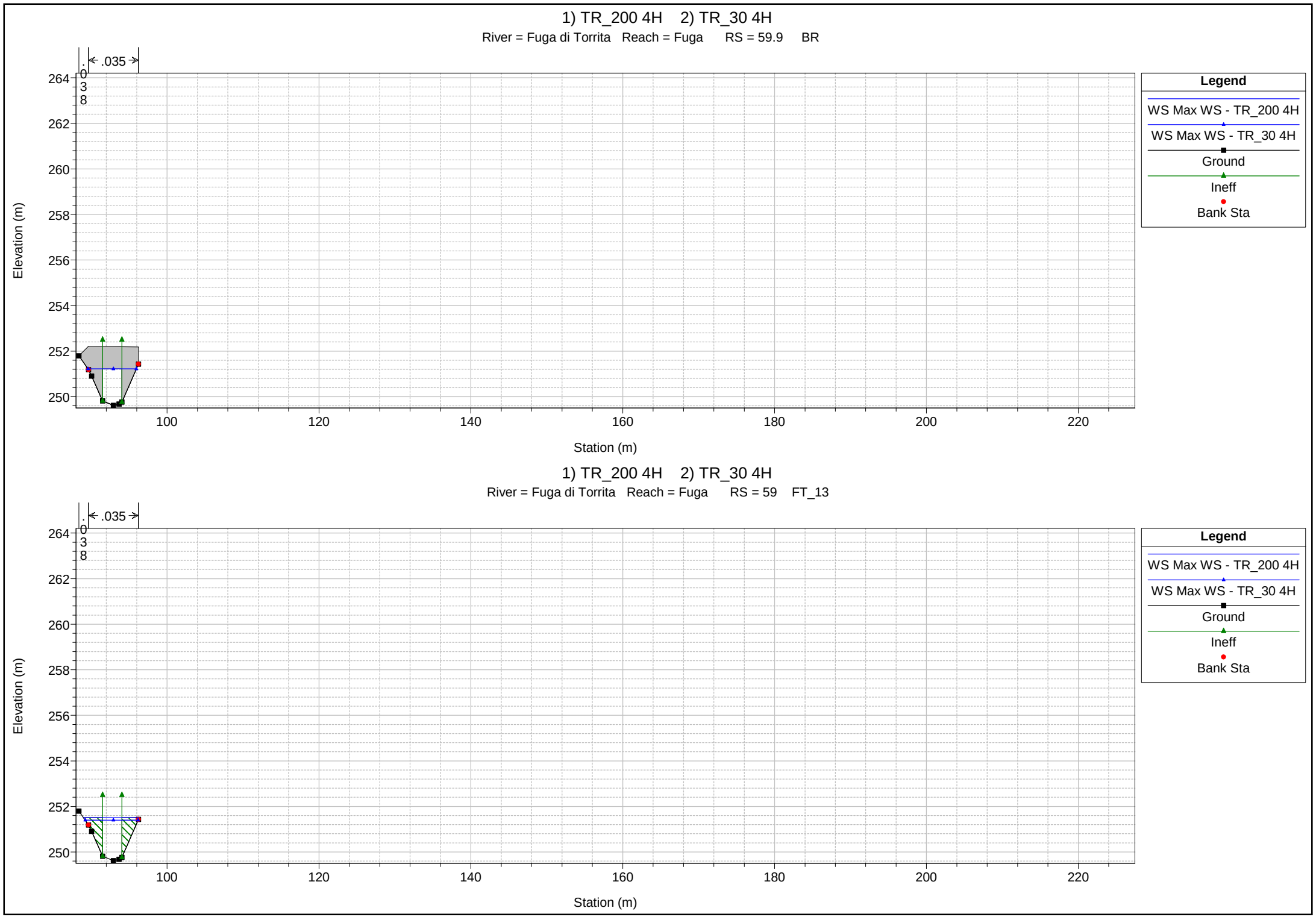
1 cm Horiz. = 6 m 1 cm Vert. = 2 m



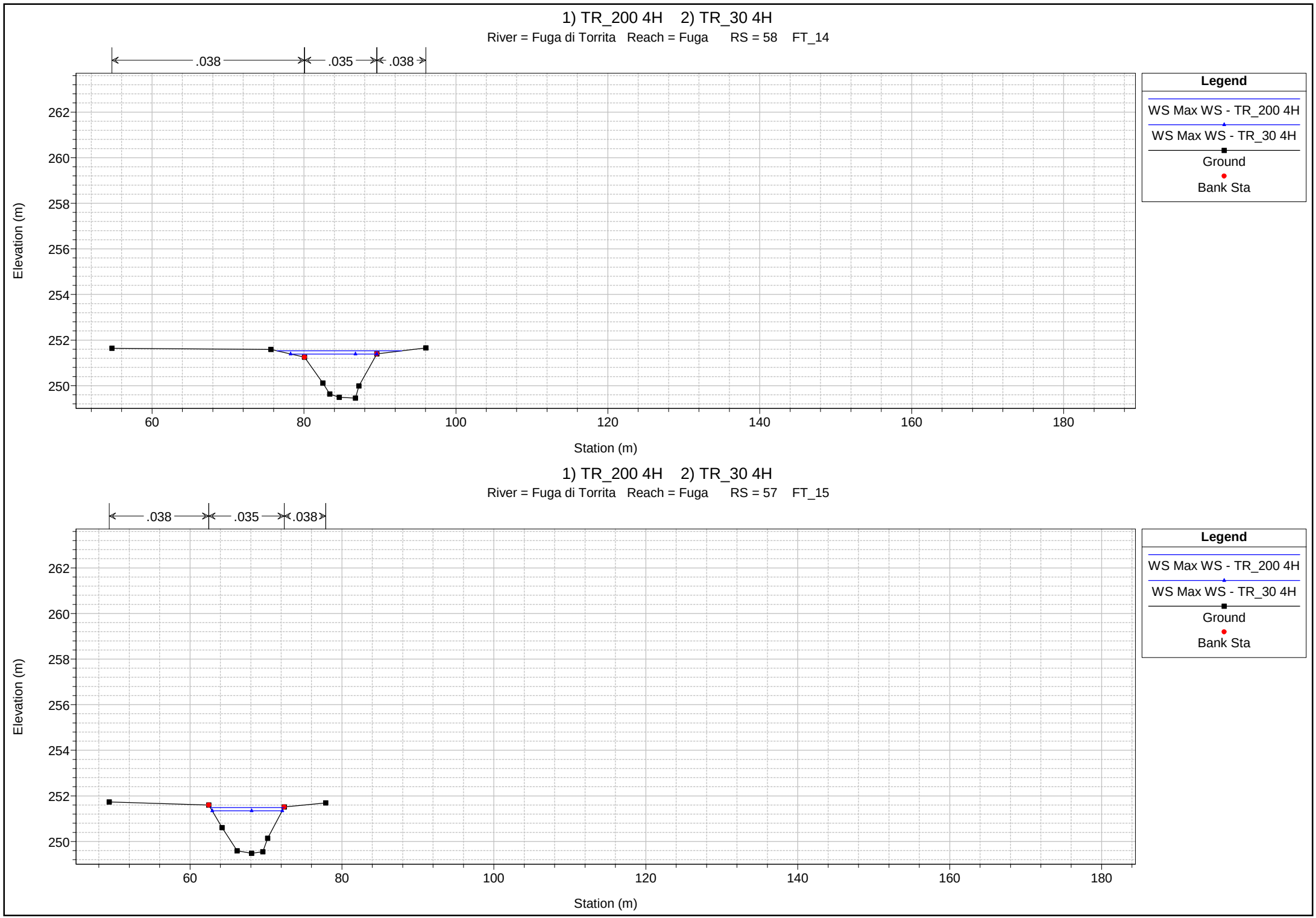
1 cm Horiz. = 6 m 1 cm Vert. = 2 m



1 cm Horiz. = 6 m 1 cm Vert. = 2 m



1 cm Horiz. = 6 m 1 cm Vert. = 2 m



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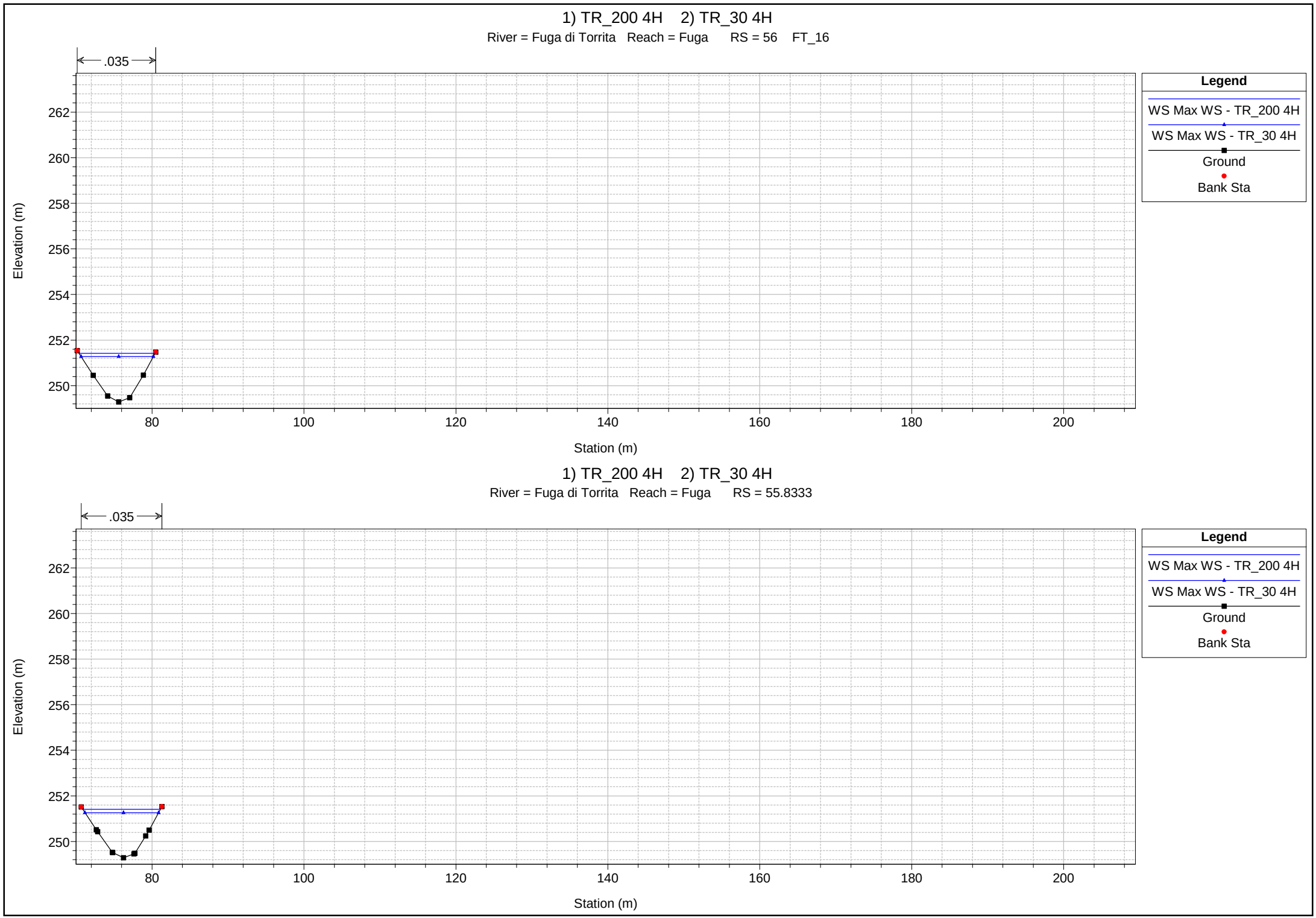

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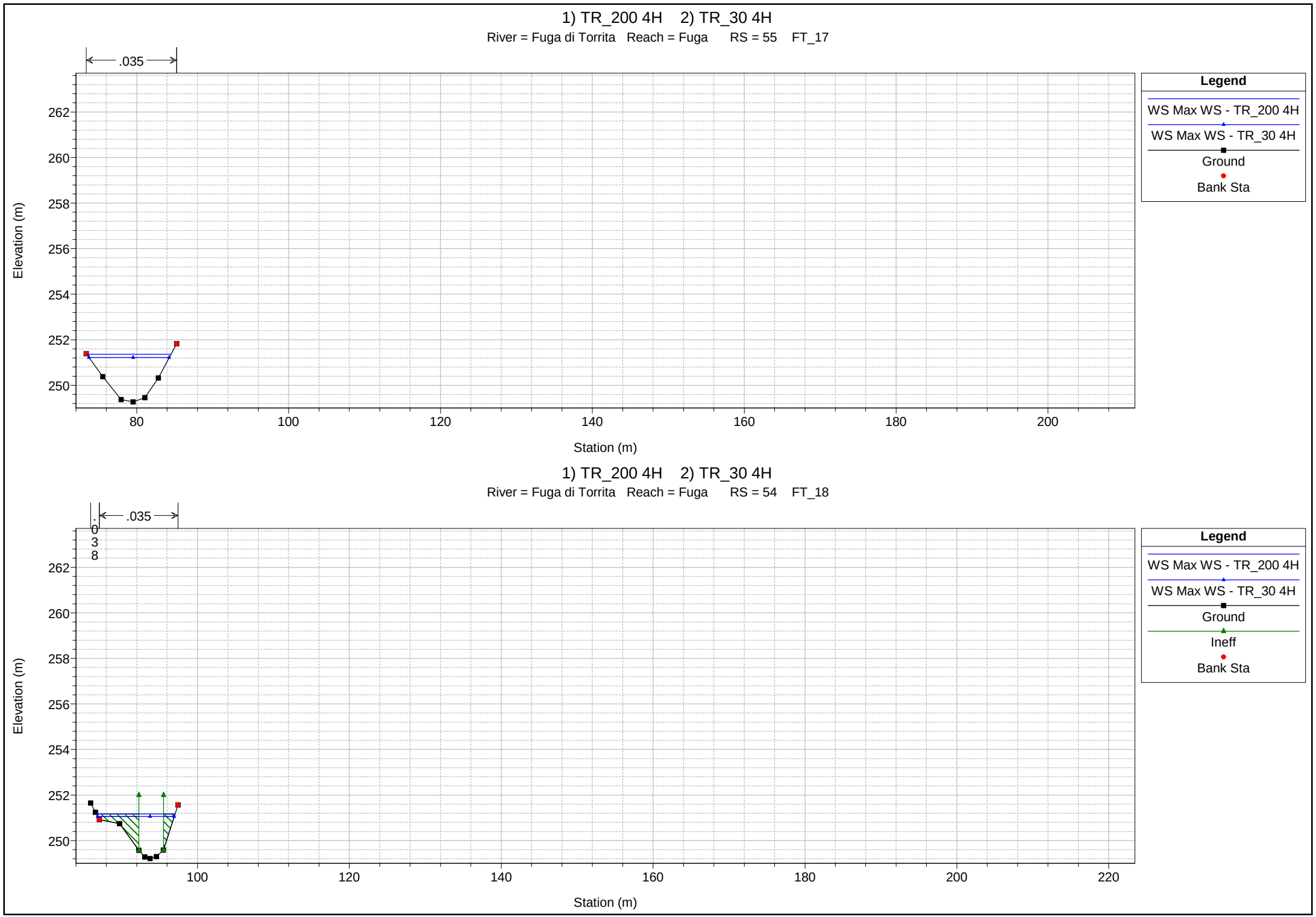

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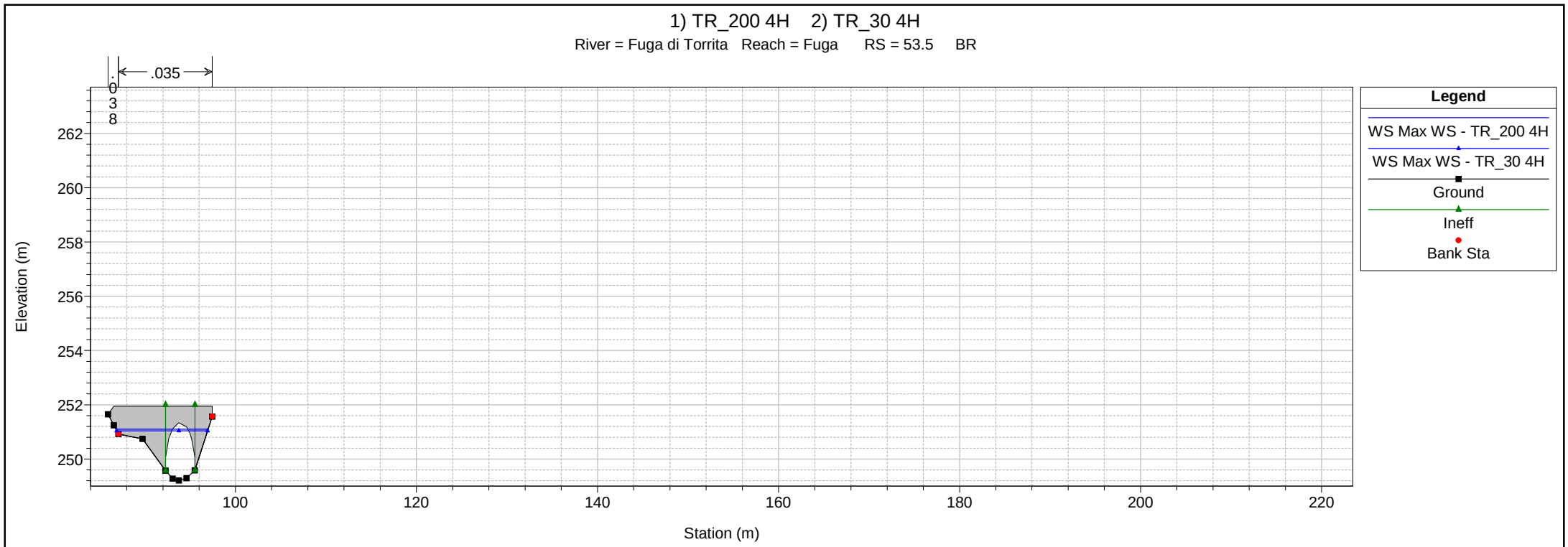

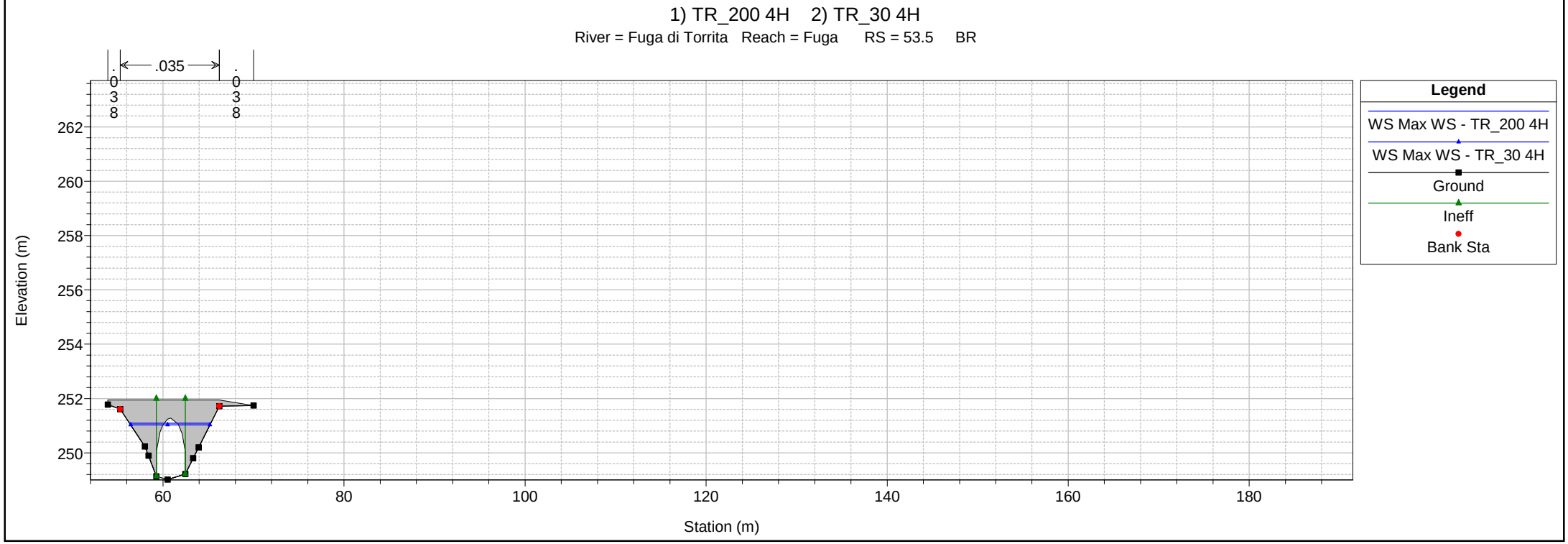

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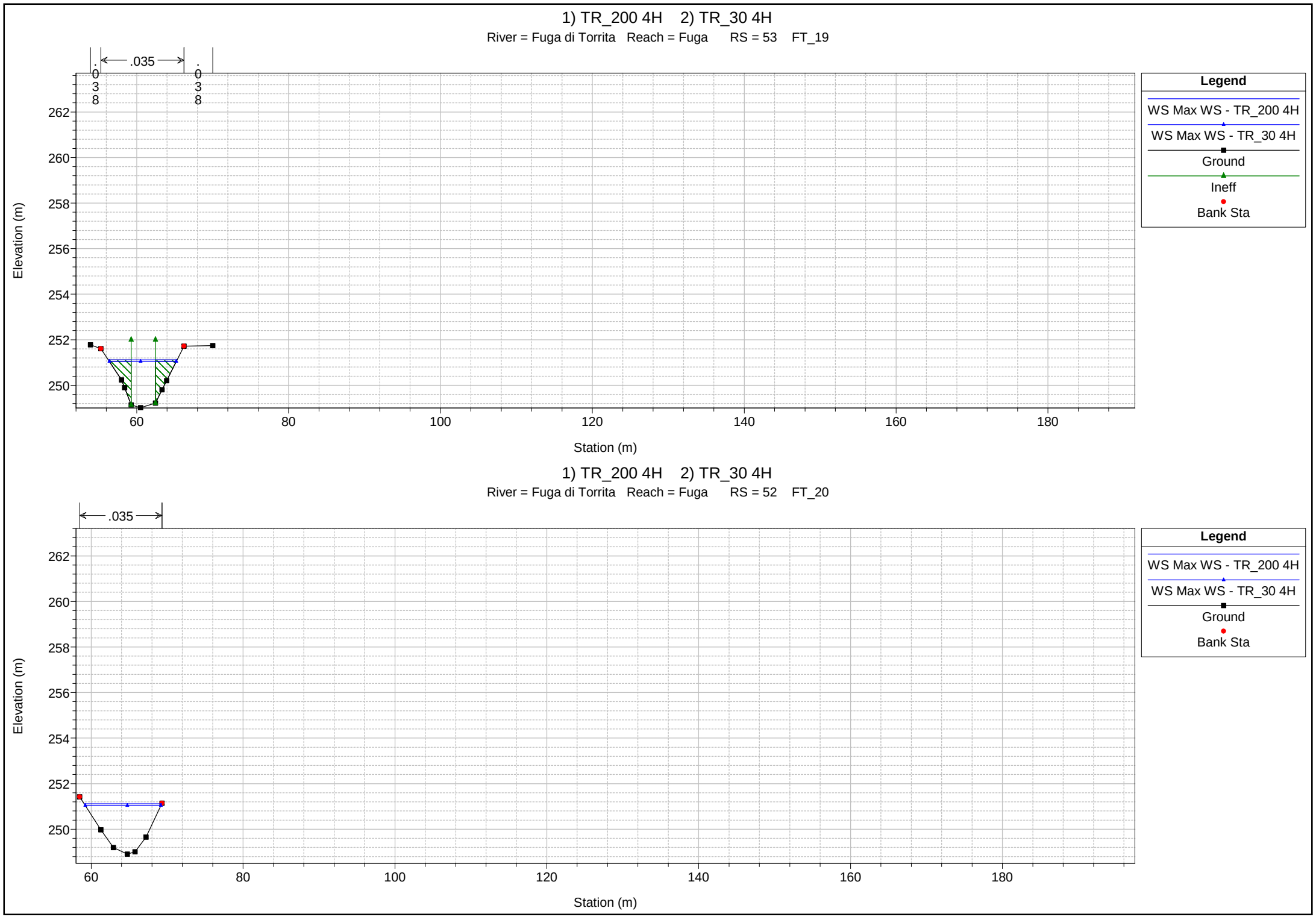

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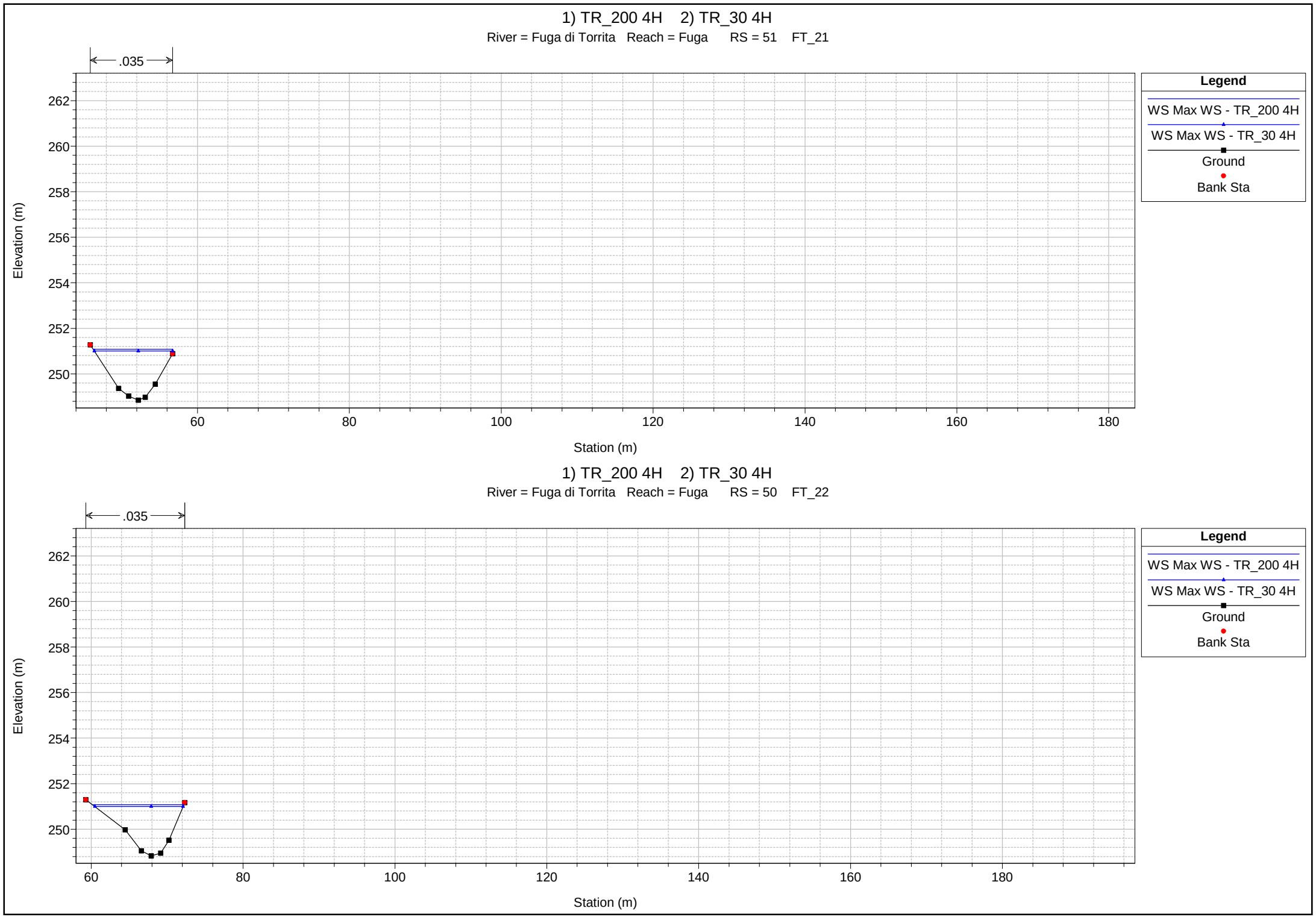

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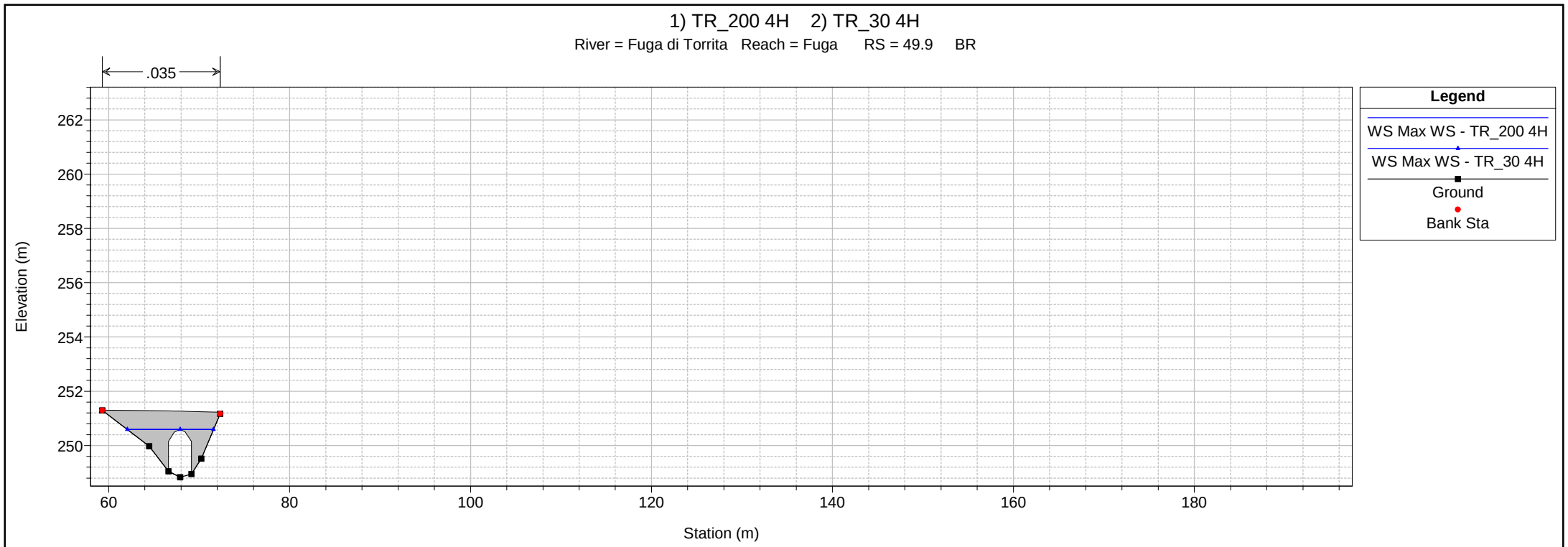

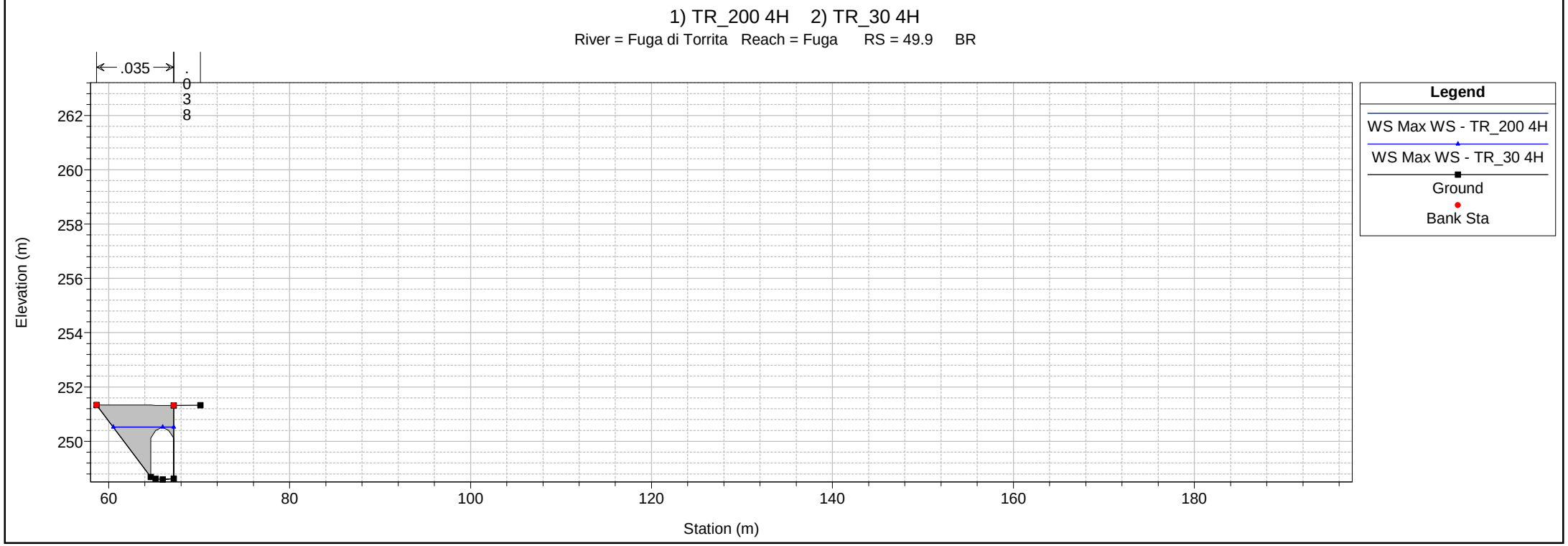

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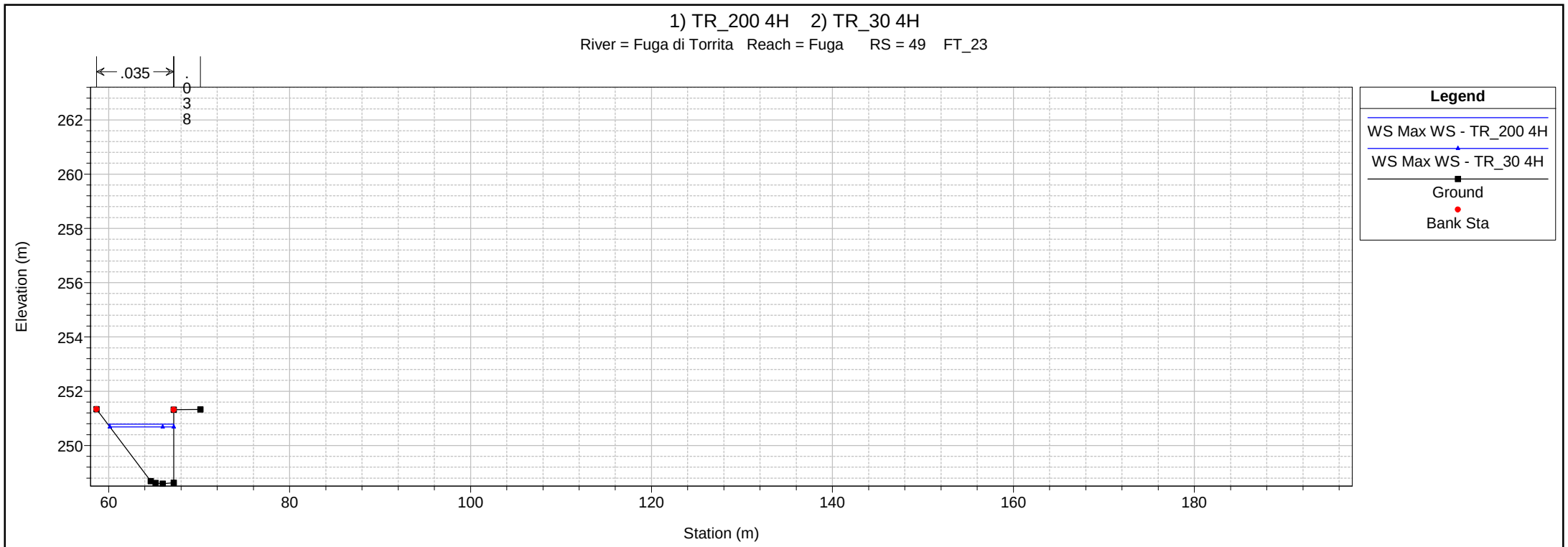

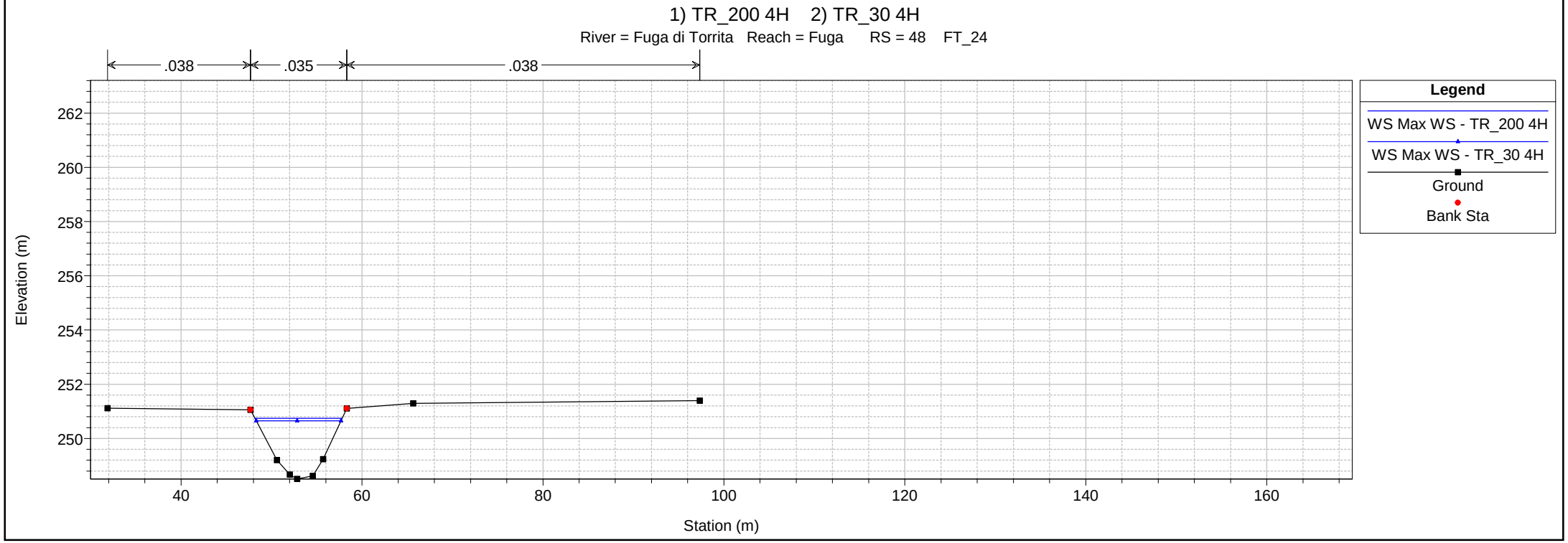

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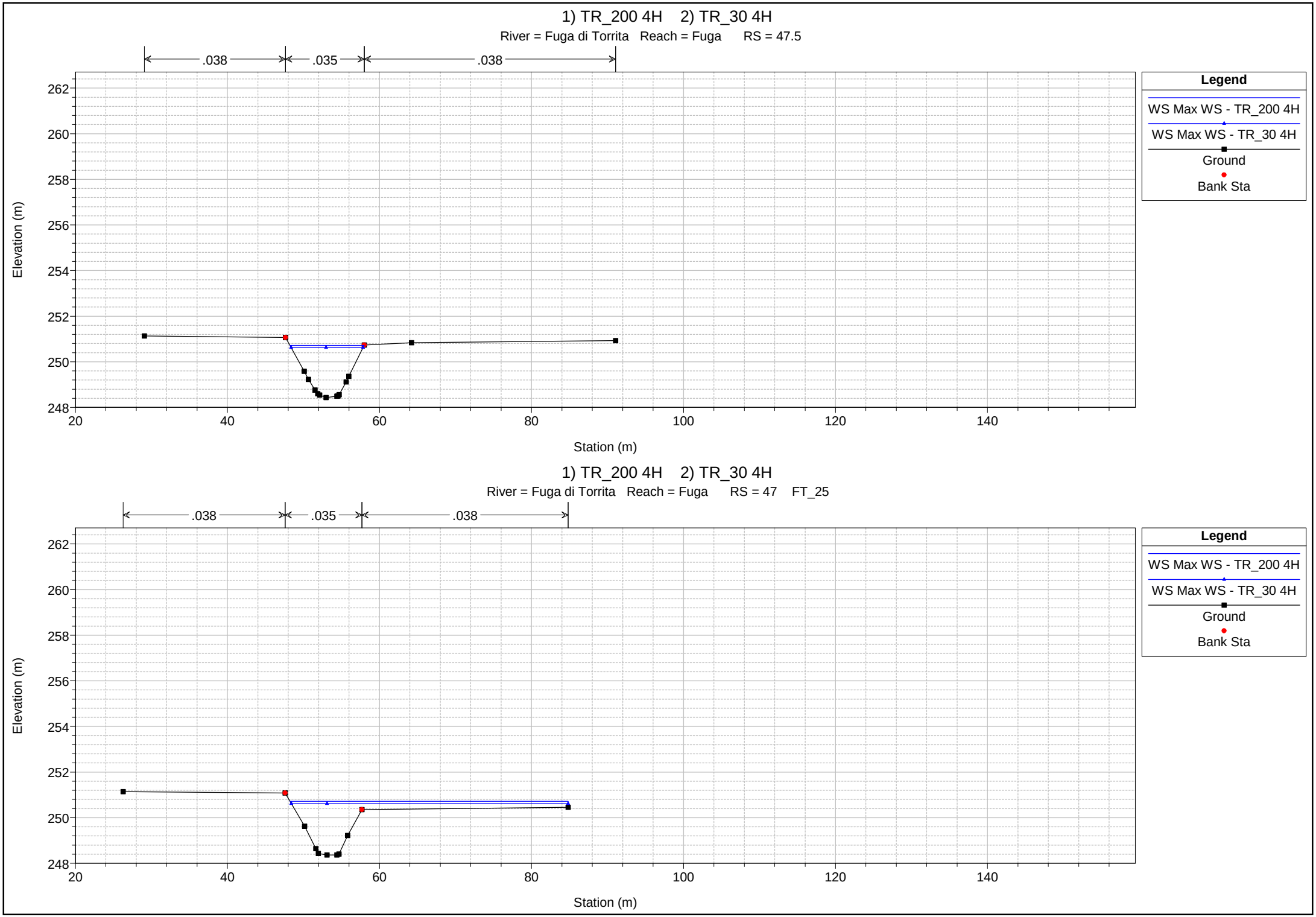

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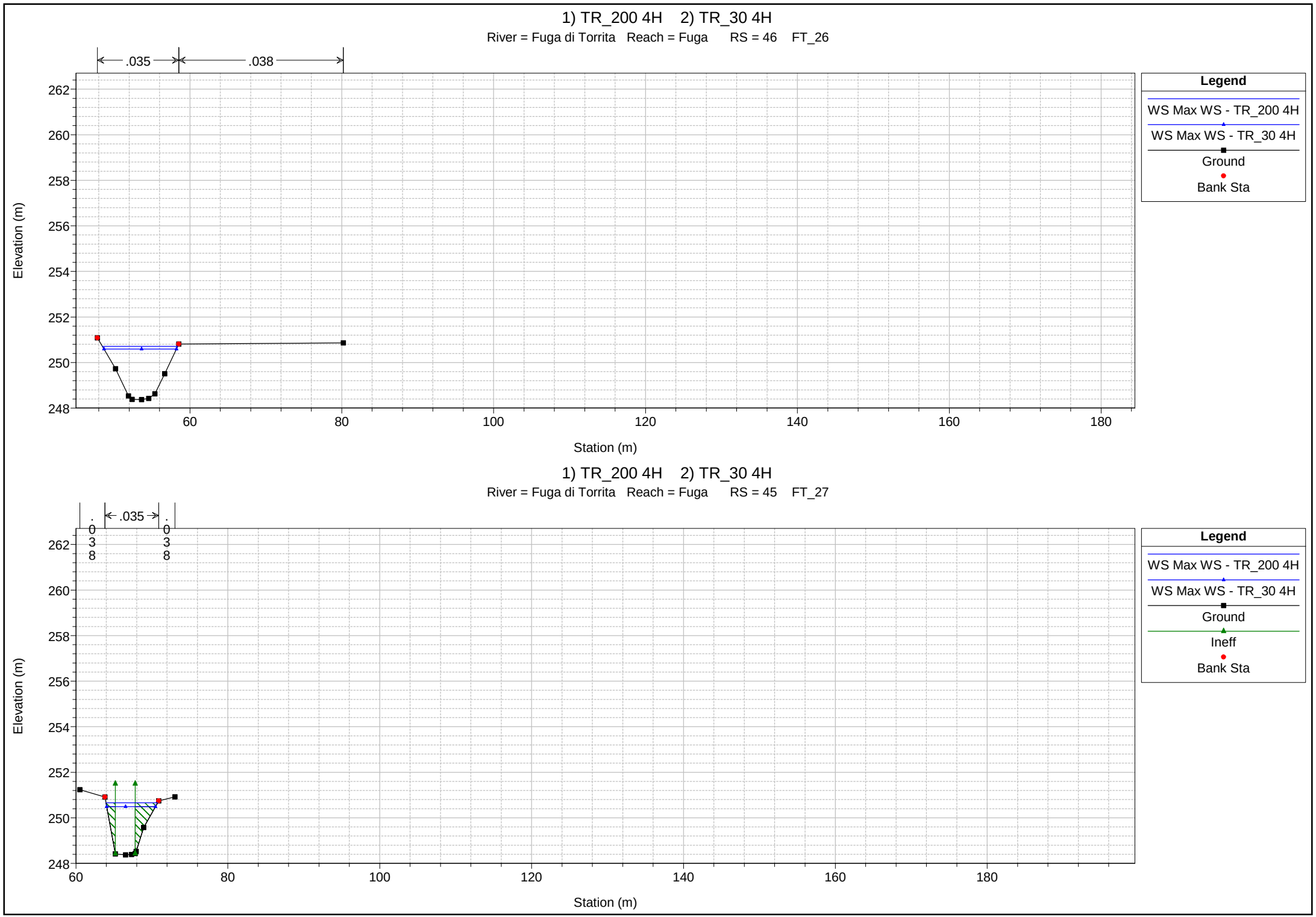

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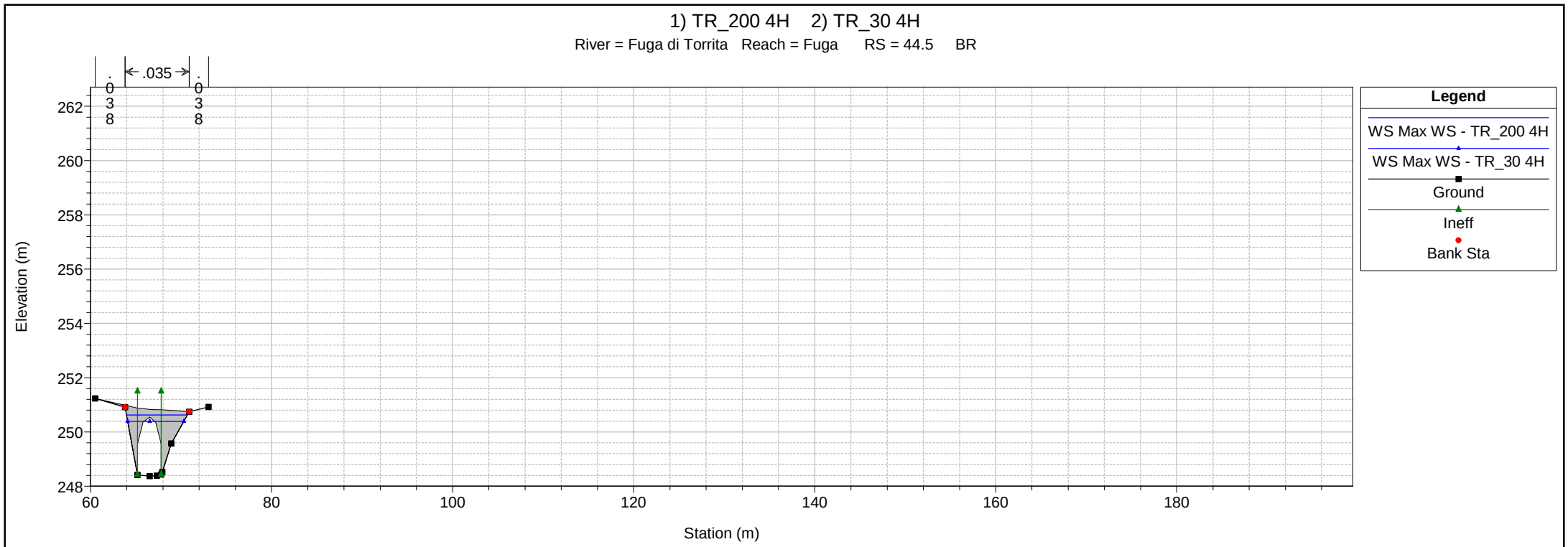

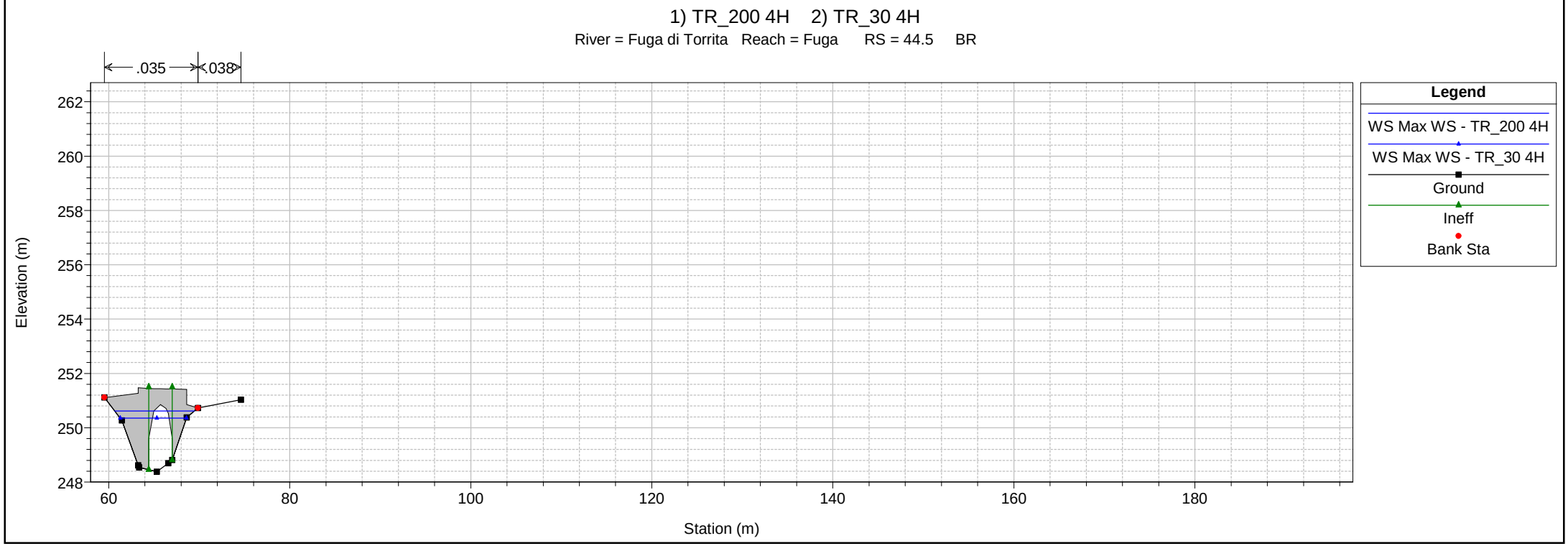

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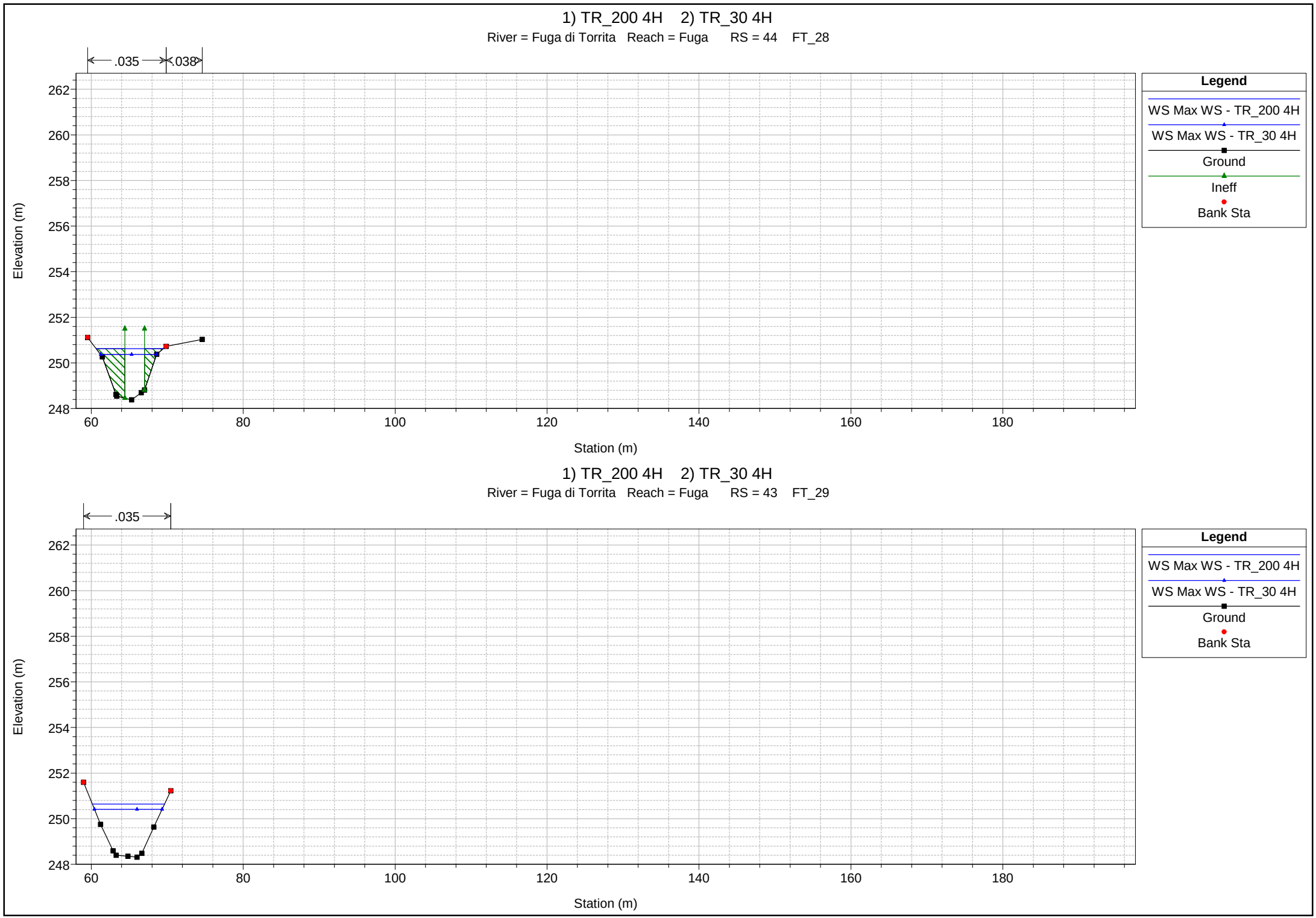

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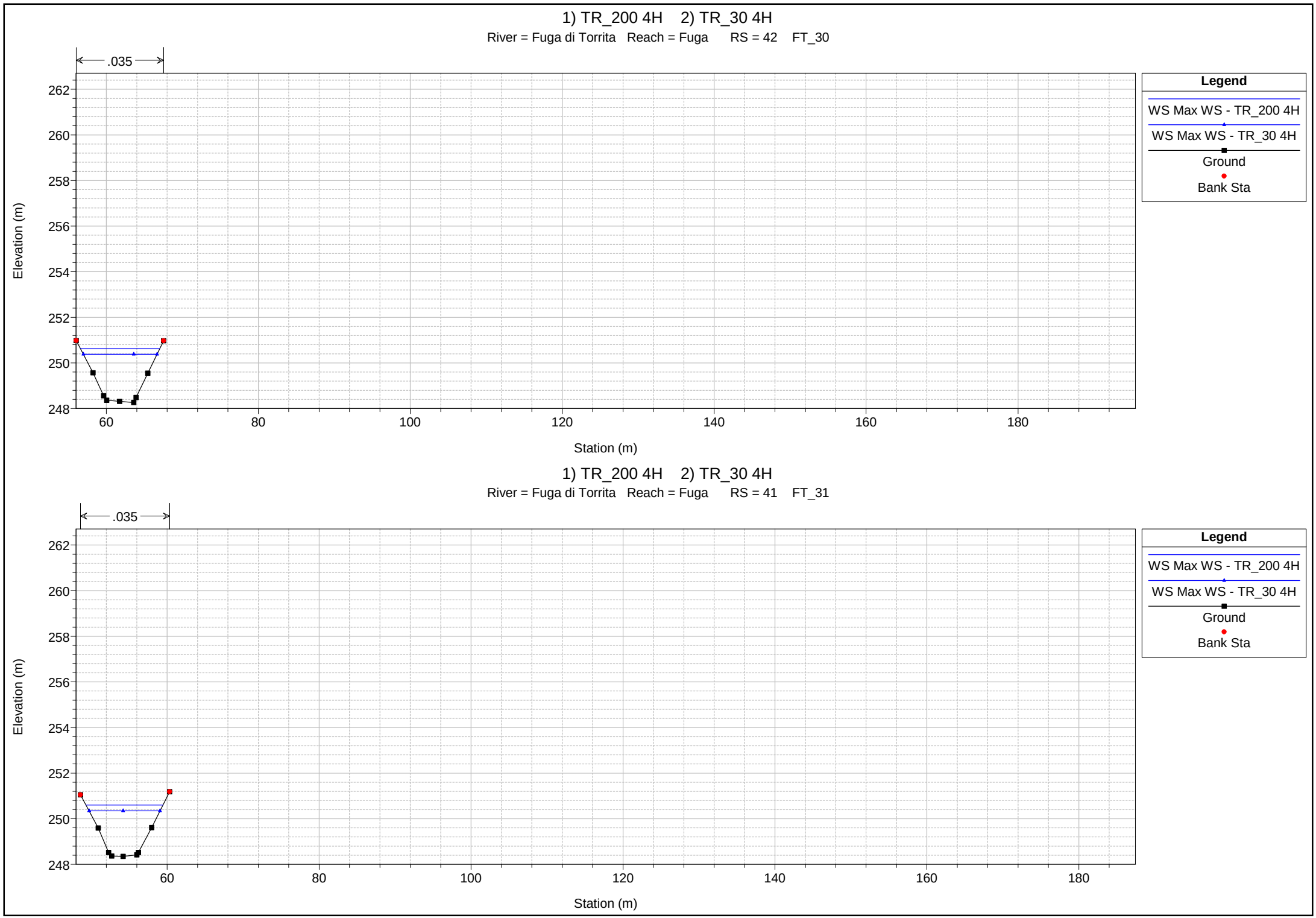
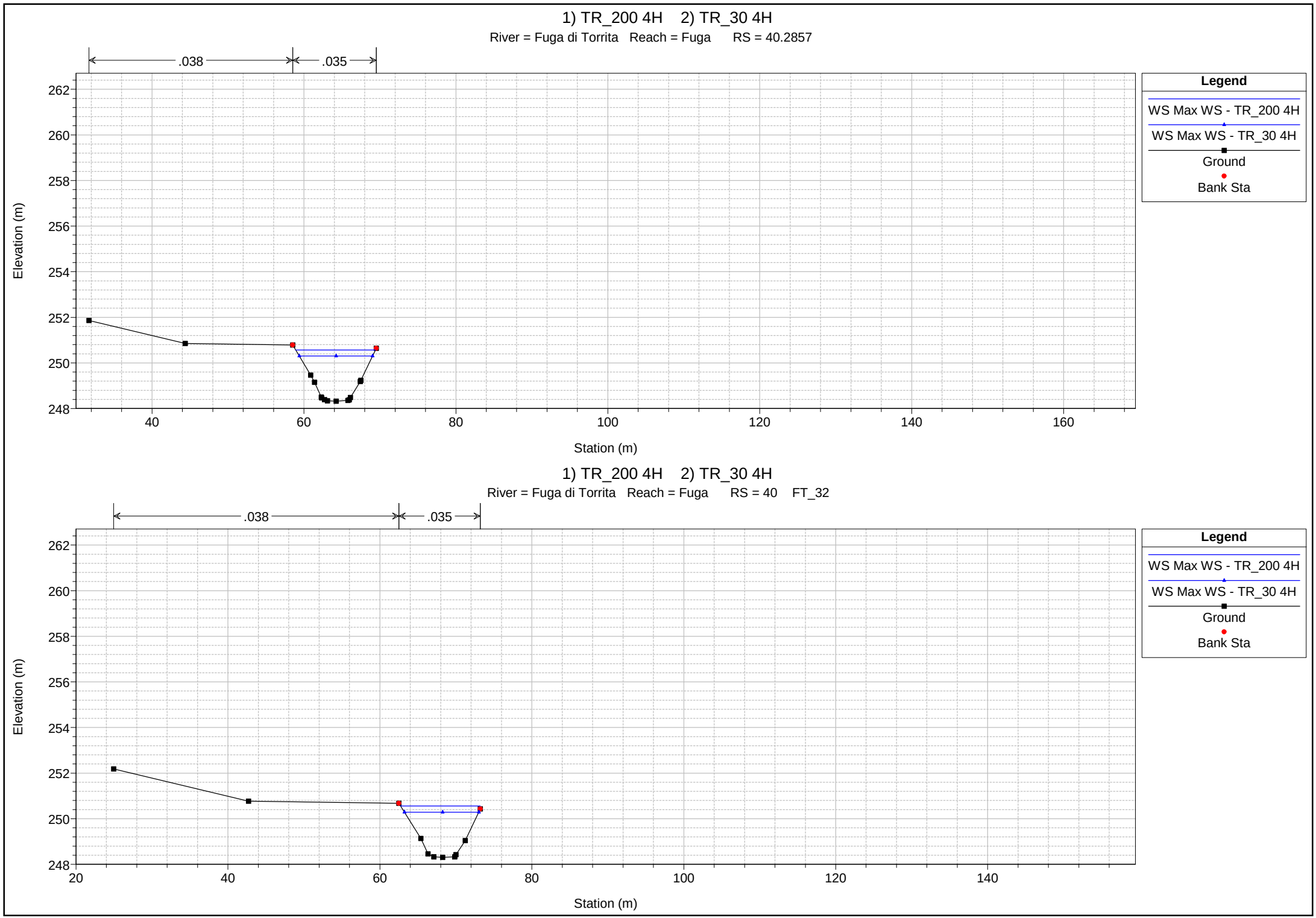


1 cm Horiz. = 6 m 1 cm Vert. = 2 m



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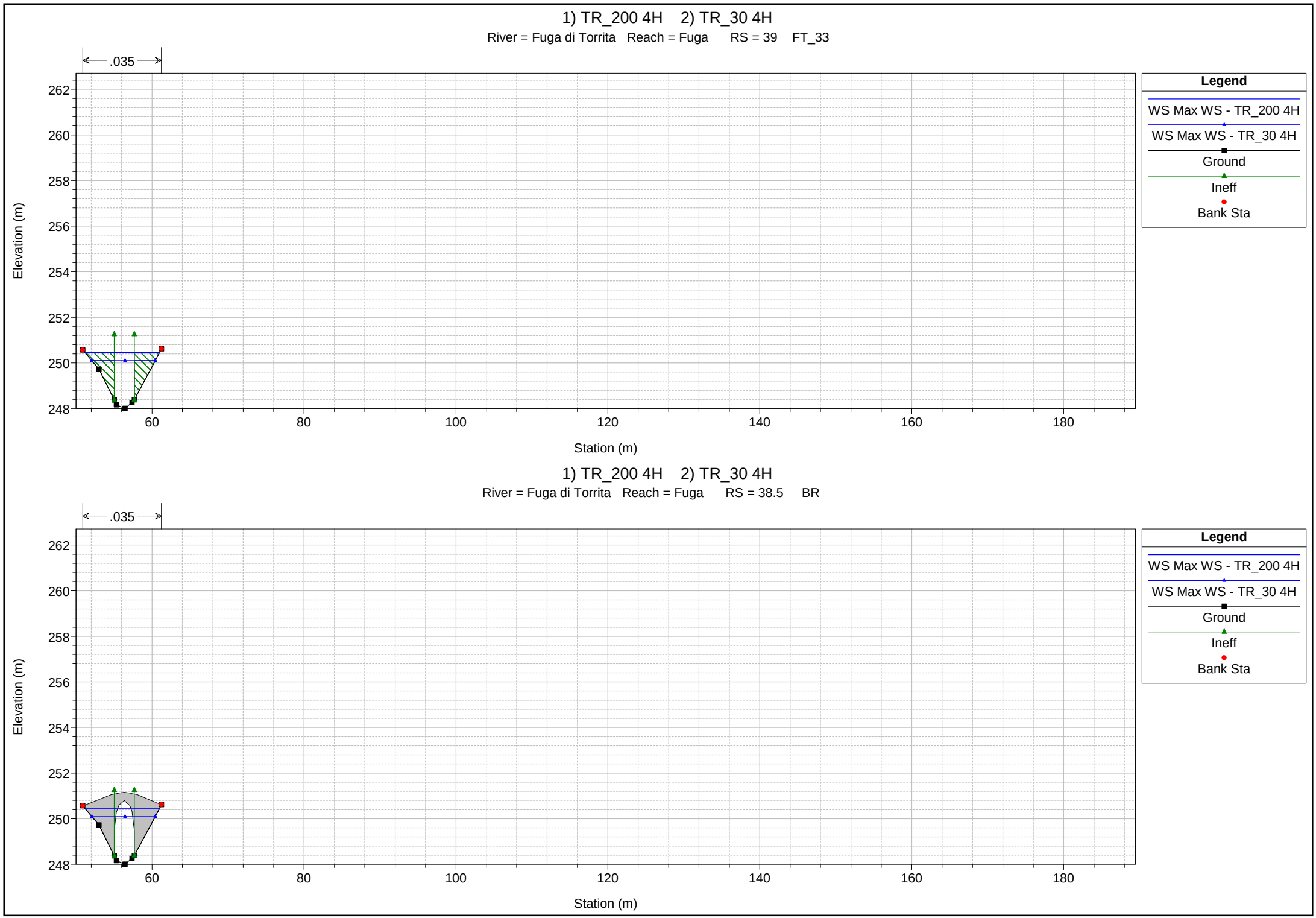

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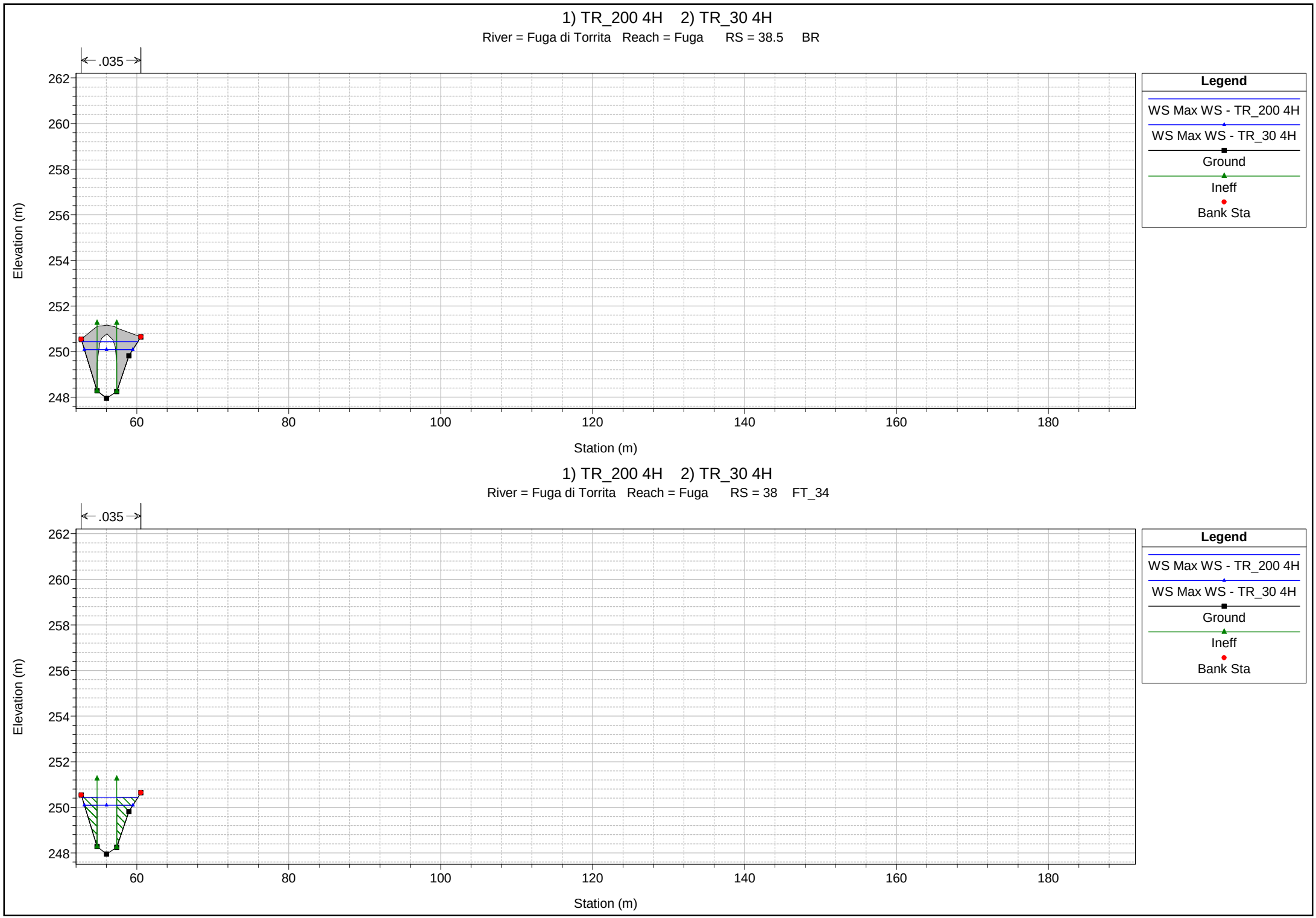

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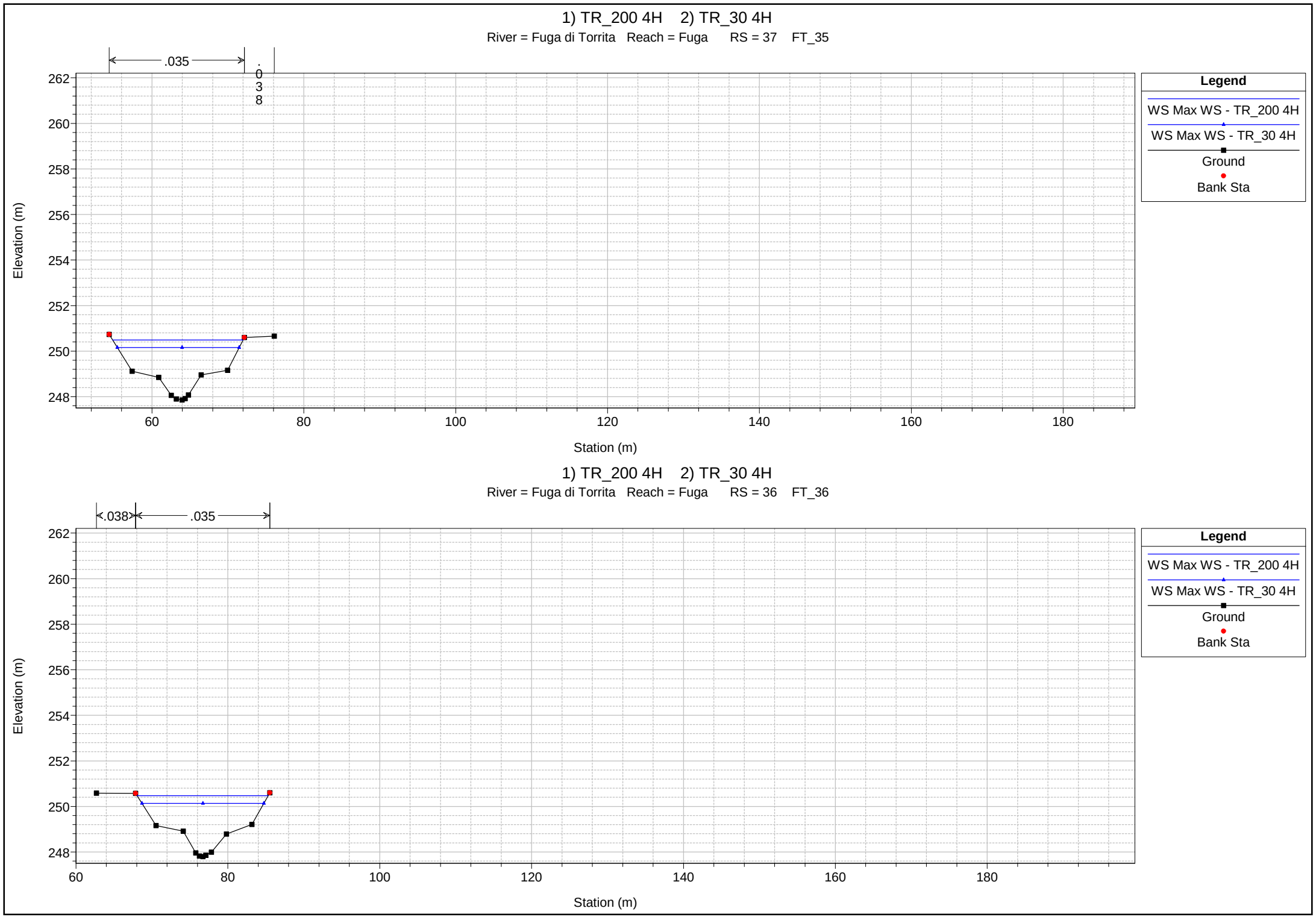

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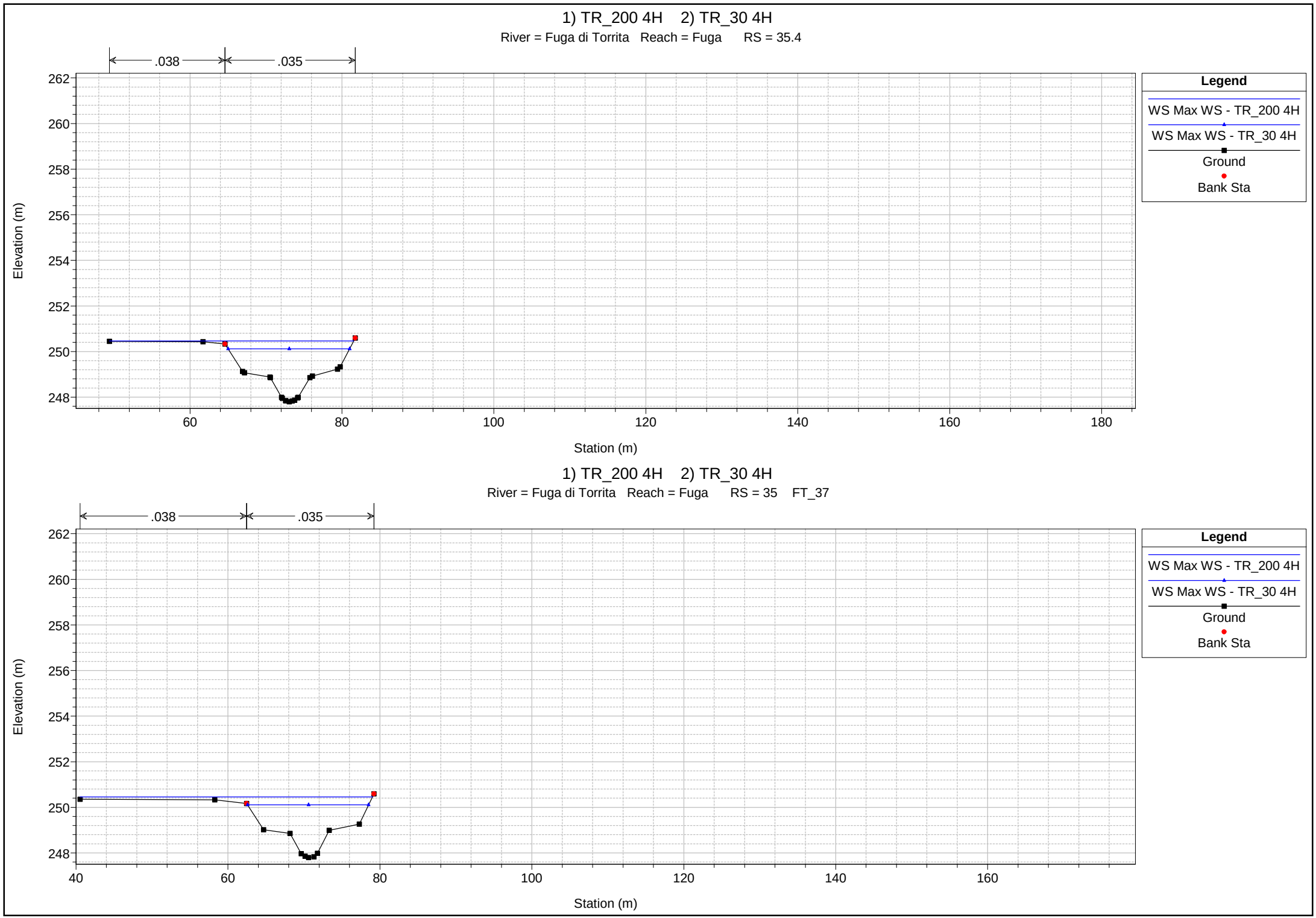

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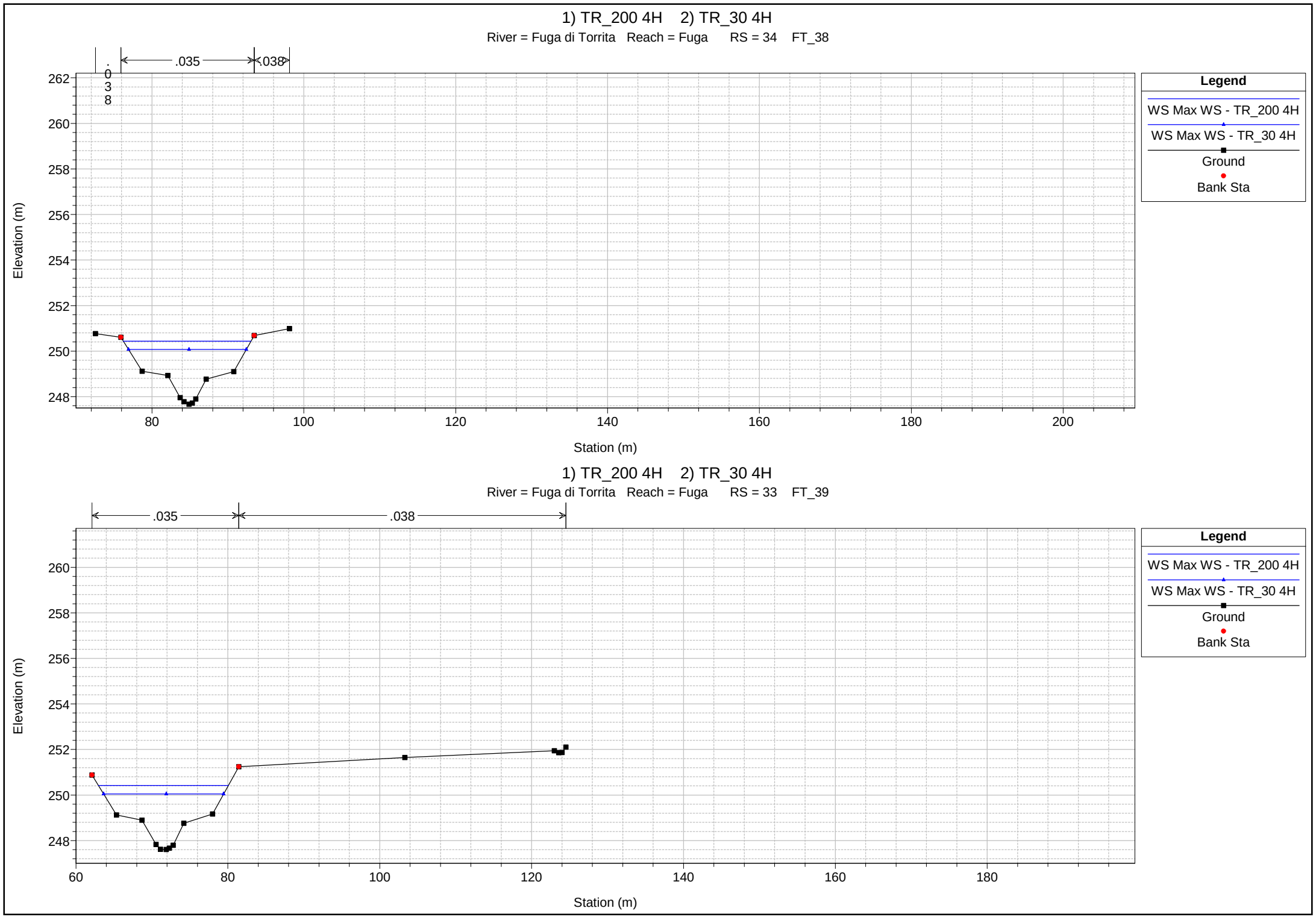

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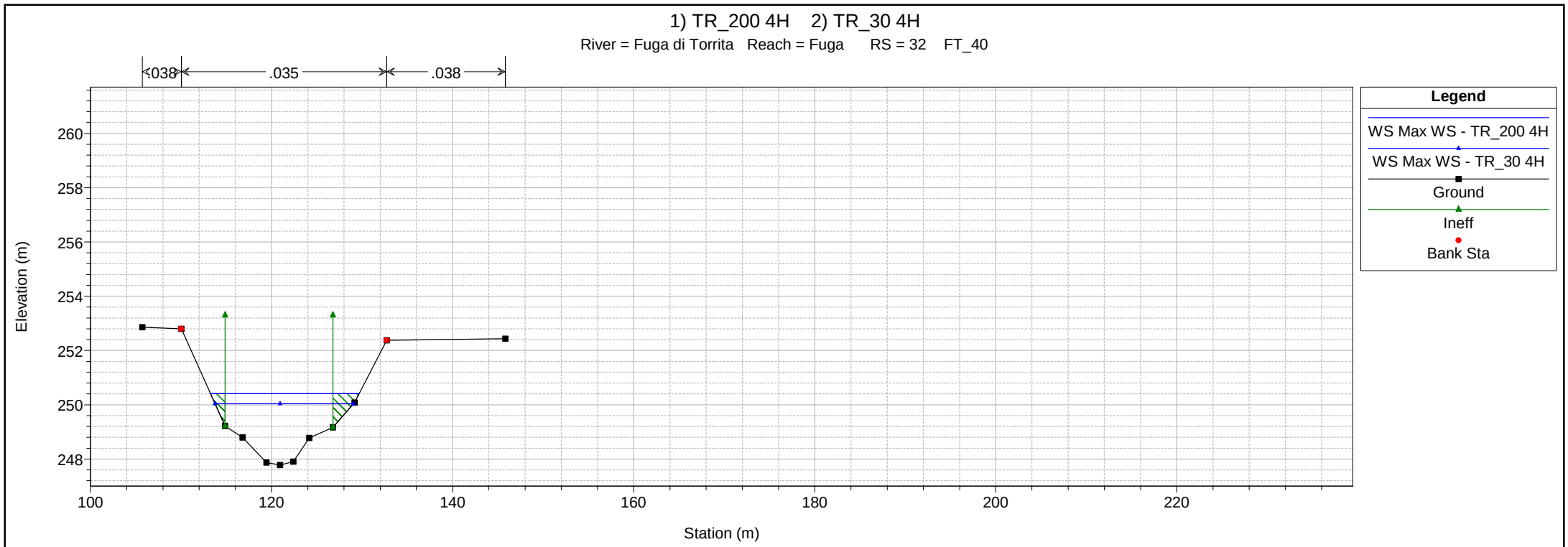

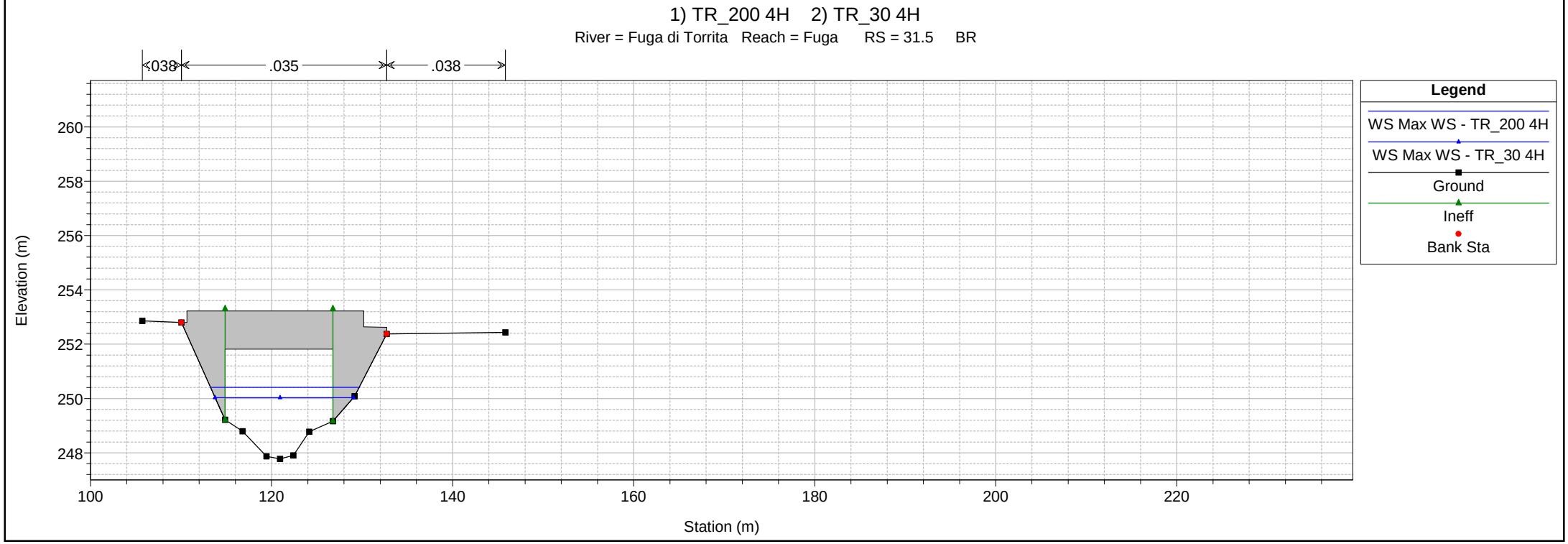

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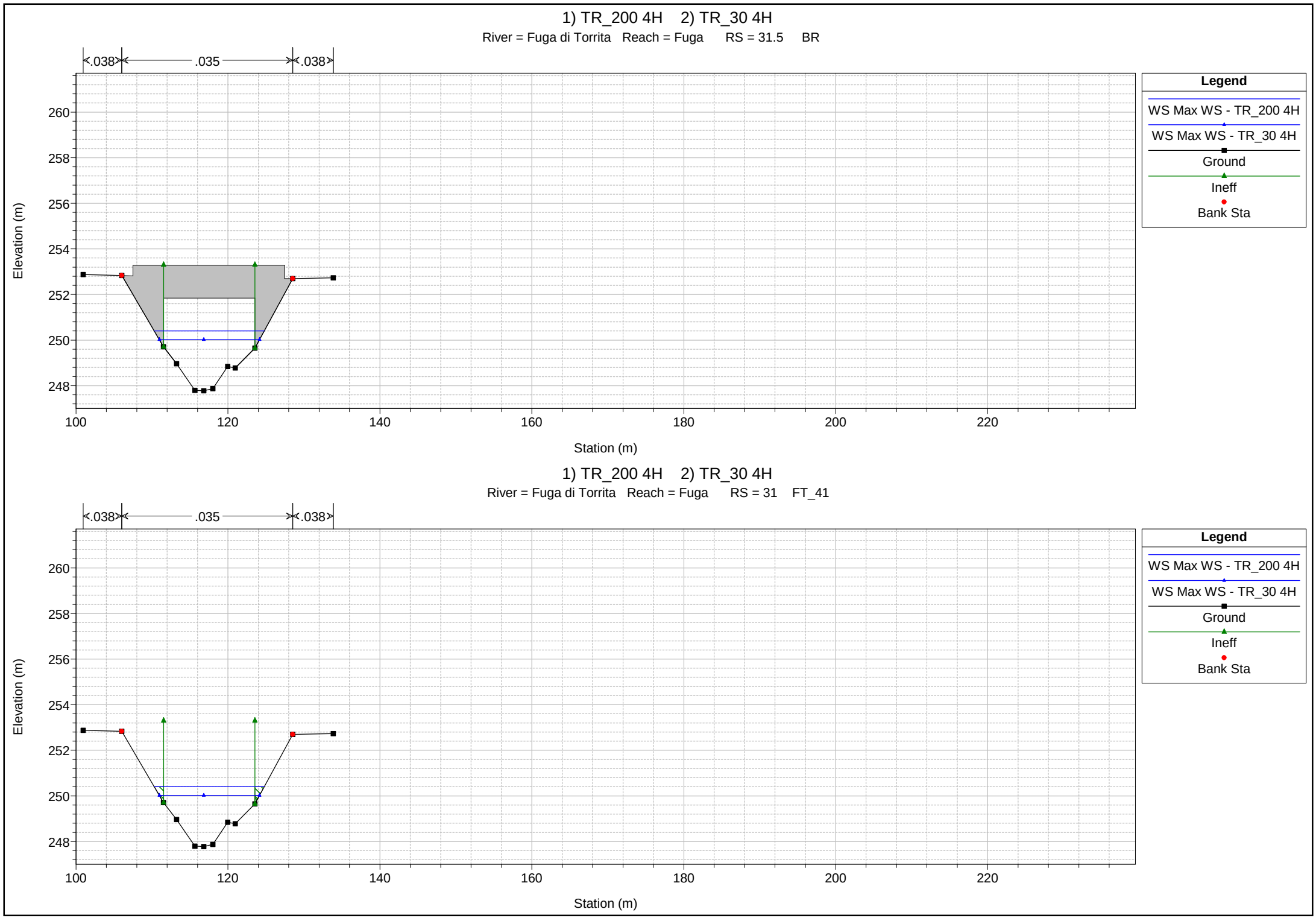

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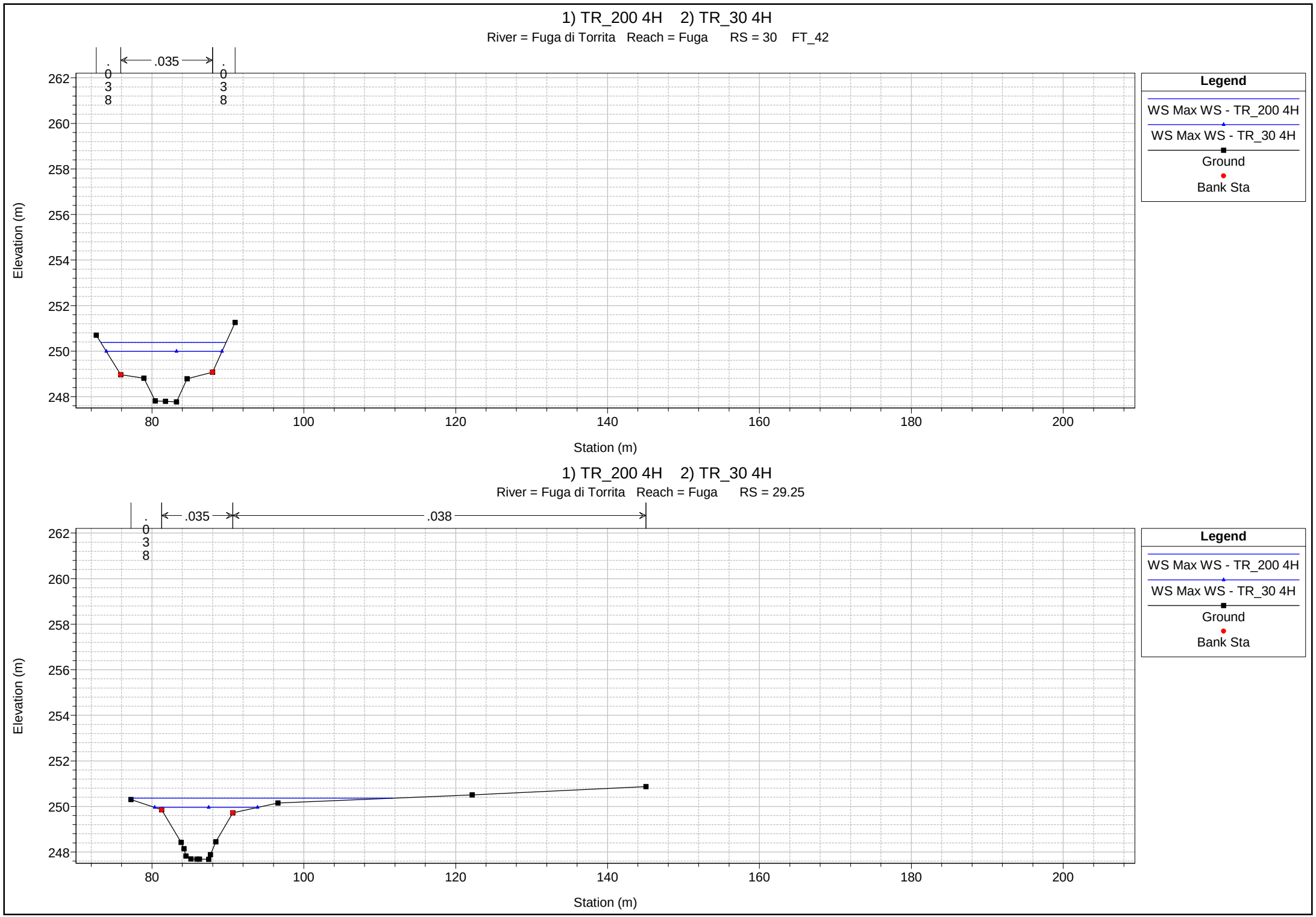

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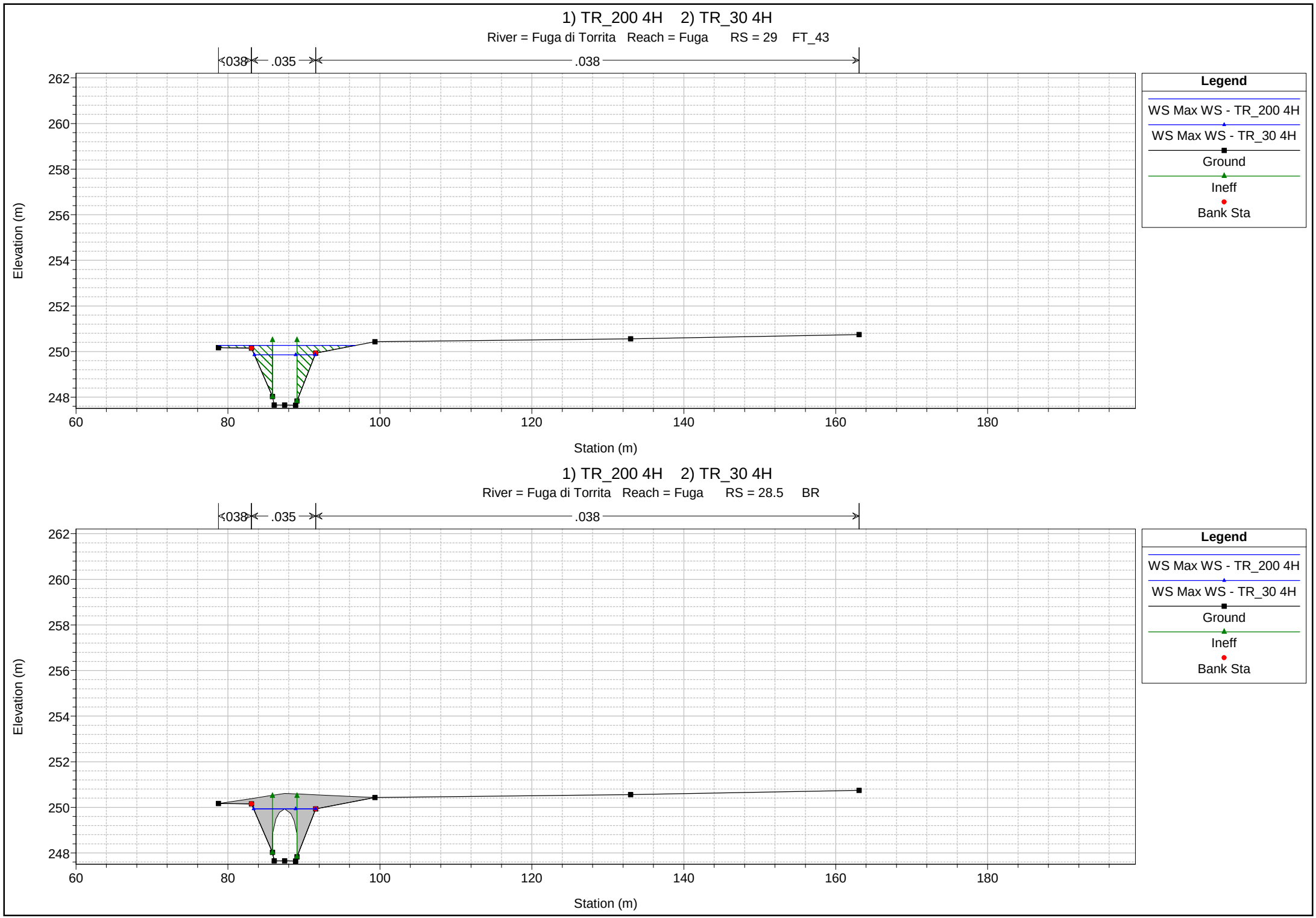

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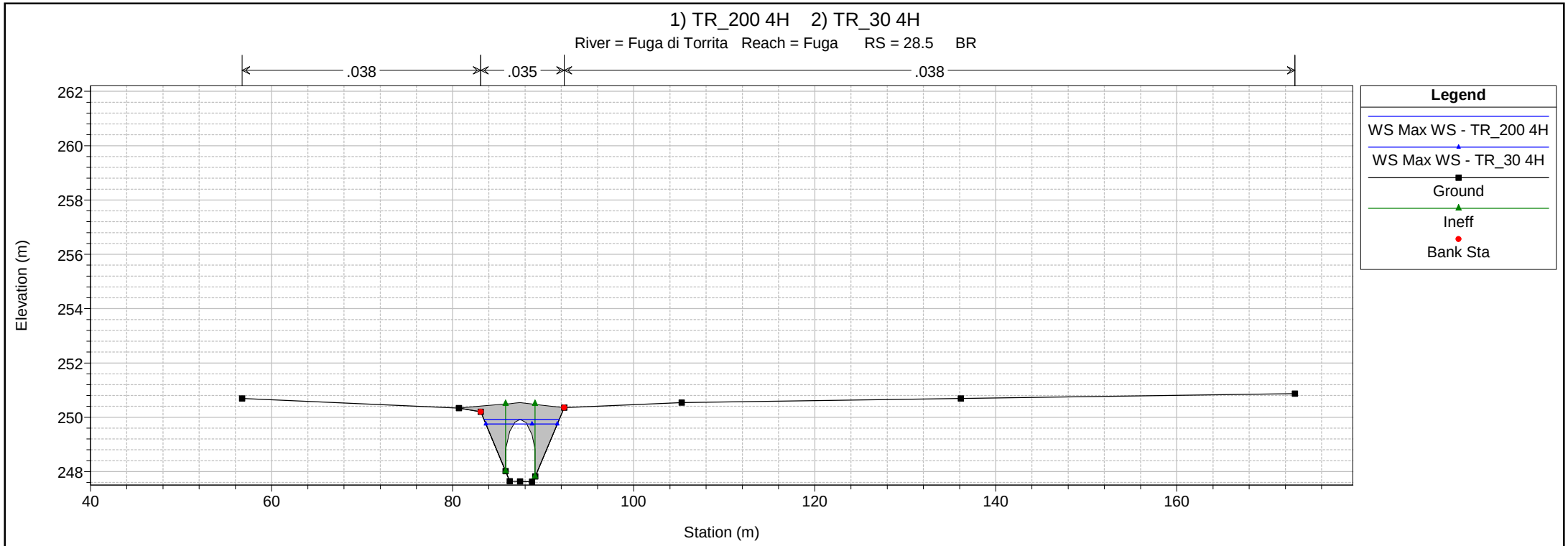

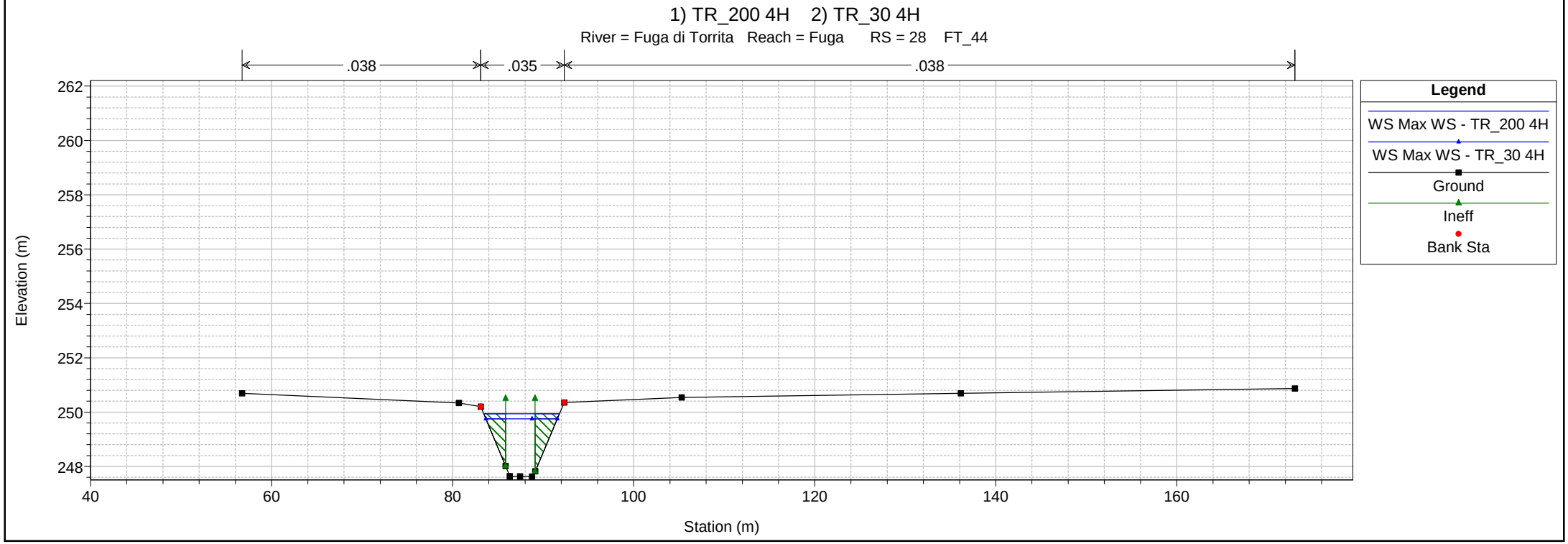

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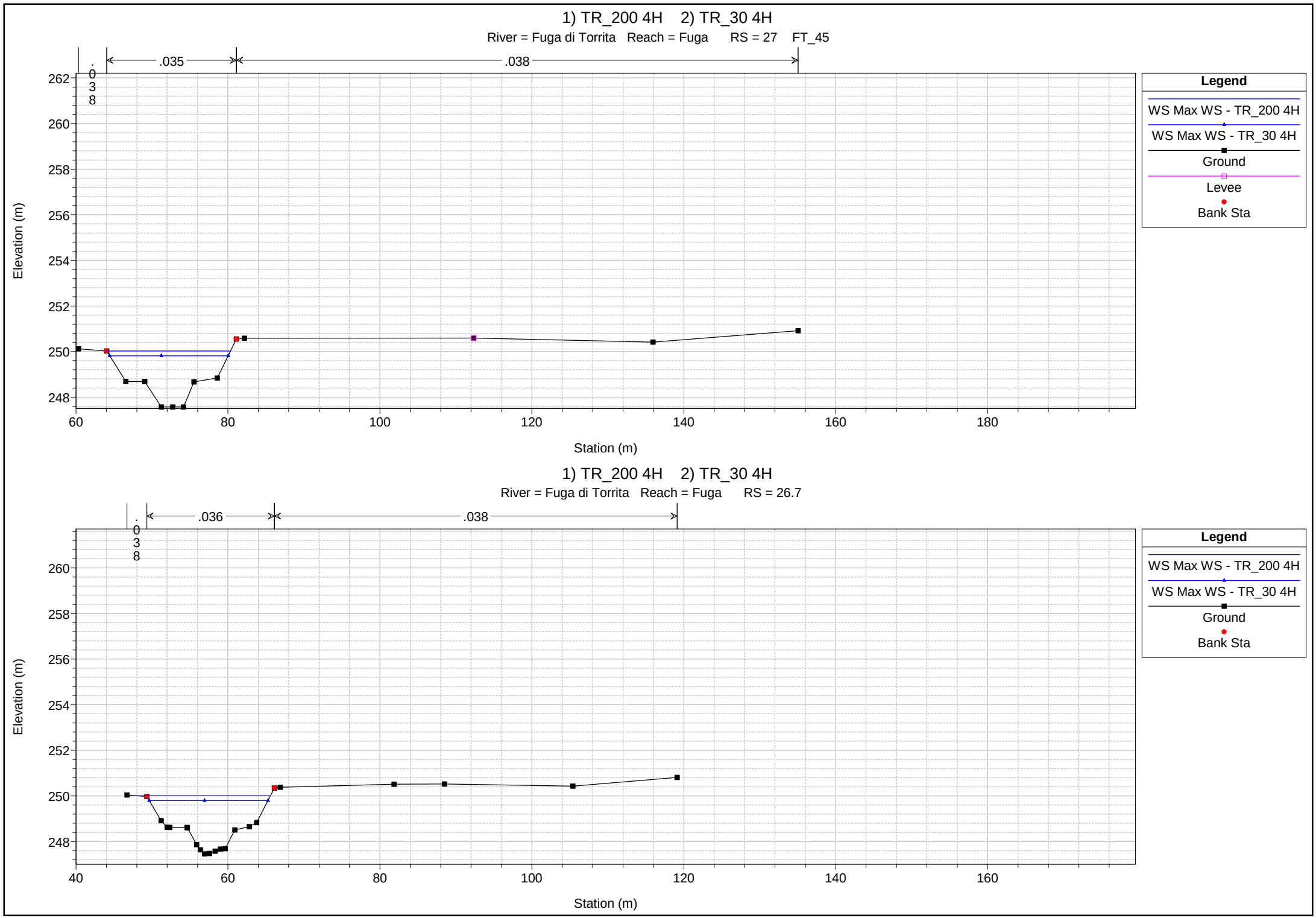

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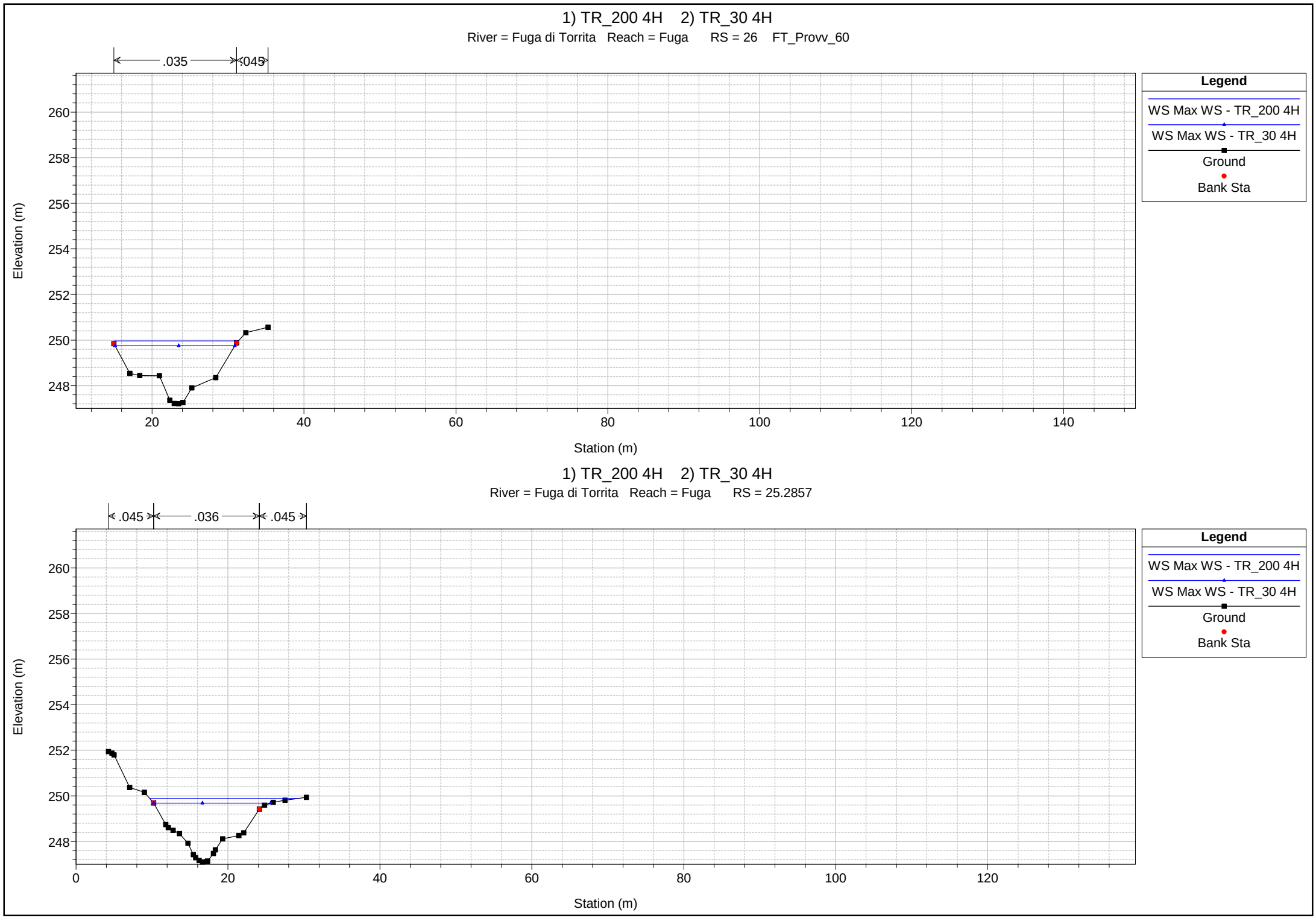
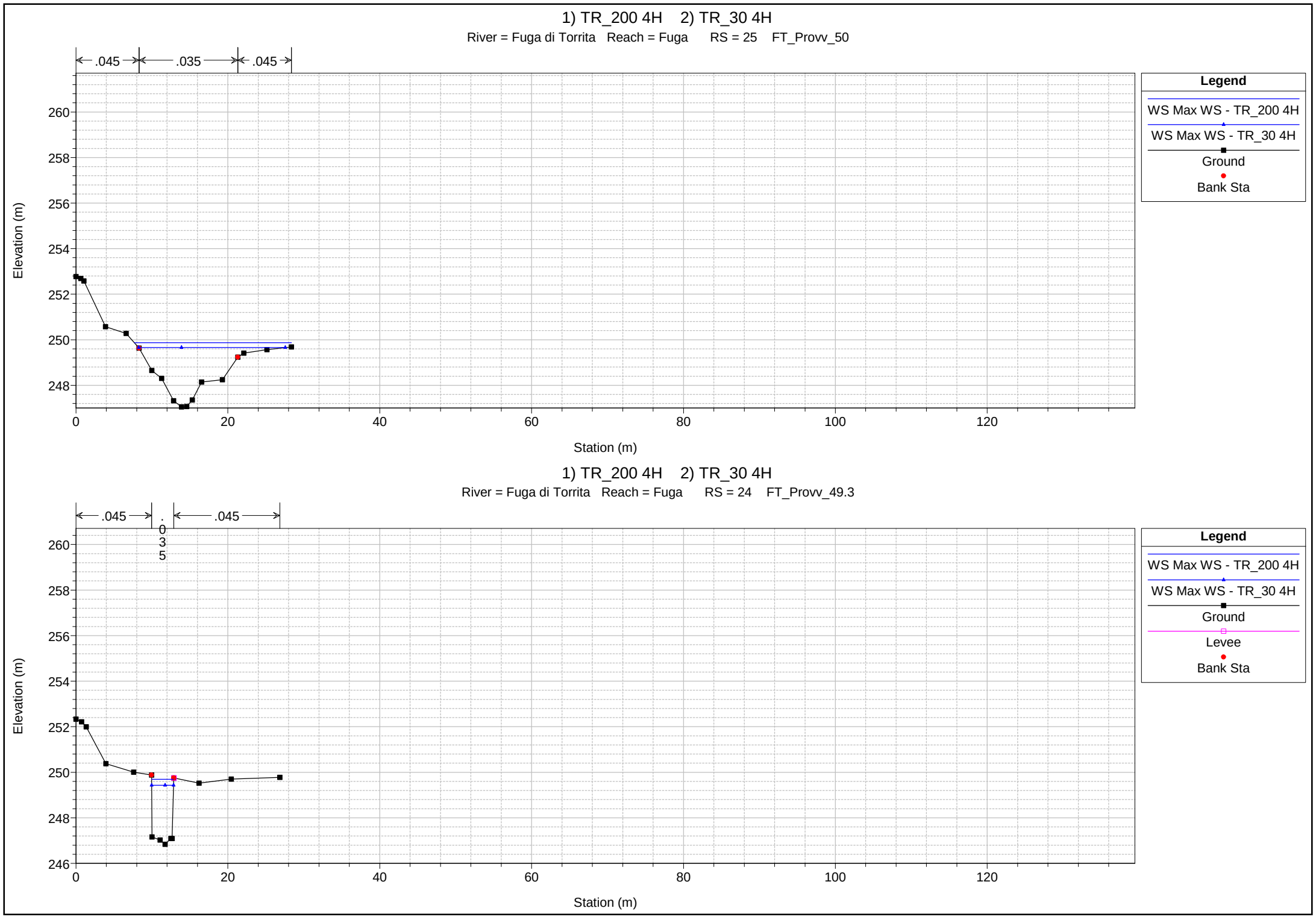


1 cm Horiz. = 6 m 1 cm Vert. = 2 m



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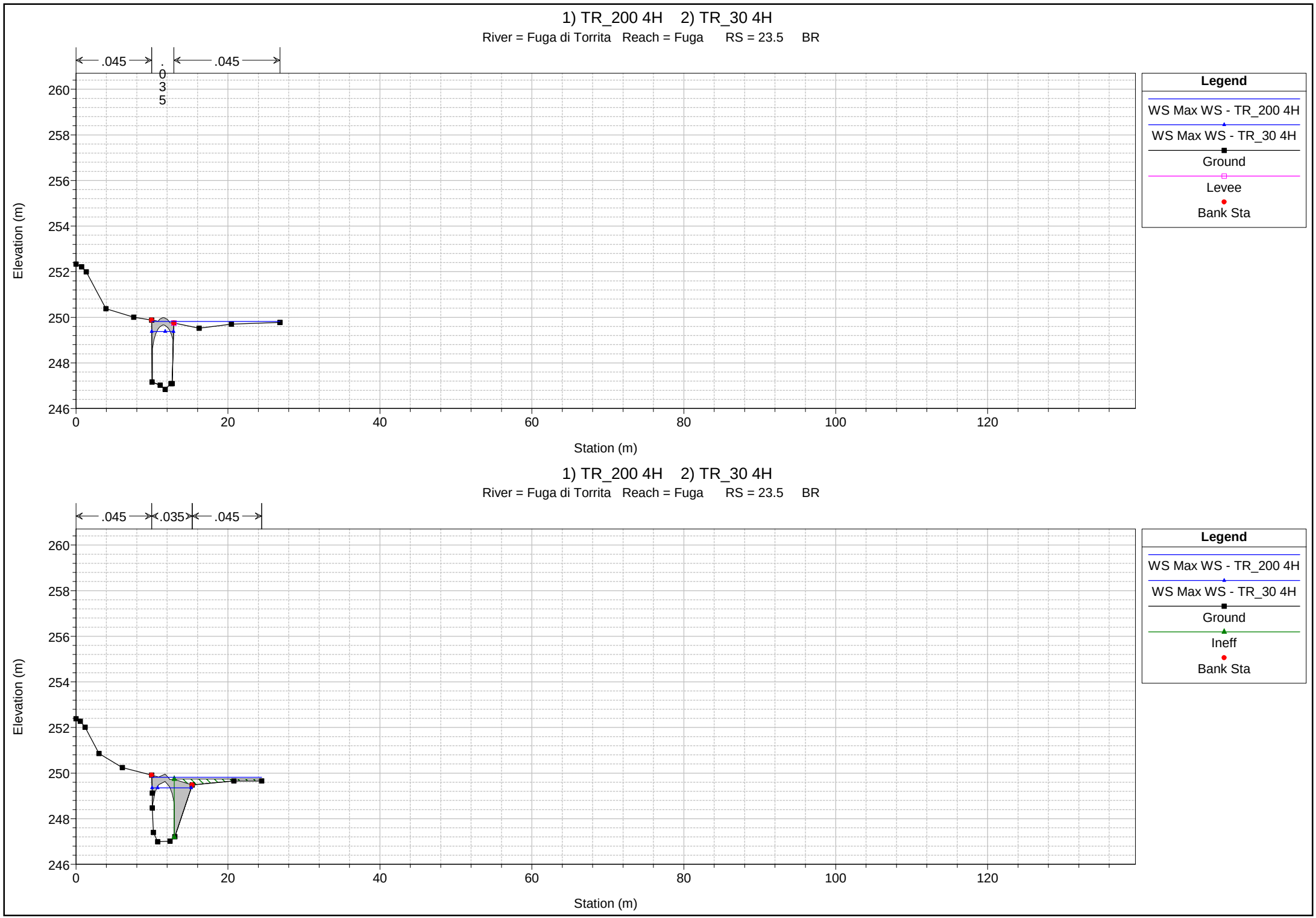

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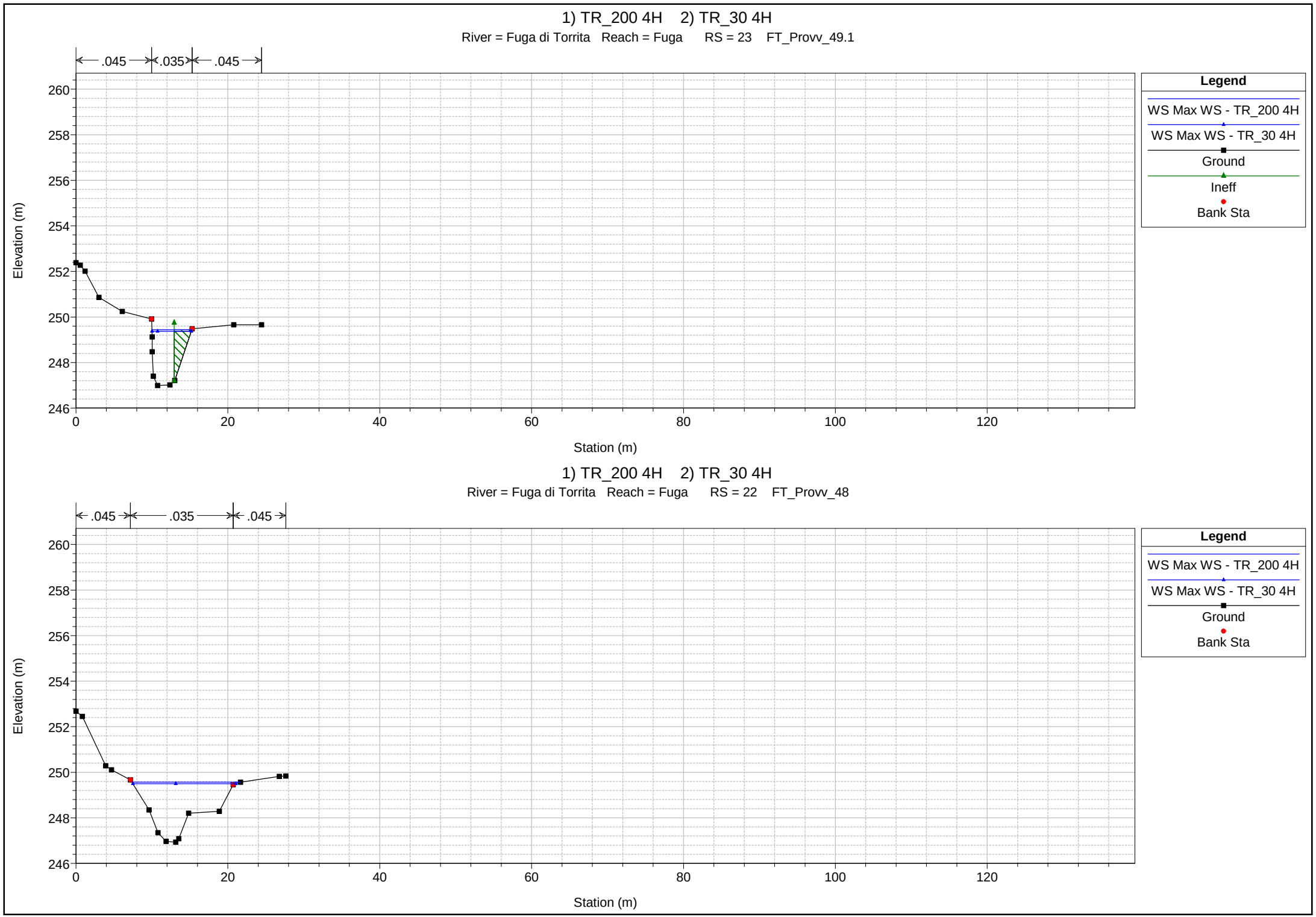

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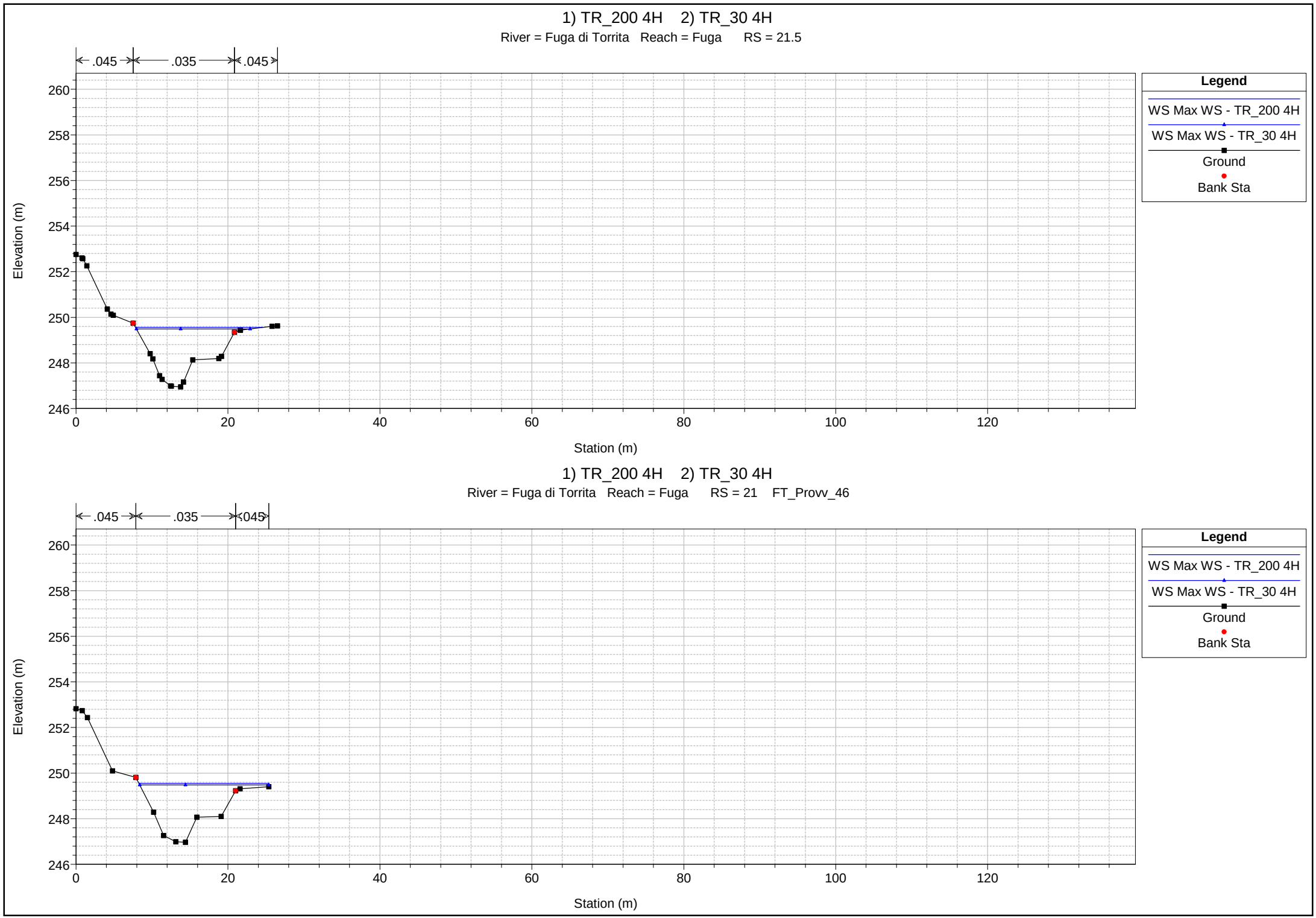

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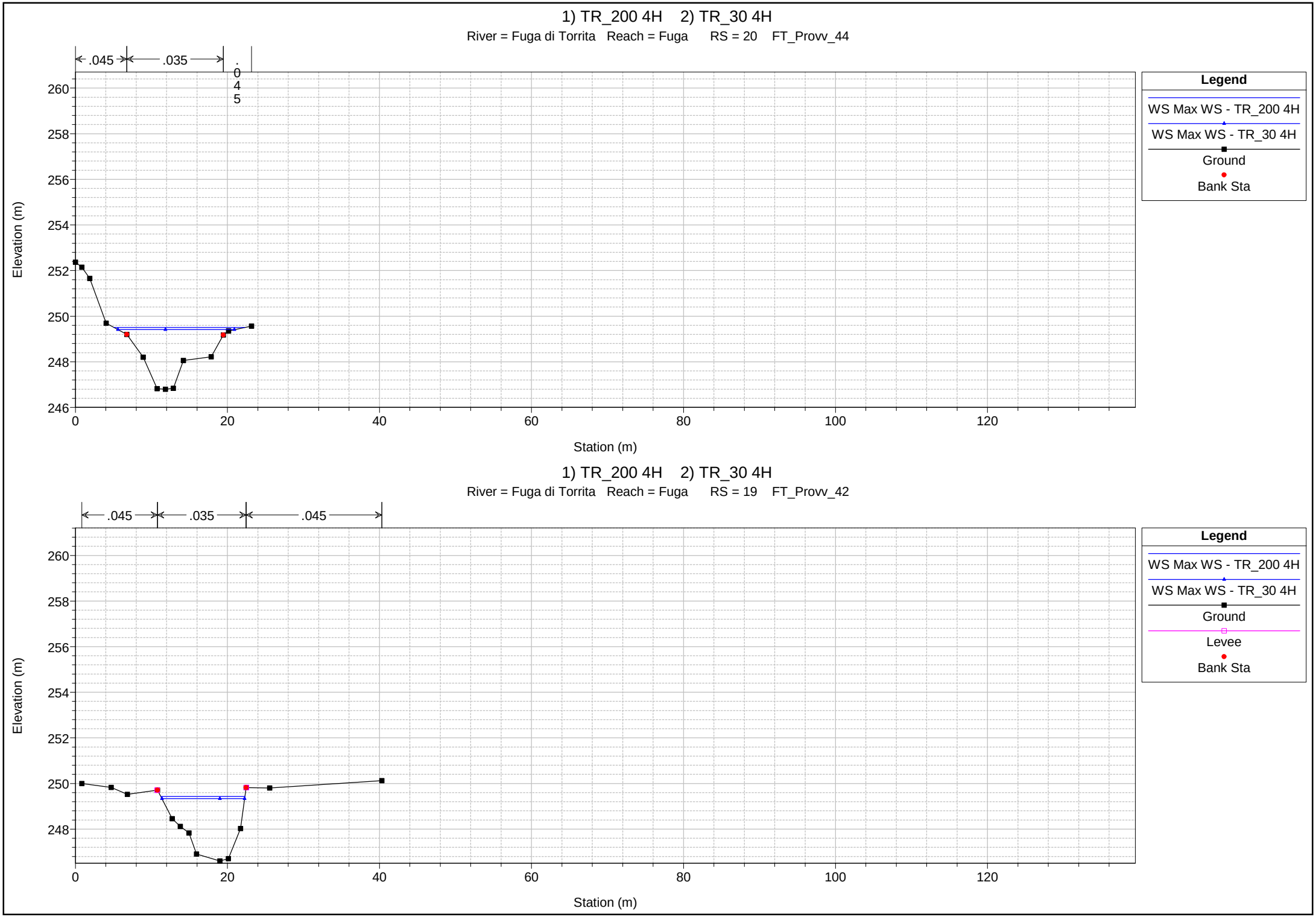

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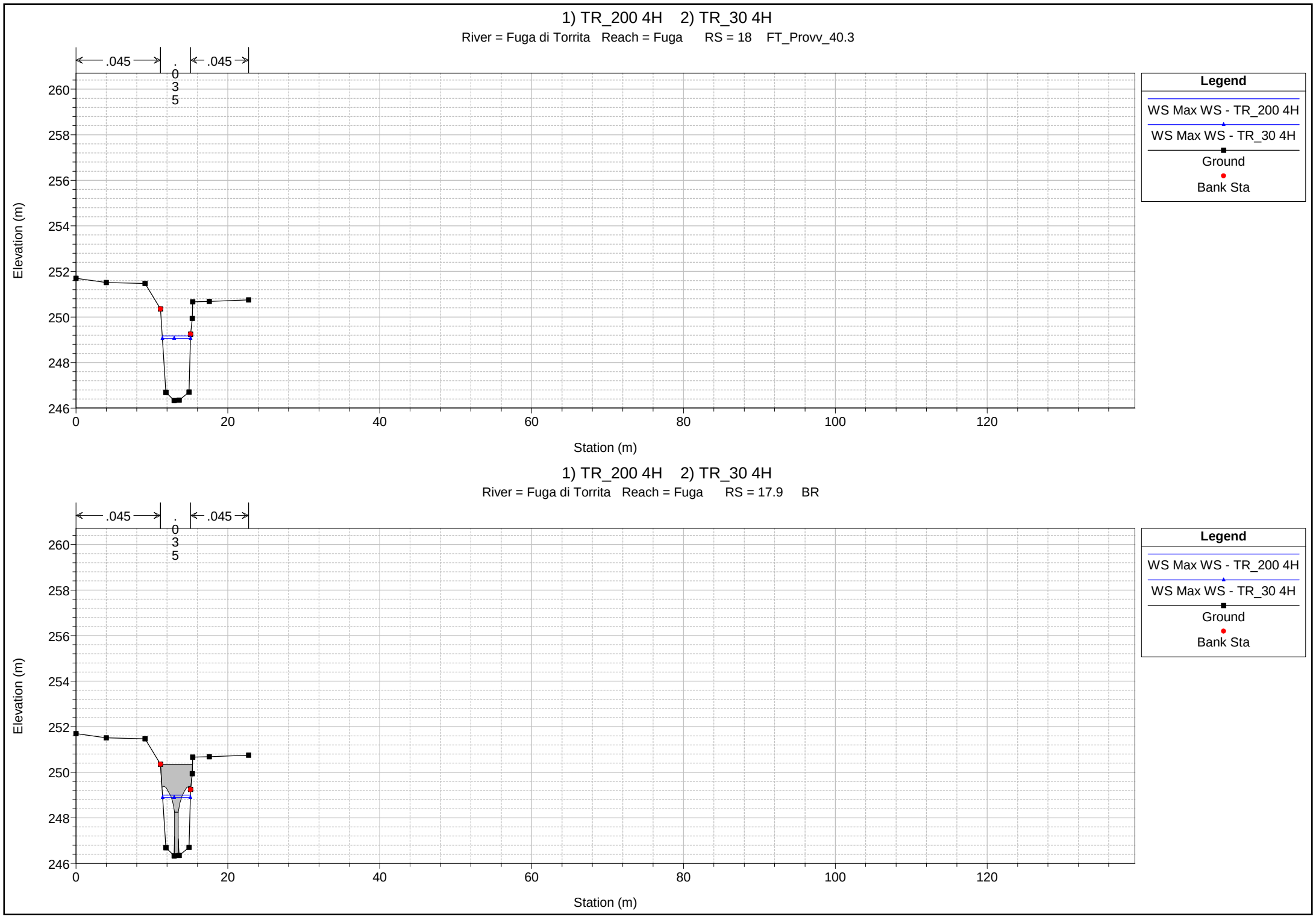

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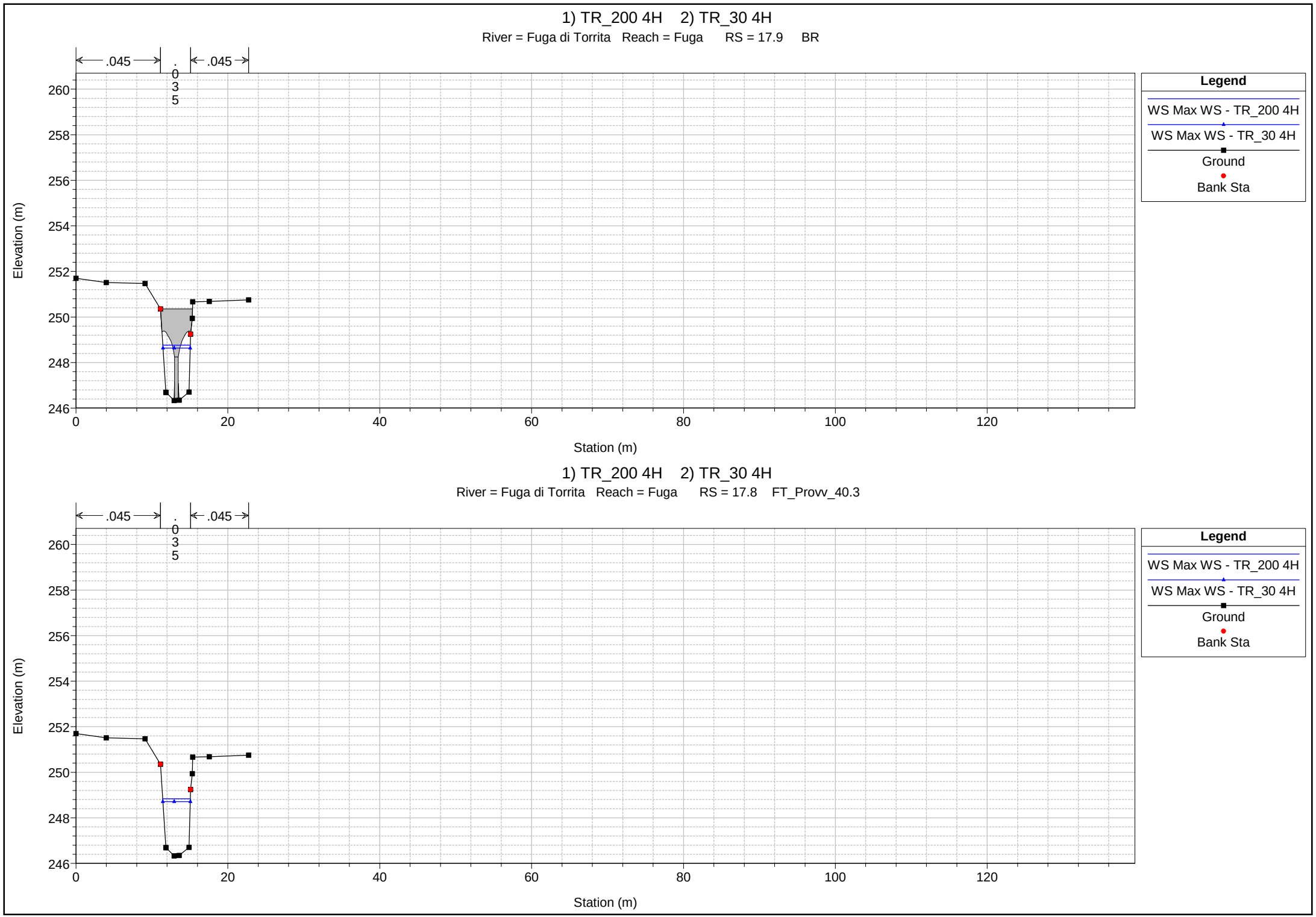

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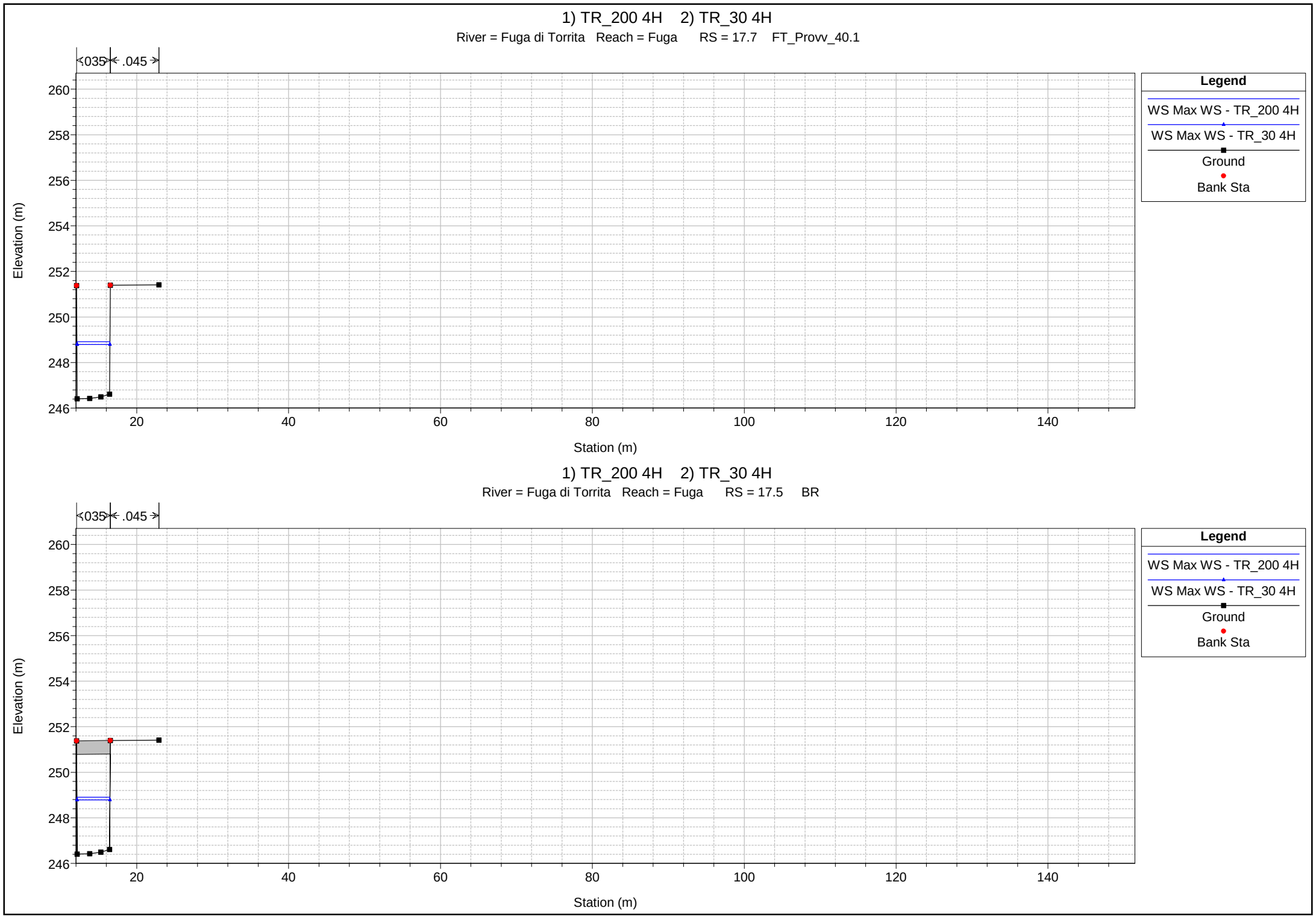

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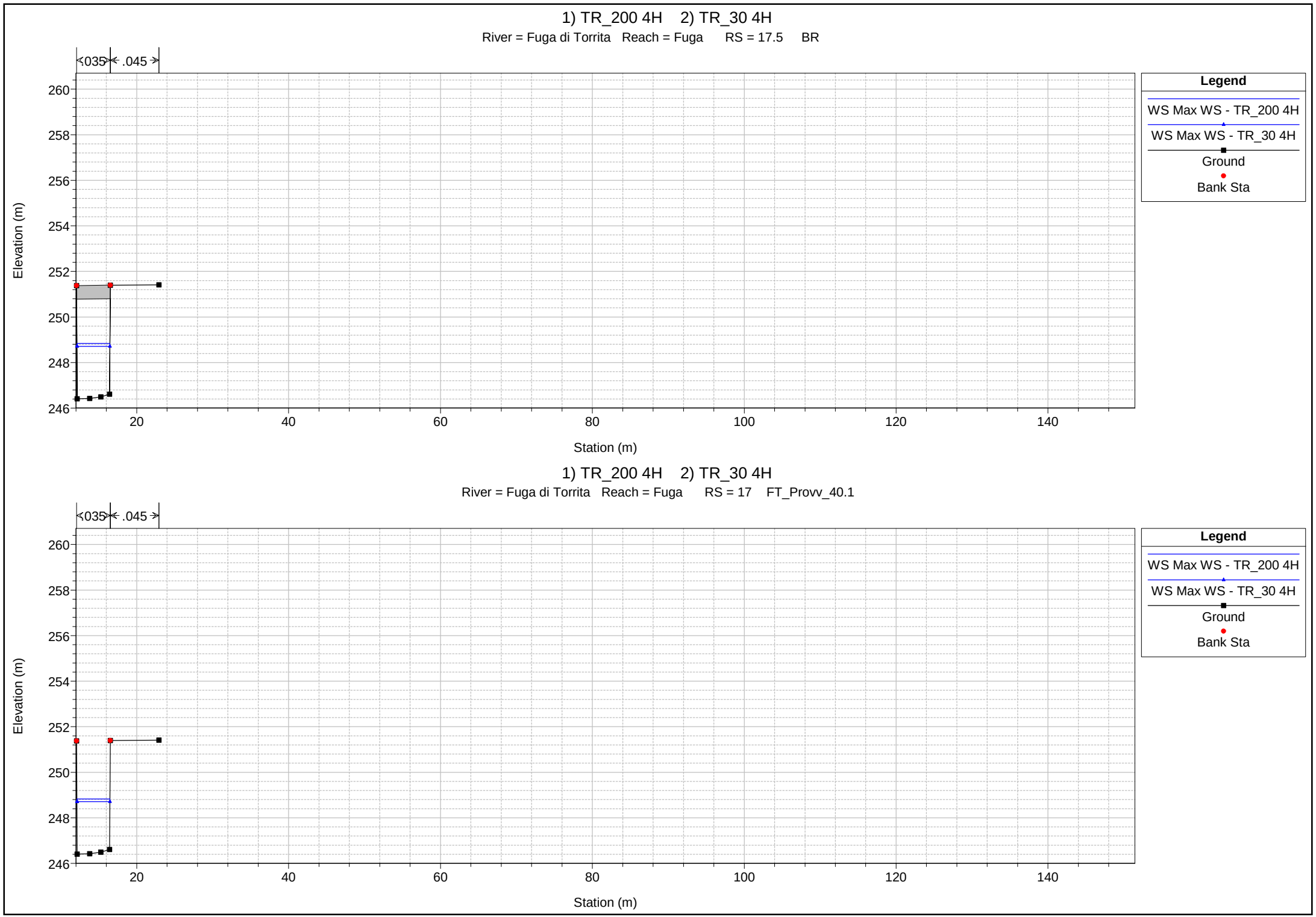

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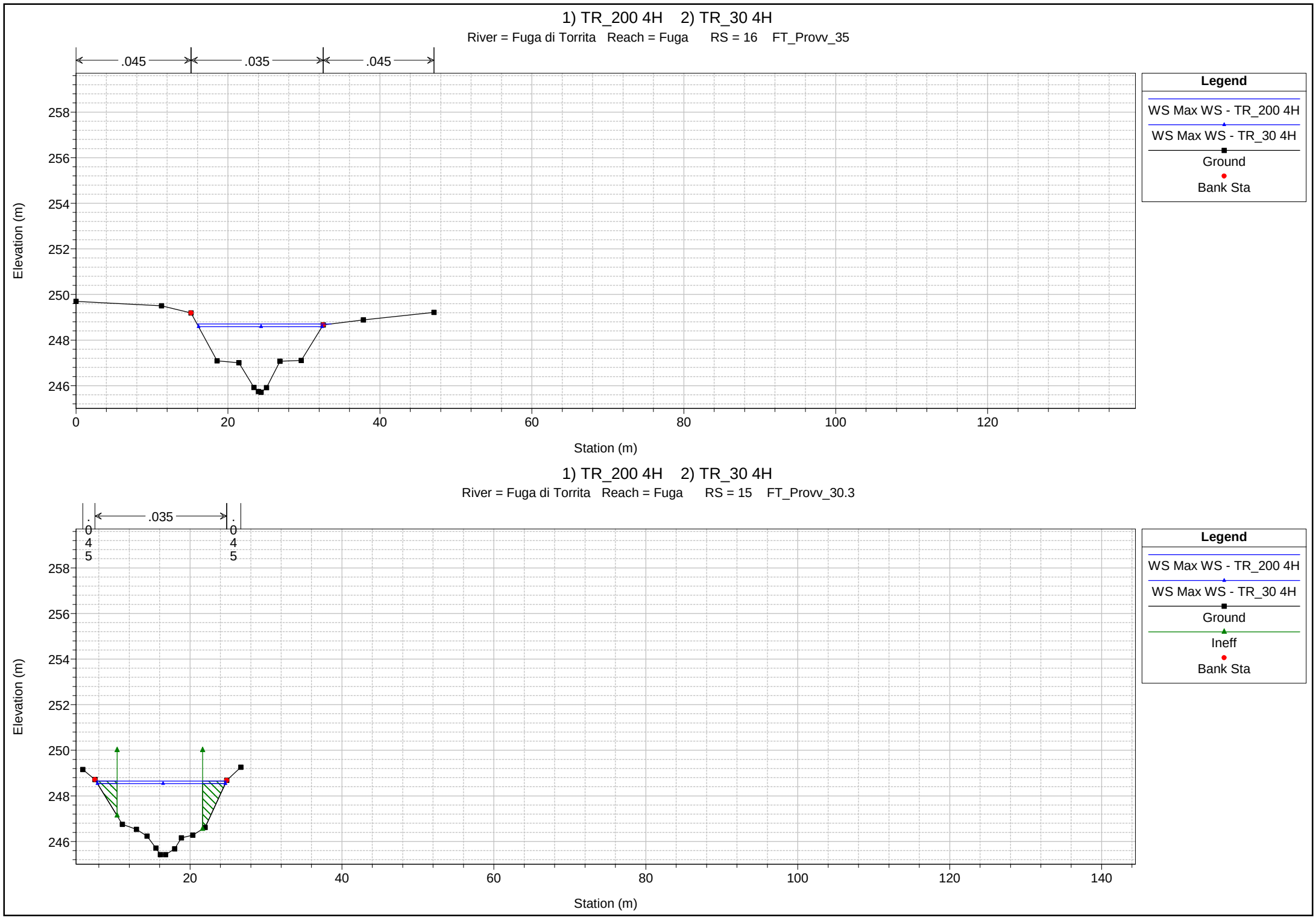

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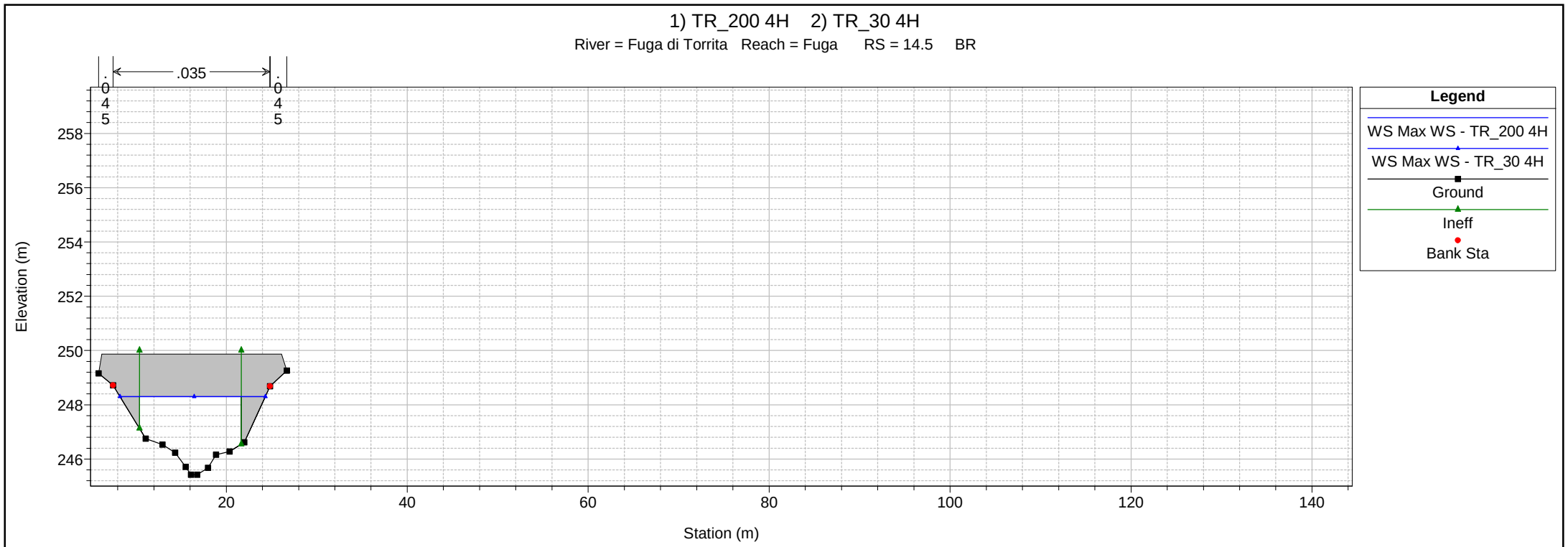

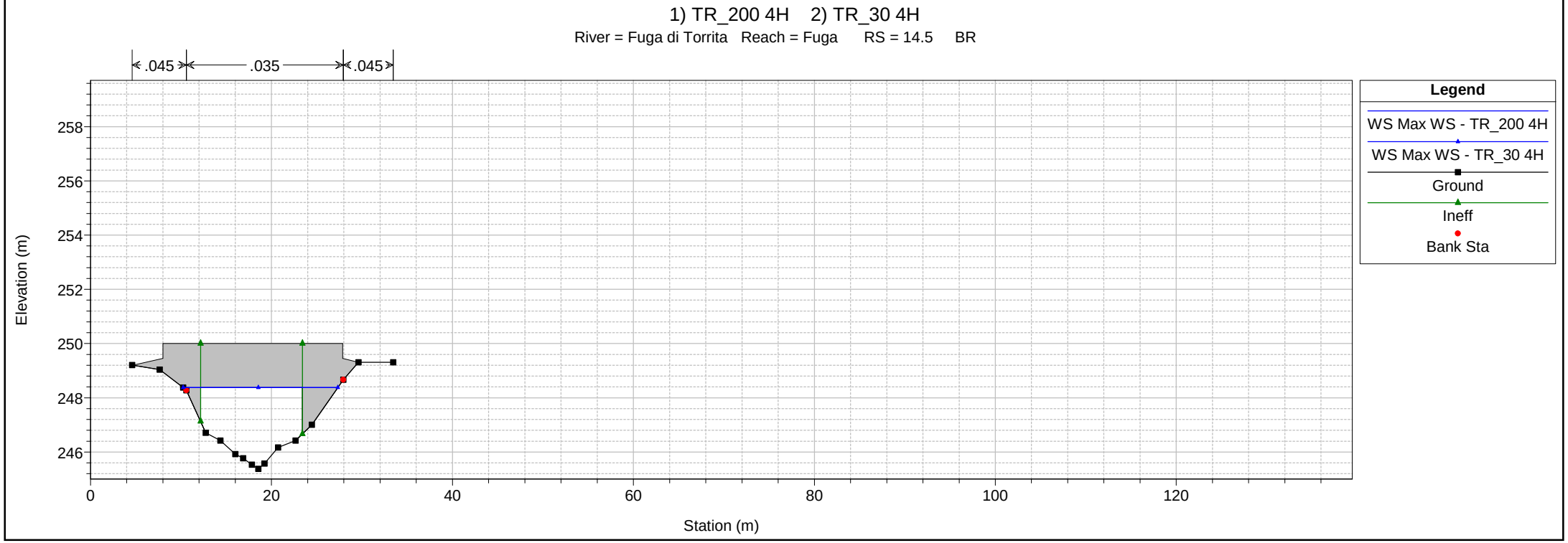

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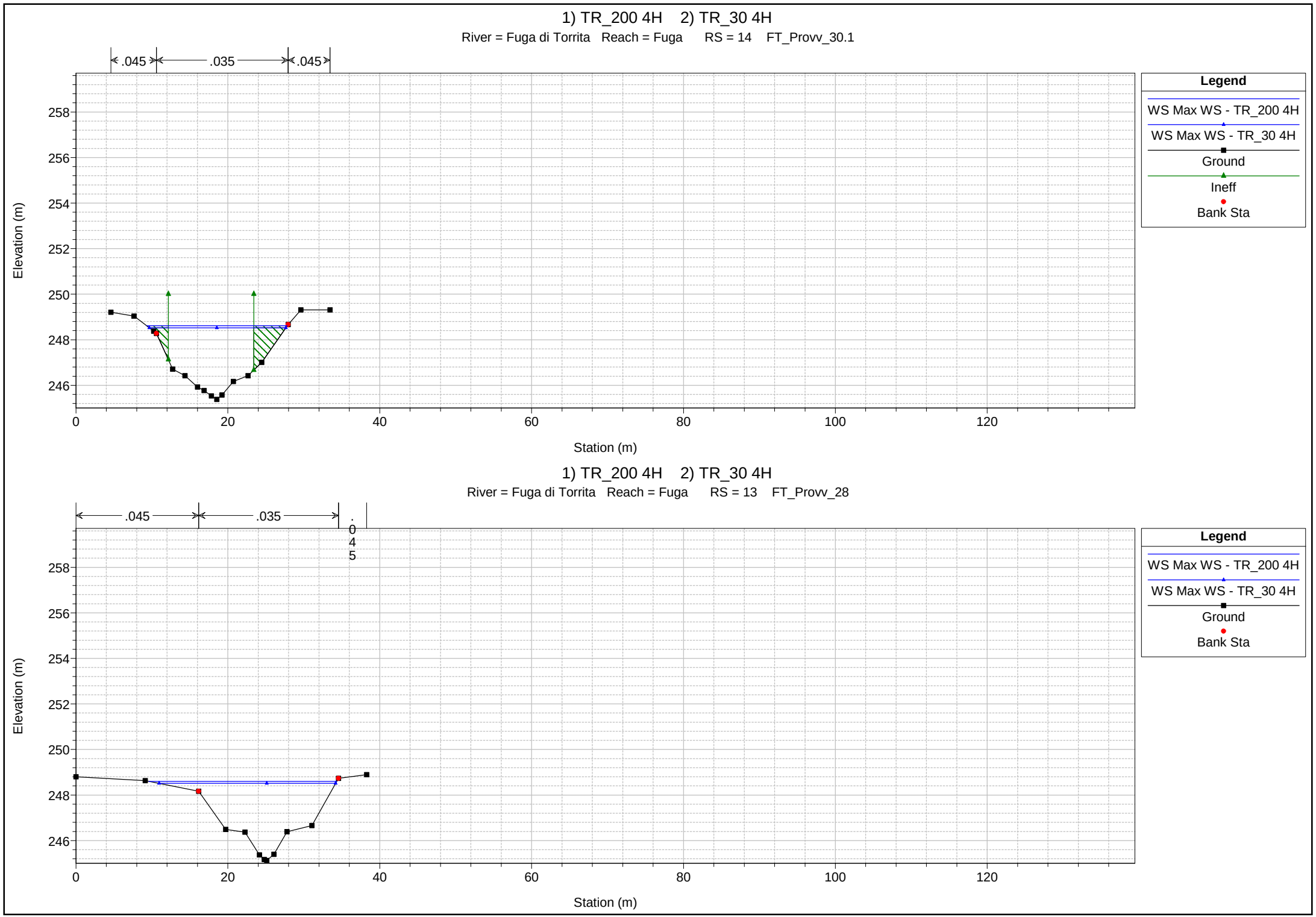

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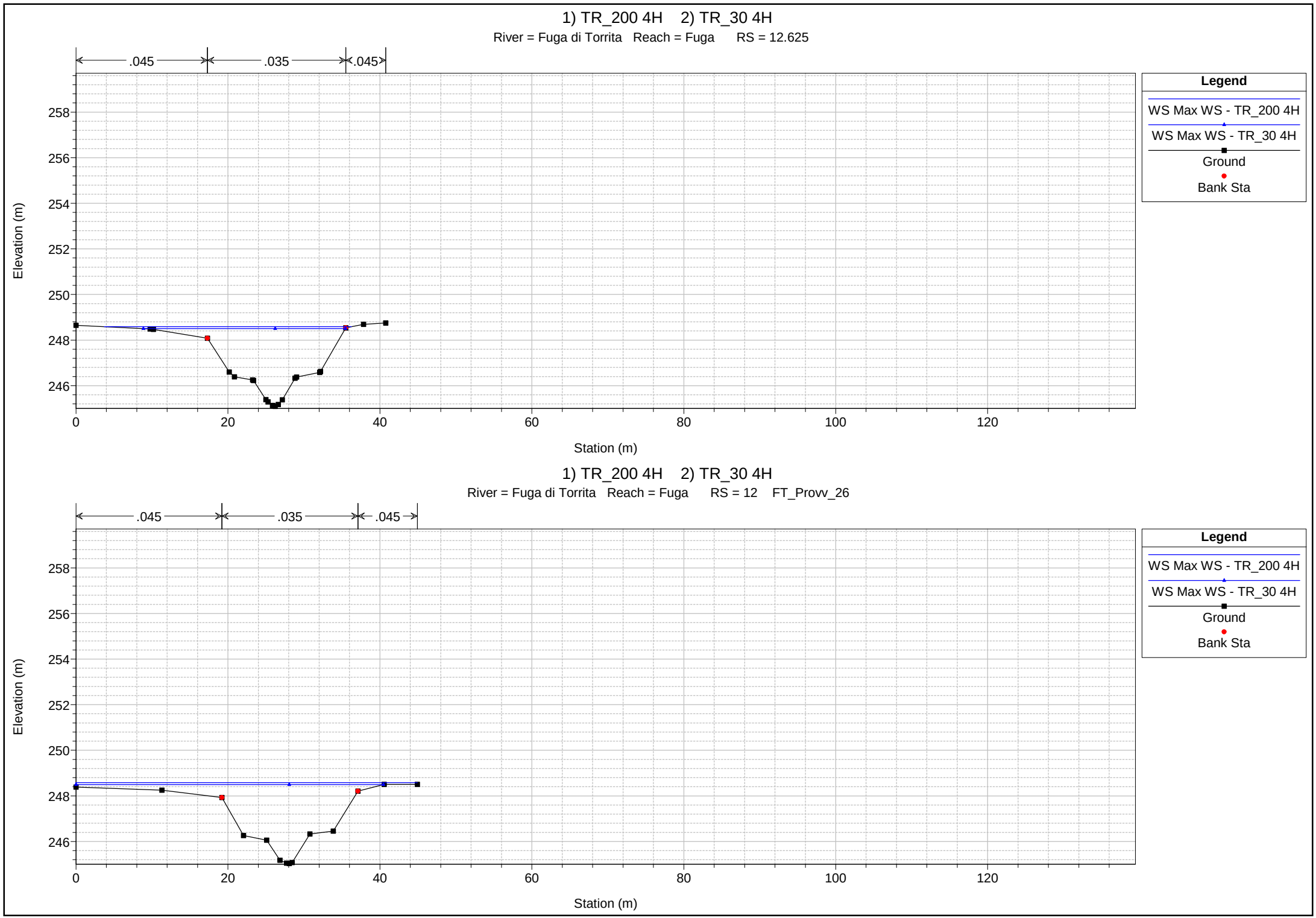
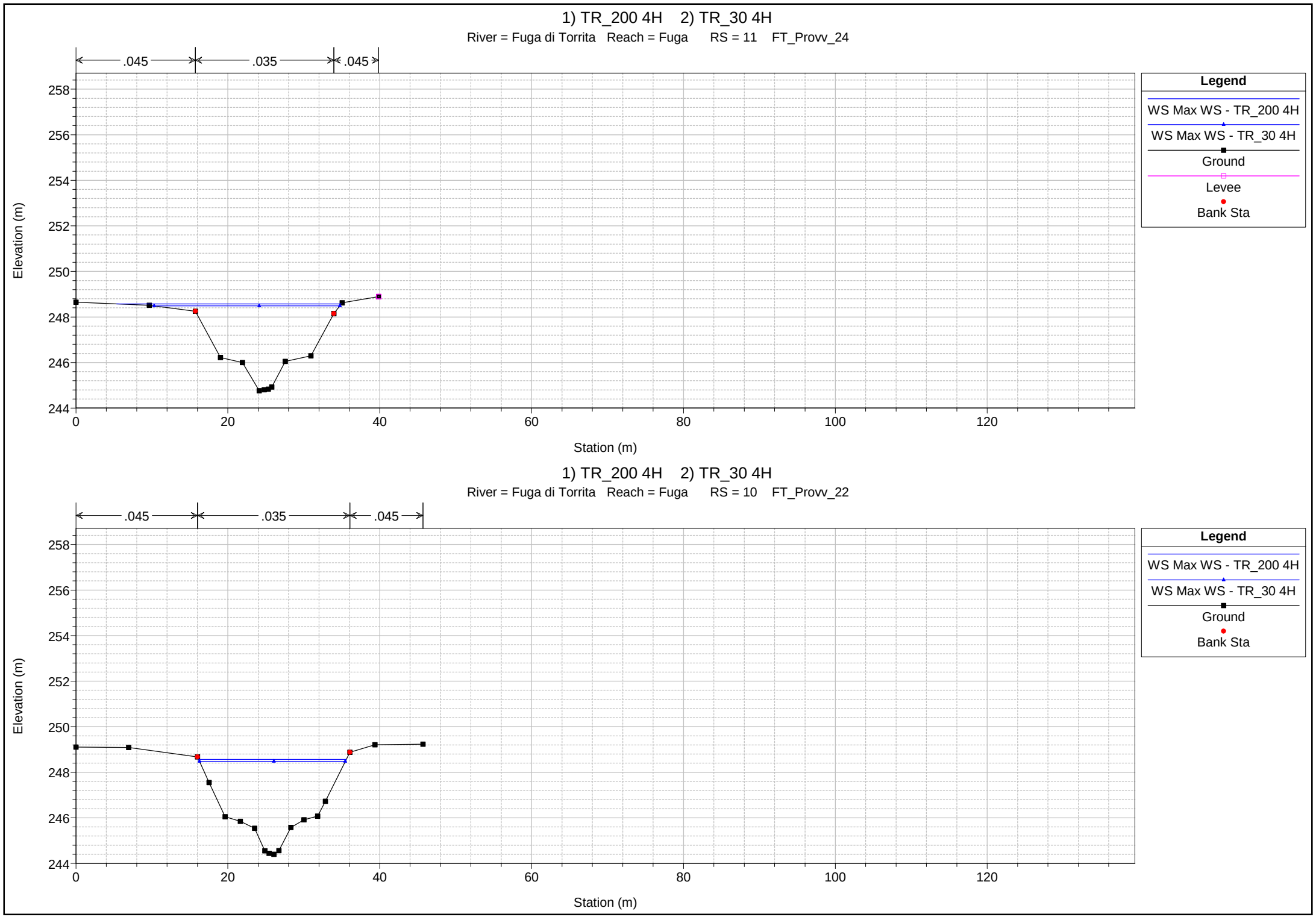


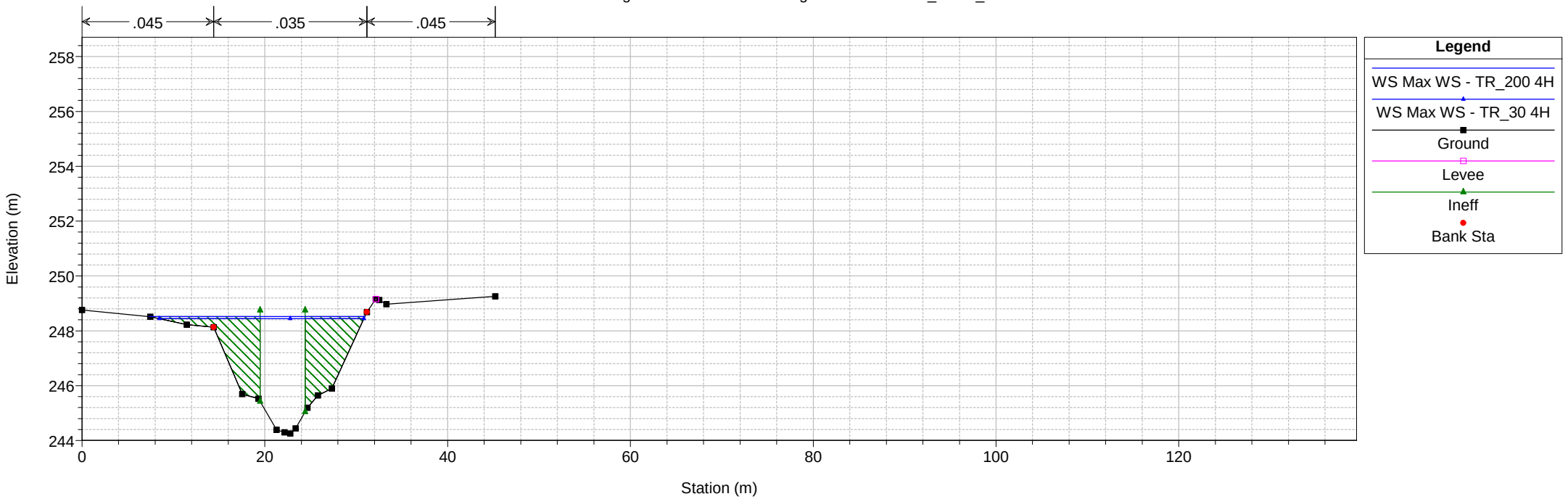
1 cm Horiz. = 6 m 1 cm Vert. = 2 m



1 cm Horiz. = 6 m 1 cm Vert. = 2 m

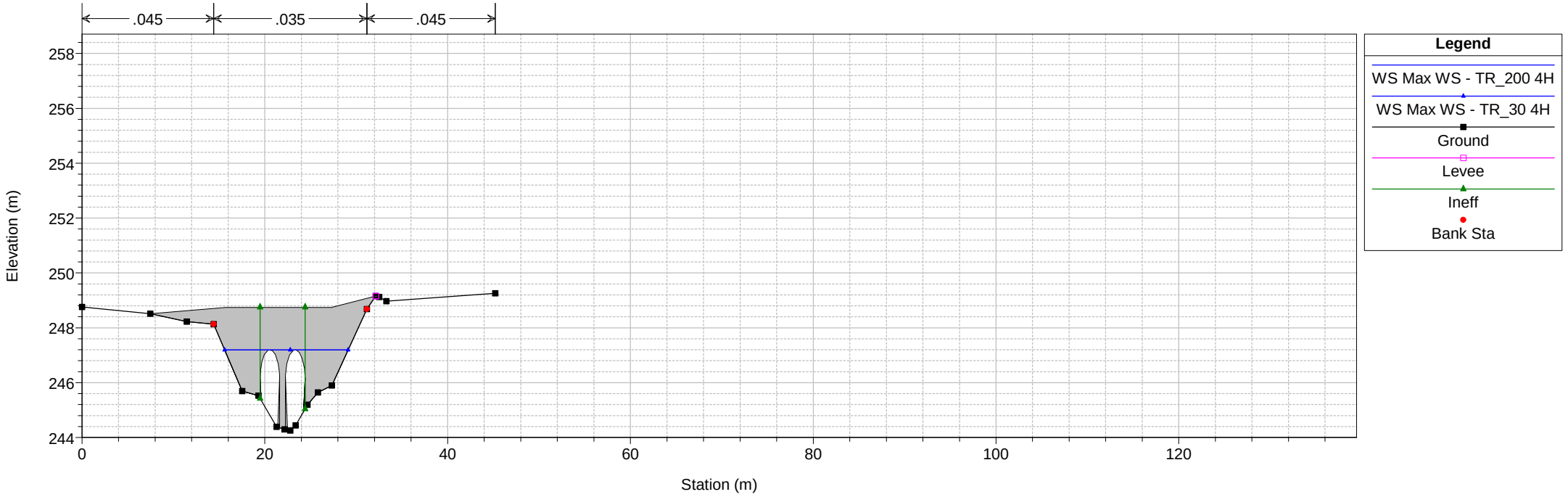
1) TR_200 4H 2) TR_30 4H

River = Fuga di Torrita Reach = Fuga RS = 9 FT_Provv_20.3

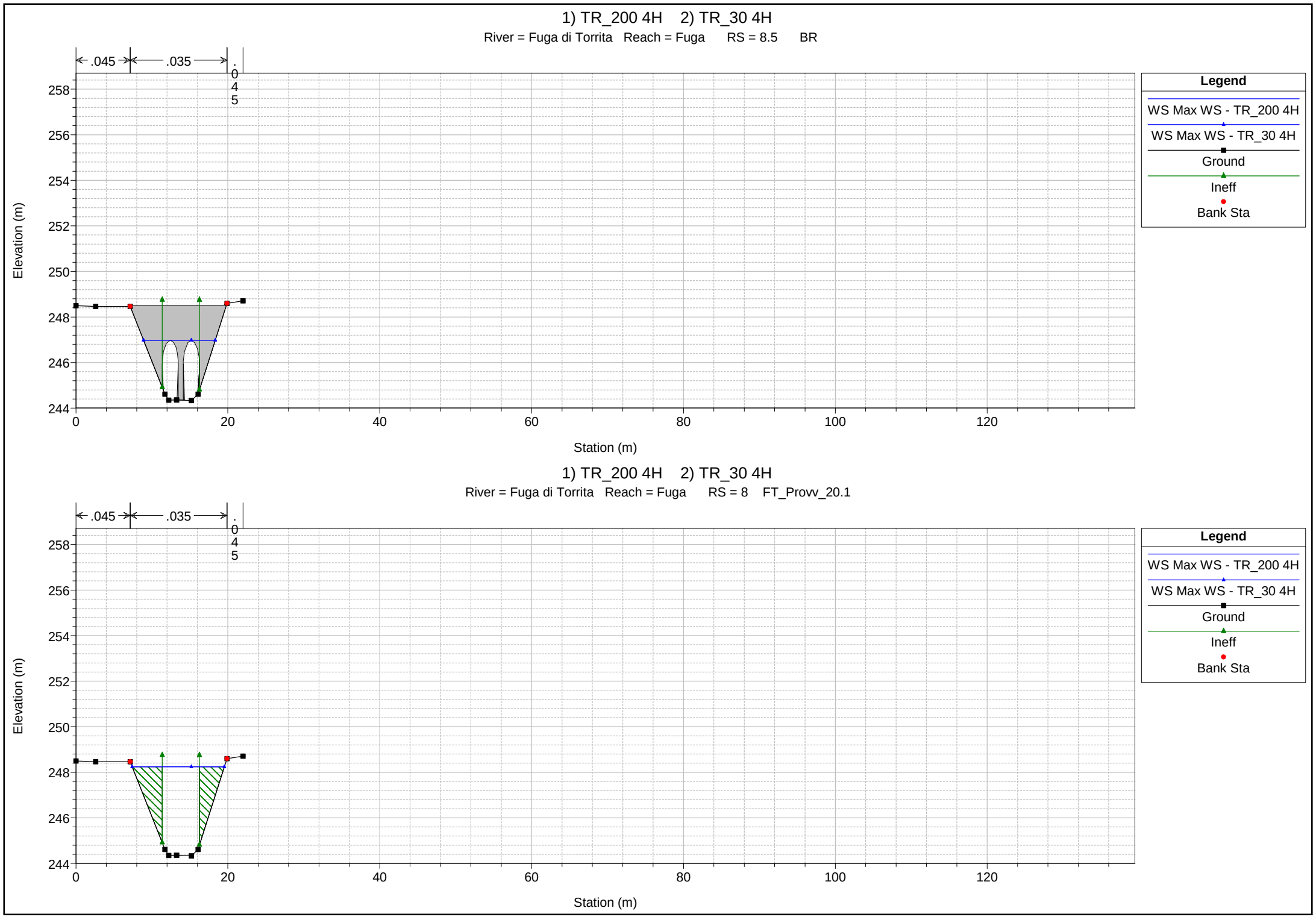


1) TR_200 4H 2) TR_30 4H

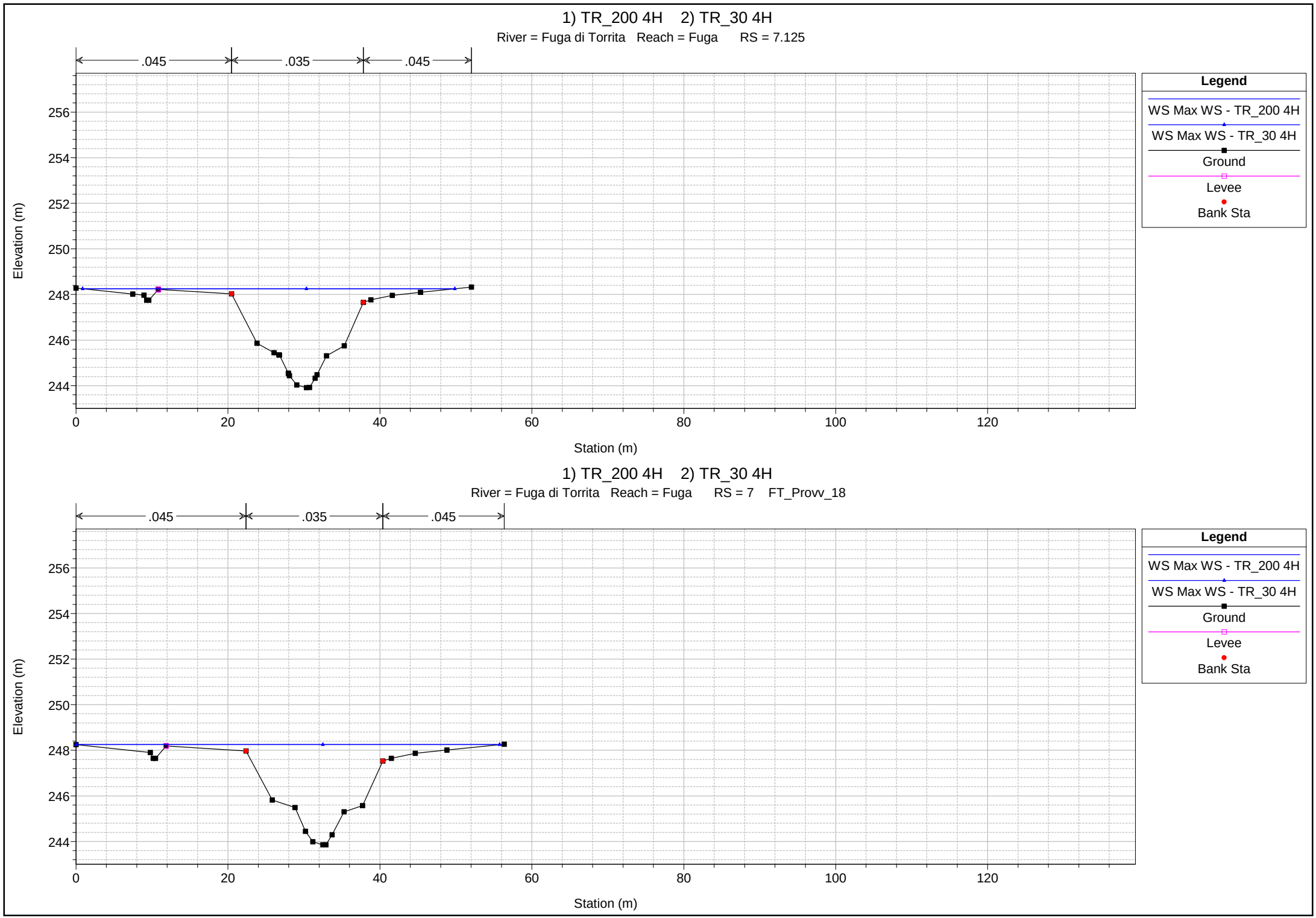
River = Fuga di Torrita Reach = Fuga RS = 8.5 BR



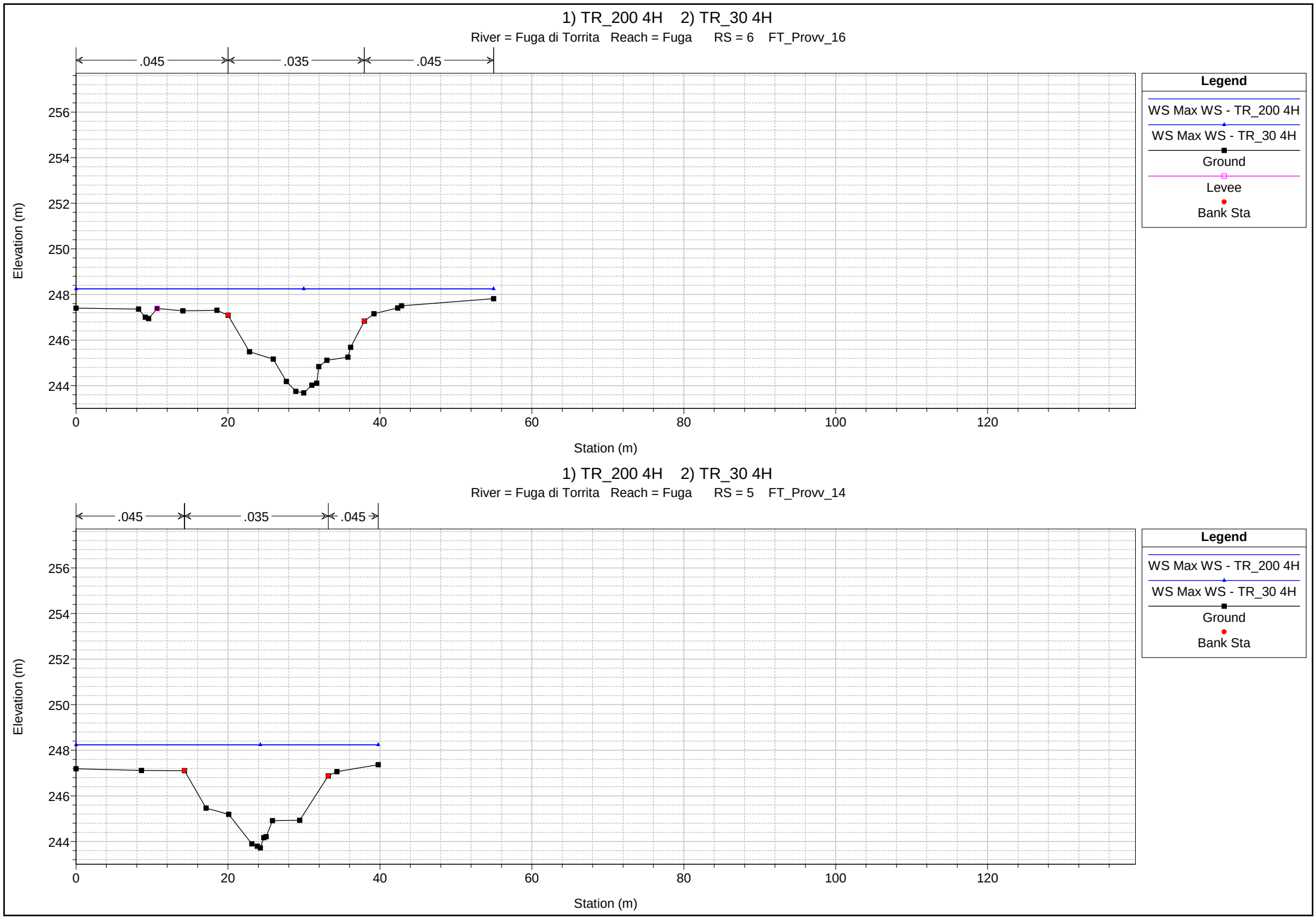
1 cm Horiz. = 6 m 1 cm Vert. = 2 m



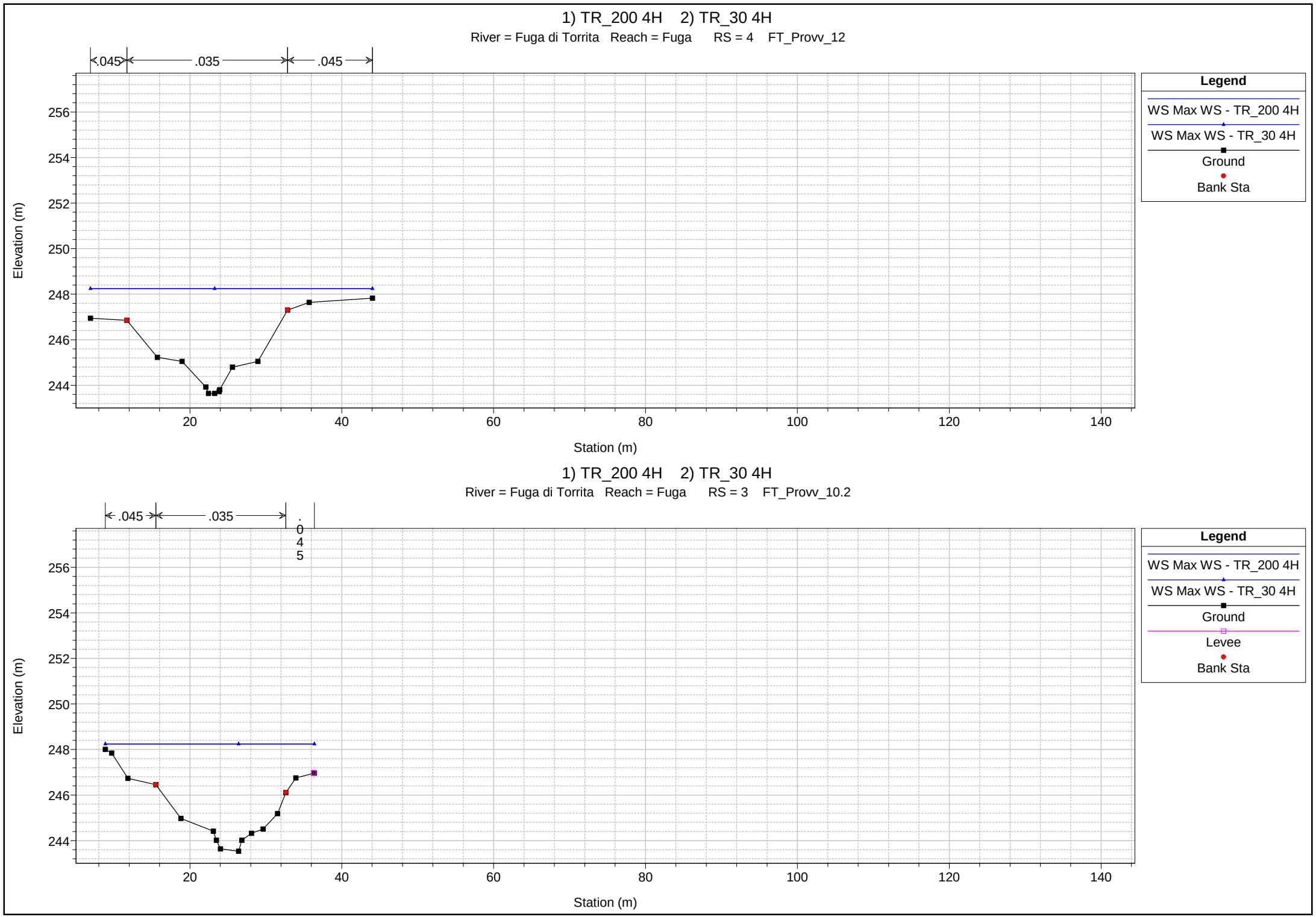
1 cm Horiz. = 6 m 1 cm Vert. = 2 m



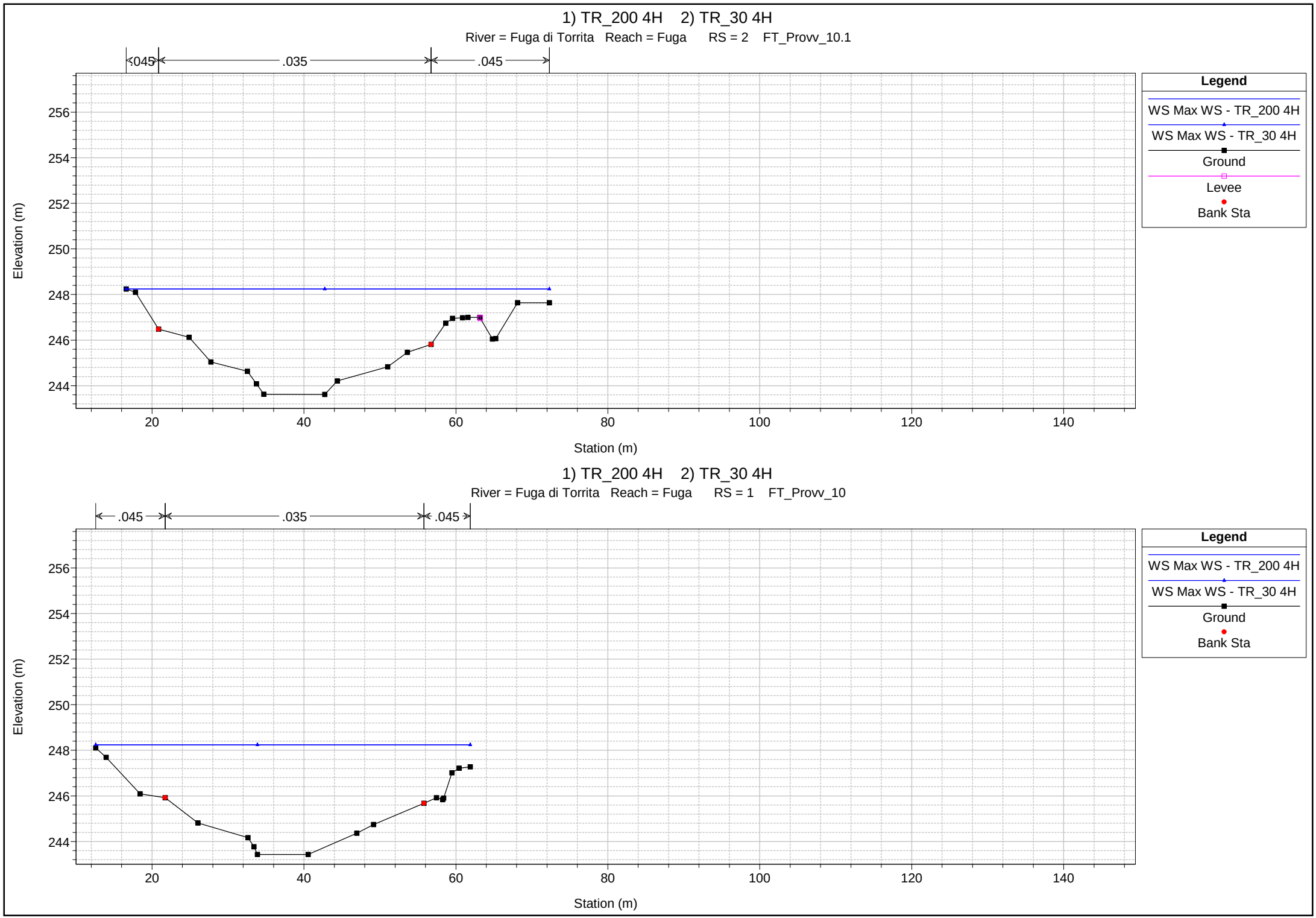
1 cm Horiz. = 6 m 1 cm Vert. = 2 m



1 cm Horiz. = 6 m 1 cm Vert. = 2 m



1 cm Horiz. = 6 m 1 cm Vert. = 2 m



1 cm Horiz. = 6 m 1 cm Vert. = 2 m

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	71	Max WS	TR_200 1H	3.40	250.88	252.27	251.60	252.29	0.000798	0.66	5.18	6.42	0.23
Fuga	71	Max WS	TR_200 2H	6.42	250.88	252.62	251.85	252.65	0.001000	0.85	7.57	7.49	0.27
Fuga	71	Max WS	TR_200 3H	8.46	250.88	252.75	251.98	252.80	0.001217	0.98	8.62	7.91	0.30
Fuga	71	Max WS	TR_200 4H	9.40	250.88	252.81	252.03	252.86	0.001303	1.04	9.07	8.44	0.31
Fuga	71	Max WS	TR_200 6H	9.30	250.88	252.80	252.02	252.85	0.001305	1.03	9.00	8.21	0.31
Fuga	71	Max WS	TR_200 8H	8.10	250.88	252.73	251.95	252.78	0.001184	0.96	8.44	7.83	0.30
Fuga	71	Max WS	TR_200 12H	6.40	250.88	252.59	251.85	252.63	0.001066	0.87	7.38	7.41	0.28
Fuga	71	Max WS	TR_30 1H	1.00	250.88	251.66	251.28	251.67	0.001103	0.53	1.87	4.12	0.25
Fuga	71	Max WS	TR_30 2H	1.90	250.88	251.94	251.43	251.96	0.000920	0.59	3.24	5.35	0.24
Fuga	71	Max WS	TR_30 3H	2.50	250.88	252.12	251.50	252.13	0.000764	0.59	4.22	5.94	0.22
Fuga	71	Max WS	TR_30 4H	3.10	250.88	252.22	251.57	252.24	0.000792	0.64	4.86	6.27	0.23
Fuga	71	Max WS	TR_30 6H	3.70	250.88	252.31	251.63	252.33	0.000843	0.69	5.40	6.53	0.24
Fuga	71	Max WS	TR_30 8H	3.90	250.88	252.32	251.65	252.34	0.000902	0.71	5.47	6.56	0.25
Fuga	71	Max WS	TR_30 12H	3.20	250.88	252.21	251.58	252.23	0.000880	0.67	4.79	6.23	0.24
Fuga	70.875	Max WS	TR_200 1H	3.40	250.86	252.26	251.57	252.28	0.000759	0.65	5.26	6.41	0.23
Fuga	70.875	Max WS	TR_200 2H	6.41	250.86	252.60	251.82	252.63	0.000979	0.84	7.61	7.46	0.27
Fuga	70.875	Max WS	TR_200 3H	8.39	250.86	252.73	251.94	252.78	0.001192	0.97	8.62	7.87	0.30
Fuga	70.875	Max WS	TR_200 4H	9.40	250.86	252.78	252.00	252.84	0.001300	1.04	9.06	8.91	0.31
Fuga	70.875	Max WS	TR_200 6H	9.30	250.86	252.77	251.99	252.83	0.001304	1.04	8.99	8.56	0.31
Fuga	70.875	Max WS	TR_200 8H	8.10	250.86	252.71	251.92	252.75	0.001177	0.96	8.44	7.80	0.29
Fuga	70.875	Max WS	TR_200 12H	6.40	250.86	252.57	251.82	252.61	0.001049	0.86	7.41	7.38	0.28
Fuga	70.875	Max WS	TR_30 1H	1.00	250.86	251.64	251.25	251.65	0.001026	0.52	1.92	4.15	0.24
Fuga	70.875	Max WS	TR_30 2H	1.90	250.86	251.93	251.40	251.94	0.000858	0.57	3.30	5.36	0.23
Fuga	70.875	Max WS	TR_30 3H	2.50	250.86	252.10	251.47	252.12	0.000714	0.58	4.30	5.93	0.22
Fuga	70.875	Max WS	TR_30 4H	3.08	250.86	252.21	251.54	252.23	0.000740	0.62	4.94	6.25	0.22
Fuga	70.875	Max WS	TR_30 6H	3.70	250.86	252.29	251.60	252.31	0.000805	0.68	5.47	6.51	0.24
Fuga	70.875	Max WS	TR_30 8H	3.90	250.86	252.30	251.62	252.33	0.000866	0.70	5.53	6.54	0.24
Fuga	70.875	Max WS	TR_30 12H	3.20	250.86	252.19	251.54	252.22	0.000838	0.66	4.85	6.21	0.24
Fuga	70	Max WS	TR_200 1H	3.40	250.70	252.17	251.34	252.19	0.000551	0.58	5.85	6.46	0.20
Fuga	70	Max WS	TR_200 2H	6.33	250.70	252.48	251.59	252.51	0.000804	0.80	7.98	7.69	0.24
Fuga	70	Max WS	TR_200 3H	8.14	250.70	252.58	251.71	252.62	0.000972	0.92	9.57	35.06	0.27
Fuga	70	Max WS	TR_200 4H	9.26	250.70	252.62	251.77	252.67	0.001091	1.00	10.97	39.51	0.29
Fuga	70	Max WS	TR_200 6H	9.28	250.70	252.60	251.78	252.66	0.001160	1.02	10.44	38.72	0.30
Fuga	70	Max WS	TR_200 8H	8.09	250.70	252.55	251.70	252.59	0.001072	0.95	8.66	18.59	0.28
Fuga	70	Max WS	TR_200 12H	6.40	250.70	252.44	251.59	252.47	0.000920	0.84	7.67	7.51	0.26
Fuga	70	Max WS	TR_30 1H	1.00	250.70	251.54	251.04	251.55	0.000520	0.41	2.42	4.38	0.18
Fuga	70	Max WS	TR_30 2H	1.90	250.70	251.84	251.17	251.85	0.000508	0.49	3.89	5.31	0.18
Fuga	70	Max WS	TR_30 3H	2.46	250.70	252.03	251.24	252.04	0.000447	0.50	4.96	5.95	0.17
Fuga	70	Max WS	TR_30 4H	3.03	250.70	252.13	251.30	252.14	0.000499	0.54	5.57	6.31	0.18
Fuga	70	Max WS	TR_30 6H	3.69	250.70	252.20	251.37	252.22	0.000601	0.61	6.02	6.55	0.20
Fuga	70	Max WS	TR_30 8H	3.90	250.70	252.20	251.39	252.22	0.000669	0.65	6.02	6.56	0.22
Fuga	70	Max WS	TR_30 12H	3.20	250.70	252.10	251.32	252.12	0.000608	0.59	5.38	6.20	0.20
Fuga	69.7	Max WS	TR_200 1H	3.70	250.69	252.14	251.31	252.16	0.000470	0.55	6.75	7.46	0.18
Fuga	69.7	Max WS	TR_200 2H	6.84	250.69	252.44	251.54	252.46	0.000651	0.74	10.08	22.11	0.22
Fuga	69.7	Max WS	TR_200 3H	8.79	250.69	252.54	251.65	252.57	0.000737	0.84	13.45	46.29	0.24
Fuga	69.7	Max WS	TR_200 4H	9.94	250.69	252.57	251.71	252.61	0.000803	0.89	15.13	49.36	0.25
Fuga	69.7	Max WS	TR_200 6H	9.85	250.69	252.56	251.71	252.59	0.000849	0.91	14.34	47.95	0.26
Fuga	69.7	Max WS	TR_200 8H	8.57	250.69	252.50	251.63	252.54	0.000807	0.86	11.96	38.30	0.25
Fuga	69.7	Max WS	TR_200 12H	6.78	250.69	252.39	251.53	252.42	0.000748	0.77	9.18	17.74	0.24
Fuga	69.7	Max WS	TR_30 1H	1.11	250.69	251.51	251.03	251.52	0.000484	0.40	2.78	5.12	0.17
Fuga	69.7	Max WS	TR_30 2H	2.07	250.69	251.81	251.15	251.82	0.000442	0.46	4.50	6.18	0.17
Fuga	69.7	Max WS	TR_30 3H	2.68	250.69	252.01	251.21	252.02	0.000378	0.47	5.77	6.93	0.16
Fuga	69.7	Max WS	TR_30 4H	3.31	250.69	252.10	251.28	252.12	0.000424	0.51	6.45	7.30	0.17
Fuga	69.7	Max WS	TR_30 6H	3.99	250.69	252.17	251.33	252.18	0.000509	0.57	6.94	7.55	0.19
Fuga	69.7	Max WS	TR_30 8H	4.16	250.69	252.17	251.35	252.18	0.000557	0.60	6.92	7.54	0.20
Fuga	69.7	Max WS	TR_30 12H	3.41	250.69	252.07	251.28	252.08	0.000499	0.55	6.21	7.17	0.19
Fuga	69.61			Lat Struct									
Fuga	69	Max WS	TR_200 1H	4.40	250.68	252.07	251.24	252.11	0.000563	0.82	5.38	24.02	0.23
Fuga	69	Max WS	TR_200 2H	8.06	250.68	252.33	251.49	252.41	0.001043	1.25	6.44	64.48	0.32
Fuga	69	Max WS	TR_200 3H	9.46	250.68	252.43	251.57	252.53	0.001174	1.38	6.84	83.15	0.34
Fuga	69	Max WS	TR_200 4H	10.02	250.68	252.46	251.60	252.57	0.001239	1.44	6.96	85.61	0.35
Fuga	69	Max WS	TR_200 6H	10.03	250.68	252.44	251.60	252.55	0.001297	1.46	6.87	83.88	0.36
Fuga	69	Max WS	TR_200 8H	9.31	250.68	252.39	251.56	252.49	0.001239	1.40	6.67	79.77	0.35
Fuga	69	Max WS	TR_200 12H	7.66	250.68	252.28	251.46	252.36	0.001047	1.23	6.23	37.16	0.32
Fuga	69	Max WS	TR_30 1H	1.37	250.68	251.44	250.97	251.46	0.000466	0.48	2.83	7.25	0.19
Fuga	69	Max WS	TR_30 2H	2.49	250.68	251.75	251.08	251.77	0.000454	0.61	4.08	9.34	0.19
Fuga	69	Max WS	TR_30 3H	3.19	250.68	251.95	251.14	251.97	0.000407	0.65	4.89	18.49	0.19
Fuga	69	Max WS	TR_30 4H	3.97	250.68	252.04	251.21	252.07	0.000499	0.76	5.25	22.49	0.21
Fuga	69	Max WS	TR_30 6H	4.69	250.68	252.09	251.26	252.13	0.000610	0.86	5.46	24.94	0.24
Fuga	69	Max WS	TR_30 8H	4.78	250.68	252.09	251.27	252.13	0.000641	0.88	5.44	24.68	0.24
Fuga	69	Max WS	TR_30 12H	3.89	250.68	252.00	251.20	252.03	0.000530	0.76	5.09	20.74	0.22
Fuga	68.5			Bridge									
Fuga	68	Max WS	TR_200 1H	4.40	250.59	252.07	251.26	252.10	0.000632	0.83	5.30	6.67	0.23
Fuga	68	Max WS	TR_200 2H	8.06	250.59	252.32	251.50	252.40	0.001177	1.27	6.33	7.35	0.33
Fuga	68	Max WS	TR_200 3H	9.46	250.59	252.42	251.58	252.52	0.001326	1.41	6.72	7.61	0.35
Fuga	68	Max WS	TR_200 4H	10.02	250.59	252.45	251.62	252.55	0.001401	1.46	6.84	7.69	0.36
Fuga	68	Max WS	TR_200 6H	10.03	250.59	252.42	251.62	252.54	0.001471	1.49	6.75	7.63	0.37
Fuga	68	Max WS	TR_200 8H	9.31	250.59	252.37	251.58	252.48	0.001404	1.42	6.55	7.50	0.36
Fuga	68	Max WS	TR_200 12H	7.66	250.59	252.27	251.48	252.35	0.001185	1.25	6.12	7.21	0.33

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	68	Max WS	TR_30 1H	1.37	250.59	251.44	250.98	251.45	0.000550	0.50	2.74	4.98	0.19
Fuga	68	Max WS	TR_30 2H	2.49	250.59	251.75	251.10	251.77	0.000518	0.62	4.00	5.80	0.20
Fuga	68	Max WS	TR_30 3H	3.19	250.59	251.95	251.16	251.97	0.000457	0.66	4.81	6.34	0.19
Fuga	68	Max WS	TR_30 4H	3.96	250.59	252.03	251.23	252.06	0.000560	0.77	5.17	6.58	0.22
Fuga	68	Max WS	TR_30 6H	4.69	250.59	252.09	251.28	252.12	0.000686	0.87	5.38	6.72	0.24
Fuga	68	Max WS	TR_30 8H	4.78	250.59	252.08	251.29	252.12	0.000722	0.89	5.35	6.70	0.25
Fuga	68	Max WS	TR_30 12H	3.89	250.59	252.00	251.21	252.03	0.000597	0.78	5.01	6.47	0.22
Fuga	67.5	Max WS	TR_200 1H	4.82	250.53	252.02	251.23	252.04	0.000707	0.70	6.89	7.00	0.23
Fuga	67.5	Max WS	TR_200 2H	8.80	250.53	252.24	251.48	252.30	0.001306	1.03	8.53	7.57	0.31
Fuga	67.5	Max WS	TR_200 3H	10.42	250.53	252.33	251.57	252.40	0.001476	1.13	9.22	7.81	0.33
Fuga	67.5	Max WS	TR_200 4H	11.01	250.53	252.36	251.60	252.43	0.001545	1.17	9.44	7.88	0.34
Fuga	67.5	Max WS	TR_200 6H	10.86	250.53	252.34	251.59	252.41	0.001576	1.17	9.28	7.82	0.34
Fuga	67.5	Max WS	TR_200 8H	10.01	250.53	252.29	251.55	252.36	0.001500	1.12	8.90	7.70	0.33
Fuga	67.5	Max WS	TR_200 12H	8.19	250.53	252.20	251.46	252.25	0.001274	1.00	8.17	7.45	0.31
Fuga	67.5	Max WS	TR_30 1H	1.53	250.53	251.38	250.93	251.40	0.000756	0.51	2.96	5.21	0.22
Fuga	67.5	Max WS	TR_30 2H	2.73	250.53	251.70	251.06	251.72	0.000634	0.57	4.78	6.19	0.21
Fuga	67.5	Max WS	TR_30 3H	3.52	250.53	251.91	251.13	251.93	0.000519	0.57	6.14	6.72	0.19
Fuga	67.5	Max WS	TR_30 4H	4.37	250.53	251.99	251.20	252.01	0.000632	0.65	6.69	6.93	0.21
Fuga	67.5	Max WS	TR_30 6H	5.12	250.53	252.04	251.26	252.06	0.000763	0.73	7.00	7.04	0.23
Fuga	67.5	Max WS	TR_30 8H	5.15	250.53	252.03	251.26	252.06	0.000787	0.74	6.95	7.02	0.24
Fuga	67.5	Max WS	TR_30 12H	4.18	250.53	251.95	251.19	251.97	0.000648	0.65	6.42	6.83	0.21
Fuga	67.42			Lat Struct									
Fuga	67.41			Lat Struct									
Fuga	67	Max WS	TR_200 1H	5.24	250.48	251.96	251.20	251.98	0.000746	0.73	7.22	7.21	0.23
Fuga	67	Max WS	TR_200 2H	9.54	250.48	252.11	251.44	252.17	0.001656	1.15	8.33	7.57	0.35
Fuga	67	Max WS	TR_200 3H	11.39	250.48	252.17	251.53	252.25	0.002037	1.30	8.78	7.72	0.39
Fuga	67	Max WS	TR_200 4H	12.01	250.48	252.18	251.55	252.28	0.002168	1.35	8.92	7.76	0.40
Fuga	67	Max WS	TR_200 6H	11.68	250.48	252.17	251.54	252.26	0.002136	1.33	8.79	7.72	0.40
Fuga	67	Max WS	TR_200 8H	10.70	250.48	252.14	251.50	252.22	0.001940	1.25	8.55	7.64	0.38
Fuga	67	Max WS	TR_200 12H	8.73	250.48	252.07	251.40	252.13	0.001513	1.08	8.07	7.49	0.33
Fuga	67	Max WS	TR_30 1H	1.68	250.48	251.31	250.89	251.33	0.000881	0.55	3.08	5.65	0.24
Fuga	67	Max WS	TR_30 2H	2.97	250.48	251.65	251.02	251.66	0.000640	0.58	5.10	6.45	0.21
Fuga	67	Max WS	TR_30 3H	3.85	250.48	251.87	251.10	251.88	0.000522	0.59	6.57	6.99	0.19
Fuga	67	Max WS	TR_30 4H	4.76	250.48	251.93	251.16	251.96	0.000653	0.67	7.06	7.16	0.22
Fuga	67	Max WS	TR_30 6H	5.55	250.48	251.97	251.21	252.00	0.000812	0.76	7.29	7.23	0.24
Fuga	67	Max WS	TR_30 8H	5.53	250.48	251.96	251.22	251.99	0.000820	0.76	7.24	7.22	0.24
Fuga	67	Max WS	TR_30 12H	4.47	250.48	251.90	251.14	251.92	0.000643	0.66	6.80	7.06	0.21
Fuga	66	Max WS	TR_200 1H	5.71	250.32	251.91	251.01	251.93	0.000514	0.63	9.20	13.31	0.20
Fuga	66	Max WS	TR_200 2H	10.21	250.32	251.98	251.26	252.03	0.001288	1.03	10.45	18.29	0.31
Fuga	66	Max WS	TR_200 3H	12.13	250.32	252.00	251.34	252.07	0.001704	1.20	10.80	18.29	0.36
Fuga	66	Max WS	TR_200 4H	12.71	250.32	252.00	251.36	252.08	0.001836	1.25	10.90	18.29	0.38
Fuga	66	Max WS	TR_200 6H	12.28	250.32	252.00	251.35	252.07	0.001754	1.22	10.77	18.29	0.37
Fuga	66	Max WS	TR_200 8H	11.26	250.32	251.99	251.30	252.05	0.001527	1.13	10.59	18.29	0.34
Fuga	66	Max WS	TR_200 12H	9.25	250.32	251.96	251.21	252.01	0.001114	0.95	10.17	18.29	0.29
Fuga	66	Max WS	TR_30 1H	1.86	250.32	251.26	250.71	251.27	0.000497	0.45	4.10	6.48	0.18
Fuga	66	Max WS	TR_30 2H	3.20	250.32	251.61	250.83	251.62	0.000396	0.48	6.59	7.81	0.17
Fuga	66	Max WS	TR_30 3H	4.21	250.32	251.83	250.91	251.84	0.000347	0.50	8.46	8.68	0.16
Fuga	66	Max WS	TR_30 4H	5.20	250.32	251.89	250.98	251.91	0.000445	0.58	9.02	11.72	0.18
Fuga	66	Max WS	TR_30 6H	6.03	250.32	251.91	251.03	251.93	0.000561	0.66	9.29	14.03	0.21
Fuga	66	Max WS	TR_30 8H	5.94	250.32	251.91	251.03	251.93	0.000556	0.65	9.21	13.38	0.21
Fuga	66	Max WS	TR_30 12H	4.80	250.32	251.86	250.96	251.87	0.000420	0.55	8.67	8.77	0.18
Fuga	65.92			Lat Struct									
Fuga	65	Max WS	TR_200 1H	5.35	250.20	251.87	250.96	251.88	0.000172	0.37	23.29	65.05	0.11
Fuga	65	Max WS	TR_200 2H	6.82	250.20	251.96	251.05	251.96	0.000171	0.39	28.98	70.66	0.12
Fuga	65	Max WS	TR_200 3H	7.62	250.20	251.98	251.10	251.98	0.000188	0.41	30.59	72.17	0.12
Fuga	65	Max WS	TR_200 4H	7.88	250.20	251.98	251.11	251.99	0.000196	0.42	30.92	72.48	0.12
Fuga	65	Max WS	TR_200 6H	7.78	250.20	251.97	251.10	251.98	0.000200	0.42	30.35	71.94	0.12
Fuga	65	Max WS	TR_200 8H	7.38	250.20	251.96	251.09	251.97	0.000192	0.41	29.46	71.11	0.12
Fuga	65	Max WS	TR_200 12H	6.60	250.20	251.94	251.04	251.94	0.000178	0.39	27.64	69.37	0.12
Fuga	65	Max WS	TR_30 1H	2.07	250.20	251.19	250.68	251.20	0.000748	0.54	3.85	6.39	0.22
Fuga	65	Max WS	TR_30 2H	3.52	250.20	251.55	250.82	251.57	0.000517	0.55	6.45	7.87	0.19
Fuga	65	Max WS	TR_30 3H	4.66	250.20	251.79	250.92	251.81	0.000399	0.54	9.08	15.71	0.17
Fuga	65	Max WS	TR_30 4H	5.16	250.20	251.85	250.95	251.86	0.000179	0.38	22.15	63.86	0.12
Fuga	65	Max WS	TR_30 6H	5.46	250.20	251.88	250.97	251.88	0.000172	0.37	23.77	65.53	0.11
Fuga	65	Max WS	TR_30 8H	5.54	250.20	251.87	250.97	251.87	0.000187	0.39	23.14	64.88	0.12
Fuga	65	Max WS	TR_30 12H	5.11	250.20	251.81	250.95	251.83	0.000446	0.58	9.42	16.56	0.18
Fuga	64.91			Lat Struct									
Fuga	64	Max WS	TR_200 1H	5.56	250.02	251.84	250.80	251.85	0.000401	0.57	9.79	11.05	0.17
Fuga	64	Max WS	TR_200 2H	5.71	250.02	251.93	250.81	251.94	0.000321	0.54	10.93	13.24	0.16
Fuga	64	Max WS	TR_200 3H	5.71	250.02	251.95	250.80	251.97	0.000298	0.52	11.27	13.49	0.15
Fuga	64	Max WS	TR_200 4H	5.77	250.02	251.96	250.81	251.97	0.000300	0.53	11.33	13.53	0.15
Fuga	64	Max WS	TR_200 6H	5.94	250.02	251.94	250.82	251.96	0.000328	0.55	11.18	13.43	0.16
Fuga	64	Max WS	TR_200 8H	5.97	250.02	251.93	250.82	251.95	0.000347	0.56	10.99	13.29	0.16
Fuga	64	Max WS	TR_200 12H	5.93	250.02	251.90	250.82	251.92	0.000373	0.57	10.61	13.01	0.17
Fuga	64	Max WS	TR_30 1H	2.25	250.02	251.12	250.51	251.13	0.000605	0.52	4.30	6.19	0.20
Fuga	64	Max WS	TR_30 2H	3.80	250.02	251.50	250.66	251.52	0.000467	0.54	6.97	7.72	0.18
Fuga	64	Max WS	TR_30 3H	5.04	250.02	251.76	250.75	251.77	0.000407	0.56	9.05	8.73	0.17

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	64	Max WS	TR_30 4H	5.46	250.02	251.82	250.79	251.84	0.000405	0.57	9.62	10.16	0.18
Fuga	64	Max WS	TR_30 6H	5.61	250.02	251.84	250.80	251.86	0.000401	0.57	9.87	11.44	0.17
Fuga	64	Max WS	TR_30 8H	5.71	250.02	251.83	250.81	251.85	0.000428	0.59	9.74	10.81	0.18
Fuga	64	Max WS	TR_30 12H	5.44	250.02	251.77	250.78	251.79	0.000453	0.59	9.21	8.80	0.18
Fuga	63.90			Lat Struct									
Fuga	63	Max WS	TR_200 1H	6.37	249.90	251.69	250.76	251.79	0.001061	1.35	4.71	8.62	0.32
Fuga	63	Max WS	TR_200 2H	6.92	249.90	251.79	250.81	251.88	0.001062	1.40	4.96	9.07	0.33
Fuga	63	Max WS	TR_200 3H	7.02	249.90	251.81	250.82	251.91	0.001036	1.39	5.03	9.22	0.32
Fuga	63	Max WS	TR_200 4H	7.05	249.90	251.82	250.82	251.92	0.001035	1.40	5.05	9.25	0.32
Fuga	63	Max WS	TR_200 6H	7.10	249.90	251.80	250.82	251.91	0.001082	1.42	5.00	9.16	0.33
Fuga	63	Max WS	TR_200 8H	7.06	249.90	251.79	250.82	251.89	0.001102	1.42	4.96	9.08	0.33
Fuga	63	Max WS	TR_200 12H	6.90	249.90	251.75	250.80	251.86	0.001113	1.41	4.87	8.92	0.33
Fuga	63	Max WS	TR_30 1H	2.55	249.90	251.00	250.38	251.04	0.000894	0.89	2.86	5.66	0.27
Fuga	63	Max WS	TR_30 2H	4.25	249.90	251.38	250.56	251.44	0.000899	1.09	3.89	7.08	0.29
Fuga	63	Max WS	TR_30 3H	5.67	249.90	251.63	250.70	251.71	0.000954	1.25	4.54	8.30	0.31
Fuga	63	Max WS	TR_30 4H	6.23	249.90	251.68	250.74	251.77	0.001042	1.33	4.68	8.55	0.32
Fuga	63	Max WS	TR_30 6H	6.43	249.90	251.70	250.76	251.79	0.001072	1.36	4.73	8.65	0.33
Fuga	63	Max WS	TR_30 8H	6.43	249.90	251.69	250.76	251.78	0.001099	1.37	4.69	8.58	0.33
Fuga	63	Max WS	TR_30 12H	6.00	249.90	251.63	250.72	251.72	0.001054	1.32	4.56	8.33	0.32
Fuga	62.5			Bridge									
Fuga	62	Max WS	TR_200 1H	6.37	249.66	251.67	250.61	251.75	0.000871	1.25	5.11	7.59	0.29
Fuga	62	Max WS	TR_200 2H	6.92	249.66	251.73	250.66	251.81	0.000938	1.32	5.25	7.80	0.30
Fuga	62	Max WS	TR_200 3H	7.02	249.66	251.75	250.66	251.84	0.000926	1.32	5.32	7.89	0.30
Fuga	62	Max WS	TR_200 4H	7.04	249.66	251.75	250.67	251.84	0.000924	1.32	5.33	7.91	0.30
Fuga	62	Max WS	TR_200 6H	7.10	249.66	251.74	250.67	251.83	0.000967	1.34	5.28	7.85	0.31
Fuga	62	Max WS	TR_200 8H	7.06	249.66	251.72	250.67	251.82	0.000978	1.35	5.25	7.79	0.31
Fuga	62	Max WS	TR_200 12H	6.90	249.66	251.70	250.65	251.79	0.000969	1.33	5.19	7.71	0.31
Fuga	62	Max WS	TR_30 1H	2.55	249.66	251.01	250.23	251.04	0.000588	0.77	3.32	5.59	0.22
Fuga	62	Max WS	TR_30 2H	4.25	249.66	251.40	250.41	251.44	0.000657	0.97	4.36	6.72	0.24
Fuga	62	Max WS	TR_30 3H	5.67	249.66	251.63	250.55	251.70	0.000743	1.13	4.99	7.43	0.27
Fuga	62	Max WS	TR_30 4H	6.23	249.66	251.66	250.60	251.74	0.000845	1.22	5.08	7.56	0.28
Fuga	62	Max WS	TR_30 6H	6.43	249.66	251.68	250.61	251.76	0.000883	1.26	5.12	7.60	0.29
Fuga	62	Max WS	TR_30 8H	6.43	249.66	251.67	250.61	251.75	0.000897	1.26	5.09	7.57	0.29
Fuga	62	Max WS	TR_30 12H	6.00	249.66	251.63	250.57	251.71	0.000825	1.20	5.01	7.45	0.28
Fuga	61	Max WS	TR_200 1H	7.15	249.68	251.65	250.51	251.67	0.000446	0.64	11.25	9.40	0.19
Fuga	61	Max WS	TR_200 2H	8.29	249.68	251.69	250.58	251.72	0.000542	0.71	11.68	11.00	0.21
Fuga	61	Max WS	TR_200 3H	8.81	249.68	251.71	250.61	251.74	0.000586	0.74	11.89	13.52	0.21
Fuga	61	Max WS	TR_200 4H	8.90	249.68	251.71	250.61	251.74	0.000593	0.75	11.93	13.92	0.22
Fuga	61	Max WS	TR_200 6H	8.63	249.68	251.70	250.59	251.73	0.000573	0.73	11.79	12.37	0.21
Fuga	61	Max WS	TR_200 8H	8.34	249.68	251.69	250.58	251.72	0.000550	0.72	11.67	10.87	0.21
Fuga	61	Max WS	TR_200 12H	7.89	249.68	251.68	250.55	251.70	0.000512	0.69	11.50	9.51	0.20
Fuga	61	Max WS	TR_30 1H	2.84	249.68	250.95	250.17	250.97	0.000445	0.50	5.64	6.74	0.18
Fuga	61	Max WS	TR_30 2H	4.71	249.68	251.36	250.34	251.38	0.000384	0.54	8.70	8.30	0.17
Fuga	61	Max WS	TR_30 3H	6.28	249.68	251.61	250.45	251.63	0.000377	0.58	10.88	9.25	0.17
Fuga	61	Max WS	TR_30 4H	6.97	249.68	251.64	250.50	251.66	0.000431	0.62	11.18	9.37	0.18
Fuga	61	Max WS	TR_30 6H	7.22	249.68	251.65	250.51	251.67	0.000453	0.64	11.27	9.41	0.19
Fuga	61	Max WS	TR_30 8H	7.12	249.68	251.64	250.51	251.67	0.000448	0.64	11.20	9.38	0.19
Fuga	61	Max WS	TR_30 12H	6.54	249.68	251.62	250.47	251.63	0.000403	0.60	10.93	9.27	0.18
Fuga	60.92			Lat Struct									
Fuga	60	Max WS	TR_200 1H	6.18	249.68	251.52	250.61	251.62	0.001143	1.39	4.45	7.31	0.34
Fuga	60	Max WS	TR_200 2H	6.01	249.68	251.59	250.60	251.67	0.000951	1.30	4.62	7.41	0.31
Fuga	60	Max WS	TR_200 3H	5.92	249.68	251.61	250.59	251.69	0.000879	1.26	4.69	7.49	0.30
Fuga	60	Max WS	TR_200 4H	5.89	249.68	251.62	250.59	251.70	0.000863	1.25	4.70	7.51	0.29
Fuga	60	Max WS	TR_200 6H	6.01	249.68	251.60	250.60	251.68	0.000929	1.29	4.65	7.45	0.30
Fuga	60	Max WS	TR_200 8H	6.06	249.68	251.58	250.60	251.67	0.000973	1.31	4.61	7.41	0.31
Fuga	60	Max WS	TR_200 12H	6.14	249.68	251.56	250.61	251.65	0.001048	1.35	4.55	7.37	0.32
Fuga	60	Max WS	TR_30 1H	3.06	249.68	250.81	250.30	250.88	0.001594	1.16	2.64	4.84	0.36
Fuga	60	Max WS	TR_30 2H	5.02	249.68	251.21	250.51	251.30	0.001448	1.37	3.66	5.99	0.37
Fuga	60	Max WS	TR_30 3H	6.14	249.68	251.47	250.62	251.57	0.001245	1.42	4.32	7.24	0.35
Fuga	60	Max WS	TR_30 4H	6.19	249.68	251.51	250.62	251.61	0.001171	1.40	4.42	7.30	0.34
Fuga	60	Max WS	TR_30 6H	6.18	249.68	251.52	250.61	251.62	0.001133	1.39	4.46	7.32	0.33
Fuga	60	Max WS	TR_30 8H	6.27	249.68	251.51	250.62	251.61	0.001200	1.42	4.42	7.30	0.34
Fuga	60	Max WS	TR_30 12H	6.29	249.68	251.47	250.63	251.58	0.001306	1.46	4.32	7.24	0.36
Fuga	59.9			Bridge									
Fuga	59	Max WS	TR_200 1H	6.18	249.62	251.41	250.55	251.51	0.001236	1.43	4.33	7.00	0.35
Fuga	59	Max WS	TR_200 2H	6.00	249.62	251.48	250.53	251.57	0.001024	1.33	4.50	7.17	0.32
Fuga	59	Max WS	TR_200 3H	5.92	249.62	251.50	250.52	251.59	0.000944	1.29	4.57	7.23	0.31
Fuga	59	Max WS	TR_200 4H	5.89	249.62	251.51	250.52	251.59	0.000926	1.28	4.59	7.25	0.30
Fuga	59	Max WS	TR_200 6H	6.01	249.62	251.49	250.53	251.58	0.001004	1.33	4.53	7.20	0.32
Fuga	59	Max WS	TR_200 8H	6.06	249.62	251.47	250.53	251.56	0.001055	1.35	4.49	7.16	0.32
Fuga	59	Max WS	TR_200 12H	6.14	249.62	251.44	250.54	251.54	0.001139	1.39	4.42	7.11	0.34
Fuga	59	Max WS	TR_30 1H	3.06	249.62	250.82	250.23	250.88	0.001247	1.08	2.83	5.25	0.33
Fuga	59	Max WS	TR_30 2H	5.02	249.62	251.21	250.43	251.30	0.001228	1.31	3.83	6.34	0.34
Fuga	59	Max WS	TR_30 3H	6.14	249.62	251.36	250.54	251.47	0.001333	1.46	4.22	6.86	0.36
Fuga	59	Max WS	TR_30 4H	6.19	249.62	251.40	250.54	251.50	0.001268	1.44	4.30	6.97	0.35
Fuga	59	Max WS	TR_30 6H	6.18	249.62	251.41	250.55	251.51	0.001228	1.42	4.34	7.01	0.35
Fuga	59	Max WS	TR_30 8H	6.27	249.62	251.39	250.55	251.50	0.001307	1.46	4.29	6.96	0.36

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	59	Max WS	TR_30 12H	6.29	249.62	251.36	250.56	251.47	0.001415	1.50	4.20	6.83	0.37
Fuga	58.92			Lat Struct									
Fuga	58	Max WS	TR_200 1H	6.98	249.46	251.40	250.22	251.42	0.000353	0.58	12.09	11.57	0.17
Fuga	58	Max WS	TR_200 2H	6.88	249.46	251.48	250.21	251.50	0.000276	0.54	13.14	14.61	0.15
Fuga	58	Max WS	TR_200 3H	6.50	249.46	251.52	250.19	251.54	0.000222	0.49	13.77	16.15	0.13
Fuga	58	Max WS	TR_200 4H	6.38	249.46	251.53	250.18	251.54	0.000209	0.48	13.90	16.44	0.13
Fuga	58	Max WS	TR_200 6H	6.78	249.46	251.50	250.21	251.51	0.000257	0.52	13.39	15.24	0.14
Fuga	58	Max WS	TR_200 8H	6.93	249.46	251.48	250.22	251.49	0.000285	0.55	13.05	14.35	0.15
Fuga	58	Max WS	TR_200 12H	7.04	249.46	251.44	250.22	251.46	0.000323	0.57	12.58	13.06	0.16
Fuga	58	Max WS	TR_30 1H	3.36	249.46	250.75	249.96	250.76	0.000472	0.53	6.35	7.36	0.18
Fuga	58	Max WS	TR_30 2H	5.50	249.46	251.19	250.13	251.20	0.000376	0.55	9.95	9.03	0.17
Fuga	58	Max WS	TR_30 3H	6.77	249.46	251.36	250.21	251.37	0.000372	0.59	11.59	10.84	0.17
Fuga	58	Max WS	TR_30 4H	6.95	249.46	251.39	250.22	251.41	0.000359	0.59	11.98	11.34	0.17
Fuga	58	Max WS	TR_30 6H	6.99	249.46	251.41	250.22	251.42	0.000351	0.58	12.13	11.71	0.17
Fuga	58	Max WS	TR_30 8H	6.98	249.46	251.39	250.22	251.41	0.000364	0.59	11.95	11.31	0.17
Fuga	58	Max WS	TR_30 12H	6.85	249.46	251.35	250.21	251.37	0.000384	0.60	11.54	10.77	0.17
Fuga	57	Max WS	TR_200 1H	7.48	249.48	251.35	250.25	251.38	0.000475	0.66	11.28	9.25	0.19
Fuga	57	Max WS	TR_200 2H	7.75	249.48	251.44	250.27	251.46	0.000425	0.64	12.07	9.53	0.18
Fuga	57	Max WS	TR_200 3H	7.63	249.48	251.48	250.26	251.50	0.000375	0.61	12.50	9.68	0.17
Fuga	57	Max WS	TR_200 4H	7.56	249.48	251.49	250.26	251.51	0.000361	0.60	12.59	9.71	0.17
Fuga	57	Max WS	TR_200 6H	7.75	249.48	251.46	250.26	251.48	0.000409	0.63	12.25	9.59	0.18
Fuga	57	Max WS	TR_200 8H	7.75	249.48	251.43	250.26	251.45	0.000432	0.65	12.00	9.51	0.18
Fuga	57	Max WS	TR_200 12H	7.67	249.48	251.39	250.26	251.42	0.000458	0.66	11.66	9.38	0.19
Fuga	57	Max WS	TR_30 1H	3.54	249.48	250.69	249.98	250.71	0.000631	0.60	5.89	7.00	0.21
Fuga	57	Max WS	TR_30 2H	5.78	249.48	251.14	250.15	251.16	0.000467	0.62	9.40	8.53	0.19
Fuga	57	Max WS	TR_30 3H	7.16	249.48	251.31	250.23	251.33	0.000482	0.66	10.87	9.09	0.19
Fuga	57	Max WS	TR_30 4H	7.42	249.48	251.34	250.25	251.37	0.000479	0.66	11.19	9.21	0.19
Fuga	57	Max WS	TR_30 6H	7.50	249.48	251.36	250.25	251.38	0.000474	0.66	11.32	9.26	0.19
Fuga	57	Max WS	TR_30 8H	7.42	249.48	251.34	250.25	251.36	0.000482	0.67	11.16	9.20	0.19
Fuga	57	Max WS	TR_30 12H	7.19	249.48	251.30	250.23	251.33	0.000492	0.66	10.82	9.08	0.19
Fuga	56	Max WS	TR_200 1H	8.10	249.29	251.28	250.22	251.31	0.000540	0.71	11.48	9.55	0.21
Fuga	56	Max WS	TR_200 2H	8.85	249.29	251.37	250.26	251.39	0.000537	0.72	12.28	9.84	0.21
Fuga	56	Max WS	TR_200 3H	9.05	249.29	251.41	250.27	251.44	0.000508	0.71	12.75	10.01	0.20
Fuga	56	Max WS	TR_200 4H	9.03	249.29	251.43	250.27	251.45	0.000494	0.70	12.86	10.05	0.20
Fuga	56	Max WS	TR_200 6H	8.97	249.29	251.39	250.27	251.41	0.000531	0.72	12.46	9.91	0.20
Fuga	56	Max WS	TR_200 8H	8.78	249.29	251.36	250.26	251.39	0.000536	0.72	12.21	9.82	0.21
Fuga	56	Max WS	TR_200 12H	8.47	249.29	251.32	250.24	251.35	0.000540	0.71	11.86	9.69	0.21
Fuga	56	Max WS	TR_30 1H	3.77	249.29	250.60	249.93	250.62	0.000765	0.65	5.77	7.10	0.23
Fuga	56	Max WS	TR_30 2H	6.14	249.29	251.08	250.10	251.10	0.000506	0.64	9.58	8.81	0.20
Fuga	56	Max WS	TR_30 3H	7.65	249.29	251.24	250.19	251.27	0.000531	0.69	11.07	9.39	0.20
Fuga	56	Max WS	TR_30 4H	8.01	249.29	251.27	250.22	251.30	0.000539	0.70	11.38	9.51	0.21
Fuga	56	Max WS	TR_30 6H	8.14	249.29	251.29	250.22	251.31	0.000540	0.71	11.51	9.56	0.21
Fuga	56	Max WS	TR_30 8H	7.98	249.29	251.27	250.22	251.30	0.000539	0.70	11.36	9.50	0.21
Fuga	56	Max WS	TR_30 12H	7.62	249.29	251.24	250.19	251.26	0.000534	0.69	11.02	9.37	0.20
Fuga	55.8333	Max WS	TR_200 1H	8.20	249.29	251.27	250.21	251.30	0.000527	0.70	11.72	9.72	0.20
Fuga	55.8333	Max WS	TR_200 2H	9.02	249.29	251.36	250.25	251.38	0.000533	0.72	12.52	10.01	0.21
Fuga	55.8333	Max WS	TR_200 3H	9.28	249.29	251.40	250.27	251.43	0.000509	0.71	13.00	10.18	0.20
Fuga	55.8333	Max WS	TR_200 4H	9.26	249.29	251.41	250.26	251.44	0.000497	0.71	13.11	10.22	0.20
Fuga	55.8333	Max WS	TR_200 6H	9.17	249.29	251.37	250.26	251.40	0.000529	0.72	12.71	10.08	0.21
Fuga	55.8333	Max WS	TR_200 8H	8.94	249.29	251.35	250.25	251.38	0.000531	0.72	12.46	9.99	0.21
Fuga	55.8333	Max WS	TR_200 12H	8.60	249.29	251.31	250.23	251.34	0.000530	0.71	12.10	9.86	0.20
Fuga	55.8333	Max WS	TR_30 1H	3.81	249.29	250.58	249.92	250.61	0.000753	0.65	5.86	7.23	0.23
Fuga	55.8333	Max WS	TR_30 2H	6.19	249.29	251.07	250.09	251.09	0.000489	0.63	9.79	8.98	0.19
Fuga	55.8333	Max WS	TR_30 3H	7.73	249.29	251.23	250.18	251.26	0.000516	0.68	11.31	9.57	0.20
Fuga	55.8333	Max WS	TR_30 4H	8.10	249.29	251.26	250.20	251.29	0.000526	0.70	11.62	9.68	0.20
Fuga	55.8333	Max WS	TR_30 6H	8.24	249.29	251.28	250.21	251.30	0.000527	0.70	11.75	9.73	0.20
Fuga	55.8333	Max WS	TR_30 8H	8.07	249.29	251.26	250.20	251.29	0.000525	0.70	11.60	9.67	0.20
Fuga	55.8333	Max WS	TR_30 12H	7.69	249.29	251.23	250.18	251.25	0.000518	0.68	11.25	9.54	0.20
Fuga	55.81			Lat Struct									
Fuga	55	Max WS	TR_200 1H	8.69	249.27	251.23	250.14	251.25	0.000467	0.67	12.97	10.60	0.19
Fuga	55	Max WS	TR_200 2H	9.88	249.27	251.30	250.19	251.33	0.000512	0.72	13.78	10.89	0.20
Fuga	55	Max WS	TR_200 3H	10.39	249.27	251.35	250.21	251.38	0.000513	0.73	14.28	11.06	0.20
Fuga	55	Max WS	TR_200 4H	10.42	249.27	251.36	250.22	251.39	0.000504	0.72	14.41	11.11	0.20
Fuga	55	Max WS	TR_200 6H	10.12	249.27	251.32	250.20	251.35	0.000518	0.72	13.97	10.96	0.20
Fuga	55	Max WS	TR_200 8H	9.75	249.27	251.30	250.19	251.32	0.000504	0.71	13.72	10.87	0.20
Fuga	55	Max WS	TR_200 12H	9.22	249.27	251.27	250.16	251.29	0.000484	0.69	13.37	10.75	0.20
Fuga	55	Max WS	TR_30 1H	3.99	249.27	250.52	249.85	250.54	0.000688	0.62	6.39	7.91	0.22
Fuga	55	Max WS	TR_30 2H	6.47	249.27	251.03	250.01	251.05	0.000413	0.59	10.93	9.85	0.18
Fuga	55	Max WS	TR_30 3H	8.11	249.27	251.19	250.10	251.21	0.000444	0.65	12.55	10.45	0.19
Fuga	55	Max WS	TR_30 4H	8.56	249.27	251.22	250.13	251.24	0.000462	0.66	12.87	10.57	0.19
Fuga	55	Max WS	TR_30 6H	8.73	249.27	251.23	250.14	251.26	0.000468	0.67	13.01	10.62	0.19
Fuga	55	Max WS	TR_30 8H	8.51	249.27	251.22	250.12	251.24	0.000459	0.66	12.85	10.56	0.19
Fuga	55	Max WS	TR_30 12H	8.03	249.27	251.18	250.09	251.20	0.000441	0.64	12.49	10.43	0.19
Fuga	54	Max WS	TR_200 1H	8.69	249.22	251.06	250.25	251.19	0.001529	1.57	5.55	10.10	0.38
Fuga	54	Max WS	TR_200 2H	9.87	249.22	251.11	250.33	251.26	0.001794	1.73	5.71	10.22	0.42
Fuga	54	Max WS	TR_200 3H	10.39	249.22	251.15	250.37	251.31	0.001845	1.78	5.84	10.32	0.42
Fuga	54	Max WS	TR_200 4H	10.42	249.22	251.17	250.37	251.33	0.001797	1.77	5.90	10.36	0.42
Fuga	54	Max WS	TR_200 6H	10.12	249.22	251.12	250.35	251.28	0.001846	1.76	5.75	10.25	0.42

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	54	Max WS	TR_200 8H	9.75	249.22	251.11	250.33	251.26	0.001757	1.71	5.70	10.21	0.41
Fuga	54	Max WS	TR_200 12H	9.22	249.22	251.09	250.29	251.23	0.001635	1.64	5.64	10.16	0.40
Fuga	54	Max WS	TR_30 1H	3.98	249.22	250.35	249.89	250.43	0.001944	1.23	3.23	5.67	0.39
Fuga	54	Max WS	TR_30 2H	6.44	249.22	250.90	250.09	250.98	0.001171	1.28	5.02	9.40	0.33
Fuga	54	Max WS	TR_30 3H	8.10	249.22	251.04	250.21	251.15	0.001402	1.48	5.46	10.03	0.36
Fuga	54	Max WS	TR_30 4H	8.55	249.22	251.06	250.24	251.18	0.001498	1.55	5.53	10.08	0.38
Fuga	54	Max WS	TR_30 6H	8.73	249.22	251.07	250.26	251.19	0.001534	1.57	5.56	10.10	0.38
Fuga	54	Max WS	TR_30 8H	8.50	249.22	251.06	250.24	251.18	0.001484	1.54	5.53	10.08	0.38
Fuga	54	Max WS	TR_30 12H	8.03	249.22	251.03	250.21	251.14	0.001387	1.47	5.45	10.02	0.36
Fuga	53.5			Bridge									
Fuga	53	Max WS	TR_200 1H	8.69	249.02	251.06	250.02	251.15	0.000982	1.39	6.24	8.85	0.32
Fuga	53	Max WS	TR_200 2H	9.86	249.02	251.09	250.09	251.22	0.001184	1.55	6.37	8.99	0.35
Fuga	53	Max WS	TR_200 3H	10.38	249.02	251.11	250.13	251.24	0.001277	1.62	6.42	9.05	0.36
Fuga	53	Max WS	TR_200 4H	10.42	249.02	251.11	250.14	251.25	0.001278	1.62	6.43	9.06	0.37
Fuga	53	Max WS	TR_200 6H	10.12	249.02	251.10	250.11	251.23	0.001228	1.58	6.40	9.02	0.36
Fuga	53	Max WS	TR_200 8H	9.75	249.02	251.09	250.09	251.21	0.001158	1.53	6.36	8.99	0.35
Fuga	53	Max WS	TR_200 12H	9.22	249.02	251.08	250.05	251.19	0.001064	1.46	6.31	8.93	0.33
Fuga	53	Max WS	TR_30 1H	3.98	249.02	250.37	249.65	250.42	0.000867	0.98	4.06	6.47	0.28
Fuga	53	Max WS	TR_30 2H	6.45	249.02	250.91	249.85	250.97	0.000705	1.12	5.76	8.33	0.27
Fuga	53	Max WS	TR_30 3H	8.10	249.02	251.03	249.97	251.12	0.000888	1.31	6.17	8.77	0.30
Fuga	53	Max WS	TR_30 4H	8.55	249.02	251.05	250.00	251.15	0.000959	1.37	6.22	8.83	0.31
Fuga	53	Max WS	TR_30 6H	8.73	249.02	251.06	250.02	251.16	0.000987	1.40	6.25	8.86	0.32
Fuga	53	Max WS	TR_30 8H	8.50	249.02	251.05	250.00	251.15	0.000949	1.37	6.22	8.83	0.31
Fuga	53	Max WS	TR_30 12H	8.03	249.02	251.03	249.97	251.12	0.000878	1.30	6.16	8.76	0.30
Fuga	52	Max WS	TR_200 1H	8.69	248.91	251.05	249.85	251.07	0.000420	0.66	13.18	10.00	0.18
Fuga	52	Max WS	TR_200 2H	9.86	248.91	251.09	249.90	251.12	0.000496	0.72	13.61	10.14	0.20
Fuga	52	Max WS	TR_200 3H	10.38	248.91	251.11	249.93	251.14	0.000531	0.75	13.79	10.20	0.21
Fuga	52	Max WS	TR_200 4H	10.42	248.91	251.11	249.93	251.14	0.000532	0.75	13.82	10.21	0.21
Fuga	52	Max WS	TR_200 6H	10.12	248.91	251.10	249.92	251.13	0.000512	0.74	13.72	10.17	0.20
Fuga	52	Max WS	TR_200 8H	9.75	248.91	251.09	249.90	251.12	0.000486	0.72	13.60	10.14	0.20
Fuga	52	Max WS	TR_200 12H	9.22	248.91	251.07	249.87	251.10	0.000451	0.69	13.42	10.08	0.19
Fuga	52	Max WS	TR_30 1H	3.98	248.91	250.31	249.55	250.33	0.000558	0.59	6.72	7.52	0.20
Fuga	52	Max WS	TR_30 2H	6.45	248.91	250.89	249.72	250.91	0.000324	0.55	11.65	9.47	0.16
Fuga	52	Max WS	TR_30 3H	8.10	248.91	251.03	249.81	251.05	0.000384	0.63	12.94	9.91	0.17
Fuga	52	Max WS	TR_30 4H	8.55	248.91	251.04	249.84	251.07	0.000412	0.65	13.12	9.98	0.18
Fuga	52	Max WS	TR_30 6H	8.73	248.91	251.05	249.85	251.07	0.000422	0.66	13.21	10.01	0.18
Fuga	52	Max WS	TR_30 8H	8.50	248.91	251.04	249.84	251.07	0.000407	0.65	13.12	9.98	0.18
Fuga	52	Max WS	TR_30 12H	8.03	248.91	251.02	249.81	251.04	0.000380	0.62	12.90	9.90	0.17
Fuga	51.92			Lat Struct									
Fuga	51	Max WS	TR_200 1H	7.91	248.85	251.02	249.75	251.03	0.000317	0.58	13.74	10.33	0.16
Fuga	51	Max WS	TR_200 2H	8.26	248.85	251.06	249.77	251.08	0.000314	0.58	14.20	10.42	0.16
Fuga	51	Max WS	TR_200 3H	8.41	248.85	251.08	249.78	251.10	0.000314	0.58	14.39	10.45	0.16
Fuga	51	Max WS	TR_200 4H	8.40	248.85	251.08	249.78	251.10	0.000311	0.58	14.43	10.46	0.16
Fuga	51	Max WS	TR_200 6H	8.31	248.85	251.07	249.78	251.09	0.000311	0.58	14.32	10.44	0.16
Fuga	51	Max WS	TR_200 8H	8.18	248.85	251.06	249.77	251.08	0.000309	0.58	14.20	10.42	0.16
Fuga	51	Max WS	TR_200 12H	7.99	248.85	251.04	249.75	251.06	0.000306	0.57	14.01	10.38	0.16
Fuga	51	Max WS	TR_30 1H	4.14	248.85	250.25	249.52	250.27	0.000613	0.61	6.73	7.73	0.21
Fuga	51	Max WS	TR_30 2H	6.70	248.85	250.86	249.68	250.87	0.000323	0.55	12.13	9.98	0.16
Fuga	51	Max WS	TR_30 3H	7.70	248.85	250.99	249.74	251.01	0.000317	0.57	13.49	10.28	0.16
Fuga	51	Max WS	TR_30 4H	7.87	248.85	251.01	249.75	251.03	0.000317	0.58	13.68	10.32	0.16
Fuga	51	Max WS	TR_30 6H	7.92	248.85	251.02	249.75	251.04	0.000315	0.57	13.78	10.34	0.16
Fuga	51	Max WS	TR_30 8H	7.82	248.85	251.01	249.75	251.03	0.000313	0.57	13.69	10.32	0.16
Fuga	51	Max WS	TR_30 12H	7.66	248.85	250.99	249.74	251.00	0.000316	0.57	13.45	10.28	0.16
Fuga	50.72			Lat Struct									
Fuga	50	Max WS	TR_200 1H	7.57	248.83	251.00	249.73	251.02	0.000326	0.55	13.82	11.65	0.16
Fuga	50	Max WS	TR_200 2H	7.45	248.83	251.05	249.73	251.06	0.000283	0.52	14.41	11.91	0.15
Fuga	50	Max WS	TR_200 3H	7.38	248.83	251.07	249.72	251.08	0.000266	0.50	14.65	12.02	0.15
Fuga	50	Max WS	TR_200 4H	7.34	248.83	251.08	249.72	251.09	0.000261	0.50	14.70	12.04	0.14
Fuga	50	Max WS	TR_200 6H	7.38	248.83	251.06	249.72	251.08	0.000271	0.51	14.56	11.98	0.15
Fuga	50	Max WS	TR_200 8H	7.40	248.83	251.05	249.72	251.06	0.000280	0.51	14.40	11.91	0.15
Fuga	50	Max WS	TR_200 12H	7.40	248.83	251.03	249.72	251.04	0.000292	0.52	14.17	11.81	0.15
Fuga	50	Max WS	TR_30 1H	4.22	248.83	250.20	249.51	250.22	0.000832	0.69	6.16	7.49	0.24
Fuga	50	Max WS	TR_30 2H	6.84	248.83	250.83	249.69	250.85	0.000390	0.57	11.96	10.79	0.17
Fuga	50	Max WS	TR_30 3H	7.55	248.83	250.97	249.73	250.99	0.000345	0.56	13.50	11.51	0.16
Fuga	50	Max WS	TR_30 4H	7.58	248.83	250.99	249.74	251.01	0.000332	0.55	13.74	11.62	0.16
Fuga	50	Max WS	TR_30 6H	7.55	248.83	251.00	249.73	251.02	0.000322	0.54	13.86	11.67	0.16
Fuga	50	Max WS	TR_30 8H	7.52	248.83	250.99	249.73	251.01	0.000327	0.55	13.75	11.62	0.16
Fuga	50	Max WS	TR_30 12H	7.52	248.83	250.97	249.73	250.99	0.000345	0.56	13.46	11.49	0.16
Fuga	49.9			Bridge									
Fuga	49	Max WS	TR_200 1H	7.52	248.60	250.70	249.48	250.73	0.000696	0.77	9.81	7.08	0.21
Fuga	49	Max WS	TR_200 2H	7.42	248.60	250.76	249.48	250.78	0.000604	0.72	10.24	7.21	0.19
Fuga	49	Max WS	TR_200 3H	7.38	248.60	250.78	249.48	250.81	0.000572	0.71	10.41	7.27	0.19
Fuga	49	Max WS	TR_200 4H	7.34	248.60	250.79	249.48	250.81	0.000559	0.70	10.46	7.28	0.19
Fuga	49	Max WS	TR_200 6H	7.38	248.60	250.77	249.48	250.80	0.000581	0.71	10.35	7.25	0.19
Fuga	49	Max WS	TR_200 8H	7.40	248.60	250.76	249.48	250.78	0.000599	0.72	10.25	7.21	0.19
Fuga	49	Max WS	TR_200 12H	7.40	248.60	250.74	249.48	250.76	0.000621	0.73	10.11	7.17	0.20
Fuga	49	Max WS	TR_30 1H	4.22	248.60	250.16	249.23	250.19	0.000694	0.66	6.37	5.87	0.20

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	49	Max WS	TR_30 2H	6.83	248.60	250.59	249.44	250.62	0.000707	0.75	9.07	6.83	0.21
Fuga	49	Max WS	TR_30 3H	7.52	248.60	250.67	249.49	250.70	0.000732	0.78	9.63	7.02	0.21
Fuga	49	Max WS	TR_30 4H	7.54	248.60	250.69	249.49	250.72	0.000709	0.77	9.76	7.06	0.21
Fuga	49	Max WS	TR_30 6H	7.53	248.60	250.70	249.49	250.73	0.000692	0.77	9.84	7.09	0.21
Fuga	49	Max WS	TR_30 8H	7.52	248.60	250.69	249.49	250.72	0.000699	0.77	9.79	7.07	0.21
Fuga	49	Max WS	TR_30 12H	7.52	248.60	250.67	249.49	250.70	0.000734	0.78	9.61	7.01	0.21
Fuga	48	Max WS	TR_200 1H	7.93	248.51	250.66	249.39	250.68	0.000363	0.62	12.80	9.38	0.17
Fuga	48	Max WS	TR_200 2H	8.13	248.51	250.72	249.40	250.74	0.000338	0.61	13.37	9.56	0.16
Fuga	48	Max WS	TR_200 3H	8.31	248.51	250.74	249.41	250.76	0.000338	0.61	13.59	9.63	0.16
Fuga	48	Max WS	TR_200 4H	8.34	248.51	250.75	249.41	250.77	0.000337	0.61	13.65	9.65	0.16
Fuga	48	Max WS	TR_200 6H	8.23	248.51	250.73	249.40	250.75	0.000337	0.61	13.51	9.60	0.16
Fuga	48	Max WS	TR_200 8H	8.12	248.51	250.72	249.40	250.74	0.000337	0.61	13.38	9.56	0.16
Fuga	48	Max WS	TR_200 12H	7.96	248.51	250.70	249.39	250.72	0.000335	0.60	13.21	9.51	0.16
Fuga	48	Max WS	TR_30 1H	4.37	248.51	250.12	249.17	250.14	0.000370	0.53	8.21	7.79	0.17
Fuga	48	Max WS	TR_30 2H	7.07	248.51	250.55	249.34	250.57	0.000358	0.60	11.82	9.07	0.17
Fuga	48	Max WS	TR_30 3H	7.84	248.51	250.63	249.39	250.65	0.000374	0.63	12.55	9.30	0.17
Fuga	48	Max WS	TR_30 4H	7.92	248.51	250.65	249.39	250.67	0.000368	0.62	12.72	9.36	0.17
Fuga	48	Max WS	TR_30 6H	7.95	248.51	250.66	249.39	250.68	0.000362	0.62	12.83	9.39	0.17
Fuga	48	Max WS	TR_30 8H	7.90	248.51	250.65	249.39	250.67	0.000363	0.62	12.77	9.37	0.17
Fuga	48	Max WS	TR_30 12H	7.82	248.51	250.63	249.39	250.65	0.000374	0.62	12.53	9.29	0.17
Fuga	47.5	Max WS	TR_200 1H	8.16	248.43	250.63	249.32	250.65	0.000363	0.62	13.10	9.51	0.17
Fuga	47.5	Max WS	TR_200 2H	8.53	248.43	250.69	249.34	250.71	0.000353	0.62	13.68	9.70	0.17
Fuga	47.5	Max WS	TR_200 3H	8.84	248.43	250.72	249.35	250.74	0.000364	0.64	13.89	9.76	0.17
Fuga	47.5	Max WS	TR_200 4H	8.92	248.43	250.72	249.36	250.74	0.000367	0.64	13.94	9.78	0.17
Fuga	47.5	Max WS	TR_200 6H	8.72	248.43	250.71	249.34	250.73	0.000359	0.63	13.82	9.74	0.17
Fuga	47.5	Max WS	TR_200 8H	8.54	248.43	250.70	249.34	250.72	0.000353	0.62	13.69	9.70	0.17
Fuga	47.5	Max WS	TR_200 12H	8.28	248.43	250.68	249.32	250.70	0.000343	0.61	13.53	9.65	0.17
Fuga	47.5	Max WS	TR_30 1H	4.45	248.43	250.10	249.07	250.12	0.000348	0.52	8.49	7.82	0.16
Fuga	47.5	Max WS	TR_30 2H	7.21	248.43	250.53	249.26	250.55	0.000349	0.59	12.13	9.17	0.17
Fuga	47.5	Max WS	TR_30 3H	8.02	248.43	250.61	249.31	250.63	0.000370	0.62	12.85	9.42	0.17
Fuga	47.5	Max WS	TR_30 4H	8.14	248.43	250.63	249.31	250.65	0.000366	0.62	13.03	9.48	0.17
Fuga	47.5	Max WS	TR_30 6H	8.19	248.43	250.64	249.32	250.66	0.000363	0.62	13.14	9.52	0.17
Fuga	47.5	Max WS	TR_30 8H	8.13	248.43	250.63	249.31	250.65	0.000362	0.62	13.08	9.50	0.17
Fuga	47.5	Max WS	TR_30 12H	8.00	248.43	250.61	249.31	250.63	0.000369	0.62	12.83	9.41	0.17
Fuga	47.42			Lat Struct									
Fuga	47	Max WS	TR_200 1H	7.81	248.36	250.62	249.21	250.64	0.000231	0.51	19.48	36.43	0.14
Fuga	47	Max WS	TR_200 2H	7.63	248.36	250.69	249.19	250.70	0.000176	0.46	21.83	36.54	0.12
Fuga	47	Max WS	TR_200 3H	7.72	248.36	250.71	249.20	250.72	0.000167	0.45	22.66	36.58	0.12
Fuga	47	Max WS	TR_200 4H	7.73	248.36	250.72	249.20	250.73	0.000164	0.45	22.88	36.59	0.12
Fuga	47	Max WS	TR_200 6H	7.68	248.36	250.70	249.19	250.71	0.000170	0.45	22.38	36.57	0.12
Fuga	47	Max WS	TR_200 8H	7.62	248.36	250.69	249.19	250.70	0.000175	0.46	21.89	36.54	0.12
Fuga	47	Max WS	TR_200 12H	7.51	248.36	250.67	249.19	250.68	0.000180	0.46	21.24	36.51	0.12
Fuga	47	Max WS	TR_30 1H	4.54	248.36	250.08	248.98	250.10	0.000330	0.52	8.80	7.90	0.16
Fuga	47	Max WS	TR_30 2H	7.31	248.36	250.51	249.17	250.53	0.000297	0.56	15.45	36.23	0.15
Fuga	47	Max WS	TR_30 3H	7.85	248.36	250.59	249.21	250.61	0.000258	0.54	18.42	36.38	0.14
Fuga	47	Max WS	TR_30 4H	7.85	248.36	250.61	249.20	250.63	0.000241	0.52	19.15	36.41	0.14
Fuga	47	Max WS	TR_30 6H	7.82	248.36	250.63	249.20	250.64	0.000228	0.51	19.63	36.43	0.14
Fuga	47	Max WS	TR_30 8H	7.80	248.36	250.62	249.20	250.63	0.000233	0.52	19.35	36.42	0.14
Fuga	47	Max WS	TR_30 12H	7.83	248.36	250.59	249.21	250.61	0.000259	0.54	18.34	36.37	0.14
Fuga	46	Max WS	TR_200 1H	7.12	248.37	250.60	249.15	250.61	0.000250	0.52	13.57	9.58	0.14
Fuga	46	Max WS	TR_200 2H	5.73	248.37	250.68	249.06	250.69	0.000140	0.40	14.34	9.83	0.11
Fuga	46	Max WS	TR_200 3H	5.31	248.37	250.70	249.03	250.71	0.000115	0.36	14.60	9.91	0.10
Fuga	46	Max WS	TR_200 4H	5.18	248.37	250.71	249.02	250.72	0.000108	0.35	14.67	9.94	0.09
Fuga	46	Max WS	TR_200 6H	5.45	248.37	250.70	249.04	250.70	0.000123	0.38	14.51	9.89	0.10
Fuga	46	Max WS	TR_200 8H	5.68	248.37	250.68	249.05	250.69	0.000137	0.40	14.36	9.84	0.10
Fuga	46	Max WS	TR_200 12H	5.92	248.37	250.66	249.07	250.67	0.000154	0.42	14.16	9.77	0.11
Fuga	46	Max WS	TR_30 1H	4.67	248.37	250.05	248.99	250.06	0.000348	0.53	8.77	7.81	0.16
Fuga	46	Max WS	TR_30 2H	7.48	248.37	250.47	249.17	250.49	0.000351	0.60	12.40	9.18	0.17
Fuga	46	Max WS	TR_30 3H	7.50	248.37	250.56	249.17	250.58	0.000297	0.57	13.24	9.46	0.15
Fuga	46	Max WS	TR_30 4H	7.27	248.37	250.59	249.16	250.60	0.000266	0.54	13.47	9.54	0.15
Fuga	46	Max WS	TR_30 6H	7.07	248.37	250.60	249.14	250.62	0.000244	0.52	13.62	9.59	0.14
Fuga	46	Max WS	TR_30 8H	7.14	248.37	250.60	249.15	250.61	0.000253	0.53	13.53	9.56	0.14
Fuga	46	Max WS	TR_30 12H	7.49	248.37	250.56	249.17	250.58	0.000297	0.57	13.22	9.46	0.15
Fuga	45	Max WS	TR_200 1H	7.34	248.37	250.50	249.33	250.59	0.000808	1.33	5.51	6.46	0.29
Fuga	45	Max WS	TR_200 2H	6.14	248.37	250.62	249.22	250.67	0.000474	1.06	5.81	6.72	0.23
Fuga	45	Max WS	TR_200 3H	5.86	248.37	250.65	249.19	250.70	0.000412	1.00	5.89	6.79	0.21
Fuga	45	Max WS	TR_200 4H	5.77	248.37	250.66	249.19	250.71	0.000394	0.98	5.91	6.81	0.21
Fuga	45	Max WS	TR_200 6H	5.95	248.37	250.64	249.20	250.69	0.000431	1.02	5.86	6.77	0.22
Fuga	45	Max WS	TR_200 8H	6.11	248.37	250.62	249.22	250.68	0.000468	1.05	5.81	6.73	0.22
Fuga	45	Max WS	TR_200 12H	6.25	248.37	250.60	249.23	250.66	0.000507	1.09	5.75	6.67	0.23
Fuga	45	Max WS	TR_30 1H	4.76	248.37	249.96	249.09	250.03	0.000914	1.16	4.09	5.24	0.30
Fuga	45	Max WS	TR_30 2H	7.61	248.37	250.35	249.35	250.47	0.001113	1.49	5.11	6.12	0.34
Fuga	45	Max WS	TR_30 3H	7.67	248.37	250.45	249.35	250.56	0.000957	1.43	5.38	6.35	0.32
Fuga	45	Max WS	TR_30 4H	7.46	248.37	250.49	249.34	250.58	0.000857	1.37	5.46	6.43	0.30
Fuga	45	Max WS	TR_30 6H	7.29	248.37	250.51	249.32	250.60	0.000788	1.32	5.52	6.48	0.29
Fuga	45	Max WS	TR_30 8H	7.36	248.37	250.50	249.32	250.59	0.000819	1.34	5.49	6.45	0.29
Fuga	45	Max WS	TR_30 12H	7.67	248.37	250.45	249.35	250.55	0.000959	1.43	5.37	6.34	0.32
Fuga	44.5			Bridge									

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	44	Max WS	TR_200 1H	7.32	248.38	250.40	249.46	250.52	0.001243	1.51	4.86	7.53	0.35
Fuga	44	Max WS	TR_200 2H	6.14	248.38	250.57	249.36	250.64	0.000655	1.16	5.29	8.53	0.26
Fuga	44	Max WS	TR_200 3H	5.86	248.38	250.61	249.34	250.67	0.000561	1.09	5.40	8.76	0.24
Fuga	44	Max WS	TR_200 4H	5.77	248.38	250.62	249.33	250.68	0.000534	1.06	5.43	8.83	0.23
Fuga	44	Max WS	TR_200 6H	5.95	248.38	250.60	249.35	250.66	0.000589	1.11	5.37	8.69	0.25
Fuga	44	Max WS	TR_200 8H	6.11	248.38	250.58	249.36	250.64	0.000645	1.15	5.31	8.55	0.26
Fuga	44	Max WS	TR_200 12H	6.25	248.38	250.53	249.37	250.61	0.000725	1.20	5.19	8.30	0.27
Fuga	44	Max WS	TR_30 1H	4.75	248.38	249.90	249.23	249.99	0.001489	1.34	3.55	6.26	0.37
Fuga	44	Max WS	TR_30 2H	7.60	248.38	250.25	249.49	250.40	0.001767	1.70	4.47	7.00	0.41
Fuga	44	Max WS	TR_30 3H	7.66	248.38	250.33	249.50	250.47	0.001554	1.64	4.67	7.23	0.39
Fuga	44	Max WS	TR_30 4H	7.45	248.38	250.37	249.48	250.49	0.001371	1.56	4.77	7.35	0.37
Fuga	44	Max WS	TR_30 6H	7.26	248.38	250.42	249.46	250.53	0.001192	1.48	4.90	7.62	0.35
Fuga	44	Max WS	TR_30 8H	7.35	248.38	250.39	249.47	250.51	0.001282	1.52	4.83	7.46	0.36
Fuga	44	Max WS	TR_30 12H	7.67	248.38	250.33	249.50	250.47	0.001563	1.64	4.66	7.22	0.39
Fuga	43	Max WS	TR_200 1H	7.60	248.32	250.44	249.10	250.46	0.000320	0.59	12.84	8.98	0.16
Fuga	43	Max WS	TR_200 2H	6.66	248.32	250.59	249.04	250.61	0.000186	0.47	14.23	9.38	0.12
Fuga	43	Max WS	TR_200 3H	6.56	248.32	250.63	249.04	250.64	0.000169	0.45	14.57	9.47	0.12
Fuga	43	Max WS	TR_200 4H	6.52	248.32	250.64	249.03	250.65	0.000164	0.44	14.66	9.50	0.11
Fuga	43	Max WS	TR_200 6H	6.59	248.32	250.62	249.03	250.63	0.000174	0.46	14.47	9.45	0.12
Fuga	43	Max WS	TR_200 8H	6.65	248.32	250.60	249.04	250.61	0.000184	0.47	14.27	9.39	0.12
Fuga	43	Max WS	TR_200 12H	6.67	248.32	250.56	249.04	250.57	0.000199	0.48	13.89	9.28	0.13
Fuga	43	Max WS	TR_30 1H	4.87	248.32	249.91	248.92	249.93	0.000414	0.58	8.45	7.61	0.17
Fuga	43	Max WS	TR_30 2H	7.79	248.32	250.30	249.11	250.33	0.000443	0.67	11.60	8.62	0.18
Fuga	43	Max WS	TR_30 3H	7.90	248.32	250.38	249.12	250.40	0.000392	0.64	12.25	8.81	0.17
Fuga	43	Max WS	TR_30 4H	7.72	248.32	250.41	249.11	250.43	0.000351	0.61	12.55	8.90	0.17
Fuga	43	Max WS	TR_30 6H	7.56	248.32	250.46	249.10	250.47	0.000308	0.58	12.97	9.02	0.16
Fuga	43	Max WS	TR_30 8H	7.63	248.32	250.43	249.10	250.45	0.000330	0.60	12.74	8.96	0.16
Fuga	43	Max WS	TR_30 12H	7.90	248.32	250.38	249.11	250.40	0.000394	0.65	12.24	8.81	0.17
Fuga	42	Max WS	TR_200 1H	7.94	248.27	250.42	249.02	250.43	0.000285	0.56	14.06	9.80	0.15
Fuga	42	Max WS	TR_200 2H	7.28	248.27	250.58	248.99	250.59	0.000178	0.46	15.67	10.29	0.12
Fuga	42	Max WS	TR_200 3H	7.38	248.27	250.61	248.99	250.62	0.000172	0.46	16.04	10.39	0.12
Fuga	42	Max WS	TR_200 4H	7.40	248.27	250.62	248.99	250.63	0.000171	0.46	16.14	10.42	0.12
Fuga	42	Max WS	TR_200 6H	7.34	248.27	250.60	248.99	250.61	0.000174	0.46	15.93	10.36	0.12
Fuga	42	Max WS	TR_200 8H	7.29	248.27	250.58	248.99	250.59	0.000178	0.46	15.72	10.30	0.12
Fuga	42	Max WS	TR_200 12H	7.16	248.27	250.54	248.98	250.55	0.000185	0.47	15.29	10.17	0.12
Fuga	42	Max WS	TR_30 1H	5.00	248.27	249.88	248.85	249.90	0.000353	0.54	9.25	8.18	0.16
Fuga	42	Max WS	TR_30 2H	7.99	248.27	250.27	249.03	250.29	0.000386	0.63	12.62	9.34	0.17
Fuga	42	Max WS	TR_30 3H	8.17	248.27	250.35	249.04	250.36	0.000345	0.61	13.37	9.58	0.17
Fuga	42	Max WS	TR_30 4H	8.03	248.27	250.38	249.03	250.40	0.000312	0.59	13.72	9.69	0.16
Fuga	42	Max WS	TR_30 6H	7.90	248.27	250.43	249.02	250.45	0.000274	0.56	14.20	9.84	0.15
Fuga	42	Max WS	TR_30 8H	7.96	248.27	250.40	249.03	250.42	0.000293	0.57	13.95	9.76	0.15
Fuga	42	Max WS	TR_30 12H	8.17	248.27	250.34	249.04	250.36	0.000346	0.61	13.36	9.58	0.17
Fuga	41	Max WS	TR_200 1H	8.25	248.35	250.38	249.11	250.40	0.000386	0.64	12.92	9.46	0.17
Fuga	41	Max WS	TR_200 2H	7.84	248.35	250.55	249.10	250.57	0.000252	0.54	14.58	9.99	0.14
Fuga	41	Max WS	TR_200 3H	8.13	248.35	250.59	249.11	250.60	0.000254	0.54	14.93	10.10	0.14
Fuga	41	Max WS	TR_200 4H	8.21	248.35	250.60	249.11	250.61	0.000255	0.55	15.02	10.12	0.14
Fuga	41	Max WS	TR_200 6H	8.02	248.35	250.58	249.10	250.59	0.000252	0.54	14.83	10.06	0.14
Fuga	41	Max WS	TR_200 8H	7.87	248.35	250.56	249.10	250.57	0.000252	0.54	14.62	10.00	0.14
Fuga	41	Max WS	TR_200 12H	7.61	248.35	250.52	249.08	250.53	0.000254	0.54	14.22	9.88	0.14
Fuga	41	Max WS	TR_30 1H	5.12	248.35	249.84	248.93	249.86	0.000507	0.62	8.23	7.78	0.19
Fuga	41	Max WS	TR_30 2H	8.18	248.35	250.22	249.11	250.25	0.000529	0.72	11.43	8.96	0.20
Fuga	41	Max WS	TR_30 3H	8.42	248.35	250.30	249.13	250.33	0.000471	0.69	12.19	9.22	0.19
Fuga	41	Max WS	TR_30 4H	8.33	248.35	250.34	249.12	250.37	0.000424	0.66	12.56	9.34	0.18
Fuga	41	Max WS	TR_30 6H	8.22	248.35	250.40	249.12	250.42	0.000372	0.63	13.07	9.51	0.17
Fuga	41	Max WS	TR_30 8H	8.26	248.35	250.37	249.12	250.39	0.000398	0.65	12.80	9.42	0.18
Fuga	41	Max WS	TR_30 12H	8.41	248.35	250.30	249.13	250.33	0.000472	0.69	12.18	9.22	0.19
Fuga	40.2857	Max WS	TR_200 1H	8.57	248.32	250.35	249.11	250.37	0.000407	0.65	13.14	9.79	0.18
Fuga	40.2857	Max WS	TR_200 2H	8.44	248.32	250.53	249.10	250.54	0.000277	0.56	14.97	10.38	0.15
Fuga	40.2857	Max WS	TR_200 3H	8.92	248.32	250.56	249.13	250.58	0.000291	0.58	15.31	10.49	0.15
Fuga	40.2857	Max WS	TR_200 4H	9.06	248.32	250.57	249.14	250.58	0.000297	0.59	15.40	10.52	0.16
Fuga	40.2857	Max WS	TR_200 6H	8.75	248.32	250.55	249.12	250.57	0.000286	0.58	15.21	10.46	0.15
Fuga	40.2857	Max WS	TR_200 8H	8.49	248.32	250.53	249.10	250.55	0.000278	0.57	15.01	10.40	0.15
Fuga	40.2857	Max WS	TR_200 12H	8.09	248.32	250.49	249.08	250.51	0.000273	0.55	14.61	10.27	0.15
Fuga	40.2857	Max WS	TR_30 1H	5.24	248.32	249.79	248.92	249.81	0.000548	0.64	8.21	7.99	0.20
Fuga	40.2857	Max WS	TR_30 2H	8.36	248.32	250.17	249.10	250.20	0.000557	0.73	11.49	9.23	0.21
Fuga	40.2857	Max WS	TR_30 3H	8.69	248.32	250.26	249.12	250.29	0.000498	0.71	12.32	9.52	0.20
Fuga	40.2857	Max WS	TR_30 4H	8.63	248.32	250.30	249.11	250.33	0.000448	0.68	12.74	9.66	0.19
Fuga	40.2857	Max WS	TR_30 6H	8.55	248.32	250.36	249.11	250.38	0.000391	0.64	13.31	9.85	0.18
Fuga	40.2857	Max WS	TR_30 8H	8.58	248.32	250.33	249.11	250.35	0.000419	0.66	13.01	9.75	0.18
Fuga	40.2857	Max WS	TR_30 12H	8.67	248.32	250.26	249.11	250.28	0.000498	0.71	12.30	9.51	0.20
Fuga	40.22			Lat Struct									
Fuga	40	Max WS	TR_200 1H	8.70	248.31	250.33	249.10	250.35	0.000414	0.66	13.25	9.94	0.18
Fuga	40	Max WS	TR_200 2H	8.51	248.31	250.52	249.09	250.53	0.000274	0.56	15.16	10.43	0.15
Fuga	40	Max WS	TR_200 3H	8.87	248.31	250.55	249.11	250.57	0.000278	0.57	15.51	10.49	0.15
Fuga	40	Max WS	TR_200 4H	8.97	248.31	250.56	249.12	250.58	0.000281	0.58	15.59	10.51	0.15
Fuga	40	Max WS	TR_200 6H	8.74	248.31	250.54	249.11	250.56	0.000276	0.57	15.41	10.47	0.15
Fuga	40	Max WS	TR_200 8H	8.55	248.31	250.52	249.10	250.54	0.000274	0.56	15.20	10.44	0.15
Fuga	40	Max WS	TR_200 12H	8.24	248.31	250.48	249.08	250.50	0.000275	0.56	14.79	10.36	0.15
Fuga	40	Max WS	TR_30 1H	5.29	248.31	249.77	248.91	249.79	0.000564	0.64	8.22	8.08	0.20
Fuga	40	Max WS	TR_30 2H	8.44	248.31	250.15	249.09	250.18	0.000568	0.73	11.53	9.34	0.21

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	40	Max WS	TR_30 3H	8.79	248.31	250.24	249.11	250.27	0.000508	0.71	12.38	9.64	0.20
Fuga	40	Max WS	TR_30 4H	8.75	248.31	250.29	249.11	250.31	0.000457	0.68	12.83	9.80	0.19
Fuga	40	Max WS	TR_30 6H	8.69	248.31	250.35	249.10	250.37	0.000398	0.65	13.43	10.00	0.18
Fuga	40	Max WS	TR_30 8H	8.71	248.31	250.32	249.11	250.34	0.000427	0.66	13.11	9.89	0.18
Fuga	40	Max WS	TR_30 12H	8.78	248.31	250.24	249.11	250.27	0.000508	0.71	12.37	9.64	0.20
Fuga	39	Max WS	TR_200 1H	9.04	248.01	250.16	249.22	250.31	0.001526	1.72	5.26	8.61	0.39
Fuga	39	Max WS	TR_200 2H	8.71	248.01	250.40	249.19	250.51	0.000972	1.48	5.89	9.62	0.31
Fuga	39	Max WS	TR_200 3H	8.68	248.01	250.44	249.19	250.55	0.000907	1.45	6.00	9.79	0.30
Fuga	39	Max WS	TR_200 4H	8.66	248.01	250.45	249.19	250.56	0.000888	1.44	6.03	9.84	0.30
Fuga	39	Max WS	TR_200 6H	8.69	248.01	250.43	249.19	250.54	0.000926	1.46	5.97	9.74	0.31
Fuga	39	Max WS	TR_200 8H	8.71	248.01	250.40	249.19	250.52	0.000965	1.47	5.90	9.64	0.31
Fuga	39	Max WS	TR_200 12H	8.64	248.01	250.36	249.19	250.47	0.001019	1.49	5.78	9.44	0.32
Fuga	39	Max WS	TR_30 1H	5.42	248.01	249.62	248.91	249.72	0.001545	1.40	3.86	6.48	0.37
Fuga	39	Max WS	TR_30 2H	8.61	248.01	249.94	249.18	250.11	0.002023	1.83	4.70	7.71	0.44
Fuga	39	Max WS	TR_30 3H	9.06	248.01	250.04	249.22	250.21	0.001876	1.83	4.95	8.12	0.42
Fuga	39	Max WS	TR_30 4H	9.06	248.01	250.10	249.22	250.26	0.001683	1.77	5.11	8.38	0.40
Fuga	39	Max WS	TR_30 6H	9.03	248.01	250.18	249.22	250.33	0.001465	1.70	5.32	8.71	0.38
Fuga	39	Max WS	TR_30 8H	9.04	248.01	250.14	249.22	250.29	0.001572	1.73	5.22	8.54	0.39
Fuga	39	Max WS	TR_30 12H	9.05	248.01	250.04	249.22	250.21	0.001875	1.83	4.95	8.12	0.42
Fuga	38.5			Bridge									
Fuga	38	Max WS	TR_200 1H	9.04	247.95	250.15	249.18	250.29	0.001425	1.70	5.31	6.55	0.38
Fuga	38	Max WS	TR_200 2H	8.71	247.95	250.39	249.15	250.50	0.000913	1.47	5.93	7.23	0.31
Fuga	38	Max WS	TR_200 3H	8.68	247.95	250.43	249.15	250.53	0.000853	1.44	6.04	7.35	0.30
Fuga	38	Max WS	TR_200 4H	8.66	247.95	250.44	249.15	250.54	0.000835	1.43	6.07	7.38	0.30
Fuga	38	Max WS	TR_200 6H	8.69	247.95	250.42	249.15	250.52	0.000871	1.45	6.01	7.31	0.30
Fuga	38	Max WS	TR_200 8H	8.71	247.95	250.39	249.15	250.50	0.000906	1.46	5.94	7.24	0.31
Fuga	38	Max WS	TR_200 12H	8.64	247.95	250.35	249.15	250.46	0.000955	1.48	5.82	7.11	0.32
Fuga	38	Max WS	TR_30 1H	5.42	247.95	249.62	248.87	249.72	0.001376	1.37	3.94	5.23	0.36
Fuga	38	Max WS	TR_30 2H	8.60	247.95	249.93	249.14	250.10	0.001863	1.81	4.75	5.94	0.43
Fuga	38	Max WS	TR_30 3H	9.06	247.95	250.03	249.18	250.20	0.001744	1.81	5.00	6.21	0.42
Fuga	38	Max WS	TR_30 4H	9.06	247.95	250.09	249.18	250.25	0.001570	1.76	5.16	6.39	0.40
Fuga	38	Max WS	TR_30 6H	9.03	247.95	250.17	249.18	250.31	0.001370	1.68	5.37	6.61	0.37
Fuga	38	Max WS	TR_30 8H	9.04	247.95	250.13	249.18	250.28	0.001467	1.72	5.26	6.49	0.39
Fuga	38	Max WS	TR_30 12H	9.05	247.95	250.03	249.18	250.20	0.001743	1.81	5.00	6.21	0.42
Fuga	37	Max WS	TR_200 1H	9.42	247.86	250.21	248.97	250.22	0.000184	0.44	21.20	16.23	0.12
Fuga	37	Max WS	TR_200 2H	9.40	247.86	250.44	248.98	250.45	0.000114	0.38	24.96	17.01	0.10
Fuga	37	Max WS	TR_200 3H	9.59	247.86	250.48	249.00	250.49	0.000110	0.37	25.62	17.14	0.10
Fuga	37	Max WS	TR_200 4H	9.64	247.86	250.49	249.00	250.50	0.000109	0.37	25.79	17.17	0.10
Fuga	37	Max WS	TR_200 6H	9.53	247.86	250.47	248.99	250.47	0.000111	0.37	25.43	17.10	0.10
Fuga	37	Max WS	TR_200 8H	9.42	247.86	250.44	248.98	250.45	0.000113	0.38	25.04	17.02	0.10
Fuga	37	Max WS	TR_200 12H	9.19	247.86	250.40	248.95	250.41	0.000118	0.38	24.28	16.87	0.10
Fuga	37	Max WS	TR_30 1H	5.57	247.86	249.63	248.69	249.64	0.000322	0.45	12.35	14.26	0.15
Fuga	37	Max WS	TR_30 2H	8.86	247.86	250.00	248.92	250.01	0.000274	0.50	17.78	15.50	0.15
Fuga	37	Max WS	TR_30 3H	9.37	247.86	250.10	248.97	250.11	0.000237	0.48	19.38	15.85	0.14
Fuga	37	Max WS	TR_30 4H	9.41	247.86	250.16	248.97	250.17	0.000208	0.46	20.33	16.05	0.13
Fuga	37	Max WS	TR_30 6H	9.42	247.86	250.24	248.98	250.25	0.000175	0.44	21.57	16.31	0.12
Fuga	37	Max WS	TR_30 8H	9.41	247.86	250.20	248.96	250.21	0.000191	0.45	20.92	16.18	0.13
Fuga	37	Max WS	TR_30 12H	9.35	247.86	250.10	248.97	250.11	0.000237	0.48	19.37	15.84	0.14
Fuga	36	Max WS	TR_200 1H	9.82	247.80	250.19	248.91	250.20	0.000200	0.46	21.18	16.24	0.13
Fuga	36	Max WS	TR_200 2H	10.15	247.80	250.42	248.95	250.43	0.000131	0.40	25.08	17.08	0.11
Fuga	36	Max WS	TR_200 3H	10.59	247.80	250.46	248.98	250.47	0.000132	0.41	25.74	17.22	0.11
Fuga	36	Max WS	TR_200 4H	10.72	247.80	250.47	248.99	250.48	0.000133	0.41	25.90	17.25	0.11
Fuga	36	Max WS	TR_200 6H	10.45	247.80	250.45	248.97	250.46	0.000132	0.41	25.54	17.18	0.11
Fuga	36	Max WS	TR_200 8H	10.20	247.80	250.43	248.95	250.44	0.000131	0.41	25.15	17.10	0.11
Fuga	36	Max WS	TR_200 12H	9.80	247.80	250.38	248.91	250.39	0.000132	0.40	24.40	16.94	0.11
Fuga	36	Max WS	TR_30 1H	5.73	247.80	249.59	248.64	249.60	0.000356	0.47	12.12	14.09	0.16
Fuga	36	Max WS	TR_30 2H	9.11	247.80	249.96	248.87	249.98	0.000297	0.52	17.60	15.43	0.15
Fuga	36	Max WS	TR_30 3H	9.70	247.80	250.07	248.90	250.08	0.000258	0.50	19.26	15.81	0.15
Fuga	36	Max WS	TR_30 4H	9.79	247.80	250.13	248.91	250.14	0.000227	0.48	20.26	16.03	0.14
Fuga	36	Max WS	TR_30 6H	9.84	247.80	250.21	248.91	250.22	0.000191	0.46	21.56	16.33	0.13
Fuga	36	Max WS	TR_30 8H	9.81	247.80	250.17	248.91	250.18	0.000208	0.47	20.88	16.17	0.13
Fuga	36	Max WS	TR_30 12H	9.68	247.80	250.07	248.90	250.08	0.000258	0.50	19.24	15.81	0.15
Fuga	35.4	Max WS	TR_200 1H	10.03	247.80	250.18	249.01	250.19	0.000225	0.48	20.70	16.19	0.14
Fuga	35.4	Max WS	TR_200 2H	10.53	247.80	250.41	249.04	250.42	0.000147	0.43	24.75	19.38	0.11
Fuga	35.4	Max WS	TR_200 3H	11.09	247.80	250.45	249.07	250.46	0.000151	0.44	25.69	32.12	0.11
Fuga	35.4	Max WS	TR_200 4H	11.25	247.80	250.46	249.08	250.47	0.000152	0.44	25.99	32.14	0.12
Fuga	35.4	Max WS	TR_200 6H	10.90	247.80	250.44	249.06	250.45	0.000149	0.43	25.34	29.69	0.11
Fuga	35.4	Max WS	TR_200 8H	10.59	247.80	250.42	249.05	250.43	0.000147	0.43	24.83	19.52	0.11
Fuga	35.4	Max WS	TR_200 12H	10.10	247.80	250.37	249.01	250.38	0.000148	0.42	24.00	18.14	0.11
Fuga	35.4	Max WS	TR_30 1H	5.80	247.80	249.57	248.66	249.58	0.000437	0.50	11.50	14.07	0.18
Fuga	35.4	Max WS	TR_30 2H	9.23	247.80	249.94	248.91	249.96	0.000340	0.54	17.03	15.38	0.16
Fuga	35.4	Max WS	TR_30 3H	9.86	247.80	250.05	249.00	250.07	0.000293	0.53	18.73	15.76	0.15
Fuga	35.4	Max WS	TR_30 4H	9.98	247.80	250.12	249.01	250.13	0.000256	0.51	19.76	15.98	0.15
Fuga	35.4	Max WS	TR_30 6H	10.05	247.80	250.20	249.01	250.21	0.000214	0.48	21.09	16.27	0.13
Fuga	35.4	Max WS	TR_30 8H	10.01	247.80	250.16	249.01	250.17	0.000234	0.49	20.40	16.12	0.14
Fuga	35.4	Max WS	TR_30 12H	9.84	247.80	250.05	249.00	250.07	0.000293	0.53	18.71	15.75	0.15
Fuga	35.21			Lat Struct									
Fuga	35	Max WS	TR_200 1H	10.16	247.80	250.17	249.03	250.18	0.000244	0.50	20.39	16.22	0.14

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	35	Max WS	TR_200 2H	10.62	247.80	250.41	249.05	250.42	0.000150	0.43	26.22	38.42	0.11
Fuga	35	Max WS	TR_200 3H	10.88	247.80	250.45	249.06	250.46	0.000142	0.43	27.72	38.48	0.11
Fuga	35	Max WS	TR_200 4H	10.93	247.80	250.46	249.06	250.47	0.000140	0.43	28.11	38.49	0.11
Fuga	35	Max WS	TR_200 6H	10.81	247.80	250.44	249.06	250.45	0.000144	0.43	27.28	38.46	0.11
Fuga	35	Max WS	TR_200 8H	10.66	247.80	250.41	249.05	250.42	0.000149	0.43	26.41	38.43	0.11
Fuga	35	Max WS	TR_200 12H	10.29	247.80	250.37	249.04	250.38	0.000156	0.43	24.66	38.36	0.12
Fuga	35	Max WS	TR_30 1H	5.86	247.80	249.55	248.66	249.56	0.000506	0.53	11.08	14.05	0.19
Fuga	35	Max WS	TR_30 2H	9.31	247.80	249.93	248.97	249.95	0.000374	0.56	16.66	15.34	0.17
Fuga	35	Max WS	TR_30 3H	9.97	247.80	250.04	249.02	250.06	0.000320	0.54	18.38	15.72	0.16
Fuga	35	Max WS	TR_30 4H	10.11	247.80	250.11	249.03	250.12	0.000279	0.52	19.43	15.95	0.15
Fuga	35	Max WS	TR_30 6H	10.18	247.80	250.19	249.03	250.20	0.000231	0.49	20.80	16.88	0.14
Fuga	35	Max WS	TR_30 8H	10.14	247.80	250.15	249.03	250.16	0.000255	0.50	20.08	16.09	0.14
Fuga	35	Max WS	TR_30 12H	9.95	247.80	250.04	249.02	250.05	0.000320	0.54	18.36	15.72	0.16
Fuga	34	Max WS	TR_200 1H	10.51	247.67	250.14	248.98	250.15	0.000263	0.52	20.18	15.75	0.15
Fuga	34	Max WS	TR_200 2H	11.20	247.67	250.39	249.04	250.40	0.000175	0.46	24.22	16.64	0.12
Fuga	34	Max WS	TR_200 3H	11.45	247.67	250.43	249.05	250.44	0.000170	0.46	24.89	16.78	0.12
Fuga	34	Max WS	TR_200 4H	11.50	247.67	250.44	249.05	250.45	0.000168	0.46	25.06	16.82	0.12
Fuga	34	Max WS	TR_200 6H	11.39	247.67	250.42	249.05	250.43	0.000172	0.46	24.69	16.74	0.12
Fuga	34	Max WS	TR_200 8H	11.23	247.67	250.40	249.04	250.41	0.000175	0.46	24.30	16.65	0.12
Fuga	34	Max WS	TR_200 12H	10.81	247.67	250.35	249.01	250.36	0.000177	0.46	23.55	16.49	0.12
Fuga	34	Max WS	TR_30 1H	5.99	247.67	249.50	248.62	249.51	0.000548	0.55	10.80	13.47	0.20
Fuga	34	Max WS	TR_30 2H	9.53	247.67	249.89	248.89	249.91	0.000399	0.58	16.37	14.86	0.18
Fuga	34	Max WS	TR_30 3H	10.26	247.67	250.01	248.96	250.02	0.000343	0.57	18.11	15.27	0.17
Fuga	34	Max WS	TR_30 4H	10.43	247.67	250.08	248.98	250.09	0.000300	0.54	19.19	15.52	0.16
Fuga	34	Max WS	TR_30 6H	10.54	247.67	250.17	248.99	250.18	0.000249	0.51	20.59	15.84	0.14
Fuga	34	Max WS	TR_30 8H	10.48	247.67	250.12	248.98	250.13	0.000273	0.53	19.87	15.68	0.15
Fuga	34	Max WS	TR_30 12H	10.23	247.67	250.01	248.96	250.02	0.000343	0.57	18.09	15.27	0.17
Fuga	33	Max WS	TR_200 1H	10.86	247.61	250.11	248.80	250.13	0.000251	0.52	21.00	16.03	0.14
Fuga	33	Max WS	TR_200 2H	11.84	247.61	250.37	248.87	250.38	0.000175	0.47	25.24	16.93	0.12
Fuga	33	Max WS	TR_200 3H	12.31	247.61	250.41	248.91	250.42	0.000175	0.48	25.91	17.07	0.12
Fuga	33	Max WS	TR_200 4H	12.42	247.61	250.42	248.92	250.43	0.000175	0.48	26.07	17.10	0.12
Fuga	33	Max WS	TR_200 6H	12.17	247.61	250.40	248.89	250.41	0.000176	0.47	25.71	17.03	0.12
Fuga	33	Max WS	TR_200 8H	11.90	247.61	250.38	248.87	250.39	0.000175	0.47	25.32	16.95	0.12
Fuga	33	Max WS	TR_200 12H	11.33	247.61	250.33	248.84	250.34	0.000173	0.46	24.57	16.79	0.12
Fuga	33	Max WS	TR_30 1H	6.13	247.61	249.44	248.49	249.46	0.000546	0.56	11.03	13.68	0.20
Fuga	33	Max WS	TR_30 2H	9.74	247.61	249.85	248.72	249.87	0.000382	0.58	16.92	15.11	0.17
Fuga	33	Max WS	TR_30 3H	10.54	247.61	249.97	248.76	249.99	0.000329	0.56	18.77	15.54	0.16
Fuga	33	Max WS	TR_30 4H	10.76	247.61	250.05	248.79	250.06	0.000287	0.54	19.94	15.80	0.15
Fuga	33	Max WS	TR_30 6H	10.90	247.61	250.14	248.80	250.15	0.000238	0.51	21.44	16.13	0.14
Fuga	33	Max WS	TR_30 8H	10.82	247.61	250.09	248.79	250.11	0.000262	0.52	20.67	15.96	0.15
Fuga	33	Max WS	TR_30 12H	10.51	247.61	249.97	248.77	249.99	0.000328	0.56	18.76	15.53	0.16
Fuga	32	Max WS	TR_200 1H	10.97	247.78	250.10	248.73	250.12	0.000206	0.56	19.64	15.53	0.14
Fuga	32	Max WS	TR_200 2H	12.05	247.78	250.36	248.78	250.38	0.000153	0.53	22.72	16.28	0.12
Fuga	32	Max WS	TR_200 3H	12.58	247.78	250.40	248.81	250.42	0.000156	0.54	23.18	16.39	0.12
Fuga	32	Max WS	TR_200 4H	12.72	247.78	250.41	248.81	250.43	0.000157	0.55	23.29	16.42	0.12
Fuga	32	Max WS	TR_200 6H	12.43	247.78	250.39	248.80	250.40	0.000155	0.54	23.04	16.36	0.12
Fuga	32	Max WS	TR_200 8H	12.11	247.78	250.37	248.78	250.38	0.000154	0.53	22.77	16.29	0.12
Fuga	32	Max WS	TR_200 12H	11.49	247.78	250.32	248.76	250.34	0.000150	0.52	22.25	16.17	0.12
Fuga	32	Max WS	TR_30 1H	6.17	247.78	249.43	248.49	249.44	0.000380	0.53	11.58	12.89	0.17
Fuga	32	Max WS	TR_30 2H	9.81	247.78	249.84	248.68	249.86	0.000296	0.60	16.48	14.51	0.16
Fuga	32	Max WS	TR_30 3H	10.63	247.78	249.96	248.72	249.98	0.000263	0.59	17.93	14.99	0.15
Fuga	32	Max WS	TR_30 4H	10.86	247.78	250.04	248.73	250.05	0.000233	0.58	18.83	15.29	0.15
Fuga	32	Max WS	TR_30 6H	11.02	247.78	250.13	248.73	250.15	0.000197	0.55	19.97	15.61	0.14
Fuga	32	Max WS	TR_30 8H	10.93	247.78	250.08	248.73	250.10	0.000214	0.56	19.38	15.47	0.14
Fuga	32	Max WS	TR_30 12H	10.60	247.78	249.96	248.72	249.98	0.000262	0.59	17.92	14.99	0.15
Fuga	31.5			Bridge									
Fuga	31	Max WS	TR_200 1H	10.97	247.78	250.10	248.83	250.11	0.000300	0.62	17.81	13.43	0.16
Fuga	31	Max WS	TR_200 2H	12.05	247.78	250.36	248.88	250.37	0.000211	0.58	20.95	14.31	0.14
Fuga	31	Max WS	TR_200 3H	12.58	247.78	250.39	248.90	250.41	0.000214	0.59	21.41	14.44	0.14
Fuga	31	Max WS	TR_200 4H	12.72	247.78	250.40	248.91	250.42	0.000215	0.59	21.52	14.48	0.14
Fuga	31	Max WS	TR_200 6H	12.43	247.78	250.38	248.89	250.40	0.000213	0.58	21.27	14.41	0.14
Fuga	31	Max WS	TR_200 8H	12.11	247.78	250.36	248.89	250.38	0.000211	0.58	21.00	14.33	0.14
Fuga	31	Max WS	TR_200 12H	11.49	247.78	250.32	248.86	250.33	0.000207	0.56	20.47	14.18	0.14
Fuga	31	Max WS	TR_30 1H	6.17	247.78	249.41	248.53	249.43	0.000591	0.63	9.80	10.64	0.21
Fuga	31	Max WS	TR_30 2H	9.81	247.78	249.83	248.74	249.85	0.000468	0.67	14.58	12.52	0.20
Fuga	31	Max WS	TR_30 3H	10.63	247.78	249.95	248.78	249.97	0.000398	0.66	16.05	12.94	0.18
Fuga	31	Max WS	TR_30 4H	10.86	247.78	250.03	248.82	250.05	0.000345	0.64	16.98	13.20	0.17
Fuga	31	Max WS	TR_30 6H	11.02	247.78	250.12	248.83	250.14	0.000284	0.61	18.15	13.53	0.16
Fuga	31	Max WS	TR_30 8H	10.93	247.78	250.07	248.83	250.09	0.000313	0.62	17.55	13.36	0.16
Fuga	31	Max WS	TR_30 12H	10.60	247.78	249.95	248.78	249.97	0.000397	0.66	16.05	12.93	0.18
Fuga	30	Max WS	TR_200 1H	11.29	247.77	250.07	248.79	250.08	0.000240	0.58	20.67	15.48	0.15
Fuga	30	Max WS	TR_200 2H	12.63	247.77	250.34	248.96	250.35	0.000172	0.54	24.94	16.35	0.13
Fuga	30	Max WS	TR_200 3H	13.35	247.77	250.37	248.99	250.39	0.000179	0.56	25.55	16.47	0.13
Fuga	30	Max WS	TR_200 4H	13.55	247.77	250.38	248.99	250.40	0.000181	0.56	25.71	16.50	0.13
Fuga	30	Max WS	TR_200 6H	13.13	247.77	250.36	248.98	250.38	0.000177	0.55	25.37	16.43	0.13
Fuga	30	Max WS	TR_200 8H	12.72	247.77	250.34	248.97	250.35	0.000172	0.54	25.02	16.36	0.13
Fuga	30	Max WS	TR_200 12H	11.96	247.77	250.30	248.92	250.31	0.000166	0.52	24.32	16.22	0.13
Fuga	30	Max WS	TR_30 1H	6.29	247.77	249.35	248.50	249.37	0.000610	0.61	10.44	13.19	0.21
Fuga	30	Max WS	TR_30 2H	10.00	247.77	249.78	248.72	249.80	0.000381	0.63	16.38	14.56	0.18
Fuga	30	Max WS	TR_30 3H	10.88	247.77	249.91	248.77	249.93	0.000322	0.62	18.29	14.98	0.17

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	30	Max WS	TR_30 4H	11.16	247.77	249.99	248.78	250.01	0.000277	0.60	19.54	15.25	0.16
Fuga	30	Max WS	TR_30 6H	11.34	247.77	250.10	248.79	250.11	0.000227	0.57	21.13	15.58	0.14
Fuga	30	Max WS	TR_30 8H	11.24	247.77	250.04	248.79	250.06	0.000251	0.58	20.31	15.41	0.15
Fuga	30	Max WS	TR_30 12H	10.86	247.77	249.91	248.77	249.93	0.000321	0.62	18.28	14.98	0.17
Fuga	29.25	Max WS	TR_200 1H	11.48	247.68	250.03	248.73	250.07	0.000501	0.78	15.30	15.34	0.20
Fuga	29.25	Max WS	TR_200 2H	13.00	247.68	250.31	248.81	250.34	0.000339	0.72	21.22	31.12	0.17
Fuga	29.25	Max WS	TR_200 3H	13.84	247.68	250.35	248.85	250.38	0.000352	0.75	22.40	33.80	0.17
Fuga	29.25	Max WS	TR_200 4H	14.08	247.68	250.36	248.86	250.39	0.000356	0.75	22.72	34.47	0.18
Fuga	29.25	Max WS	TR_200 6H	13.58	247.68	250.34	248.83	250.37	0.000348	0.74	22.05	33.01	0.17
Fuga	29.25	Max WS	TR_200 8H	13.10	247.68	250.32	248.81	250.34	0.000341	0.72	21.36	31.45	0.17
Fuga	29.25	Max WS	TR_200 12H	12.26	247.68	250.28	248.77	250.30	0.000330	0.70	20.10	28.09	0.17
Fuga	29.25	Max WS	TR_30 1H	6.37	247.68	249.30	248.42	249.33	0.000868	0.80	7.98	7.64	0.25
Fuga	29.25	Max WS	TR_30 2H	10.12	247.68	249.73	248.66	249.77	0.000794	0.87	11.64	9.39	0.25
Fuga	29.25	Max WS	TR_30 3H	11.04	247.68	249.87	248.71	249.91	0.000691	0.85	13.05	11.59	0.23
Fuga	29.25	Max WS	TR_30 4H	11.34	247.68	249.96	248.73	249.99	0.000589	0.82	14.15	13.56	0.22
Fuga	29.25	Max WS	TR_30 6H	11.54	247.68	250.07	248.73	250.10	0.000470	0.77	15.79	16.05	0.20
Fuga	29.25	Max WS	TR_30 8H	11.43	247.68	250.01	248.73	250.04	0.000526	0.80	14.92	14.78	0.21
Fuga	29.25	Max WS	TR_30 12H	11.02	247.68	249.87	248.71	249.90	0.000689	0.85	13.05	11.57	0.23
Fuga	29.21			Lat Struct									
Fuga	29	Max WS	TR_200 1H	11.55	247.65	249.94	248.76	250.06	0.001133	1.57	7.35	8.31	0.33
Fuga	29	Max WS	TR_200 2H	13.00	247.65	250.22	248.85	250.35	0.000966	1.57	8.28	17.35	0.31
Fuga	29	Max WS	TR_200 3H	13.66	247.65	250.26	248.89	250.39	0.001023	1.63	8.38	17.85	0.32
Fuga	29	Max WS	TR_200 4H	13.83	247.65	250.26	248.90	250.40	0.001037	1.64	8.41	17.99	0.33
Fuga	29	Max WS	TR_200 6H	13.46	247.65	250.25	248.87	250.38	0.001006	1.61	8.35	17.70	0.32
Fuga	29	Max WS	TR_200 8H	13.08	247.65	250.23	248.85	250.35	0.000973	1.58	8.29	17.41	0.31
Fuga	29	Max WS	TR_200 12H	12.35	247.65	250.19	248.80	250.31	0.000910	1.51	8.17	16.84	0.30
Fuga	29	Max WS	TR_30 1H	6.40	247.65	249.23	248.40	249.31	0.001199	1.26	5.07	6.46	0.32
Fuga	29	Max WS	TR_30 2H	10.15	247.65	249.63	248.67	249.76	0.001424	1.60	6.35	7.44	0.36
Fuga	29	Max WS	TR_30 3H	11.09	247.65	249.76	248.73	249.90	0.001370	1.64	6.78	7.77	0.36
Fuga	29	Max WS	TR_30 4H	11.40	247.65	249.85	248.75	249.98	0.001255	1.61	7.08	8.00	0.35
Fuga	29	Max WS	TR_30 6H	11.61	247.65	249.97	248.76	250.09	0.001090	1.56	7.46	8.88	0.33
Fuga	29	Max WS	TR_30 8H	11.50	247.65	249.91	248.76	250.04	0.001168	1.58	7.27	8.14	0.34
Fuga	29	Max WS	TR_30 12H	11.07	247.65	249.76	248.73	249.90	0.001365	1.63	6.78	7.77	0.36
Fuga	28.5			Bridge									
Fuga	28	Max WS	TR_200 1H	11.52	247.63	249.77	248.75	249.91	0.001394	1.68	6.84	7.92	0.37
Fuga	28	Max WS	TR_200 2H	12.99	247.63	249.90	248.85	250.07	0.001432	1.78	7.29	8.27	0.38
Fuga	28	Max WS	TR_200 3H	13.66	247.63	249.93	248.89	250.11	0.001519	1.85	7.38	8.34	0.39
Fuga	28	Max WS	TR_200 4H	13.83	247.63	249.94	248.90	250.12	0.001536	1.87	7.41	8.37	0.40
Fuga	28	Max WS	TR_200 6H	13.46	247.63	249.92	248.88	250.09	0.001493	1.83	7.36	8.32	0.39
Fuga	28	Max WS	TR_200 8H	13.08	247.63	249.91	248.85	250.07	0.001443	1.79	7.30	8.28	0.38
Fuga	28	Max WS	TR_200 12H	12.35	247.63	249.88	248.81	250.03	0.001350	1.72	7.20	8.20	0.37
Fuga	28	Max WS	TR_30 1H	6.40	247.63	249.22	248.41	249.30	0.001188	1.27	5.04	6.54	0.33
Fuga	28	Max WS	TR_30 2H	10.14	247.63	249.59	248.67	249.72	0.001453	1.62	6.26	7.48	0.37
Fuga	28	Max WS	TR_30 3H	11.09	247.63	249.71	248.73	249.85	0.001415	1.67	6.65	7.78	0.37
Fuga	28	Max WS	TR_30 4H	11.39	247.63	249.75	248.75	249.89	0.001400	1.68	6.78	7.88	0.37
Fuga	28	Max WS	TR_30 6H	11.55	247.63	249.77	248.76	249.92	0.001383	1.68	6.87	7.95	0.37
Fuga	28	Max WS	TR_30 8H	11.48	247.63	249.76	248.75	249.90	0.001395	1.68	6.82	7.91	0.37
Fuga	28	Max WS	TR_30 12H	11.07	247.63	249.71	248.73	249.85	0.001410	1.66	6.65	7.78	0.37
Fuga	27	Max WS	TR_200 1H	11.86	247.56	249.83	248.55	249.85	0.000303	0.57	20.79	15.66	0.16
Fuga	27	Max WS	TR_200 2H	13.61	247.56	249.98	248.63	250.00	0.000289	0.59	23.22	16.17	0.16
Fuga	27	Max WS	TR_200 3H	14.47	247.56	250.01	248.78	250.03	0.000305	0.61	23.75	16.28	0.16
Fuga	27	Max WS	TR_200 4H	14.71	247.56	250.02	248.78	250.04	0.000310	0.62	23.89	16.35	0.16
Fuga	27	Max WS	TR_200 6H	14.20	247.56	250.00	248.76	250.02	0.000300	0.60	23.60	16.25	0.16
Fuga	27	Max WS	TR_200 8H	13.71	247.56	249.98	248.64	250.00	0.000291	0.59	23.28	16.18	0.16
Fuga	27	Max WS	TR_200 12H	12.84	247.56	249.95	248.60	249.96	0.000276	0.57	22.65	16.05	0.15
Fuga	27	Max WS	TR_30 1H	6.53	247.56	249.21	248.26	249.23	0.000495	0.55	11.78	13.59	0.19
Fuga	27	Max WS	TR_30 2H	10.35	247.56	249.64	248.48	249.65	0.000361	0.58	17.84	15.01	0.17
Fuga	27	Max WS	TR_30 3H	11.36	247.56	249.77	248.53	249.79	0.000317	0.57	19.86	15.46	0.16
Fuga	27	Max WS	TR_30 4H	11.71	247.56	249.81	248.54	249.83	0.000306	0.57	20.52	15.60	0.16
Fuga	27	Max WS	TR_30 6H	11.92	247.56	249.84	248.55	249.85	0.000300	0.57	20.93	15.69	0.16
Fuga	27	Max WS	TR_30 8H	11.81	247.56	249.82	248.55	249.84	0.000304	0.57	20.71	15.64	0.16
Fuga	27	Max WS	TR_30 12H	11.33	247.56	249.77	248.53	249.79	0.000316	0.57	19.86	15.46	0.16
Fuga	26.7	Max WS	TR_200 1H	12.08	247.46	249.81	248.65	249.83	0.000303	0.57	21.32	15.70	0.16
Fuga	26.7	Max WS	TR_200 2H	13.99	247.46	249.96	248.71	249.98	0.000298	0.59	23.74	16.20	0.16
Fuga	26.7	Max WS	TR_200 3H	14.98	247.46	249.99	248.74	250.01	0.000320	0.62	24.27	17.22	0.16
Fuga	26.7	Max WS	TR_200 4H	15.26	247.46	250.00	248.75	250.02	0.000326	0.63	24.41	17.53	0.16
Fuga	26.7	Max WS	TR_200 6H	14.67	247.46	249.99	248.73	250.00	0.000313	0.61	24.11	16.86	0.16
Fuga	26.7	Max WS	TR_200 8H	14.11	247.46	249.97	248.71	249.98	0.000300	0.59	23.81	16.21	0.16
Fuga	26.7	Max WS	TR_200 12H	13.15	247.46	249.93	248.68	249.95	0.000281	0.57	23.20	16.09	0.15
Fuga	26.7	Max WS	TR_30 1H	6.61	247.46	249.19	248.25	249.20	0.000481	0.54	12.15	13.61	0.18
Fuga	26.7	Max WS	TR_30 2H	10.48	247.46	249.62	248.47	249.63	0.000356	0.57	18.32	15.05	0.17
Fuga	26.7	Max WS	TR_30 3H	11.53	247.46	249.75	248.52	249.77	0.000315	0.57	20.38	15.49	0.16
Fuga	26.7	Max WS	TR_30 4H	11.91	247.46	249.79	248.55	249.81	0.000306	0.57	21.05	15.64	0.16
Fuga	26.7	Max WS	TR_30 6H	12.15	247.46	249.82	248.65	249.84	0.000301	0.57	21.46	15.73	0.15
Fuga	26.7	Max WS	TR_30 8H	12.02	247.46	249.81	248.57	249.82	0.000304	0.57	21.24	15.68	0.16
Fuga	26.7	Max WS	TR_30 12H	11.50	247.46	249.75	248.52	249.77	0.000314	0.56	20.38	15.49	0.16
Fuga	26.61			Lat Struct									

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	26	Max WS	TR_200 1H	12.58	247.21	249.77	248.53	249.79	0.000256	0.55	22.78	15.84	0.15
Fuga	26	Max WS	TR_200 2H	14.35	247.21	249.92	248.58	249.94	0.000245	0.57	25.24	16.29	0.15
Fuga	26	Max WS	TR_200 3H	14.89	247.21	249.96	248.59	249.97	0.000247	0.58	25.75	16.37	0.15
Fuga	26	Max WS	TR_200 4H	15.00	247.21	249.96	248.59	249.98	0.000247	0.58	25.88	16.39	0.15
Fuga	26	Max WS	TR_200 6H	14.73	247.21	249.95	248.58	249.96	0.000247	0.58	25.60	16.35	0.15
Fuga	26	Max WS	TR_200 8H	14.42	247.21	249.93	248.58	249.95	0.000245	0.57	25.31	16.30	0.15
Fuga	26	Max WS	TR_200 12H	13.74	247.21	249.89	248.56	249.91	0.000240	0.56	24.71	16.20	0.14
Fuga	26	Max WS	TR_30 1H	6.80	247.21	249.13	248.18	249.14	0.000364	0.51	13.29	13.64	0.17
Fuga	26	Max WS	TR_30 2H	10.77	247.21	249.57	248.40	249.59	0.000287	0.55	19.69	15.16	0.15
Fuga	26	Max WS	TR_30 3H	11.92	247.21	249.71	248.50	249.73	0.000260	0.55	21.83	15.64	0.15
Fuga	26	Max WS	TR_30 4H	12.38	247.21	249.75	248.52	249.77	0.000257	0.55	22.51	15.78	0.15
Fuga	26	Max WS	TR_30 6H	12.67	247.21	249.78	248.53	249.80	0.000255	0.55	22.92	15.87	0.15
Fuga	26	Max WS	TR_30 8H	12.51	247.21	249.77	248.52	249.78	0.000256	0.55	22.70	15.82	0.15
Fuga	26	Max WS	TR_30 12H	11.89	247.21	249.71	248.50	249.73	0.000259	0.54	21.83	15.64	0.15
Fuga	25.2857	Max WS	TR_200 1H	13.33	247.10	249.70	248.44	249.72	0.000345	0.64	20.95	15.61	0.17
Fuga	25.2857	Max WS	TR_200 2H	15.62	247.10	249.86	248.52	249.88	0.000341	0.68	23.55	18.75	0.17
Fuga	25.2857	Max WS	TR_200 3H	16.50	247.10	249.88	248.54	249.91	0.000359	0.71	24.07	19.42	0.17
Fuga	25.2857	Max WS	TR_200 4H	16.73	247.10	249.89	248.55	249.92	0.000363	0.71	24.21	19.60	0.18
Fuga	25.2857	Max WS	TR_200 6H	16.23	247.10	249.88	248.53	249.90	0.000353	0.70	23.92	19.24	0.17
Fuga	25.2857	Max WS	TR_200 8H	15.72	247.10	249.86	248.52	249.88	0.000342	0.68	23.61	18.84	0.17
Fuga	25.2857	Max WS	TR_200 12H	14.79	247.10	249.83	248.49	249.85	0.000325	0.66	23.01	18.04	0.16
Fuga	25.2857	Max WS	TR_30 1H	7.08	247.10	249.04	248.08	249.05	0.000498	0.59	11.97	12.05	0.19
Fuga	25.2857	Max WS	TR_30 2H	11.21	247.10	249.50	248.35	249.52	0.000385	0.62	17.95	13.89	0.17
Fuga	25.2857	Max WS	TR_30 3H	12.49	247.10	249.64	248.40	249.66	0.000345	0.63	20.03	14.95	0.17
Fuga	25.2857	Max WS	TR_30 4H	13.07	247.10	249.69	248.42	249.71	0.000345	0.64	20.68	15.42	0.17
Fuga	25.2857	Max WS	TR_30 6H	13.45	247.10	249.71	248.44	249.73	0.000345	0.64	21.09	15.71	0.17
Fuga	25.2857	Max WS	TR_30 8H	13.24	247.10	249.70	248.43	249.72	0.000344	0.64	20.87	15.55	0.17
Fuga	25.2857	Max WS	TR_30 12H	12.47	247.10	249.64	248.40	249.66	0.000344	0.63	20.03	14.95	0.17
Fuga	25.22			Lat Struct									
Fuga	25	Max WS	TR_200 1H	13.63	247.06	249.67	248.41	249.70	0.000360	0.68	20.87	19.80	0.18
Fuga	25	Max WS	TR_200 2H	15.06	247.06	249.83	248.46	249.86	0.000305	0.67	24.12	20.58	0.16
Fuga	25	Max WS	TR_200 3H	15.50	247.06	249.86	248.48	249.88	0.000304	0.68	24.72	20.65	0.16
Fuga	25	Max WS	TR_200 4H	15.59	247.06	249.87	248.48	249.89	0.000302	0.68	24.87	20.67	0.16
Fuga	25	Max WS	TR_200 6H	15.36	247.06	249.85	248.47	249.88	0.000304	0.67	24.55	20.63	0.16
Fuga	25	Max WS	TR_200 8H	15.10	247.06	249.84	248.46	249.86	0.000305	0.67	24.19	20.59	0.16
Fuga	25	Max WS	TR_200 12H	14.61	247.06	249.80	248.45	249.82	0.000308	0.66	23.48	20.50	0.16
Fuga	25	Max WS	TR_30 1H	7.19	247.06	248.99	248.03	249.01	0.000534	0.63	11.44	11.42	0.20
Fuga	25	Max WS	TR_30 2H	11.38	247.06	249.47	248.33	249.49	0.000400	0.66	17.33	14.54	0.18
Fuga	25	Max WS	TR_30 3H	12.72	247.06	249.61	248.38	249.64	0.000359	0.66	19.74	18.08	0.17
Fuga	25	Max WS	TR_30 4H	13.34	247.06	249.66	248.40	249.68	0.000359	0.67	20.54	19.31	0.17
Fuga	25	Max WS	TR_30 6H	13.76	247.06	249.68	248.42	249.71	0.000359	0.68	21.05	20.06	0.18
Fuga	25	Max WS	TR_30 8H	13.53	247.06	249.67	248.41	249.69	0.000358	0.68	20.78	19.66	0.18
Fuga	25	Max WS	TR_30 12H	12.69	247.06	249.61	248.38	249.64	0.000357	0.66	19.74	18.09	0.17
Fuga	24	Max WS	TR_200 1H	13.78	246.84	249.44	248.41	249.66	0.005930	2.06	6.68	2.88	0.43
Fuga	24	Max WS	TR_200 2H	14.29	246.84	249.63	248.45	249.83	0.005218	1.97	7.24	2.90	0.40
Fuga	24	Max WS	TR_200 3H	14.30	246.84	249.67	248.44	249.87	0.005022	1.94	7.36	2.90	0.39
Fuga	24	Max WS	TR_200 4H	14.25	246.84	249.69	248.44	249.88	0.004917	1.93	7.40	2.90	0.38
Fuga	24	Max WS	TR_200 6H	14.29	246.84	249.66	248.45	249.86	0.005071	1.95	7.32	2.90	0.39
Fuga	24	Max WS	TR_200 8H	14.29	246.84	249.64	248.45	249.84	0.005184	1.97	7.26	2.90	0.40
Fuga	24	Max WS	TR_200 12H	14.24	246.84	249.59	248.44	249.80	0.005398	2.00	7.12	2.89	0.41
Fuga	24	Max WS	TR_30 1H	7.25	246.84	248.87	247.93	248.98	0.003301	1.43	5.06	2.82	0.34
Fuga	24	Max WS	TR_30 2H	11.47	246.84	249.27	248.25	249.45	0.004956	1.85	6.20	2.86	0.40
Fuga	24	Max WS	TR_30 3H	12.84	246.84	249.40	248.35	249.59	0.005375	1.96	6.56	2.87	0.41
Fuga	24	Max WS	TR_30 4H	13.49	246.84	249.43	248.39	249.64	0.005749	2.03	6.65	2.88	0.43
Fuga	24	Max WS	TR_30 6H	13.92	246.84	249.44	248.42	249.67	0.006014	2.08	6.70	2.88	0.44
Fuga	24	Max WS	TR_30 8H	13.68	246.84	249.44	248.40	249.65	0.005856	2.05	6.67	2.88	0.43
Fuga	24	Max WS	TR_30 12H	12.82	246.84	249.40	248.34	249.59	0.005350	1.95	6.57	2.87	0.41
Fuga	23.5			Bridge									
Fuga	23	Max WS	TR_200 1H	13.76	246.99	249.38	248.42	249.60	0.003600	2.09	6.59	5.17	0.44
Fuga	23	Max WS	TR_200 2H	14.26	246.99	249.41	248.46	249.64	0.003731	2.14	6.68	5.21	0.45
Fuga	23	Max WS	TR_200 3H	14.29	246.99	249.43	248.46	249.66	0.003678	2.13	6.73	5.23	0.45
Fuga	23	Max WS	TR_200 4H	14.25	246.99	249.44	248.46	249.66	0.003607	2.11	6.76	5.24	0.44
Fuga	23	Max WS	TR_200 6H	14.29	246.99	249.42	248.46	249.65	0.003692	2.13	6.71	5.22	0.45
Fuga	23	Max WS	TR_200 8H	14.29	246.99	249.41	248.46	249.65	0.003732	2.14	6.69	5.21	0.45
Fuga	23	Max WS	TR_200 12H	14.24	246.99	249.40	248.46	249.63	0.003770	2.14	6.65	5.20	0.45
Fuga	23	Max WS	TR_30 1H	7.25	246.99	248.86	247.95	248.96	0.002061	1.43	5.07	4.62	0.34
Fuga	23	Max WS	TR_30 2H	11.47	246.99	249.23	248.27	249.41	0.003004	1.86	6.16	5.01	0.41
Fuga	23	Max WS	TR_30 3H	12.84	246.99	249.35	248.37	249.55	0.003251	1.97	6.50	5.14	0.42
Fuga	23	Max WS	TR_30 4H	13.49	246.99	249.37	248.41	249.59	0.003495	2.05	6.57	5.17	0.44
Fuga	23	Max WS	TR_30 6H	13.89	246.99	249.38	248.44	249.61	0.003651	2.10	6.60	5.18	0.45
Fuga	23	Max WS	TR_30 8H	13.67	246.99	249.38	248.42	249.60	0.003559	2.08	6.59	5.17	0.44
Fuga	23	Max WS	TR_30 12H	12.82	246.99	249.35	248.36	249.55	0.003234	1.97	6.51	5.14	0.42
Fuga	22	Max WS	TR_200 1H	13.89	246.93	249.51	248.37	249.54	0.000499	0.75	18.64	13.69	0.20
Fuga	22	Max WS	TR_200 2H	14.47	246.93	249.54	248.39	249.57	0.000501	0.76	19.13	14.07	0.20
Fuga	22	Max WS	TR_200 3H	14.54	246.93	249.56	248.39	249.59	0.000491	0.75	19.33	14.22	0.20
Fuga	22	Max WS	TR_200 4H	14.51	246.93	249.56	248.39	249.59	0.000485	0.75	19.38	14.26	0.20
Fuga	22	Max WS	TR_200 6H	14.51	246.93	249.55	248.39	249.58	0.000493	0.75	19.28	14.18	0.20
Fuga	22	Max WS	TR_200 8H	14.48	246.93	249.55	248.39	249.58	0.000499	0.76	19.17	14.10	0.20
Fuga	22	Max WS	TR_200 12H	14.39	246.93	249.53	248.38	249.56	0.000506	0.76	19.00	13.97	0.20

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	22	Max WS	TR_30 1H	7.29	246.93	248.90	247.88	248.93	0.000594	0.65	11.22	11.23	0.21
Fuga	22	Max WS	TR_30 2H	11.53	246.93	249.33	248.14	249.36	0.000503	0.71	16.35	12.70	0.20
Fuga	22	Max WS	TR_30 3H	12.92	246.93	249.47	248.34	249.49	0.000474	0.72	18.06	13.23	0.19
Fuga	22	Max WS	TR_30 4H	13.59	246.93	249.50	248.36	249.53	0.000489	0.74	18.49	13.57	0.20
Fuga	22	Max WS	TR_30 6H	14.04	246.93	249.51	248.37	249.54	0.000503	0.75	18.72	13.75	0.20
Fuga	22	Max WS	TR_30 8H	13.78	246.93	249.51	248.37	249.53	0.000494	0.74	18.60	13.66	0.20
Fuga	22	Max WS	TR_30 12H	12.90	246.93	249.47	248.34	249.49	0.000472	0.71	18.08	13.24	0.19
Fuga	21.5	Max WS	TR_200 1H	13.97	246.95	249.50	248.31	249.53	0.000453	0.73	19.16	15.27	0.19
Fuga	21.5	Max WS	TR_200 2H	14.61	246.95	249.53	248.33	249.56	0.000460	0.75	19.71	16.22	0.20
Fuga	21.5	Max WS	TR_200 3H	14.72	246.95	249.55	248.34	249.58	0.000454	0.75	19.93	16.59	0.19
Fuga	21.5	Max WS	TR_200 4H	14.70	246.95	249.55	248.33	249.58	0.000449	0.74	20.00	16.69	0.19
Fuga	21.5	Max WS	TR_200 6H	14.68	246.95	249.55	248.33	249.57	0.000454	0.75	19.88	16.50	0.19
Fuga	21.5	Max WS	TR_200 8H	14.62	246.95	249.54	248.33	249.57	0.000458	0.75	19.75	16.28	0.19
Fuga	21.5	Max WS	TR_200 12H	14.50	246.95	249.53	248.32	249.55	0.000463	0.75	19.56	15.96	0.20
Fuga	21.5	Max WS	TR_30 1H	7.32	246.95	248.89	247.87	248.91	0.000517	0.63	11.67	11.18	0.20
Fuga	21.5	Max WS	TR_30 2H	11.58	246.95	249.32	248.23	249.35	0.000456	0.69	16.79	12.60	0.19
Fuga	21.5	Max WS	TR_30 3H	12.98	246.95	249.46	248.28	249.48	0.000428	0.70	18.54	14.13	0.19
Fuga	21.5	Max WS	TR_30 4H	13.66	246.95	249.49	248.30	249.52	0.000443	0.72	18.99	14.97	0.19
Fuga	21.5	Max WS	TR_30 6H	14.12	246.95	249.51	248.31	249.53	0.000457	0.74	19.24	15.42	0.19
Fuga	21.5	Max WS	TR_30 8H	13.86	246.95	249.50	248.30	249.52	0.000448	0.73	19.12	15.20	0.19
Fuga	21.5	Max WS	TR_30 12H	12.96	246.95	249.46	248.28	249.48	0.000426	0.70	18.55	14.15	0.19
Fuga	21.42			Lat Struct									
Fuga	21	Max WS	TR_200 1H	13.94	246.96	249.49	248.24	249.52	0.000405	0.71	20.08	17.00	0.18
Fuga	21	Max WS	TR_200 2H	14.50	246.96	249.53	248.26	249.56	0.000407	0.72	20.69	17.06	0.18
Fuga	21	Max WS	TR_200 3H	14.59	246.96	249.54	248.26	249.57	0.000399	0.72	20.93	17.08	0.18
Fuga	21	Max WS	TR_200 4H	14.57	246.96	249.55	248.26	249.57	0.000395	0.72	21.00	17.09	0.18
Fuga	21	Max WS	TR_200 6H	14.55	246.96	249.54	248.26	249.57	0.000400	0.72	20.87	17.08	0.18
Fuga	21	Max WS	TR_200 8H	14.50	246.96	249.53	248.26	249.56	0.000404	0.72	20.73	17.06	0.18
Fuga	21	Max WS	TR_200 12H	14.41	246.96	249.52	248.26	249.55	0.000410	0.72	20.52	17.04	0.19
Fuga	21	Max WS	TR_30 1H	7.34	246.96	248.89	247.84	248.91	0.000454	0.60	12.14	11.13	0.18
Fuga	21	Max WS	TR_30 2H	11.62	246.96	249.32	248.17	249.34	0.000412	0.67	17.26	13.26	0.18
Fuga	21	Max WS	TR_30 3H	13.02	246.96	249.45	248.22	249.47	0.000386	0.69	19.36	16.94	0.18
Fuga	21	Max WS	TR_30 4H	13.65	246.96	249.48	248.24	249.51	0.000397	0.70	19.90	16.99	0.18
Fuga	21	Max WS	TR_30 6H	14.07	246.96	249.50	248.24	249.53	0.000407	0.72	20.18	17.01	0.18
Fuga	21	Max WS	TR_30 8H	13.83	246.96	249.49	248.24	249.52	0.000401	0.71	20.04	17.00	0.18
Fuga	21	Max WS	TR_30 12H	13.00	246.96	249.45	248.21	249.48	0.000384	0.68	19.38	16.94	0.18
Fuga	20	Max WS	TR_200 1H	13.69	246.80	249.42	248.21	249.45	0.000420	0.72	19.36	15.59	0.19
Fuga	20	Max WS	TR_200 2H	13.44	246.80	249.47	248.18	249.50	0.000362	0.68	20.18	16.61	0.17
Fuga	20	Max WS	TR_200 3H	13.12	246.80	249.49	248.15	249.52	0.000329	0.65	20.55	17.05	0.17
Fuga	20	Max WS	TR_200 4H	12.95	246.80	249.50	248.05	249.52	0.000315	0.64	20.67	17.19	0.16
Fuga	20	Max WS	TR_200 6H	13.13	246.80	249.49	248.15	249.51	0.000332	0.66	20.47	16.96	0.17
Fuga	20	Max WS	TR_200 8H	13.32	246.80	249.48	248.17	249.50	0.000352	0.67	20.26	16.70	0.17
Fuga	20	Max WS	TR_200 12H	13.55	246.80	249.46	248.20	249.48	0.000379	0.69	19.95	16.32	0.18
Fuga	20	Max WS	TR_30 1H	7.61	246.80	248.78	247.73	248.81	0.000628	0.67	11.29	11.16	0.21
Fuga	20	Max WS	TR_30 2H	12.03	246.80	249.23	248.00	249.26	0.000516	0.72	16.63	13.07	0.20
Fuga	20	Max WS	TR_30 3H	13.36	246.80	249.37	248.18	249.40	0.000450	0.72	18.60	14.57	0.19
Fuga	20	Max WS	TR_30 4H	13.61	246.80	249.41	248.20	249.44	0.000429	0.72	19.16	15.32	0.19
Fuga	20	Max WS	TR_30 6H	13.68	246.80	249.43	248.20	249.46	0.000412	0.71	19.49	15.75	0.18
Fuga	20	Max WS	TR_30 8H	13.63	246.80	249.42	248.20	249.45	0.000419	0.71	19.33	15.54	0.19
Fuga	20	Max WS	TR_30 12H	13.33	246.80	249.37	248.17	249.40	0.000446	0.72	18.62	14.60	0.19
Fuga	19	Max WS	TR_200 1H	14.42	246.60	249.35	247.71	249.37	0.000372	0.73	19.78	10.92	0.17
Fuga	19	Max WS	TR_200 2H	14.75	246.60	249.40	247.73	249.43	0.000360	0.72	20.36	11.02	0.17
Fuga	19	Max WS	TR_200 3H	14.84	246.60	249.42	247.73	249.45	0.000352	0.72	20.61	11.07	0.17
Fuga	19	Max WS	TR_200 4H	14.79	246.60	249.43	247.73	249.46	0.000345	0.71	20.70	11.08	0.17
Fuga	19	Max WS	TR_200 6H	14.70	246.60	249.42	247.72	249.45	0.000347	0.71	20.58	11.06	0.17
Fuga	19	Max WS	TR_200 8H	14.66	246.60	249.41	247.72	249.43	0.000352	0.72	20.43	11.03	0.17
Fuga	19	Max WS	TR_200 12H	14.58	246.60	249.39	247.72	249.41	0.000359	0.72	20.21	11.00	0.17
Fuga	19	Max WS	TR_30 1H	7.88	246.60	248.71	247.40	248.73	0.000348	0.60	13.20	9.65	0.16
Fuga	19	Max WS	TR_30 2H	12.45	246.60	249.15	247.63	249.18	0.000380	0.70	17.67	10.53	0.17
Fuga	19	Max WS	TR_30 3H	13.92	246.60	249.30	247.69	249.32	0.000376	0.72	19.22	10.81	0.17
Fuga	19	Max WS	TR_30 4H	14.29	246.60	249.33	247.71	249.36	0.000373	0.73	19.63	10.89	0.17
Fuga	19	Max WS	TR_30 6H	14.45	246.60	249.36	247.71	249.38	0.000369	0.73	19.88	10.94	0.17
Fuga	19	Max WS	TR_30 8H	14.34	246.60	249.35	247.71	249.37	0.000369	0.73	19.76	10.91	0.17
Fuga	19	Max WS	TR_30 12H	13.89	246.60	249.30	247.69	249.32	0.000373	0.72	19.24	10.82	0.17
Fuga	18	Max WS	TR_200 1H	14.42	246.33	249.07	247.78	249.21	0.002985	1.66	8.70	3.72	0.35
Fuga	18	Max WS	TR_200 2H	14.75	246.33	249.13	247.80	249.27	0.002945	1.66	8.91	3.73	0.34
Fuga	18	Max WS	TR_200 3H	14.84	246.33	249.15	247.81	249.29	0.002897	1.65	9.01	3.74	0.34
Fuga	18	Max WS	TR_200 4H	14.79	246.33	249.17	247.80	249.30	0.002835	1.63	9.07	3.74	0.33
Fuga	18	Max WS	TR_200 6H	14.70	246.33	249.16	247.80	249.29	0.002836	1.63	9.02	3.74	0.34
Fuga	18	Max WS	TR_200 8H	14.66	246.33	249.14	247.79	249.28	0.002867	1.64	8.96	3.74	0.34
Fuga	18	Max WS	TR_200 12H	14.58	246.33	249.12	247.79	249.25	0.002907	1.64	8.87	3.73	0.34
Fuga	18	Max WS	TR_30 1H	7.88	246.33	248.54	247.36	248.61	0.001687	1.16	6.79	3.57	0.27
Fuga	18	Max WS	TR_30 2H	12.44	246.33	248.90	247.66	249.02	0.002694	1.54	8.07	3.67	0.33
Fuga	18	Max WS	TR_30 3H	13.92	246.33	249.03	247.75	249.16	0.002926	1.63	8.53	3.70	0.34
Fuga	18	Max WS	TR_30 4H	14.28	246.33	249.06	247.77	249.20	0.002969	1.65	8.66	3.71	0.34
Fuga	18	Max WS	TR_30 6H	14.45	246.33	249.08	247.78	249.22	0.002961	1.65	8.75	3.72	0.34
Fuga	18	Max WS	TR_30 8H	14.33	246.33	249.07	247.78	249.21	0.002942	1.64	8.71	3.72	0.34
Fuga	18	Max WS	TR_30 12H	13.89	246.33	249.03	247.75	249.16	0.002899	1.62	8.55	3.71	0.34
Fuga	17.9			Bridge									

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	17.8	Max WS	TR_200 1H	14.42	246.33	248.72	247.78	248.91	0.004499	1.94	7.41	3.62	0.43
Fuga	17.8	Max WS	TR_200 2H	14.75	246.33	248.78	247.81	248.97	0.004386	1.94	7.62	3.64	0.43
Fuga	17.8	Max WS	TR_200 3H	14.84	246.33	248.81	247.81	249.00	0.004253	1.91	7.75	3.65	0.42
Fuga	17.8	Max WS	TR_200 4H	14.79	246.33	248.84	247.80	249.02	0.004085	1.88	7.85	3.65	0.41
Fuga	17.8	Max WS	TR_200 6H	14.70	246.33	248.83	247.80	249.01	0.004089	1.88	7.81	3.65	0.41
Fuga	17.8	Max WS	TR_200 8H	14.66	246.33	248.81	247.79	248.99	0.004169	1.89	7.74	3.64	0.42
Fuga	17.8	Max WS	TR_200 12H	14.58	246.33	248.78	247.79	248.96	0.004277	1.91	7.63	3.64	0.42
Fuga	17.8	Max WS	TR_30 1H	7.87	246.33	248.42	247.36	248.50	0.002003	1.24	6.35	3.54	0.30
Fuga	17.8	Max WS	TR_30 2H	12.44	246.33	248.63	247.66	248.78	0.003776	1.76	7.08	3.59	0.40
Fuga	17.8	Max WS	TR_30 3H	13.92	246.33	248.69	247.75	248.87	0.004352	1.90	7.31	3.61	0.43
Fuga	17.8	Max WS	TR_30 4H	14.28	246.33	248.71	247.77	248.90	0.004457	1.93	7.39	3.62	0.43
Fuga	17.8	Max WS	TR_30 6H	14.44	246.33	248.74	247.78	248.93	0.004421	1.93	7.48	3.62	0.43
Fuga	17.8	Max WS	TR_30 8H	14.31	246.33	248.73	247.78	248.92	0.004358	1.92	7.46	3.62	0.43
Fuga	17.8	Max WS	TR_30 12H	13.88	246.33	248.70	247.75	248.88	0.004263	1.89	7.35	3.61	0.42
Fuga	17.7	Max WS	TR_200 1H	14.42	246.41	248.80	247.52	248.91	0.002119	1.43	10.07	4.35	0.30
Fuga	17.7	Max WS	TR_200 2H	14.75	246.41	248.86	247.53	248.96	0.002083	1.43	10.31	4.35	0.30
Fuga	17.7	Max WS	TR_200 3H	14.84	246.41	248.89	247.54	249.00	0.002034	1.42	10.45	4.35	0.29
Fuga	17.7	Max WS	TR_200 4H	14.79	246.41	248.92	247.53	249.02	0.001971	1.40	10.55	4.35	0.29
Fuga	17.7	Max WS	TR_200 6H	14.70	246.41	248.91	247.53	249.01	0.001965	1.40	10.52	4.35	0.29
Fuga	17.7	Max WS	TR_200 8H	14.66	246.41	248.89	247.53	248.99	0.001996	1.41	10.43	4.35	0.29
Fuga	17.7	Max WS	TR_200 12H	14.58	246.41	248.86	247.52	248.96	0.002037	1.41	10.31	4.35	0.29
Fuga	17.7	Max WS	TR_30 1H	7.87	246.41	248.46	247.17	248.50	0.000974	0.92	8.56	4.34	0.21
Fuga	17.7	Max WS	TR_30 2H	12.44	246.41	248.70	247.42	248.78	0.001792	1.30	9.60	4.35	0.28
Fuga	17.7	Max WS	TR_30 3H	13.92	246.41	248.77	247.50	248.87	0.002050	1.40	9.93	4.35	0.30
Fuga	17.7	Max WS	TR_30 4H	14.28	246.41	248.80	247.51	248.90	0.002099	1.42	10.03	4.35	0.30
Fuga	17.7	Max WS	TR_30 6H	14.44	246.41	248.82	247.52	248.92	0.002090	1.43	10.13	4.35	0.30
Fuga	17.7	Max WS	TR_30 8H	14.31	246.41	248.82	247.51	248.92	0.002062	1.41	10.12	4.35	0.30
Fuga	17.7	Max WS	TR_30 12H	13.88	246.41	248.78	247.49	248.88	0.002014	1.39	9.97	4.35	0.29
Fuga	17.5			Bridge									
Fuga	17	Max WS	TR_200 1H	14.42	246.41	248.71	247.52	248.83	0.002361	1.49	9.67	4.35	0.32
Fuga	17	Max WS	TR_200 2H	14.75	246.41	248.77	247.53	248.88	0.002310	1.49	9.91	4.35	0.31
Fuga	17	Max WS	TR_200 3H	14.84	246.41	248.80	247.54	248.92	0.002244	1.47	10.07	4.35	0.31
Fuga	17	Max WS	TR_200 4H	14.79	246.41	248.83	247.53	248.94	0.002162	1.45	10.19	4.35	0.30
Fuga	17	Max WS	TR_200 6H	14.70	246.41	248.82	247.53	248.93	0.002157	1.45	10.15	4.35	0.30
Fuga	17	Max WS	TR_200 8H	14.66	246.41	248.80	247.52	248.91	0.002198	1.46	10.06	4.35	0.31
Fuga	17	Max WS	TR_200 12H	14.58	246.41	248.77	247.52	248.88	0.002252	1.47	9.92	4.35	0.31
Fuga	17	Max WS	TR_30 1H	7.87	246.41	248.42	247.17	248.46	0.001026	0.94	8.39	4.34	0.22
Fuga	17	Max WS	TR_30 2H	12.44	246.41	248.62	247.42	248.71	0.001966	1.34	9.27	4.34	0.29
Fuga	17	Max WS	TR_30 3H	13.92	246.41	248.68	247.49	248.79	0.002277	1.46	9.54	4.35	0.31
Fuga	17	Max WS	TR_30 4H	14.28	246.41	248.71	247.51	248.82	0.002334	1.48	9.64	4.35	0.32
Fuga	17	Max WS	TR_30 6H	14.44	246.41	248.73	247.52	248.84	0.002321	1.48	9.74	4.35	0.32
Fuga	17	Max WS	TR_30 8H	14.31	246.41	248.73	247.51	248.84	0.002287	1.47	9.73	4.35	0.31
Fuga	17	Max WS	TR_30 12H	13.88	246.41	248.70	247.49	248.80	0.002229	1.45	9.60	4.35	0.31
Fuga	16	Max WS	TR_200 1H	15.15	245.72	248.59	247.26	248.61	0.000282	0.60	25.09	16.28	0.16
Fuga	16	Max WS	TR_200 2H	16.04	245.72	248.65	247.28	248.67	0.000285	0.62	26.00	16.48	0.16
Fuga	16	Max WS	TR_200 3H	16.59	245.72	248.68	247.30	248.70	0.000286	0.62	26.58	16.98	0.16
Fuga	16	Max WS	TR_200 4H	16.95	245.72	248.71	247.31	248.73	0.000283	0.63	27.04	17.66	0.16
Fuga	16	Max WS	TR_200 6H	16.77	245.72	248.70	247.30	248.72	0.000281	0.62	26.90	17.46	0.16
Fuga	16	Max WS	TR_200 8H	16.42	245.72	248.68	247.29	248.70	0.000281	0.62	26.55	16.93	0.16
Fuga	16	Max WS	TR_200 12H	15.97	245.72	248.65	247.28	248.67	0.000281	0.61	26.06	16.49	0.16
Fuga	16	Max WS	TR_30 1H	8.15	245.72	248.36	246.85	248.37	0.000129	0.38	21.39	15.47	0.10
Fuga	16	Max WS	TR_30 2H	12.90	245.72	248.52	247.20	248.53	0.000235	0.54	23.89	16.02	0.14
Fuga	16	Max WS	TR_30 3H	14.51	245.72	248.57	247.24	248.59	0.000270	0.59	24.69	16.20	0.15
Fuga	16	Max WS	TR_30 4H	14.99	245.72	248.59	247.26	248.61	0.000279	0.60	25.00	16.27	0.15
Fuga	16	Max WS	TR_30 6H	15.34	245.72	248.61	247.27	248.63	0.000280	0.60	25.38	16.35	0.15
Fuga	16	Max WS	TR_30 8H	15.24	245.72	248.61	247.26	248.63	0.000277	0.60	25.35	16.34	0.15
Fuga	16	Max WS	TR_30 12H	14.63	245.72	248.58	247.25	248.60	0.000268	0.59	24.91	16.25	0.15
Fuga	15	Max WS	TR_200 1H	16.03	245.42	248.54	246.73	248.56	0.000148	0.60	26.70	16.85	0.12
Fuga	15	Max WS	TR_200 2H	17.59	245.42	248.59	246.78	248.61	0.000166	0.65	27.25	17.01	0.13
Fuga	15	Max WS	TR_200 3H	18.68	245.42	248.62	246.81	248.65	0.000180	0.68	27.60	17.10	0.14
Fuga	15	Max WS	TR_200 4H	19.53	245.42	248.65	246.83	248.67	0.000191	0.70	27.85	17.17	0.14
Fuga	15	Max WS	TR_200 6H	19.24	245.42	248.64	246.82	248.66	0.000187	0.69	27.78	17.16	0.14
Fuga	15	Max WS	TR_200 8H	18.54	245.42	248.62	246.80	248.64	0.000178	0.67	27.58	17.10	0.14
Fuga	15	Max WS	TR_200 12H	17.62	245.42	248.60	246.78	248.62	0.000166	0.65	27.29	17.02	0.13
Fuga	15	Max WS	TR_30 1H	8.48	245.42	248.34	246.45	248.35	0.000056	0.35	24.41	16.19	0.08
Fuga	15	Max WS	TR_30 2H	13.44	245.42	248.48	246.65	248.49	0.000114	0.52	25.99	16.64	0.11
Fuga	15	Max WS	TR_30 3H	15.22	245.42	248.52	246.71	248.54	0.000137	0.58	26.46	16.78	0.12
Fuga	15	Max WS	TR_30 4H	15.84	245.42	248.54	246.72	248.56	0.000146	0.59	26.64	16.83	0.12
Fuga	15	Max WS	TR_30 6H	16.44	245.42	248.56	246.74	248.58	0.000152	0.61	26.87	16.90	0.13
Fuga	15	Max WS	TR_30 8H	16.35	245.42	248.56	246.74	248.58	0.000151	0.61	26.86	16.89	0.13
Fuga	15	Max WS	TR_30 12H	15.53	245.42	248.53	246.72	248.55	0.000141	0.58	26.60	16.82	0.12
Fuga	14.5			Bridge									
Fuga	14	Max WS	TR_200 1H	16.03	245.38	248.53	246.68	248.54	0.000140	0.59	27.15	18.01	0.12
Fuga	14	Max WS	TR_200 2H	17.59	245.38	248.57	246.72	248.59	0.000158	0.64	27.65	18.28	0.13
Fuga	14	Max WS	TR_200 3H	18.68	245.38	248.60	246.75	248.62	0.000172	0.67	27.95	18.44	0.14
Fuga	14	Max WS	TR_200 4H	19.53	245.38	248.62	246.77	248.64	0.000183	0.69	28.17	18.55	0.14
Fuga	14	Max WS	TR_200 6H	19.24	245.38	248.61	246.77	248.64	0.000179	0.68	28.11	18.52	0.14
Fuga	14	Max WS	TR_200 8H	18.54	245.38	248.60	246.75	248.62	0.000170	0.66	27.94	18.43	0.13

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	14	Max WS	TR_200 12H	17.62	245.38	248.57	246.72	248.60	0.000158	0.64	27.69	18.30	0.13
Fuga	14	Max WS	TR_30 1H	8.48	245.38	248.34	246.40	248.35	0.000051	0.34	25.05	16.89	0.07
Fuga	14	Max WS	TR_30 2H	13.44	245.38	248.47	246.60	248.48	0.000107	0.51	26.50	17.66	0.11
Fuga	14	Max WS	TR_30 3H	15.22	245.38	248.51	246.66	248.52	0.000129	0.57	26.93	17.89	0.12
Fuga	14	Max WS	TR_30 4H	15.84	245.38	248.52	246.67	248.54	0.000137	0.58	27.10	17.98	0.12
Fuga	14	Max WS	TR_30 6H	16.44	245.38	248.54	246.70	248.56	0.000144	0.60	27.31	18.10	0.12
Fuga	14	Max WS	TR_30 8H	16.35	245.38	248.54	246.69	248.56	0.000143	0.60	27.30	18.09	0.12
Fuga	14	Max WS	TR_30 12H	15.53	245.38	248.52	246.67	248.54	0.000133	0.57	27.06	17.96	0.12
Fuga	13	Max WS	TR_200 1H	16.56	245.13	248.51	246.69	248.53	0.000129	0.48	35.60	23.31	0.11
Fuga	13	Max WS	TR_200 2H	18.51	245.13	248.56	246.74	248.57	0.000150	0.52	36.59	24.03	0.12
Fuga	13	Max WS	TR_200 3H	19.93	245.13	248.58	246.77	248.60	0.000167	0.55	37.19	24.44	0.13
Fuga	13	Max WS	TR_200 4H	21.08	245.13	248.60	246.80	248.61	0.000182	0.58	37.61	24.73	0.13
Fuga	13	Max WS	TR_200 6H	20.72	245.13	248.59	246.79	248.61	0.000177	0.57	37.50	24.66	0.13
Fuga	13	Max WS	TR_200 8H	19.81	245.13	248.58	246.77	248.59	0.000165	0.55	37.16	24.42	0.12
Fuga	13	Max WS	TR_200 12H	18.61	245.13	248.56	246.74	248.57	0.000151	0.52	36.67	24.08	0.12
Fuga	13	Max WS	TR_30 1H	8.68	245.13	248.33	246.28	248.34	0.000048	0.28	31.70	20.29	0.07
Fuga	13	Max WS	TR_30 2H	13.76	245.13	248.46	246.61	248.47	0.000097	0.41	34.36	22.40	0.09
Fuga	13	Max WS	TR_30 3H	15.64	245.13	248.50	246.67	248.51	0.000118	0.45	35.18	23.01	0.10
Fuga	13	Max WS	TR_30 4H	16.36	245.13	248.51	246.69	248.52	0.000126	0.47	35.51	23.25	0.11
Fuga	13	Max WS	TR_30 6H	17.10	245.13	248.53	246.70	248.54	0.000134	0.49	35.93	23.55	0.11
Fuga	13	Max WS	TR_30 8H	17.02	245.13	248.53	246.70	248.54	0.000133	0.49	35.90	23.54	0.11
Fuga	13	Max WS	TR_30 12H	16.06	245.13	248.51	246.68	248.52	0.000123	0.46	35.43	23.19	0.11
Fuga	12.625	Max WS	TR_200 1H	16.76	245.09	248.51	246.62	248.52	0.000116	0.46	37.75	26.81	0.10
Fuga	12.625	Max WS	TR_200 2H	18.87	245.09	248.55	246.67	248.56	0.000137	0.51	38.90	29.52	0.11
Fuga	12.625	Max WS	TR_200 3H	20.41	245.09	248.57	246.71	248.59	0.000154	0.54	39.61	31.31	0.12
Fuga	12.625	Max WS	TR_200 4H	21.67	245.09	248.59	246.74	248.60	0.000169	0.57	40.13	32.55	0.13
Fuga	12.625	Max WS	TR_200 6H	21.28	245.09	248.58	246.73	248.60	0.000164	0.56	39.99	32.22	0.13
Fuga	12.625	Max WS	TR_200 8H	20.29	245.09	248.57	246.71	248.59	0.000152	0.54	39.58	31.24	0.12
Fuga	12.625	Max WS	TR_200 12H	18.99	245.09	248.55	246.68	248.56	0.000138	0.51	38.99	29.75	0.11
Fuga	12.625	Max WS	TR_30 1H	8.76	245.09	248.33	246.22	248.34	0.000042	0.27	33.51	22.47	0.06
Fuga	12.625	Max WS	TR_30 2H	13.89	245.09	248.45	246.53	248.46	0.000086	0.39	36.41	24.90	0.09
Fuga	12.625	Max WS	TR_30 3H	15.81	245.09	248.49	246.60	248.50	0.000106	0.44	37.29	25.71	0.10
Fuga	12.625	Max WS	TR_30 4H	16.55	245.09	248.50	246.62	248.51	0.000113	0.46	37.65	26.57	0.10
Fuga	12.625	Max WS	TR_30 6H	17.35	245.09	248.52	246.64	248.53	0.000121	0.47	38.12	27.67	0.11
Fuga	12.625	Max WS	TR_30 8H	17.28	245.09	248.52	246.64	248.53	0.000120	0.47	38.11	27.63	0.11
Fuga	12.625	Max WS	TR_30 12H	16.27	245.09	248.50	246.61	248.51	0.000110	0.45	37.57	26.38	0.10
Fuga	12.62			Lat Struct									
Fuga	12.61			Lat Struct									
Fuga	12	Max WS	TR_200 1H	16.47	245.03	248.50	246.49	248.51	0.000085	0.42	44.22	40.50	0.09
Fuga	12	Max WS	TR_200 2H	18.07	245.03	248.54	246.53	248.55	0.000095	0.44	46.03	44.92	0.10
Fuga	12	Max WS	TR_200 3H	19.16	245.03	248.56	246.55	248.58	0.000102	0.46	47.07	44.92	0.10
Fuga	12	Max WS	TR_200 4H	20.02	245.03	248.58	246.57	248.59	0.000108	0.48	47.81	44.92	0.10
Fuga	12	Max WS	TR_200 6H	19.76	245.03	248.58	246.56	248.59	0.000106	0.48	47.62	44.92	0.10
Fuga	12	Max WS	TR_200 8H	19.08	245.03	248.56	246.55	248.57	0.000101	0.46	47.03	44.92	0.10
Fuga	12	Max WS	TR_200 12H	18.16	245.03	248.54	246.53	248.55	0.000095	0.45	46.15	44.92	0.10
Fuga	12	Max WS	TR_30 1H	8.88	245.03	248.33	246.15	248.33	0.000034	0.25	37.61	33.61	0.06
Fuga	12	Max WS	TR_30 2H	13.96	245.03	248.45	246.41	248.46	0.000067	0.36	42.15	39.90	0.08
Fuga	12	Max WS	TR_30 3H	15.67	245.03	248.48	246.47	248.49	0.000079	0.40	43.53	40.30	0.09
Fuga	12	Max WS	TR_30 4H	16.31	245.03	248.50	246.48	248.51	0.000084	0.41	44.07	40.46	0.09
Fuga	12	Max WS	TR_30 6H	16.94	245.03	248.51	246.50	248.52	0.000087	0.42	44.81	44.92	0.09
Fuga	12	Max WS	TR_30 8H	16.88	245.03	248.51	246.50	248.52	0.000087	0.42	44.77	44.92	0.09
Fuga	12	Max WS	TR_30 12H	16.08	245.03	248.49	246.48	248.50	0.000082	0.41	43.95	40.43	0.09
Fuga	11	Max WS	TR_200 1H	16.04	244.76	248.49	246.29	248.50	0.000072	0.39	41.80	24.54	0.08
Fuga	11	Max WS	TR_200 2H	16.82	244.76	248.53	246.31	248.54	0.000074	0.40	42.85	26.44	0.08
Fuga	11	Max WS	TR_200 3H	17.19	244.76	248.56	246.32	248.56	0.000075	0.41	43.52	28.28	0.09
Fuga	11	Max WS	TR_200 4H	17.42	244.76	248.57	246.32	248.58	0.000075	0.41	44.02	29.59	0.09
Fuga	11	Max WS	TR_200 6H	17.35	244.76	248.57	246.32	248.58	0.000075	0.41	43.89	29.25	0.09
Fuga	11	Max WS	TR_200 8H	17.17	244.76	248.56	246.32	248.56	0.000075	0.41	43.50	28.21	0.09
Fuga	11	Max WS	TR_200 12H	16.86	244.76	248.54	246.31	248.54	0.000074	0.40	42.93	26.67	0.08
Fuga	11	Max WS	TR_30 1H	9.09	244.76	248.32	245.86	248.33	0.000030	0.24	38.08	20.39	0.05
Fuga	11	Max WS	TR_30 2H	14.10	244.76	248.44	246.23	248.45	0.000060	0.35	40.58	23.26	0.08
Fuga	11	Max WS	TR_30 3H	15.47	244.76	248.47	246.27	248.48	0.000068	0.38	41.38	24.11	0.08
Fuga	11	Max WS	TR_30 4H	15.93	244.76	248.49	246.28	248.49	0.000071	0.39	41.71	24.45	0.08
Fuga	11	Max WS	TR_30 6H	16.30	244.76	248.50	246.30	248.51	0.000073	0.39	42.14	24.88	0.08
Fuga	11	Max WS	TR_30 8H	16.27	244.76	248.50	246.30	248.51	0.000072	0.39	42.12	24.87	0.08
Fuga	11	Max WS	TR_30 12H	15.79	244.76	248.48	246.28	248.49	0.000070	0.39	41.64	24.37	0.08
Fuga	10	Max WS	TR_200 1H	16.51	244.40	248.48	245.99	248.49	0.000059	0.36	45.57	19.21	0.08
Fuga	10	Max WS	TR_200 2H	17.65	244.40	248.52	246.04	248.53	0.000064	0.38	46.35	19.32	0.08
Fuga	10	Max WS	TR_200 3H	18.32	244.40	248.55	246.06	248.55	0.000067	0.39	46.81	19.39	0.08
Fuga	10	Max WS	TR_200 4H	18.80	244.40	248.56	246.07	248.57	0.000069	0.40	47.14	19.44	0.08
Fuga	10	Max WS	TR_200 6H	18.68	244.40	248.56	246.07	248.57	0.000069	0.40	47.05	19.43	0.08
Fuga	10	Max WS	TR_200 8H	18.31	244.40	248.55	246.06	248.55	0.000067	0.39	46.79	19.39	0.08
Fuga	10	Max WS	TR_200 12H	17.75	244.40	248.53	246.04	248.53	0.000065	0.38	46.41	19.33	0.08
Fuga	10	Max WS	TR_30 1H	9.27	244.40	248.32	245.56	248.32	0.000023	0.22	42.52	18.75	0.05
Fuga	10	Max WS	TR_30 2H	14.40	244.40	248.43	245.89	248.44	0.000047	0.32	44.63	19.07	0.07
Fuga	10	Max WS	TR_30 3H	15.85	244.40	248.47	245.96	248.47	0.000055	0.35	45.25	19.16	0.07
Fuga	10	Max WS	TR_30 4H	16.39	244.40	248.48	245.98	248.49	0.000058	0.36	45.50	19.20	0.07
Fuga	10	Max WS	TR_30 6H	16.89	244.40	248.50	246.01	248.50	0.000061	0.37	45.83	19.25	0.08
Fuga	10	Max WS	TR_30 8H	16.87	244.40	248.50	246.00	248.50	0.000061	0.37	45.82	19.24	0.08

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	10	Max WS	TR_30 12H	16.28	244.40	248.48	245.98	248.48	0.000058	0.36	45.44	19.19	0.07
Fuga	9	Max WS	TR_200 1H	16.51	244.26	248.45	245.67	248.49	0.000178	0.88	18.81	22.42	0.14
Fuga	9	Max WS	TR_200 2H	17.65	244.26	248.48	245.72	248.53	0.000198	0.93	18.99	22.98	0.15
Fuga	9	Max WS	TR_200 3H	18.31	244.26	248.50	245.74	248.55	0.000209	0.96	19.09	23.31	0.16
Fuga	9	Max WS	TR_200 4H	18.80	244.26	248.52	245.76	248.57	0.000217	0.98	19.17	23.63	0.16
Fuga	9	Max WS	TR_200 6H	18.68	244.26	248.52	245.76	248.56	0.000215	0.98	19.15	23.51	0.16
Fuga	9	Max WS	TR_200 8H	18.31	244.26	248.50	245.75	248.55	0.000209	0.96	19.09	23.29	0.16
Fuga	9	Max WS	TR_200 12H	17.75	244.26	248.49	245.72	248.53	0.000199	0.93	19.00	23.02	0.15
Fuga	9	Max WS	TR_30 1H	9.27	244.26	248.31	245.32	248.32	0.000064	0.51	18.13	20.32	0.09
Fuga	9	Max WS	TR_30 2H	14.40	244.26	248.41	245.58	248.44	0.000141	0.77	18.60	21.79	0.13
Fuga	9	Max WS	TR_30 3H	15.85	244.26	248.43	245.64	248.47	0.000166	0.85	18.74	22.21	0.14
Fuga	9	Max WS	TR_30 4H	16.39	244.26	248.44	245.67	248.48	0.000176	0.87	18.79	22.38	0.14
Fuga	9	Max WS	TR_30 6H	16.89	244.26	248.46	245.69	248.50	0.000185	0.90	18.87	22.61	0.15
Fuga	9	Max WS	TR_30 8H	16.87	244.26	248.46	245.69	248.50	0.000184	0.89	18.86	22.60	0.15
Fuga	9	Max WS	TR_30 12H	16.27	244.26	248.44	245.66	248.48	0.000174	0.87	18.78	22.33	0.14
Fuga	8.5			Bridge									
Fuga	8	Max WS	TR_200 1H	3.67	244.33	248.25	244.81	248.25	0.000009	0.20	18.74	12.15	0.03
Fuga	8	Max WS	TR_200 2H	8.04	244.33	248.25	245.08	248.25	0.000041	0.43	18.74	12.15	0.07
Fuga	8	Max WS	TR_200 3H	11.07	244.33	248.24	245.23	248.26	0.000078	0.59	18.73	12.14	0.10
Fuga	8	Max WS	TR_200 4H	10.83	244.33	248.24	245.22	248.26	0.000074	0.58	18.73	12.14	0.09
Fuga	8	Max WS	TR_200 6H	7.49	244.33	248.24	245.05	248.25	0.000036	0.40	18.72	12.14	0.07
Fuga	8	Max WS	TR_200 8H	3.43	244.33	248.24	244.79	248.24	0.000007	0.18	18.72	12.14	0.03
Fuga	8	Max WS	TR_200 12H	5.85	244.33	248.24	244.95	248.25	0.000022	0.31	18.72	12.14	0.05
Fuga	8	Max WS	TR_30 1H	1.05	244.33	248.24	244.57	248.24	0.000001	0.06	18.72	12.14	0.01
Fuga	8	Max WS	TR_30 2H	2.57	244.33	248.24	244.72	248.24	0.000004	0.14	18.72	12.14	0.02
Fuga	8	Max WS	TR_30 3H	4.48	244.33	248.24	244.87	248.25	0.000013	0.24	18.73	12.14	0.04
Fuga	8	Max WS	TR_30 4H	7.57	244.33	248.24	245.05	248.25	0.000036	0.40	18.72	12.14	0.07
Fuga	8	Max WS	TR_30 6H	6.72	244.33	248.24	245.00	248.25	0.000029	0.36	18.72	12.14	0.06
Fuga	8	Max WS	TR_30 8H	2.62	244.33	248.24	244.73	248.24	0.000004	0.14	18.72	12.14	0.02
Fuga	8	Max WS	TR_30 12H	2.60	244.33	248.24	244.72	248.24	0.000004	0.14	18.72	12.14	0.02
Fuga	7.125	Max WS	TR_200 1H	14.88	243.91	248.25	245.26	248.26	0.000039	0.32	51.87	49.04	0.06
Fuga	7.125	Max WS	TR_200 2H	15.98	243.91	248.25	245.30	248.26	0.000045	0.34	52.08	49.29	0.07
Fuga	7.125	Max WS	TR_200 3H	16.27	243.91	248.26	245.32	248.26	0.000046	0.35	52.17	49.40	0.07
Fuga	7.125	Max WS	TR_200 4H	18.49	243.91	248.25	245.45	248.26	0.000060	0.39	52.10	49.31	0.08
Fuga	7.125	Max WS	TR_200 6H	18.58	243.91	248.25	245.46	248.26	0.000060	0.39	52.04	49.24	0.08
Fuga	7.125	Max WS	TR_200 8H	18.18	243.91	248.25	245.43	248.26	0.000058	0.39	51.99	49.18	0.08
Fuga	7.125	Max WS	TR_200 12H	17.72	243.91	248.25	245.41	248.26	0.000055	0.38	51.93	49.11	0.07
Fuga	7.125	Max WS	TR_30 1H	9.08	243.91	248.24	244.96	248.25	0.000015	0.19	51.53	48.64	0.04
Fuga	7.125	Max WS	TR_30 2H	13.92	243.91	248.25	245.21	248.25	0.000034	0.30	51.71	48.85	0.06
Fuga	7.125	Max WS	TR_30 3H	15.16	243.91	248.25	245.27	248.25	0.000041	0.32	51.80	48.95	0.06
Fuga	7.125	Max WS	TR_30 4H	15.00	243.91	248.25	245.26	248.25	0.000040	0.32	51.84	49.01	0.06
Fuga	7.125	Max WS	TR_30 6H	16.40	243.91	248.25	245.32	248.26	0.000047	0.35	51.87	49.04	0.07
Fuga	7.125	Max WS	TR_30 8H	16.44	243.91	248.25	245.32	248.26	0.000048	0.35	51.86	49.03	0.07
Fuga	7.125	Max WS	TR_30 12H	16.26	243.91	248.25	245.31	248.26	0.000047	0.35	51.81	48.97	0.07
Fuga	7	Max WS	TR_200 1H	15.04	243.85	248.25	245.21	248.25	0.000034	0.30	57.35	55.76	0.06
Fuga	7	Max WS	TR_200 2H	16.03	243.85	248.25	245.25	248.26	0.000039	0.32	57.58	55.89	0.06
Fuga	7	Max WS	TR_200 3H	16.29	243.85	248.26	245.26	248.26	0.000040	0.32	57.69	55.94	0.06
Fuga	7	Max WS	TR_200 4H	18.48	243.85	248.25	245.38	248.26	0.000051	0.37	57.62	55.90	0.07
Fuga	7	Max WS	TR_200 6H	18.58	243.85	248.25	245.39	248.26	0.000052	0.37	57.55	55.87	0.07
Fuga	7	Max WS	TR_200 8H	18.18	243.85	248.25	245.37	248.26	0.000050	0.36	57.48	55.83	0.07
Fuga	7	Max WS	TR_200 12H	17.72	243.85	248.25	245.34	248.26	0.000047	0.35	57.43	55.80	0.07
Fuga	7	Max WS	TR_30 1H	9.08	243.85	248.24	244.91	248.24	0.000013	0.18	56.97	55.43	0.04
Fuga	7	Max WS	TR_30 2H	13.91	243.85	248.25	245.16	248.25	0.000029	0.28	57.18	55.64	0.05
Fuga	7	Max WS	TR_30 3H	15.14	243.85	248.25	245.21	248.25	0.000035	0.30	57.28	55.72	0.06
Fuga	7	Max WS	TR_30 4H	15.03	243.85	248.25	245.21	248.25	0.000034	0.30	57.31	55.74	0.06
Fuga	7	Max WS	TR_30 6H	16.44	243.85	248.25	245.27	248.26	0.000041	0.33	57.36	55.77	0.06
Fuga	7	Max WS	TR_30 8H	16.44	243.85	248.25	245.27	248.25	0.000041	0.33	57.33	55.75	0.06
Fuga	7	Max WS	TR_30 12H	16.26	243.85	248.25	245.26	248.25	0.000040	0.33	57.28	55.72	0.06
Fuga	6	Max WS	TR_200 1H	15.49	243.68	248.25	245.03	248.25	0.000017	0.23	86.55	54.96	0.04
Fuga	6	Max WS	TR_200 2H	16.53	243.68	248.25	245.08	248.25	0.000019	0.25	86.72	54.96	0.05
Fuga	6	Max WS	TR_200 3H	17.03	243.68	248.25	245.10	248.25	0.000020	0.26	86.77	54.96	0.05
Fuga	6	Max WS	TR_200 4H	19.62	243.68	248.25	245.29	248.25	0.000027	0.30	86.72	54.96	0.05
Fuga	6	Max WS	TR_200 6H	19.47	243.68	248.25	245.29	248.25	0.000027	0.29	86.67	54.96	0.05
Fuga	6	Max WS	TR_200 8H	18.92	243.68	248.25	245.27	248.25	0.000025	0.29	86.64	54.96	0.05
Fuga	6	Max WS	TR_200 12H	18.32	243.68	248.25	245.25	248.25	0.000024	0.28	86.59	54.96	0.05
Fuga	6	Max WS	TR_30 1H	9.27	243.68	248.24	244.70	248.24	0.000006	0.14	86.28	54.96	0.03
Fuga	6	Max WS	TR_30 2H	13.85	243.68	248.24	244.95	248.25	0.000014	0.21	86.42	54.96	0.04
Fuga	6	Max WS	TR_30 3H	14.83	243.68	248.25	245.01	248.25	0.000016	0.22	86.49	54.96	0.04
Fuga	6	Max WS	TR_30 4H	15.50	243.68	248.25	245.03	248.25	0.000017	0.23	86.52	54.96	0.04
Fuga	6	Max WS	TR_30 6H	16.95	243.68	248.25	245.10	248.25	0.000020	0.26	86.55	54.96	0.05
Fuga	6	Max WS	TR_30 8H	16.85	243.68	248.25	245.10	248.25	0.000020	0.25	86.54	54.96	0.05
Fuga	6	Max WS	TR_30 12H	16.41	243.68	248.25	245.08	248.25	0.000019	0.25	86.50	54.96	0.04
Fuga	5	Max WS	TR_200 1H	13.85	243.72	248.24	245.17	248.25	0.000014	0.21	80.35	39.79	0.04
Fuga	5	Max WS	TR_200 2H	17.08	243.72	248.25	245.29	248.25	0.000021	0.26	80.43	39.79	0.05
Fuga	5	Max WS	TR_200 3H	17.90	243.72	248.25	245.31	248.25	0.000023	0.27	80.45	39.79	0.05
Fuga	5	Max WS	TR_200 4H	17.93	243.72	248.25	245.31	248.25	0.000023	0.27	80.41	39.79	0.05
Fuga	5	Max WS	TR_200 6H	17.01	243.72	248.24	245.28	248.25	0.000020	0.26	80.39	39.79	0.05
Fuga	5	Max WS	TR_200 8H	19.58	243.72	248.24	245.36	248.25	0.000027	0.29	80.37	39.79	0.05
Fuga	5	Max WS	TR_200 12H	18.84	243.72	248.24	245.34	248.25	0.000025	0.28	80.35	39.79	0.05

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)	
Fuga	5	Max WS	TR_30 1H	6.73	243.72	248.24	244.79	248.24	0.000003	0.10	80.26	39.79	0.02
Fuga	5	Max WS	TR_30 2H	10.24	243.72	248.24	245.06	248.24	0.000007	0.15	80.30	39.79	0.03
Fuga	5	Max WS	TR_30 3H	14.10	243.72	248.24	245.18	248.24	0.000014	0.21	80.33	39.79	0.04
Fuga	5	Max WS	TR_30 4H	13.54	243.72	248.24	245.16	248.25	0.000013	0.20	80.34	39.79	0.04
Fuga	5	Max WS	TR_30 6H	16.63	243.72	248.24	245.27	248.25	0.000020	0.25	80.34	39.79	0.05
Fuga	5	Max WS	TR_30 8H	17.20	243.72	248.24	245.29	248.25	0.000021	0.26	80.33	39.79	0.05
Fuga	5	Max WS	TR_30 12H	16.70	243.72	248.24	245.27	248.25	0.000020	0.25	80.32	39.79	0.05
Fuga	4	Max WS	TR_200 1H	13.88	243.64	248.24	245.03	248.24	0.000012	0.20	77.77	37.15	0.04
Fuga	4	Max WS	TR_200 2H	16.41	243.64	248.24	245.13	248.25	0.000017	0.24	77.83	37.15	0.04
Fuga	4	Max WS	TR_200 3H	17.56	243.64	248.25	245.17	248.25	0.000019	0.25	77.85	37.15	0.05
Fuga	4	Max WS	TR_200 4H	16.00	243.64	248.24	245.12	248.25	0.000016	0.23	77.81	37.15	0.04
Fuga	4	Max WS	TR_200 6H	17.15	243.64	248.24	245.16	248.25	0.000019	0.25	77.79	37.15	0.05
Fuga	4	Max WS	TR_200 8H	16.74	243.64	248.24	245.14	248.25	0.000018	0.24	77.77	37.15	0.04
Fuga	4	Max WS	TR_200 12H	16.35	243.64	248.24	245.13	248.25	0.000017	0.24	77.76	37.15	0.04
Fuga	4	Max WS	TR_30 1H	6.78	243.64	248.24	244.61	248.24	0.000003	0.10	77.70	37.15	0.02
Fuga	4	Max WS	TR_30 2H	10.32	243.64	248.24	244.83	248.24	0.000007	0.15	77.74	37.15	0.03
Fuga	4	Max WS	TR_30 3H	14.18	243.64	248.24	245.04	248.24	0.000013	0.21	77.75	37.15	0.04
Fuga	4	Max WS	TR_30 4H	13.48	243.64	248.24	245.01	248.24	0.000012	0.20	77.76	37.15	0.04
Fuga	4	Max WS	TR_30 6H	15.76	243.64	248.24	245.11	248.25	0.000016	0.23	77.76	37.15	0.04
Fuga	4	Max WS	TR_30 8H	17.30	243.64	248.24	245.16	248.25	0.000019	0.25	77.75	37.15	0.05
Fuga	4	Max WS	TR_30 12H	16.75	243.64	248.24	245.14	248.24	0.000018	0.24	77.74	37.15	0.04
Fuga	3	Max WS	TR_200 1H	4.93	243.53	248.24	244.27	248.24	0.000001	0.07	74.97	27.55	0.01
Fuga	3	Max WS	TR_200 2H	9.74	243.53	248.24	244.60	248.24	0.000005	0.15	74.97	27.55	0.02
Fuga	3	Max WS	TR_200 3H	13.51	243.53	248.24	244.75	248.24	0.000010	0.20	74.98	27.55	0.03
Fuga	3	Max WS	TR_200 4H	12.84	243.53	248.24	244.72	248.24	0.000009	0.19	74.97	27.55	0.03
Fuga	3	Max WS	TR_200 6H	11.98	243.53	248.24	244.69	248.24	0.000008	0.18	74.97	27.55	0.03
Fuga	3	Max WS	TR_200 8H	8.43	243.53	248.24	244.53	248.24	0.000004	0.13	74.97	27.55	0.02
Fuga	3	Max WS	TR_200 12H	6.56	243.53	248.24	244.40	248.24	0.000002	0.10	74.96	27.55	0.02
Fuga	3	Max WS	TR_30 1H	1.25	243.53	248.24	243.88	248.24	0.000000	0.02	74.96	27.55	0.00
Fuga	3	Max WS	TR_30 2H	3.11	243.53	248.24	244.11	248.24	0.000001	0.05	74.97	27.55	0.01
Fuga	3	Max WS	TR_30 3H	5.74	243.53	248.24	244.34	248.24	0.000002	0.09	74.97	27.55	0.01
Fuga	3	Max WS	TR_30 4H	9.18	243.53	248.24	244.57	248.24	0.000005	0.14	74.97	27.55	0.02
Fuga	3	Max WS	TR_30 6H	7.54	243.53	248.24	244.48	248.24	0.000003	0.11	74.97	27.55	0.02
Fuga	3	Max WS	TR_30 8H	2.72	243.53	248.24	244.06	248.24	0.000000	0.04	74.96	27.55	0.01
Fuga	3	Max WS	TR_30 12H	2.77	243.53	248.24	244.07	248.24	0.000000	0.04	74.97	27.55	0.01
Fuga	2	Max WS	TR_200 1H	14.37	243.62	248.24	244.27	248.24	0.000003	0.11	148.54	55.70	0.02
Fuga	2	Max WS	TR_200 2H	18.16	243.62	248.24	244.38	248.24	0.000004	0.14	148.56	55.70	0.02
Fuga	2	Max WS	TR_200 3H	19.26	243.62	248.24	244.40	248.24	0.000005	0.14	148.58	55.70	0.02
Fuga	2	Max WS	TR_200 4H	17.16	243.62	248.24	244.36	248.24	0.000004	0.13	148.56	55.70	0.02
Fuga	2	Max WS	TR_200 6H	15.38	243.62	248.24	244.30	248.24	0.000003	0.11	148.56	55.70	0.02
Fuga	2	Max WS	TR_200 8H	17.15	243.62	248.24	244.35	248.24	0.000004	0.13	148.54	55.70	0.02
Fuga	2	Max WS	TR_200 12H	16.80	243.62	248.24	244.34	248.24	0.000004	0.13	148.54	55.70	0.02
Fuga	2	Max WS	TR_30 1H	6.92	243.62	248.24	244.03	248.24	0.000001	0.05	148.51	55.69	0.01
Fuga	2	Max WS	TR_30 2H	10.69	243.62	248.24	244.16	248.24	0.000002	0.08	148.53	55.70	0.01
Fuga	2	Max WS	TR_30 3H	14.61	243.62	248.24	244.28	248.24	0.000003	0.11	148.53	55.70	0.02
Fuga	2	Max WS	TR_30 4H	14.09	243.62	248.24	244.26	248.24	0.000003	0.11	148.54	55.70	0.02
Fuga	2	Max WS	TR_30 6H	16.22	243.62	248.24	244.33	248.24	0.000003	0.12	148.54	55.70	0.02
Fuga	2	Max WS	TR_30 8H	17.85	243.62	248.24	244.37	248.24	0.000004	0.13	148.53	55.70	0.02
Fuga	2	Max WS	TR_30 12H	17.18	243.62	248.24	244.36	248.24	0.000004	0.13	148.53	55.70	0.02
Fuga	1	Max WS	TR_200 1H	0.78	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_200 2H	0.78	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_200 3H	0.78	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_200 4H	0.77	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_200 6H	0.78	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_200 8H	0.77	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_200 12H	0.78	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_30 1H	0.78	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_30 2H	0.78	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_30 3H	0.76	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_30 4H	0.77	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_30 6H	0.78	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_30 8H	0.77	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00
Fuga	1	Max WS	TR_30 12H	0.75	243.43	248.24	243.54	248.24	0.000000	0.01	155.25	49.30	0.00

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)
Fuga	69.61	Max WS	TR_200 1H	3.70	0.00	4.40	0.00					252.33	252.16	252.14	252.11	252.07
Fuga	69.61	Max WS	TR_200 2H	6.84	0.00	8.06	0.00		3.72	0.00	0.00	252.33	252.46	252.44	252.41	252.33
Fuga	69.61	Max WS	TR_200 3H	8.79	0.91	9.46	0.91		43.11	0.10	0.07	252.33	252.57	252.54	252.53	252.43
Fuga	69.61	Max WS	TR_200 4H	9.94	1.56	10.02	1.56		51.74	0.13	0.09	252.33	252.61	252.57	252.57	252.46
Fuga	69.61	Max WS	TR_200 6H	9.85	1.16	10.03	1.16		47.13	0.11	0.07	252.33	252.59	252.56	252.55	252.44
Fuga	69.61	Max WS	TR_200 8H	8.57	0.36	9.31	0.36		33.14	0.06	0.04	252.33	252.54	252.50	252.49	252.39
Fuga	69.61	Max WS	TR_200 12H	6.78	0.00	7.66	0.00					252.33	252.42	252.39	252.36	252.28
Fuga	69.61	Max WS	TR_30 1H	1.11	0.00	1.37	0.00					252.33	251.52	251.51	251.46	251.44
Fuga	69.61	Max WS	TR_30 2H	2.07	0.00	2.49	0.00					252.33	251.82	251.81	251.77	251.75
Fuga	69.61	Max WS	TR_30 3H	2.68	0.00	3.19	0.00					252.33	252.02	252.01	251.97	251.95
Fuga	69.61	Max WS	TR_30 4H	3.31	0.00	3.97	0.00					252.33	252.12	252.10	252.07	252.04
Fuga	69.61	Max WS	TR_30 6H	3.99	0.00	4.69	0.00					252.33	252.18	252.17	252.13	252.09
Fuga	69.61	Max WS	TR_30 8H	4.16	0.00	4.78	0.00					252.33	252.18	252.17	252.13	252.09
Fuga	69.61	Max WS	TR_30 12H	3.41	0.00	3.89	0.00					252.33	252.08	252.07	252.03	252.00
Fuga	67.42	Max WS	TR_200 1H	4.82	0.00	5.71	0.00					251.91	252.04	252.02	251.93	251.91
Fuga	67.42	Max WS	TR_200 2H	8.80	0.13	10.21	0.13		15.57	0.07	0.04	251.91	252.30	252.24	252.03	251.98
Fuga	67.42	Max WS	TR_200 3H	10.42	0.24	12.13	0.24		21.40	0.09	0.04	251.91	252.40	252.33	252.07	252.00
Fuga	67.42	Max WS	TR_200 4H	11.01	0.29	12.71	0.29		23.59	0.09	0.05	251.91	252.43	252.36	252.08	252.00
Fuga	67.42	Max WS	TR_200 6H	10.86	0.23	12.28	0.23		21.07	0.09	0.04	251.91	252.41	252.34	252.07	252.00
Fuga	67.42	Max WS	TR_200 8H	10.01	0.17	11.26	0.17		17.72	0.08	0.04	251.91	252.36	252.29	252.05	251.99
Fuga	67.42	Max WS	TR_200 12H	8.19	0.07	9.25	0.07		12.05	0.05	0.03	251.91	252.25	252.20	252.01	251.96
Fuga	67.42	Max WS	TR_30 1H	1.53	0.00	1.86	0.00					251.91	251.40	251.38	251.27	251.26
Fuga	67.42	Max WS	TR_30 2H	2.73	0.00	3.20	0.00					251.91	251.72	251.70	251.62	251.61
Fuga	67.42	Max WS	TR_30 3H	3.52	0.00	4.21	0.00					251.91	251.93	251.91	251.84	251.83
Fuga	67.42	Max WS	TR_30 4H	4.37	0.00	5.20	0.00					251.91	252.01	251.99	251.91	251.89
Fuga	67.42	Max WS	TR_30 6H	5.12	0.00	6.03	0.00		0.42	0.00	0.00	251.91	252.06	252.04	251.93	251.91
Fuga	67.42	Max WS	TR_30 8H	5.15	0.00	5.94	0.00					251.91	252.06	252.03	251.93	251.91
Fuga	67.42	Max WS	TR_30 12H	4.18	0.00	4.80	0.00					251.91	251.97	251.95	251.87	251.86
Fuga	67.41	Max WS	TR_200 1H	4.82	0.00	5.35	0.00					251.95	252.04	252.02	251.88	251.87
Fuga	67.41	Max WS	TR_200 2H	8.80	0.08	6.82	0.08		34.97	0.03	0.01	251.95	252.30	252.24	251.96	251.96
Fuga	67.41	Max WS	TR_200 3H	10.42	0.29	7.62	0.29		67.18	0.05	0.02	251.95	252.40	252.33	251.98	251.98
Fuga	67.41	Max WS	TR_200 4H	11.01	0.38	7.88	0.38		77.64	0.05	0.02	251.95	252.43	252.36	251.99	251.98
Fuga	67.41	Max WS	TR_200 6H	10.86	0.26	7.78	0.26		62.70	0.05	0.02	251.95	252.41	252.34	251.98	251.97
Fuga	67.41	Max WS	TR_200 8H	10.01	0.14	7.38	0.14		45.07	0.04	0.02	251.95	252.36	252.29	251.97	251.96
Fuga	67.41	Max WS	TR_200 12H	8.19	0.01	6.60	0.01		16.02	0.01	0.01	251.95	252.25	252.20	251.94	251.94
Fuga	67.41	Max WS	TR_30 1H	1.53	0.00	2.07	0.00					251.95	251.40	251.38	251.20	251.19
Fuga	67.41	Max WS	TR_30 2H	2.73	0.00	3.52	0.00					251.95	251.72	251.70	251.57	251.55
Fuga	67.41	Max WS	TR_30 3H	3.52	0.00	4.66	0.00					251.95	251.93	251.91	251.81	251.79
Fuga	67.41	Max WS	TR_30 4H	4.37	0.00	5.16	0.00					251.95	252.01	251.99	251.86	251.85
Fuga	67.41	Max WS	TR_30 6H	5.12	0.00	5.46	0.00					251.95	252.06	252.04	251.88	251.88
Fuga	67.41	Max WS	TR_30 8H	5.15	0.00	5.54	0.00					251.95	252.06	252.03	251.87	251.87
Fuga	67.41	Max WS	TR_30 12H	4.18	0.00	5.11	0.00					251.95	251.97	251.95	251.83	251.81
Fuga	65.92	Max WS	TR_200 1H	5.71	1.21	5.56	1.21		124.57	0.08	0.04	251.79	251.93	251.91	251.85	251.84
Fuga	65.92	Max WS	TR_200 2H	10.21	5.91	5.71	5.91		158.48	0.16	0.10	251.79	252.03	251.98	251.94	251.93
Fuga	65.92	Max WS	TR_200 3H	12.13	7.79	5.71	7.79		165.68	0.19	0.12	251.79	252.07	252.00	251.97	251.95
Fuga	65.92	Max WS	TR_200 4H	12.71	8.22	5.77	8.22		167.08	0.19	0.12	251.79	252.08	252.00	251.97	251.96
Fuga	65.92	Max WS	TR_200 6H	12.28	7.50	5.94	7.50		164.14	0.18	0.12	251.79	252.07	252.00	251.96	251.94
Fuga	65.92	Max WS	TR_200 8H	11.26	6.47	5.97	6.47		160.16	0.17	0.11	251.79	252.05	251.99	251.95	251.93
Fuga	65.92	Max WS	TR_200 12H	9.25	4.53	5.93	4.53		152.07	0.15	0.09	251.79	252.01	251.96	251.92	251.90
Fuga	65.92	Max WS	TR_30 1H	1.86	0.00	2.25	0.00					251.79	251.27	251.26	251.13	251.12
Fuga	65.92	Max WS	TR_30 2H	3.20	0.00	3.80	0.00					251.79	251.62	251.61	251.52	251.50
Fuga	65.92	Max WS	TR_30 3H	4.21	0.00	5.04	0.00		7.13	0.00	0.00	251.79	251.84	251.83	251.77	251.76
Fuga	65.92	Max WS	TR_30 4H	5.20	0.74	5.46	0.74		99.06	0.06	0.03	251.79	251.91	251.89	251.84	251.82
Fuga	65.92	Max WS	TR_30 6H	6.03	1.47	5.61	1.47		134.47	0.09	0.04	251.79	251.93	251.91	251.86	251.84
Fuga	65.92	Max WS	TR_30 8H	5.94	1.15	5.71	1.15		124.22	0.08	0.04	251.79	251.93	251.91	251.85	251.83
Fuga	65.92	Max WS	TR_30 12H	4.80	0.09	5.44	0.09		44.16	0.02	0.01	251.79	251.87	251.86	251.79	251.77
Fuga	64.91	Max WS	TR_200 1H	5.35	0.00	6.37	0.00					251.86	251.88	251.87	251.79	251.69
Fuga	64.91	Max WS	TR_200 2H	6.82	0.59	6.92	0.59		80.12	0.07	0.03	251.86	251.96	251.96	251.88	251.79
Fuga	64.91	Max WS	TR_200 3H	7.62	1.32	7.02	1.32		107.96	0.09	0.05	251.86	251.98	251.98	251.91	251.81
Fuga	64.91	Max WS	TR_200 4H	7.88	1.49	7.05	1.49		112.99	0.10	0.05	251.86	251.99	251.98	251.92	251.82
Fuga	64.91	Max WS	TR_200 6H	7.78	1.12	7.10	1.12		102.16	0.09	0.04	251.86	251.98	251.97	251.91	251.80
Fuga	64.91	Max WS	TR_200 8H	7.38	0.71	7.06	0.71		86.58	0.07	0.04	251.86	251.97	251.96	251.89	251.79
Fuga	64.91	Max WS	TR_200 12H	6.60	0.19	6.90	0.19		52.33	0.04	0.02	251.86	251.94	251.94	251.86	251.75
Fuga	64.91	Max WS	TR_30 1H	2.07	0.00	2.55	0.00					251.86	251.20	251.19	251.04	251.00
Fuga	64.91	Max WS	TR_30 2H	3.52	0.00	4.25	0.00					251.86	251.57	251.55	251.44	251.38
Fuga	64.91	Max WS	TR_30 3H	4.66	0.00	5.67	0.00					251.86	251.81	251.79	251.71	251.63
Fuga	64.91	Max WS	TR_30 4H	5.16	0.00	6.23	0.00					251.86	251.86	251.85	251.77	251.68
Fuga	64.91	Max WS	TR_30 6H	5.46	0.00	6.43	0.00					251.86	251.88	251.88	251.79	251.70
Fuga	64.91	Max WS	TR_30 8H	5.54	0.00	6.43	0.00					251.86	251.87	251.87	251.78	251.69
Fuga	64.91	Max WS	TR_30 12H	5.11	0.00	6.00	0.00					251.86	251.83	251.81	251.72	251.64
Fuga	63.90	Max WS	TR_200 1H	5.56	0.00	6.37	0.00					251.85	251.85	251.84	251.79	251.69
Fuga	63.90	Max WS	TR_200 2H	5.71	0.00	6.92	0.00					251.85	251.94	251.93	251.88	251.79
Fuga	63.90	Max WS	TR_200 3H	5.71	0.05	7.02	0.05		34.35	0.02	0.01	251.85	251.96	251.95	251.91	251.81
Fuga	63.90	Max WS	TR_200 4H	5.77	0.08	7.05	0.08		41.85	0.03	0.01	251.85	251.97	251.96	251.92	251.82
Fuga	63.90	Max WS	TR_200 6H	5.94	0.01	7.10	0.01		20.76	0.01	0.01	251.85	251.96	251.94	251.91	251.80
Fuga	63.90	Max WS	TR_200 8H	5.97	0.00	7.06	0.00					251.85	251.95	251.93	251.89	251.79
Fuga	63.90	Max WS	TR_200 12H	5.93	0.00	6.90	0.00					251.85	251.92	251.90	251.86	251.75
Fuga	63.90	Max WS	TR_30 1H	2.25	0.00	2.55	0.00					251.85	251.13	251.12	251.04	251.00
Fuga	63.90	Max WS	TR_30 2H	3.80	0.00	4.25	0.00					251.85	251.52	251.50	251.44	251.38
Fuga	63.90	Max WS	TR_30 3H	5.04	0.00	5.67	0.00					251.85	251.77	251.76	251.71	251.63
Fuga	63.90	Max WS	TR_30 4H	5.46	0.00	6.23	0.00					251.85	251.84	251.82	251.77	251.68
Fuga	63.90	Max WS	TR_30 6H	5.61	0.00	6.43	0.00					251.85	251.86	251.84	251.79	251.70
Fuga	63.90	Max WS	TR_30 8H	5.71	0.00	6.43	0.00					251.85	251.85	251.83	251.78	251.69
Fuga	63.90	Max WS	TR_30 12H	5.44	0.00	6.00	0.00					251.85	251.79	251.77	251.72	251.64
Fuga	60.92	Max WS	TR_200 1H	7.15	1.58	6.18	1.58		79.29	0.11	0.06	251.43	251.67	251.65	251.62	251.52
Fuga	60.92	Max WS	TR_200 2H	8.29	3.37	6.01	3.37		103.63	0.16	0.09	251.43	251.72	251.69	251.67	251.59
Fuga	60.92	Max WS	TR_200 3H	8.81	4.27	5.92	4.27		113.40	0.18	0.10	251.43	251.74	251.71	251.69	251.61
Fuga	60.92	Max WS	TR_200 4H	8.90	4.45	5.89	4.45		113.40	0.19	0.10	251.43	251.74	251.71	251.70	251.62
Fuga	60.92	Max WS	TR_200 6H	8.63	3.81	6.01	3.81		109.30	0.17	0.09	251.43	251.73	251.70	251.68	251.60
Fuga	60.92	Max WS	TR_200 8H	8.34	3.29	6.06	3.29		103.07	0.16	0.09	251.43	251.72	251.69	251.67	251.58
Fuga	60.92	Max WS	TR_200 12H	7.89	2.53	6.14	2.53		93.71	0.14	0.08	251.43	251.70	251.68	251.65	251.56
Fuga	60.92	Max WS	TR_30 1H	2.84	0.00	3.06	0.00					251.43	250.97	250.95	250.88	250.81
Fuga	60.92	Max WS	TR_30 2H	4.71	0.00	5.02	0.00					251.43	251.38	251.36	251.30	251.21
Fuga	60.92	Max WS	TR_30 3H	6.28	0.62	6.14	0.62		59.47	0.07	0.04	251.43	251.63	251.61	251.57	251.47
Fuga	60.92	Max WS	TR_30 4H	6.97	1.35	6.19	1.35		75.58	0.10	0.06	251.43	251.66	251.64	251.61	251.51
Fuga	60.92	Max WS	TR_30 6H	7.22	1.67	6.18	1.67		80.76	0.11	0.07	251.43	251.67	251.65	251.62	251.52
Fuga	60.92	Max WS	TR_30 8H	7.12	1.40	6.27	1.40		76.81	0.11	0.06	251.43	251.67	251.64	251.61	251.51
Fuga	60.92	Max WS	TR_30 12H	6.54	0.67	6.29	0.67		61.59	0.08	0.04	251.43	251.63	251.62	251.58	251.47
Fuga	58.92	Max WS	TR_200 1H	6.18	0.00	6.98	0.00					251.43	251.51	251.41	251.42	251.40
Fuga	58.92	Max WS	TR_200 2H	6.00	0.54	6.88	0.54		53.99	0.07	0.04	251.43	251.57	251.48	251.50	251.48
Fuga	58.92	Max WS	TR_200 3H	5.92	1.24	6.50	1.24		73.70	0.09	0.06	251.43	251.59	251.51	251.54	251.52
Fuga	58.92	Max WS	TR_200 4H	5.89	1.41	6.38	1.41		77.56	0.10	0.06	251.43	251.59	251.51	251.54	251.53
Fuga	58.92	Max WS	TR_200 6H	6.01	0.79	6.78	0.79		62.23	0.08	0.05	251.43	251.58	251.49	251.51	251.50

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)
Fuga	58.92	Max WS	TR_200 8H	6.06	0.45	6.93	0.45		51.01	0.06	0.04	251.43	251.56	251.47	251.49	251.48
Fuga	58.92	Max WS	TR_200 12H	6.14	0.12	7.04	0.12		35.26	0.03	0.02	251.43	251.54	251.44	251.46	251.44
Fuga	58.92	Max WS	TR_30 1H	3.06	0.00	3.36	0.00					251.43	250.88	250.82	250.76	250.75
Fuga	58.92	Max WS	TR_30 2H	5.02	0.00	5.50	0.00					251.43	251.30	251.21	251.20	251.19
Fuga	58.92	Max WS	TR_30 3H	6.14	0.00	6.77	0.00					251.43	251.47	251.36	251.37	251.36
Fuga	58.92	Max WS	TR_30 4H	6.19	0.00	6.95	0.00					251.43	251.50	251.40	251.41	251.39
Fuga	58.92	Max WS	TR_30 6H	6.18	0.00	6.99	0.00		1.83	0.00	0.00	251.43	251.51	251.41	251.42	251.41
Fuga	58.92	Max WS	TR_30 8H	6.27	0.00	6.98	0.00					251.43	251.50	251.39	251.41	251.39
Fuga	58.92	Max WS	TR_30 12H	6.29	0.00	6.85	0.00					251.43	251.47	251.36	251.37	251.35
Fuga	55.81	Max WS	TR_200 1H	8.20	0.00	8.69	0.00					251.39	251.30	251.27	251.19	251.06
Fuga	55.81	Max WS	TR_200 2H	9.02	0.00	9.87	0.00					251.39	251.38	251.36	251.26	251.11
Fuga	55.81	Max WS	TR_200 3H	9.28	0.00	10.39	0.00					251.39	251.43	251.40	251.31	251.15
Fuga	55.81	Max WS	TR_200 4H	9.26	0.00	10.42	0.00					251.39	251.44	251.41	251.33	251.17
Fuga	55.81	Max WS	TR_200 6H	9.17	0.00	10.12	0.00					251.39	251.40	251.37	251.28	251.12
Fuga	55.81	Max WS	TR_200 8H	8.94	0.00	9.75	0.00					251.39	251.38	251.35	251.26	251.11
Fuga	55.81	Max WS	TR_200 12H	8.60	0.00	9.22	0.00					251.39	251.34	251.31	251.23	251.09
Fuga	55.81	Max WS	TR_30 1H	3.81	0.00	3.98	0.00					251.39	250.61	250.58	250.43	250.35
Fuga	55.81	Max WS	TR_30 2H	6.19	0.00	6.44	0.00					251.39	251.09	251.07	250.98	250.90
Fuga	55.81	Max WS	TR_30 3H	7.73	0.00	8.10	0.00					251.39	251.26	251.23	251.15	251.04
Fuga	55.81	Max WS	TR_30 4H	8.10	0.00	8.55	0.00					251.39	251.29	251.26	251.18	251.06
Fuga	55.81	Max WS	TR_30 6H	8.24	0.00	8.73	0.00					251.39	251.30	251.28	251.19	251.07
Fuga	55.81	Max WS	TR_30 8H	8.07	0.00	8.50	0.00					251.39	251.29	251.26	251.18	251.06
Fuga	55.81	Max WS	TR_30 12H	7.69	0.00	8.03	0.00					251.39	251.25	251.23	251.14	251.03
Fuga	51.92	Max WS	TR_200 1H	8.69	1.20	7.91	1.20		58.01	0.14	0.06	250.88	251.07	251.05	251.03	251.02
Fuga	51.92	Max WS	TR_200 2H	9.86	2.34	8.26	2.34		76.58	0.18	0.08	250.88	251.12	251.09	251.08	251.06
Fuga	51.92	Max WS	TR_200 3H	10.38	2.95	8.41	2.95		84.78	0.20	0.09	250.88	251.14	251.11	251.10	251.08
Fuga	51.92	Max WS	TR_200 4H	10.42	3.07	8.40	3.07		86.19	0.20	0.09	250.88	251.14	251.11	251.10	251.08
Fuga	51.92	Max WS	TR_200 6H	10.12	2.70	8.31	2.70		81.53	0.19	0.09	250.88	251.13	251.10	251.09	251.07
Fuga	51.92	Max WS	TR_200 8H	9.75	2.32	8.18	2.32		76.23	0.18	0.08	250.88	251.12	251.09	251.08	251.06
Fuga	51.92	Max WS	TR_200 12H	9.22	1.82	7.99	1.82		68.53	0.16	0.08	250.88	251.10	251.07	251.06	251.04
Fuga	51.92	Max WS	TR_30 1H	3.98	0.00	4.14	0.00					250.88	250.33	250.31	250.27	250.25
Fuga	51.92	Max WS	TR_30 2H	6.45	0.00	6.70	0.00					250.88	250.91	250.89	250.87	250.86
Fuga	51.92	Max WS	TR_30 3H	8.10	0.74	7.70	0.74		47.58	0.11	0.05	250.88	251.05	251.03	251.01	250.99
Fuga	51.92	Max WS	TR_30 4H	8.55	1.08	7.87	1.08		55.53	0.13	0.06	250.88	251.07	251.04	251.03	251.01
Fuga	51.92	Max WS	TR_30 6H	8.73	1.27	7.92	1.27		59.22	0.14	0.07	250.88	251.07	251.05	251.04	251.02
Fuga	51.92	Max WS	TR_30 8H	8.50	1.09	7.82	1.09		55.53	0.13	0.06	250.88	251.07	251.04	251.03	251.01
Fuga	51.92	Max WS	TR_30 12H	8.03	0.69	7.66	0.69		46.17	0.11	0.05	250.88	251.04	251.02	251.00	250.99
Fuga	50.72	Max WS	TR_200 1H	7.91	0.58	7.57	0.58		26.36	0.14	0.07	250.88	251.03	251.02	251.02	251.00
Fuga	50.72	Max WS	TR_200 2H	8.26	1.21	7.45	1.21		35.60	0.18	0.09	250.88	251.08	251.06	251.06	251.05
Fuga	50.72	Max WS	TR_200 3H	8.41	1.57	7.38	1.57		39.49	0.20	0.10	250.88	251.10	251.08	251.08	251.07
Fuga	50.72	Max WS	TR_200 4H	8.40	1.63	7.34	1.63		40.18	0.20	0.10	250.88	251.10	251.08	251.09	251.08
Fuga	50.72	Max WS	TR_200 6H	8.31	1.42	7.38	1.42		37.93	0.19	0.10	250.88	251.09	251.07	251.08	251.06
Fuga	50.72	Max WS	TR_200 8H	8.18	1.20	7.40	1.20		35.42	0.18	0.09	250.88	251.08	251.06	251.06	251.05
Fuga	50.72	Max WS	TR_200 12H	7.99	0.92	7.40	0.92		31.75	0.16	0.08	250.88	251.06	251.04	251.04	251.03
Fuga	50.72	Max WS	TR_30 1H	4.14	0.00	4.22	0.00					250.88	250.27	250.25	250.22	250.20
Fuga	50.72	Max WS	TR_30 2H	6.70	0.00	6.84	0.00					250.88	250.87	250.86	250.85	250.83
Fuga	50.72	Max WS	TR_30 3H	7.70	0.34	7.55	0.34		21.31	0.11	0.06	250.88	251.01	250.99	250.99	250.97
Fuga	50.72	Max WS	TR_30 4H	7.87	0.52	7.58	0.52		25.14	0.13	0.07	250.88	251.03	251.01	251.01	250.99
Fuga	50.72	Max WS	TR_30 6H	7.92	0.62	7.55	0.62		26.96	0.14	0.07	250.88	251.04	251.02	251.02	251.00
Fuga	50.72	Max WS	TR_30 8H	7.82	0.52	7.52	0.52		25.22	0.13	0.07	250.88	251.03	251.01	251.01	250.99
Fuga	50.72	Max WS	TR_30 12H	7.66	0.32	7.52	0.32		20.63	0.11	0.05	250.88	251.00	250.99	250.99	250.97
Fuga	47.42	Max WS	TR_200 1H	8.16	1.64	7.12	1.64		56.19	0.16	0.08	250.46	250.65	250.63	250.61	250.60
Fuga	47.42	Max WS	TR_200 2H	8.53	3.86	5.73	3.86		80.28	0.23	0.11	250.46	250.71	250.69	250.69	250.68
Fuga	47.42	Max WS	TR_200 3H	8.84	4.91	5.31	4.91		88.64	0.25	0.13	250.46	250.74	250.72	250.71	250.70
Fuga	47.42	Max WS	TR_200 4H	8.92	5.23	5.18	5.23		90.95	0.26	0.13	250.46	250.74	250.72	250.72	250.71
Fuga	47.42	Max WS	TR_200 6H	8.72	4.54	5.45	4.54		85.82	0.24	0.12	250.46	250.73	250.71	250.70	250.70
Fuga	47.42	Max WS	TR_200 8H	8.54	3.93	5.68	3.93		80.89	0.23	0.12	250.46	250.72	250.70	250.69	250.68
Fuga	47.42	Max WS	TR_200 12H	8.28	3.20	5.92	3.20		74.34	0.21	0.11	250.46	250.70	250.68	250.67	250.66
Fuga	47.42	Max WS	TR_30 1H	4.45	0.00	4.67	0.00					250.46	250.12	250.10	250.06	250.05
Fuga	47.42	Max WS	TR_30 2H	7.21	0.09	7.48	0.09		17.72	0.05	0.03	250.46	250.55	250.53	250.49	250.47
Fuga	47.42	Max WS	TR_30 3H	8.02	1.00	7.50	1.00		45.94	0.13	0.07	250.46	250.63	250.61	250.58	250.56
Fuga	47.42	Max WS	TR_30 4H	8.14	1.43	7.27	1.43		53.06	0.15	0.08	250.46	250.65	250.63	250.60	250.59
Fuga	47.42	Max WS	TR_30 6H	8.19	1.76	7.07	1.76		57.76	0.17	0.08	250.46	250.66	250.64	250.62	250.60
Fuga	47.42	Max WS	TR_30 8H	8.13	1.56	7.14	1.56		55.07	0.16	0.08	250.46	250.65	250.63	250.61	250.60
Fuga	47.42	Max WS	TR_30 12H	8.00	0.96	7.49	0.96		45.22	0.13	0.07	250.46	250.63	250.61	250.58	250.56
Fuga	40.22	Max WS	TR_200 1H	8.57	0.00	9.04	0.00					250.43	250.37	250.35	250.31	250.16
Fuga	40.22	Max WS	TR_200 2H	8.44	0.60	8.71	0.60		53.33	0.09	0.04	250.43	250.54	250.53	250.51	250.40
Fuga	40.22	Max WS	TR_200 3H	8.92	1.40	8.68	1.40		74.89	0.12	0.06	250.43	250.58	250.56	250.55	250.44
Fuga	40.22	Max WS	TR_200 4H	9.06	1.66	8.66	1.66		80.32	0.13	0.07	250.43	250.58	250.57	250.56	250.45
Fuga	40.22	Max WS	TR_200 6H	8.75	1.13	8.69	1.13		68.57	0.11	0.06	250.43	250.57	250.55	250.54	250.43
Fuga	40.22	Max WS	TR_200 8H	8.49	0.68	8.71	0.68		56.06	0.09	0.05	250.43	250.55	250.53	250.52	250.40
Fuga	40.22	Max WS	TR_200 12H	8.09	0.16	8.64	0.16		30.90	0.05	0.03	250.43	250.51	250.49	250.47	250.36
Fuga	40.22	Max WS	TR_30 1H	5.24	0.00	5.42	0.00					250.43	249.81	249.79	249.72	249.62
Fuga	40.22	Max WS	TR_30 2H	8.36	0.00	8.61	0.00					250.43	250.20	250.17	250.11	249.94
Fuga	40.22	Max WS	TR_30 3H	8.69	0.00	9.06	0.00					250.43	250.29	250.26	250.21	250.04
Fuga	40.22	Max WS	TR_30 4H	8.63	0.00	9.06	0.00					250.43	250.33	250.30	250.26	250.10
Fuga	40.22	Max WS	TR_30 6H	8.55	0.00	9.03	0.00					250.43	250.38	250.36	250.33	250.18
Fuga	40.22	Max WS	TR_30 8H	8.58	0.00	9.04	0.00					250.43	250.35	250.33	250.29	250.14
Fuga	40.22	Max WS	TR_30 12H	8.67	0.00	9.05	0.00					250.43	250.28	250.26	250.21	250.04
Fuga	35.21	Max WS	TR_200 1H	10.03	0.00	10.51	0.00					250.35	250.19	250.18	250.15	250.14
Fuga	35.21	Max WS	TR_200 2H	10.53	0.23	11.20	0.23		37.41	0.06	0.03	250.35	250.42	250.41	250.40	250.39
Fuga	35.21	Max WS	TR_200 3H	11.09	0.82	11.45	0.82		57.24	0.10	0.05	250.35	250.46	250.45	250.44	250.43
Fuga	35.21	Max WS	TR_200 4H	11.25	1.04	11.50	1.04		59.41	0.11	0.06	250.35	250.47	250.46	250.45	250.44
Fuga	35.21	Max WS	TR_200 6H	10.90	0.60	11.39	0.60		54.68	0.09	0.04	250.35	250.45	250.44	250.43	250.42
Fuga	35.21	Max WS	TR_200 8H	10.59	0.28	11.23	0.28		40.42	0.06	0.03	250.35	250.43	250.42	250.41	250.40
Fuga	35.21	Max WS	TR_200 12H	10.10	0.01	10.81	0.01		11.59	0.02	0.01	250.35	250.38	250.37	250.36	250.35
Fuga	35.21	Max WS	TR_30 1H	5.80	0.00	5.99	0.00					250.35	249.58	249.57	249.51	249.50
Fuga	35.21	Max WS	TR_30 2H	9.23	0.00	9.53	0.00					250.35	249.96	249.94	249.91	249.89
Fuga	35.21	Max WS	TR_30 3H	9.86	0.00	10.26	0.00					250.35	250.07	250.05	250.02	250.01
Fuga	35.21	Max WS	TR_30 4H	9.98	0.00	10.43	0.00					250.35	250.13	250.12	250.09	250.08
Fuga	35.21	Max WS	TR_30 6H	10.05	0.00	10.54	0.00					250.35	250.21	250.20	250.18	250.17
Fuga	35.21	Max WS	TR_30 8H	10.01	0.00	10.48	0.00					250.35	250.17	250.16	250.13	250.12
Fuga	35.21	Max WS	TR_30 12H	9.84	0.00	10.23	0.00					250.35	250.07	250.05	250.02	250.01
Fuga	29.21	Max WS	TR_200 1H	11.48	0.00	11.55	0.00					250.17	250.07	250.03	250.06	249.94
Fuga	29.21	Max WS	TR_200 2H	13.00	0.12	13.00	0.12		17.75	0.05	0.03	250.17	250.34	250.31	250.35	250.22
Fuga	29.21	Max WS	TR_200 3H	13.84	0.34	13.66	0.34		17.75	0.09	0.07	250.17	250.38	250.35	250.39	250.26
Fuga	29.21	Max WS	TR_200 4H	14.08	0.42	13.83	0.42		17.75	0.09	0.08	250.17	250.39	250.36	250.40	250.26
Fuga	29.21	Max WS	TR_200 6H	13.58	0.27	13.46	0.27		17.75	0.08	0.06	250.17	250.37	250.34	250.38	250.25
Fuga	29.21	Max WS	TR_200 8H	13.10	0.15	13.08	0.15		17.75	0.06	0.04	250.17	250.34	250.32	250.35	250.23
Fuga	29.21	Max WS	TR_200 12H	12.26	0.01	12.35	0.01		7.96	0.02	0.01	250.17	250.30	250.28	250.31	250.19
Fuga	29.21	Max WS	TR_30 1H	6.37	0.00	6.40	0.00					250.17	249.33	249.30	249.31	249.23
Fuga	29.21	Max WS	TR_30 2H	10.12	0.00	10.15	0.00					250.17	249.77	249.73	249.76	249.63
Fuga	29.21	Max WS	TR_30 3H	11.04	0.00	11.09	0.00					250.17	249.91	249.87	249.90	249.76

HEC-RAS River: Fuga di Torrita Reach: Fuga 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)
Fuga	29.21	Max WS	TR_30 4H	11.34	0.00	11.40	0.00					250.17	249.99	249.95	249.98	249.85
Fuga	29.21	Max WS	TR_30 6H	11.54	0.00	11.61	0.00					250.17	250.10	250.07	250.09	249.97
Fuga	29.21	Max WS	TR_30 8H	11.43	0.00	11.50	0.00					250.17	250.04	250.01	250.04	249.91
Fuga	29.21	Max WS	TR_30 12H	11.02	0.00	11.07	0.00					250.17	249.90	249.87	249.90	249.76
Fuga	26.61	Max WS	TR_200 1H	12.08	0.00	12.66	0.00					249.85	249.83	249.81	249.78	249.77
Fuga	26.61	Max WS	TR_200 2H	13.99	0.61	14.42	0.61		69.45	0.07	0.04	249.85	249.98	249.96	249.94	249.92
Fuga	26.61	Max WS	TR_200 3H	14.98	1.44	14.92	1.44		98.71	0.11	0.05	249.85	250.01	249.99	249.97	249.95
Fuga	26.61	Max WS	TR_200 4H	15.26	1.72	15.02	1.72		106.33	0.11	0.06	249.85	250.02	250.00	249.98	249.96
Fuga	26.61	Max WS	TR_200 6H	14.67	1.15	14.78	1.15		90.23	0.10	0.05	249.85	250.00	249.99	249.96	249.94
Fuga	26.61	Max WS	TR_200 8H	14.11	0.69	14.49	0.69		73.14	0.08	0.04	249.85	249.98	249.97	249.94	249.92
Fuga	26.61	Max WS	TR_200 12H	13.15	0.14	13.83	0.14		38.87	0.04	0.02	249.85	249.95	249.93	249.90	249.89
Fuga	26.61	Max WS	TR_30 1H	6.61	0.00	6.82	0.00					249.85	249.20	249.18	249.13	249.12
Fuga	26.61	Max WS	TR_30 2H	10.48	0.00	10.81	0.00					249.85	249.63	249.62	249.58	249.57
Fuga	26.61	Max WS	TR_30 3H	11.53	0.00	11.97	0.00					249.85	249.77	249.75	249.72	249.71
Fuga	26.61	Max WS	TR_30 4H	11.91	0.00	12.45	0.00					249.85	249.81	249.79	249.76	249.75
Fuga	26.61	Max WS	TR_30 6H	12.15	0.00	12.75	0.00					249.85	249.84	249.82	249.79	249.77
Fuga	26.61	Max WS	TR_30 8H	12.02	0.00	12.59	0.00					249.85	249.82	249.81	249.78	249.76
Fuga	26.61	Max WS	TR_30 12H	11.50	0.00	11.95	0.00					249.85	249.77	249.75	249.72	249.71
Fuga	25.22	Max WS	TR_200 1H	13.33	0.00	13.78	0.00					249.69	249.72	249.70	249.66	249.44
Fuga	25.22	Max WS	TR_200 2H	15.62	2.15	14.29	2.15		79.36	0.14	0.08	249.69	249.88	249.86	249.83	249.64
Fuga	25.22	Max WS	TR_200 3H	16.50	3.30	14.30	3.30		91.30	0.17	0.10	249.69	249.91	249.88	249.87	249.67
Fuga	25.22	Max WS	TR_200 4H	16.73	3.66	14.25	3.66		94.66	0.18	0.10	249.69	249.92	249.89	249.88	249.69
Fuga	25.22	Max WS	TR_200 6H	16.23	2.95	14.29	2.95		87.90	0.16	0.09	249.69	249.90	249.88	249.86	249.66
Fuga	25.22	Max WS	TR_200 8H	15.72	2.28	14.29	2.28		80.97	0.15	0.08	249.69	249.88	249.86	249.84	249.64
Fuga	25.22	Max WS	TR_200 12H	14.79	1.20	14.24	1.20		66.82	0.11	0.06	249.69	249.85	249.83	249.80	249.59
Fuga	25.22	Max WS	TR_30 1H	7.08	0.00	7.25	0.00					249.69	249.05	249.04	248.98	248.87
Fuga	25.22	Max WS	TR_30 2H	11.21	0.00	11.47	0.00					249.69	249.52	249.50	249.45	249.27
Fuga	25.22	Max WS	TR_30 3H	12.49	0.00	12.84	0.00					249.69	249.66	249.64	249.59	249.40
Fuga	25.22	Max WS	TR_30 4H	13.07	0.00	13.49	0.00					249.69	249.71	249.69	249.64	249.43
Fuga	25.22	Max WS	TR_30 6H	13.45	0.00	13.92	0.00					249.69	249.73	249.71	249.67	249.45
Fuga	25.22	Max WS	TR_30 8H	13.24	0.00	13.68	0.00					249.69	249.72	249.70	249.65	249.44
Fuga	25.22	Max WS	TR_30 12H	12.47	0.00	12.82	0.00					249.69	249.66	249.64	249.59	249.40
Fuga	21.42	Max WS	TR_200 1H	13.97	1.07	13.69	1.07		82.73	0.09	0.05	249.40	249.53	249.50	249.45	249.42
Fuga	21.42	Max WS	TR_200 2H	14.61	2.58	13.44	2.58		120.68	0.13	0.07	249.40	249.56	249.53	249.50	249.47
Fuga	21.42	Max WS	TR_200 3H	14.72	3.45	13.12	3.45		137.61	0.14	0.07	249.40	249.58	249.55	249.52	249.49
Fuga	21.42	Max WS	TR_200 4H	14.70	3.75	12.95	3.75		142.95	0.15	0.08	249.40	249.58	249.55	249.52	249.50
Fuga	21.42	Max WS	TR_200 6H	14.68	3.24	13.13	3.24		133.99	0.14	0.07	249.40	249.57	249.55	249.51	249.49
Fuga	21.42	Max WS	TR_200 8H	14.62	2.73	13.32	2.73		124.20	0.13	0.07	249.40	249.57	249.54	249.50	249.48
Fuga	21.42	Max WS	TR_200 12H	14.50	2.07	13.55	2.07		109.88	0.12	0.06	249.40	249.55	249.53	249.48	249.46
Fuga	21.42	Max WS	TR_30 1H	7.32	0.00	7.61	0.00					249.40	248.91	248.89	248.81	248.78
Fuga	21.42	Max WS	TR_30 2H	11.58	0.00	12.03	0.00					249.40	249.35	249.32	249.26	249.23
Fuga	21.42	Max WS	TR_30 3H	12.98	0.22	13.36	0.22		43.45	0.05	0.03	249.40	249.48	249.46	249.40	249.37
Fuga	21.42	Max WS	TR_30 4H	13.66	0.77	13.61	0.77		72.28	0.08	0.04	249.40	249.52	249.49	249.44	249.41
Fuga	21.42	Max WS	TR_30 6H	14.12	1.26	13.68	1.26		88.78	0.10	0.05	249.40	249.53	249.51	249.46	249.43
Fuga	21.42	Max WS	TR_30 8H	13.86	1.00	13.63	1.00		80.48	0.09	0.05	249.40	249.52	249.50	249.45	249.42
Fuga	21.42	Max WS	TR_30 12H	12.96	0.24	13.33	0.24		44.46	0.05	0.03	249.40	249.48	249.46	249.40	249.37
Fuga	12.62	Max WS	TR_200 1H	16.76	0.00	16.04	0.00					248.51	248.52	248.51	248.50	248.49
Fuga	12.62	Max WS	TR_200 2H	18.87	0.06	16.82	0.06		23.62	0.03	0.02	248.51	248.56	248.55	248.54	248.53
Fuga	12.62	Max WS	TR_200 3H	20.41	0.23	17.19	0.23		41.41	0.05	0.03	248.51	248.59	248.57	248.56	248.56
Fuga	12.62	Max WS	TR_200 4H	21.67	0.45	17.42	0.45		54.09	0.07	0.04	248.51	248.60	248.59	248.58	248.57
Fuga	12.62	Max WS	TR_200 6H	21.28	0.38	17.35	0.38		50.81	0.07	0.03	248.51	248.60	248.58	248.58	248.57
Fuga	12.62	Max WS	TR_200 8H	20.29	0.22	17.17	0.22		40.81	0.05	0.03	248.51	248.59	248.57	248.56	248.56
Fuga	12.62	Max WS	TR_200 12H	18.99	0.07	16.86	0.07		25.79	0.03	0.02	248.51	248.56	248.55	248.54	248.54
Fuga	12.62	Max WS	TR_30 1H	8.76	0.00	9.09	0.00					248.51	248.34	248.33	248.33	248.32
Fuga	12.62	Max WS	TR_30 2H	13.89	0.00	14.10	0.00					248.51	248.46	248.45	248.45	248.44
Fuga	12.62	Max WS	TR_30 3H	15.81	0.00	15.47	0.00					248.51	248.50	248.49	248.48	248.47
Fuga	12.62	Max WS	TR_30 4H	16.55	0.00	15.93	0.00					248.51	248.51	248.50	248.49	248.49
Fuga	12.62	Max WS	TR_30 6H	17.35	0.00	16.30	0.00		3.01	0.00	0.00	248.51	248.53	248.52	248.51	248.50
Fuga	12.62	Max WS	TR_30 8H	17.28	0.00	16.27	0.00		2.32	0.00	0.00	248.51	248.53	248.52	248.51	248.50
Fuga	12.62	Max WS	TR_30 12H	16.27	0.00	15.79	0.00					248.51	248.51	248.50	248.49	248.48
Fuga	12.61	Max WS	TR_200 1H	16.76	1.61	16.04	1.61		99.63	0.11	0.06	248.39	248.52	248.51	248.50	248.49
Fuga	12.61	Max WS	TR_200 2H	18.87	3.54	16.82	3.54		136.98	0.15	0.08	248.39	248.56	248.55	248.54	248.53
Fuga	12.61	Max WS	TR_200 3H	20.41	5.09	17.19	5.09		158.54	0.17	0.09	248.39	248.59	248.57	248.56	248.56
Fuga	12.61	Max WS	TR_200 4H	21.67	6.39	17.42	6.39		173.79	0.19	0.10	248.39	248.60	248.59	248.58	248.57
Fuga	12.61	Max WS	TR_200 6H	21.28	6.04	17.35	6.04		169.88	0.19	0.09	248.39	248.60	248.58	248.58	248.57
Fuga	12.61	Max WS	TR_200 8H	20.29	5.03	17.17	5.03		157.72	0.17	0.09	248.39	248.59	248.57	248.56	248.56
Fuga	12.61	Max WS	TR_200 12H	18.99	3.72	16.86	3.72		139.62	0.15	0.08	248.39	248.56	248.55	248.54	248.54
Fuga	12.61	Max WS	TR_30 1H	8.76	0.00	9.09	0.00					248.39	248.34	248.33	248.33	248.32
Fuga	12.61	Max WS	TR_30 2H	13.89	0.33	14.10	0.33		52.90	0.06	0.03	248.39	248.46	248.45	248.45	248.44
Fuga	12.61	Max WS	TR_30 3H	15.81	1.05	15.47	1.05		84.15	0.09	0.05	248.39	248.50	248.49	248.48	248.47
Fuga	12.61	Max WS	TR_30 4H	16.55	1.48	15.93	1.48		96.33	0.11	0.05	248.39	248.51	248.50	248.49	248.49
Fuga	12.61	Max WS	TR_30 6H	17.35	2.15	16.30	2.15		112.06	0.12	0.06	248.39	248.53	248.52	248.51	248.50
Fuga	12.61	Max WS	TR_30 8H	17.28	2.12	16.27	2.12		111.46	0.12	0.06	248.39	248.53	248.52	248.51	248.50
Fuga	12.61	Max WS	TR_30 12H	16.27	1.37	15.79	1.37		93.43	0.10	0.05	248.39	248.51	248.50	248.49	248.48