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Direzione Progettazione e Realizzazione Lavori

S.S. 268 "DEL VESUVIO"
RADDOPPIO DA DUE A QUATTRO CORSIE DELLA STATALE
dal Km 19+550 al Km 29+300
IN CORRISPONDENZA DELLO SVINCOLO DI ANGRI

2° Lotto, dal Km 23+100 al Km 29+300

PROGETTO DEFINITIVO

COD. NA235

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STUDI GENERALI
IDRAULICA DEI CORSI D'ACQUA
Relazione idraulica

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B	RECEPIMENTO SCHEDA DI MERITO IDR 09/20	05/2021	MALCOTTI	MALCOTTI	FRESIA
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1 PREMESSA

L'intervento in progetto prevede il raddoppio in sede da due (unica carreggiata) a quattro corsie (doppia carreggiata) della strada statale SS268 Vesuviana nel tratto tra lo svincolo di Boscoreale, Scafati, Angri e lo svincolo con l'autostrada A3 Napoli Salerno, Lotto 2 del raddoppio tra l'autostrada A3 e S. Giuseppe Vesuviano/Poggiomarino.

Il percorso stradale del Lotto 2, avente circa 6.0 km di estensione, ripercorre l'attuale corridoio stradale (a volte in sovrapposizione, a volte in leggero discostamento rispetto a tracciato esistente) posto nella Piana del fiume Sarno, in un territorio alternato tra alta vocazione agricola e densa urbanizzazione.

La principale caratteristica idraulica che contraddistingue la tratta stradale è l'interferenza del tracciato con il fiume Sarno, principale corso d'acqua della piana costiera compresa tra il Vesuvio e la penisola Sorrentina. Il bacino idrografico del fiume Sarno ricade all'interno delle competenze idrauliche dell'Ex Autorità di Bacino del fiume Sarno, le cui funzioni sono ora ricomprese nel Distretto Idrografico dell'Appennino Meridionale.

La piana del fiume Sarno presenta un classico reticolo idrografico di pianura, dove il fiume viene circondato da fossi, controfossi e canali prevalentemente di bonifica, caratterizzati da sezioni geometriche di deflusso costanti e modeste pendenze longitudinali.
Nella zona pedemontana del territorio è presente un gran numero di vasche di laminazione/assorbimento, a chiusura dei principali bacini montani, per limitare o sconnettere i contributi verso le aste vallive e verso i centri abitati.

L'inquadramento normativo connesso alle attività idrauliche consente di poter delimitare i vincoli attorno ai quali costruire/inserire il progetto. Nel quadro complessivo, si pone particolare attenzione alle norme definite dal Distretto Idrografico dell'Appennino Meridionale (PAI e Direttiva Alluvioni), nonché alle recenti norme tecniche delle costruzioni NTC2018.

L'attività idrologica, descritta negli specifici elaborati, ha individuato le seguenti n.7 interferenze tra reticolo idrografico e tracciato stradale:



Figura 1 Ubicazione delle interferenze idrografiche con il 2° Lotto SS268. Il fiume Sarno è individuato come interferenza B.07

Tabella 1: Corsi d'acqua interferenti col 2° Lotto SS268.

BACINO ID	NOME	Progr. km	OPERA INTERFERENTE				NOTE
			ID	Tipologia	Lungh. [m]	N. campate	
B.05	Canale Conte di Sarno	0+200	VI01	Ponte	31	1	DISMESSO/NON ATTIVO
B.06	Controfosso destro del Sarno	2+840	VI02	Viadotto	2518 Sud 2488 Nord	92 Sud 85 Nord	CONTROFOSSO DI BONIFICA
B.07	Fiume Sarno	2+880					
B.08	Controfosso sinistro del Sarno	2+900					CONTROFOSSO DI BONIFICA
B.09	Rio Sguazzatorio	3+220	VI03	Ponte	54	1	Presenti bacini di laminazione/dispersione
B.10	Fosso dei Bagni	4+500	VI05	Viadotto	2401 Sud 1366 Nord	61 Sud 72 Nord	Presenti bacini di laminazione/dispersione
B.11	S. Tommaso – Angri	5+780					Presenti bacini di laminazione/dispersione

Dei corsi d'acqua individuati, si segnala che il Canale Conte di Sarno (B.05, progr. 0+200) è opera di bonifica dismessa e non attiva.

Delle restanti interferenze la presente relazione, accompagnata dagli allegati tabellari e cartografici, sviluppa le verifiche idrauliche ANTE e POST OPERAM, condotte sia mediante modellistica numerica monodimensionale che, nel caso dell'approfondimento del fiume Sarno, mediante modellistica bidimensionale.

La necessità di un approfondimento idraulico di dettaglio sul Sarno emerge dalla particolare posizione del tracciato stradale rispetto all'ambito fluviale naturale di esondazione dell'asta; l'implementazione di un modello idraulico bidimensionale ha infatti permesso di valutare l'estensione del fenomeno alluvionale di riferimento sul territorio circostante e l'interazione dell'opera. Come si illustrerà nel seguito, nel tratto di interesse, per eventi alluvionali del Sarno lo studio del PAI evidenza infatti aree di allagamento estese anche oltre 2 km.

Oltre al Sarno sono presenti anche canali di bonifica, tutti affluenti del Sarno stesso, e lagni/rii che defluiscono lungo percorsi promiscui e che presentano vasche di laminazione e dispersione. Per questi rii secondari sono definite già dagli strumenti di pianificazione delle specifiche aree di pericolo idraulico.

2 RIFERIMENTI NORMATIVI

Le analisi sono state svolte nel rispetto della seguente normativa regionale e nazionale:

- R.D. n°523 del 1904 e ss.mm.ii.
- D.Lgs. n°152 del 2006
- D.M. 11.03.1988 e Circolare 9.1.1996 n.218/24/3 del Ministero LL.PP.
- Decreto del Presidente della Repubblica n. 380 del 06/06/2001 - "Testo unico delle disposizioni legislative e regolamentari in materia edilizia"
- D.M. 14.01.2018 - Norme Tecniche per le Costruzioni e successive circolari
- N.T.A. e Linee Guida del Piano Stralcio per l'Assetto Idrologico
- Piano di Gestione Rischio di Alluvioni del Distretto idrografico Appennino Meridionale PGRA DAM, (adottato, ai sensi dell'art. 66 del d.lgs. 152/2006, con Delibera n° 1 del Comitato Istituzionale Integrato del 17 dicembre 2015, e approvato, ai sensi dell'art. 4 comma 3 del d.lgs. 219/2010, con Delibera n°2 del Comitato Istituzionale Integrato del 3 marzo 2016).

A seguire una specifica sintesi dei Piani di Settore in materia idraulica.

2.1 Il Piano di Gestione Rischio Alluvioni

Il territorio interessato dal progetto ricade all'interno del perimetro di competenza dell'Autorità di Bacino Distrettuale dell'Appennino Meridionale.
Le Autorità di Bacino Distrettuali, dalla data di entrata in vigore del D.M. n. 294/2016, a seguito della soppressione delle Autorità di Bacino Nazionali, Interregionali e Regionali, esercitano le funzioni e i compiti in materia di difesa del suolo, tutela delle acque e gestione delle risorse idriche previsti in capo alle stesse dalla normativa vigente.
L'Autorità di Bacino Distrettuale dell'Appennino Meridionale, in base alle norme vigenti, ha fatto proprie le attività di pianificazione e programmazione a scala di Bacino e di Distretto idrografico.
Attraverso il Piano di Gestione Rischio Alluvioni (di seguito PGRA), approvato il 3 marzo 2016 ai sensi dell'art. 4 c. 3 del D. Lgs 219/2010, sono stati recepiti gli indirizzi operativi per l'attuazione della Direttiva 2007/60/CE, relativi appunto alla valutazione ed alla gestione dei rischi da alluvioni.
Tale documento definisce, infatti, tre scenari alluvionali di riferimento (corrispondenti ad altrettanti intervalli del periodo di ritorno) caratterizzati da probabilità di accadimento, rispettivamente, elevata, media e bassa. In questo modo l'intensità del fenomeno alluvionale può essere correlata direttamente al periodo di ritorno ovvero alla frequenza di accadimento, indipendentemente dai parametri idrodinamici che lo caratterizzano.
Nel Piano di Gestione del Rischio di Alluvioni per il Distretto Idrografico, le Autorità di Bacino hanno provveduto alla definizione e mappatura delle aree inondabili secondo i seguenti criteri:

- aree con elevata probabilità di accadimento (30 ≤ T ≤ 50) →P3 (pericolosità elevata);
- aree con media probabilità di accadimento (100 ≤ T ≤ 200) →P2 (pericolosità media);
- aree con bassa probabilità di accadimento (200 ≤ T ≤ 500) →P1 (pericolosità bassa).

Tabella 2 Definizione degli scenari alluvionali secondo il D. Lgs. 49/2010.

	T (anni)	PROBABILITÀ ACCADIMENTO	ALLUVIONI
P3	20-50	elevata	frequenti
P2	100-200	media	poco frequenti
P1	200-500	bassa	rare

In corrispondenza dei tratti in cui il reticolo presenta pericolosità, sono quindi stati definiti gli elementi soggetti a rischio (E) di essere colpiti da eventi calamitosi; tali elementi sono stati suddivisi in coerenza con la normativa vigente, secondo le seguenti classi:

Tabella 3 PGRA classi elementi a rischio (E).

Classe	Descrizione
E1	Case sparse - Impianti sportivi e ricreativi - Cimiteri - Insediamenti agricoli a bassa tecnologia - Insediamenti zootecnici.
E2	Reti e infrastrutture tecnologiche di secondaria importanza e/o a servizio di ambiti territoriali ristretti (acquedotti, fognature, reti elettriche, telefoniche, depuratori,...) - Viabilità secondaria (strade provinciali e comunali che non rappresentino vie di fuga) - Insediamenti agricoli ad alta tecnologia - Aree naturali protette, aree sottoposte a vincolo ai sensi del D. L.vo 490/99.
E3	Nuclei abitati - Ferrovie - Viabilità primaria e vie di fuga – Aree di protezione civile (attesa, ricovero e ammassamento) - Reti e infrastrutture tecnologiche di primaria importanza (reti elettriche e gasdotti) - Beni culturali, architettonici e archeologici sottoposti a vincolo - Insediamenti industriali e artigianali - Impianti D.P.R. 175/88.
E4	Centri abitati - Edifici pubblici di rilevante importanza (es. scuole, chiese, ospedali, ecc.).

In questo modo, posta cautelativamente la Vulnerabilità al massimo valore pari a 1, è stato possibile definire le diverse classi di rischio secondo l'usuale formula:

$$R_i = P_i \cdot E \cdot V$$

Le classi di rischio adottate nel PGRA conformi alla normativa in materia sono descritte nella seguente Tabella 4.

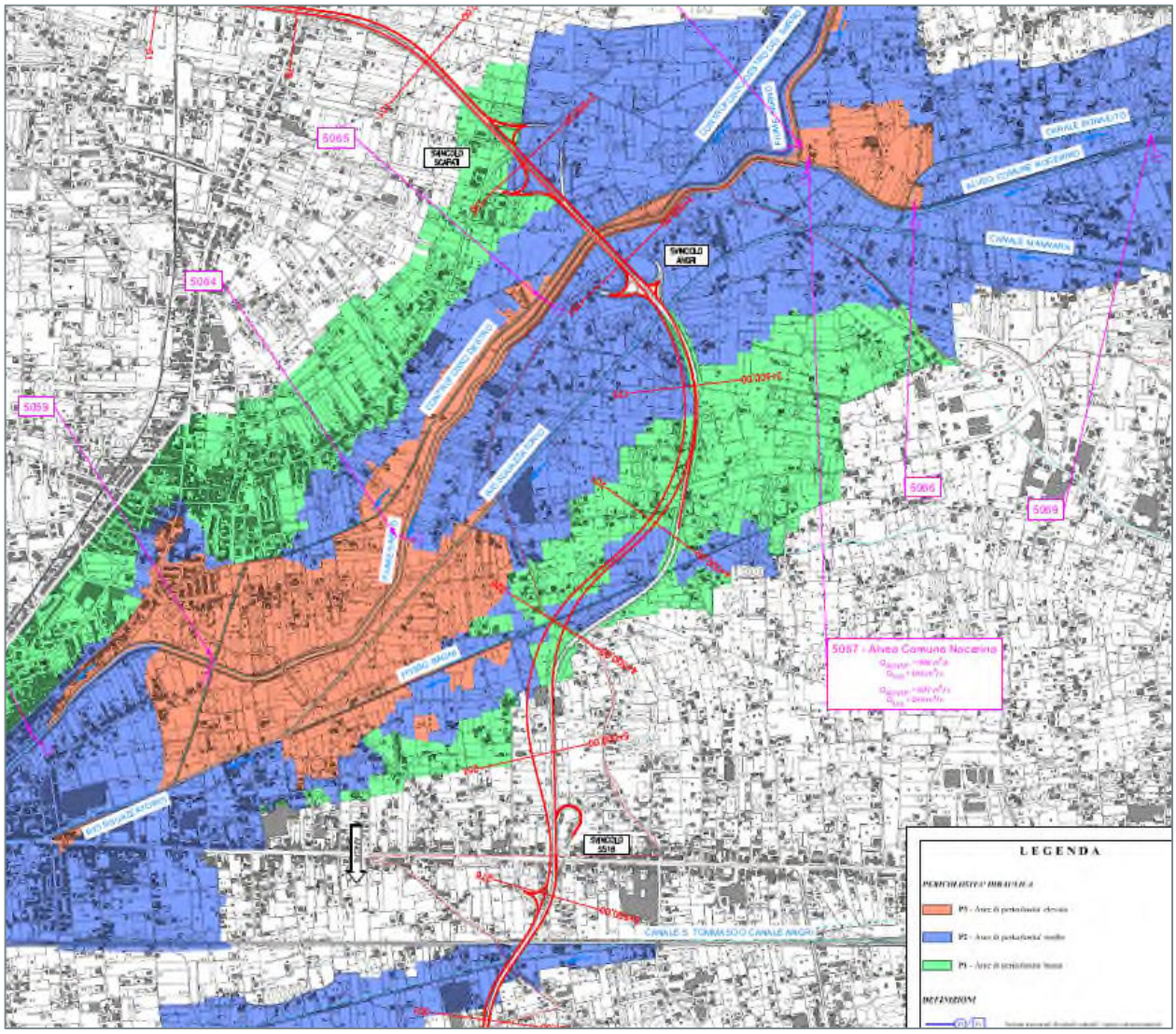
Tabella 4 PAI classi di rischio idraulico (Ri).

R1	**RISCHIO MODERATO**: per il quale i danni sociali, economici e al patrimonio ambientale sono marginali.
R2	**RISCHIO MEDIO**: per il quale sono possibili danni minori agli edifici, alle infrastrutture a al patrimonio ambientale che non pregiudicano l'incolumità del personale, l'agibilità degli edifici e la funzionalità delle attività economiche.
R3	**RISCHIO ELEVATO**: per il quale sono possibili problemi per l'incolumità delle persone, danni funzionali agli edifici e alle infrastrutture con conseguente inagibilità degli stessi,la interruzione di funzionalità delle attività socio-economiche e danni rilevanti al patrimonio ambientale.
R4	**RISCHIO MOLTO ELEVATO**: per il quale sono possibili la perdita di vite umane e lesioni gravi alle persone, danni gravi agli edifici, alle infrastrutture e al patrimonio ambientale, la distruzione di attività socio-economiche.

2.2 Il Piano di Stralcio per l'Assetto Idrogeologico (PSAI)

Il territorio in cui ricade il progetto in esame è di competenza all'Autorità di Bacino Distrettuale dell'Appennino Meridionale, ed è collocato nella UoM (Unit of Management) dell'ex Autorità di Bacino Campania Centrale.
Infatti, prima ancora dell'avvento della Direttiva 2007/60/CE, le Autorità di Bacino avevano già redatto i Piani di Assetto Idrogeologico (PAI), pertanto, le azioni intraprese per la stesura delle "mappe di pericolosità e rischio" in sede di PGRA sono state finalizzate all'aggiornamento, omogeneizzazione e valorizzazione dei PAI vigenti (parte alluvioni) al fine di raggiungere un primo livello comune in ambito nazionale.
La pianificazione di bacino fino ad oggi svolta dalle ex Autorità di Bacino ripresa ed integrata dall'Autorità di Distretto, costituisce riferimento per la programmazione di azioni condivise e partecipate in ambito di governo del territorio a scala di bacino e di distretto idrografico.
Il Piano ad oggi vigente è quello redatto dall'ex AdB Campania Centrale, nata dall'accorpamento delle Autorità di Bacino Regionali Nord-occidentale della Campania e Sarno, nell'ambito di un apprezzabile quadro di riordino normativo del settore della difesa del suolo.
Il PSAI costituisce il primo strumento conoscitivo, normativo e tecnico-operativo mediante il quale sono pianificate e programmate le azioni e le norme d'uso finalizzate alla conservazione, alla difesa ed alla valorizzazione del suolo, alla prevenzione del rischio idrogeologico, sulla base delle caratteristiche fisiche ed ambientali del territorio interessato. È stato redatto ai sensi della legge n. 183/1989 e del decreto-legge n. 180/1998, con le relative fonti normative di conversione, modifica e integrazione. Esso ha valore di piano territoriale di settore e prevale sui piani e programmi di settore di livello regionale.
Dalla consultazione delle cartografie del Piano, si evidenziano diversi tratti del progetto stradale che ricadono in aree con perimetrazioni di pericolosità idraulica. Di queste le più significative sono le perimetrazioni del Fiume Sarno e dei canali artificiali adiacenti.

Nella seguente Figura 2 è riportato l'estratto della cartografia PAI sul Lotto 2 in esame, acquisita dal portale del Distretto Idrografico dell'Appennino Meridionale.
La pericolosità del Sarno rispetto alla strada statale si estende tra lo svincolo di Scafati (circa progr. 2+400) e il Fosso Bagni (circa progr. 4+700). Ulteriore pericolosità idraulica si ritrova all'altezza del Canale S.Tommaso Angri, circa alla progressiva 5+700.



PERICOLOSITA' IDRAULICA

- **P3** - Aree di pericolosita' elevata
- **P2** - Aree di pericolosita' media
- **P1** - Aree di pericolosita' bassa

- Punti/Aree di eventuale crisi idraulica: dissesti arginali, attraversamenti idraulicamente insufficenti, ostruzioni in alveo, erosione spondale, etc...
- Forme e/o processi di versante attivi o quiescenti *(fonte PAI-Rf)* interferenti con le aree alluvionali dei corsi d'acqua oggetto di piano
- Idrografia principale
- Limiti Comunali
- Limiti Provinciali
- Limiti Autorita' di Bacino

Base Cartografica: *C.T.R. Regione Campania, anno 2005*

Figura 2 PAI – Carta della pericolosità idraulica e legenda

3 SINTESI IDROLOGICA

Di seguito si riportano i valori delle portate adottate nelle successive verifiche idrauliche; questi dati sono desunti dalla Relazione Idrologica, a cui si rimanda per gli approfondimenti metodologici.

Portate al colmo per fiume Sarno e Alveo Comune Nocerino

Nelle seguenti tabelle sono riportati i valori di portata e volume determinati per le piene di fiume Sarno e Alveo Comune Nocerino.

Tabella 5 Riepilogo piene fiume Alveo Comune Nocerino

TR (anni)	Q (m^3/s)	V ($1000m^3$)
30	369	5111
100	498	7938
200	567	9199
300	607	9670

Tabella 6 Riepilogo piene fiume Sarno

TR (anni)	Q (m^3/s)	V ($1000m^3$)
30	203	1474
100	274	2249
200	312	2722
300	334	2740

Portate al colmo nelle sezioni d'interferenza dei bacini minori

Nella tabella a seguire sono descritti i valori di portata di progetto duecentennale dei bacini minori interferenti col tracciato stradale. Si evidenzia per ciascun bacino il valore di portata specifica q, ottenuto rapportando la portata al colmo (laminata) con la superficie sottesa.

Tabella 7: Estensione e valore delle portate di progetto duecentennale, determinati per i bacini interferenti. In rosso i rii oggetto di perimetrazione PAI

Bacino ID		Area (km^2)	TR200	TR200 Laminata	q (m3s-1km-2)	Note
B.09	**Rio Sguazzatorio**	20	93	91	5	
B.10	**Fosso dei Bagni**	14	69	61	4	
B.11	**S. Tommaso – Angri**	7	42	35	5	

4 ANALISI IDRAULICHE BIDIMENSIONALI DEL SARNO

Le attività di analisi idraulica sono volte alla definizione sia delle dinamiche di deflusso delle onde di piena nel fiume Sarno e del fiume Alveo Comune Nocerino, sia delle altre interferenze idrauliche con le strutture stradali, con l'obbiettivo di definire la compatibilità idraulica del progetto della Strada Statale 268 del Vesuvio che attraversa il nodo idraulico in questione nella zona nord di Scafati e a circa 9 km dalla foce nel golfo di Napoli.

Le onde di piena utilizzate per le analisi si riferiscono ai tempi di ritorno di 30, 100, 200 e 500 anni per i quali sono state determinate le portate e i corrispondenti idrogrammi nell'ambito delle attività di analisi idrologica.

4.1 Modello di calcolo e approccio metodologico

L'analisi idraulica è stata condotta utilizzando il modello numerico HEC-RAS 5.0.7 sviluppato dalla Hydrologic Engineering Center della U.S. Army, che consente il calcolo dell'andamento dei profili di corrente in moto gradualmente variato oppure in moto vario in alvei naturali o canali artificiali includendo anche la valutazione degli effetti sulla corrente dovuti all'interazione con ponti, tombinature, briglie, stramazzi, aree golenali ecc... Inoltre, il software permette l'analisi idrodinamica monodimensionale, bidimensionale e combinata.

Al fine di interpretare nel dettaglio il funzionamento del nodo idraulico in questione, l'implementazione numerica è stata effettuata combinando tratti di schematizzazione monodimensionale con tratti bidimensionali, in relazione alle specifiche caratteristiche idrodinamiche della piena (alveo di piena prismatico o alveo di piena con modalità di deflusso areale).

La scelta combinata con schematizzazione mono e bi-dimensionale ha permesso una ricostruzione rigorosa dei manufatti interferenti i due corsi d'acqua e della geometria dell'alveo degli stessi. Le analisi sono state svolte studiando le dinamiche di piena in moto vario.



Figura 3 **Inquadramento dell'area oggetto dello studio idraulico**

Come evidenziato in **Figura 3**, il modello numerico implementato ricostruisce le geometrie del fiume Sarno partendo da circa 3 km a monte della confluenza con il Nocerino, mentre quest'ultimo è stato ricostruendo partendo da una distanza dalla confluenza di circa 2,4 km in prossimità di San Marzano sul Sarno.

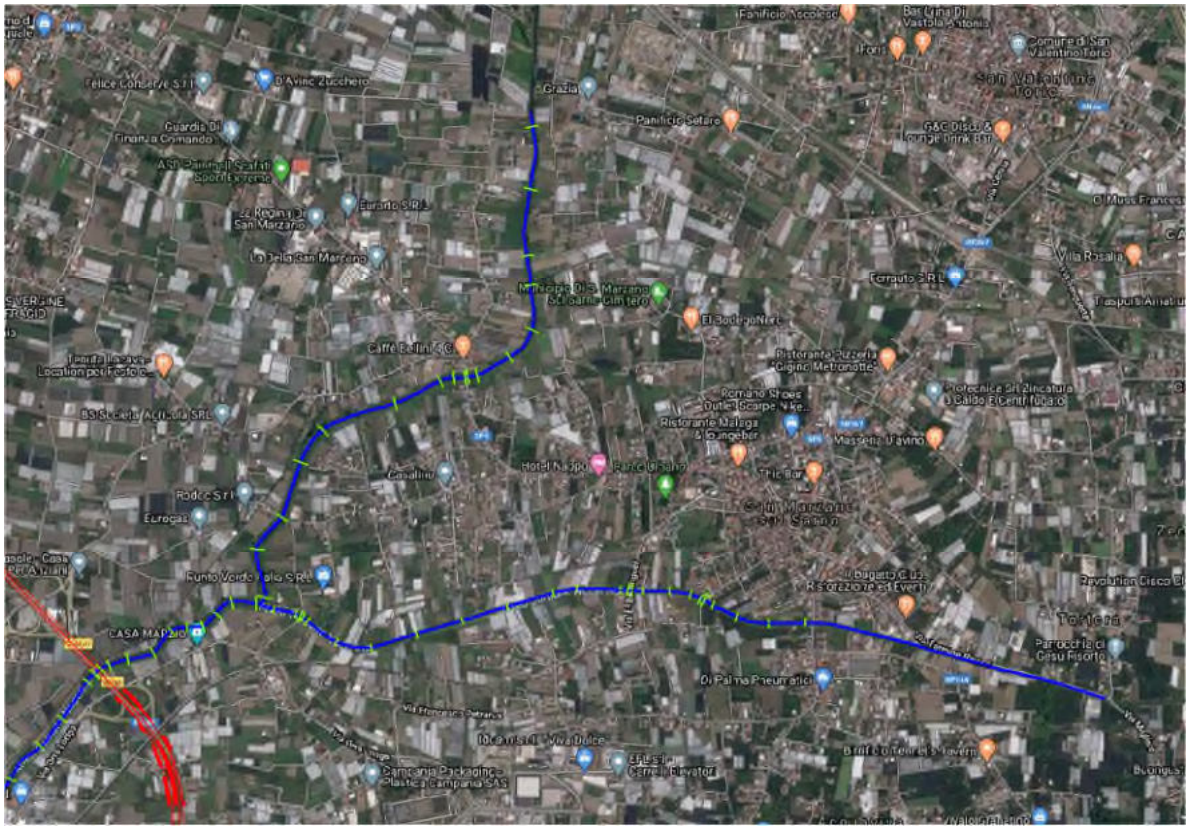


Figura 4 Ubicazione del tratto iniziale della modellazione numerica

Dopo la confluenza dei due corsi d'acqua, la schematizzazione numerica continua per altri 10 km fino alla foce nel golfo di Napoli.



Figura 5 Ubicazione del tratto terminale della modellazione numerica

4.1.1 Geometria e batimetria

Per la schematizzazione geometrica monodimensionale dell'alveo sono state create 26 sezioni per la schematizzazione di circa 2,5 km del tratto di fiume Nocerino implementato, mentre per il fiume Sarno sono state create 19 sezioni nel tratto di 3 km circa a monte della confluenza e 128 sezioni nella restante parte dell'asta fino alla confluenza.

La geometria di tali sezioni è stata creata estrapolando il dato dal DTM passo 1 m del Ministero dell'Ambiente, oltre che, nella fascia a cavallo dell'infrastruttura, dal rilievo celerimetrico appositamente realizzato per il progetto in esame.

Per garantire un'opportuna ricostruzione dell'alveo dei due corsi d'acqua è stata effettuata un'operazione di ricalibratura del dato estrapolato dal DTM per l'eliminazione delle imprecisioni restituite dal digital terrain model.

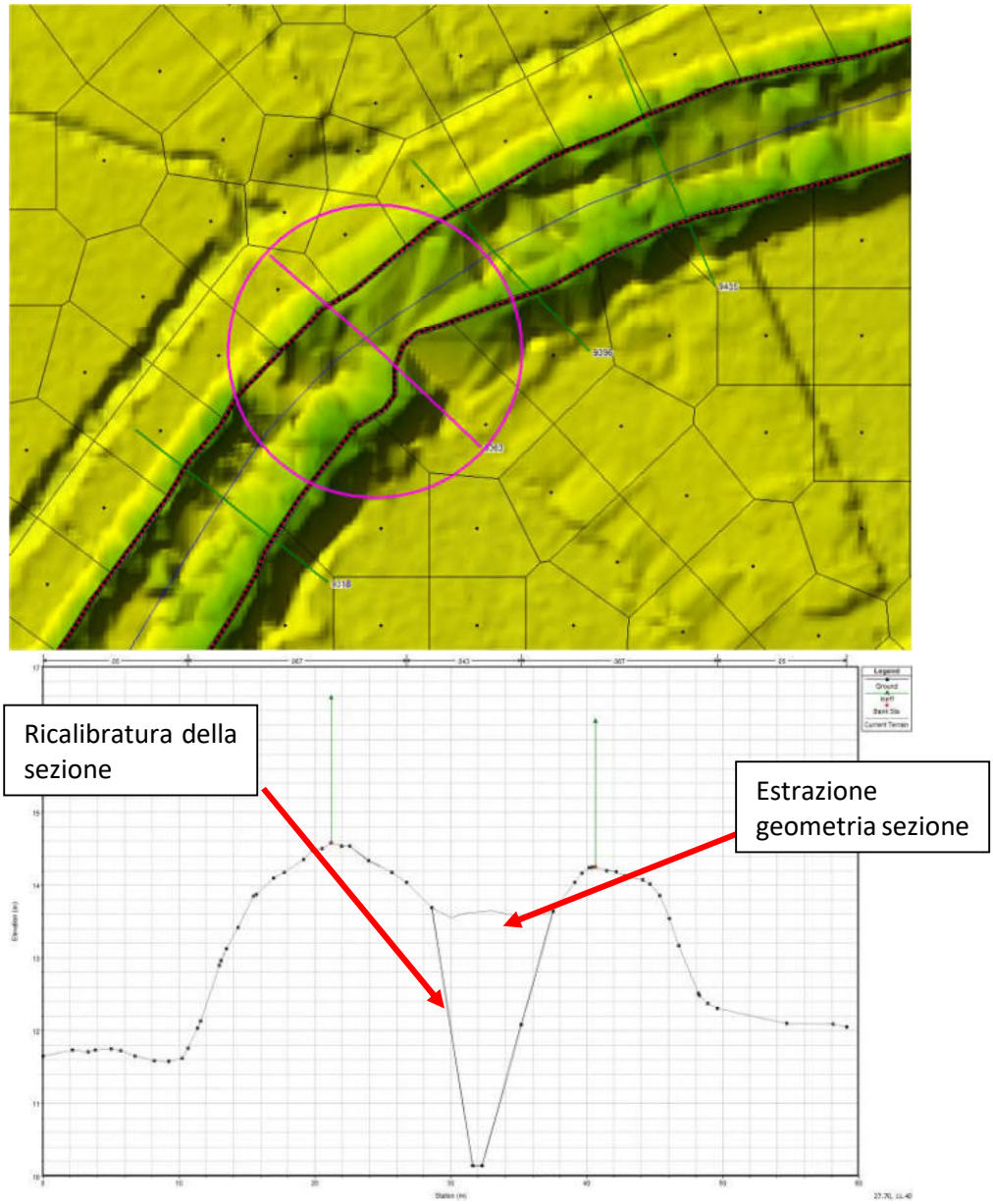


Figura 6 Ricalibratura delle sezioni d'alveo rispetto al dato DTM

Per inserire il dato batimetrico di fondo alveo per tutta l'estensione del corso d'acqua, si è proceduto ad analizzare il rilievo batimetrico/celerimetrico fornito dall'Agenzia Regionale Campana per la difesa del suolo, che oltre alle quote delle sponde riporta le quote dei fondali del fiume. Da questa analisi si è riscontrato che mediamente il livello idrico nel Sarno battuto durante il rilievo Lidar effettuato dal Ministero è di circa 2 m nel tratto in analisi.

Nello specifico si riporta di seguito il piano quotato riportato nel rilievo regionale circa 50 m a valle del ponte della statale 268 dove il fondo alveo è ad una quota di 10.65 m s.m., mentre dal dtm si evince una quota del fondo di 12.63 m s.m., circa 2 m.

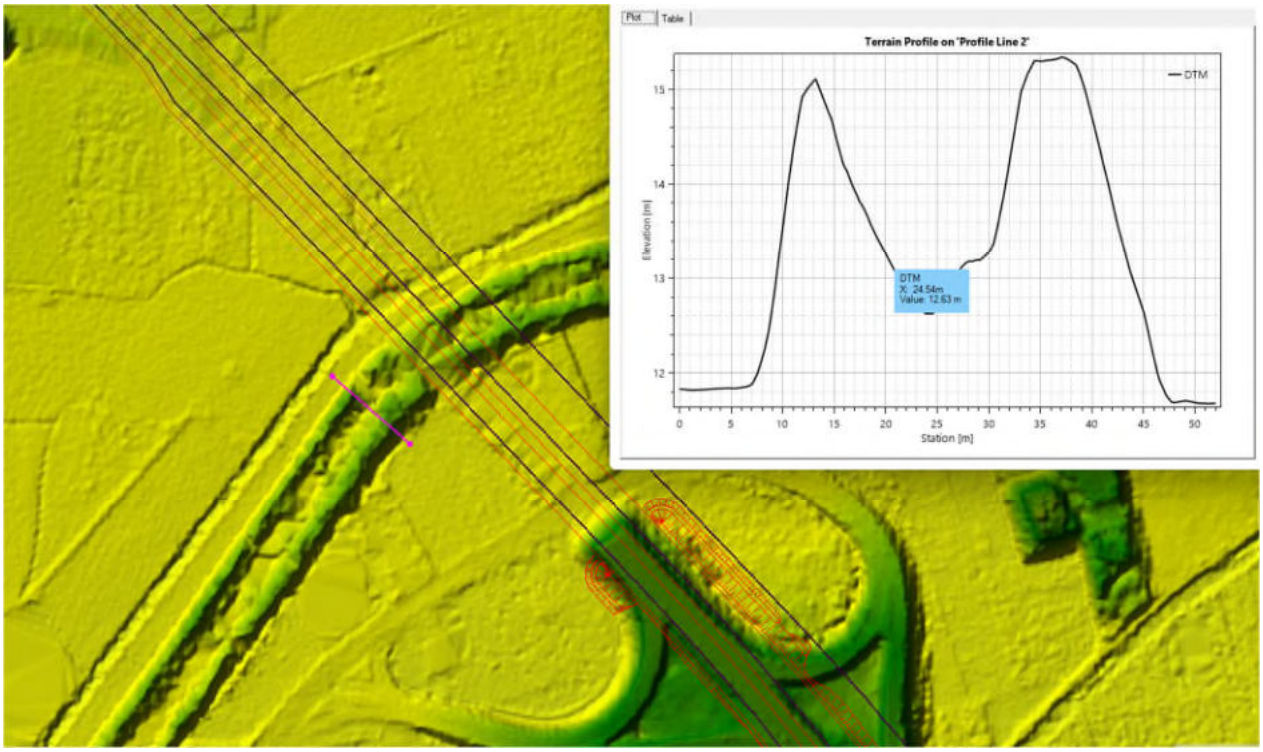


Figura 7 Dato geometrico estratto dal DTM ministeriale a valle di 50 m dal ponte della statale

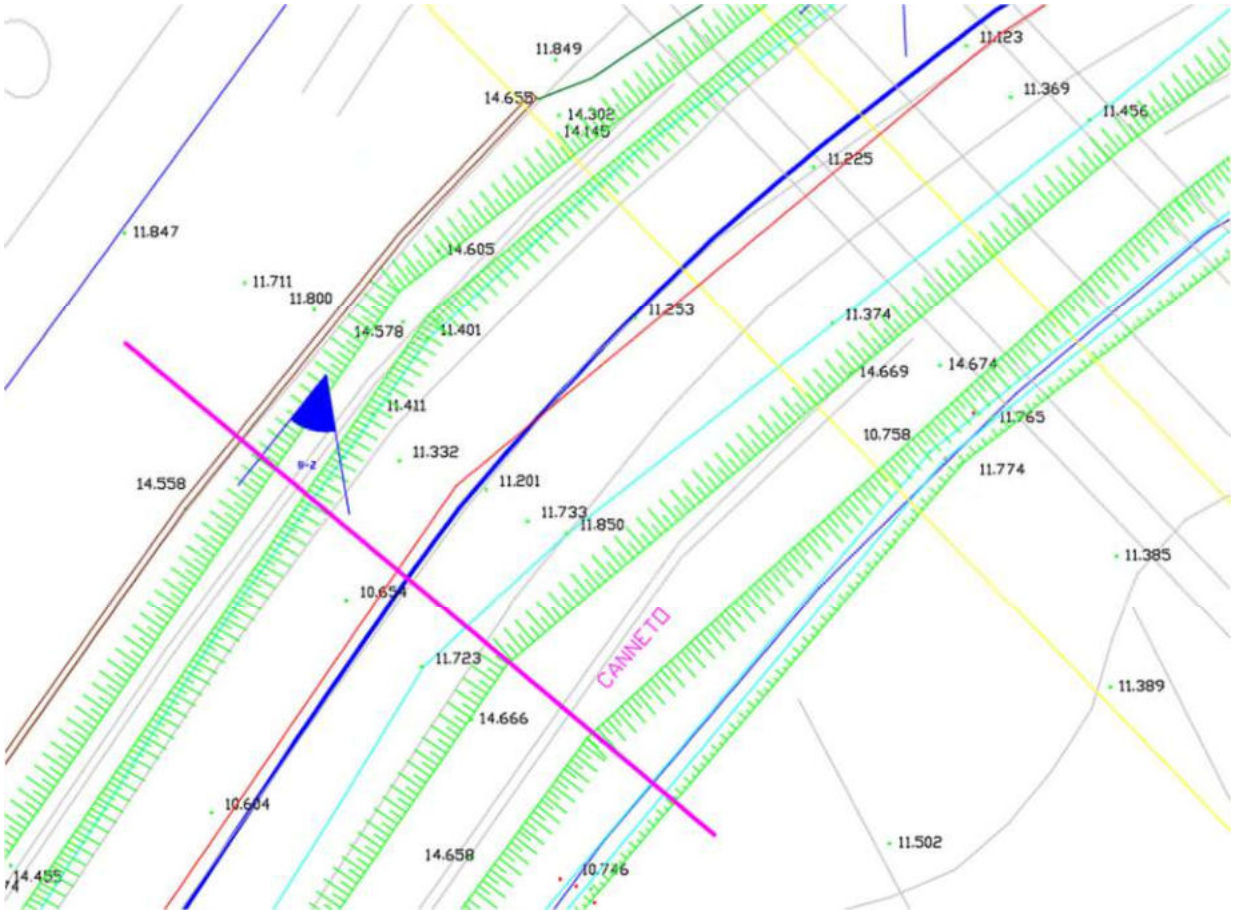


Figura 8 Estratto del rilievo celerimetrico dell'Agenzia Regionale Campana per la difesa del suolo in prossimità del ponte della statale (50 m a valle)

Estraendo il dato da DTM ministeriale in una sezione a circa 50 m più a monte del ponte si ottiene una quota del livello idrico battuto di 13.27 m s.m., mentre analizzando nella medesima posizione il dato del rilievo celerimetro regionale si leggono valori del fondo intorno a 11.12 – 11.20 m s.m.. Anche in tal caso, togliendo il valore di un tirante di circa 2 m dal dato geometrico del rilievo lidar si ottiene il valore del fondo dichiarato nel rilievo celerimetrico dell'Agenzia per la difesa del suolo Campana.

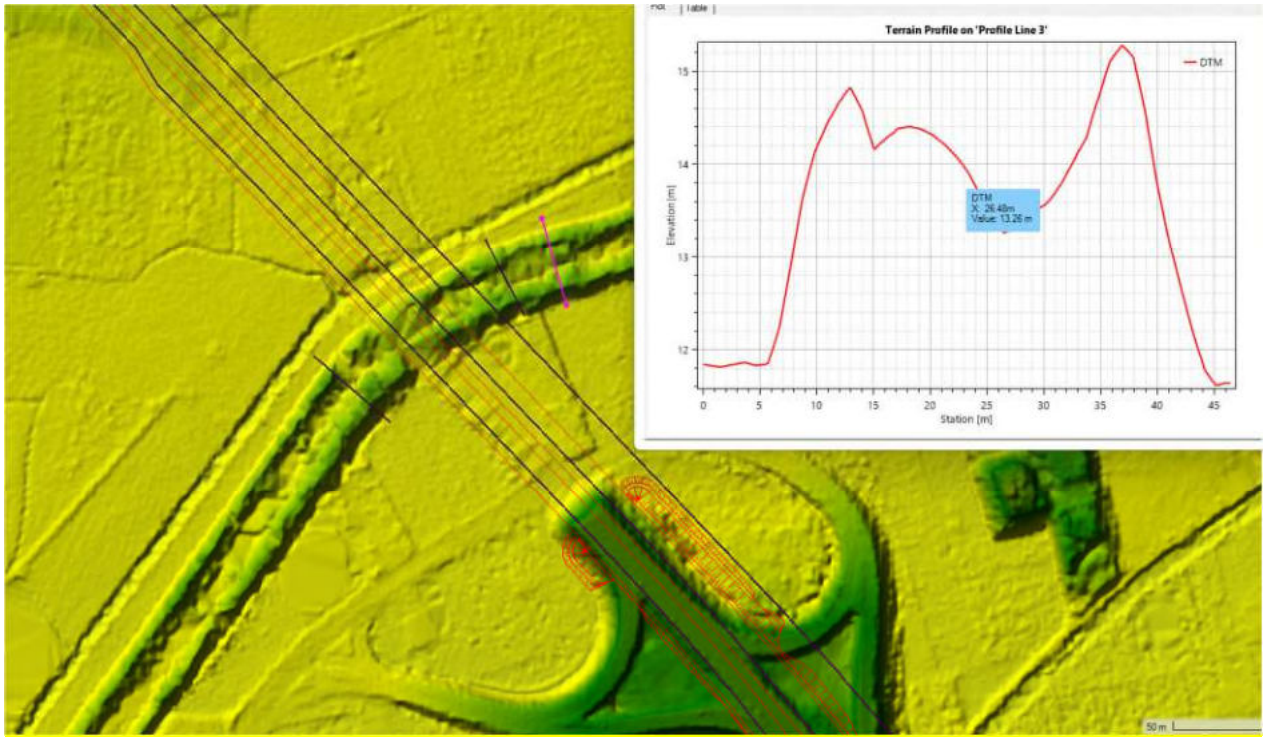


Figura 9 Dato geometrico estratto dal DTM ministeriale a monte di 50 m dal ponte della statale



Figura 10 Estratto del rilievo celerimetrico dell'Agenzia Regionale Campana per la difesa del suolo in prossimità del ponte della statale (50 m a monte)

Per l'implementazione della parte bidimensionale che schematizza le dinamiche di esondazione delle piene al di fuori dell'alveo è stato utilizzato il DTM Ministeriale passo 1 m.

Per la configurazione di progetto effettuato in ambiente BIM è stato integrato il DTM con il 3D definitivo stradale e il celerimetrico del piano campagna adiacente l'infrastruttura.

4.2 Costruzione del modello numerico

4.2.1 Schematizzazione geometrica

Lo schema generale di funzionamento del modello è quindi sintetizzabile come segue: la componente 1D rappresenta la parte dell'alveo inciso, a geometria prismatica; mentre le aeree attigue ai due corsi d'acqua che sono sede di potenziali fenomeni idrodinamici di allagamento, sono stati schematizzate dalla componente bidimensionale del modello.
Di seguito si riportano le tabelle con il riepilogo del codice di progressiva di ciascuna sezione di calcolo inserita nel modello numerico suddivisa per i tratti d'asta simulati.

Tabella 8 Elenco delle sezioni traversali inserite nel modello numerico del fiume Alveo Comune Nocerino a monte della confluenza

River station (m)	River station (m)
7923	4680
7420	4336
6961	3680
6586	3023
6457	2368
6401	1711
6245	1218
5962	723
5588	645
5437	605
5378	527
5278	227

Tabella 9 Elenco delle sezioni traversali inserite nel modello numerico del fiume Sarno a monte della confluenza

River station (m)	River station (m)
12874	11598
12610	11539
12325	11326
12196	11000
12006	10836
11856	10589
11698	10415
11660	10205
11647	

Tabella 10 Elenco delle sezioni traversali inserite nel modello numerico del fiume Sarno a valle della confluenza

River station (m)	River station (m)	River station (m)	River station (m)	River station (m)	River station (m)
10158	7544	5881	4982	3039	1724
10050	7437	5861	4928	3015	1667
9965	7410	5812	4906	2928	1553
9887	7388	5744	4785	2827	1418
9824	7351	5662	4706	2768	1235
9751	7310	5604	4661	2752	1164
9629	7220	5552	4625	2705	1088
9518	7143	5478	4603	2514	981
9435	7121	5415	4568	2387	940
9396	7042	5359	4531	2285	921
9363	6896	5279	4463	2240	877
9318	6751	5251	4351	2220	742
9130	6575	5222	4284	2189	564
8979	6325	5206	4061	2088	531
8789	6158	5199	3919	1993	512
8648	6097	5145	3863	1957	447
8574	6081	5137	3844	1913	375
8311	6076	5131	3800	1869	343
8123	6049	5107	3685	1829	308
7939	5980	5074	3499	1816	264
7710	5917	5013	3144	1787	114

Per quanto concerne invece l'implementazione dello schema bidimensionale, la descrizione geometrica utilizzata è a maglie di calcolo del tipo flexible mesh, adatte a discretizzare in maniera dettagliata le varie geometrie da ricostruire con particolare interesse alla viabilità interferente.
Il numero totale delle celle di calcolo adottate nel dominio 2D è di 138260. La schematizzazione 2D flexible mesh ha consentito di definire celle variabili sia in dimensione sia in forma. La dimensione della maglia principale è costituita da celle 20X20 m; con l'inserimento delle breakline di dettaglio, il dominio di calcolo è passato da celle 20x20 m a celle anche 2x2 m nei punti in cui si è discretizzato al massimo dettaglio le discontinuità morfologiche del terreno con particolare interesse alle zone in prossimità delle viabilità interferenti e soprattutto quella oggetto di studio SS268.

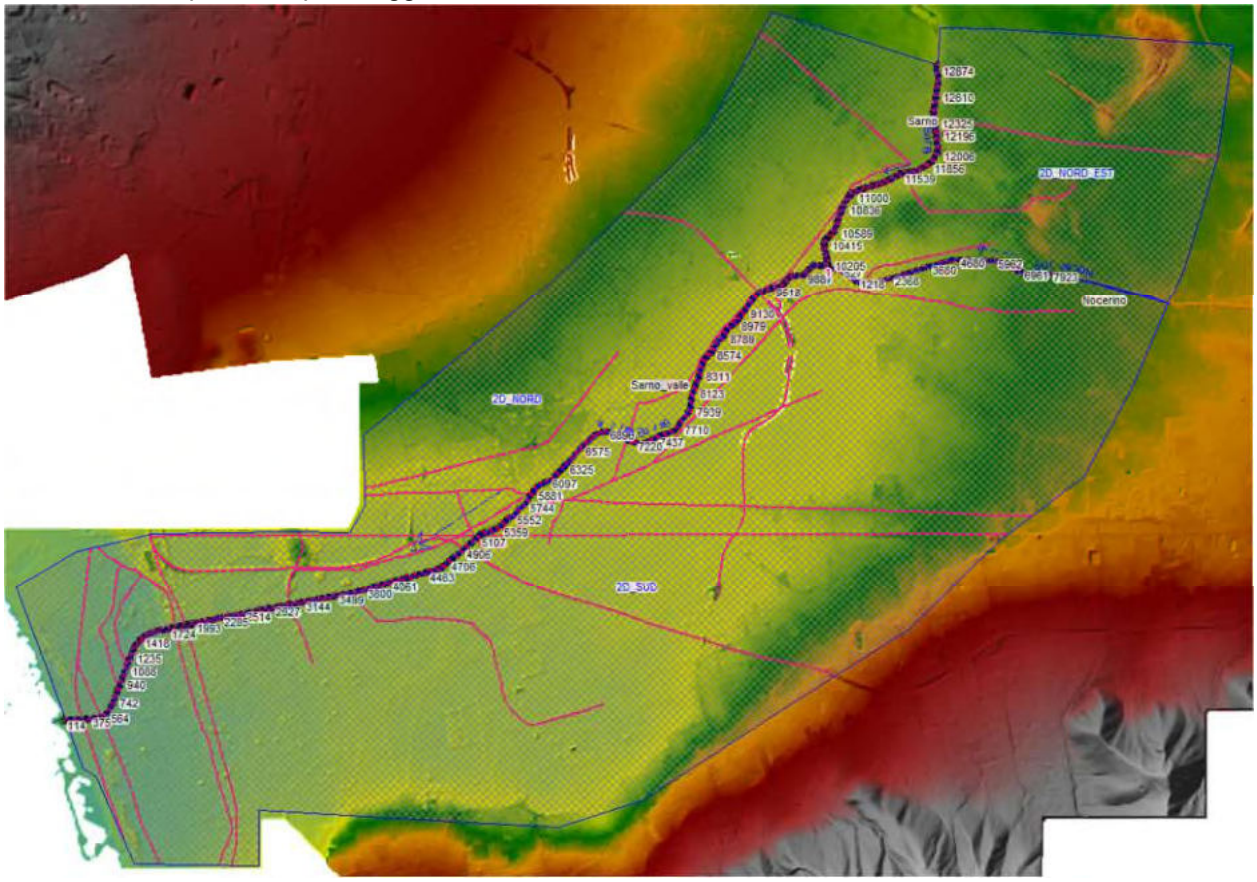


Figura 11 Discretizzazione con celle di calcolo per le aree 2D

Le strutture degli attraversamenti ed in particolare della SS268 sono state inserite nella componente monodimensionale come "Bridge" mentre nella componente bidimensionale le strutture interferenti con la corrente sono state inserite come dato geometrico del terreno associato alle maglie di calcolo.

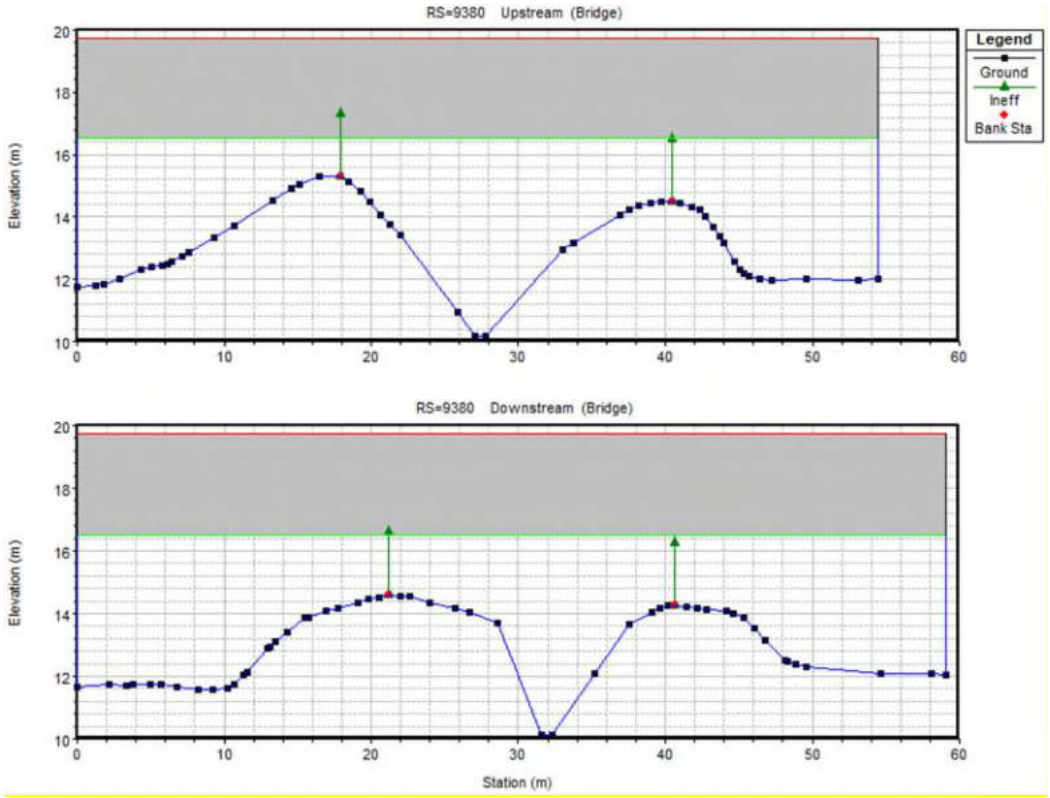


Figura 12 Struttura "Bridge" inserita nel modello numerico nella componente monodimensionale

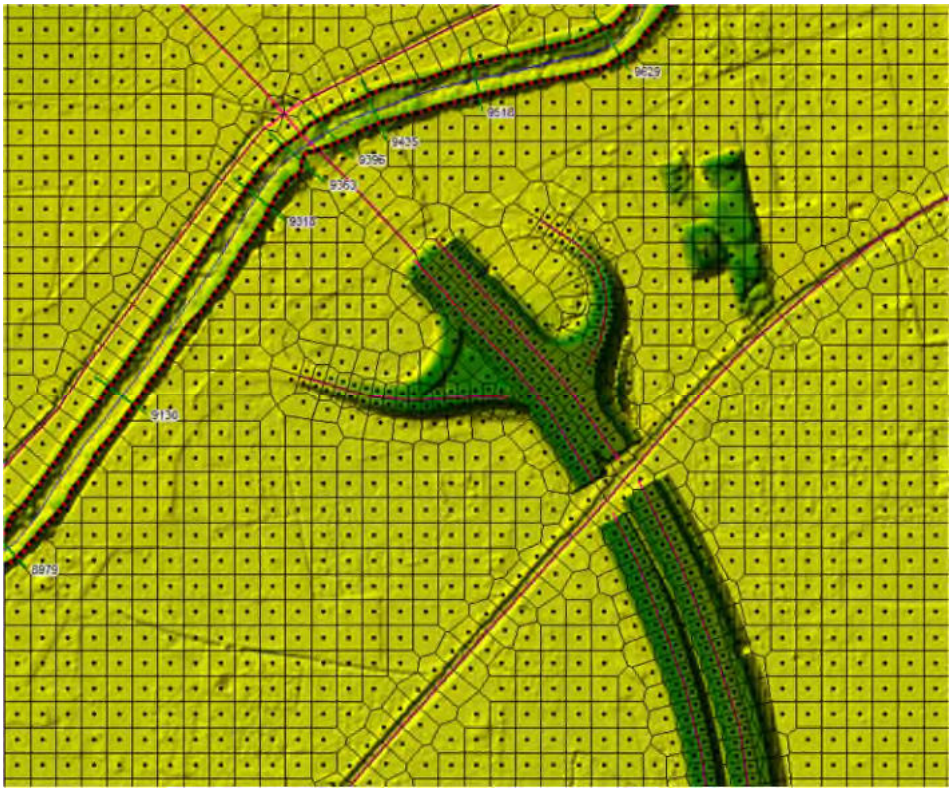


Figura 13 Dettaglio della maglia di calcolo implementata

Il collegamento tra il modello monodimensionale e bidimensionale è effettuato mediante la realizzazione di opportune lateral structure. Tali strutture schematizzano l'andamento delle sommità spondali dei corsi d'acqua e determinano il limite di funzionamento tra la componente monodimensionale dell'alveo e la parte di espansione schematizzata dalla struttura modellistica bidimensionale.

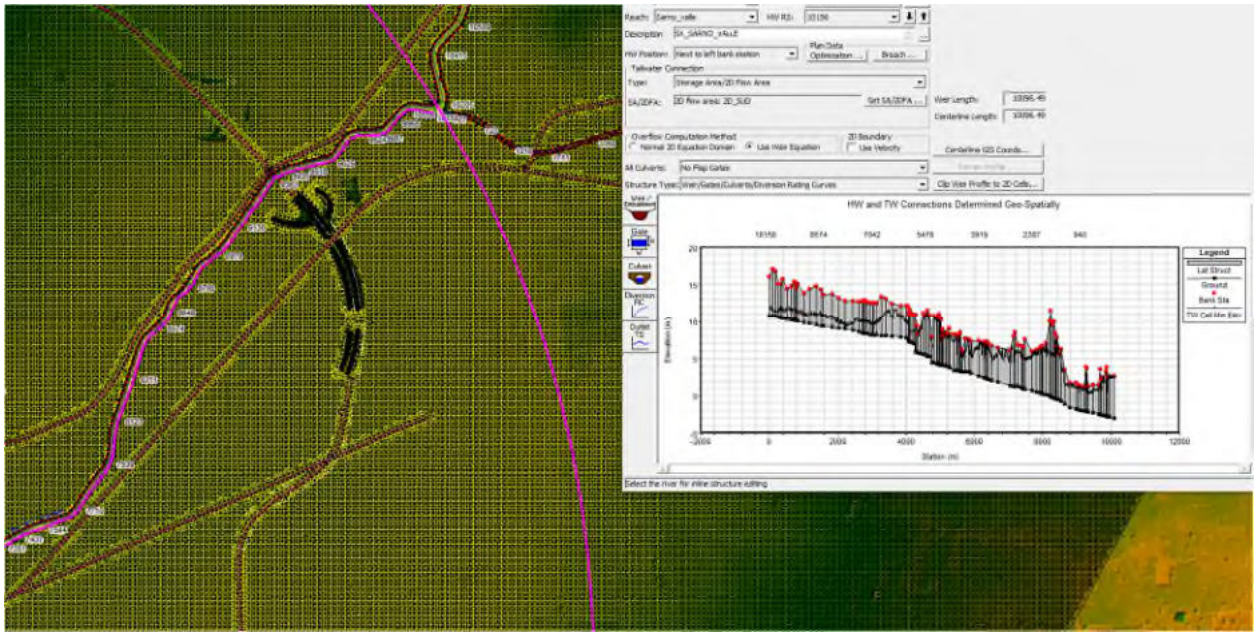


Figura 14 Collegamento idraulico tra geometria 1D e 2D (lateral structure)

4.2.2 Assegnazione dei coefficienti di scabrezza

La determinazione dei parametri di scabrezza da associare alle sezioni di calcolo presenta non poche criticità data la significativa influenza di tali valori sui livelli di corrente e la contestuale assenza di una regola di calcolo univoca. Nel caso dei corsi d'acqua oggetto di studio non è peraltro possibile sopperire a tale mancanza facendo affidamento ad adeguati dati di calibrazione.
Stanti queste premesse, la scelta dei parametri di scabrezza è stata condotta sulla base di un criterio per quanto possibile deterministico nella caratterizzazione della singola sezione o porzione di territorio.
In generale, la scabrezza caratteristica di un tratto di corso d'acqua è data dalla somma di molteplici fattori tra loro indipendenti, quali:

- la morfologia e lo sviluppo planimetrico dell'alveo;
- il materiale costituente il fondo ed i piani golenali;
- l'irregolarità delle sezioni trasversali;
- la presenza di ostruzioni;
- la presenza di vegetazione.

Ognuno dei fattori sopra elencati è in grado di esercitare, in particolari condizioni, un effetto elevato sulle condizioni di deflusso della corrente. Tale effetto può, per ogni elemento, essere analizzato e tenuto in considerazione a diverso livello di dettaglio; è però necessario adottare un approccio coerente con la determinazione degli altri fattori nonché con il grado di incertezza associato allo studio.
In base alle considerazioni sopra esposte risulta quindi adeguato alle finalità e al dettaglio dello studio, nonché alla tipologia di informazioni disponibili, utilizzare un metodo globale di calcolo dei valori di scabrezza, applicato alla singola porzione di sezione.

In particolare, si è ritenuto di procedere proponendo una divisione di ciascuna sezione trasversale in tratti caratterizzati da scabrezza omogenea secondo quanto illustrato in Tabella 11

.

Tabella 11 Suddivisione dei tratti di sezione trasversale caratterizzati da scabrezza omogenea

Codice identificativo del tratto	Ubicazione
1	Parte incisa dell'alveo, in cui defluiscono le basse portate
2	Tratto vegetato in sponda sinistra
3	Tratto vegetato in sponda destra
4	Tratto golenale in sponda sinistra esterno al tratto vegetato rispetto alla parte incisa dell'alveo
5	Tratto golenale in sponda destra esterno al tratto vegetato rispetto alla parte incisa dell'alveo

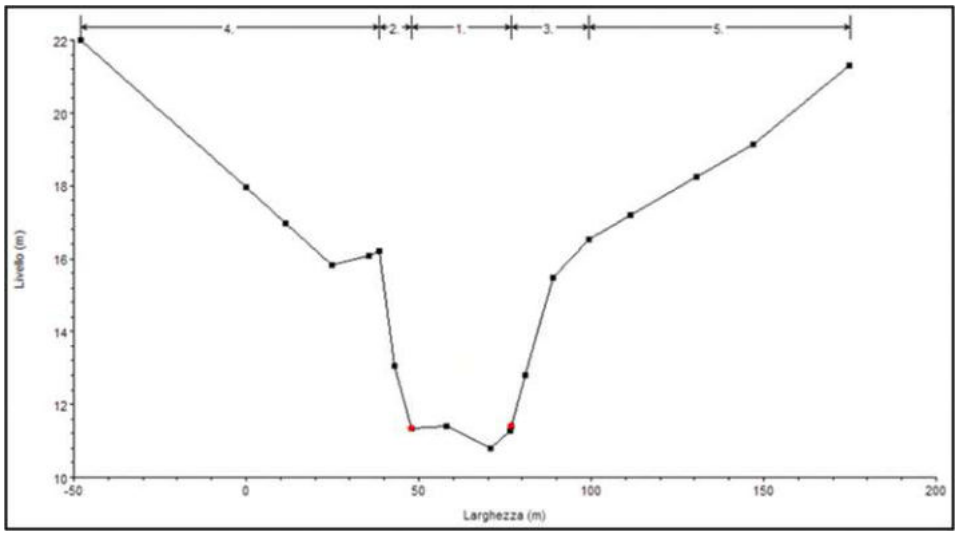


Figura 15 Esempio di suddivisione in tratti di sezione trasversale caratterizzati da scabrezza omogenea

Per l'attribuzione dei valori di scabrezza si è fatto riferimento principalmente alla formulazione proposta dal manuale "Open channel hydraulycs", Ven te Chow (Tabella 12).
I valori delle scabrezze attribuiti alla componente monodimensionale del modello e quindi a ciascuna sezione di calcolo sono consultabili nell'Allegato II; in ogni sezione trasversale vengono riportati i valori di Manning associati nella parte alta dell'immagine come raffigurato in Figura 16.

Tabella 12 Valori di scabrezza (fonte: "Open channel hydraulycs", Ven te Chow)

tipo di superficie	Minimo	Normale	Massimo
ALVEI DI PIANURA			
non vegetati, rettilinei, corrente regolare	0.025	0.030	0.033
come sopra ma con pietre e alghe	0.030	0.035	0.040
non vegetati, tortuosi con mulinelli e rapide	0.033	0.040	0.045
come sopra ma con pietre e alghe	0.035	0.045	0.050
come sopra, in magra	0.040	0.048	0.055
non vegetati, tortuosi, pietre, mulinelli e rapide	0.045	0.050	0.060
molto irregolari e alghe molto fitte	0.075	0.100	0.150
ALVEI DI MONTAGNA (SPONDE CON ALBERI E CESPUGLI)			
sul fondo: ghiaia, ciottoli e massi radi	0.030	0.040	0.050
sul fondo: ciottoli e grandi massi	0.040	0.050	0.070
GOLENE E PIANI INONDABILI			
prato senza cespugli, erba bassa	0.025	0.030	0.035
prato senza cespugli, erba alta	0.030	0.035	0.050
campi incolti	0.020	0.030	0.040
coltivazioni a filari	0.025	0.035	0.045
colture di cereali in pieno sviluppo	0.030	0.040	0.050
aree coi cespugli sparsi e erba alta	0.035	0.050	0.070
aree coi cespugli bassi e alberi, in inverno	0.035	0.050	0.060
aree con cespugli bassi e alberi, in estate	0.040	0.060	0.080
cespugli fitti, in inverno	0.045	0.070	0.110
cespugli fitti, in estate	0.070	0.100	0.160

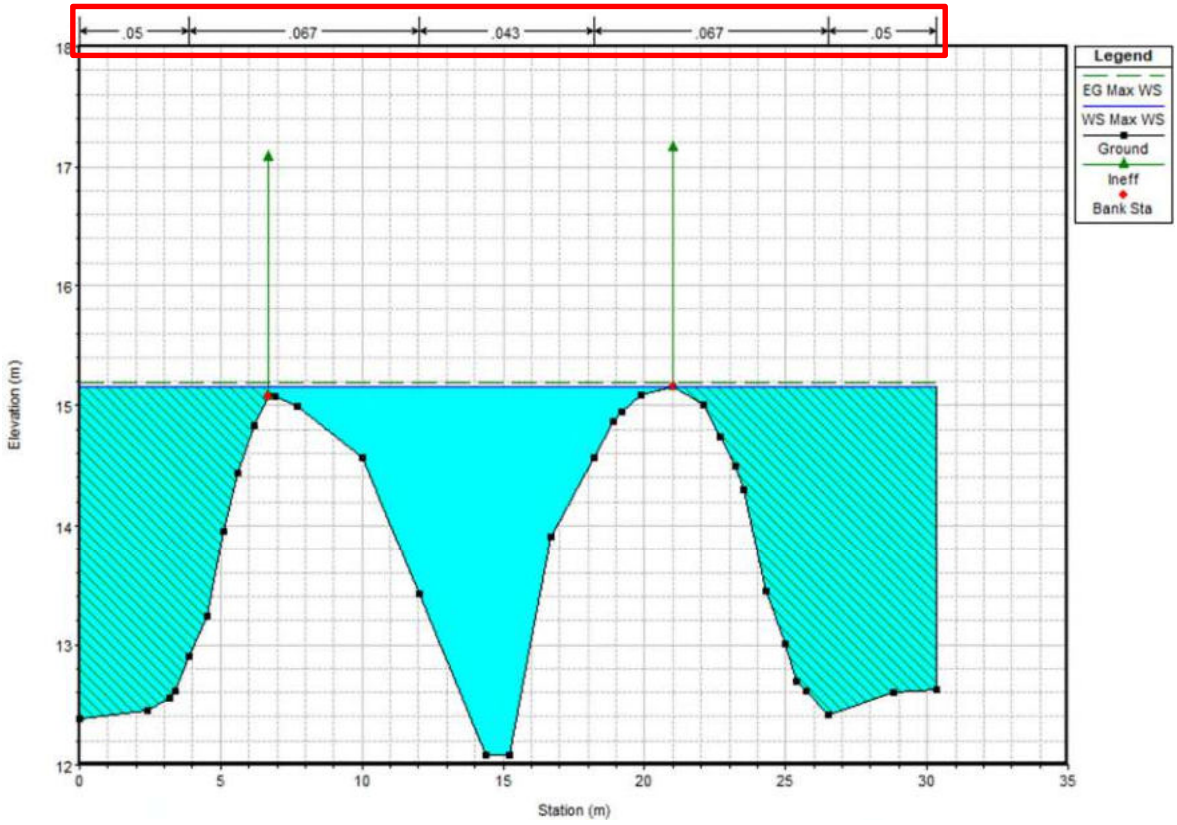


Figura 16 Valori del coefficiente di Manning inseriti in ogni sezione di calcolo

Sintetizzando, in generale è stato utilizzato un valore di scabrezza di Manning pari a 0,043, per la porzione d'alveo naturale, per la componente ripariale è stato attribuito un valore pari a 0,067 per la restante parte

fuori dalle sponde 0,05. Mentre nella schematizzazione bidimensionale delle aree soggette ad esondazioni sono stati attribuiti i coefficienti di Manning secondo la schematizzazione riportata in Figura 17.

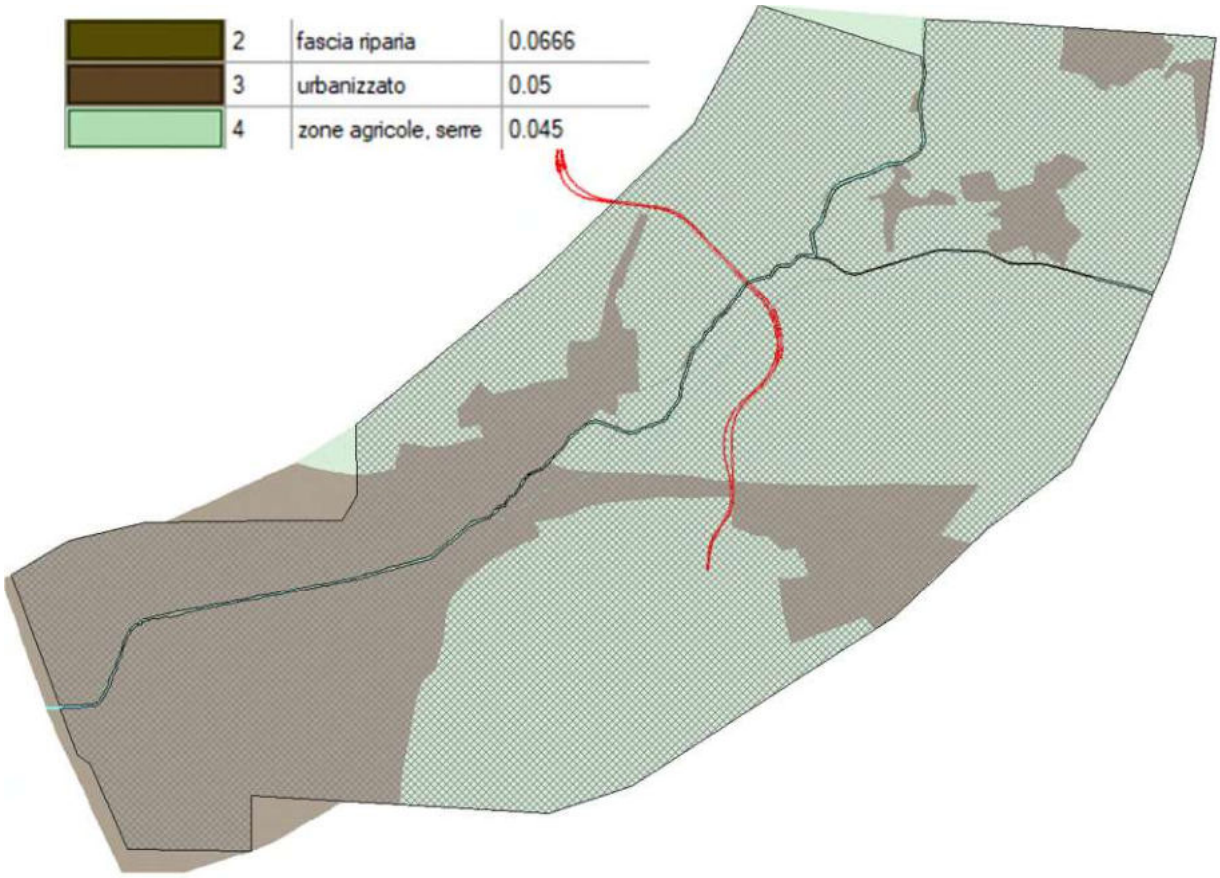


Figura 17 Distribuzione spaziale dei coefficienti di Manning per la componente bidimensionale del modello numerico

4.2.3 Condizioni al contorno

Come condizione al contorno di monte di ciascuna asta è stato imposto, per ogni simulazione, l'idrogramma corrispondente per assegnato tempo di ritorno, definita nell'ambito delle stime delle portate descritto nel capitolo dell'idrologia.
Alla condizione al contorno di valle è stato invece imposto il livello del mare.

4.2.4 Taratura del modello

L'adeguatezza delle assunzioni modellistiche, in termini di scabrezze delle superfici, quote di fondo alveo e di condizioni al contorno adottate, è stata valutata, non disponendo di dati storici a riguardo, attraverso il confronto con gli elaborati di pericolosità idraulica del PGRA.
Il confronto dei risultati modellistici con le carte del PGRA è stato realizzato termini di perimetrazione degli areali a parità di tempo di ritorno, ma non di quota dei tiranti idrici, in quanto tali valori non sono espressi nel piano.
Per la valutazione della coerenza dei risultati modellistici con le aree di pericolosità idraulica è stato prodotto, per il tempo di ritorno duecentennale, un elaborato di confronto riportato in allegato alla presente relazione.

4.3 Simulazioni idrauliche

Le analisi idrauliche effettuate sono volte a verificare l'impatto idraulico delle aste oggetto di studio nella configurazione attuale e nelle soluzioni progettuali della SS268.

In particolare, lo studio del funzionamento idraulico di ciascuna opera in progetto verte sulla verifica del franco idraulico e ubicazione spalle e pile secondo le modalità indicate dalle recenti NTC2018 nel capitolo dedicato alla compatibilità idraulica.
Secondo tale norma valgono i seguenti principali vincoli:

- la portata di verifica di progetto è quella caratterizzata da tempo di ritorno duecentennale;
- il franco calcolato sul livello della portata di progetto deve essere di 1,5 m;
- il manufatto non deve interessare con rilevati, spalle e pile la sezione del corso d'acqua;
- qualora fosse necessario realizzare pile in alveo, la luce netta minima tra pile contigue, o fra pila e spalla del ponte, non deve essere inferiore a 40 m misurati ortogonalmente al filone principale della corrente.

Nelle immagini a seguire si riportano gli stralci delle risultanze in termini di velocità, superfici e tiranti, estratti dai risultati complessivi descritti in allegato alla presente relazione. I calcoli numerici, sotto forma di profili, tabelle e sezioni trasversali, sono posti in Allegato II, mentre nella documentazione grafica del progetto vengono riportate le planimetrie di allagamento per ciascuna configurazione modellata.

Nella seguente **Tabella 13** si riportano i risultati delle simulazioni idrauliche effettuate per la verifica della compatibilità idraulica dell'opera in progetto per il Viadotto VI02 che attraversa l'alveo Sarno.

Tabella 13 Risultati delle simulazioni idrauliche sul Viadotto VI02 (attraversamento alveo Sarno)

Evento	Progr. Asse stradale	Quota estradosso impalcato minima di progetto Lotto 2	Quota intradosso impalcato minima di progetto Lotto 2	Livello idrico Configurazione di stato di fatto	Livello idrico Configurazione di progetto	Franco (Normativa)	Fr progetto (calcolato)
		(m s.l.m.)	(m s.l.m.)	(m s.l.m.)	(m s.l.m.)	(m)	(m)
TR30	3+254	19,57	16,52	13,35	13,42	1,5	>2.0
TR100				13,88	13,88	1,5	>2.0
TR200				14,00	14,00	1,5	>2.0
TR300				14,00	14,00	1,5	>2.0

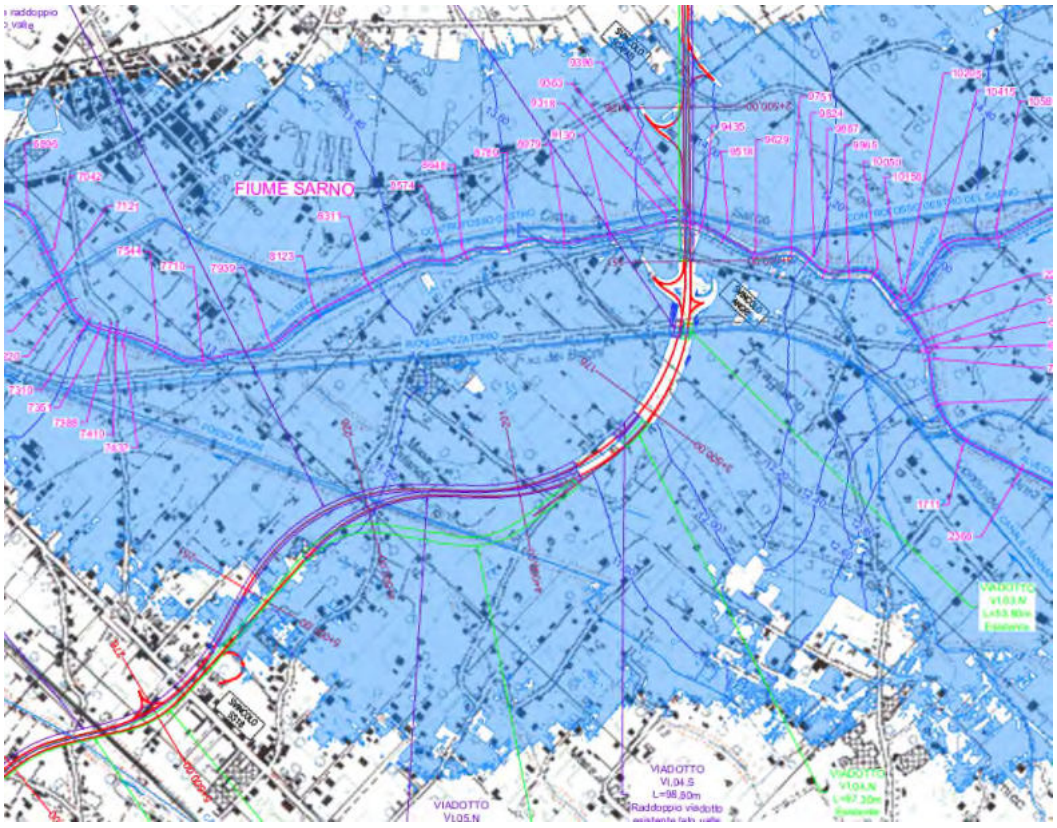


Figura 18 Tavola con sintesi dei livelli per la TR200 (linee blu quotate) rispetto ai viadotti di progetto (v. elaborato grafico dedicato e allegati).

Tabella 14 Viadotti e interferenze con allagamenti del Sarno

ID	Carreggiata	Prog. Iniziale	Prog. Finale	Lunghezza	N. campate	L campate in asse	Q intradosso sul c. acqua	Q estradosso sul c. acqua	Livello TR=200	Prog.	Q min intradosso	Q min estradosso	Livello TR=200	Prog.	Q max intradosso	Q max estradosso	Livello TR=200	Prog.	Larghezza Pile	Note
				m		*m*	*m slm*	*m slm*	*m slm*		*m slm*	*m slm*	*m slm*		*m slm*	*m slm*	*m slm*		*m*	
VI 02	S	0+480	2+999	2518	92	Da 22 a 26 m; Su attraversamento Sarno da 40 a 75 m	16.60	19.49	14.00	2+868	16.51 (Prog. 2+907.95)	19.05	12.10	2+999.09 (S02)	27.29	29.28	-	0+480.27 (S01)	Base 1.5 m; Sommità 2.70 m	
VI 02	N	0+446	2+935	2488	85	Da 22 a 26 m; Su attraversamento Sarno da 40 a 75 m	16.52	19.60	14.00	2+806	16.46 (Prog. 2+850.16)	19.15	12.10	2+935.66 (S02)	27.22	29.22	-	0+446.72 (S01)	Base 1.5 m; Sommità 2.70 m	
VI 03	S	3+196	3+251	54	1	54.2	16.43	18.62	12.00	3+223	16.41	18.60	12.00	3+251.00	16.44	18.63	12.00	3+196.26	-	Livelli da allagamenti Sarno
VI 03	N	3+136	3+190	53	1	54.2	16.36	18.55	12.10	3+163	16.29	18.48	12.10	3+190.30	16.42	18.61	12.10	3+136.53	-	Livelli da allagamenti Sarno
VI 04	S	3+536	3+634	98	2	49.4	16.32	18.51	11.80	3+585	16.31	18.50	11.82	3+536.03	16.33	18.52	11.79	3+634.83	Base 1.5 m; Sommità 2.70 m	Livelli da allagamenti Sarno
VI 04	N	3+488	3+585	97	2	49	16.33	18.52	11.85	3+536	16.32	18.51	11.94	3+488.10	16.34	18.53	11.84	3+585.42	Base 1.5 m; Sommità 2.70 m	Livelli da allagamenti Sarno
VI 05	S	3+799	6+200	2401	61	Da 26.0 m a 53.3 m	18.37	20.56	11.58	4+500	16.42	18.57	11.74	3+799.38	19.66	21.84	12.95 (B.11)	5+641.55	Base 1.5 m; Sommità 2.70 m	Livelli da verifica monodimensionale B.11
VI 05	N	3+761	6+127	1366	72	Da 26.0 m a 53.3 m	18.08	20.33	11.61	4+406	16.42	18.60	11.74	3+761.47	19.88	21.87	12.95 (B.11)	5+605.58	Base 1.5 m; Sommità 2.70 m	Livelli da verifica monodimensionale B.11



Figura 19 Inviluppo dei massimi livelli – Configurazione SDF – Evento TR 200 anni

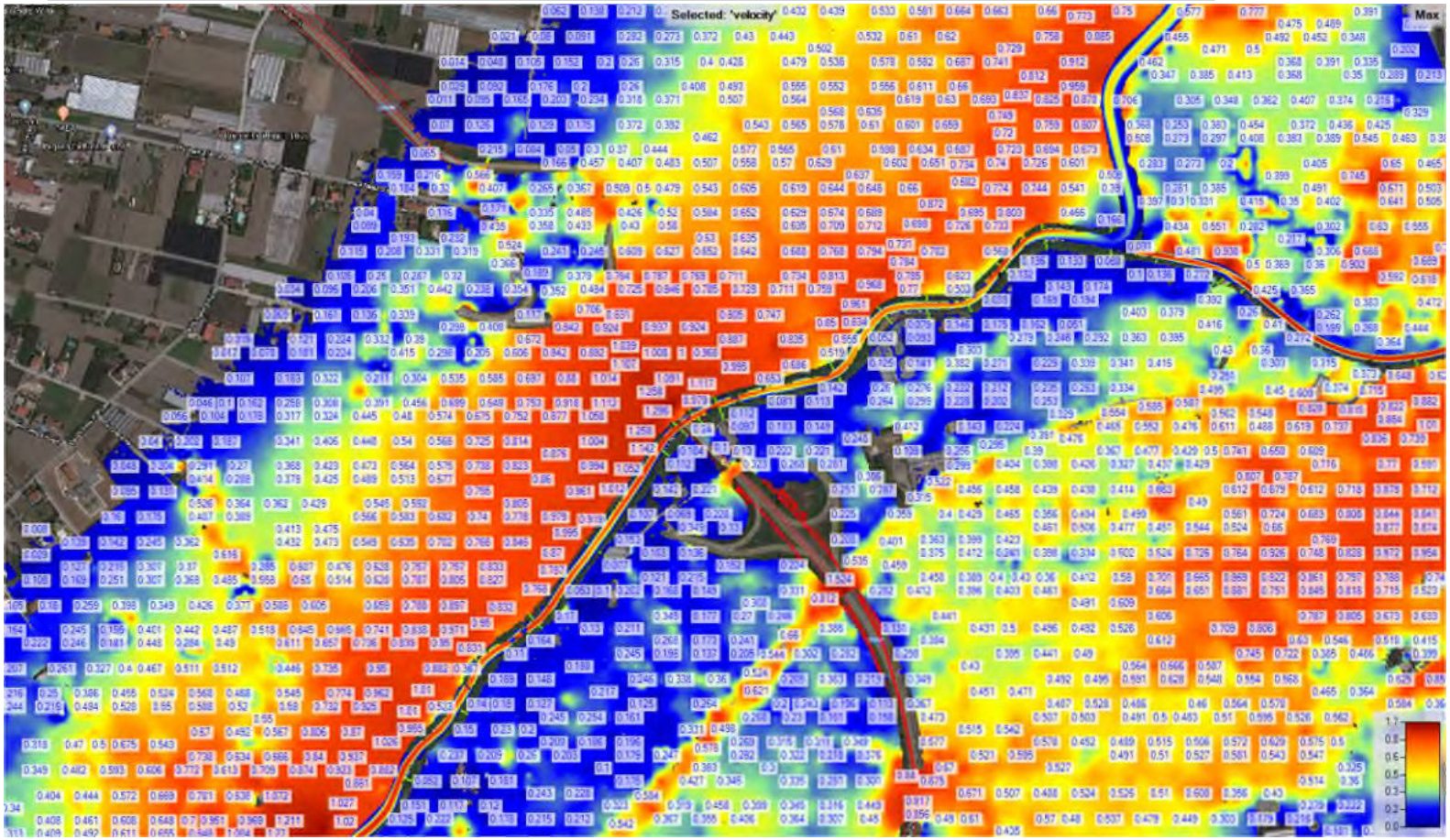


Figura 20 Inviluppo delle massime velocità – Configurazione SDF – Evento TR 200 anni



Figura 21 Inviluppo dei massimi livelli – Configurazione PRJ – Evento TR 200 anni

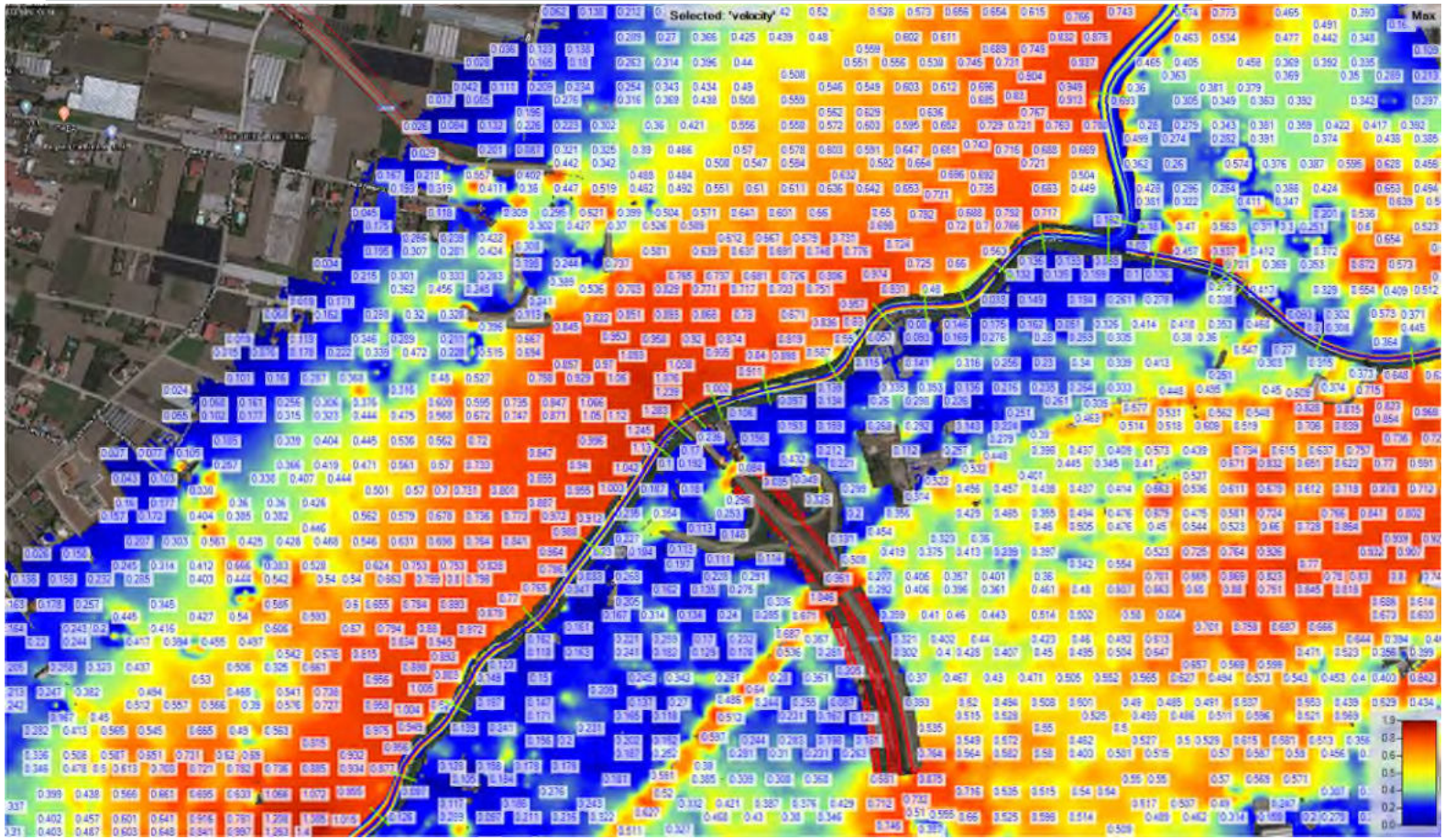


Figura 22 Inviluppo delle massime velocità – Configurazione PRJ – Evento TR 200 anni

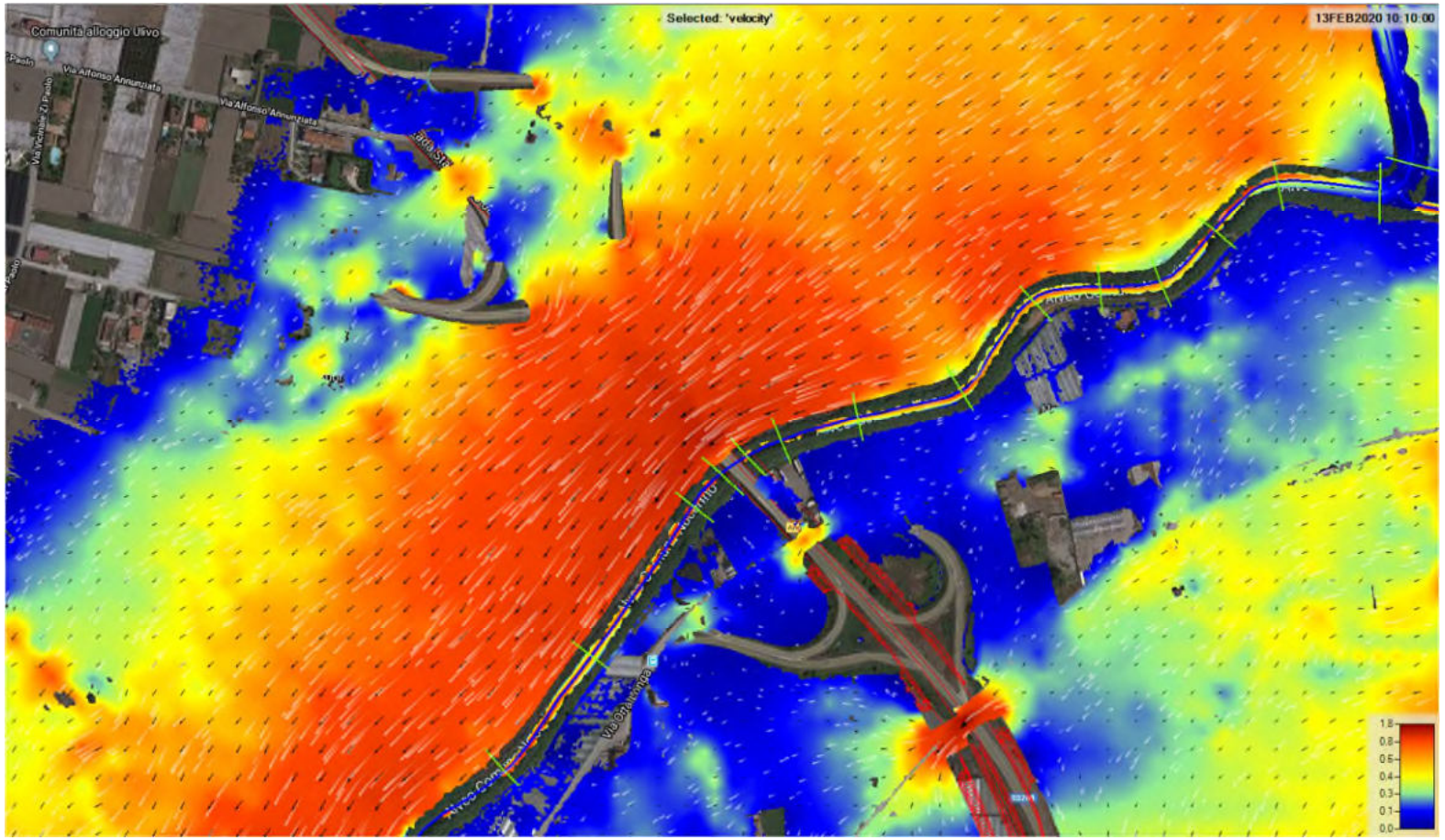


Figura 23 Direzioni del deflusso di piena – Configurazione PRJ – Evento TR 200 anni

4.1 Verifiche a scalzamento

Tra i corsi d'acqua interessati dal progetto, solo il fiume Sarno agisce mediante tiranti e velocità tali da generare potenziali azioni di trascinamento sulle opere presenti.
A riguardo l'analisi bidimensionale condotta sul fiume Sarno permette di avere un quadro molto dettagliato delle azioni idrodinamiche agenti su pile, spalle e rilevati.

Da tale quadro si evince che:

- non sono presenti pile all'interno del sistema arginale del Sarno, zona maggiormente sollecitata dai deflussi;
- il campo di moto nelle aree golenali descrive velocità massime nell'ordine di 1.0-1.5 m/s;
- i tiranti massimi nelle zone a maggior deflusso risultano nell'ordine di 1.5-2.0 m;
- in golena sono ampie le aree allagate, ma sia i campi di moto che i tiranti risultano mediamente modesti: il campo delle velocità esterne all'alveo in impatto con le pile varia da un valore massimo di 1,2 m/s a e 0,3 m/s, mentre il tirante massimo che si registra è di circa 1,7 m.

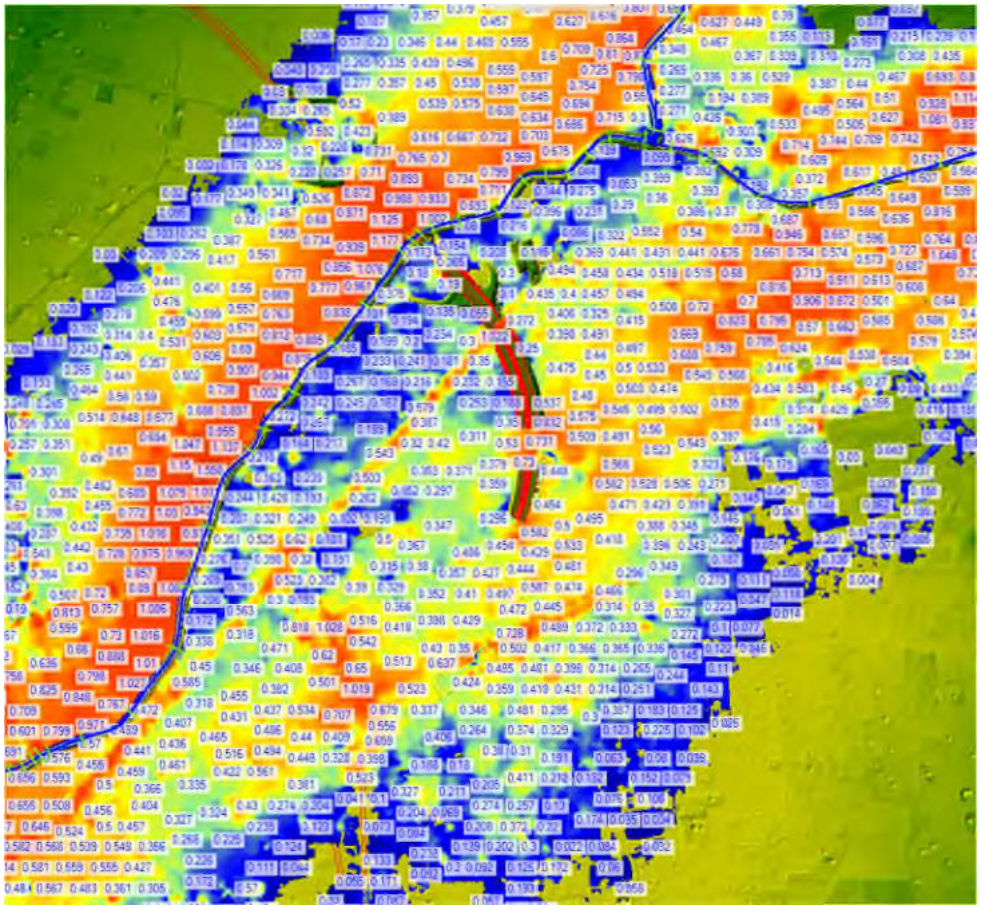


Figura 24 Campo delle velocità in prossimità della viabilità in progetto.

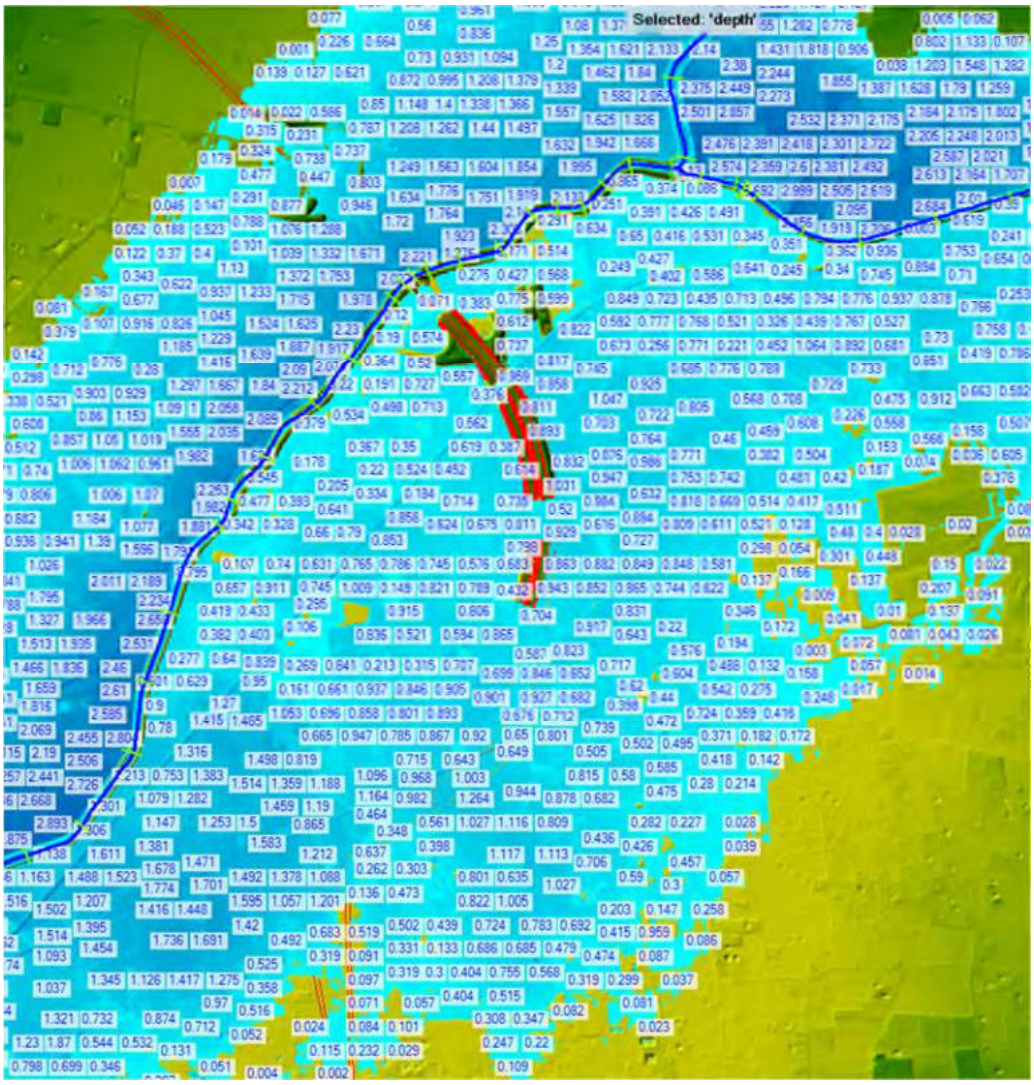


Figura 25 Inviluppo dei massimi tiranti idrici in prossimità della viabilità in progetto.

Nello specifico, come evidenziato sopra, le pile degli attraversamenti non ricadono all'interno dell'alveo del fiume Sarno, ma bensì nelle aree di esondazione esterne alle arginature. Tali aree sono caratterizzate prevalentemente da campi inerbiti su materiale consolidato e coeso. In tale contesto, la presenza di apparati radicali incide significativamente sulla coesione e la resistenza al trascinamento del materiale costituente il fondo alveo. Esistono numerose ricerche in merito (SHEWBRIDGE e SITAR [1989], GRAY e OHASHI [1983], POLLEN e SIMON [2004], SCHWARZ et al. [2010], United States Department of Agriculture, National Engineering Handbook [2007]) e tutte confermano che l'apparato radicale nel suolo modifica notevolmente le caratteristiche strutturali e di resistenza a taglio: in sintesi, nel momento in cui nel terreno crescono delle radici, la situazione può essere assimilata a quella di una matrice in cui siano immerse delle fibre sulle quali vengono distribuiti gli sforzi. Gli stessi dati sperimentali definiscono nello strato apicale di terreni sabbiosi grossolani un incremento, in caso di apparato radicale consolidato, di almeno 15-20 kN/m^2

la tensione a taglio, indifferentemente dalla azione di carico di consolidazione. Tale condizione è a tempo variante, decrescendo la resistenza al perdurare dell'azione di piena idraulica, ma è sicuramente massima nelle prime decine di minuti, e soprattutto in una condizione idrodinamica come quella in esame con tiranti e velocità estremamente modeste.
Per quanto detto, nel caso in esame la tensione tangenziale critica del fondo alveo inerbito viene assunta pari a 40-50 kN/m^2 (confrontabile con velocità critiche di 1.5-2.0 m/s).

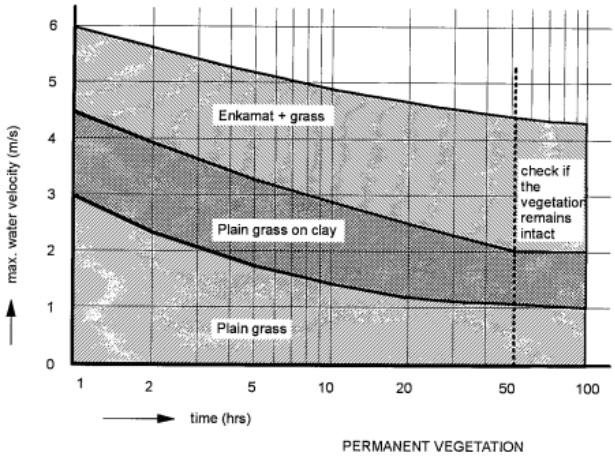


Figura 26 Tabella delle velocità critiche sperimentali

Table 8–6 Allowable velocities for channels lined with grass

Cover	Slope range percent	Allowable velocity (ft/s)	
		Erosion-resistant soils	Easily eroded soils
Bermudagrass	0–5	8	6
	5–10	7	5
	>10	6	4
Buffalograss, Kentucky bluegrass, smooth brome, blue grama	0–5	7	5
	5–10	6	4
	>10	5	3
Grass mixture	0–5	5	4
	5–10	4	3
	Not recommended on slopes greater than 10%		
Lespedeza sericea, weeping lovegrass, ischaemum (yellow bluestem), kudzu, alfalfa, crabgrass	0–5	3.5	2.5
	Not recommended on slopes greater than 5%, except for side slopes in a compound channel		
Annuals—used on mild slopes or as temporary protection until permanent covers are established, common lespedeza, Sudangrass	0–5	3.5	2.5
	Not recommended for slopes greater than 5%		

(210–VI–NEH, August 2007) 8–27

Figura 27 Tabella velocità critiche sperimentali (1ft/s = 0.305m/s)

Per la realizzazione delle fondazioni delle pile il contesto sopra descritto verrà alterato, ed il ripristino della coltre erbosa su materiale coeso necessiterà di alcune stagioni prima di raggiungere i valori di resistenza descritti, inoltre è plausibile tener conto delle difficoltà all'attecchimento della coltre vegetata nelle zone

d'ombra sotto all'impalcato. Per tale motivo, oltre all'analisi dello scalzamento massimo teorico che si avrebbe in corrispondenza delle pile con la presenza di un substrato di terreno non coeso, è stata studiata una soluzione di protezione anti - erosiva compatibile con le condizioni idrodinamiche della corrente, in modo da compensare il mancato attecchimento di un substrato radicale sufficientemente resistente perché in ombra a causa dell'impalcato

Per il calcolo dello scalzamento massimo teorico si considera la configurazione in cui gli scavi delle fondazioni vengono ricolmati con materiale di riporto incoerente e di pezzatura fine (sabbia/terra), inoltre, cautelativamente si esamina la geometria della pila a maggior impatto con la corrente, quindi quella con le dimensioni 1,5 x 2,7 m.

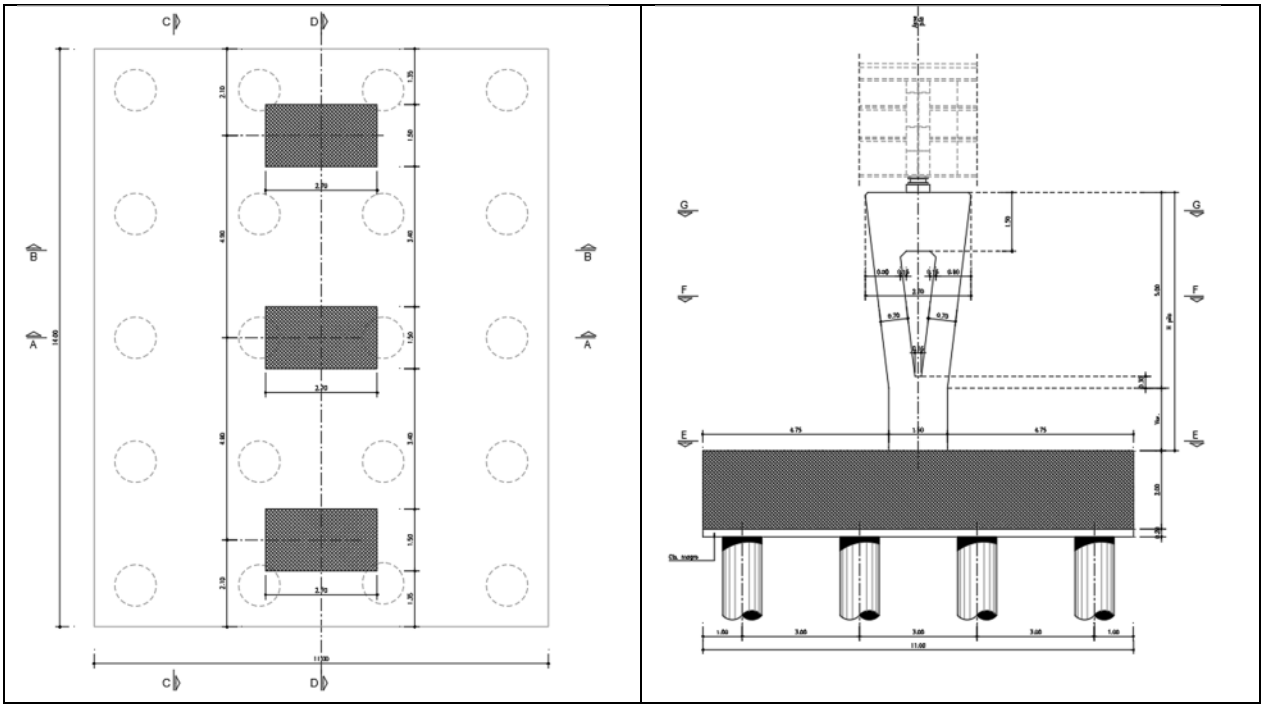


Figura 28 Geometria delle pile in progetto

Lo scalzamento locale per effetto della pila in alveo è funzione delle caratteristiche del materiale d'alveo, della configurazione della sezione, delle caratteristiche di deflusso (velocità, profondità della corrente, angolo di incidenza sulla pila) e della geometria della pila e delle fondazioni.

L'effetto tipico di una pila sulla corrente è la formazione di vortici sia verticali che orizzontali (vortici a ferro di cavallo) che creano una buca sul lato di monte della stessa, depositando il materiale di fondo eroso sul lato di valle.

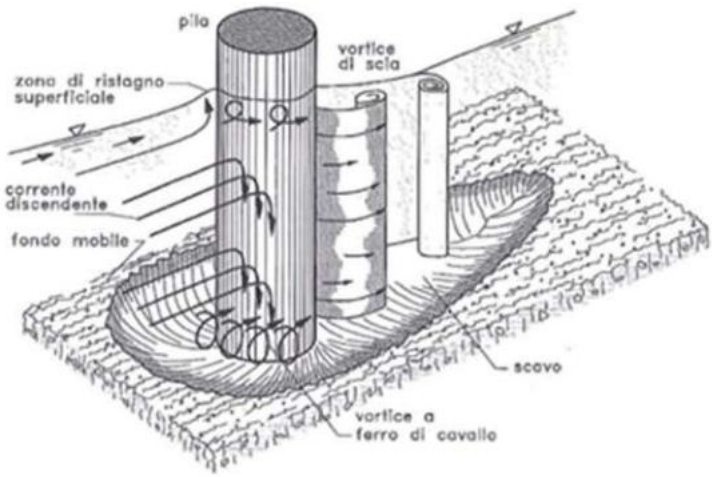


Figura 29 Schema idrodinamico del fenomeno di erosione provocata da una pila di un ponte (Sistemazione dei corsi d'acqua – L. Da Deppo, 2005)

Utilizzando l'espressione di calcolo di Breusers riportata di seguito, **si stima una profondità massima di scalzamento di circa 3,2 m a partire dalla quota del piano golenale (pari circa alla quota di imposta dei plinti di fondazione, a sua volta posta su pali profondi)**; considerando un angolo di incidenza della corrente con la pila pari a zero ed un diametro caratteristico del terreno pari a 0,01 m (D50).

$$\frac{d_s}{s} = f_1\left(\frac{v_0}{v_{cr}}\right)\left[2tanh\left(\frac{y_0}{s}\right)\right] f_2(forma)\, f_3\left(\alpha, \frac{l}{s}\right)$$

dove:

$f_1\left(\frac{v_0}{v_{cr}}\right) = 0$ per $\frac{v_0}{v_{cr}} \leq 0.5$;

$f_1\left(\frac{v_0}{v_{cr}}\right) = 2\frac{v_0}{v_{cr}} - 1$ per $0.5 < \frac{v_0}{v_{cr}} \leq 1.0$;

$f_1\left(\frac{v_0}{v_{cr}}\right) = 1$ per $\frac{v_0}{v_{cr}} > 1.0$;

$f_2(forma) = 1.00$ per pile circolari o con fronti arrotondate;

$f_2(forma) = 0.75$ per pile sagomate in modo da accompagnare la corrente;

$f_2(forma) = 1.30$ per pile rettangolari;

$f_3\left(\alpha, \frac{l}{s}\right) = 1.00$ il valore è ricavabile dal grafico sottostante

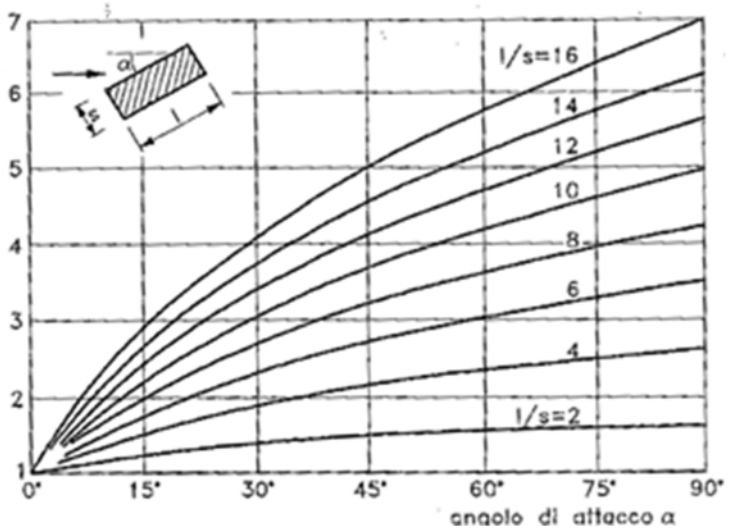


Figura 30: Funzione F3 al variare di α e di l/s

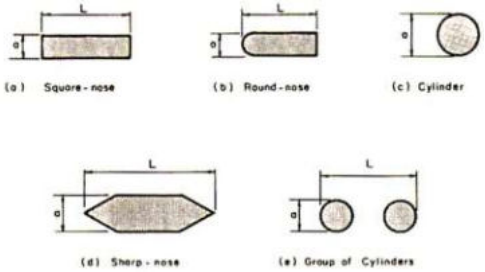
Applicando le formulazioni di Breusers, si evince come la velocità critica per un materiale di diametro medio 0,01 m è di 0,5 m/s, e quindi il rapporto tra la velocità media della corrente in impatto con la pila e la velocità critica risulta essere pari a 2,4. Pertanto, il coefficiente moltiplicativo f_1 risulta essere pari a 1.
Viceversa, predisponendo un corazzamento in superficie a protezione delle pile con massi di diametro medio di 25 cm, si ottiene un valore della velocità critica pari a 2,5 m/s, di conseguenza il rapporto v_0/v_{cr} risulta essere 0,48 e quindi il coefficiente f_1 risulta essere pari a 0 determinando pertanto uno scalzamento nullo.

La stessa verifica è stata effettuata applicando la formulazione della Colorado State University (Richardson et al 1975) detta equazione della CSU. Tale formulazione non consente di valutare gli effetti di resistenza del materiale d'alveo in contrapposizione alle azioni della corrente, ponendosi in una condizione standard di materiale d'alveo medio fine erodibile dalla corrente.

$$\frac{y_s}{y_1} = 2.0\, K_1 K_2 \left(\frac{a}{y_1}\right)^{0.65} Fr^{0.43}$$

Dove:
K_1 è funzione della geometria delle pile:

Square nose	1.10
Round nose	1.00
Circular cylinder	1.00
Sharp nose	0.90
Group of cylinders	1.00



K_2 è funzione dell'angolo di incidenza della corrente con pile e la geometria delle stesse:

Angle	L/a=4	L/a=8	L/a=12
0	1.0	1.0	1.0
15	1.5	2.0	2.5
30	2.0	2.75	3.5
45	2.3	3.3	4.3
90	2.5	3.9	5.0

Considerando le condizioni idrodinamiche precedente esposte, applicando la formula di Richardson si ottiene uno scalzamento massimo teorico pari a 3,3 m, in cui il coefficiente K_1 è stato considerato pari a 1,1, un coefficiente K_2 pari a 1, ed il numero di Froude massimo è desunto dai risultati modellistici pari a 0,3.

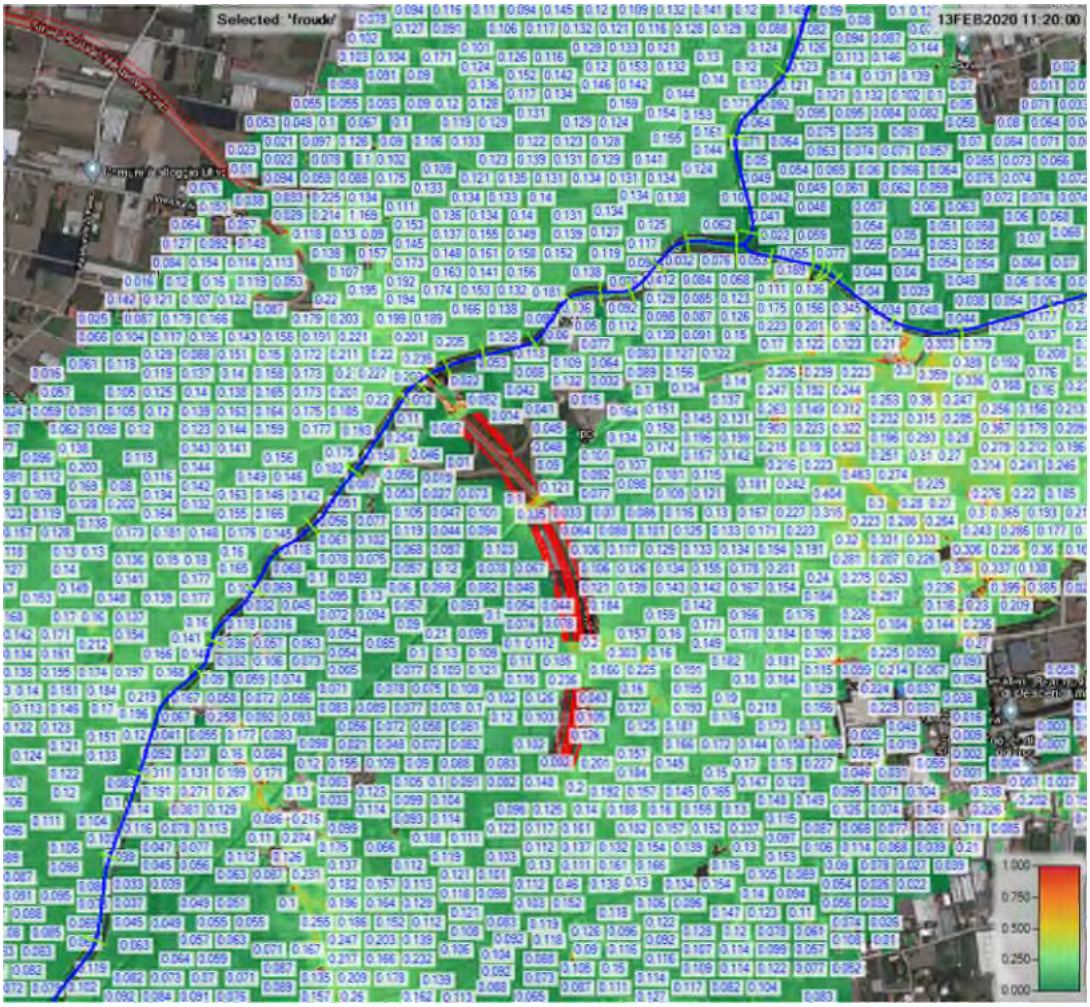


Figura 31 Numeri di Froude massimi in prossimità della viabilità in progetto.

Per le verifiche di stabilità dei massi sciolti costituenti le opere di difesa in progetto anti - erosive a protezione delle fondazioni delle pile, verrà fatto riferimento, nel caso specifico, all'espressione di Shields nella formulazione di Kalinske, esprimibile in termini generali con la seguente relazione che esprime una condizione di equilibrio:

$$\frac{\tau_{cr}}{(\gamma_s - \gamma)d} = \emptyset(Re*)$$

con:

τ_{cr} = tensione tangenziale critica (kg/m^2);

γ_s = peso specifico materiale d'alveo (kg/m^3);

γ = peso specifico dell'acqua (kg/m^3);

d = diametro del granulo (m);

Ø = parametro adimensionale, dipendente dalle caratteristiche dei granuli e del letto fluviale e dal numero di Reynolds (Re*) relativo alla velocità di attrito ($u^*=\tau_{cr}/\rho$).

Per la traduzione della condizione di equilibrio suddetta in termini applicativi sono state proposte varie formulazioni, derivanti da osservazioni sperimentali, ciascuna caratterizzata da limiti e campi di applicabilità specifici che ne condizionano l'utilizzo alla preventiva definizione della tipologia dei substrati naturali o artificiali e del comportamento idraulico dell'alveo.

In particolare, alcuni autori hanno individuato valori empirici specifici del parametro di Shields:

- Ø = 0,047 nella espressione di Meyer-Peter, che considera nullo il termine relativo al trasporto solido;
- Ø = 0,058 - 0,060 nella espressione originale di Shields per Re* > 400;
- Ø = 0,116 nella espressione di Kalinske, che considera un fattore di compattezza del materiale rappresentante l'effetto di mutuo incastro delle particelle.

Dal confronto fra le tensioni tangenziali esercitate dalla corrente sul fondo (valore massimo pari a circa 30 N/m^2) (**Figura 32**) e la corrispondente tensione tangenziale critica legata alla pezzatura del materiale utilizzato per il rivestimento, è possibile verificarne la stabilità in alveo identificando le dimensioni dei massi impiegati attraverso il diametro medio di calcolo D_{50} assunto pari a 0,25 m circa.

Volendo esprimere l'ordine di grandezza dei massi tramite il loro peso, si consideri che, in generale, il volume di elementi di forma abbastanza regolare è compreso tra quello di un cubo di lato pari alla dimensione caratteristica calcolata D_{50} e quello di una sfera di tale diametro.

Il rapporto tra questi due volumi è 0,52, mentre il volume del masso caratteristico sarà circa pari a 0,8 volte il volume del cubo.

Quindi, per calcolare il volume del masso caratteristico si può utilizzare la seguente semplice formula:

$$V = 0{,}80\ (D_{50})^3$$

Il volume per il peso specifico del materiale utilizzato (che nel caso in esame è stato assunto pari a 2600 kg/m^3) fornisce il peso corrispondente del materiale impiegato.

Tabella 15 Valori di tensione critica di trascinamento per massi sciolti

Formula	Caratteristiche minime del masso			Tensione critica di trascinamento al fondo
	D50 [m]	Volume [m^3]	Peso [kg]	[N/m^2]
Shields-Kalinske	0.25	0.01	33	455

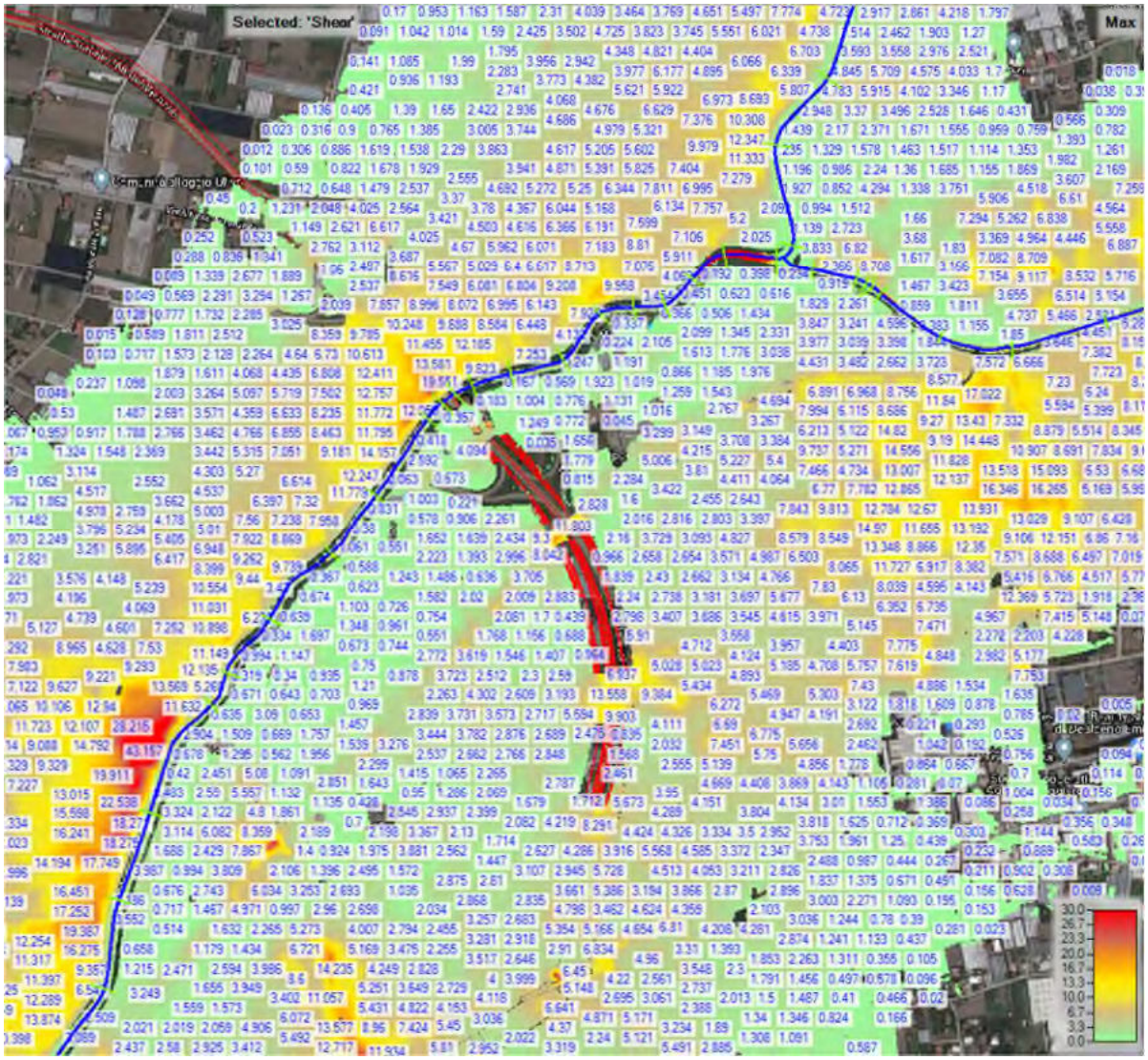
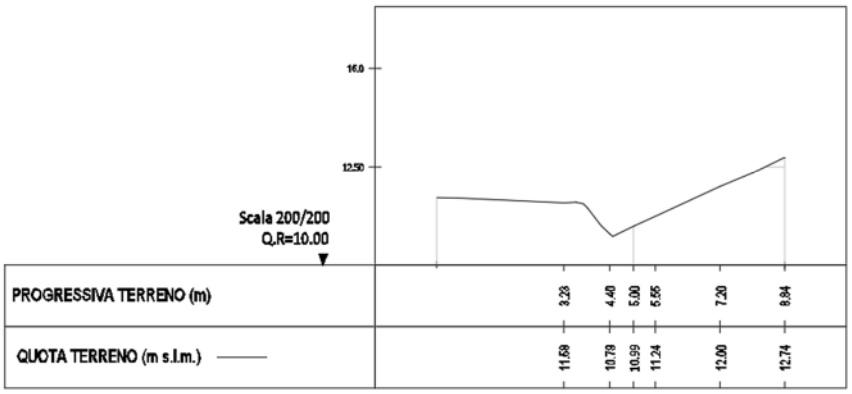


Figura 32 Valori di Share massimi in prossimità della viabilità in progetto.

4.2 Deviazione Controfosso Sinistro del fiume Sarno – Interferenza B.08

Il Controfosso Sinistro del fiume Sarno risulta interferente con la viabilità in corrispondenza del Viadotto V02 di lunghezza pari a 2489 m. A causa del posizionamento delle pile di progetto n.90 in carreggiata Sud e n.83 in carreggiata Nord, è necessario prevedere una deviazione del Controfosso realizzando una sezione scatolare tombata.

Non potendo realizzare un dimensionamento idrologico per il Controfosso, si è proceduto al dimensionamento della sezione di progetto sulla base della geometria di monte e di valle del canale nella zona d'interesse, desunta dai rilievi. Di seguito si riporta una sezione rappresentativa del canale riscontrato dal rilievo e la relativa scala di deflusso per valutare la massima capacità di deflusso a sponde piene.



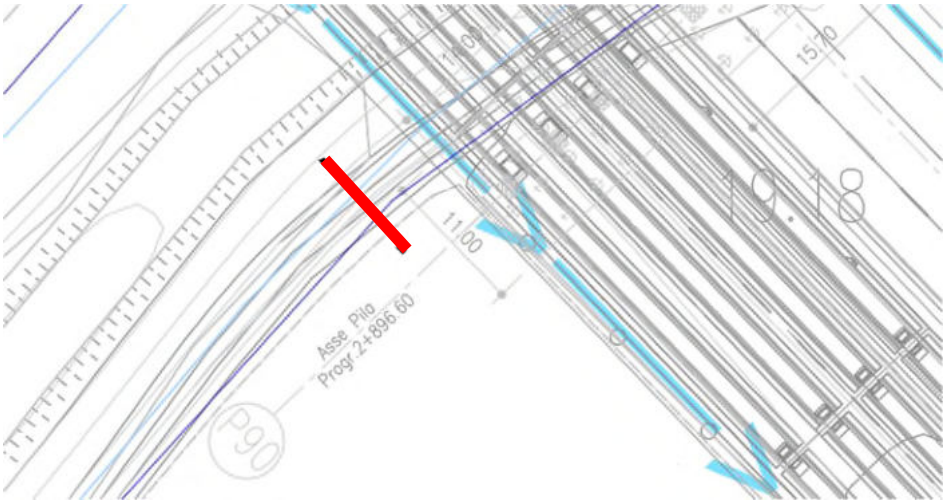
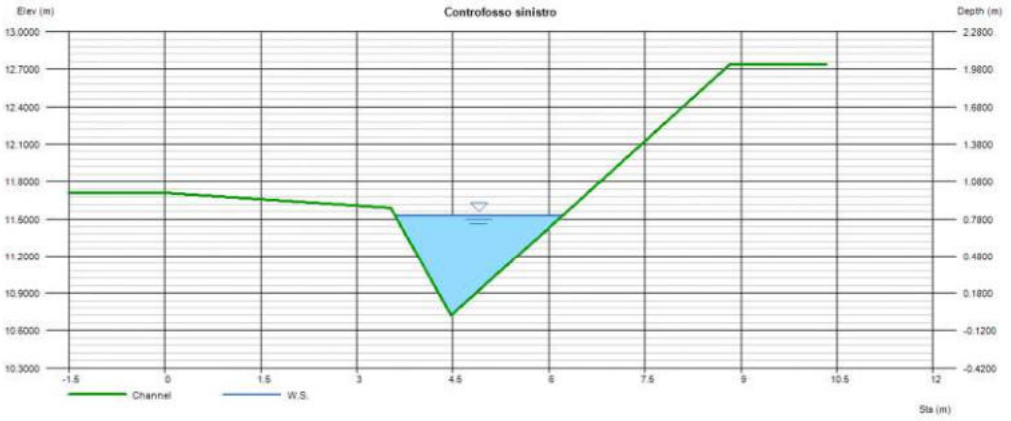


Figura 33 Sezione idraulica del controfosso sinistro in prossimità della deviazione di progetto e successivo tombamento

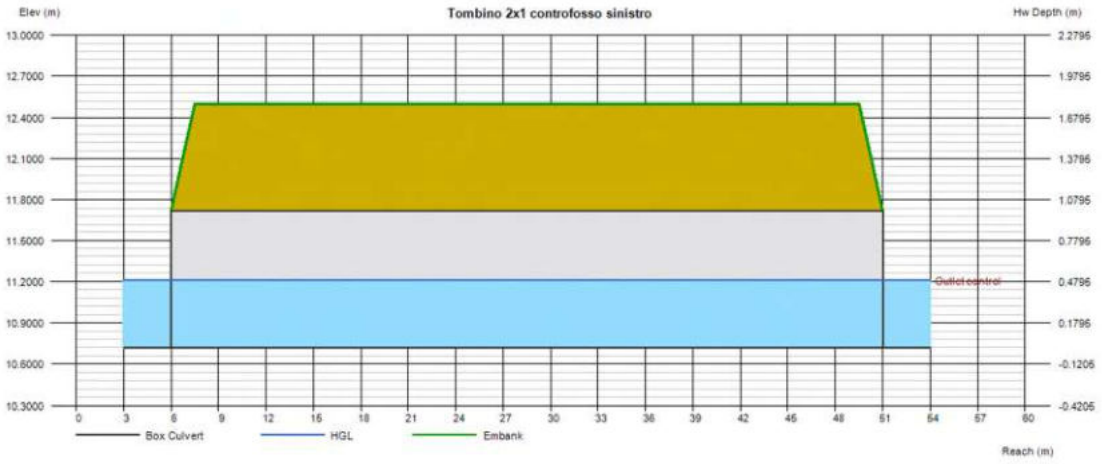


Depth (m)	Q (cms)	Area (sqm)	Veloc (m/s)	Wp (m)	Yc (m)	TopWidth (m)	Energy (m)
0.5050	0.017	0.413	0.0403	1.9448	0.1189	1.8356	0.5051
0.6060	0.027	0.595	0.0455	2.3337	0.1433	1.9628	0.6061
0.7070	0.041	0.809	0.0504	2.7227	0.1676	2.2899	0.7071
0.8080	0.058	1.057	0.0551	3.1116	0.1951	2.6170	0.8082
0.9090	0.068	1.360	0.0503	4.5911	0.2073	4.0492	0.9091



Figura 34 Scala di deflusso del controfosso sinistro nella condizione di stato di fatto

Come si evince dalla scala di deflusso sopra riportata la sezione del canale è in grado di far defluire a sponde piene una portata di circa 0.06 m^3/s.
Rispetto alla capacità di deflusso della sezione del canale, è stata prevista come geometria del tombino di deviazione, una sezione rettangolare di larghezza pari a 2 m e altezza 1 m, con una capacità di deflusso comparabile a quella della sezione del canale di origine.
Di seguito si riporta la scala di deflusso del tombino in progetto in cui si evince come il manufatto sia in grado di smaltire la portata di 0.06 m3/s con un grado di riempimento di circa il 50%.



Q			Veloc		Depth		HGL			
Total	Pipe	Over	Dn	Up	Dn	Up	Dn	Up	Hw	Hw/D
(cms)	(cms)	(cms)	(m/s)	(m/s)	(mm)	(mm)	(m)	(m)	(m)	
0.0410	0.0410	0.0000	0.0551	0.0552	371.8564	371.6610	11.0919	11.0922	11.0924	0.3718
0.0510	0.0510	0.0000	0.0589	0.0589	432.8154	432.6201	11.1528	11.1531	11.1533	0.4328
0.0610	0.0610	0.0000	0.0625	0.0626	487.6795	487.4842	11.2077	11.2080	11.2082	0.4877
0.0710	0.0710	0.0000	0.0654	0.0655	542.5436	542.3483	11.2625	11.2629	11.2631	0.5426
0.0810	0.0810	0.0000	0.0685	0.0685	591.3116	591.1162	11.3113	11.3116	11.3119	0.5914

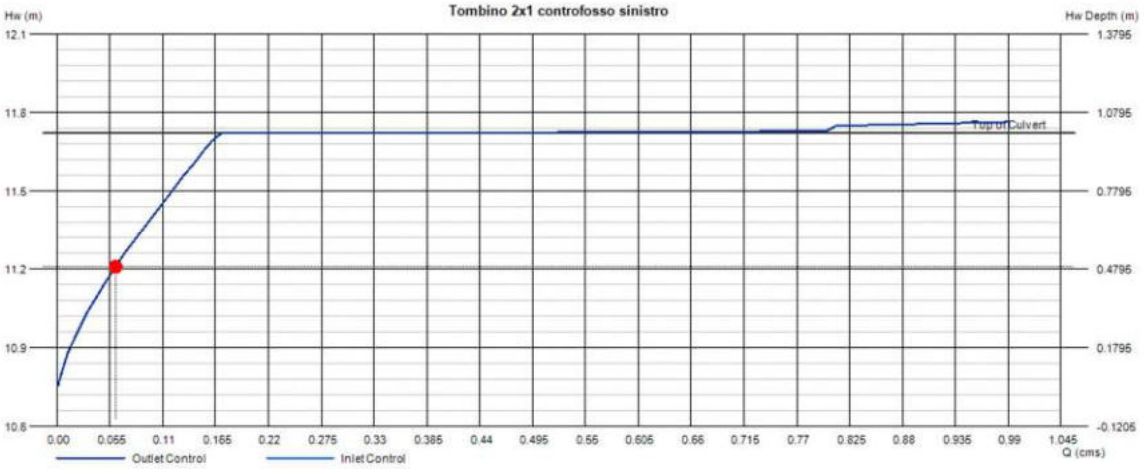


Figura 35 Scala di deflusso del tombino di progetto in corrispondenza della deviazione del controfosso sinistro in corrispondenza dell'interferenza della pila 90 del viadotto in progetto

5 ANALISI IDRAULICHE ASTE SECONDARIE

Anche per la verifica delle aste dei corsi d'acqua secondari è stato utilizzato il codice di calcolo HEC-RAS ver. 5.0.7. Le analisi idrauliche effettuate, sono volte a verificare il funzionamento idraulico delle aste oggetto di studio nella configurazione attuale e nella soluzione in progetto.
Per mantenere una rigorosa corrispondenza tra le aste ed i bacini afferenti si è scelto di nominare ciascun corso d'acqua con la medesima nomenclatura del bacino pertinente.

5.1 Allestimento e calibrazione dei modelli idraulici

La schematizzazione geometrica delle varie aste studiate è stata effettuata in modo da ottenere una buona e realistica rappresentazione del deflusso di piena basandosi sul DTM passo 1 m fornito dal Ministero dell'Ambiente e della Tutela del Territorio e del Mare dove disponibile.
La schematizzazione dei tombini idraulici in ciascun modello di calcolo numerico è stata effettuata mediante la funzione "Bridge and culverts" del codice di calcolo in questione.

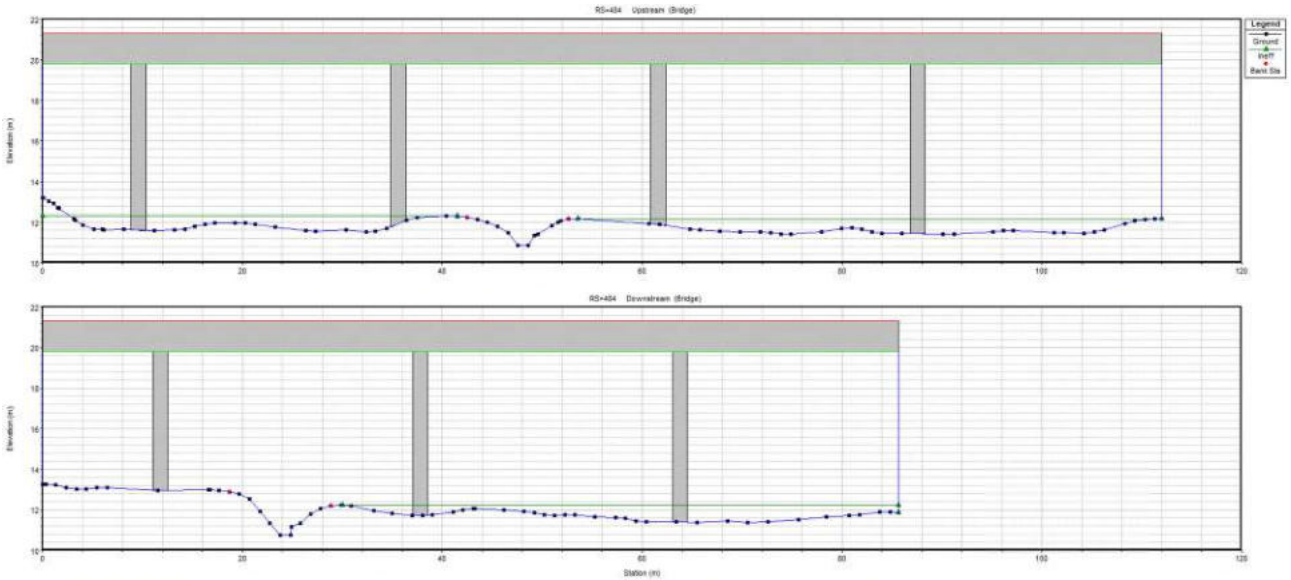


Figura 36 Ricostruzione nel modello idraulico di un tratto in viadotto della SS268.

Per il calcolo del profilo di corrente in corrispondenza delle strutture, tra le diverse opzioni offerte dal codice di calcolo, sono state selezionate le equazioni di bilancio dell'energia ed il metodo dei momenti, tra le quali il software seleziona in automatico la formulazione caratterizzata dalla maggiore dissipazione energetica. Finché il livello idrico rimane al di sotto dell'impalcato (low flow), viene assunta la schematizzazione di deflusso non in pressione ovvero a superficie libera; viene invece assunta la schematizzazione con deflusso in pressione e stramazzo al di sopra dell'impalcato (pressure and weir), per le situazioni con livello della corrente tale da interessare l'intradosso del ponte (high flow). Le condizioni limite per il deflusso in pressione sono definite dal programma in base al livello di corrente registrato a monte.

5.2 Condizioni al contorno e definizione della scabrezza

Le simulazioni idrodinamiche sono state effettuate in moto permanente. Nello specifico per ciascun modello numerico è stata stabilita una condizione al contorno di monte imponendo la portata di progetto relativa in ingresso, mentre come condizione al contorno di valle è stato imposto normalmente il deflusso in moto uniforme "Normal Depth", fatto salvo specifici casi di passaggio in corrente critica o di livello imposto (a mare o presso confluenze).
Per quanto concerne la scabrezza, la valutazione dei coefficienti da inserire in ciascun modello è stata basata su dati di letteratura, sull'esperienza acquisita nel campo della modellistica idraulica, sulle indicazioni rilevate dalle carte del CN regionale e sulle foto a disposizione.
Le aste analizzate presentano connotati di scabrezza mediamente eterogenei per i tratti in alveo, con sezioni talvolta rivestite, mentre risultano pressoché omogenei per la parte golenale. Sulla scorta di tale analisi si è assunto un valore del coefficiente di Strickler (k) pari a 30 $m^{1/3}/s$ (n= 0.033) per gli alvei dei corsi d'acqua a sezione naturale, di 50 $m^{1/3}/s$ (n= 0.02) per alvei rivestiti, mentre per le aree golenali allagabili è stato considerato un valore medio di 25 $m^{1/3}/s$ (n= 0.04).

Tabella 16: Valori di Manning utilizzati per le varie soluzioni ed alternative di tracciato

Bacino ID	SDF			PROGETTO		
	LOB	CHN	ROB	LOB	CHN	ROB
B.09	0.04	0.02	0.04	0.04	0.02	0.04
B.10	0.04	0.033	0.04	0.04	0.033	0.04
B.11	0.04	0.033	0.04	0.04	0.033	0.04

5.3 Simulazioni idrauliche in moto permanente

Lo studio del funzionamento idraulico di ciascuna opera in progetto verte sulla verifica del franco idraulico e ubicazione spalle e pile secondo le modalità indicate dalle recenti NTC2018 nel capitolo dedicato alla compatibilità idraulica.
Secondo tale norma valgono i seguenti principali vincoli:

- la portata di verifica di progetto è quella caratterizzata da tempo di ritorno duecentennale;
- il franco calcolato sul livello della portata di progetto deve essere di 1.5 m per i viadotti e comunque per tutte le opere dimensionate per portata di progetto superiore a 50 m^3/s;
- il manufatto non deve interessare con rilevati, spalle e pile la sezione del corso d'acqua;
- qualora fosse necessario realizzare pile in alveo, la luce netta minima tra pile contigue, o fra pila e spalla del ponte, non deve essere inferiore a 40 m misurati ortogonalmente al filone principale della corrente;
- il franco idraulico per tombini dimensionati per portate inferiori a 50 m^3/s deve essere il massimo tra 0,5 m e 1/3 dell'altezza della sezione.

Nella seguente **Tabella 17** si riportano i risultati delle simulazioni idrauliche effettuate per la verifica della compatibilità idraulica di ciascun'opera in progetto. Si evidenzia quindi il valore del franco idraulico calcolato come confronto tra l'altezza utile dell'opera e il tirante idrico registrato nella sezione idraulica immediatamente a monte del manufatto indagato.

I calcoli numerici, sotto forma di profili, tabelle e sezioni trasversali, sono posti in Allegato III, mentre nella documentazione grafica del progetto vengono riportate le planimetrie di allagamento delle varie aste per ciascuna configurazione modellata.
Si evidenzia, inoltre, che le interferenze progettuali B.09 e B.10 ricadono all'interno dell'area potenzialmente oggetto di esondazione del fiume Sarno e dell'Alveo Comune Nocerino. Di questa sovrapposizione si è tenuto conto in fase di perimetrazione delle aree allagabili.

Tabella 17: Risultati delle simulazioni idrauliche con modello monodimensionale (evento TR 200 anni).

Configurazione	ID Interf idraulica	Progr. Asse stradale	Quota estradosso minima impalcato	Quota intradosso minima impalcato		Portata Q	Tirante h media	Tirante h max	Velocità V	Livello idrico	Fr (Normativa)	Fr (calcolato)
			(m s.l.m.)	(m s.l.m.)		(m^3/s)	(m)	(m)	(m/s)	(m s.l.m.)	(m)	(m)
SDF - Lamin.	B.09	3+220	18.7	16.7		91	2.1	2.8	1.01	13.22	1.5	3.48
SDF	B.09	3+220	18.7	16.7		93	2.13	2.83	1.01	13.25	1.5	3.45
SDF - Lamin.	B.10	4+120	19.3	17.3		61	2.36	3.78	0.75	13.43	1.5	3.87
SDF	B.10	4+120	19.3	17.3		69	2.6	4.05	0.76	13.7	1.5	3.6
SDF - Lamin.	B.11	5+780	21.8	19.8		35	1.12	1.98	0.34	12.83	1.5	6.97
SDF	B.11	5+780	21.8	19.8		42	1.23	2.1	0.37	12.95	1.5	6.85
PROG - Lamin.	B.09	3+220	17.8	15.8		91	1.59	2.24	1.39	12.66	1.5	3.14
PROG	B.09	3+220	17.8	15.8		93	1.61	2.26	1.4	12.68	1.5	3.12
PROG - Lamin.	B.10	4+460	19.5	17.5		61	0.56	1.96	1.2	11.31	1.5	6.16
PROG	B.10	4+460	19.5	17.5		69	0.61	2	1.24	11.35	1.5	6.12
PROG - Lamin.	B.11	5+780	21.8	19.8		35	1.11	1.98	0.34	12.83	1.5	6.97
PROG	B.11	5+780	21.8	19.8		42	1.23	2.1	0.37	12.95	1.5	6.85

6 CONCLUSIONI: VERIFICA DI COMPATIBILITA' IDRAULICA

Il 2° Lotto della strada statale SS268 percorre la Piana del fiume Sarno interessando diversi chilometri di aree territoriali soggette ad allagamenti, così come individuato dal PAI e confermato dagli approfondimenti modellistici.

Rispetto ai corsi d'acqua e alle conseguenti aree di allagamento, in sintesi il progetto prevede la realizzazione dei seguenti nuovi viadotti:

- Fiume Sarno e controfossi – Viadotto V02, L=2489m - Viadotto V03, L=55m - Viadotto V04, L=99m – Viadotto V05, L=2369m;
- rio Sguazzatorio – Viadotto V03, L=55m;
- Fosso dei Bagni - Viadotto V05, L=2369m;
- rio S. Tommaso Angri - Viadotto V05, L=2369m.

Tutti i viadotti garantiscono il rispetto della normativa vigente:

- per franco: >2.0 m per tutti i viadotti;
- per posizione delle spalle: solo le esistenti del viadotto VI02 rimangono in area allagabile ma fuori arginatura;
- per ampiezza delle campate: minima 40 m, fatte salve singolarità dovute alla presenza di ostacoli civili e viabilità secondarie.

Rispetto allo scenario attuale, il progetto minimizza l'interferenza della strada eliminando quasi tutti i rilevati stradali oggi esistenti, lasciandone alcuni tratti solo in corrispondenza degli svincoli e zone di transizione.

Con particolare riferimento al fiume Sarno, il progetto prevede l'attraversamento sull'alveo inciso mediante realizzazione di pile fuori alveo di magra, in sostituzione delle esistenti poste in alveo e potenzialmente esposte a maggiori azioni di scalzamento.

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1 ALLEGATO I - DESCRIZIONE DEL CODICE DI CALCOLO HEC-RAS

1. DESCRIZIONE DEL CODICE DI CALCOLO

Il modello di simulazione implementato da HEC-RAS (River Analysis System) presso l'Hydrologic Engineering Center dell'United States Army Corps of Engineers, consente il calcolo dei profili idraulici di moto permanente gradualmente vario in reti di canali naturali o artificiali.

Con tale modello possono essere simulate condizioni di moto subcritico, supercritico e misto e possono essere valutati gli effetti di immissioni o emissioni laterali di portata, opere in alveo, ostacoli al flusso e costruzioni presenti lungo le sponde.

Come noto, le equazioni utilizzate per valutare le perdite di carico e quindi il profilo di rigurgito di una corrente variano a seconda del tipo di corrente. Per correnti che si mantengono o sempre lente o sempre veloci in un determinato tratto, si è utilizzata l'equazione della conservazione dell'energia totale.

1.1 CONSERVAZIONE DELL'ENERGIA TOTALE

Isolando un tratto di corrente e indicando con 1 e 2 le sezioni a monte e a valle del tratto, si è definita l'equazione dell'energia, in riferimento alla Figura 1, nel modo seguente:

$$Y_2 + Z_2 + \frac{\alpha_2 V_2^2}{2g} = Y_1 + Z_1 + \frac{\alpha_1 V_1^2}{2g} + h_e \qquad (1)$$

dove

h_e, perdite di energia;

V_i , velocità media nella sezione, pari al rapporto tra portata totale ed area totale;

a_i , coefficienti legati alla distribuzione della velocità nella sezione

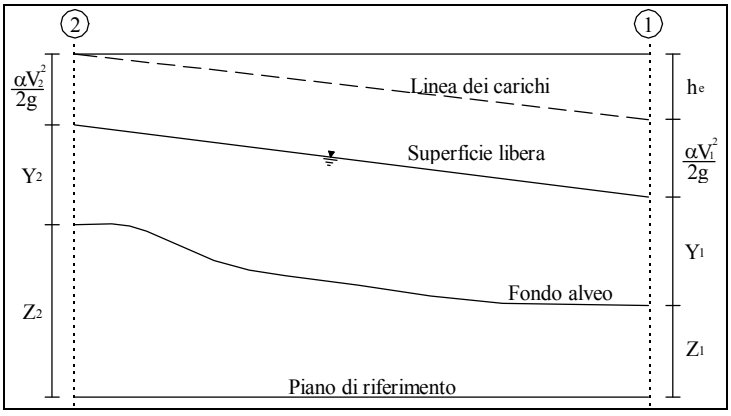


Figura 1 Schema di calcolo

La perdita di carico h_e presente tra due sezioni è causata prevalentemente dalla perdita per attrito o per le variazioni di velocità intrinseche nelle zone di espansione o contrazione della corrente. Indicando con J la cadente piezometrica e con C un coefficiente che tiene conto del fenomeno dell'espansione o contrazione, le perdite di pressione sono state pertanto calcolate nel modo seguente:

$$h_e = LJ + C\left|\frac{\alpha_2 V_2^2}{2g} - \frac{\alpha_1 V_1^2}{2g}\right| \qquad (2)$$

Il coefficiente C di espansione o contrazione è stato valutato, in funzione del tipo di transizione che si determina, in accordo alla seguente tabella.

Tabella 1 - Coefficiente di contrazione o espansione

C	Contrazione	Espansione
Nessuna transizione	0,0	0,0
Transizione graduale	0,1	0,3
Sezione tipica di un ponte	0,3	0,5
Rapida transizione	0,6	0,8

La presenza di una espansione o di una contrazione è valutata confrontando la velocità a monte e a valle della sezione considerata. In particolare, se la velocità a monte risulta maggiore della velocità a valle, nella sezione si attesta un'espansione del canale; viceversa una contrazione.

La cadente piezometrica J e il coefficiente di ragguaglio dell'energia cinetica adimensionale α_i, che compaiono nelle equazioni (1) e (2), vengono espresse in funzione delle caratteristiche idrodinamiche della corrente nel seguente modo.

La pendenza d'attrito J viene calcolata come rapporto tra la portata media Q ed il coefficiente medio di resistenza K.

$$J = \left(\frac{Q}{K}\right)^2 \text{ con } K = \frac{1.486}{n} A R^{2/3} \qquad (3)$$

dove

n, coefficiente di scabrezza di Manning;

A, area della sezione;

R, raggio idraulico.

Per portare adeguatamente in conto la frequente circostanza di sezione caratterizzata da zone a differente scabrezza (tipica in particolare degli alvei a banchina e savanella), i valori della conveyance per ciascuna area golenale sono ottenuti come somma dei rispettivi valori parziali (Figura 2). Il canale principale è invece trattato come un unico elemento dotato di un solo valore

di conveyance. Il valore finale ragguagliato di K per l'intera sezione è ottenuto come somma dei tre contributi parziali (sinistra, canale, destra).

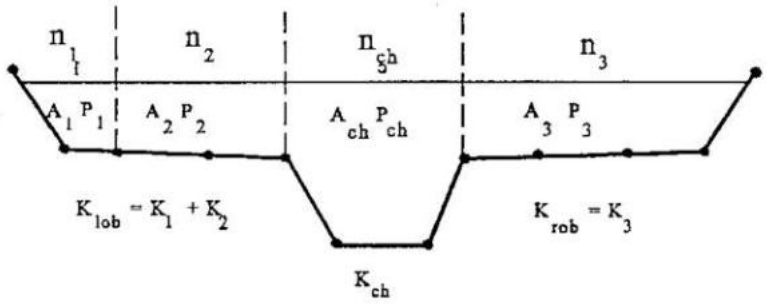


Figura 2 Procedura di calcolo della conveyance

Per ciò che concerne invece il coefficiente di ragguaglio □, poiché coerentemente con la citata ipotesi di corrente monodimensionale, ad ogni sezione resterà associata una sola superficie libera e di conseguenza una sola altezza cinetica. In particolare, per un dato valore del tirante idrico nella sezione, l'altezza cinetica viene calcolata come valor medio pesato alla portata fra quelli associati alle tre sottosezioni: golena sinistra, canale, golena destra. Una semplice schematizzazione del modello, nel caso di assenza di golena sinistra è riportato in Figura 3. In pratica l'altezza cinetica è calcolata mediante la relazione:

$$\alpha \cdot \frac{\overline{V}^2}{2g} = \frac{\sum_{i=1}^{n} Q_i \cdot \left(\frac{V_i^2}{2g} \right)}{Q_{tot}} \qquad (4)$$

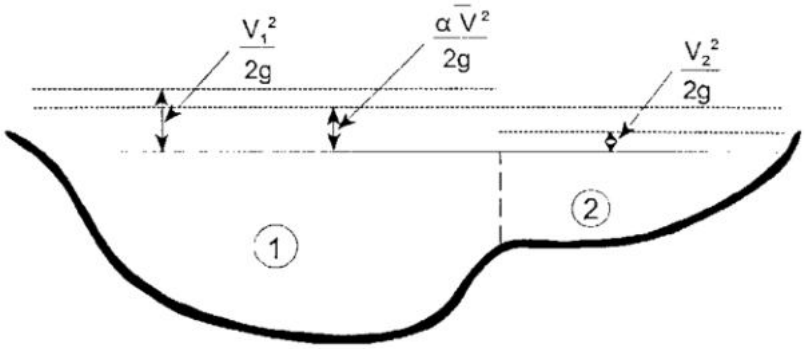


Figura 3 Suddivisione in sottozone con eguale velocità della corrente

Dalla precedente relazione pertanto il coefficiente di ragguaglio risulta quindi:

$$\alpha = \frac{\sum_{i=1}^{n} Q_i \cdot V_i^2}{Q \cdot \overline{V^2}} \tag{5}$$

L'incognita della (1) è la quota idrometrica (Y+Z), che il programma di calcolo determina con il metodo della secante applicato all'equazione del bilancio energetico.

La procedura risulta iterativa e si svolge attraverso i seguenti passi:

- Si assume una quota idrica $(Y+Z)^1_{ass.2}$ di primo tentativo per la sezione incognita, di monte nel caso di moto lento o di valle per corrente rapida;
- Basandosi sull'assunzione della quota idrica si determinano i corrispondenti termini cinetici;
- Valutata la pendenza J, si risolve l'equazione per calcolare le perdite h_e nel tratto;
- Dai valori ottenuti viene effettuato il calcolo della corrispondente quota idrica da confrontare con la quota assunta all'inizio del processo iterativo determinando l'errore commesso.

Il programma ripeterà i passaggi descritti fino al momento in cui l'errore risulterà minore della tolleranza, imposta di default come 0.003 m.

Le equazioni utilizzate per i primi due tentativi sono:

$$(Y+Z)^1_{calc.2} = E_1 + h_e - \left(\alpha \frac{V^2}{2g}\right)_2 \tag{6}$$

Equazione per la determinazione della quota calcolata:

$$err^1 = (Y+Z)^1_{ass.2} - (Y+Z)^1_{calc.2} = E_2 - (E_1 + h_e) \tag{7}$$

Errore della prima iterazione:

$$(Y+Z)^2_{ass.2} = (Y+Z)^1_{ass.2} - 0.70 \cdot err^1 \tag{8}$$

Valore assunto per la seconda iterazione:

$$err^2 = (Y+Z)^2_{ass.2} - (Y+Z)^2_{calc.2} = E_2 - (E_1 - h_e) \tag{9}$$

Errore della seconda iterazione.

Mentre per il calcolo dei tentativi successivi viene applicata la formula del metodo della secante, nella forma:

$$(Y+Z)^{I}_{ass.2} = (Y+Z)^{I-1}_{ass.2} - err^{I-1} \cdot \frac{(Y+Z)^{I-1}_{ass.2} - (Y+Z)^{I-2}_{ass.2}}{err^{I-1} - err^{I-2}} \qquad (10)$$

Nel caso in cui il numero delle iterazioni necessarie raggiunga il valore massimo impostato (20 di default) senza soddisfare la tolleranza, si confronterà con la quota $(Y+Z)_{crit}$, corrispondente alle condizioni critiche della sezione, il valore della quota al quale nelle varie iterazioni compiute corrisponde il valore minimo di errore, $(Y+Z)_{min_err}$.

Se da tale confronto risulta un coretto posizionamento della quota rispetto la quota critica $(Y+Z)_{min_err} > (Y+Z)_{crit}$ per profili in corrente lenta e $(Y+Z)_{min_err} < (Y+Z)$ per profili in corrente veloce) e l'errore associato a $(Y+Z)_{min_err}$ sia inferiore ad una seconda tolleranza impostata maggiore della precedente (0.1 di default), il valore $(Y+Z)_{min_err}$ è assunto come soluzione; nel caso in cui, invece, l'errore corrispondente non soddisfi la seconda tolleranza oppure la posizione risulti non corretta rispetto alla quota critica, la soluzione assunta è l'altezza critica.

Si osserva dunque che indipendentemente dal tipo di condizione imposta per la risoluzione del moto del profilo, moto subcritico o moto supercritco, il profilo può risultare costituito da tratti validi con il pelo libero superiore alla quota critica, intervallati da altri tratti in cui il profilo coincide con quest'ultima.

1.2 EQUAZIONE DELLA CONSERVAZIONE DELLA QUANTITÀ DI MOTO

L'equazione della conservazione dell'energia totale (1) ha validità solo nel caso di correnti gradualmente variate all'interno del ramo in esame. In particolare viene applicata nel caso di corrente ovunque subcritiche o supercritiche. Qualora all'interno di un ramo si verificasse il passaggio da corrente veloce a lenta, con perdita della gradualità del movimento, è necessario impostare una risoluzione del codice di calcolo tramite un regime di corrente mista. Per tale metodo di calcolo è necessario assegnare due condizioni al contorno: una a monte ed una a valle. In tal caso la determinazione del profilo avviene secondo un procedimento nel quale si utilizza il teorema della quantità di moto per la localizzazione dell'eventuale risalto idraulico.

La grandezza che regola il regime di corrente mista è la spinta totale composta dalla spinta idrostatica (*Pi*) e idrodinamica della corrente ($Q\rho\Delta V$). .

$$S_{tot} = \gamma A\overline{Y}\cos\theta + Q\rho V_x \qquad (10)$$

Applicando l'equazione globale dell'equilibrio dinamico al volume di controllo compresso tra le sezioni 1-2, in cui la corrente si suppone gradualmente variata, (Figura 4) e proiettandola lungo l'asse x, si ottiene

$$P_2 - P_1 + W_x - F_f = Q\rho\Delta V_x \qquad (11)$$

dove si è indicato con

Pi , spinta idrostatica sulla sezione i;

Wx , componente della forza peso nella direzione del moto;

Ff , forza d'attrito lungo la superficie di contorno del volume di controllo;

Q , portata complessiva (supposta costante);

ρ , densità del fluido;

ΔVx , variazione della velocità tra le due sezioni.

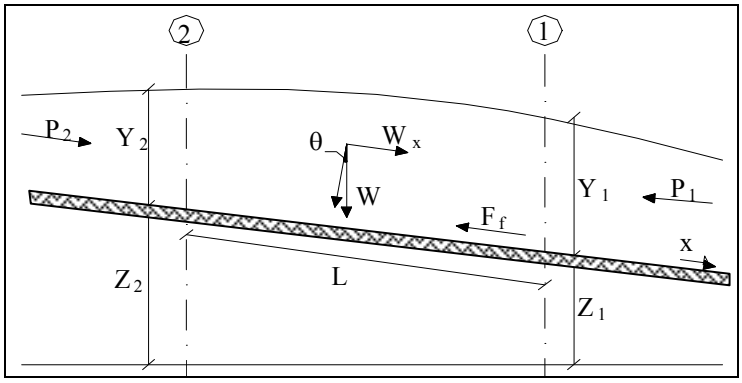


Figura 4 Schema di calcolo

I termini idrostatici per pendenze dell'ordine di 1 a 10 sono valutabili come

$$P = \gamma A\overline{Y}\cos\theta \cong \gamma A\overline{Y} \tag{12}$$

potendo porre, per le pendenze in esame, cosθ = 1.

Nella relazione (12) γ corrisponde al peso specifico del fluido, A l'area della sezione ed $\overline{Y}$ l'altezza del pelo libero nel baricentro della sezione.

La componente della forza peso, noto il peso specifico del fluido, la lunghezza L del tronco e l'area totale di fluido presente, è stata valutata nel modo seguente:

$$W = \gamma\left(\frac{A_1 + A_2}{2}\right)\cdot L \Rightarrow W_x = W\cdot \text{sen}\theta \tag{13}$$

La forza d'attrito F_f è funzione delle caratteristiche del fluido come la densità dell'acqua, l'azione tangenziale che si esplica sul letto del fiume e la cadente piezometrica J.

In particolare:

$$F_f = \tau PL$$
$$\tau = \gamma RJ \Rightarrow F_f = \gamma\frac{A}{P}JPL = \gamma\left(\frac{A_1 + A_2}{2}\right)\cdot JL \tag{14}$$

dove P ed R sono rispettivamente il perimetro bagnato ed il raggio idraulico della sezione.

La soluzione dell'equazione (10) avviene per iterazioni successive. Vengono quindi calcolati tutti i profili sia in regime di corrente subcritica, partendo dalla sezione di valle e procedendo a ritroso fino alla sezione di monte, sia in regime supercritico partendo dalla sezione di monte con la condizione imposta, determinando nel primo caso $S_{tot,sub}$ e nel secondo $S_{tot,super}$. Le sezioni in cui la soluzione è posta uguale alla quota critica $(Y+Z)_{crit}$ vengono salvate in memoria.

Successivamente si controlla che $S_{tot,super}$ sia maggiore della $S_{tot,sub}$. Se risulta $S_{tot,super} > S_{tot,sub}$ allora è valida la condizione supercritica ed inizia il calcolo del profilo di corrente veloce verso valle controllando che in ogni sezione permanga verificata la disuguaglianza.

Se invece nella sezione di monte è $S_{tot,super} < S_{tot,sub}$, è valida la soluzione subcritica, e il programma ricerca la prima sezione verso valle, conservata in memoria, in cui la soluzione in regime subcritico era stata posta uguale alla quota critica. Da qui ha inizio il calcolo di un profilo di corrente rapida verso valle che è valido finché non si arriva ad una sezione con una soluzione subcritica alla quale corrisponde una $S_{tot,super} < S_{tot,sub}$.

Si assume quindi che, fra questa sezione e quella precedente si verifichi un risalto idraulico, con transizione da corrente veloce a corrente lenta e si prosegue con lo stesso criterio fino ad arrivare alla sezione di valle.

Nella Figura 5 è rappresentata una parte del profilo dove si verifica il passaggio dal regime supercritico a quello subcritico, che può verificarsi in regime di corrente mista.

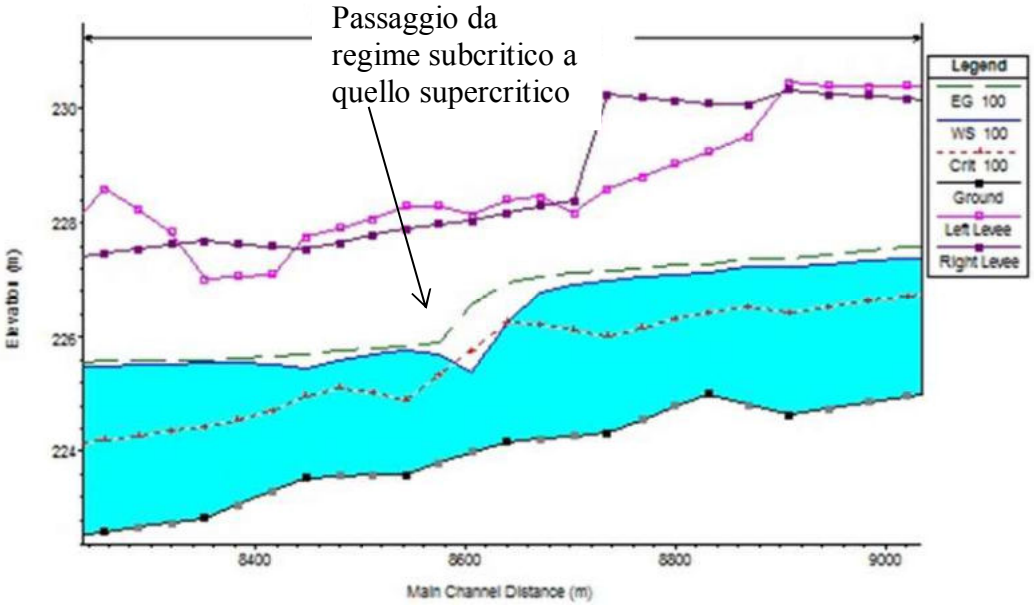


Figura 5 Profilo calcolato in regime di corrente mista

Le equazioni (1) e (11) sono state applicate anche alle sezioni caratterizzate dalla presenza di un ponte. E' stato sufficiente suddividere il tratto interessato in più sezioni e ripetere per la successione di esse l'analisi svolta per il tratto delimitato da sole due sezioni.

Prendendo un tratto caratterizzato dalla presenza di un ponte, Figura 4 e Figura 5, si evidenziano 3 zone:

- una zona di contrazione;
- una zona intermedia interessata dalla presenza del ponte;
- una zona di espansione.

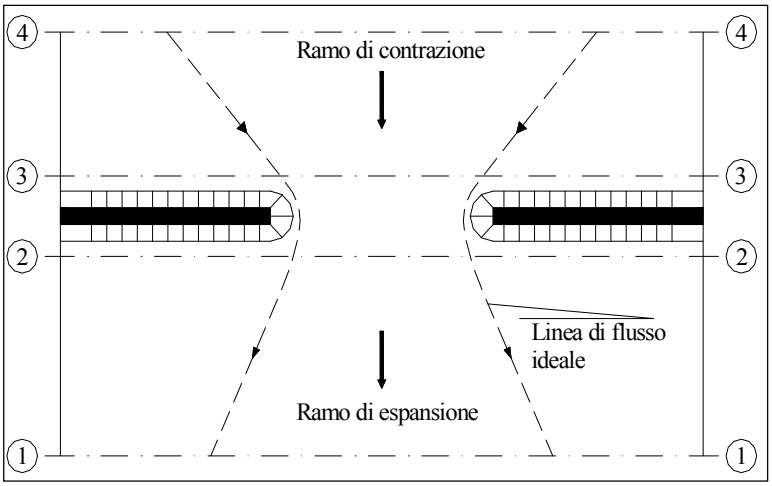


Figura 5 Pianta schematica di un attraversamento fluviale

L'applicazione dell'equazione della conservazione della quantità di moto tra le sezioni 1-2 e 3-4 è del tutto analoga alla situazione vista in precedenza mentre la presenza del ponte comporta termini nuovi nella valutazione dell'equilibrio tra le sezioni 2-BD (Step 1), BD-BU (Step 2) ed BU-3 (Step 3).

Step 1; definendo con Ap_i l'area ostruita ed con Yp_i la distanza verticale che intercorre tra il baricentro delle pile e la superficie libera nella zona di valle, l'espressione del bilancio è la seguente:

$$\frac{Q_{BD}^2 \beta_{BD}}{gA_{BD}} + A_{BD}Y_{BD} = \frac{Q_2^2 \beta_2}{gA_2} + A_2 Y_2 - A_{P_{BD}} Y_{P_{BD}} + F_f - W_x \qquad (15)$$

Step 2 ; equilibrio tra BU e BD:

$$\frac{Q_{BD}^2 \beta_{BD}}{gA_{BD}} + A_{BD}Y_{BD} + F_f - W_x = \frac{Q_{BU}^2 \beta_{BU}}{gA_{BU}} + A_{BU}Y_{BU} \qquad (16)$$

Step 3 ; equilibrio tra BU e 3:

$$\frac{Q_3^2 \beta_3}{gA_3} + A_3 Y_3 = \frac{Q_{BU}^2 \beta_{BU}}{gA_{BU}} + A_{BU}Y_{BU} - A_{P_{BU}} Y_{P_{BU}} + F_f - W_x + \frac{1}{2} C_D \frac{A_{P_{BU}} Q_3^2}{gA_3^2} \qquad (17)$$

con C_D coefficiente di resistenza idrodinamica intorno alla pila ricavabile dalla tab. 2 in funzione del tipo di pila presente.

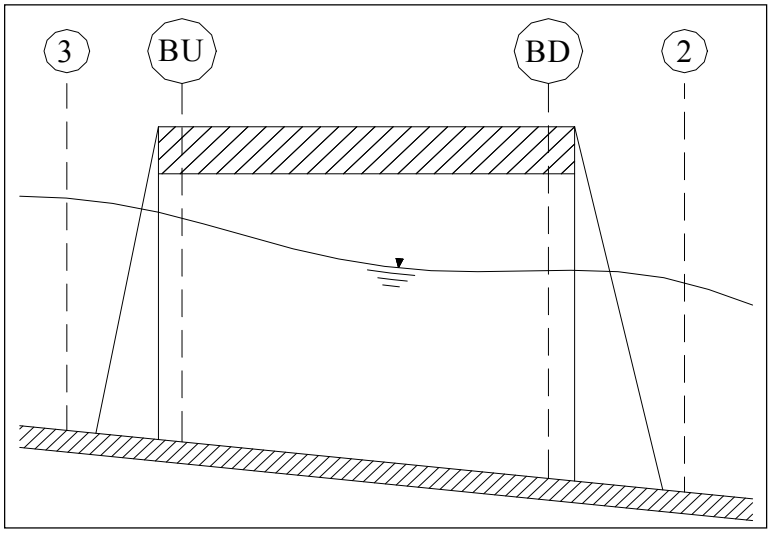


Figura 6 Sezione schematica di un attraversamento fluviale

Tabella 2 - Coefficiente di resistenza idrodinamico CD

TIPO DI PILA	**C_D**
Pila circolare	1.2
Pila allungata con punta semicircolare	1.33
Pila ellittica con rapporto assi 2 :1	0.6
Pila ellittica con rapporto assi 4 :1	0.32
Pila ellittica con rapporto assi 8 :1	0.29
Pila rettangolare	2.00
Pila triangolare con apertura $\alpha = 30°$	1.00
Pila triangolare con apertura $\alpha = 60°$	1.39
Pila triangolare con apertura $\alpha = 90°$	1.60
Pila triangolare con apertura $\alpha = 120°$	1.72

In alternativa all'equazione della conservazione della quantità di moto il software permette anche di utilizzare l'equazione di Yarnell (non utilizzata per i casi specifici) che permette di valutare le perdite di energia localizzate in corrispondenza di un ponte.

Con riferimento alle Figura 4 e Figura 5, le perdite di energia tra le sezioni 2 e 3 sono state valutate nel modo seguente:

$$H_{3-2} = 2K(K + 10\omega - 0.6) \cdot \left(\alpha + 15\alpha^4\right) \cdot \frac{V_2^2}{2g} \qquad (18)$$

dove H_{i-j} rappresenta appunto la perdita di energia nel passaggio della corrente attraverso la sezione ostruita e K, coefficiente di Yarnell, tiene conto delle differenti sagome di pila esistenti, tabella 3;

Tabella 3 - Coefficiente di Yarnell

TIPO DI PILA	K
Pila semicircolare in punta	0.9
Pila cilindrica doppia collegata con diaframma	0.95
Pila cilindrica doppia senza diaframma	1.05
Pila con punta triangolare $\alpha = 90°$	1.05
Pile rettangolari	1.25
Dieci pile a cavalletto inclinate	2.5

ω rappresenta il rapporto tra l'altezza ed il tirante della sezione 2; α il rapporto tra l'area ostruita dalle pile e l'area totale ed infine V_2 la velocità a valle della sezione.

Il modello elaborato prevede una corrente con un'altezza idrica minore dell'altezza di intradosso del ponte. Nel caso di correnti con altezza idrica superiore o eguale alla quota di intradosso dell'attraversamento fluviale, la valutazione delle perdite di energia è effettuata attraverso il calcolo della portata che attraversa la sezione. In particolare, in riferimento ad un caso generico, Figura 6, la portata è calcolata nel modo seguente:

$$Q = C_d A_1 \left[2g \left(Y_1 - \frac{Z}{2} + \frac{\alpha_1 V_1^2}{2g} \right) \right]^{1/2} \qquad (19)$$

dove

Cd, coefficiente di deflusso il cui andamento è riportato nel grafico di Figura 7, assumendo valori tra 0,27 e 0,5;

A1, area della luce nella sezione di monte;

Y1, altezza idrica della sezione di monte;

α, coefficiente correttivo cinetico;

V1, velocità della corrente a monte.

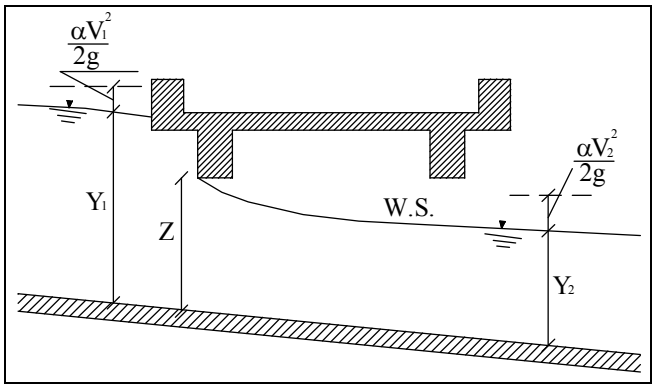


Figura 7 Sezione schematica di un ponte – Schema di calcolo

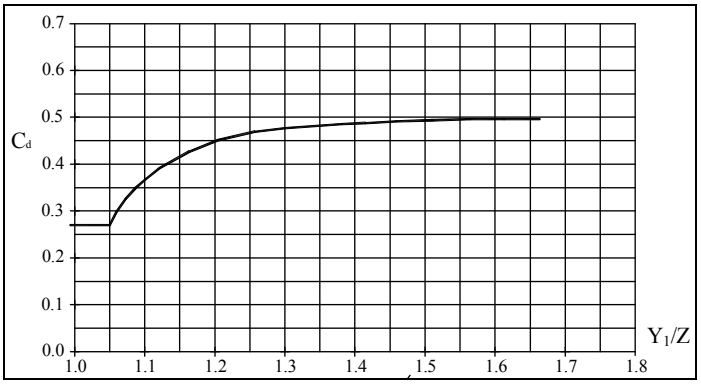


Figura 8 Diagramma per la stima del coefficiente di deflusso Cd

Se il ponte è in pressione sia a monte che a valle l'equazione (19) è corretta nel modo seguente:

$$Q = CA\sqrt{2gH} \tag{20}$$

dove C assume il valore di 0.8 ed H coincide con la perdita di energia totale tra la sezione di monte e di valle del ponte come indicato in Figura 9.

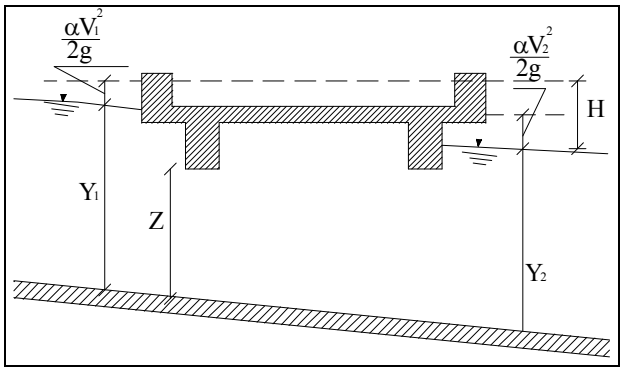


Figura 9 Sezione schematica di un ponte – Schema di calcolo

Infine se il ponte è superato dalla corrente di piena, Figura 10, la portata si calcola nel modo seguente:

$$Q = CLH^{2/3} \tag{21}$$

con C si indica un coefficiente correttivo della portata, L la lunghezza del ponte ed H la differenza di energia tra monte e valle.

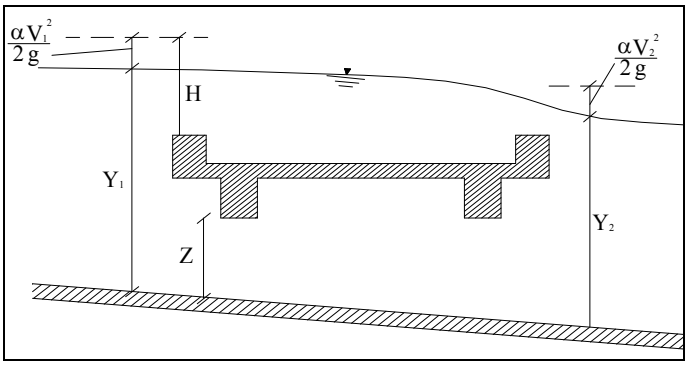
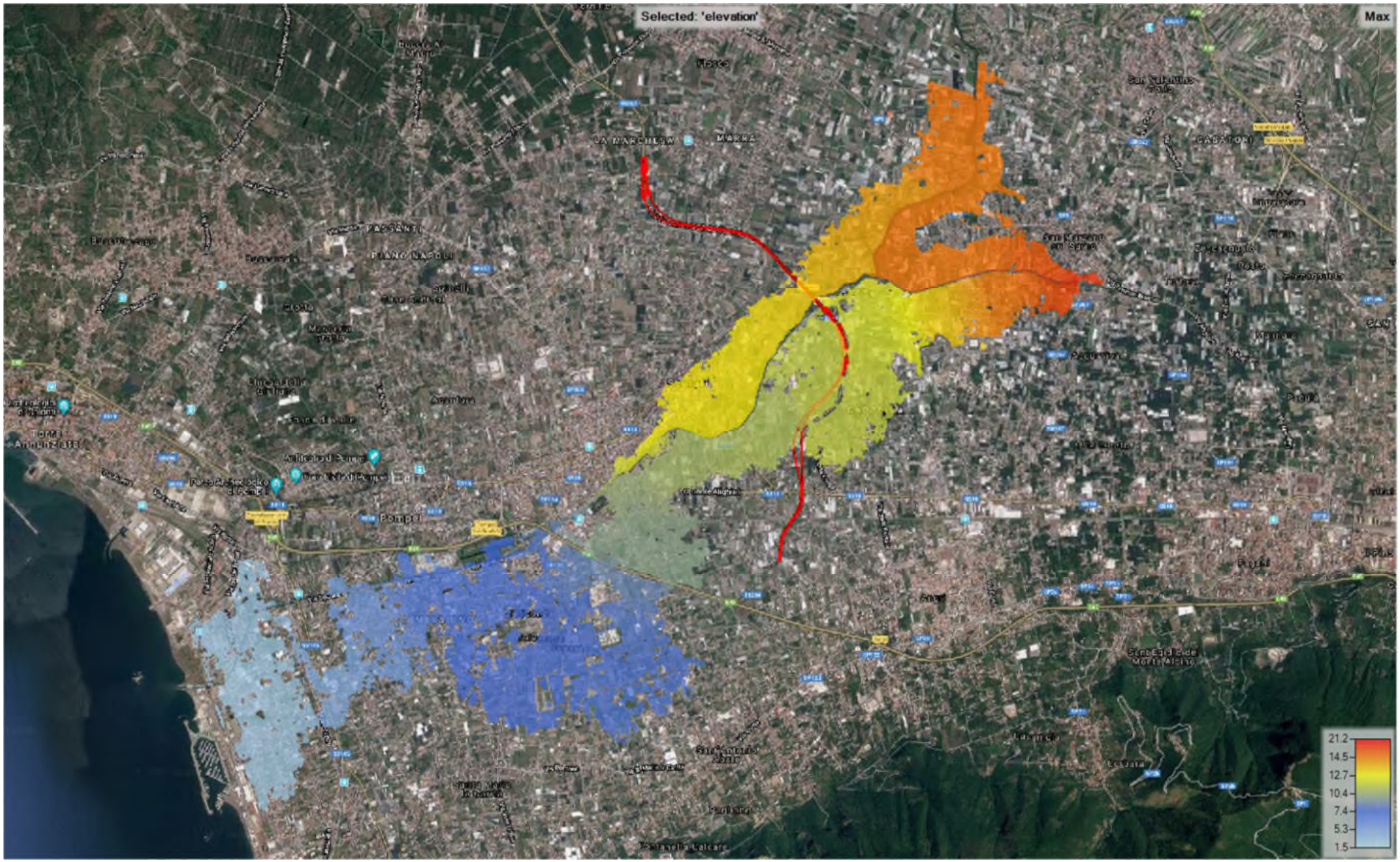


Figura 10 Sezione schematica di un ponte – Schema di calcolo

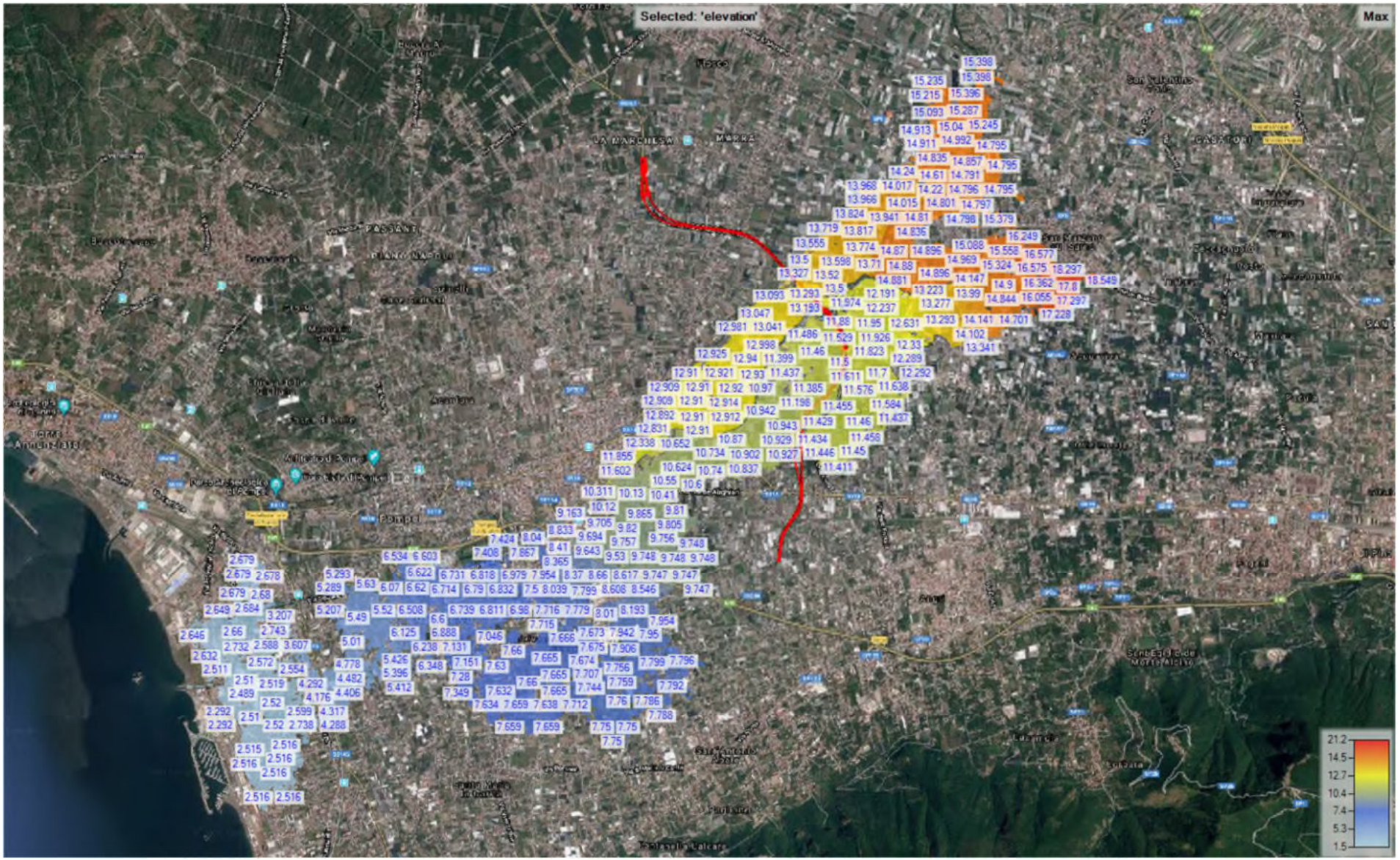
2 ALLEGATO II -
RISULTATI SIMULAZIONI IDRODINAMICHE FIUME SARNO E ALVEO
COMUNE NOCERINO

2.1 CONFIGURAZIONE DI STATO DI FATTO

2.1.1. Configurazione di stato di fatto Evento TR 30 anni



Inviluppo dei massimi livelli idrici



Inviluppo dei massimi livelli idrici (visualizzazione numerica del livello massimo)

HEC-RAS Plan: SDF_REV1_TR30_VAPI Profile: Max WS

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	10158	Max WS	10.91	10.79	3.95	14.74	0.04	14.74	0.18	2.43
Sarno_valle	Sarno_valle	10156		Lat Struct							
Sarno_valle	Sarno_valle	10155		Lat Struct							
Sarno_valle	Sarno_valle	10050	Max WS	9.34	10.75	3.24	13.99	0.10	14.00	0.41	1.77
Sarno_valle	Sarno_valle	9965	Max WS	9.06	10.71	2.79	13.50	0.19	13.52	0.73	1.54
Sarno_valle	Sarno_valle	9887	Max WS	9.02	10.68	2.79	13.47	0.09	13.47	0.39	1.73
Sarno_valle	Sarno_valle	9824	Max WS	9.00	10.57	2.87	13.44	0.12	13.45	0.48	1.55
Sarno_valle	Sarno_valle	9751	Max WS	8.99	10.43	2.99	13.42	0.12	13.43	0.46	1.60
Sarno_valle	Sarno_valle	9629	Max WS	8.98	10.36	3.00	13.36	0.12	13.38	0.48	1.55
Sarno_valle	Sarno_valle	9518	Max WS	8.98	10.30	3.03	13.33	0.09	13.34	0.38	1.72
Sarno_valle	Sarno_valle	9435	Max WS	8.98	10.22	3.06	13.28	0.16	13.30	0.66	1.69
Sarno_valle	Sarno_valle	9396	Max WS	8.97	10.18	3.08	13.26	0.12	13.28	0.48	1.58
Sarno_valle	Sarno_valle	9363	Max WS	8.97	10.14	3.09	13.24	0.17	13.26	0.67	1.68
Sarno_valle	Sarno_valle	9318	Max WS	8.97	10.10	3.10	13.20	0.17	13.22	0.68	1.65
Sarno_valle	Sarno_valle	9130	Max WS	8.95	9.90	3.22	13.12	0.08	13.12	0.32	1.70
Sarno_valle	Sarno_valle	8979	Max WS	8.92	9.75	3.31	13.06	0.13	13.08	0.53	1.66
Sarno_valle	Sarno_valle	8789	Max WS	8.86	9.60	3.41	13.01	0.09	13.02	0.36	1.80
Sarno_valle	Sarno_valle	8648	Max WS	8.76	9.45	3.52	12.97	0.11	12.98	0.44	1.64
Sarno_valle	Sarno_valle	8574	Max WS	8.72	9.37	3.59	12.96	0.08	12.96	0.32	1.73
Sarno_valle	Sarno_valle	8311	Max WS	8.63	9.25	3.68	12.93	0.05	12.93	0.22	2.22
Sarno_valle	Sarno_valle	8123	Max WS	8.44	9.08	3.84	12.92	0.04	12.92	0.20	2.31
Sarno_valle	Sarno_valle	7939	Max WS	8.30	8.98	3.93	12.91	0.05	12.91	0.23	2.00
Sarno_valle	Sarno_valle	7710	Max WS	4.22	8.80	4.10	12.90	0.02	12.90	0.10	1.88
Sarno_valle	Sarno_valle	7544	Max WS	-2.00	8.63	4.27	12.90	0.01	12.90	-0.04	1.79
Sarno_valle	Sarno_valle	7437	Max WS	4.89	8.41	4.49	12.90	0.02	12.90	0.10	2.02
Sarno_valle	Sarno_valle	7410	Max WS	13.23	8.41	4.48	12.89	0.06	12.89	0.29	2.11
Sarno_valle	Sarno_valle	7388	Max WS	22.78	8.40	4.47	12.87	0.11	12.88	0.50	2.14
Sarno_valle	Sarno_valle	7351	Max WS	29.96	8.37	4.45	12.82	0.16	12.85	0.69	1.86
Sarno_valle	Sarno_valle	7310	Max WS	28.69	8.32	4.47	12.79	0.16	12.82	0.73	2.14
Sarno_valle	Sarno_valle	7220	Max WS	21.00	8.21	4.55	12.76	0.12	12.78	0.54	1.98
Sarno_valle	Sarno_valle	7143	Max WS	14.99	8.20	4.55	12.75	0.09	12.75	0.36	1.84
Sarno_valle	Sarno_valle	7121	Max WS	13.81	8.20	4.54	12.74	0.08	12.75	0.35	1.86

HEC-RAS Plan: SDF_REV1_TR30_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	7042	Max WS	8.14	8.18	4.56	12.74	0.04	12.75	0.17	2.27
Sarno_valle	Sarno_valle	6896	Max WS	7.49	8.10	4.64	12.74	0.03	12.74	0.15	2.80
Sarno_valle	Sarno_valle	6751	Max WS	11.22	8.03	4.71	12.74	0.05	12.74	0.24	2.25
Sarno_valle	Sarno_valle	6575	Max WS	30.14	7.96	4.68	12.64	0.14	12.66	0.59	1.81
Sarno_valle	Sarno_valle	6325	Max WS	53.10	7.86	4.29	12.15	0.24	12.22	1.15	2.29
Sarno_valle	Sarno_valle	6158	Max WS	29.93	7.79	4.23	12.02	0.16	12.05	0.76	2.24
Sarno_valle	Sarno_valle	6097	Max WS	39.78	7.34	4.59	11.93	0.20	11.98	0.99	2.53
Sarno_valle	Sarno_valle	6081	Max WS	55.45	7.26	4.50	11.76	0.32	11.89	1.59	2.45
Sarno_valle	Sarno_valle	6076	Max WS	55.59	7.25	4.53	11.78	0.28	11.87	1.31	2.27
Sarno_valle	Sarno_valle	6049	Max WS	37.63	7.21	4.61	11.82	0.21	11.87	0.94	2.14
Sarno_valle	Sarno_valle	5980	Max WS	62.85	7.09	4.17	11.26	0.53	11.53	2.31	1.94
Sarno_valle	Sarno_valle	5917	Max WS	71.64	6.98	3.78	10.76	0.53	11.02	2.24	1.85
Sarno_valle	Sarno_valle	5881	Max WS	119.11	5.85	4.66	10.51	0.32	10.65	1.62	2.53
Sarno_valle	Sarno_valle	5861	Max WS	96.27	5.84	4.38	10.22	0.28	10.31	1.36	2.50
Sarno_valle	Sarno_valle	5812	Max WS	60.45	5.79	4.55	10.34	0.20	10.40	1.10	2.61
Sarno_valle	Sarno_valle	5744	Max WS	52.33	5.71	4.67	10.38	0.21	10.44	1.14	2.88
Sarno_valle	Sarno_valle	5662	Max WS	46.47	5.59	4.60	10.19	0.28	10.28	1.29	2.17
Sarno_valle	Sarno_valle	5604	Max WS	43.55	5.54	4.07	9.61	0.66	10.02	2.84	1.91
Sarno_valle	Sarno_valle	5552	Max WS	41.26	5.35	4.01	9.35	0.33	9.48	1.55	2.22
Sarno_valle	Sarno_valle	5478	Max WS	39.52	5.26	4.02	9.28	0.19	9.31	0.81	1.81
Sarno_valle	Sarno_valle	5415	Max WS	34.95	4.41	4.87	9.28	0.12	9.31	0.67	3.24
Sarno_valle	Sarno_valle	5359	Max WS	63.48	4.40	4.82	9.22	0.20	9.28	1.08	2.84
Sarno_valle	Sarno_valle	5279	Max WS	41.85	4.31	4.88	9.19	0.13	9.21	0.68	2.79
Sarno_valle	Sarno_valle	5251	Max WS	58.36	4.29	4.65	8.94	0.39	9.08	1.67	1.85
Sarno_valle	Sarno_valle	5222	Max WS	52.35	4.21	4.69	8.90	0.19	8.96	1.03	3.05
Sarno_valle	Sarno_valle	5206	Max WS	51.64	4.14	4.76	8.90	0.18	8.94	0.90	2.60
Sarno_valle	Sarno_valle	5199	Max WS	51.18	4.13	4.74	8.87	0.25	8.94	1.15	2.18
Sarno_valle	Sarno_valle	5145	Max WS	47.01	4.11	4.77	8.88	0.14	8.91	0.77	2.96
Sarno_valle	Sarno_valle	5137	Max WS	46.86	4.10	4.76	8.86	0.23	8.92	1.07	2.25
Sarno_valle	Sarno_valle	5131	Max WS	52.33	4.09	4.59	8.68	0.59	8.91	2.13	1.31
Sarno_valle	Sarno_valle	5107	Max WS	55.61	4.07	4.47	8.54	0.23	8.60	1.10	2.26
Sarno_valle	Sarno_valle	5074	Max WS	36.49	4.05	4.48	8.53	0.23	8.58	0.96	1.74

HEC-RAS Plan: SDF_REV1_TR30_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	5013	Max WS	26.58	4.01	4.47	8.48	0.17	8.50	0.67	1.70
Sarno_valle	Sarno_valle	4982	Max WS	45.94	3.99	4.41	8.40	0.19	8.44	0.85	2.15
Sarno_valle	Sarno_valle	4928	Max WS	44.50	3.87	4.31	8.18	0.31	8.27	1.32	1.89
Sarno_valle	Sarno_valle	4906	Max WS	41.43	3.74	4.44	8.18	0.24	8.23	1.02	1.89
Sarno_valle	Sarno_valle	4785	Max WS	33.85	3.44	4.63	8.07	0.14	8.09	0.67	2.28
Sarno_valle	Sarno_valle	4706	Max WS	44.73	3.38	4.58	7.96	0.20	8.00	0.93	2.17
Sarno_valle	Sarno_valle	4661	Max WS	47.53	3.38	4.53	7.91	0.19	7.95	0.84	1.89
Sarno_valle	Sarno_valle	4625	Max WS	48.30	3.28	4.58	7.86	0.18	7.90	0.95	2.73
Sarno_valle	Sarno_valle	4603	Max WS	46.74	3.27	4.60	7.87	0.16	7.89	0.71	1.98
Sarno_valle	Sarno_valle	4568	Max WS	48.99	3.25	4.61	7.86	0.14	7.88	0.70	2.54
Sarno_valle	Sarno_valle	4531	Max WS	32.98	3.22	4.66	7.88	0.08	7.89	0.43	2.48
Sarno_valle	Sarno_valle	4463	Max WS	46.37	3.20	4.60	7.80	0.19	7.82	0.74	1.61
Sarno_valle	Sarno_valle	4351	Max WS	47.44	3.18	4.36	7.54	0.29	7.62	1.24	1.89
Sarno_valle	Sarno_valle	4284	Max WS	41.25	3.06	4.41	7.47	0.21	7.50	0.80	1.54
Sarno_valle	Sarno_valle	4061	Max WS	44.44	2.68	4.52	7.20	0.21	7.25	0.95	2.02
Sarno_valle	Sarno_valle	3919	Max WS	44.06	2.48	4.50	6.98	0.24	7.04	1.11	2.19
Sarno_valle	Sarno_valle	3863	Max WS	44.92	2.38	4.55	6.93	0.16	6.97	0.82	2.63
Sarno_valle	Sarno_valle	3844	Max WS	44.74	2.37	4.56	6.93	0.14	6.95	0.72	2.57
Sarno_valle	Sarno_valle	3800	Max WS	42.04	2.24	4.70	6.94	0.12	6.96	0.64	3.14
Sarno_valle	Sarno_valle	3685	Max WS	39.40	2.10	4.72	6.82	0.18	6.85	0.83	2.18
Sarno_valle	Sarno_valle	3499	Max WS	31.29	1.84	4.89	6.73	0.12	6.74	0.57	2.35
Sarno_valle	Sarno_valle	3144	Max WS	43.76	1.41	5.05	6.46	0.19	6.50	0.86	2.17
Sarno_valle	Sarno_valle	3039	Max WS	43.00	1.34	5.07	6.41	0.12	6.43	0.66	3.23
Sarno_valle	Sarno_valle	3015	Max WS	42.24	1.32	5.04	6.36	0.21	6.41	1.04	2.45
Sarno_valle	Sarno_valle	2928	Max WS	41.90	1.27	4.99	6.26	0.19	6.31	0.93	2.34
Sarno_valle	Sarno_valle	2827	Max WS	41.78	1.14	4.83	5.97	0.35	6.09	1.58	2.04
Sarno_valle	Sarno_valle	2768	Max WS	41.74	1.00	4.91	5.91	0.20	5.95	0.95	2.29
Sarno_valle	Sarno_valle	2752	Max WS	41.74	0.96	4.87	5.84	0.29	5.93	1.35	2.26
Sarno_valle	Sarno_valle	2705	Max WS	41.21	0.88	4.85	5.73	0.27	5.79	1.09	1.62
Sarno_valle	Sarno_valle	2514	Max WS	38.74	0.70	4.65	5.35	0.19	5.39	0.86	2.04
Sarno_valle	Sarno_valle	2387	Max WS	32.69	0.52	4.78	5.30	0.12	5.31	0.61	2.83
Sarno_valle	Sarno_valle	2285	Max WS	41.64	0.40	4.75	5.15	0.22	5.21	1.05	2.31

HEC-RAS Plan: SDF_REV1_TR30_VAPI Profile: Max WS (Continued)

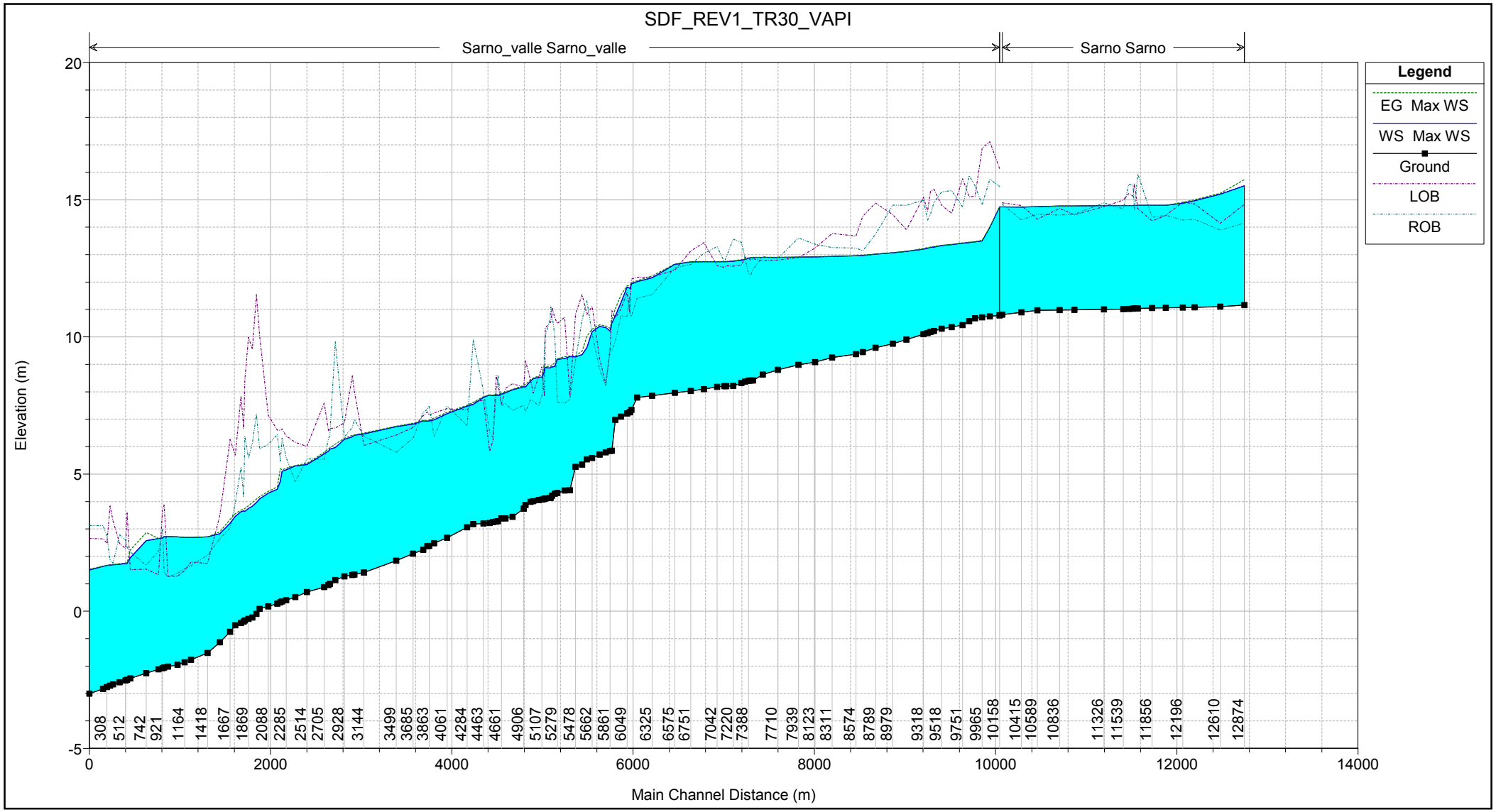
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	2240	Max WS	41.64	0.36	4.74	5.10	0.21	5.16	1.03	2.53
Sarno_valle	Sarno_valle	2220	Max WS	41.64	0.33	4.41	4.74	0.71	5.19	3.00	1.82
Sarno_valle	Sarno_valle	2189	Max WS	41.64	0.28	4.17	4.45	0.27	4.53	1.25	2.22
Sarno_valle	Sarno_valle	2088	Max WS	41.64	0.18	4.13	4.31	0.23	4.37	1.11	2.33
Sarno_valle	Sarno_valle	1993	Max WS	41.64	0.09	4.00	4.09	0.30	4.18	1.29	1.90
Sarno_valle	Sarno_valle	1957	Max WS	41.64	-0.10	4.06	3.96	0.34	4.08	1.56	2.16
Sarno_valle	Sarno_valle	1913	Max WS	41.64	-0.23	4.06	3.83	0.36	3.96	1.62	2.11
Sarno_valle	Sarno_valle	1869	Max WS	41.64	-0.28	4.03	3.75	0.30	3.84	1.36	2.05
Sarno_valle	Sarno_valle	1829	Max WS	41.64	-0.34	3.98	3.64	0.31	3.75	1.49	2.29
Sarno_valle	Sarno_valle	1816	Max WS	41.64	-0.38	4.04	3.66	0.23	3.72	1.13	2.55
Sarno_valle	Sarno_valle	1787	Max WS	41.59	-0.43	4.06	3.63	0.21	3.69	1.08	2.58
Sarno_valle	Sarno_valle	1724	Max WS	41.53	-0.51	3.96	3.45	0.33	3.56	1.41	1.89
Sarno_valle	Sarno_valle	1667	Max WS	41.26	-0.75	3.96	3.21	0.38	3.35	1.67	1.96
Sarno_valle	Sarno_valle	1553	Max WS	33.03	-1.13	3.96	2.83	0.33	2.90	1.16	1.26
Sarno_valle	Sarno_valle	1418	Max WS	11.72	-1.52	4.23	2.71	0.06	2.71	0.25	1.77
Sarno_valle	Sarno_valle	1235	Max WS	15.60	-1.77	4.46	2.69	0.07	2.69	0.32	2.29
Sarno_valle	Sarno_valle	1164	Max WS	12.40	-1.86	4.55	2.69	0.09	2.69	0.39	1.99
Sarno_valle	Sarno_valle	1088	Max WS	6.14	-1.95	4.66	2.71	0.03	2.72	0.15	2.50
Sarno_valle	Sarno_valle	981	Max WS	1.27	-2.02	4.74	2.72	0.00	2.72	0.02	2.89
Sarno_valle	Sarno_valle	940	Max WS	19.96	-2.05	4.77	2.72	0.11	2.73	0.50	2.30
Sarno_valle	Sarno_valle	921	Max WS	17.58	-2.08	4.75	2.67	0.11	2.68	0.51	2.00
Sarno_valle	Sarno_valle	877	Max WS	6.13	-2.12	4.77	2.65	0.02	2.65	0.08	2.38
Sarno_valle	Sarno_valle	742	Max WS	-95.79	-2.26	4.83	2.57	0.50	2.87	-2.41	2.33
Sarno_valle	Sarno_valle	564	Max WS	55.06	-2.45	4.40	1.95	0.69	2.23	2.35	1.17
Sarno_valle	Sarno_valle	531	Max WS	-22.32	-2.50	4.24	1.74	0.15	1.76	-0.66	2.09
Sarno_valle	Sarno_valle	512	Max WS	-22.70	-2.52	4.26	1.74	0.13	1.76	-0.64	2.44
Sarno_valle	Sarno_valle	447	Max WS	-26.80	-2.59	4.30	1.71	0.12	1.74	-0.70	3.69
Sarno_valle	Sarno_valle	375	Max WS	-31.24	-2.66	4.35	1.69	0.11	1.71	-0.56	2.48
Sarno_valle	Sarno_valle	343	Max WS	-31.52	-2.71	4.39	1.68	0.07	1.69	-0.36	2.91
Sarno_valle	Sarno_valle	308	Max WS	-38.07	-2.76	4.42	1.66	0.06	1.67	-0.37	3.70
Sarno_valle	Sarno_valle	264	Max WS	-39.60	-2.83	4.46	1.63	0.07	1.64	-0.39	3.55
Sarno_valle	Sarno_valle	114	Max WS	-91.03	-3.00	4.50	1.50	0.15	1.54	-0.86	3.18

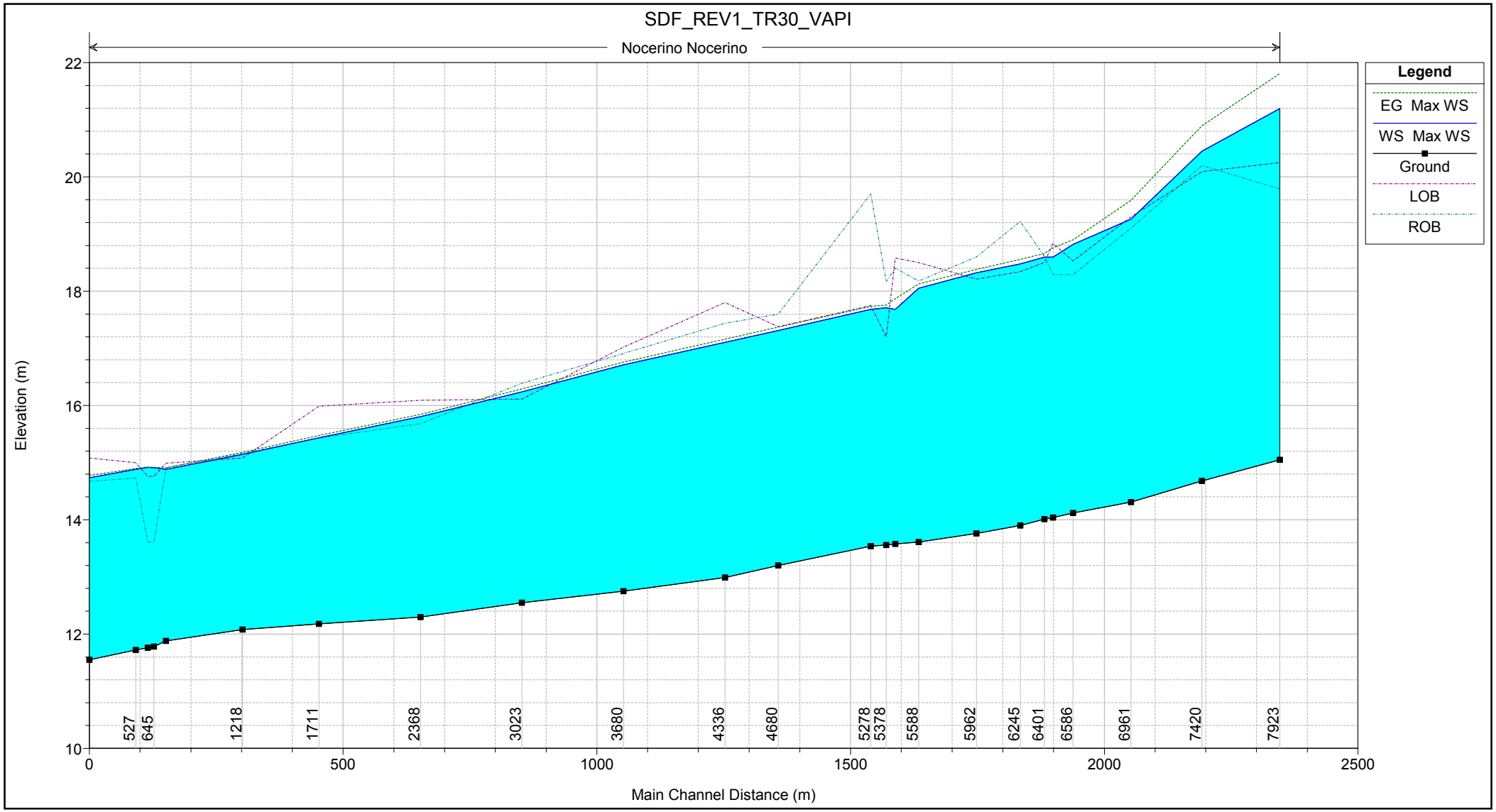
HEC-RAS Plan: SDF_REV1_TR30_VAPI Profile: Max WS (Continued)

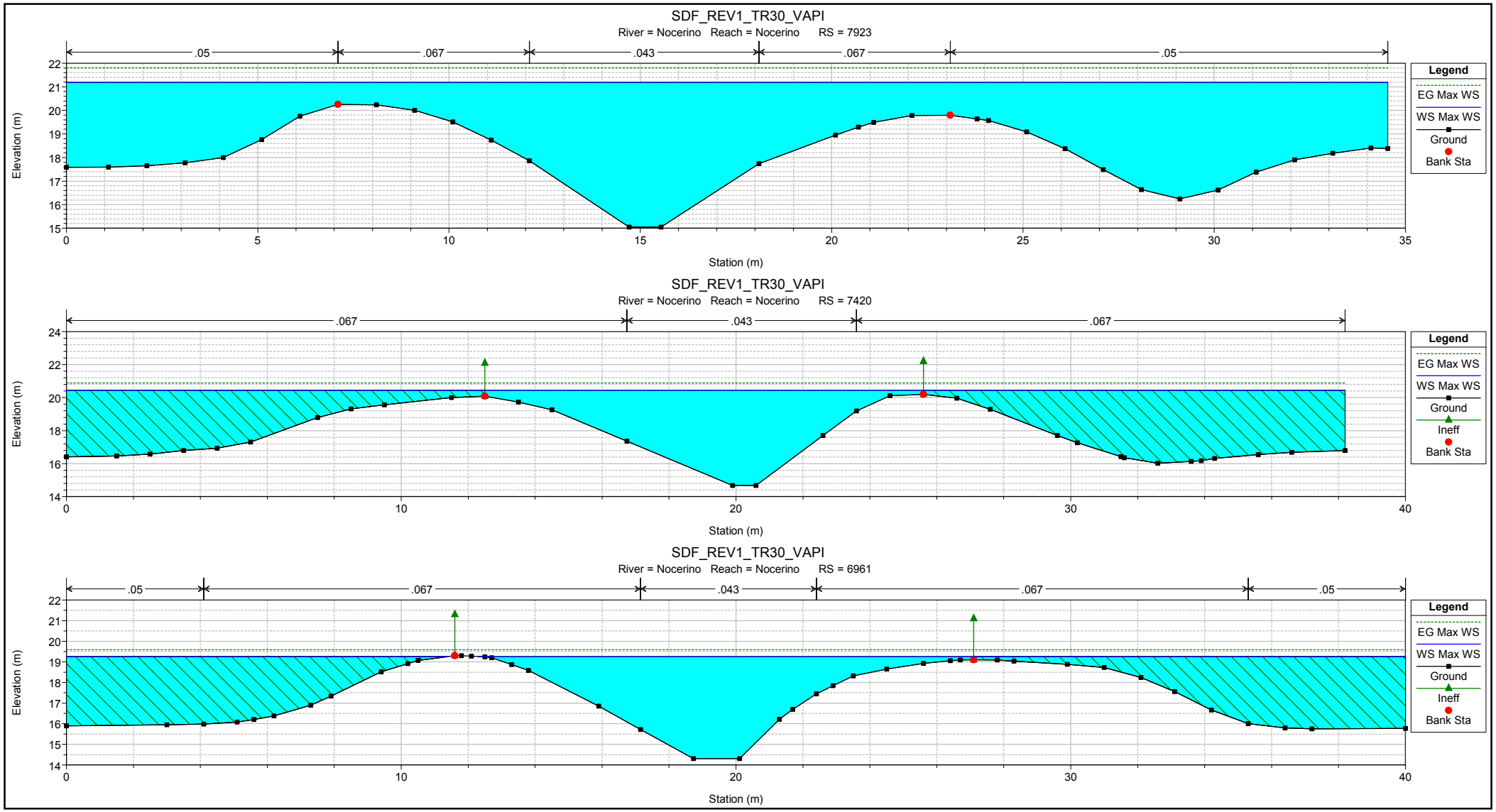
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno	Sarno	12874	Max WS	194.81	11.16	4.35	15.51	0.46	15.73	2.30	1.88
Sarno	Sarno	12873		Lat Struct							
Sarno	Sarno	12872		Lat Struct							
Sarno	Sarno	12610	Max WS	50.22	11.10	4.10	15.20	0.19	15.24	0.90	2.25
Sarno	Sarno	12325	Max WS	47.37	11.08	3.88	14.96	0.20	15.01	0.92	2.11
Sarno	Sarno	12196	Max WS	57.62	11.07	3.80	14.87	0.17	14.91	0.84	2.59
Sarno	Sarno	12006	Max WS	16.98	11.06	3.74	14.80	0.05	14.80	0.23	2.14
Sarno	Sarno	11856	Max WS	7.68	11.05	3.75	14.80	0.04	14.80	0.16	1.89
Sarno	Sarno	11698	Max WS	9.51	11.04	3.76	14.80	0.03	14.80	0.16	2.26
Sarno	Sarno	11660	Max WS	8.73	11.03	3.76	14.79	0.05	14.79	0.19	1.63
Sarno	Sarno	11647	Max WS	8.20	11.02	3.77	14.79	0.05	14.79	0.21	1.69
Sarno	Sarno	11598	Max WS	7.94	11.02	3.77	14.79	0.03	14.79	0.14	2.62
Sarno	Sarno	11539	Max WS	7.56	11.01	3.78	14.79	0.03	14.79	0.11	2.05
Sarno	Sarno	11326	Max WS	5.40	11.00	3.79	14.79	0.02	14.79	0.08	2.12
Sarno	Sarno	11000	Max WS	21.52	10.99	3.78	14.77	0.06	14.78	0.26	2.31
Sarno	Sarno	10836	Max WS	10.55	10.98	3.79	14.77	0.04	14.77	0.17	2.08
Sarno	Sarno	10589	Max WS	27.43	10.97	3.77	14.74	0.07	14.75	0.32	2.34
Sarno	Sarno	10415	Max WS	17.81	10.90	3.83	14.73	0.09	14.74	0.34	1.57
Sarno	Sarno	10205	Max WS	-4.28	10.81	3.93	14.74	0.02	14.74	-0.08	1.76

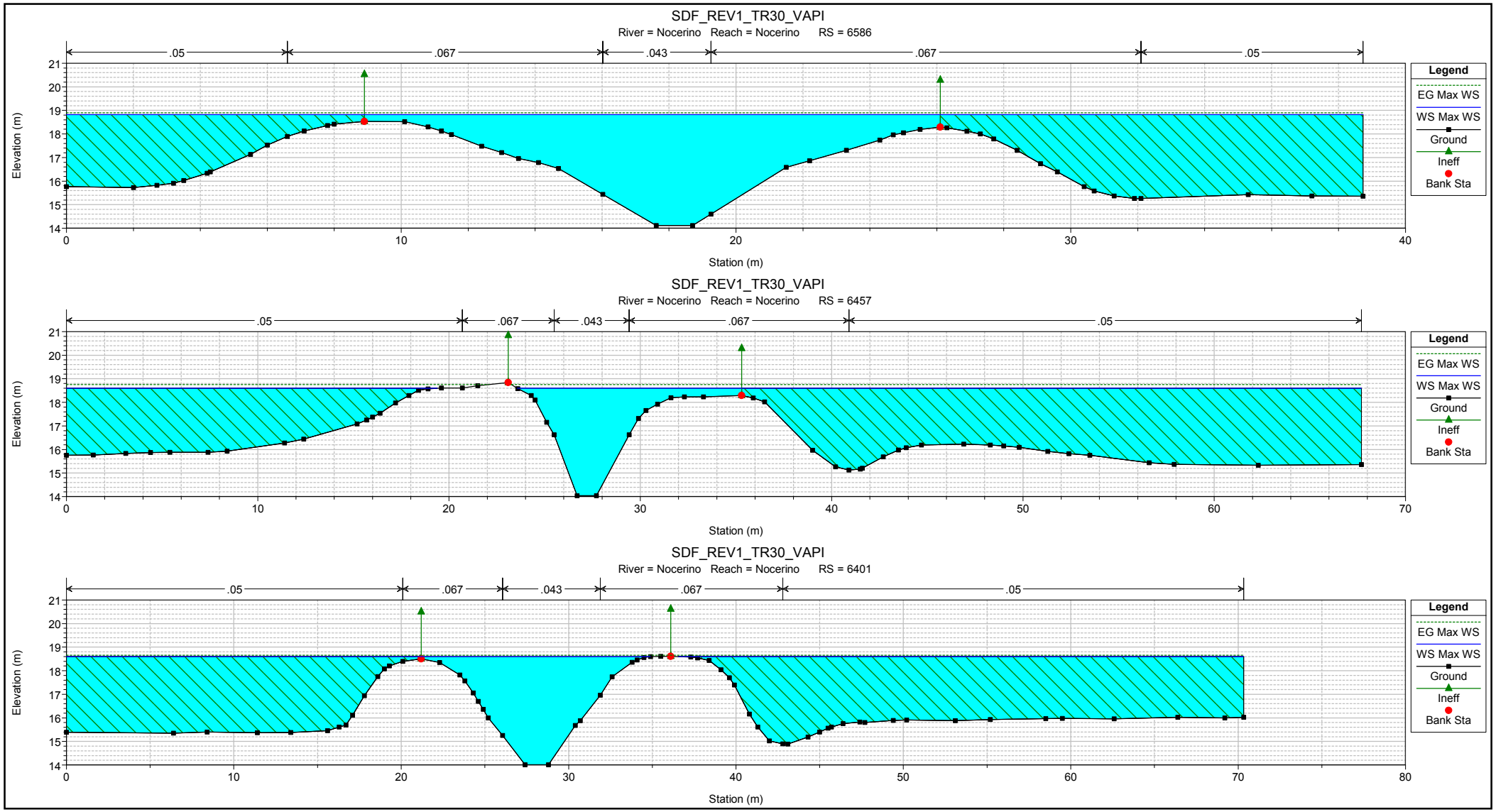
HEC-RAS Plan: SDF_REV1_TR30_VAPI River: Nocerino Reach: Nocerino Profile: Max WS

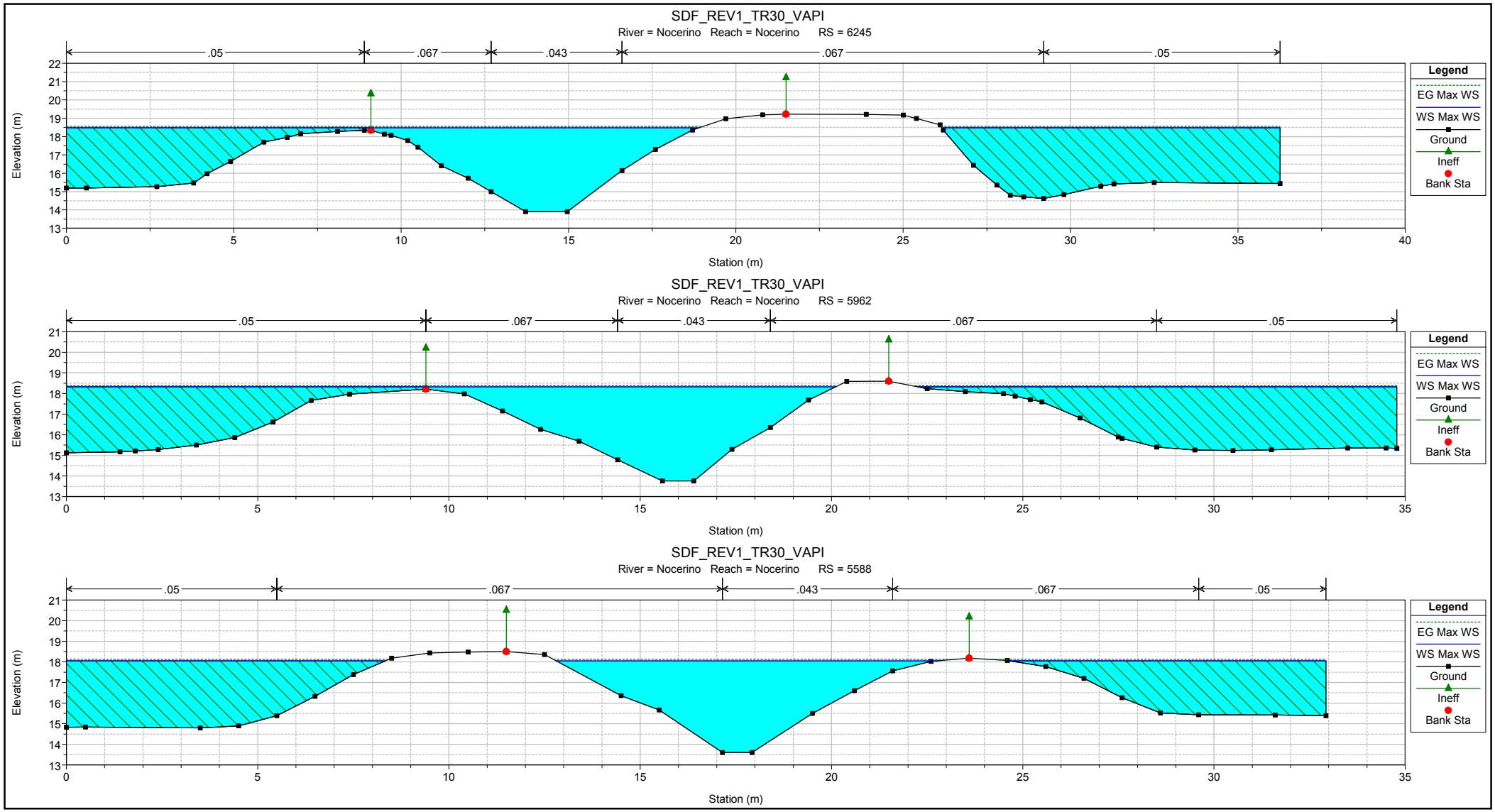
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
			(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Nocerino	7923	Max WS	368.51	15.05	6.14	21.19	0.62	21.81	3.37	3.10
Nocerino	7922		Lat Struct							
Nocerino	7921		Lat Struct							
Nocerino	7420	Max WS	106.05	14.68	5.77	20.45	0.57	20.89	2.95	2.74
Nocerino	6961	Max WS	79.84	14.31	4.95	19.26	0.56	19.59	2.54	2.13
Nocerino	6586	Max WS	46.81	14.12	4.70	18.82	0.27	18.90	1.25	2.17
Nocerino	6457	Max WS	33.67	14.04	4.56	18.60	0.45	18.76	1.78	1.62
Nocerino	6401	Max WS	32.30	14.01	4.59	18.60	0.24	18.66	1.11	2.12
Nocerino	6245	Max WS	30.25	13.90	4.58	18.48	0.26	18.56	1.27	2.43
Nocerino	5962	Max WS	26.22	13.76	4.56	18.32	0.23	18.38	1.08	2.28
Nocerino	5588	Max WS	25.84	13.61	4.44	18.05	0.26	18.13	1.20	2.15
Nocerino	5437	Max WS	25.84	13.58	4.10	17.68	0.45	17.87	1.93	1.90
Nocerino	5378	Max WS	24.79	13.56	4.15	17.71	0.21	17.76	0.97	2.24
Nocerino	5278	Max WS	20.46	13.54	4.14	17.68	0.22	17.73	0.98	2.07
Nocerino	4680	Max WS	20.49	13.20	4.11	17.31	0.26	17.37	1.09	1.85
Nocerino	4336	Max WS	20.37	12.99	4.11	17.10	0.22	17.16	1.05	2.33
Nocerino	3680	Max WS	20.06	12.75	3.96	16.71	0.24	16.76	0.97	1.73
Nocerino	3023	Max WS	18.88	12.55	3.69	16.24	0.25	16.29	0.99	1.56
Nocerino	2368	Max WS	16.53	12.30	3.50	15.80	0.24	15.85	0.91	1.52
Nocerino	1711	Max WS	13.68	12.18	3.26	15.44	0.25	15.48	0.88	1.29
Nocerino	1218	Max WS	13.47	12.08	3.07	15.15	0.24	15.18	0.82	1.17
Nocerino	723	Max WS	13.02	11.88	3.08	14.88	0.21	14.91	0.75	1.35
Nocerino	645	Max WS	11.46	11.78	3.13	14.91	0.09	14.92	0.38	1.85
Nocerino	605	Max WS	9.98	11.76	3.16	14.92	0.08	14.92	0.33	1.91
Nocerino	527	Max WS	8.37	11.72	3.16	14.88	0.16	14.90	0.52	1.16
Nocerino	227	Max WS	15.19	11.55	3.19	14.74	0.24	14.78	0.87	1.37

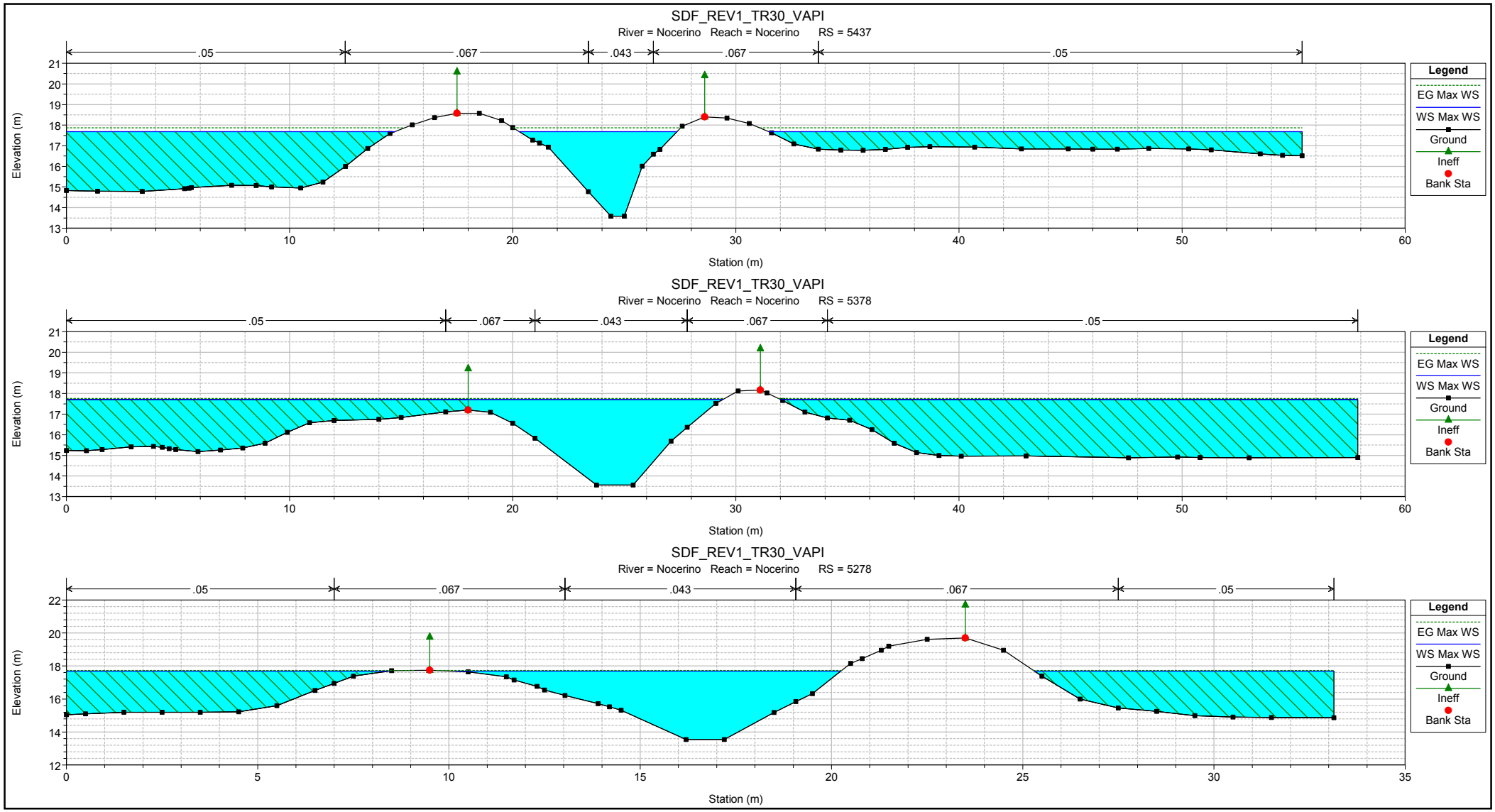

SDF_REV1_TR30_VAPI
Sarno_valle Sarno_valle
Sarno Sarno
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
20
15
10
5
0
-5
0
2000
4000
6000
8000
10000
12000
14000
308
512
742
921
1164
1418
1667
1869
2088
2285
2514
2705
2928
3144
3499
3685
3863
4061
4284
4463
4661
4906
5107
5279
5478
5662
5861
6049
6325
6575
6751
7042
7220
7388
7710
7939
8123
8311
8574
8789
8979
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9751
9965
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10589
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11326
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11856
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12610
12874

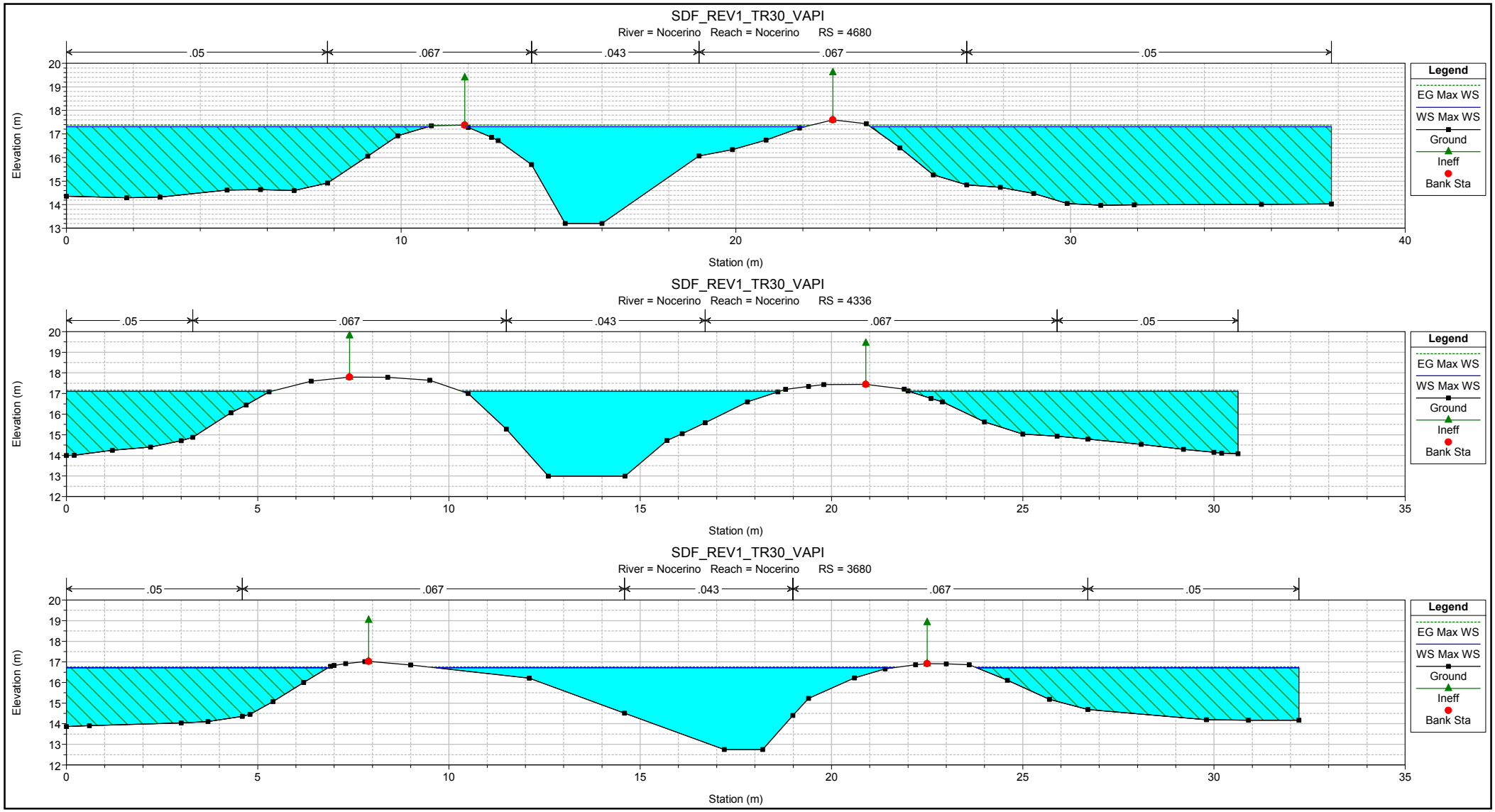

SDF_REV1_TR30_VAPI
Nocerino Nocerino
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
22
20
18
16
14
12
10
0
500
1000
1500
2000
2500
527
645
1218
1711
2368
3023
3680
4336
4680
5278
5378
5588
5962
6245
6401
6586
6961
7420
7923

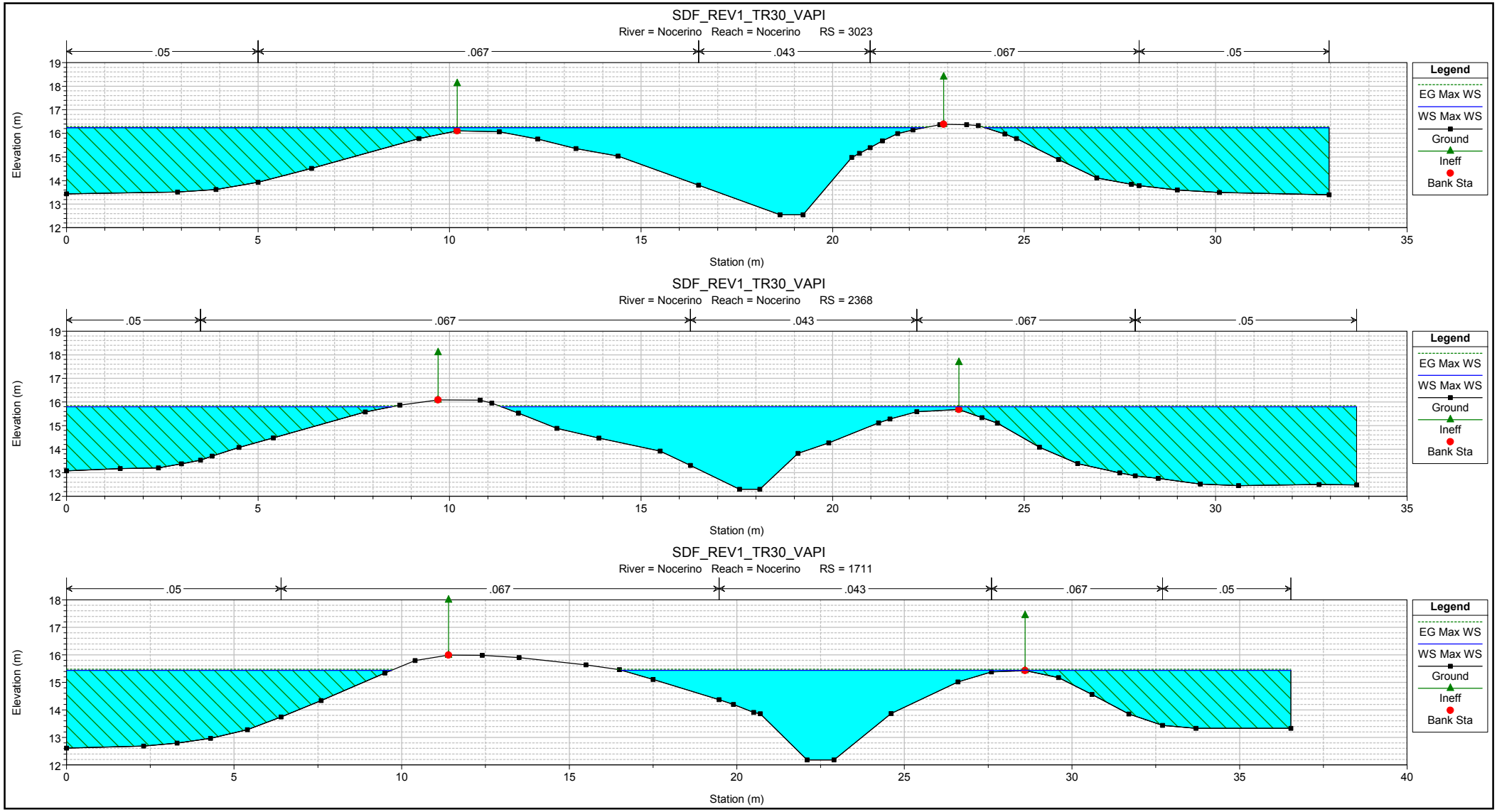

SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 7923
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 7420
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6961
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

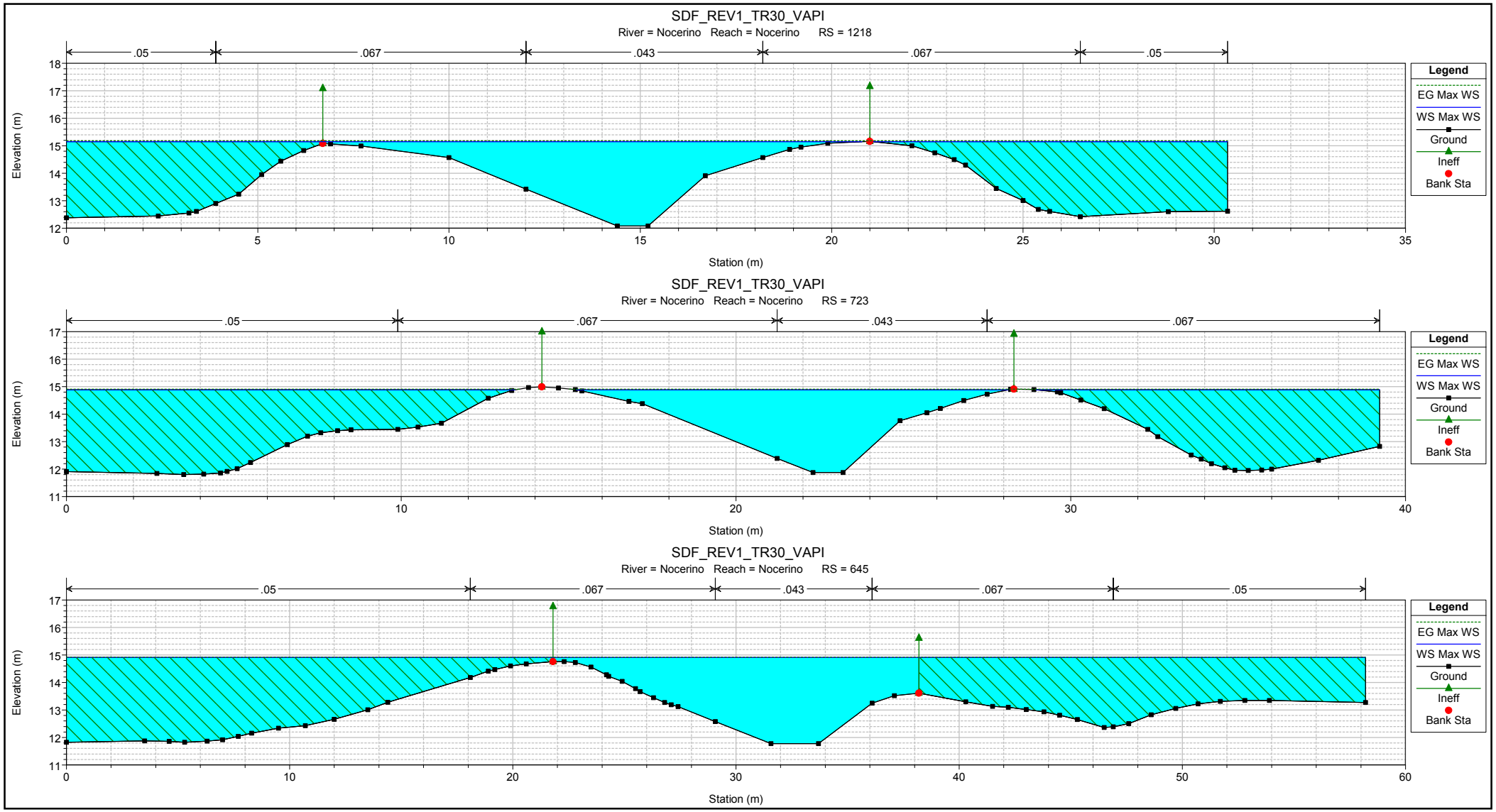

SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6586
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6457
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6401
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

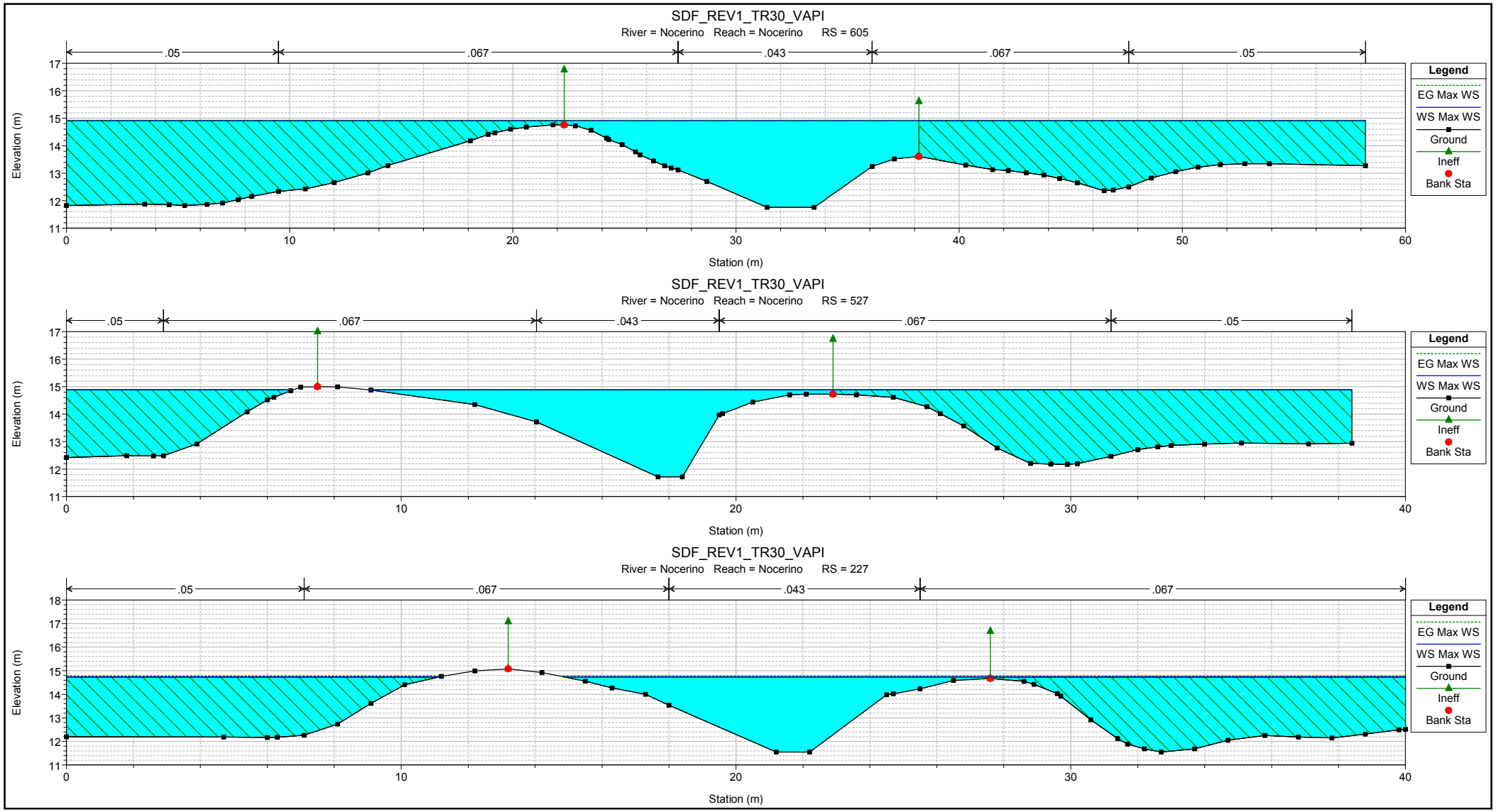

SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6245
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5962
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5588
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

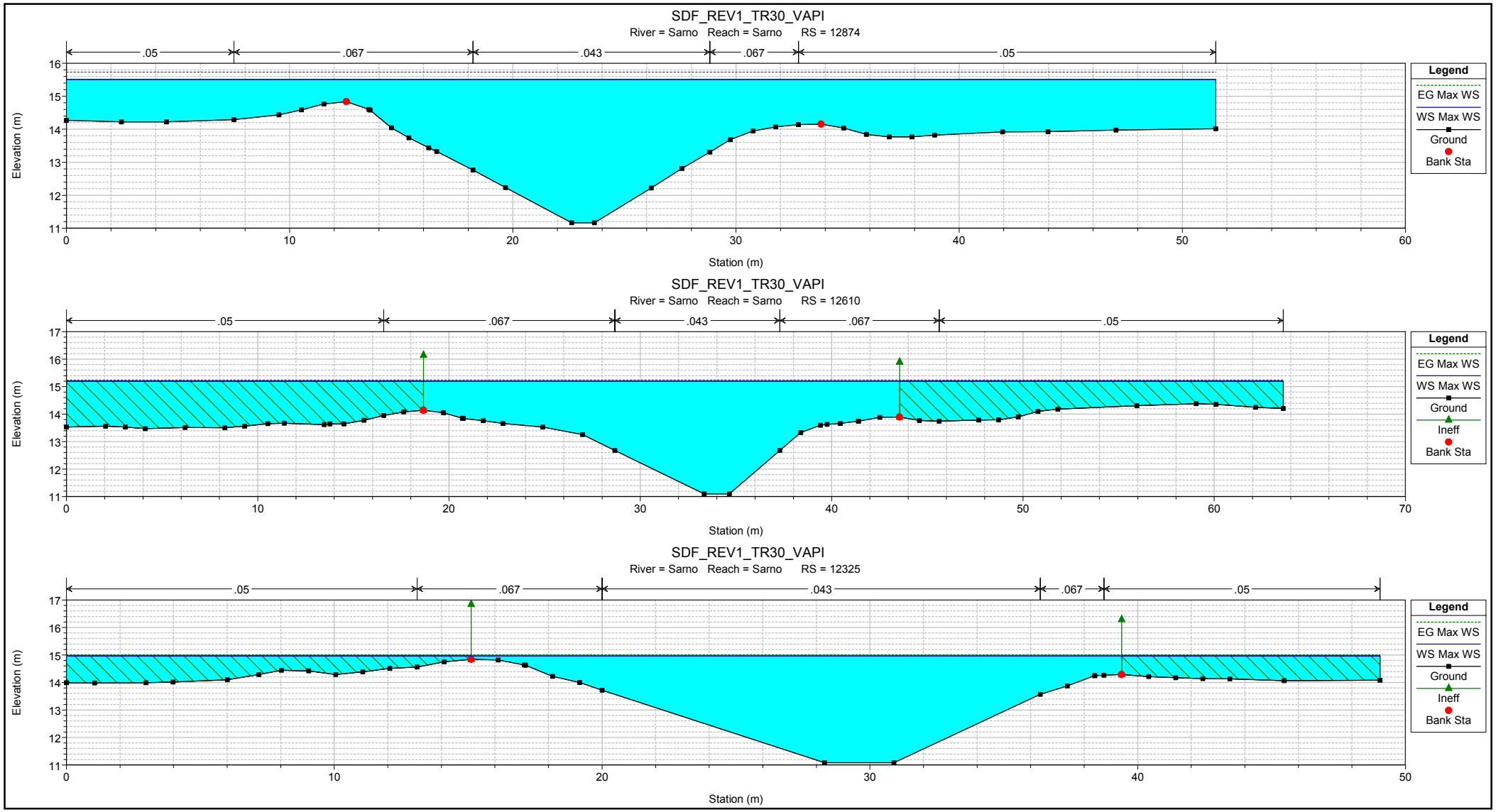

SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5378
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5278
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

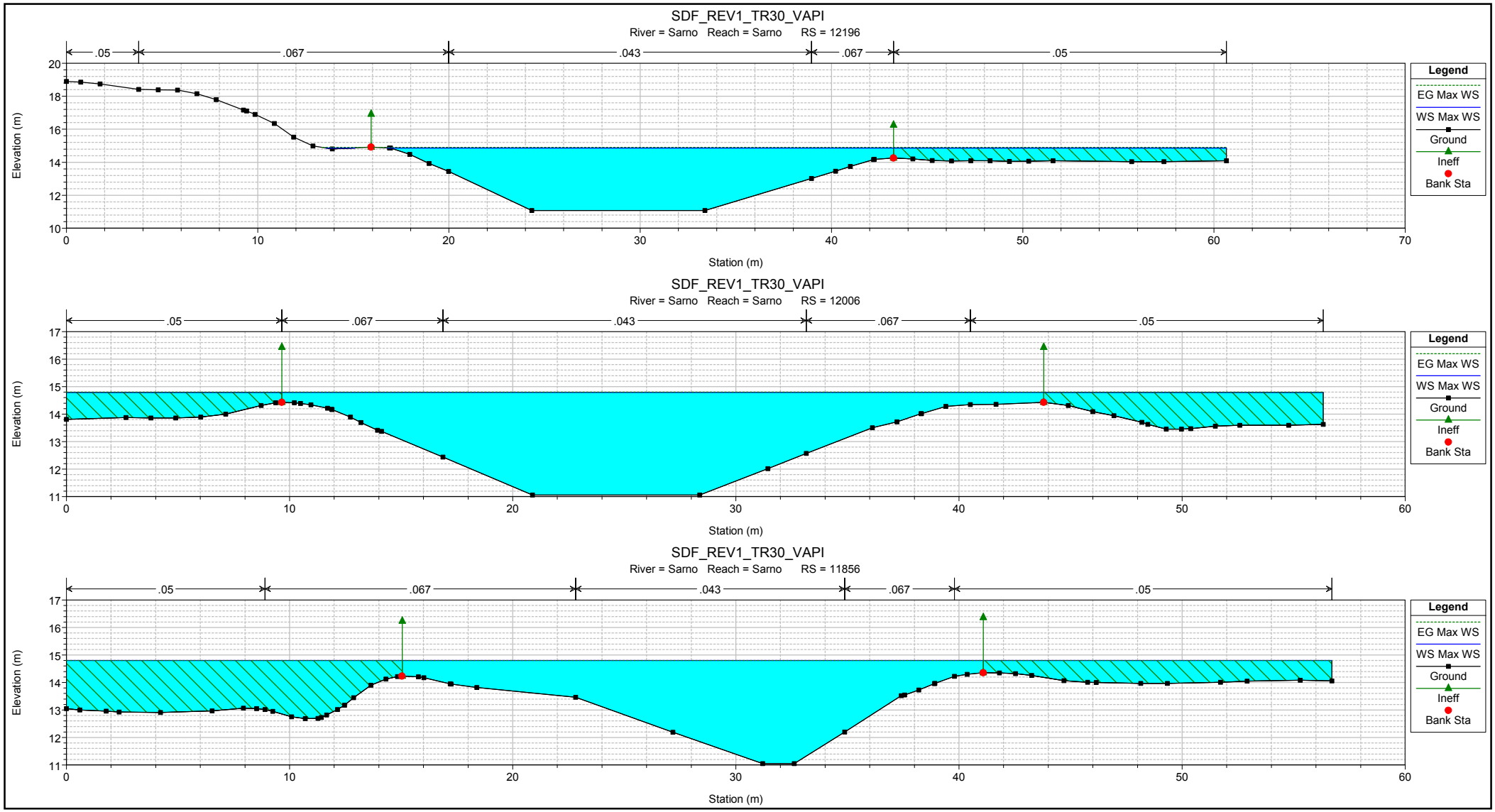

SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 4680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 4336
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 3680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

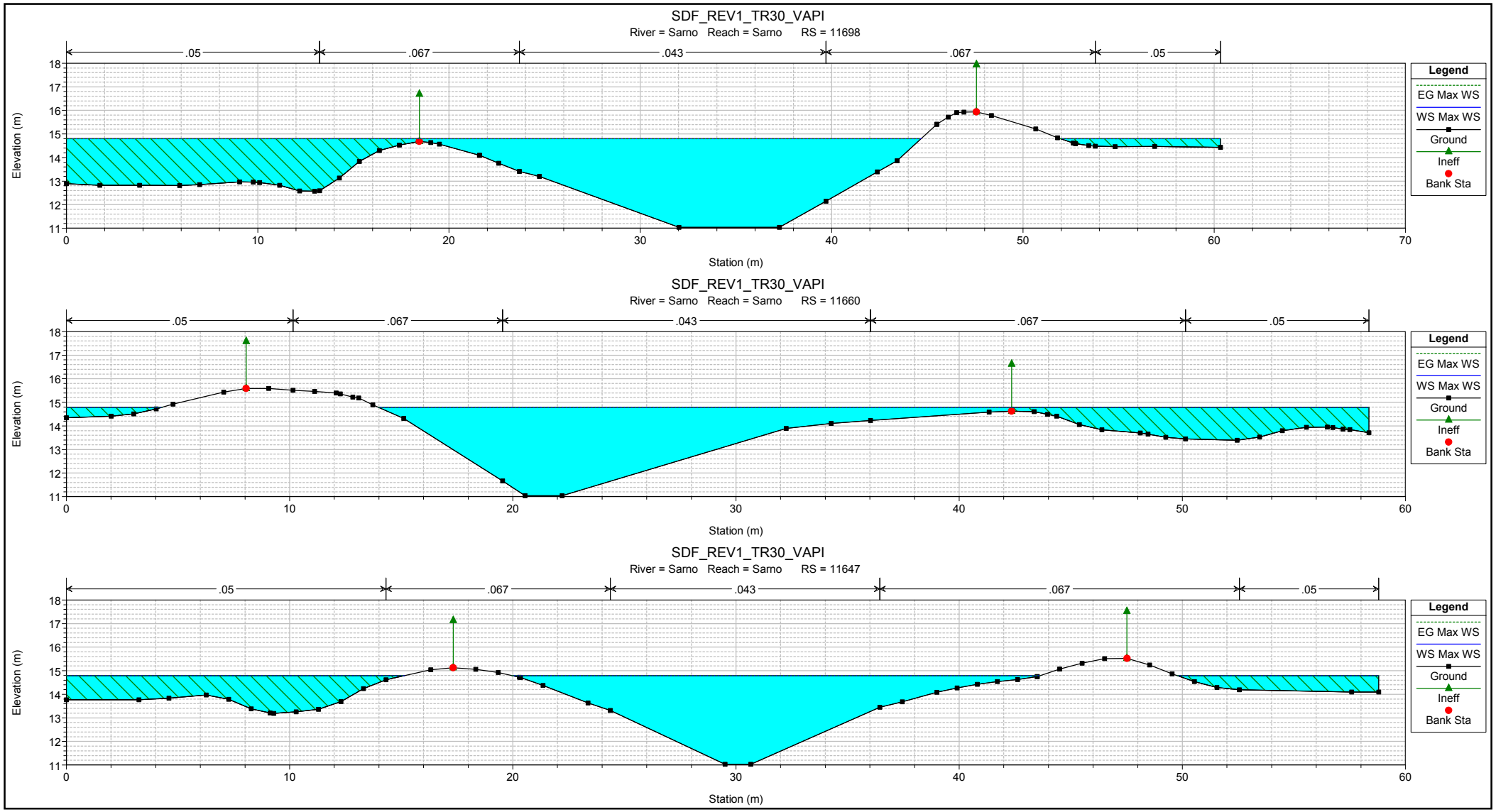

SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 3023
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 2368
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 1711
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

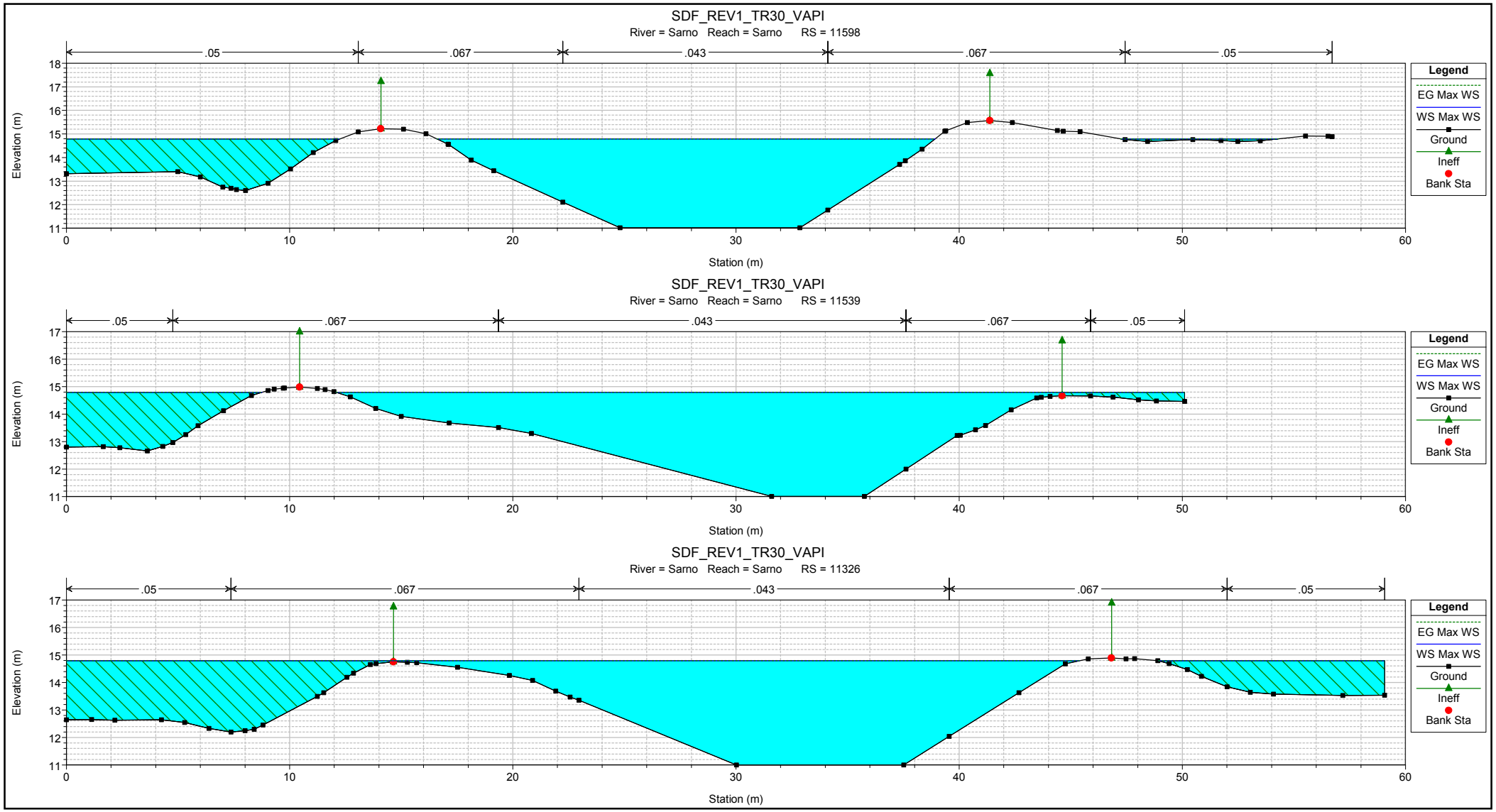

SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 1218
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 723
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 645
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

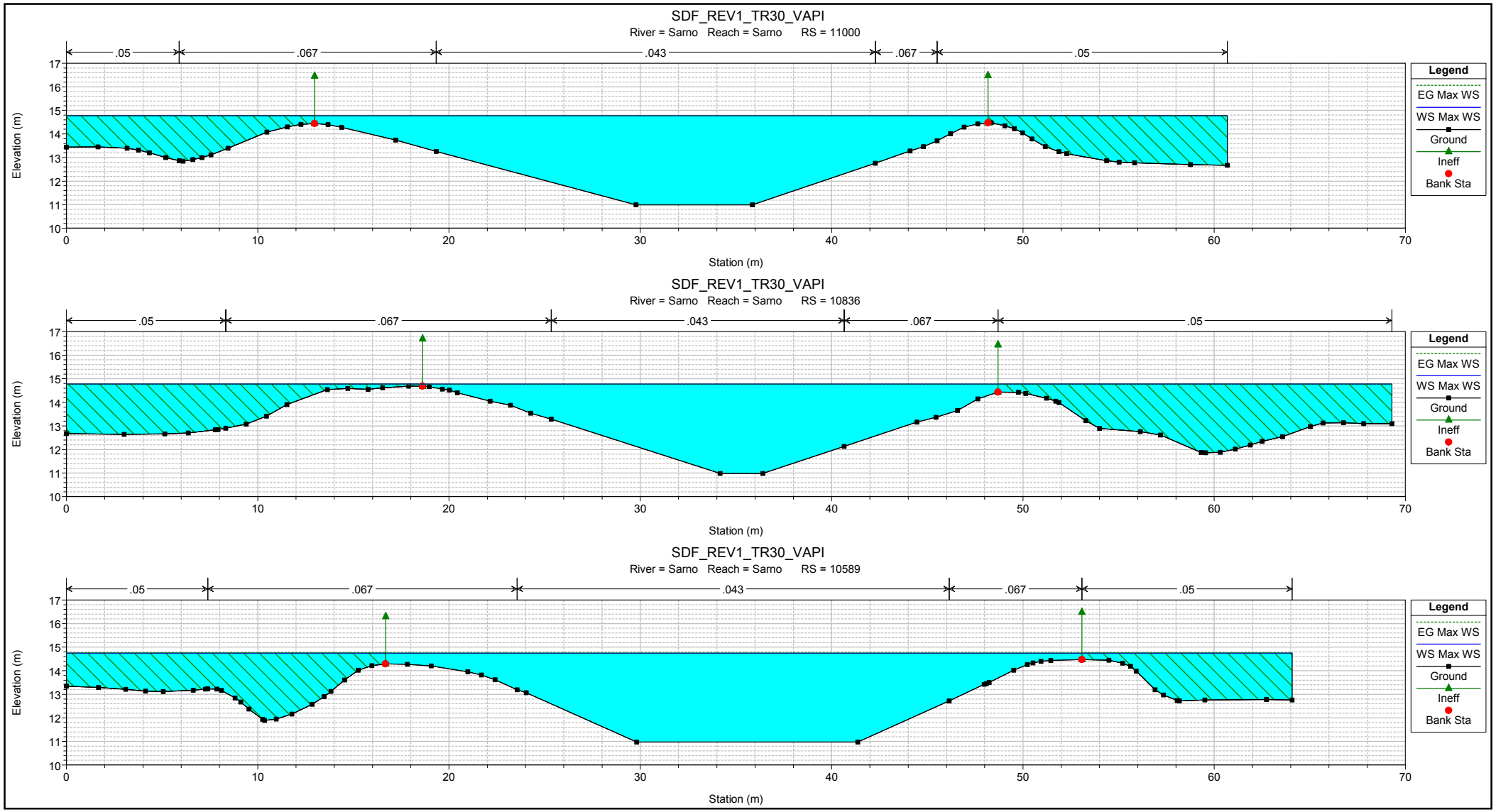

SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 605
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 527
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 227
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

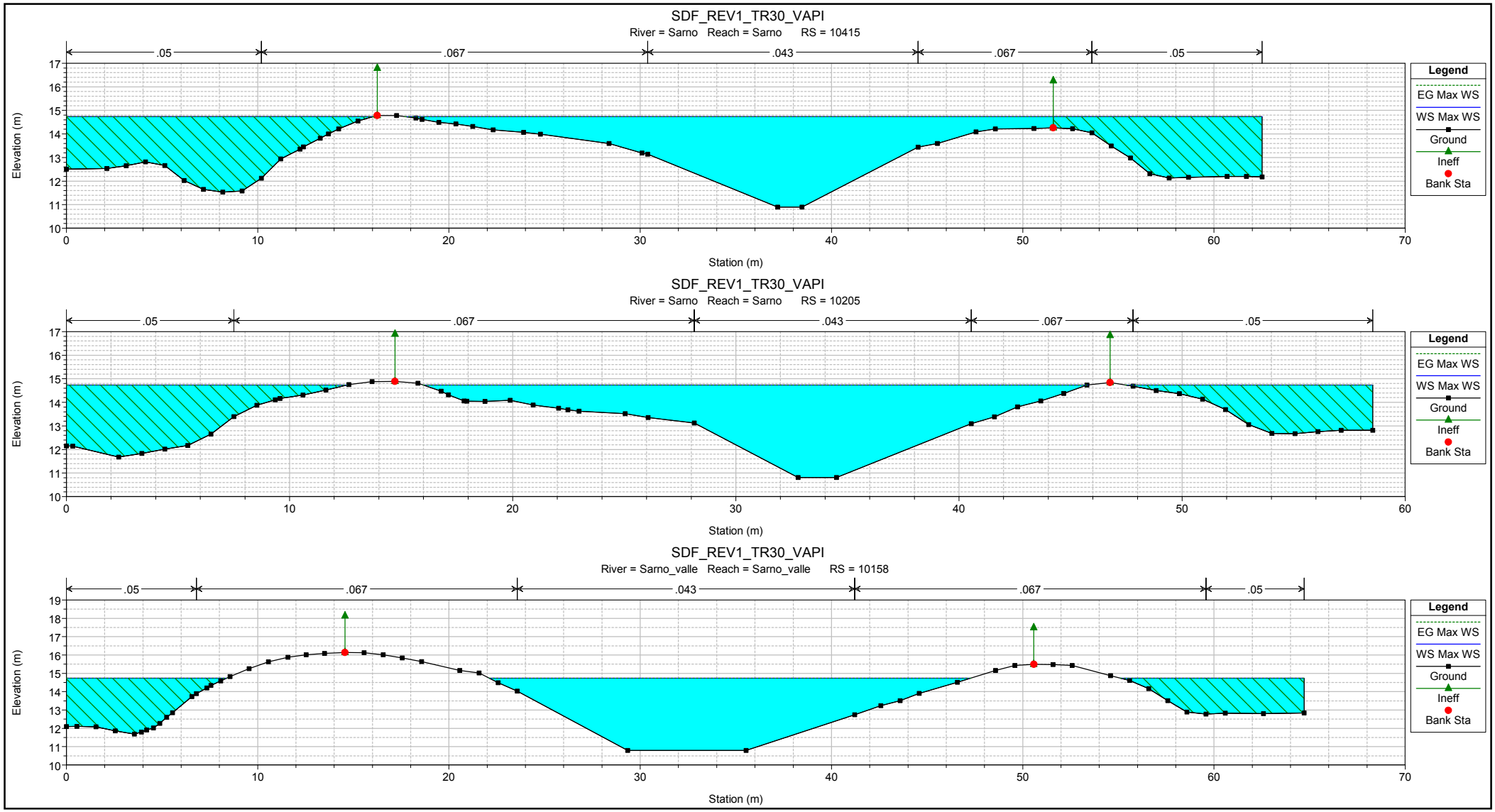

SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12874
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12610
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12325
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

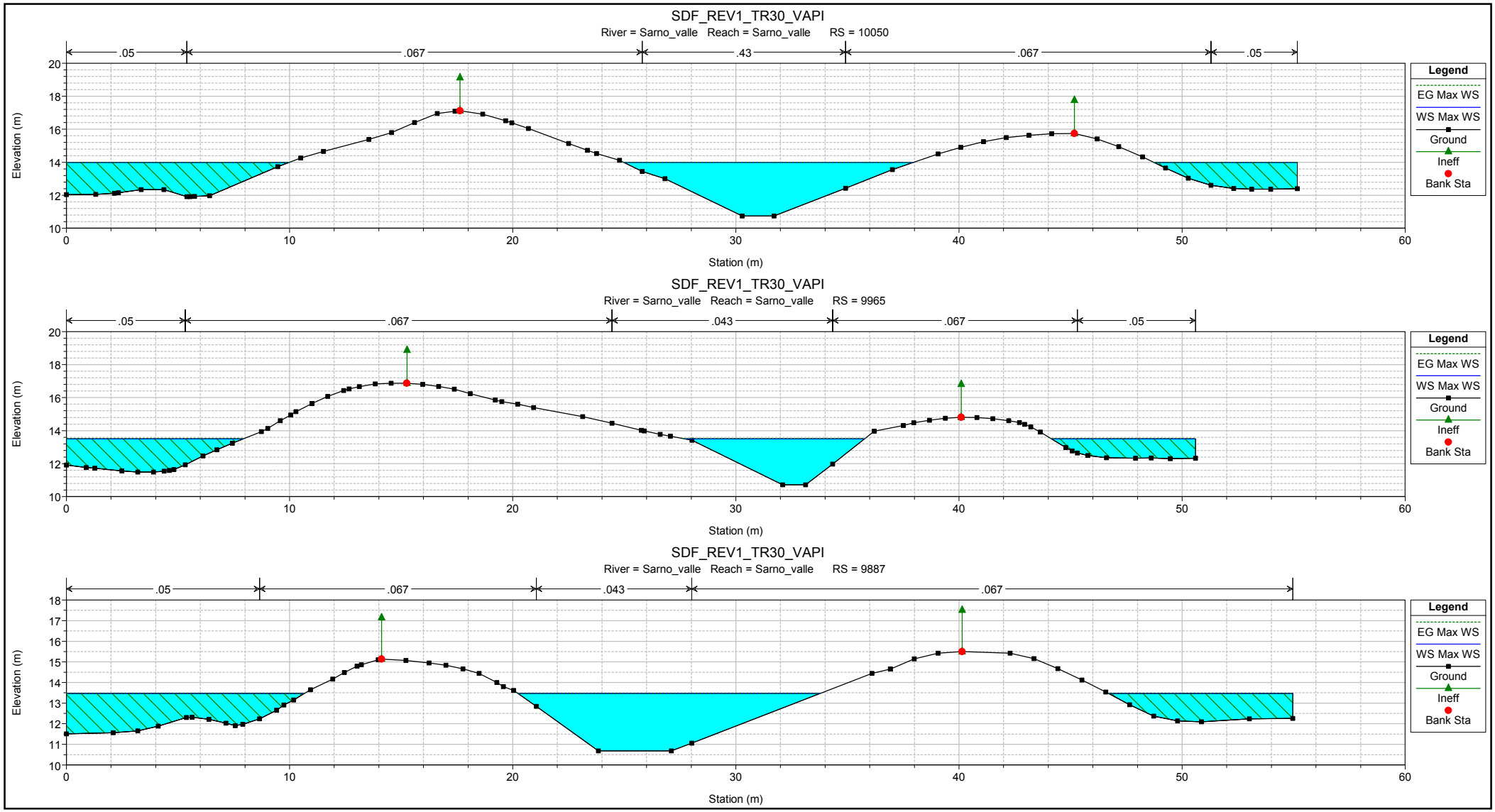

SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12196
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12006
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11856
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

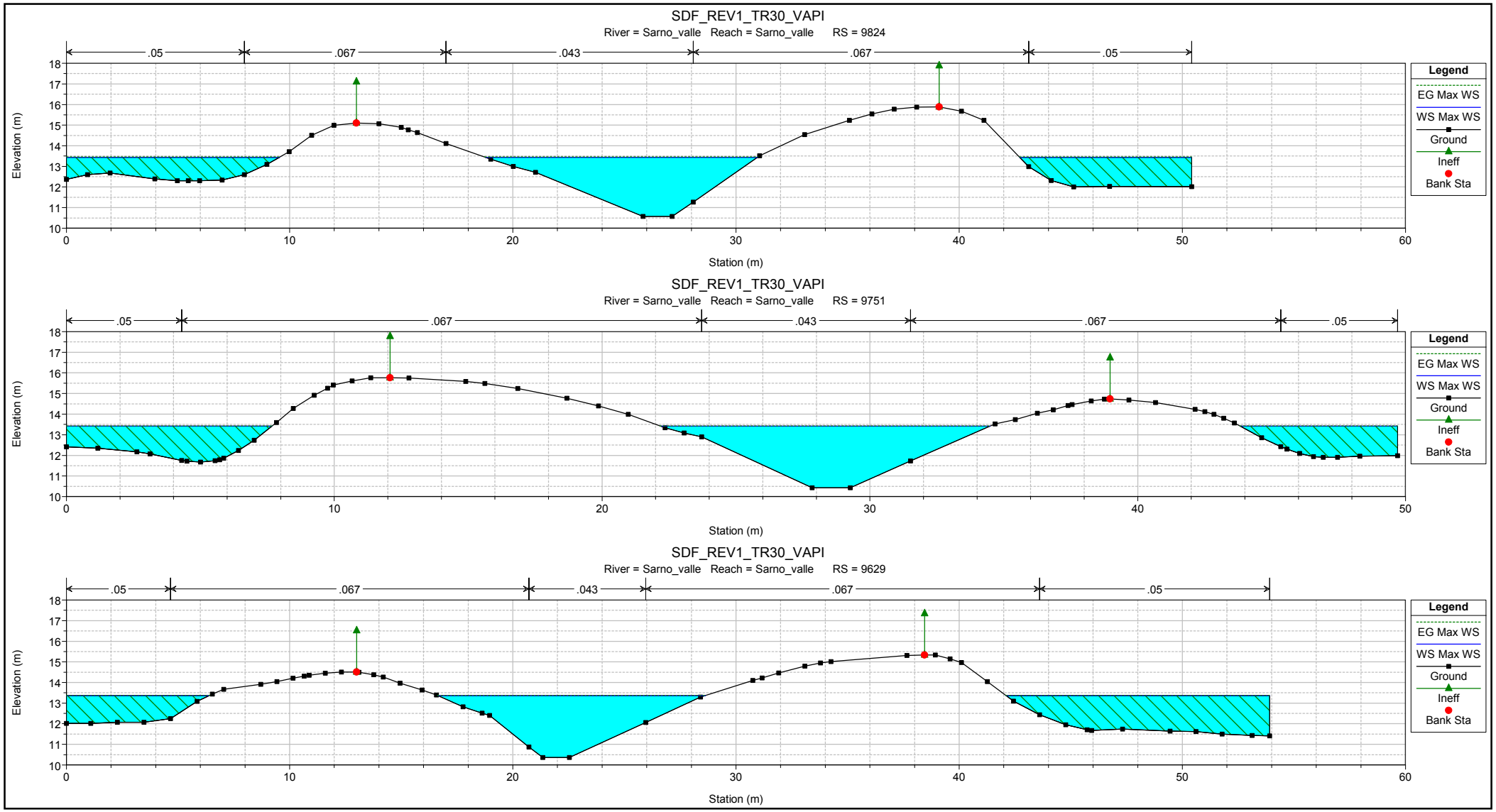

SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11698
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11660
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11647
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

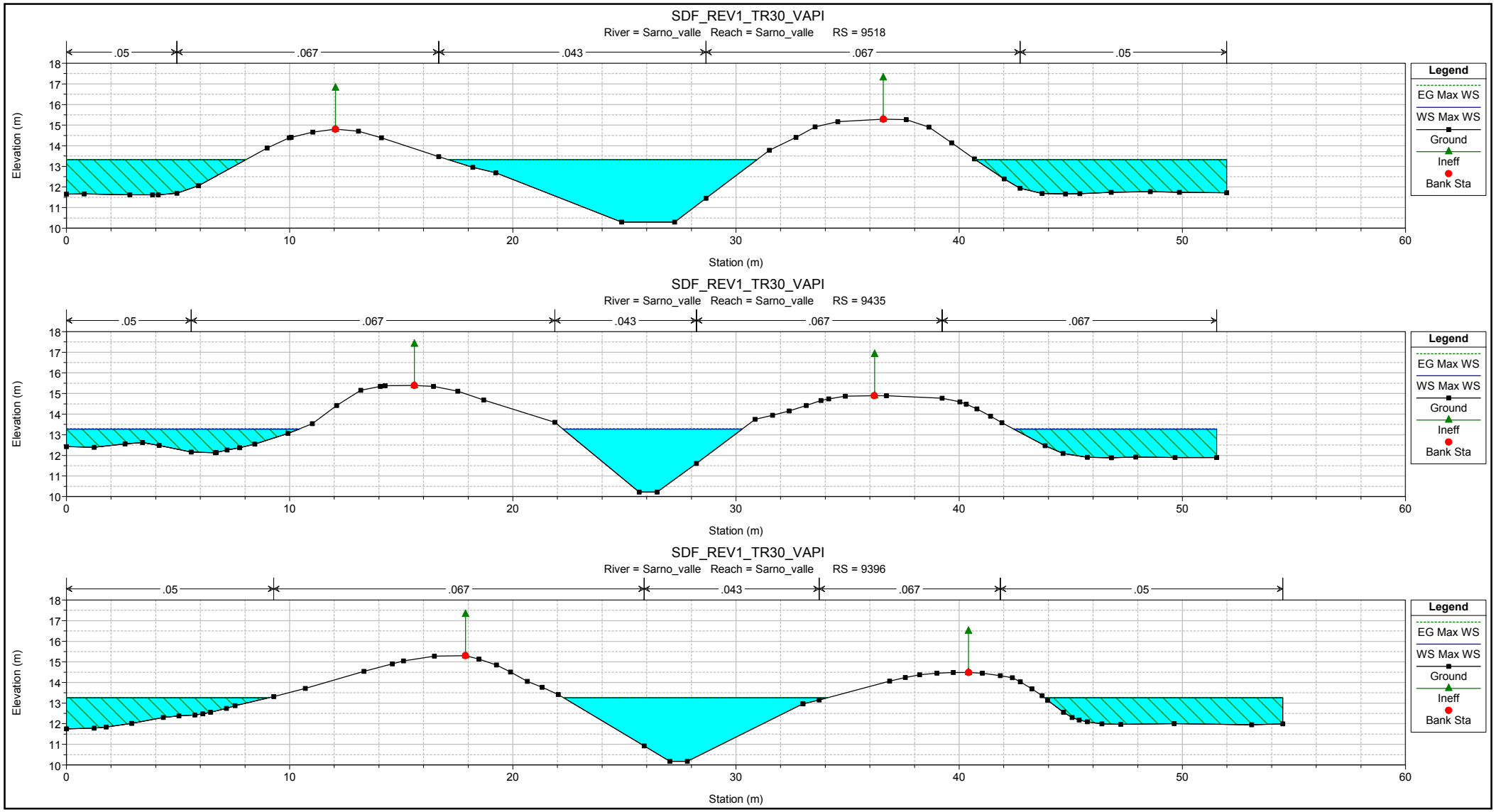

SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11598
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11539
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11326
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

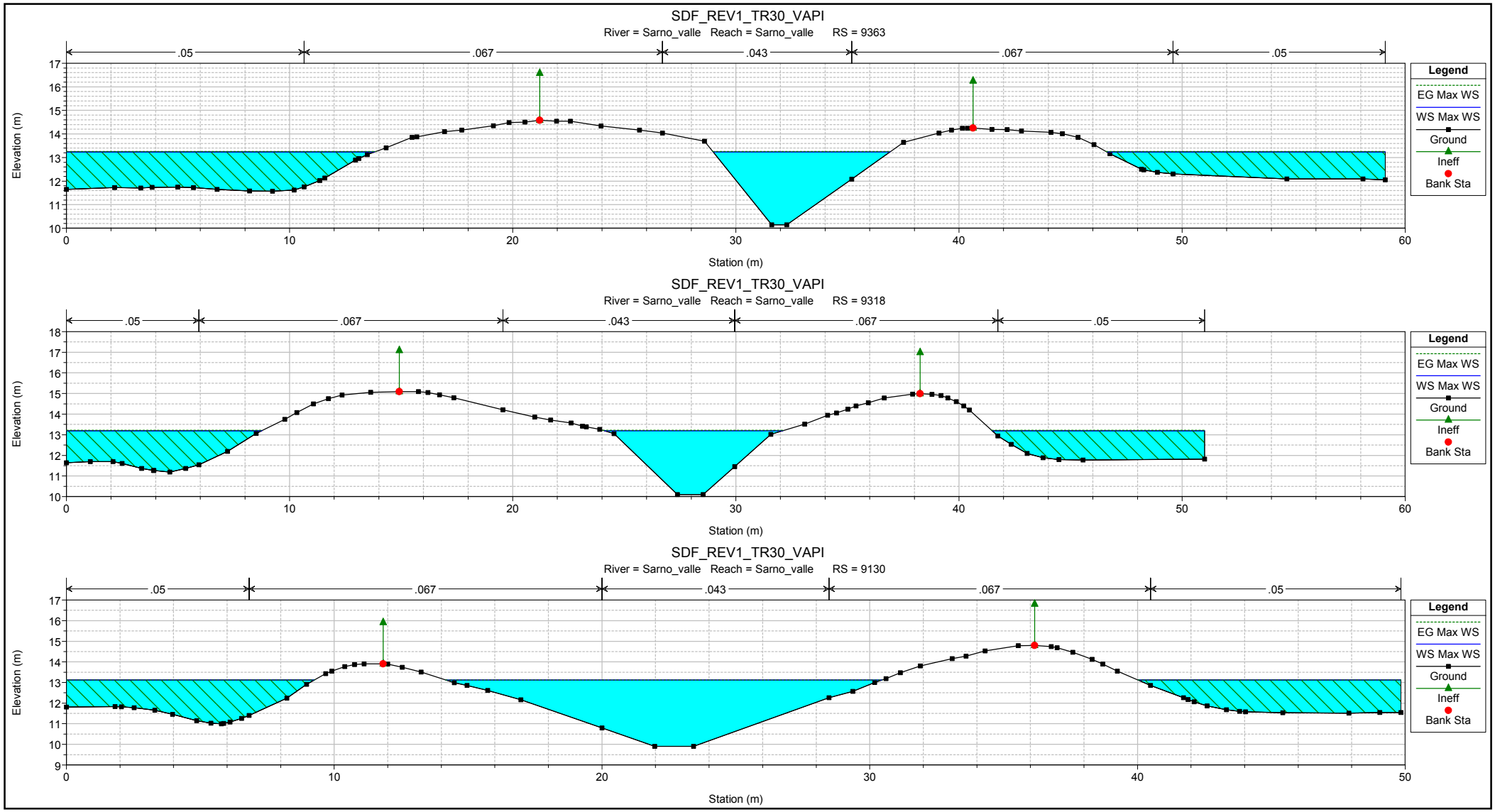

SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11000
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 10836
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 10589
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

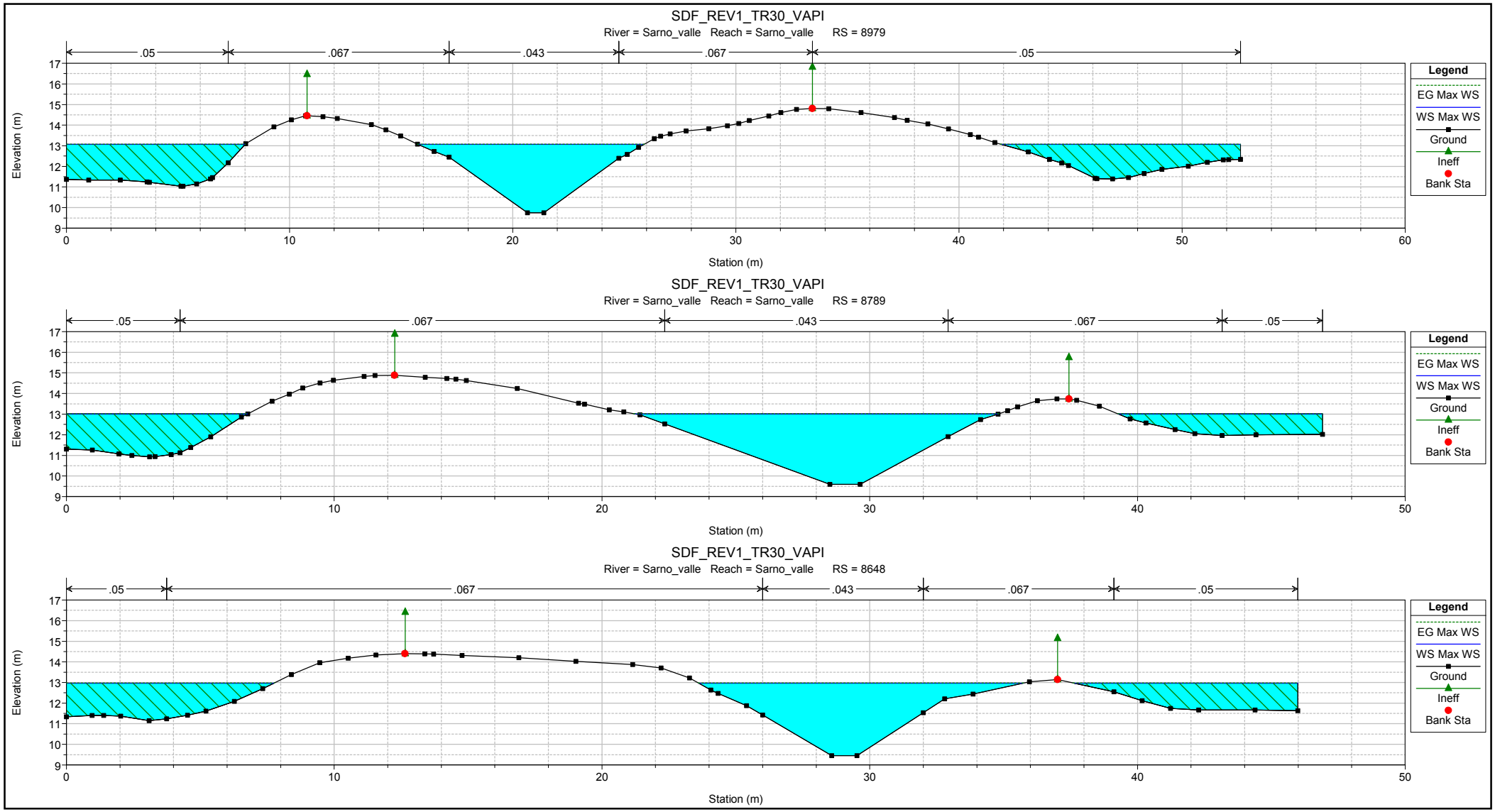

SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 10415
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 10205
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10158
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

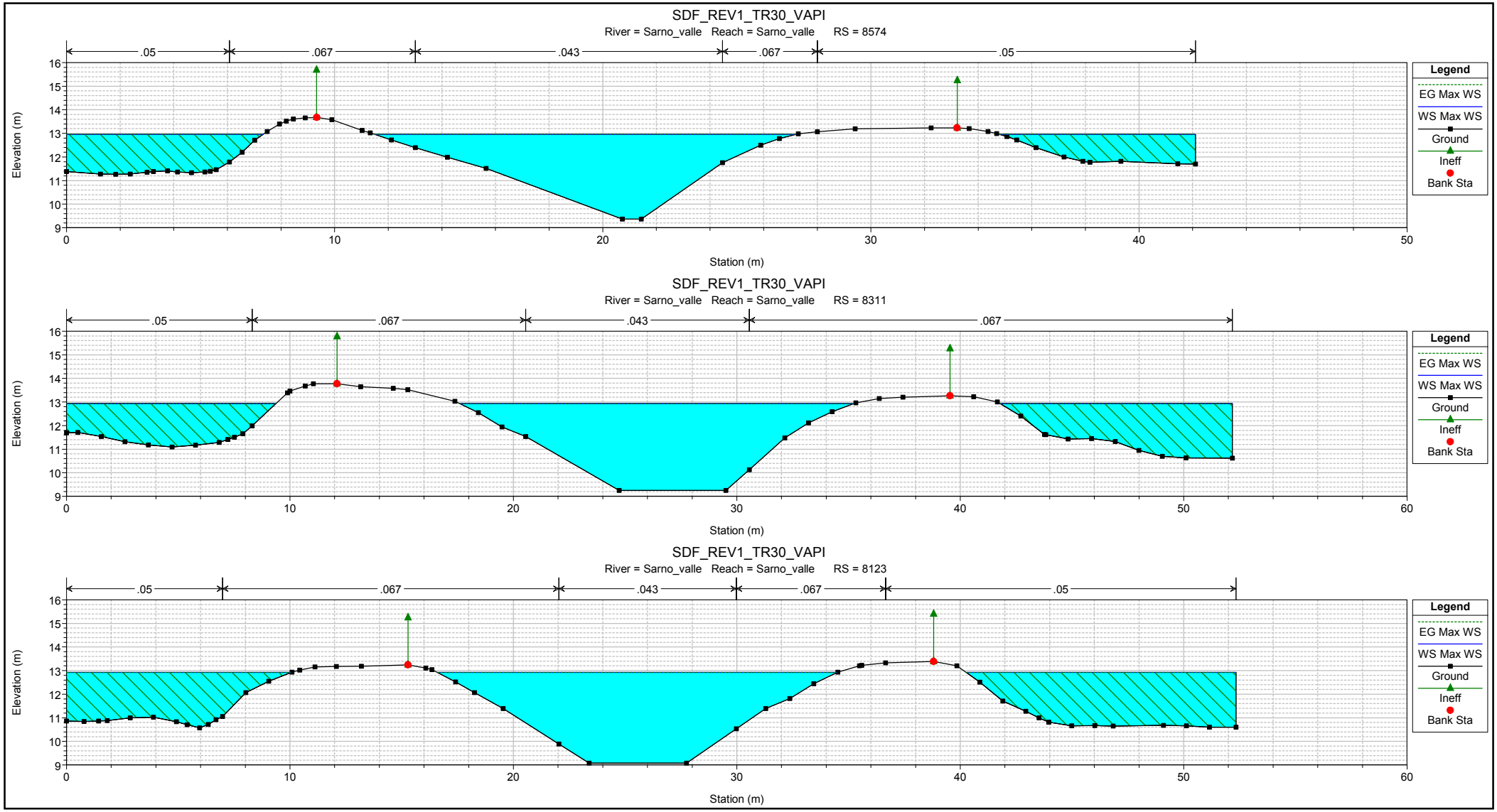

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10050
.05
.067
.43
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9965
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9887
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

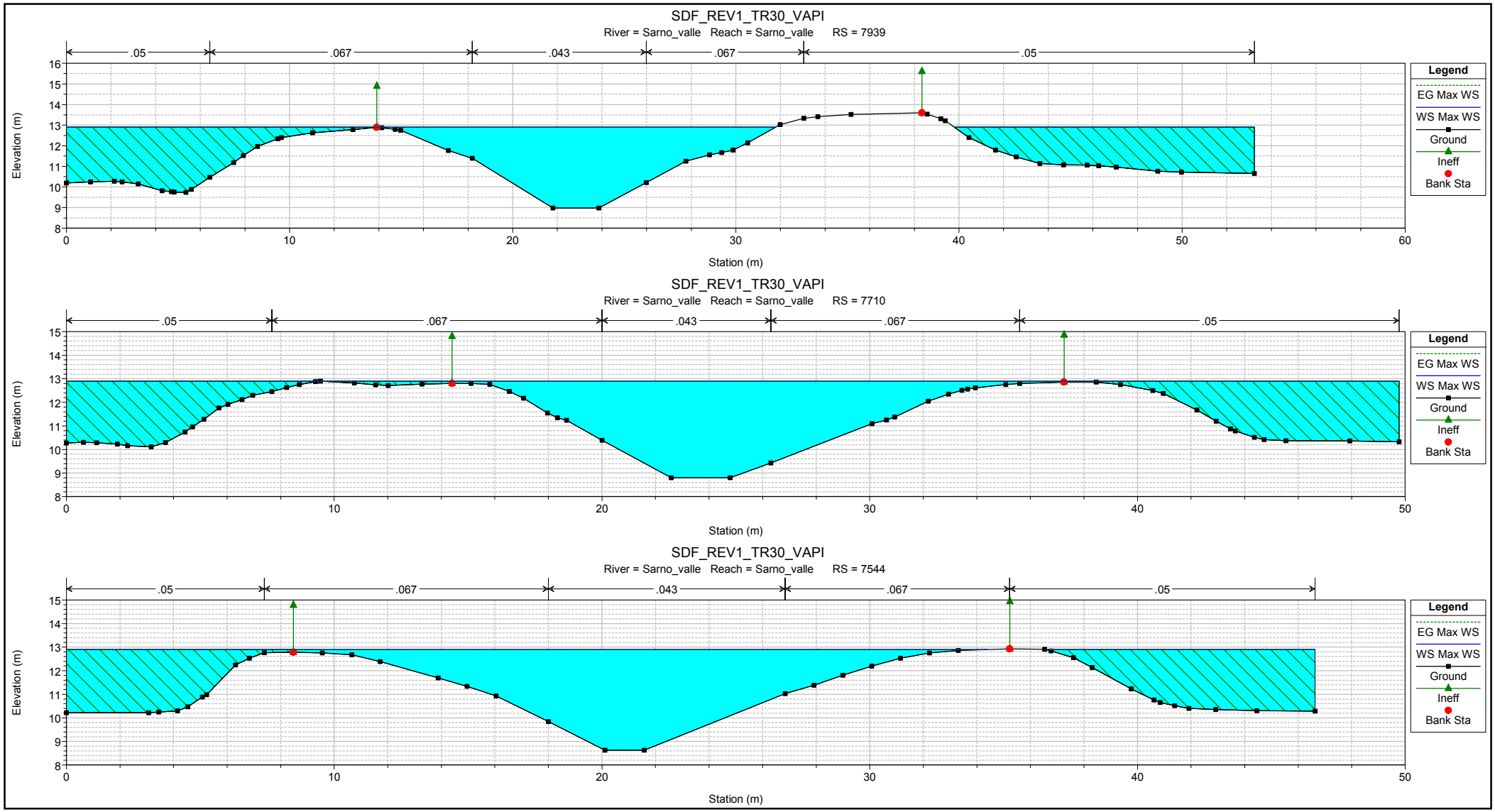

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9824
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9629
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

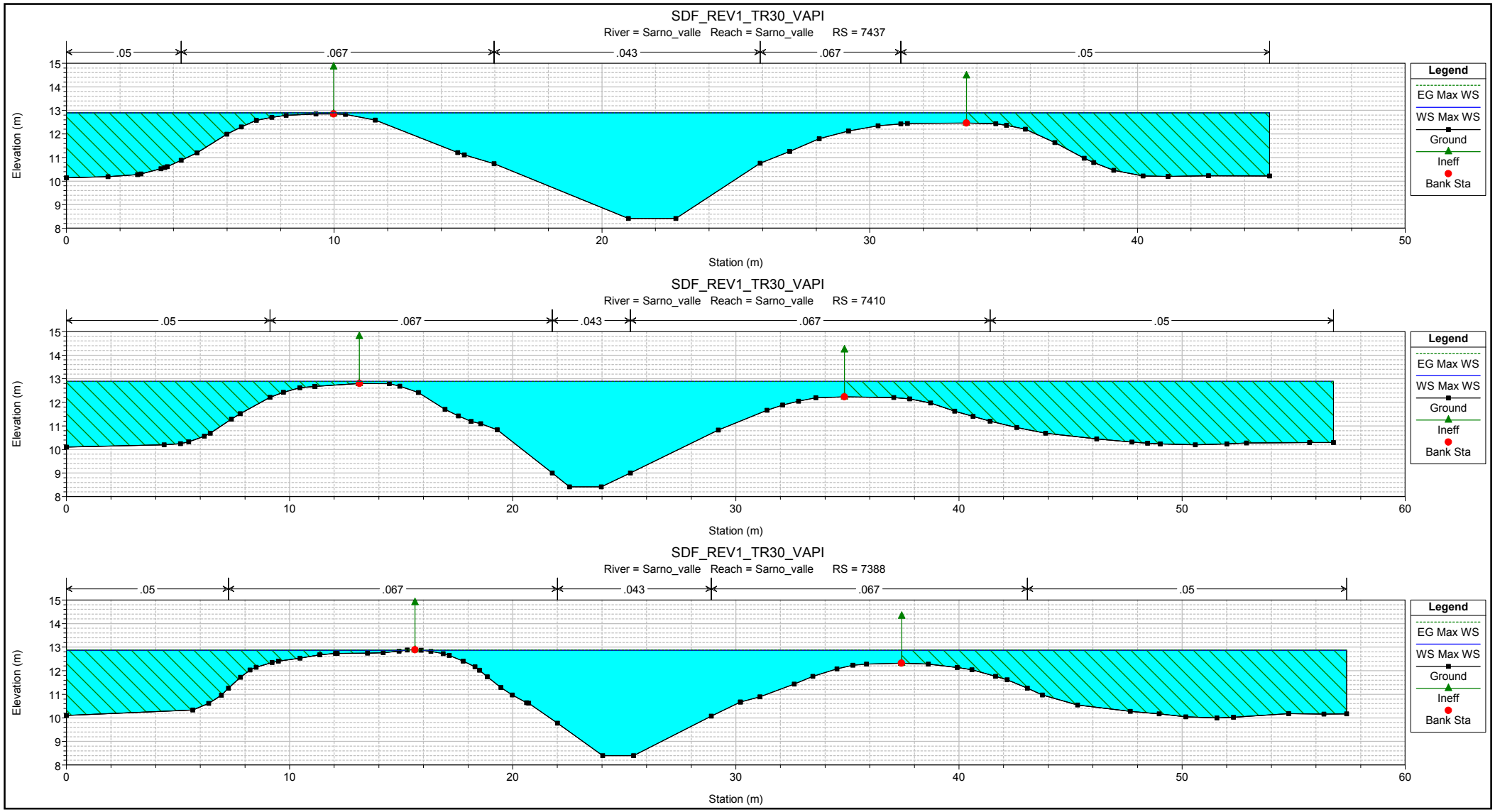

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9518
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9435
.05
.067
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9396
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

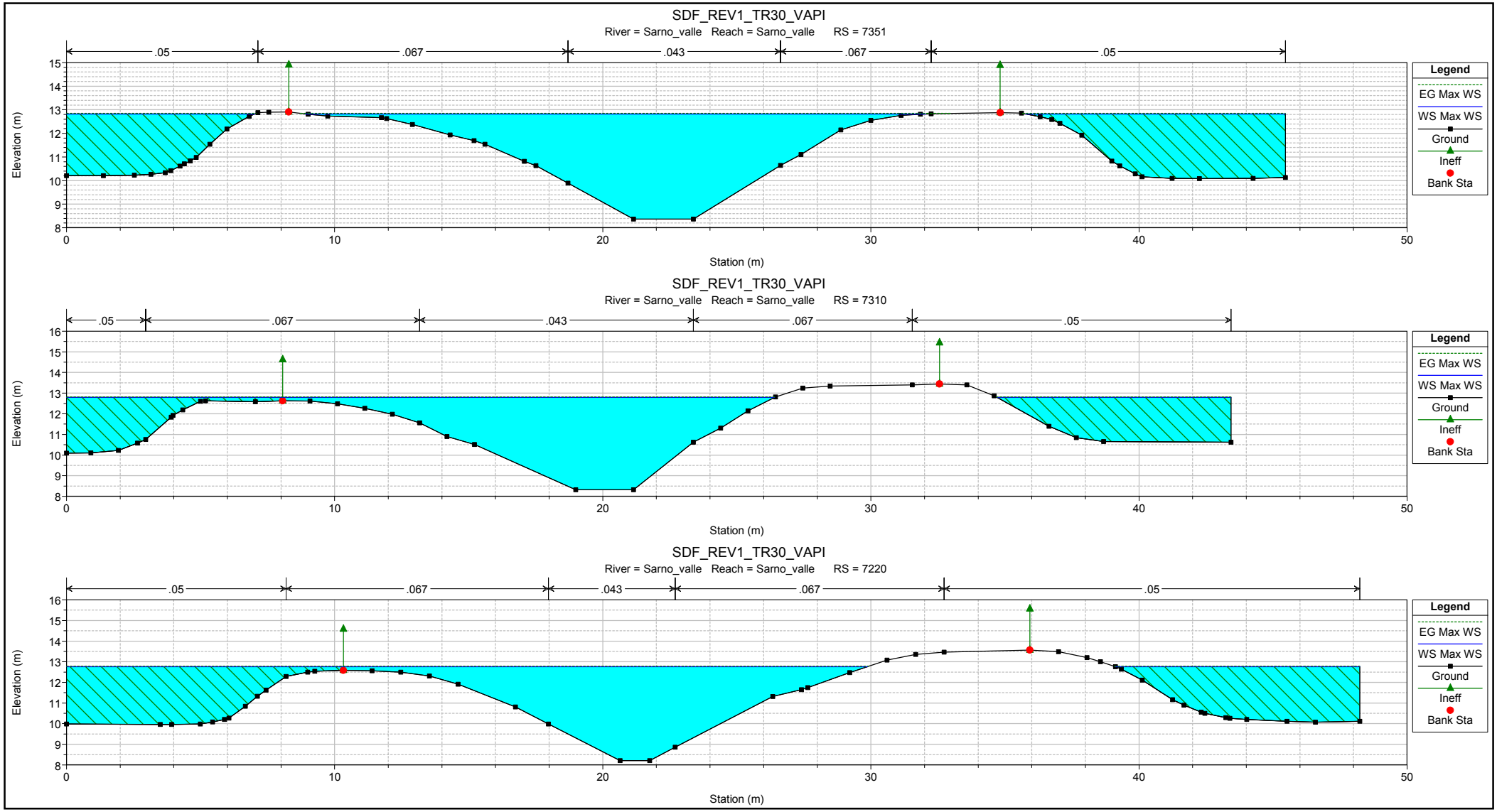

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9363
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9318
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9130
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

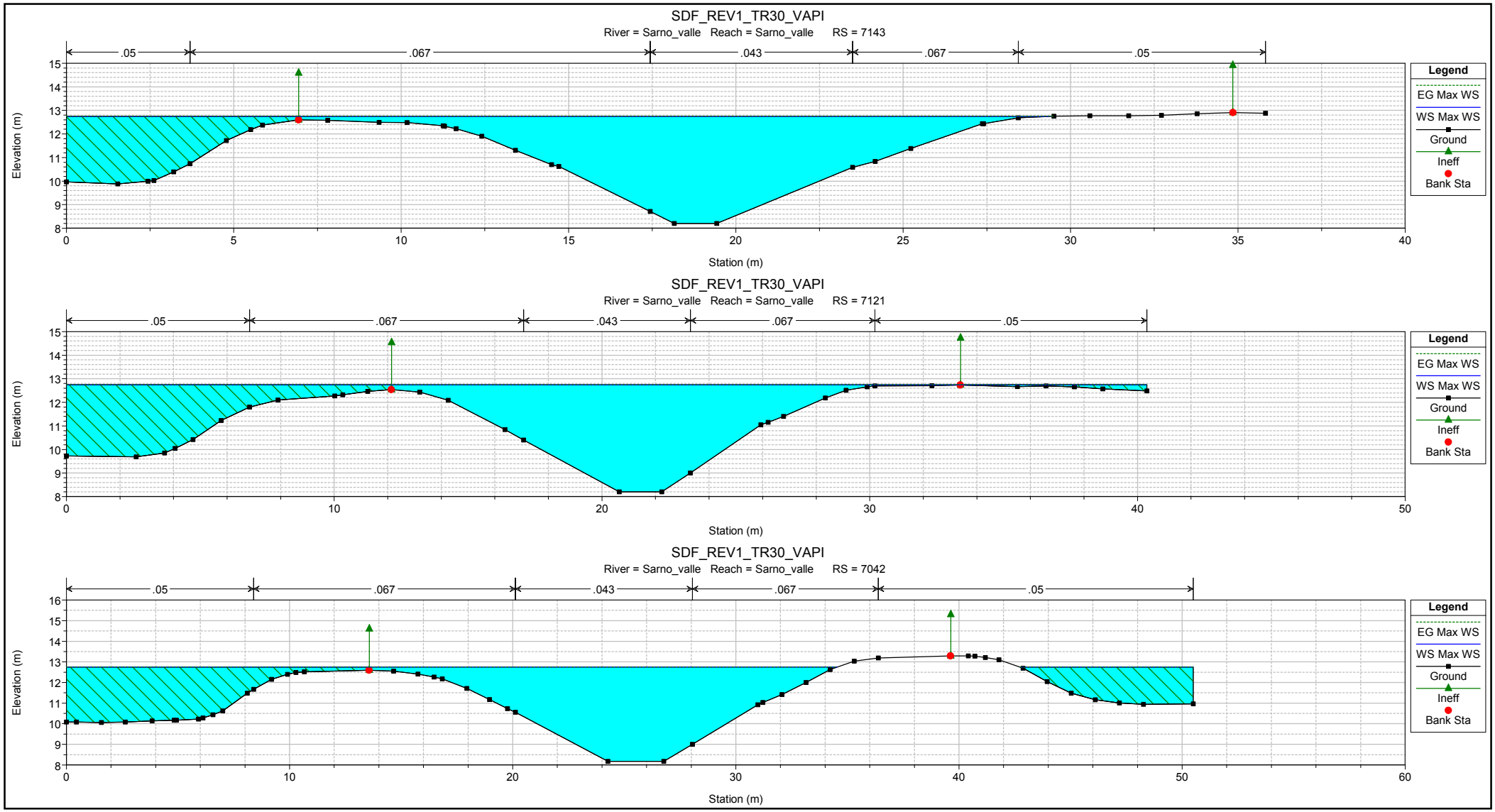

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8979
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8789
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8648
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

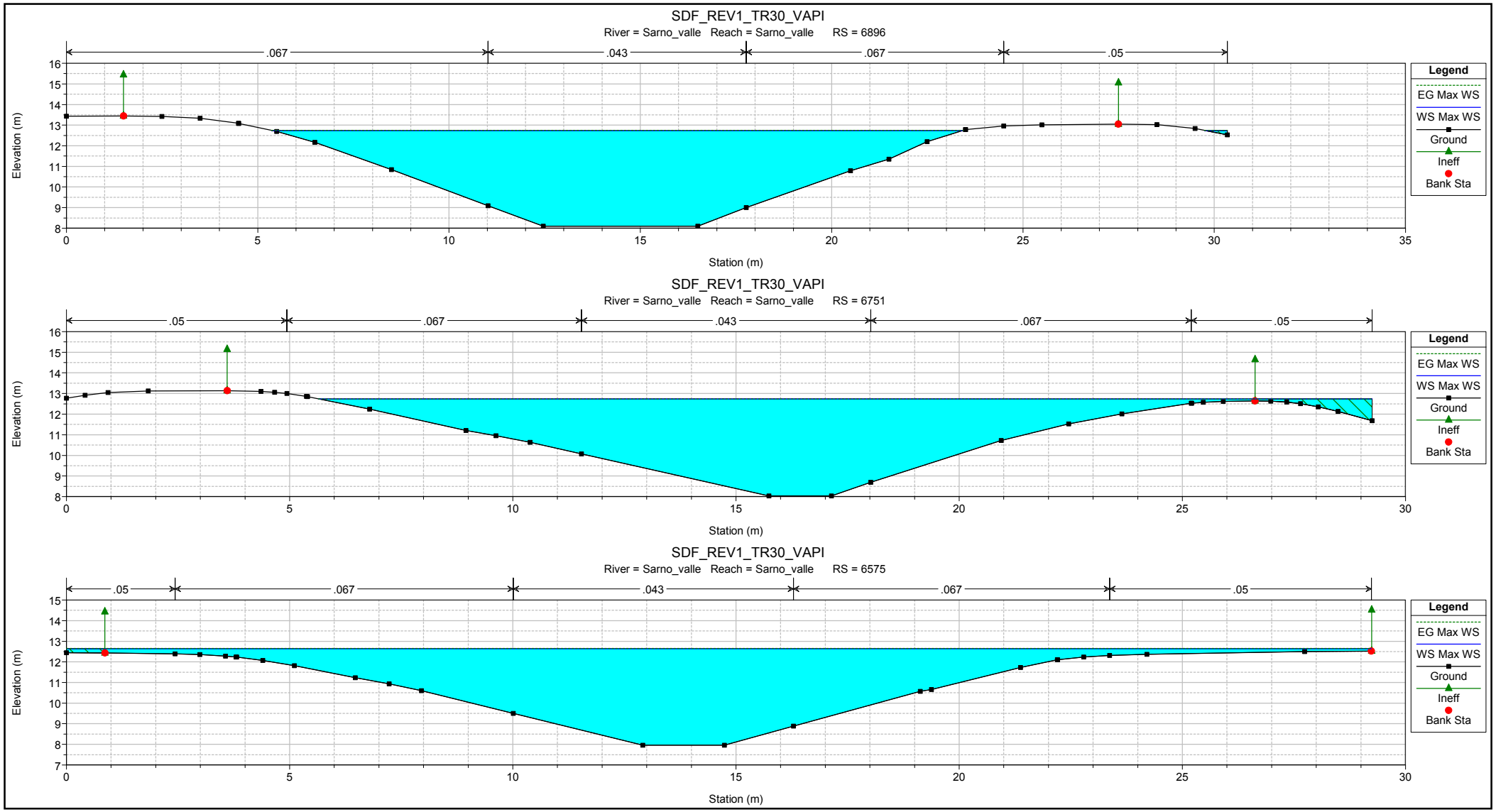

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8574
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8311
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8123
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

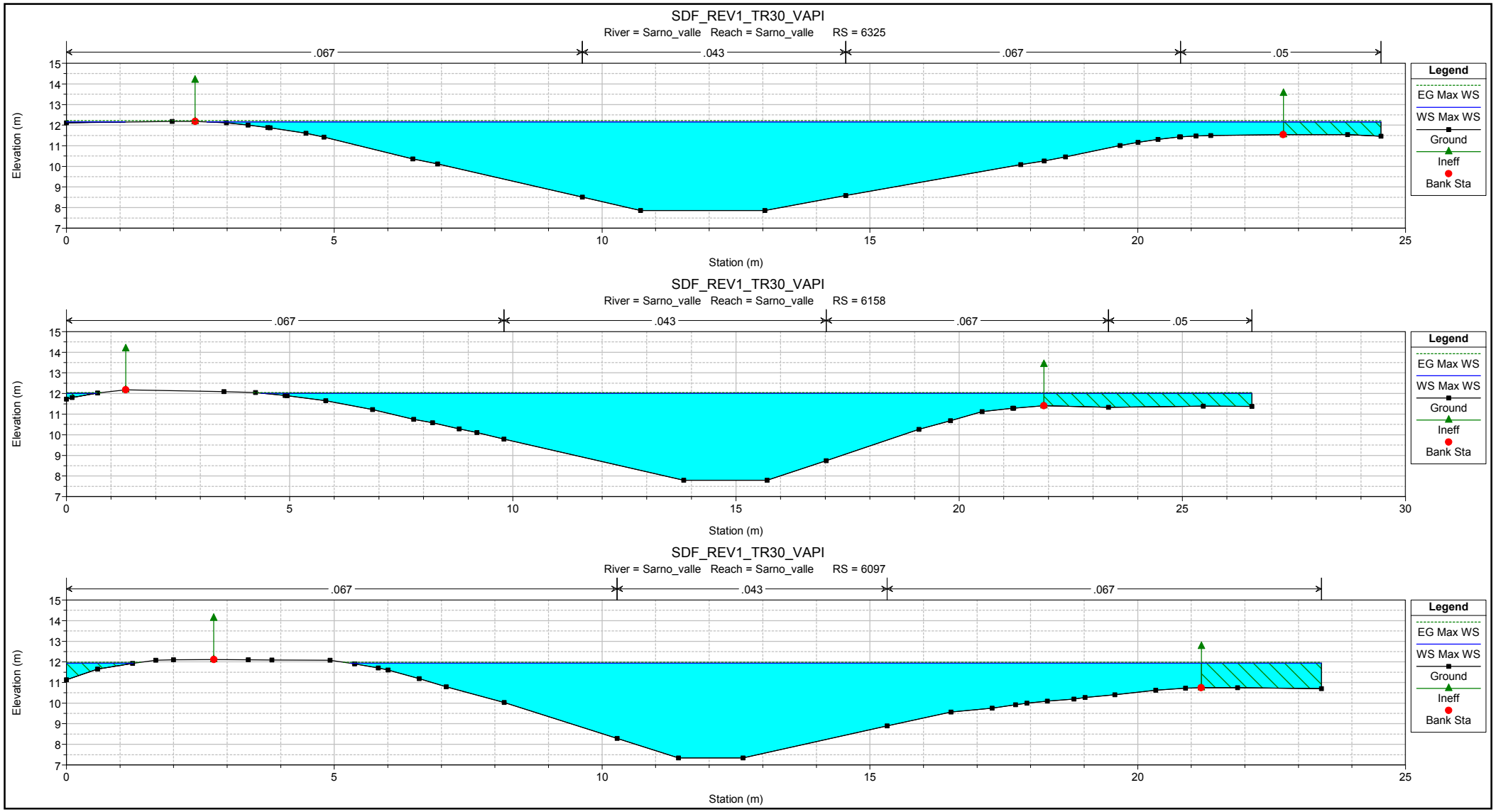

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7939
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7710
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7544
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

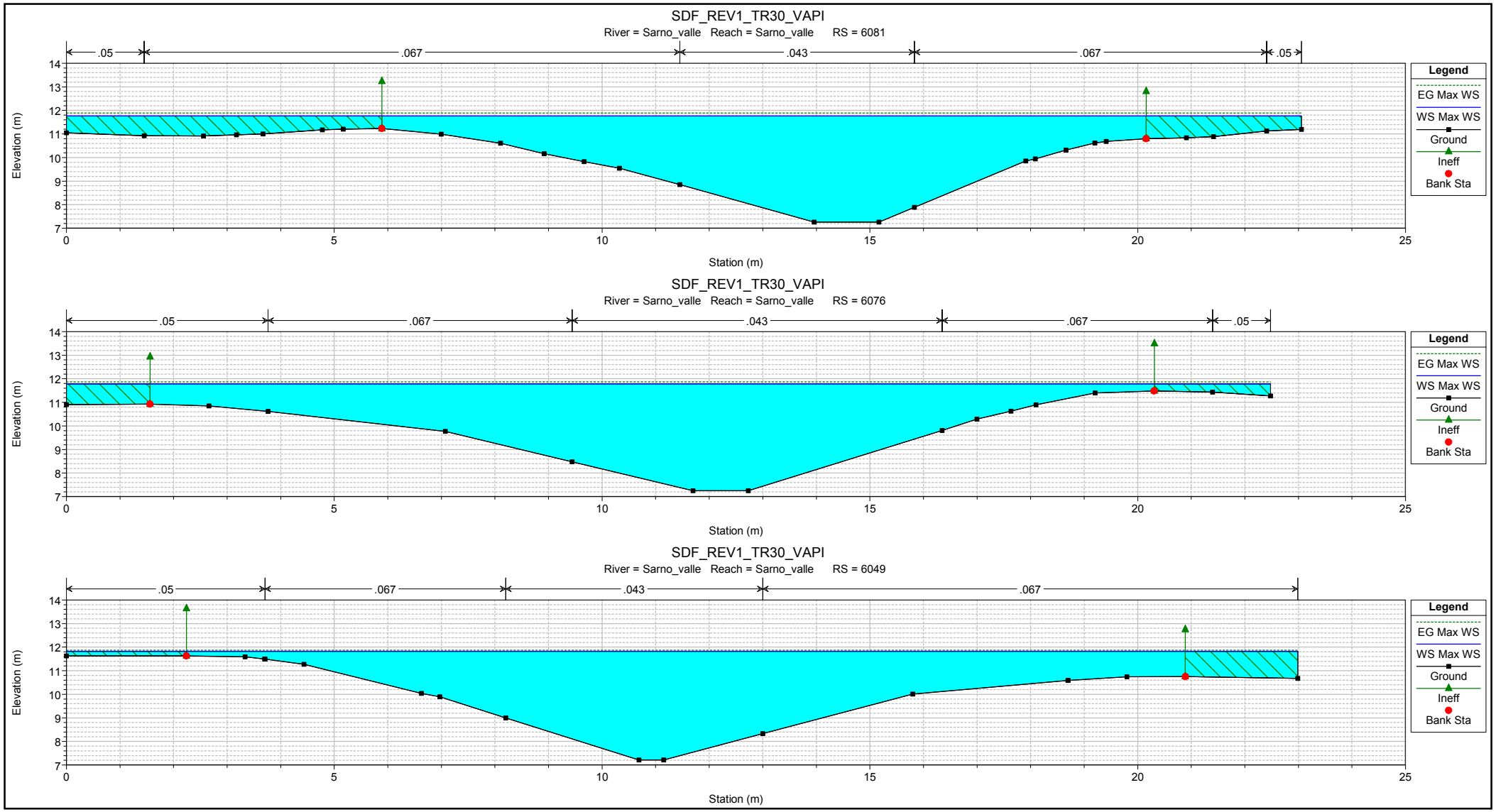

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7410
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7388
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

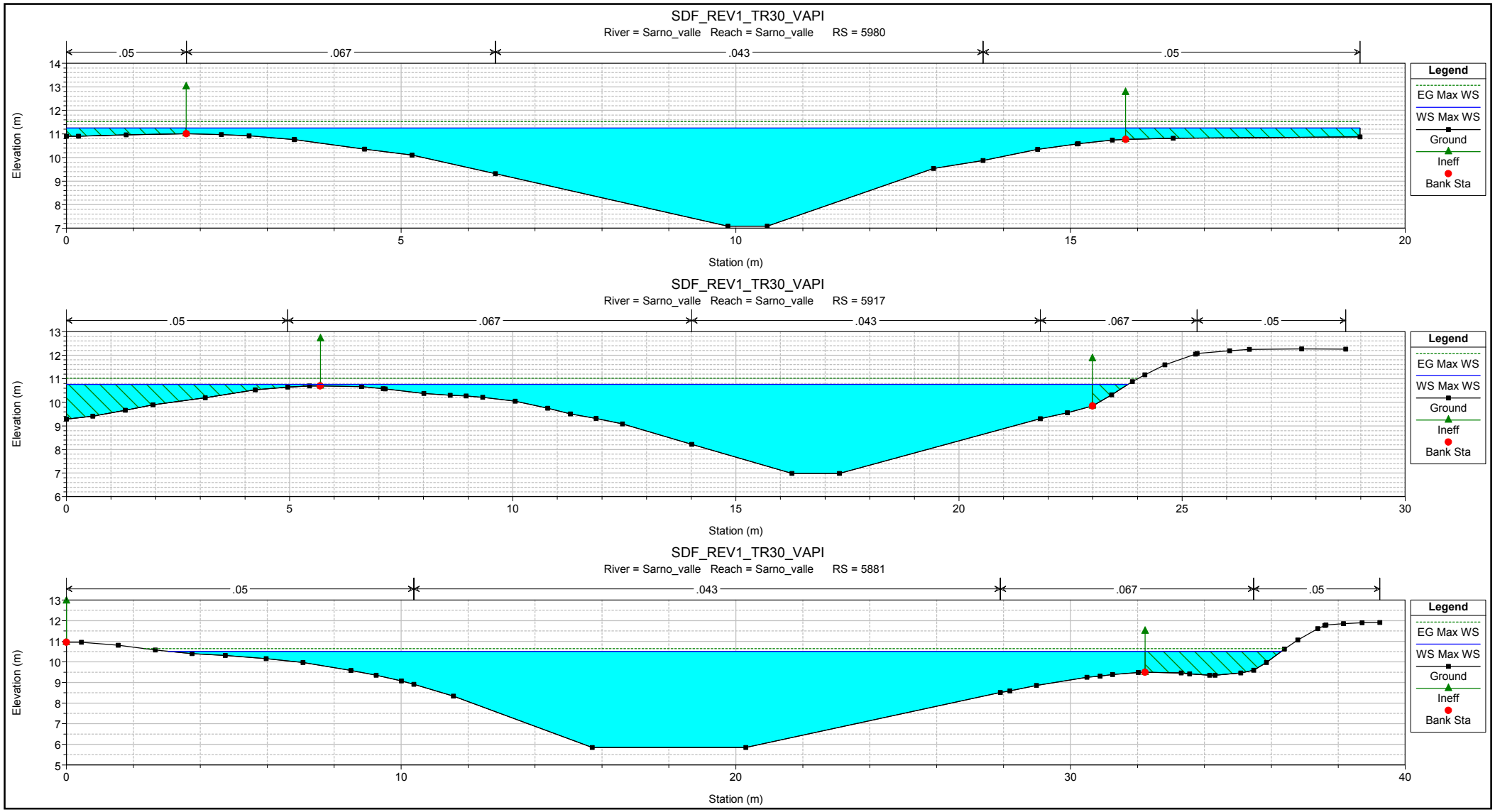

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7310
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

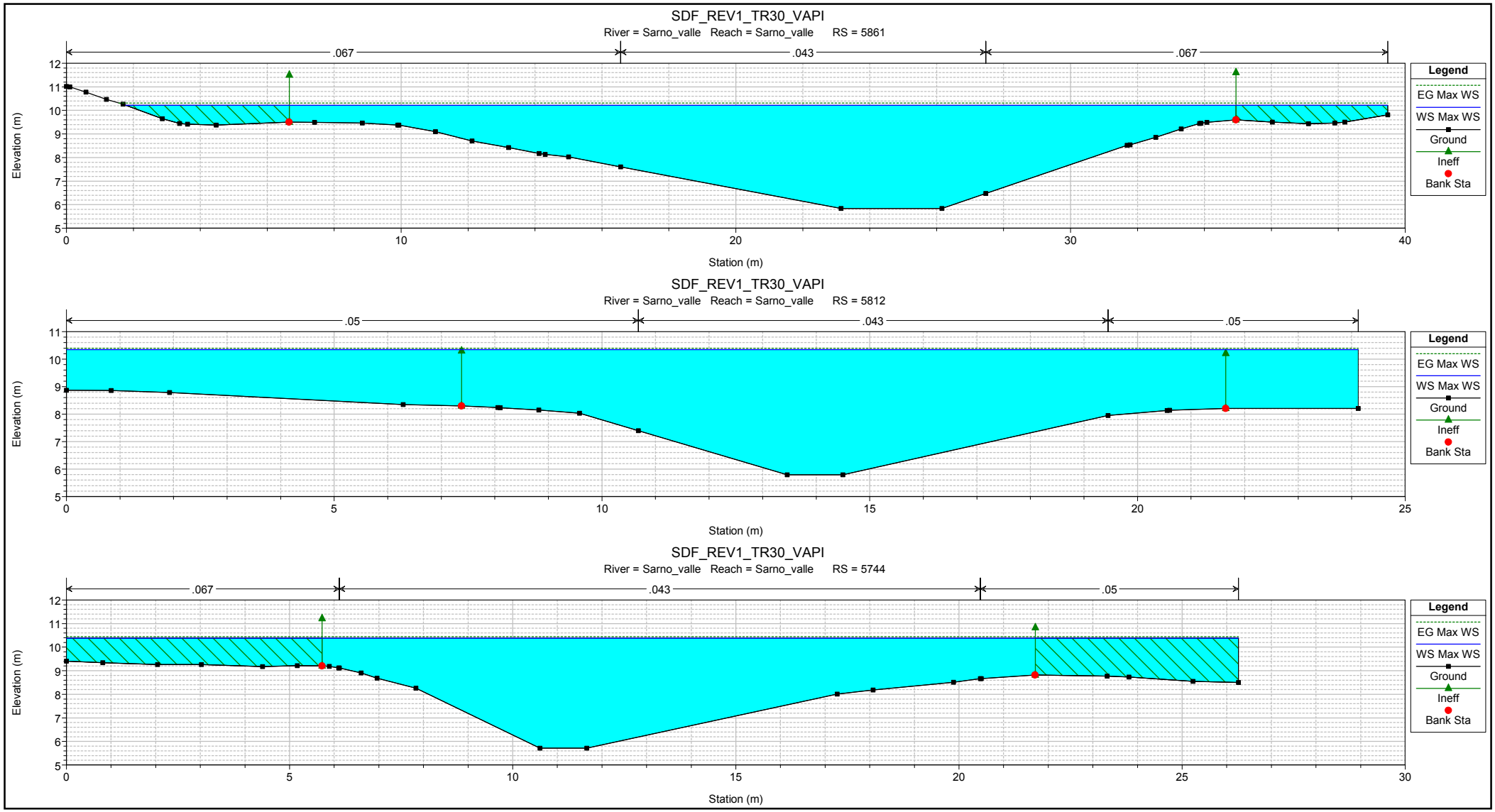

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7143
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7121
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7042
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

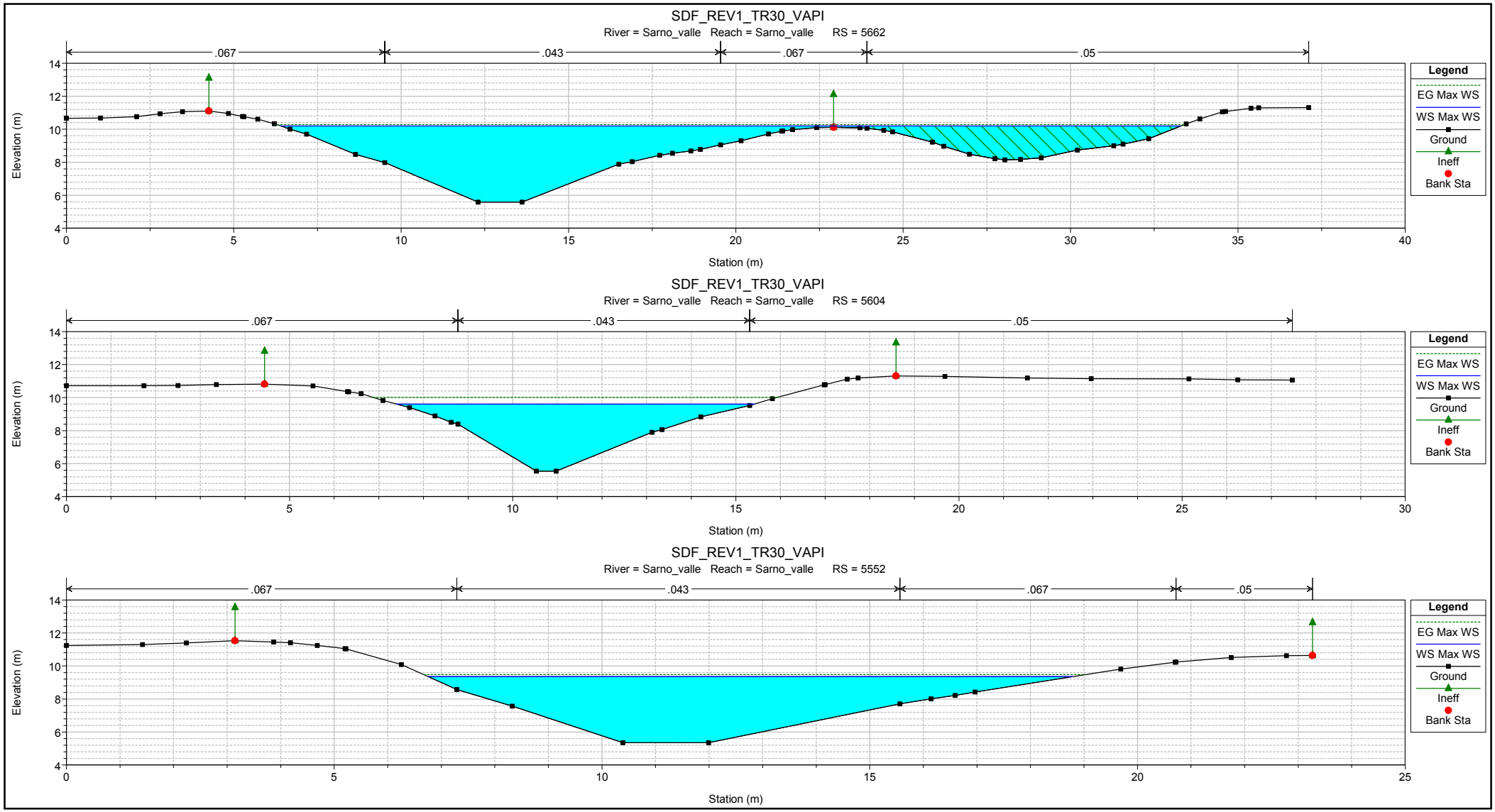

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6896
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6575
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

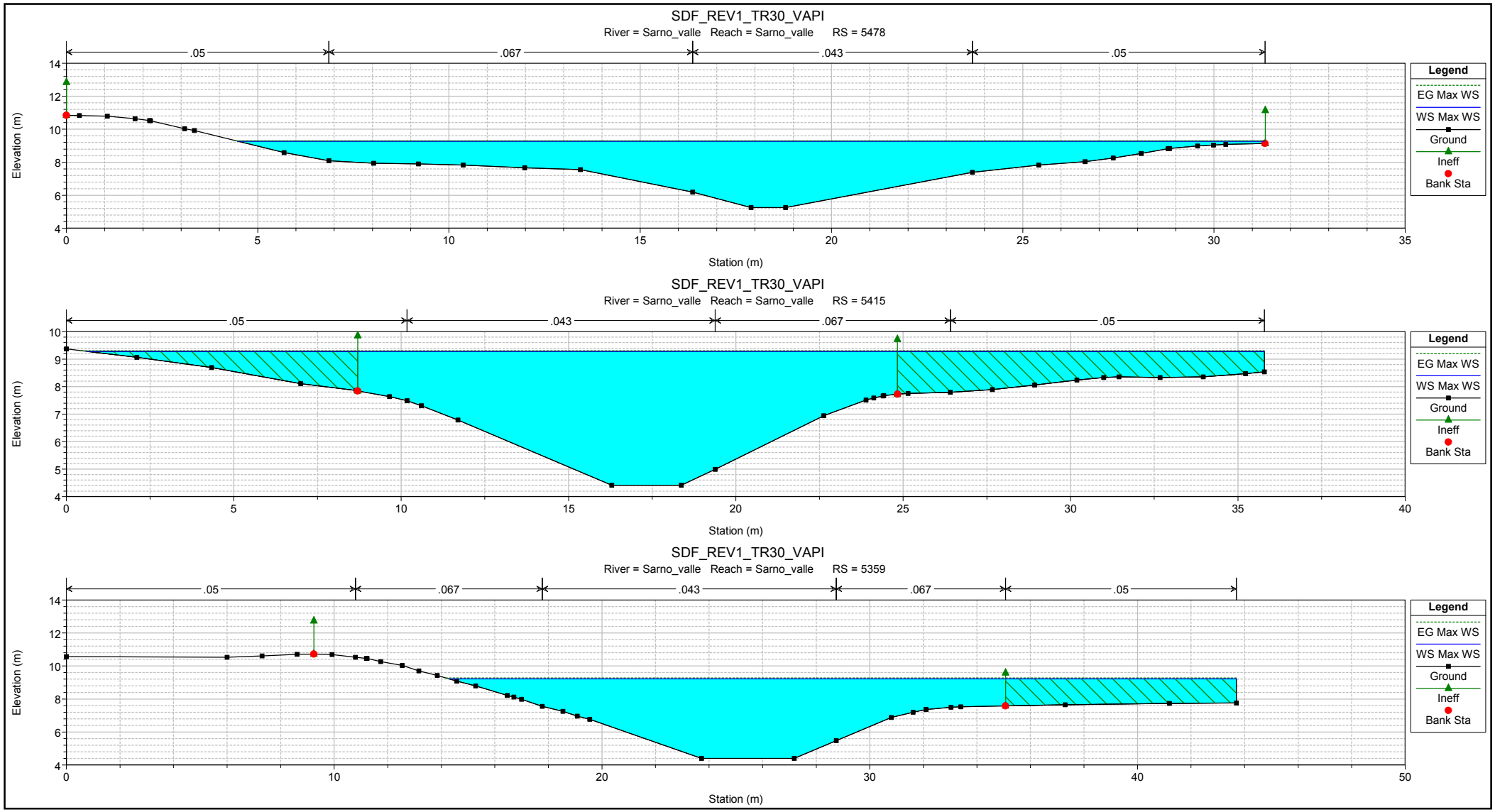

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6325
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6158
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6097
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

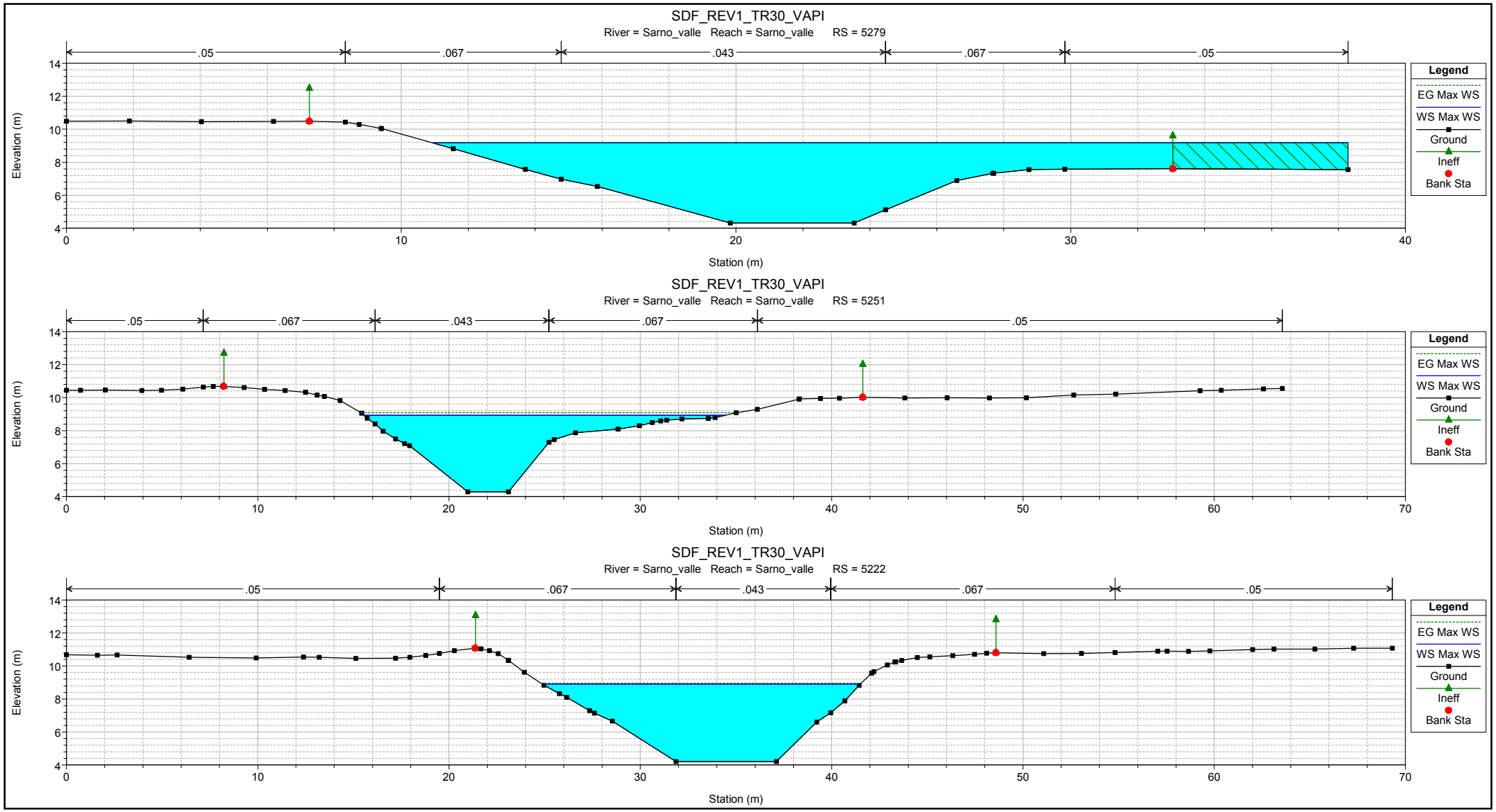

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6081
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6076
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6049
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

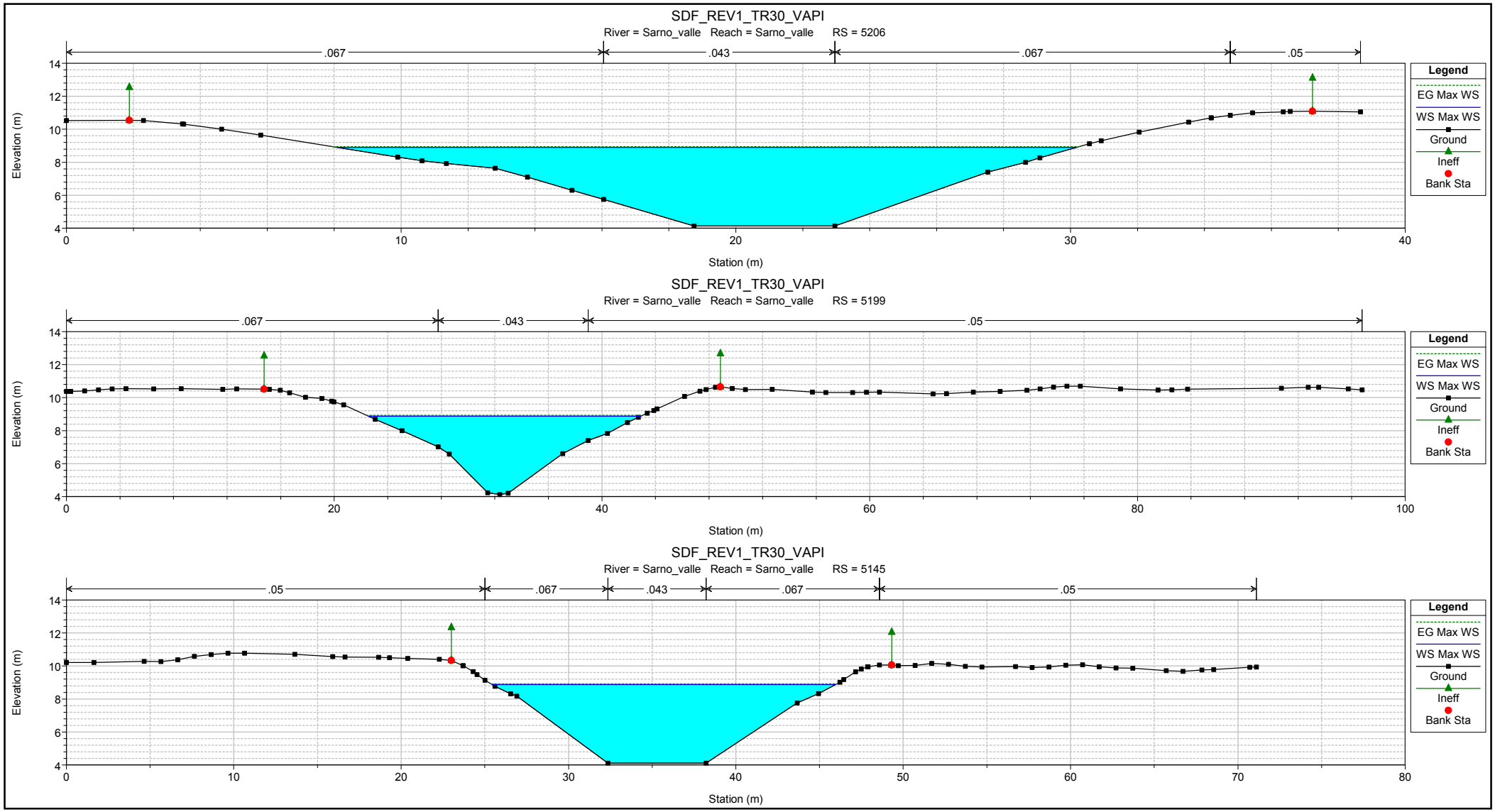

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5980
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5917
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5881
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

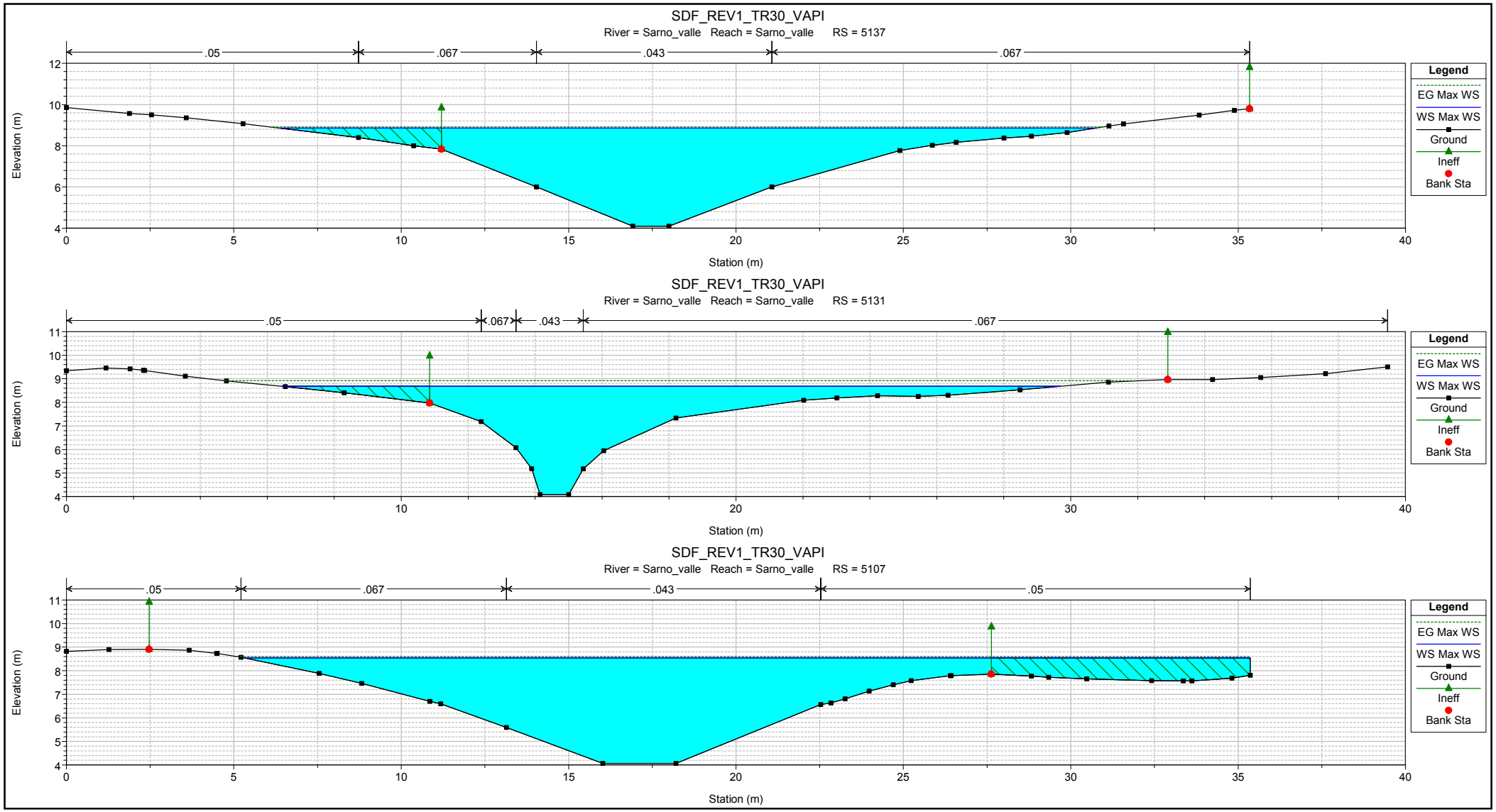

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5861
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5812
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5744
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

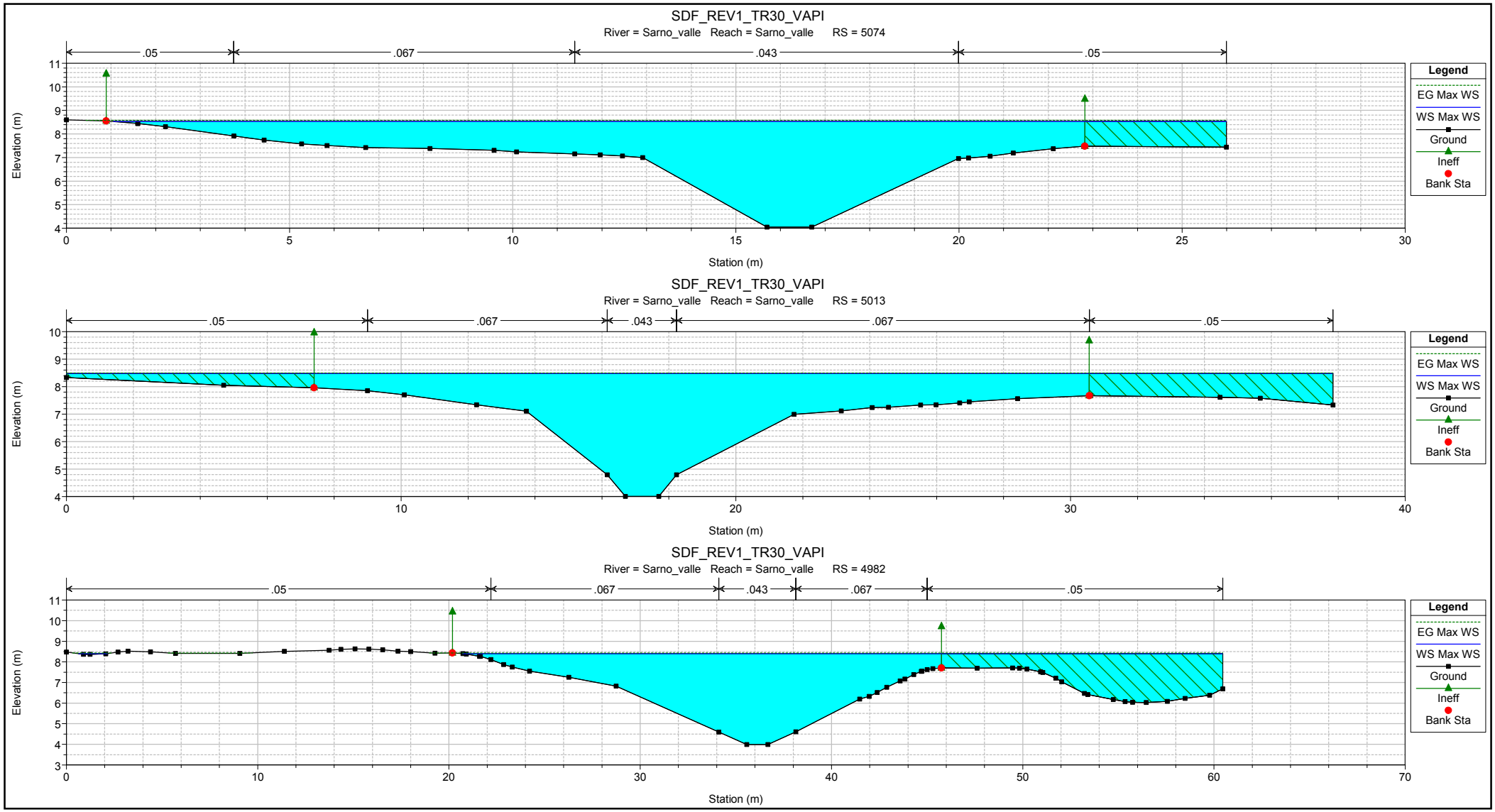

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5662
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5604
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5552
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

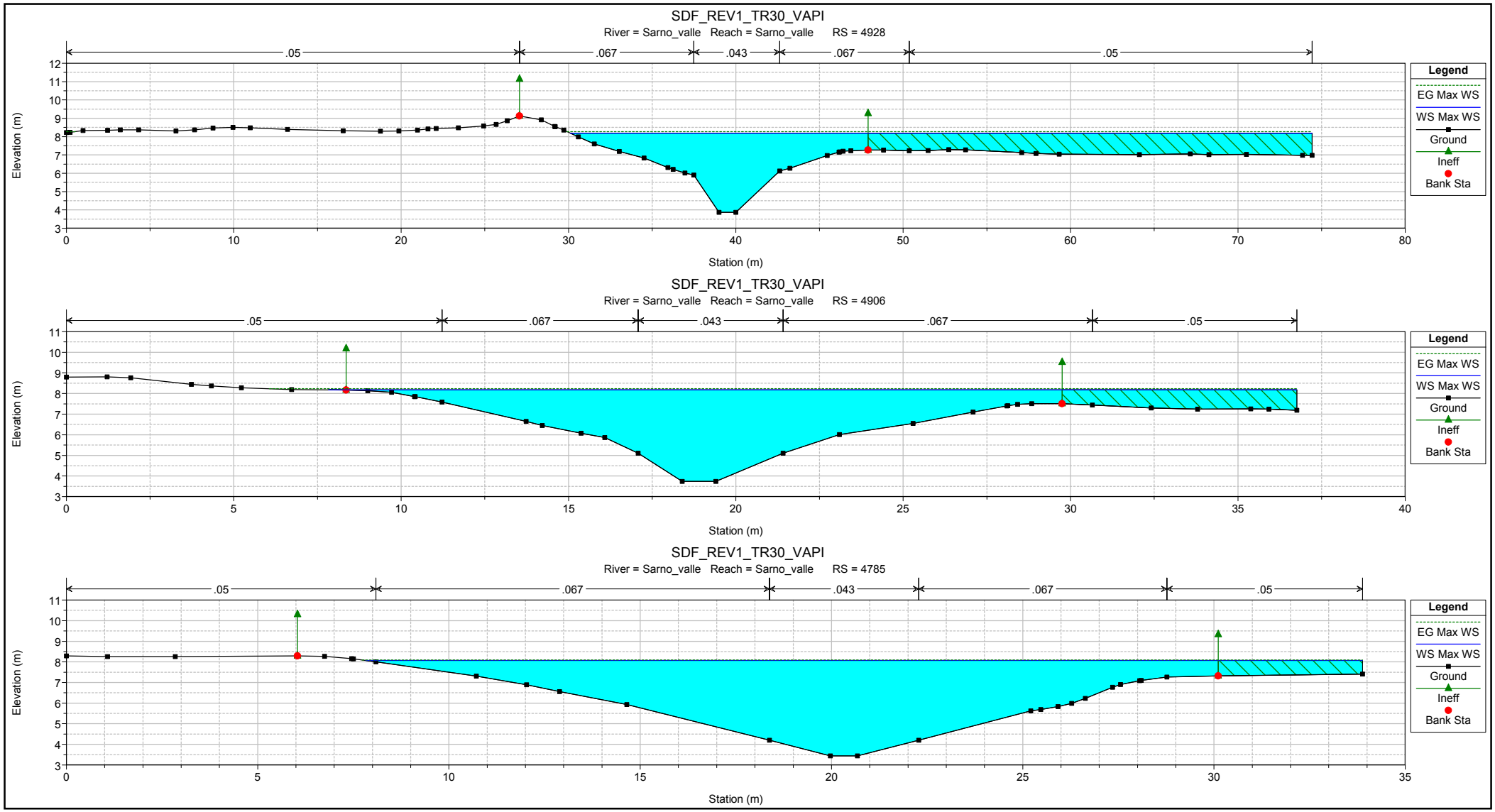

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5478
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5415
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5359
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

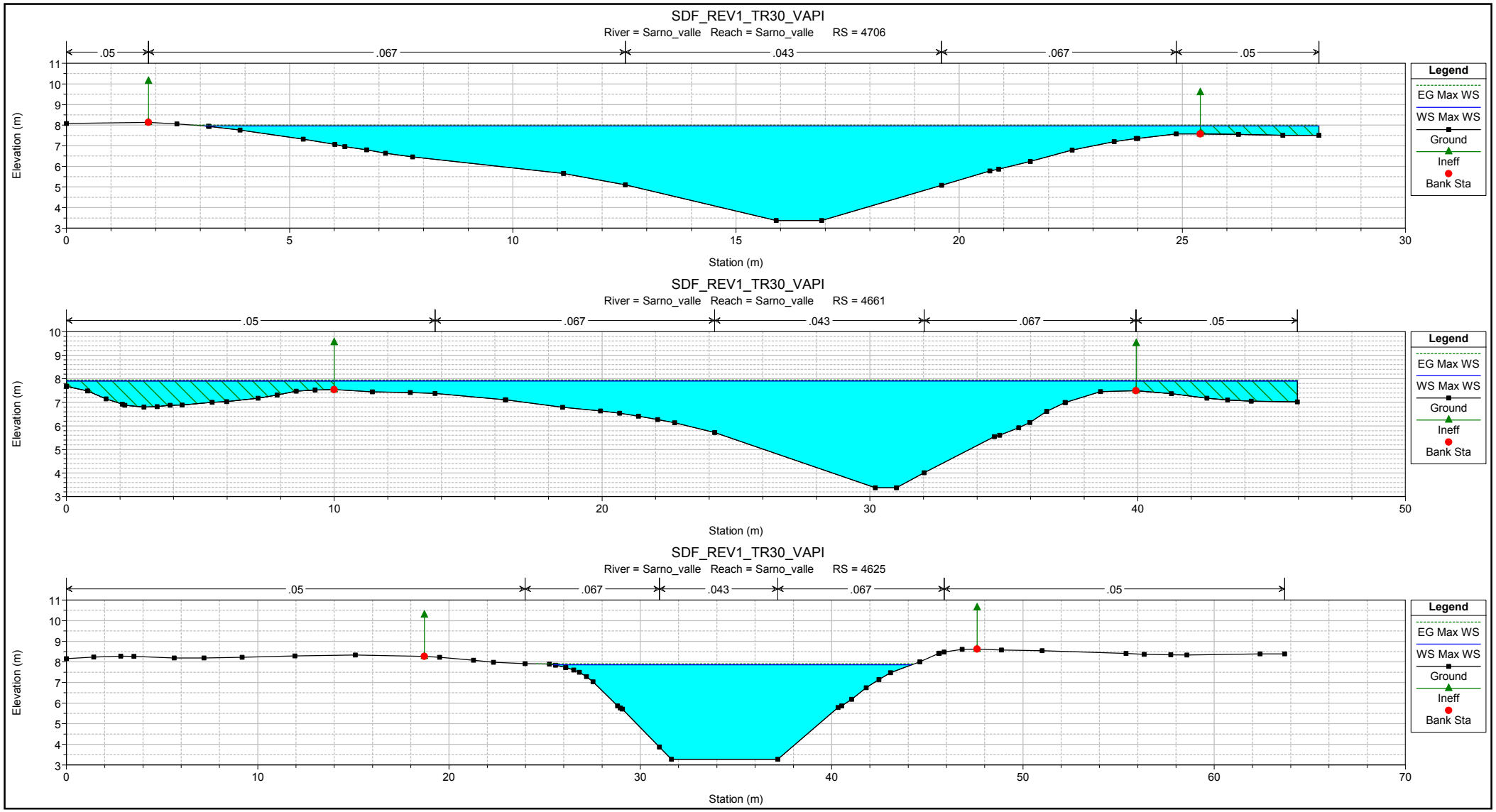

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5279
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5251
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5222
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

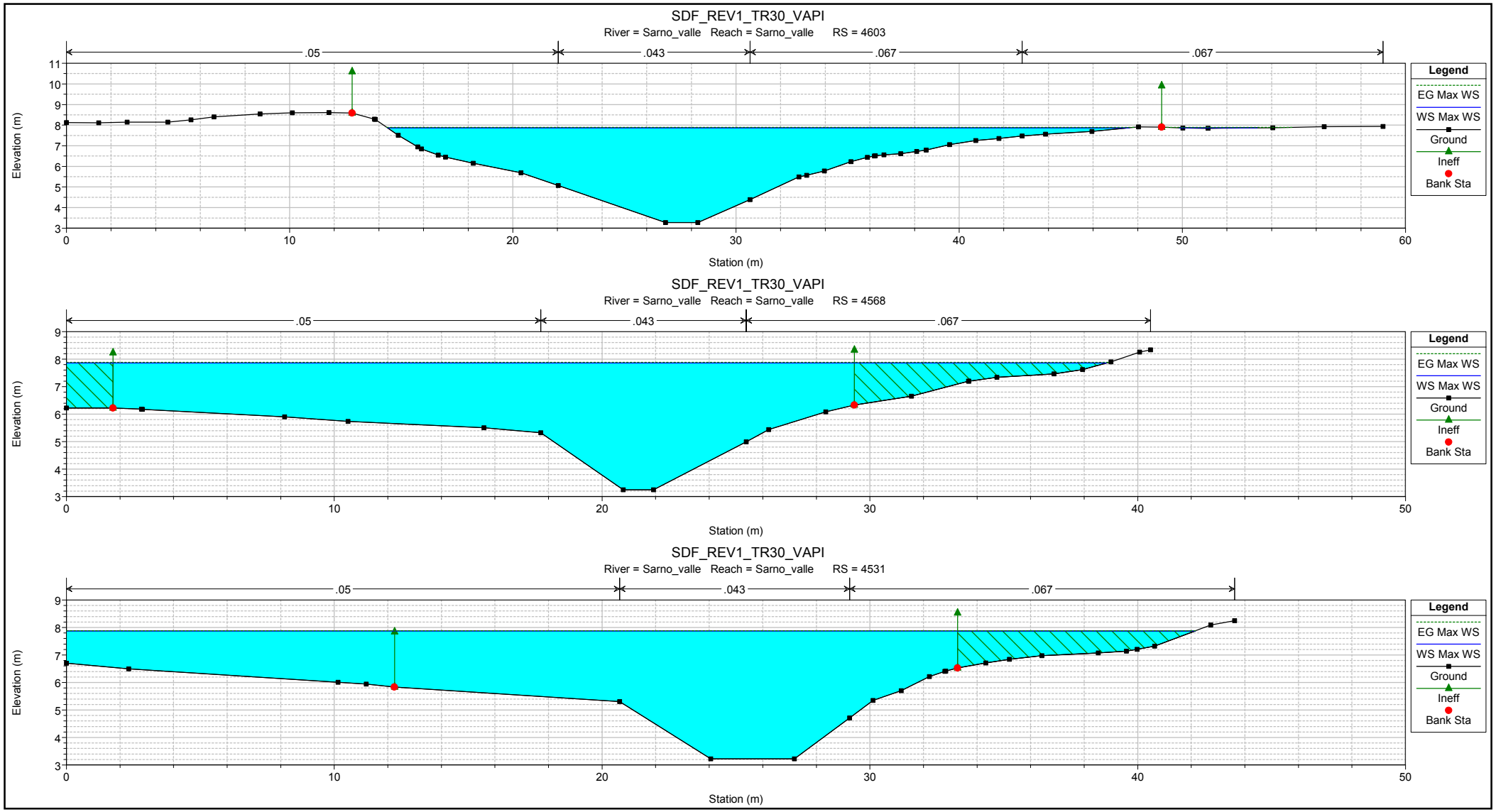

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5206
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5199
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5145
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

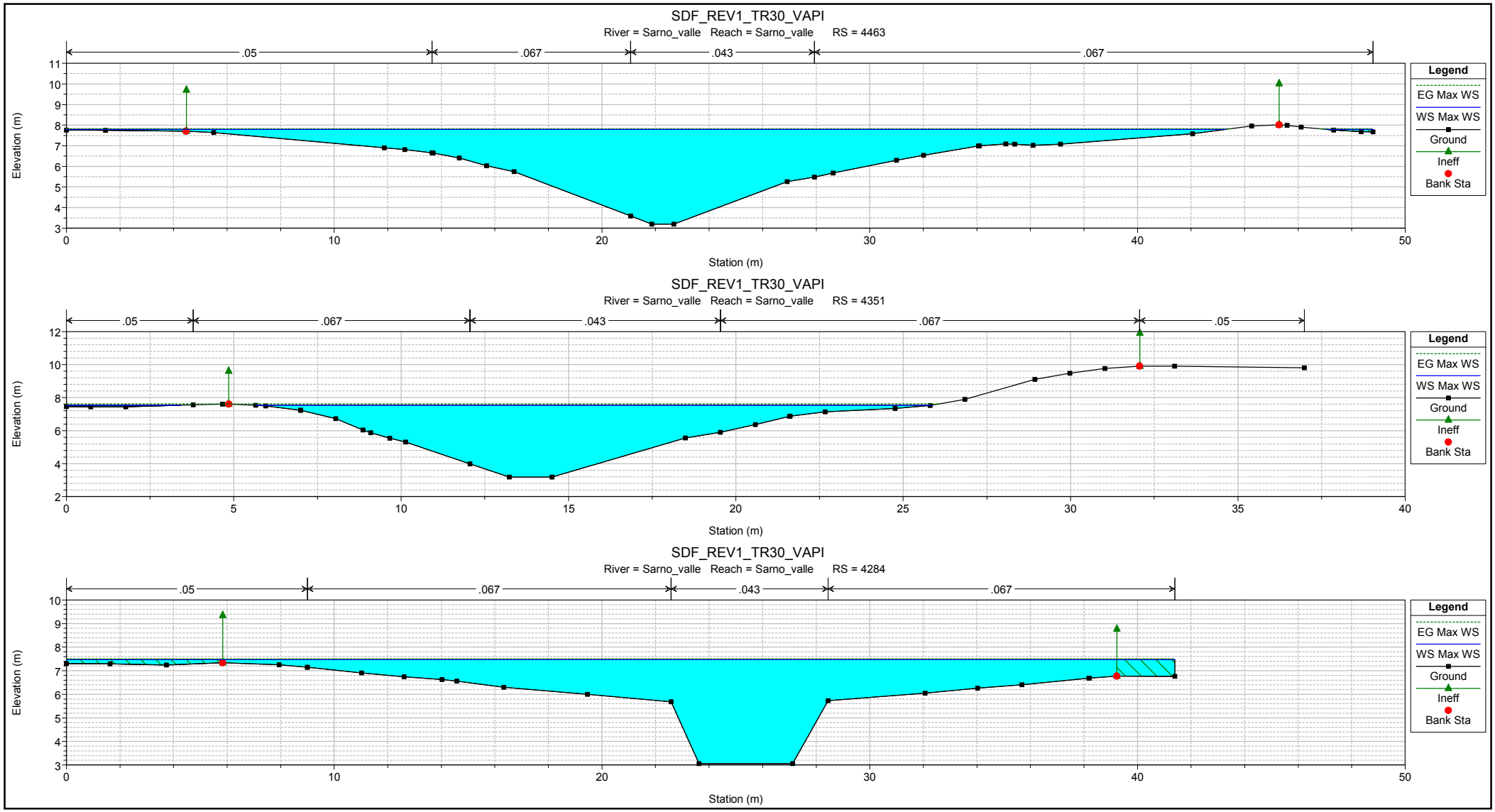

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5137
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5131
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5107
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

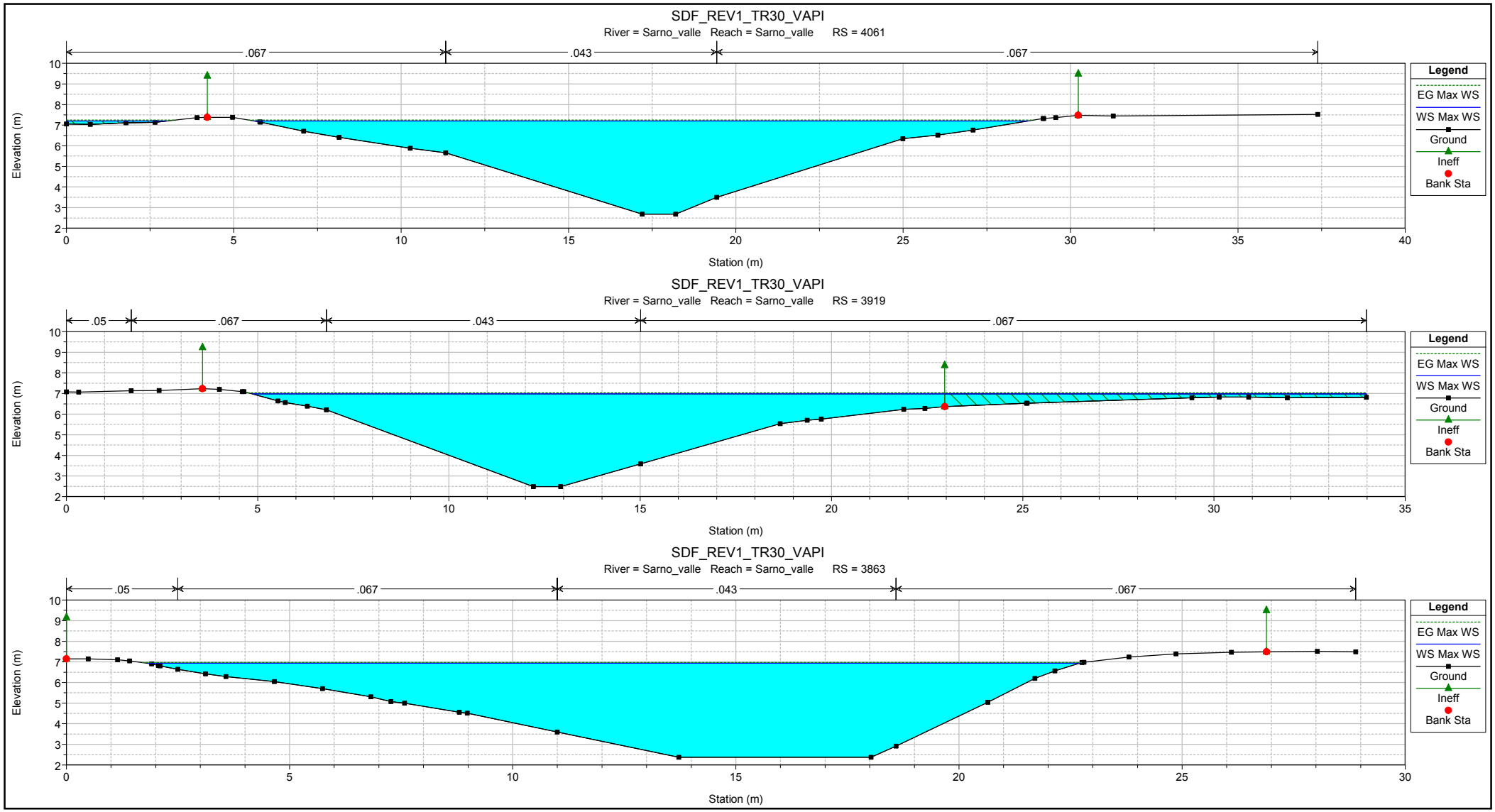

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5074
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5013
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4982
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

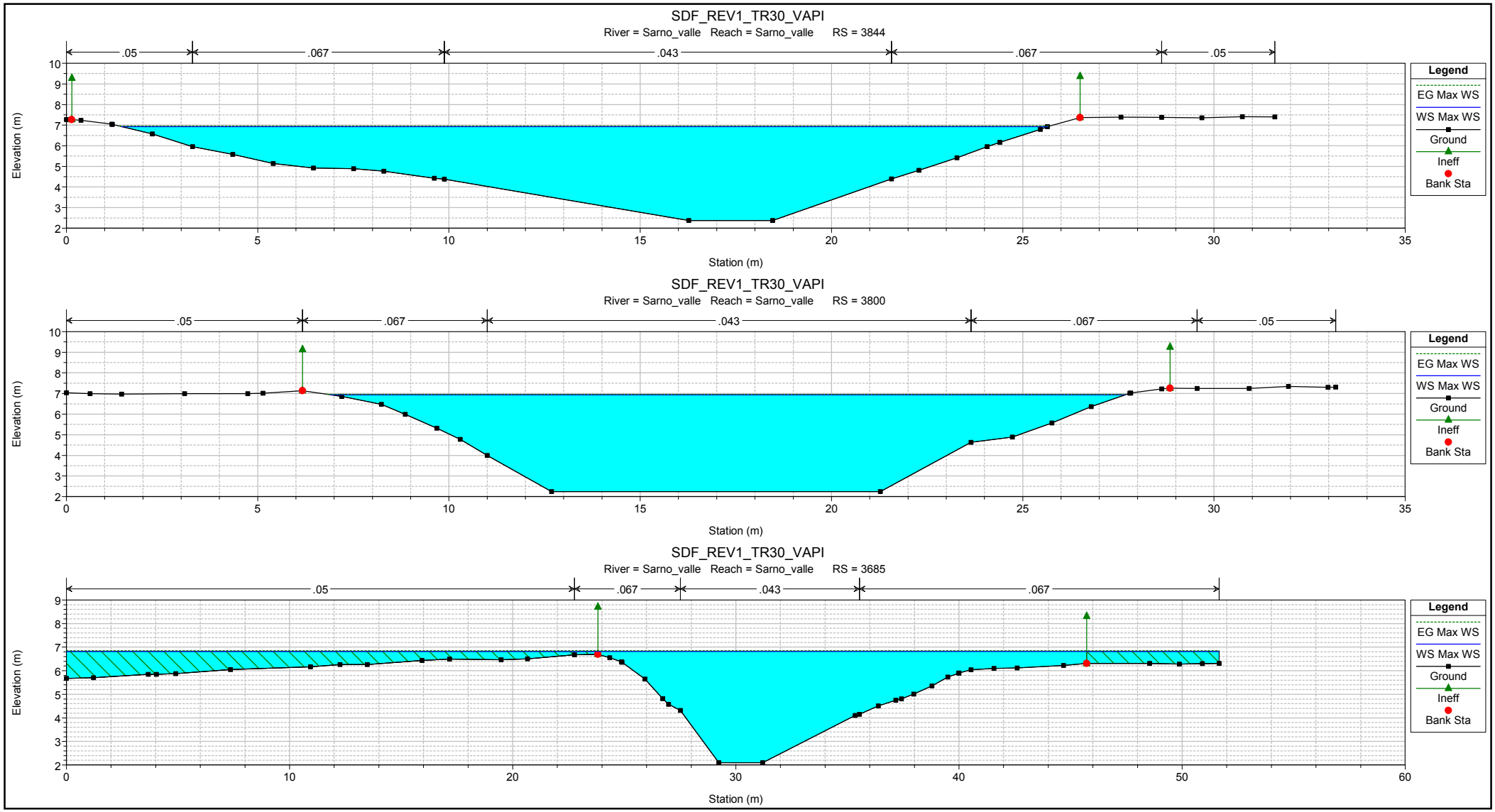

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4928
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4906
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4785
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

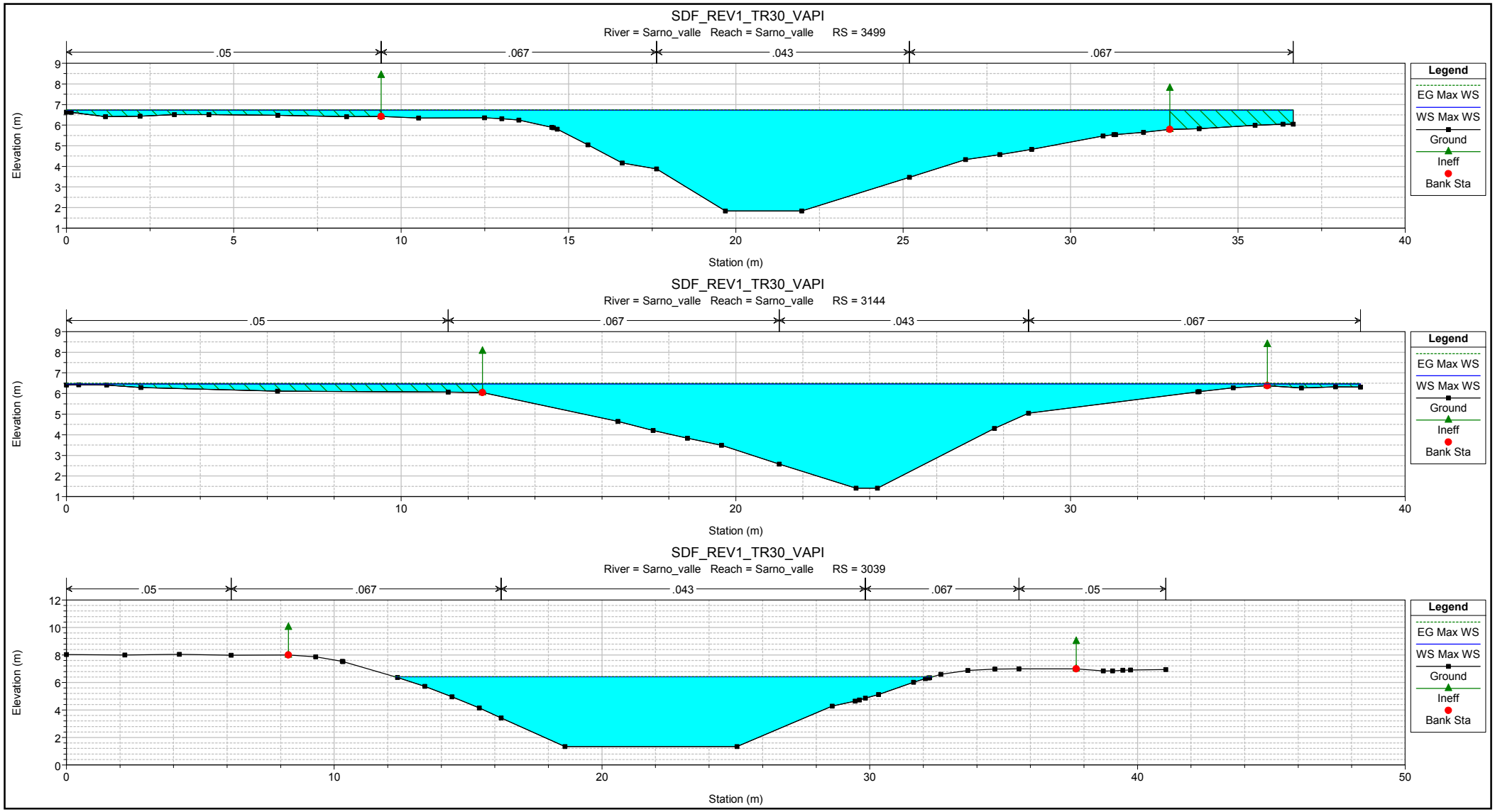

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4706
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4661
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4625
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

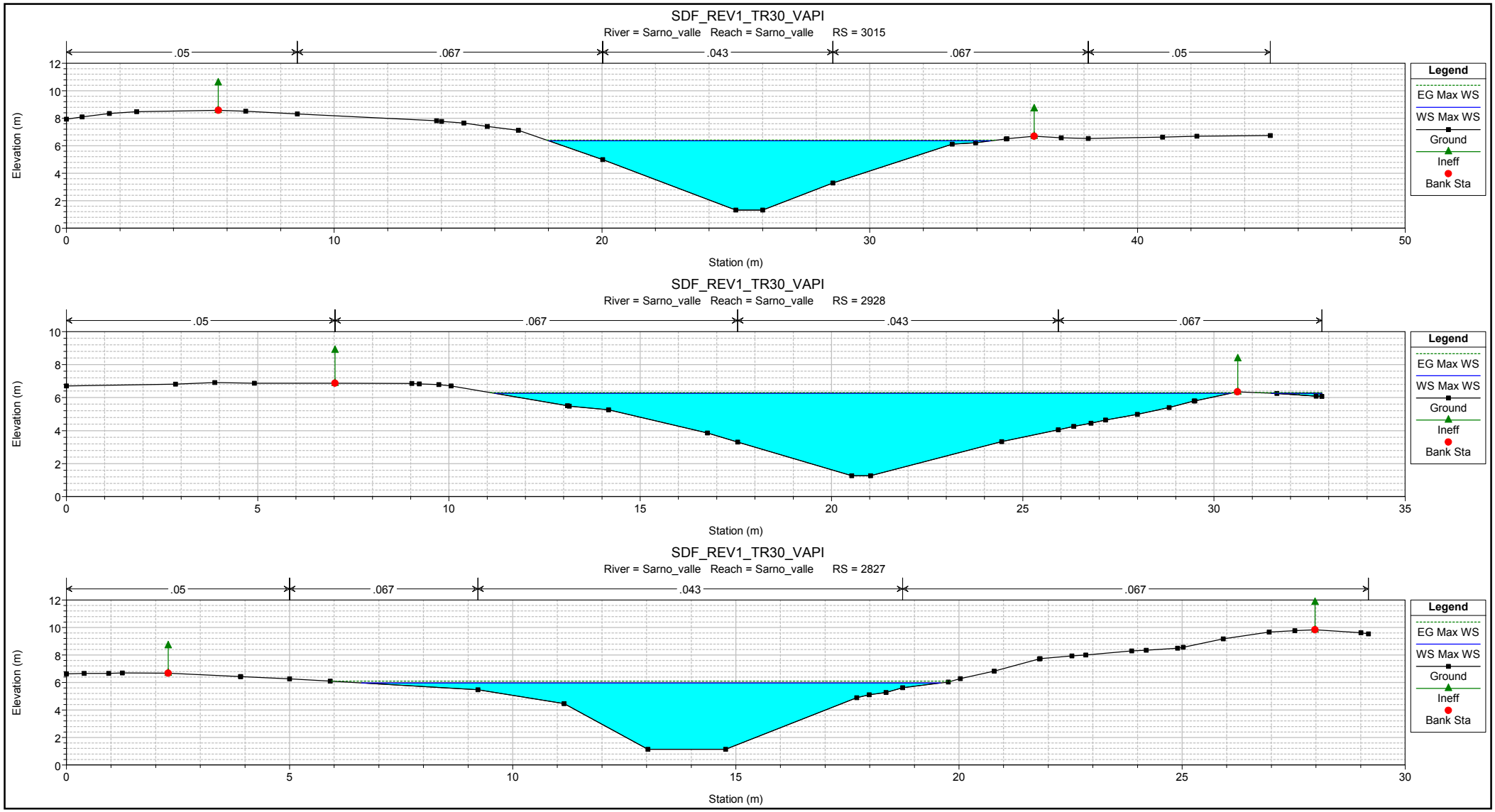

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4603
.05
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4568
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4531
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

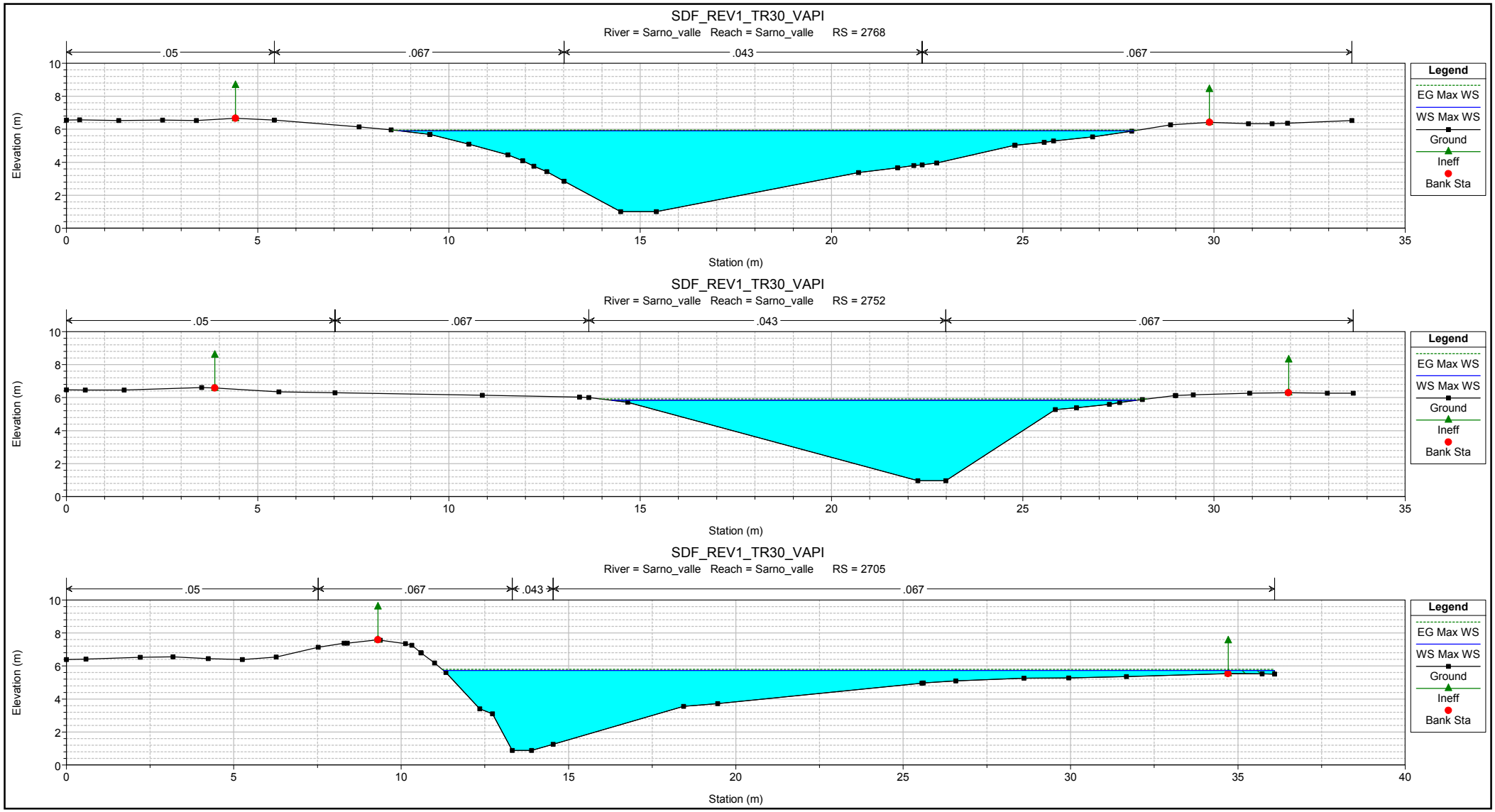

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4463
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4284
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

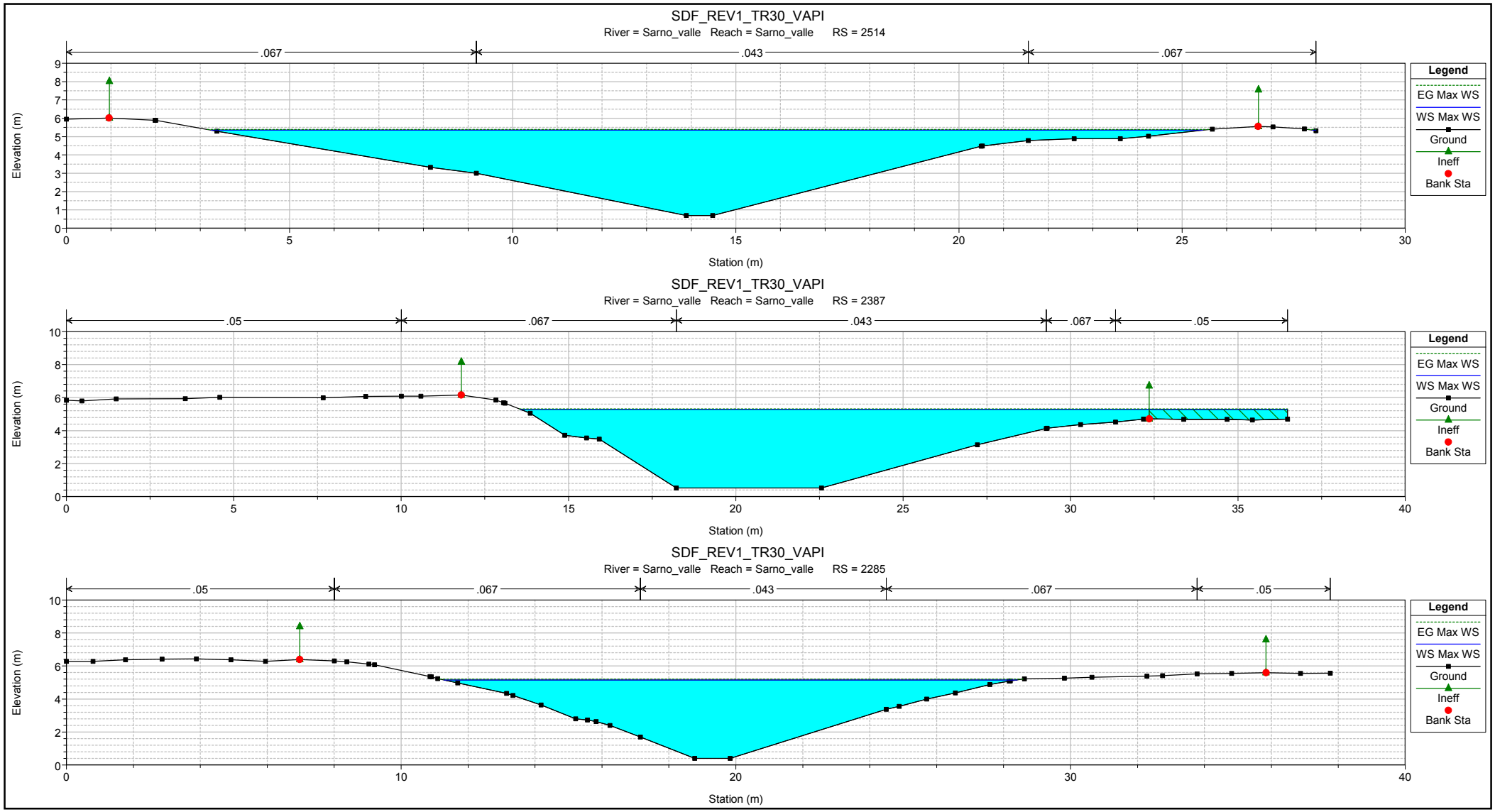

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4061
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3919
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3863
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

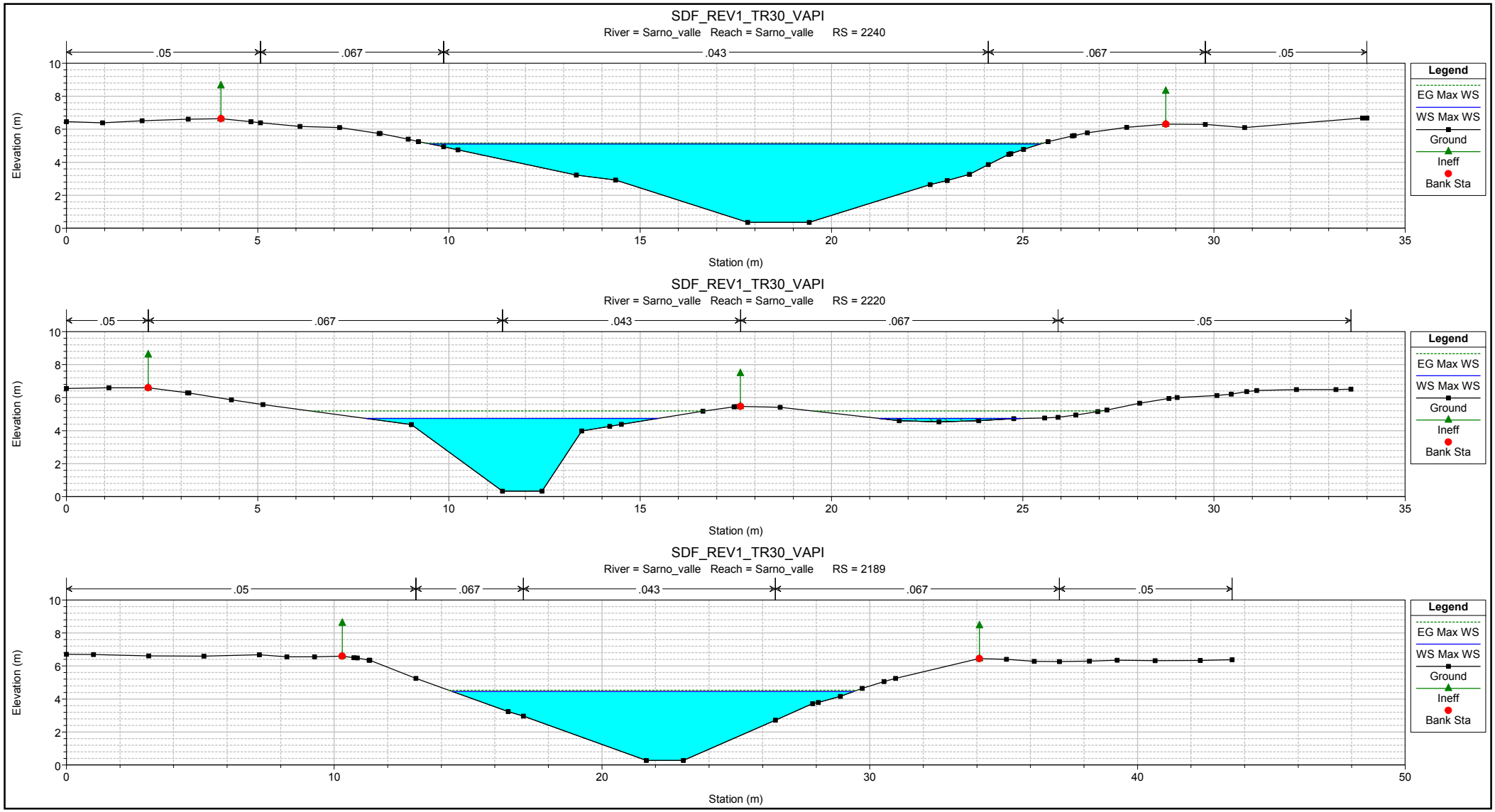

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3844
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3800
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3685
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

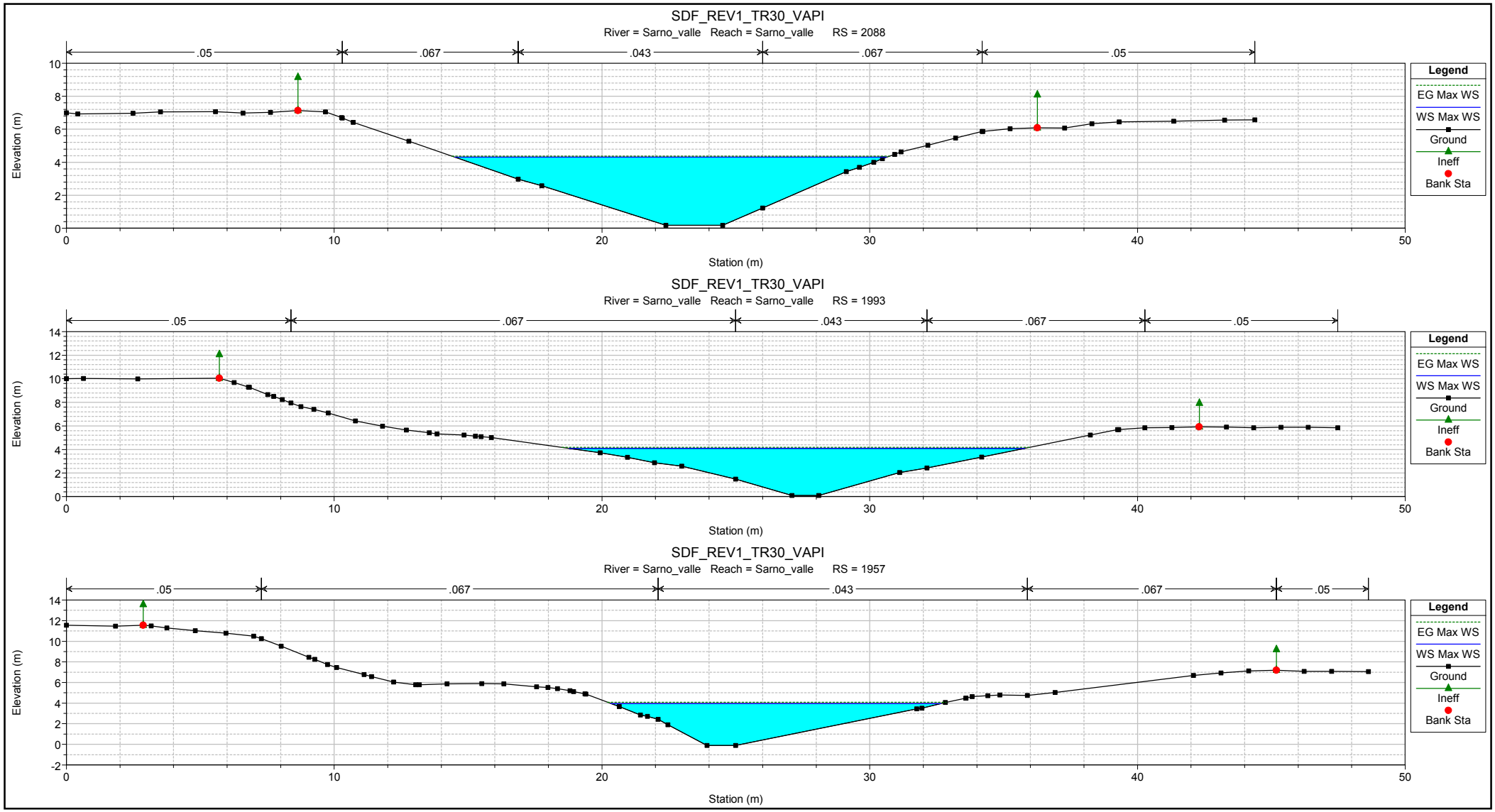

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3499
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3144
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3039
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

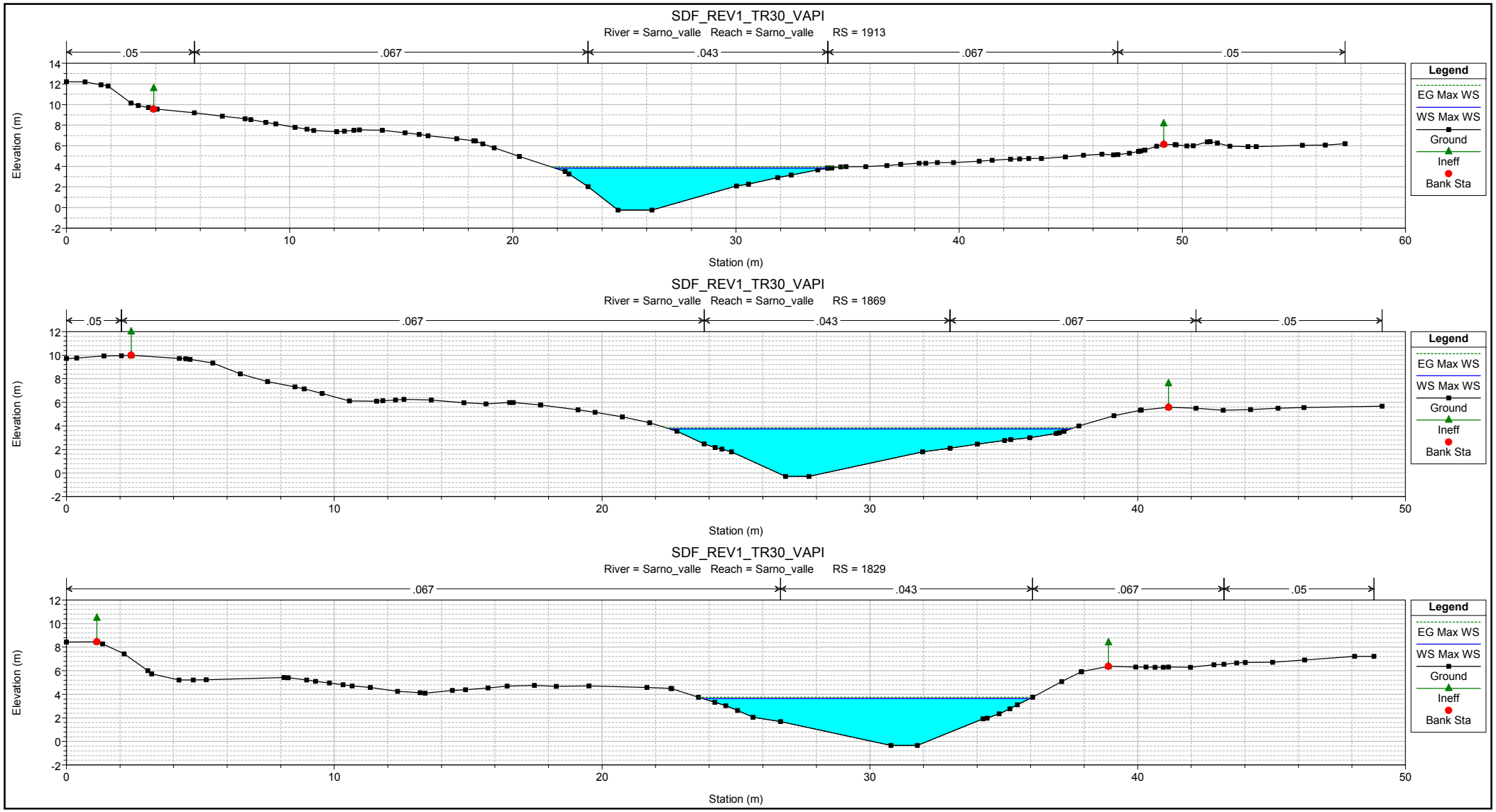

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3015
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2928
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2827
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

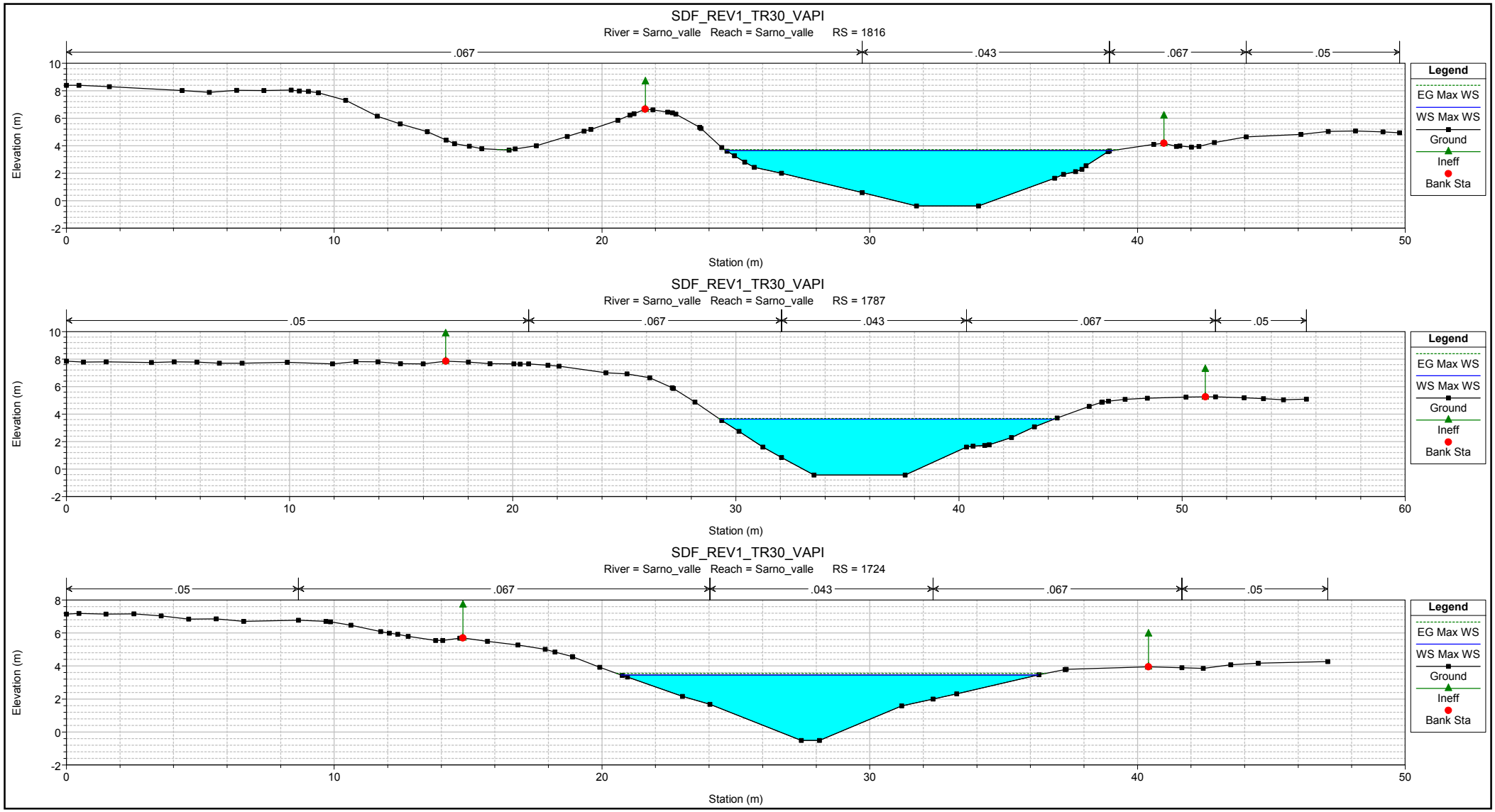

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2768
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2752
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2705
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

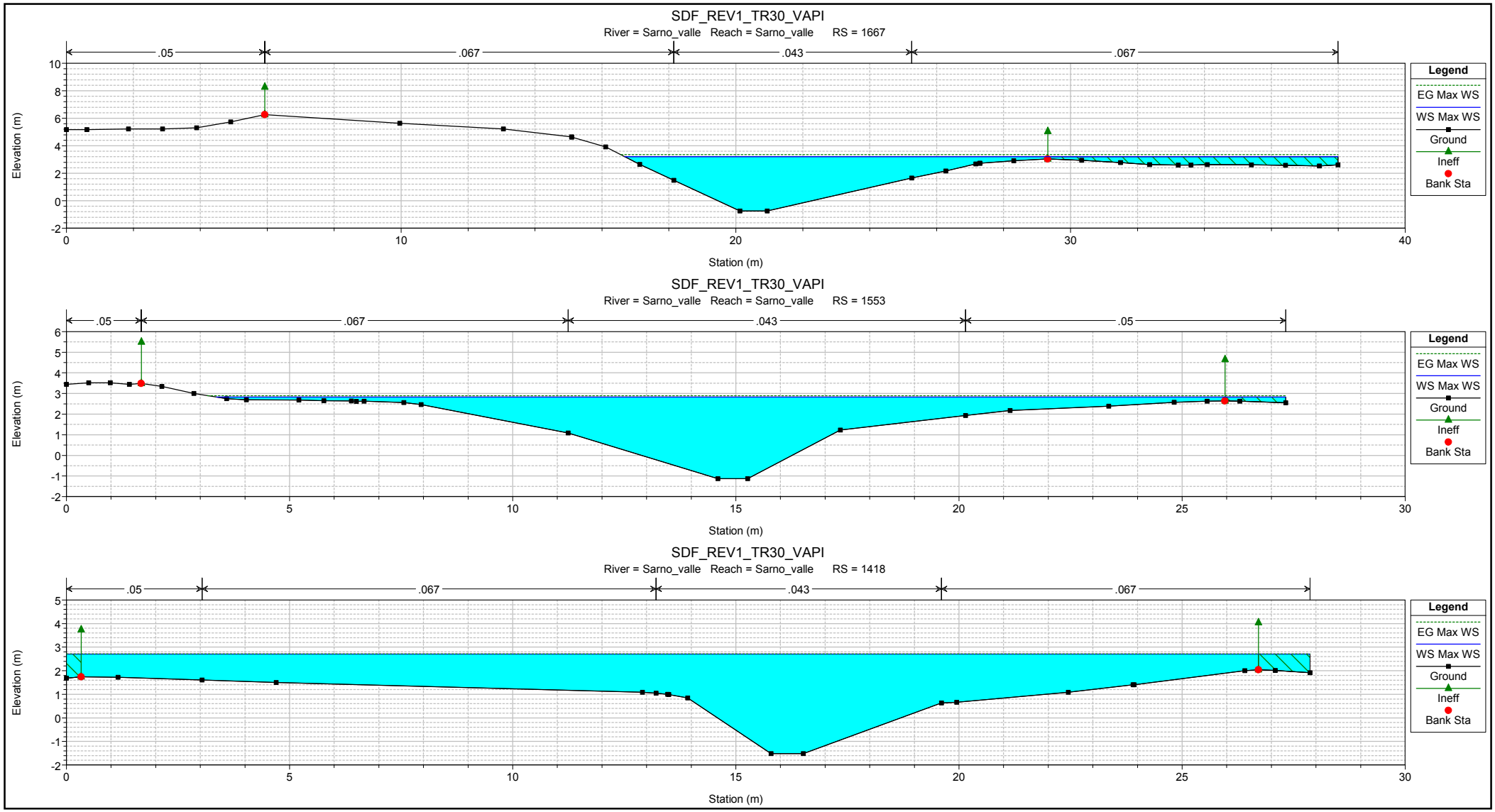

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2514
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2387
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2285
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

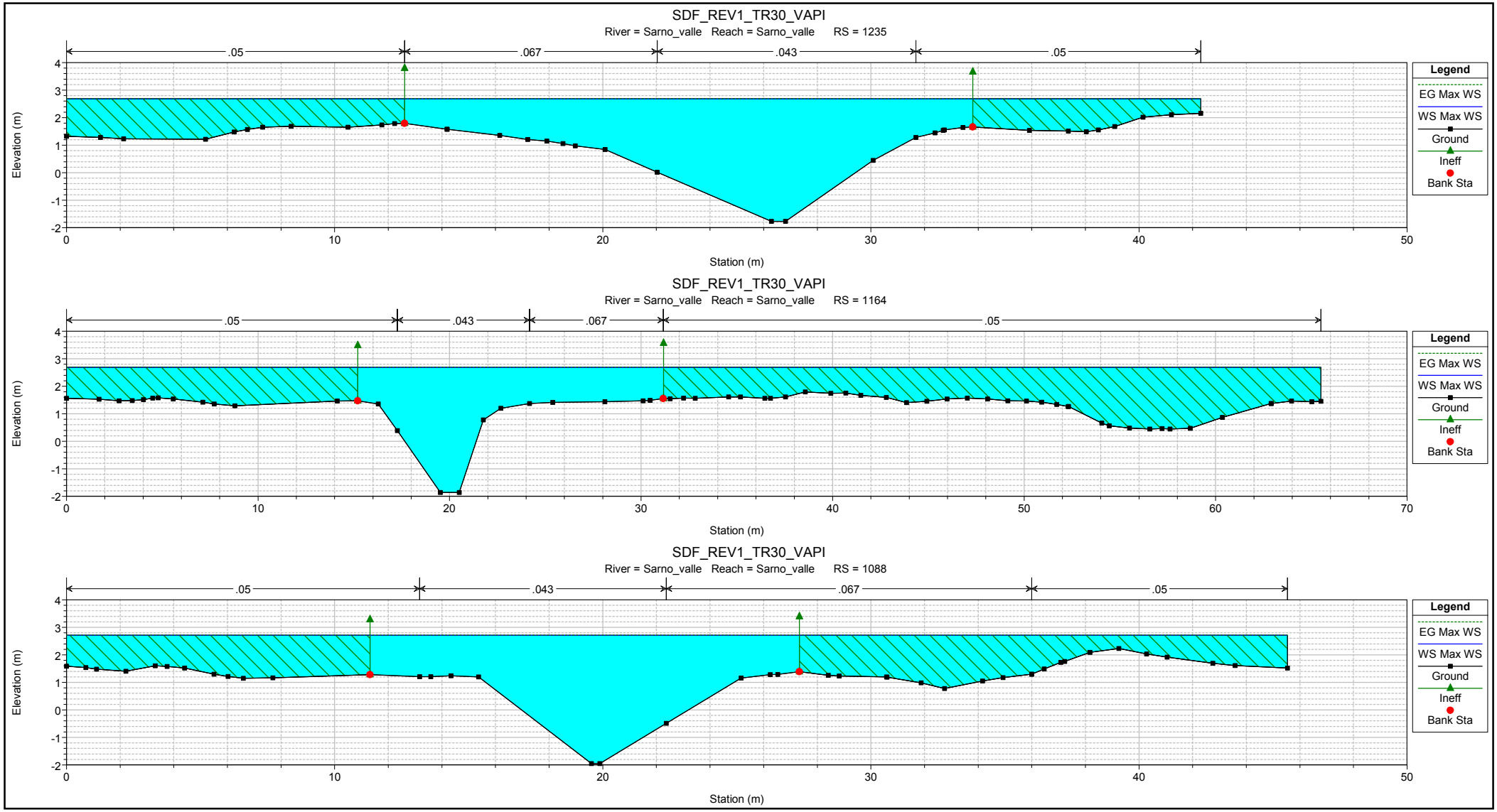

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2240
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2189
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

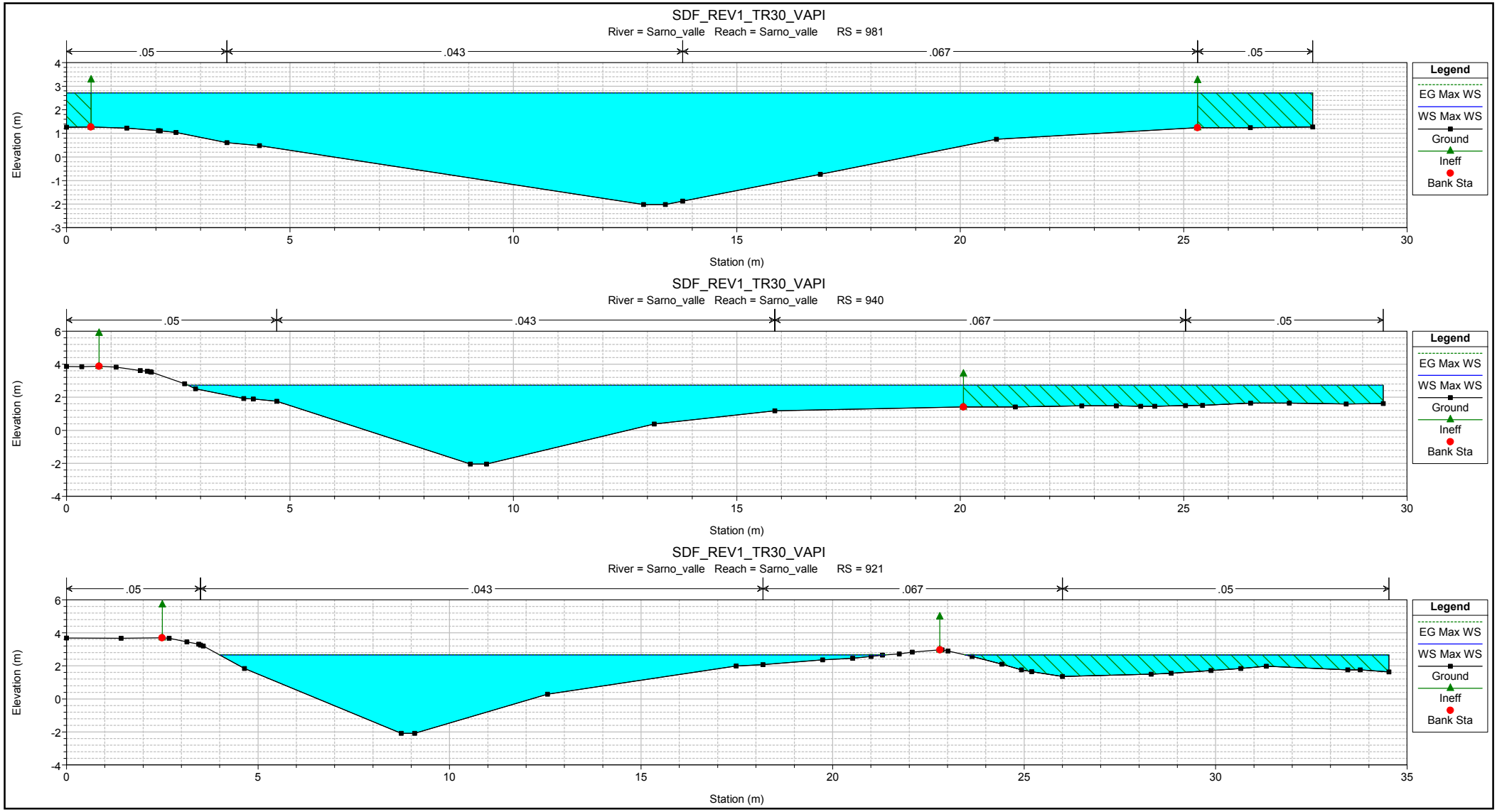

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2088
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1993
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1957
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

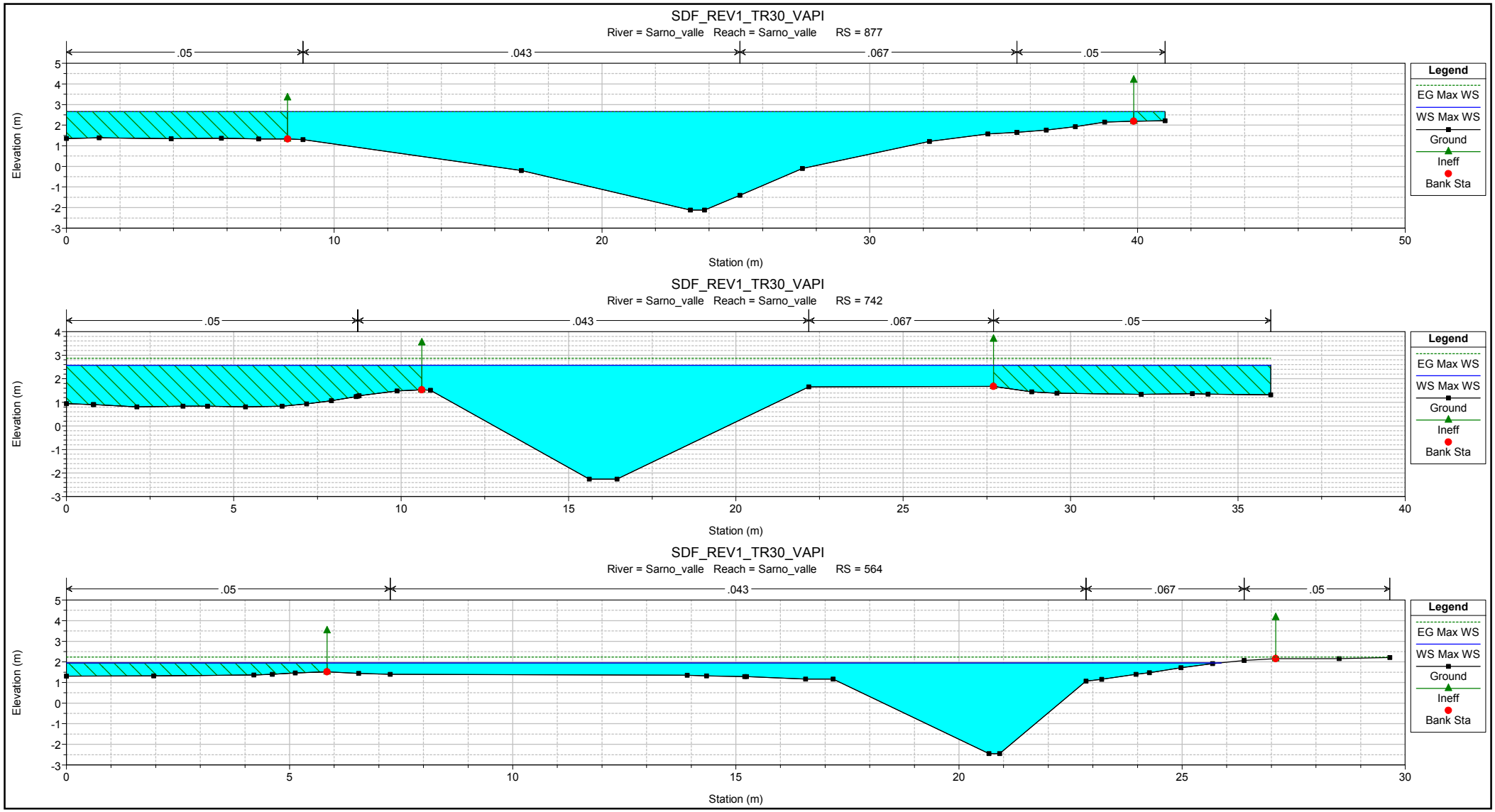

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1913
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1869
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1829
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

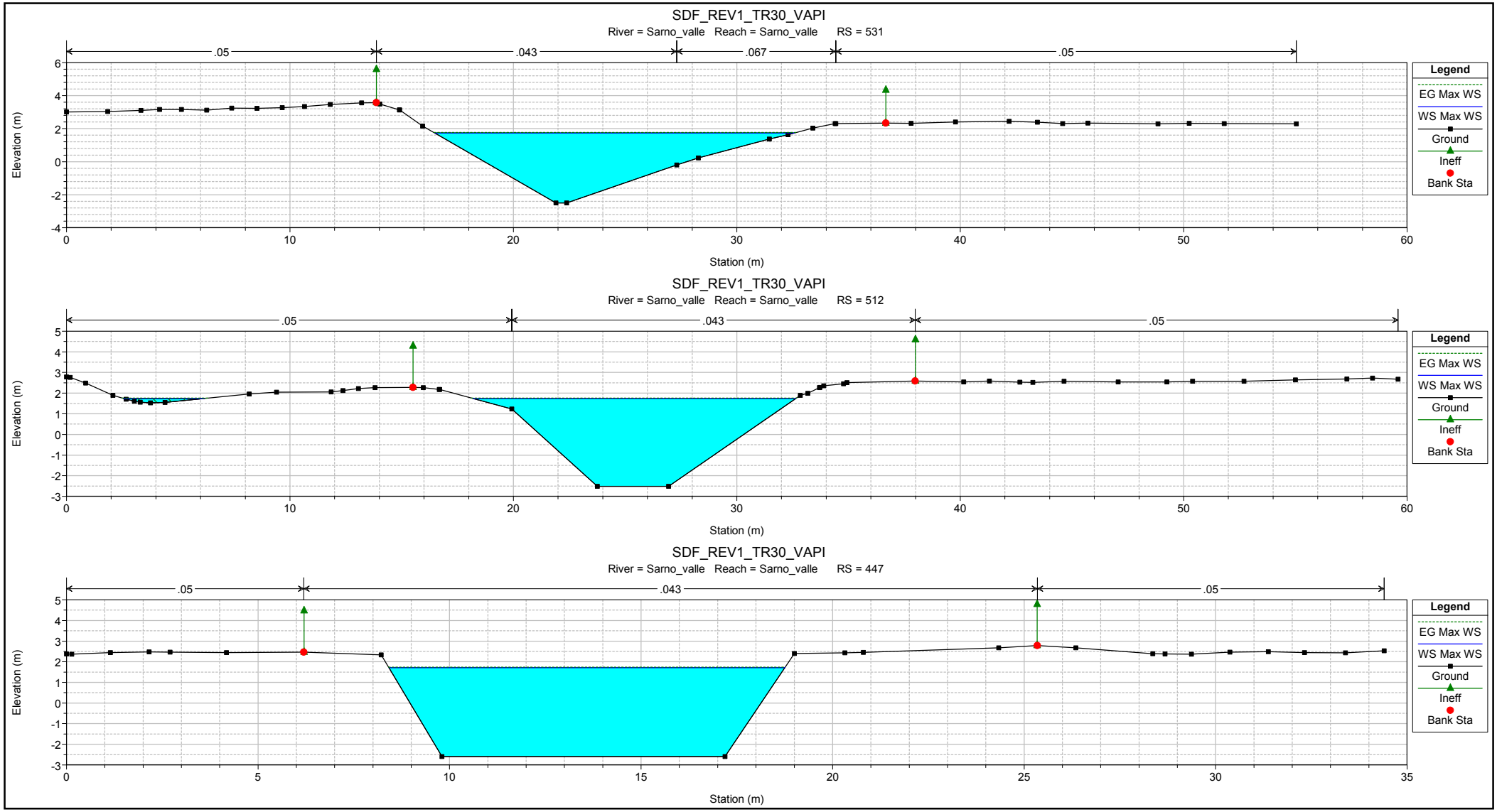

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1816
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1787
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1724
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

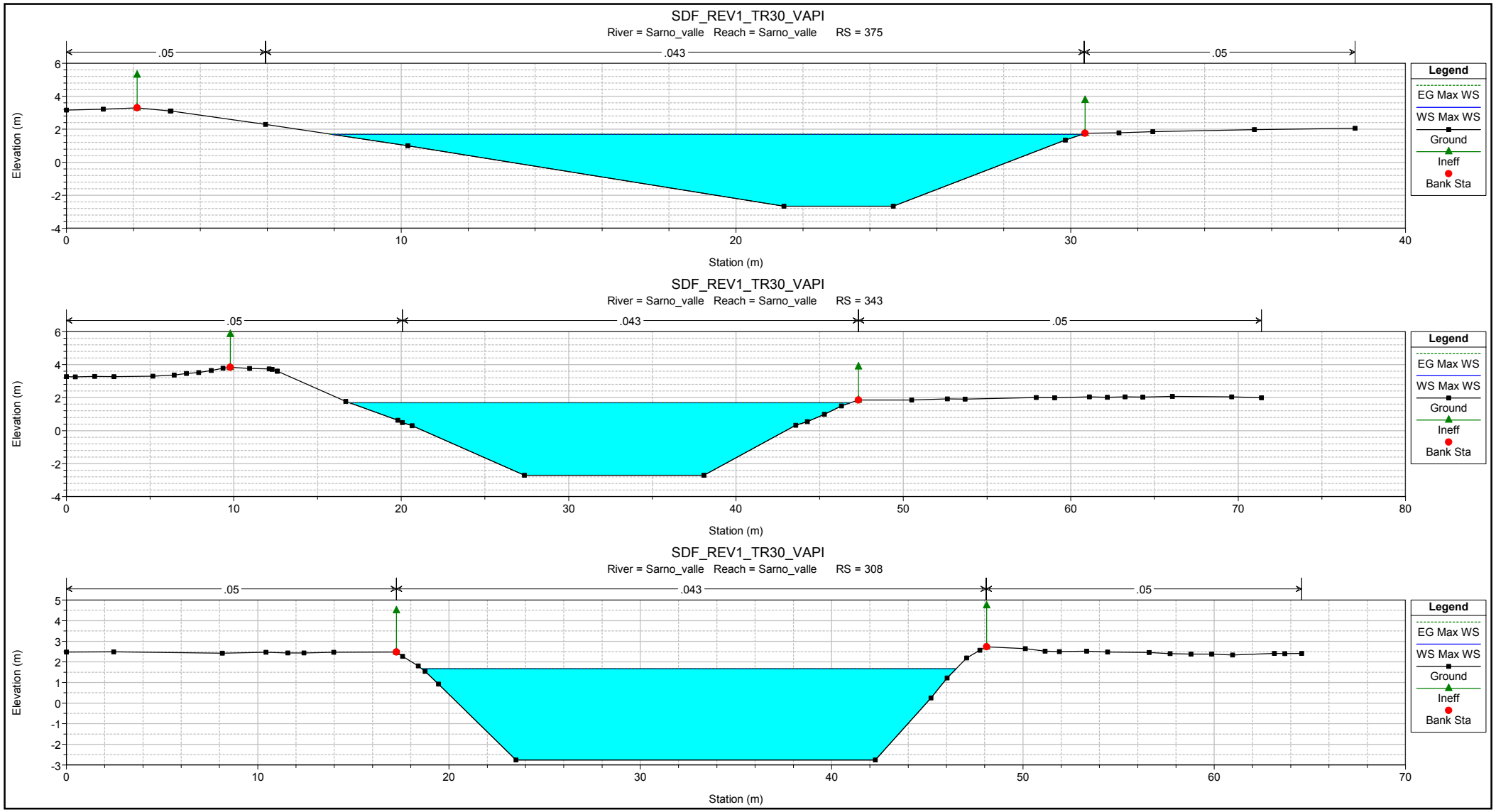

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1667
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1553
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1418
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

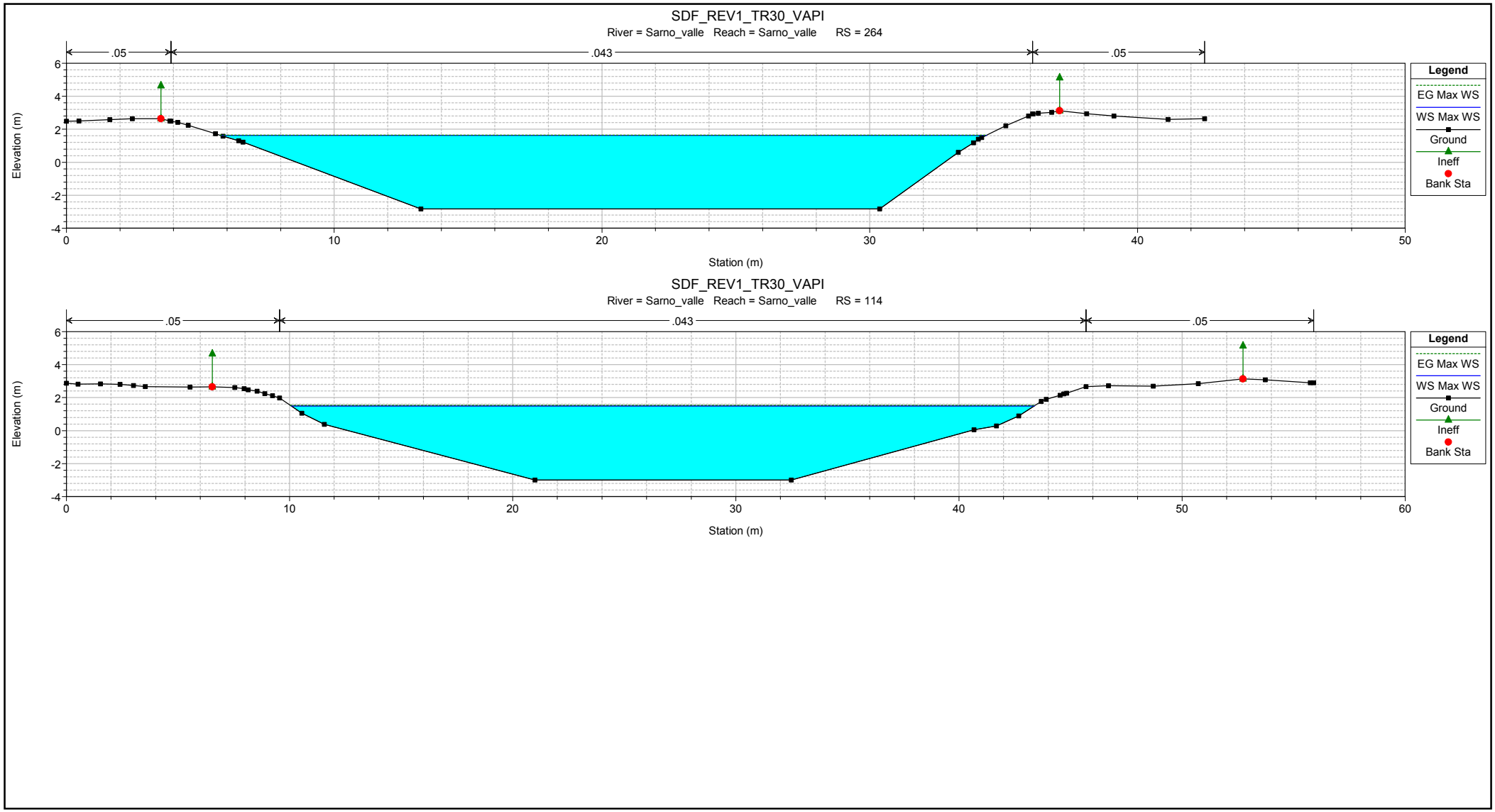

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1235
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1164
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1088
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 981
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 940
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 921
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

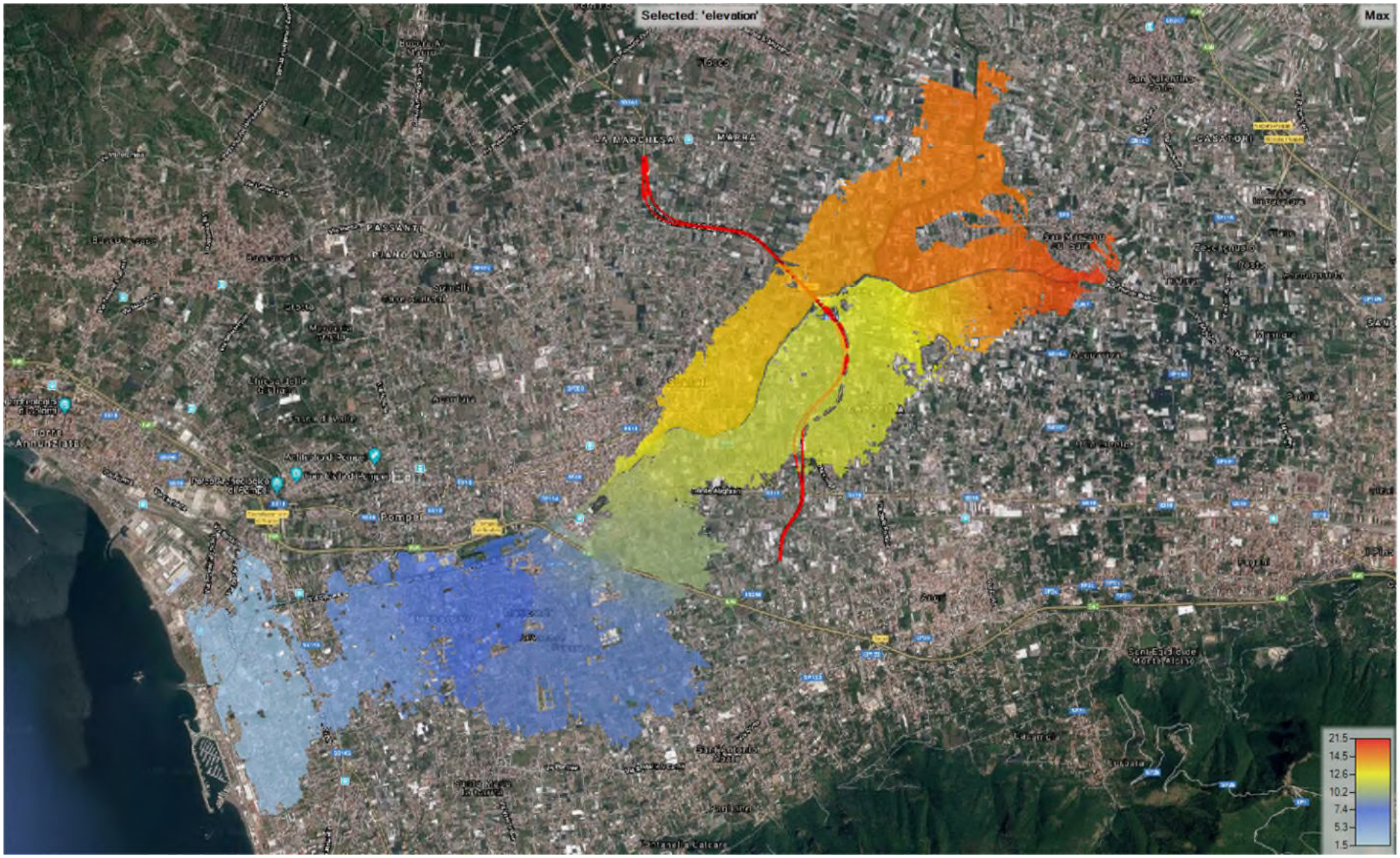

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 877
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 742
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 564
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 531
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 512
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 447
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

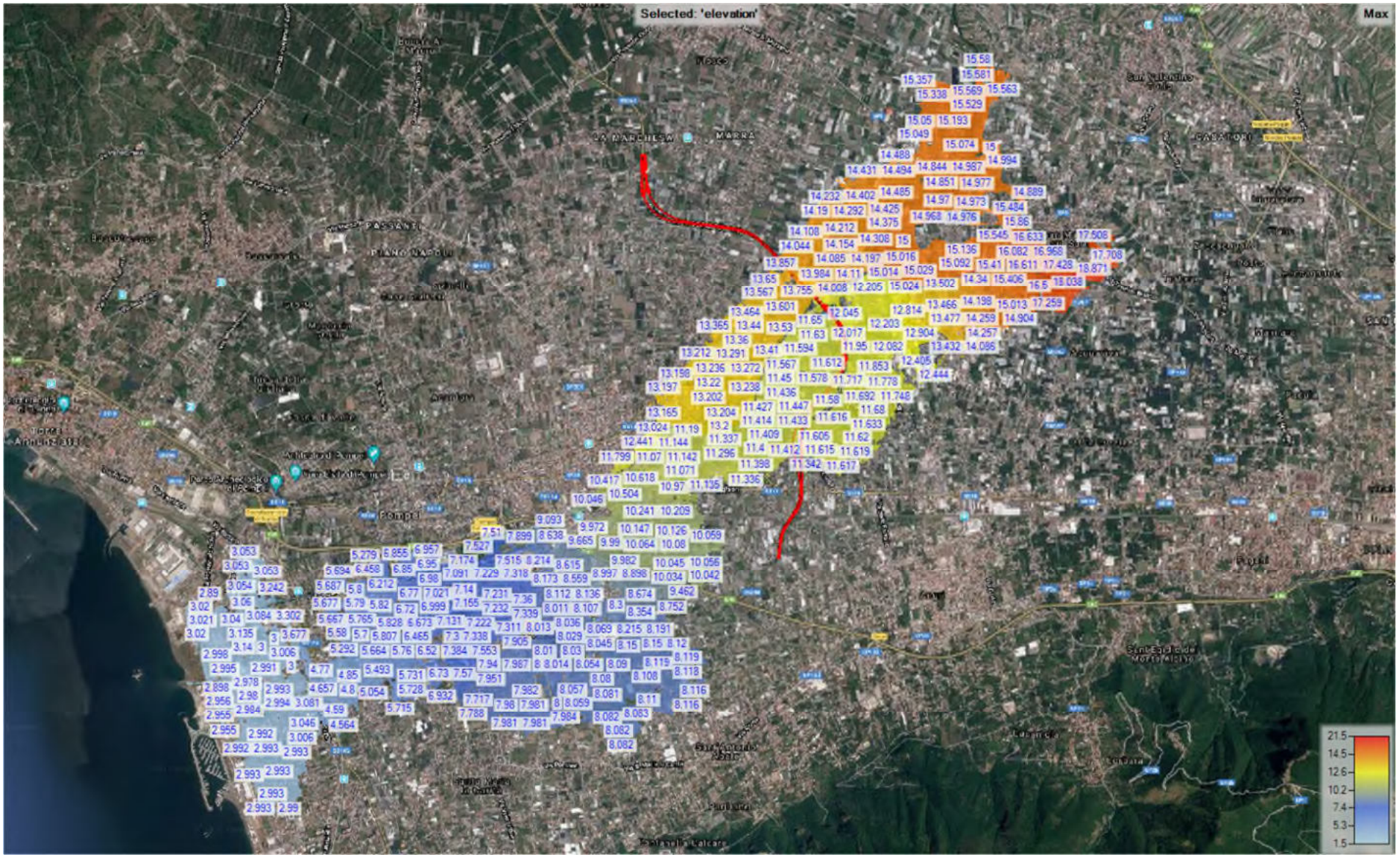

SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 375
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 343
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 308
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 264
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 114
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

2.1.2. Configurazione di stato di fatto Evento TR 100 anni



Inviluppo dei massimi livelli idrici



Inviluppo dei massimi livelli idrici (visualizzazione numerica del livello massimo)

HEC-RAS Plan: SDF_REV1_TR100_VAPI Profile: Max WS

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	10158	Max WS	12.34	10.79	4.08	14.87	0.04	14.87	0.19	2.50
Sarno_valle	Sarno_valle	10156		Lat Struct							
Sarno_valle	Sarno_valle	10155		Lat Struct							
Sarno_valle	Sarno_valle	10050	Max WS	10.91	10.75	3.52	14.27	0.10	14.27	0.41	1.89
Sarno_valle	Sarno_valle	9965	Max WS	10.60	10.71	3.14	13.85	0.17	13.87	0.68	1.60
Sarno_valle	Sarno_valle	9887	Max WS	10.54	10.68	3.14	13.82	0.09	13.83	0.37	1.89
Sarno_valle	Sarno_valle	9824	Max WS	10.50	10.57	3.23	13.80	0.11	13.81	0.45	1.70
Sarno_valle	Sarno_valle	9751	Max WS	10.48	10.43	3.35	13.78	0.10	13.79	0.43	1.73
Sarno_valle	Sarno_valle	9629	Max WS	10.47	10.36	3.38	13.74	0.11	13.75	0.45	1.67
Sarno_valle	Sarno_valle	9518	Max WS	10.46	10.30	3.41	13.71	0.08	13.72	0.36	1.91
Sarno_valle	Sarno_valle	9435	Max WS	10.43	10.22	3.45	13.67	0.14	13.69	0.62	1.86
Sarno_valle	Sarno_valle	9396	Max WS	10.43	10.18	3.48	13.66	0.11	13.67	0.44	1.70
Sarno_valle	Sarno_valle	9363	Max WS	10.40	10.14	3.49	13.63	0.15	13.65	0.63	1.88
Sarno_valle	Sarno_valle	9318	Max WS	10.35	10.10	3.50	13.60	0.15	13.62	0.61	1.57
Sarno_valle	Sarno_valle	9130	Max WS	10.03	9.90	3.64	13.54	0.07	13.54	0.29	1.92
Sarno_valle	Sarno_valle	8979	Max WS	9.39	9.75	3.75	13.50	0.10	13.51	0.43	1.83
Sarno_valle	Sarno_valle	8789	Max WS	8.05	9.60	3.87	13.47	0.06	13.47	0.26	1.91
Sarno_valle	Sarno_valle	8648	Max WS	10.82	9.45	3.98	13.43	0.10	13.44	0.42	1.84
Sarno_valle	Sarno_valle	8574	Max WS	17.23	9.37	4.02	13.39	0.12	13.40	0.49	1.55
Sarno_valle	Sarno_valle	8311	Max WS	25.87	9.25	4.01	13.26	0.13	13.28	0.57	1.97
Sarno_valle	Sarno_valle	8123	Max WS	25.87	9.08	4.10	13.18	0.12	13.20	0.56	2.34
Sarno_valle	Sarno_valle	7939	Max WS	18.10	8.98	4.15	13.13	0.10	13.14	0.46	2.16
Sarno_valle	Sarno_valle	7710	Max WS	-10.42	8.80	4.32	13.12	0.05	13.12	-0.22	2.10
Sarno_valle	Sarno_valle	7544	Max WS	-17.01	8.63	4.50	13.14	0.07	13.14	-0.32	1.96
Sarno_valle	Sarno_valle	7437	Max WS	0.45	8.41	4.74	13.15	0.00	13.15	0.01	2.28
Sarno_valle	Sarno_valle	7410	Max WS	15.80	8.41	4.73	13.14	0.06	13.15	0.31	2.37
Sarno_valle	Sarno_valle	7388	Max WS	31.34	8.40	4.71	13.11	0.13	13.13	0.61	2.34
Sarno_valle	Sarno_valle	7351	Max WS	46.85	8.37	4.64	13.01	0.23	13.06	0.97	1.81
Sarno_valle	Sarno_valle	7310	Max WS	42.89	8.32	4.64	12.96	0.21	13.01	1.01	2.27
Sarno_valle	Sarno_valle	7220	Max WS	19.62	8.21	4.76	12.97	0.10	12.99	0.46	2.14
Sarno_valle	Sarno_valle	7143	Max WS	0.82	8.20	4.78	12.98	0.00	12.98	0.02	1.70
Sarno_valle	Sarno_valle	7121	Max WS	0.12	8.20	4.78	12.98	0.00	12.98	0.00	2.09

HEC-RAS Plan: SDF_REV1_TR100_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	7042	Max WS	-13.56	8.18	4.80	12.98	0.05	12.98	-0.26	2.44
Sarno_valle	Sarno_valle	6896	Max WS	-18.58	8.10	4.89	12.99	0.07	13.00	-0.34	2.71
Sarno_valle	Sarno_valle	6751	Max WS	7.97	8.03	4.98	13.01	0.03	13.01	0.15	2.44
Sarno_valle	Sarno_valle	6575	Max WS	46.07	7.96	4.89	12.85	0.18	12.88	0.81	2.02
Sarno_valle	Sarno_valle	6325	Max WS	64.46	7.86	4.32	12.18	0.29	12.28	1.39	2.29
Sarno_valle	Sarno_valle	6158	Max WS	35.13	7.79	4.19	11.98	0.19	12.02	0.91	2.22
Sarno_valle	Sarno_valle	6097	Max WS	41.21	7.34	4.53	11.87	0.21	11.93	1.05	2.49
Sarno_valle	Sarno_valle	6081	Max WS	55.01	7.26	4.45	11.71	0.33	11.84	1.61	2.39
Sarno_valle	Sarno_valle	6076	Max WS	54.37	7.25	4.49	11.74	0.28	11.83	1.30	2.23
Sarno_valle	Sarno_valle	6049	Max WS	36.89	7.21	4.56	11.77	0.21	11.82	0.95	2.09
Sarno_valle	Sarno_valle	5980	Max WS	58.28	7.09	4.19	11.28	0.48	11.50	2.12	1.96
Sarno_valle	Sarno_valle	5917	Max WS	58.21	6.98	4.15	11.13	0.33	11.24	1.52	2.21
Sarno_valle	Sarno_valle	5881	Max WS	121.83	5.85	5.04	10.89	0.28	10.99	1.43	2.72
Sarno_valle	Sarno_valle	5861	Max WS	163.34	5.84	4.73	10.57	0.38	10.78	2.03	2.85
Sarno_valle	Sarno_valle	5812	Max WS	75.00	5.79	4.86	10.65	0.21	10.71	1.23	2.92
Sarno_valle	Sarno_valle	5744	Max WS	70.15	5.71	4.96	10.67	0.25	10.77	1.38	3.18
Sarno_valle	Sarno_valle	5662	Max WS	57.06	5.59	4.97	10.56	0.28	10.66	1.36	2.46
Sarno_valle	Sarno_valle	5604	Max WS	52.53	5.54	4.45	9.99	0.63	10.40	2.83	2.06
Sarno_valle	Sarno_valle	5552	Max WS	48.81	5.35	4.44	9.79	0.31	9.91	1.52	2.44
Sarno_valle	Sarno_valle	5478	Max WS	48.84	5.26	4.43	9.69	0.18	9.72	0.81	2.18
Sarno_valle	Sarno_valle	5415	Max WS	41.53	4.41	5.36	9.77	0.10	9.78	0.59	2.87
Sarno_valle	Sarno_valle	5359	Max WS	108.75	4.40	5.26	9.66	0.24	9.75	1.34	2.81
Sarno_valle	Sarno_valle	5279	Max WS	62.97	4.31	5.29	9.60	0.16	9.64	0.88	3.12
Sarno_valle	Sarno_valle	5251	Max WS	73.00	4.29	5.11	9.40	0.37	9.54	1.65	2.05
Sarno_valle	Sarno_valle	5222	Max WS	67.78	4.21	5.12	9.33	0.21	9.40	1.17	3.31
Sarno_valle	Sarno_valle	5206	Max WS	66.79	4.14	5.18	9.32	0.19	9.37	0.99	2.78
Sarno_valle	Sarno_valle	5199	Max WS	66.48	4.13	5.15	9.28	0.26	9.36	1.25	2.35
Sarno_valle	Sarno_valle	5145	Max WS	59.76	4.11	5.18	9.29	0.15	9.33	0.86	3.19
Sarno_valle	Sarno_valle	5137	Max WS	58.31	4.10	5.17	9.27	0.23	9.33	1.11	2.44
Sarno_valle	Sarno_valle	5131	Max WS	63.26	4.09	5.04	9.13	0.48	9.31	1.86	1.54
Sarno_valle	Sarno_valle	5107	Max WS	59.27	4.07	5.04	9.11	0.18	9.16	0.92	2.55
Sarno_valle	Sarno_valle	5074	Max WS	37.13	4.05	5.08	9.13	0.15	9.16	0.73	2.32

HEC-RAS Plan: SDF_REV1_TR100_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	5013	Max WS	42.76	4.01	5.05	9.06	0.17	9.10	0.81	2.29
Sarno_valle	Sarno_valle	4982	Max WS	68.12	3.99	4.96	8.95	0.20	9.00	1.00	2.66
Sarno_valle	Sarno_valle	4928	Max WS	87.43	3.87	4.62	8.49	0.49	8.74	2.23	2.11
Sarno_valle	Sarno_valle	4906	Max WS	88.04	3.74	4.64	8.38	0.43	8.57	1.96	2.10
Sarno_valle	Sarno_valle	4785	Max WS	28.89	3.44	4.82	8.26	0.11	8.27	0.52	2.36
Sarno_valle	Sarno_valle	4706	Max WS	45.69	3.38	4.76	8.14	0.19	8.18	0.87	2.22
Sarno_valle	Sarno_valle	4661	Max WS	54.11	3.38	4.71	8.09	0.19	8.13	0.87	2.07
Sarno_valle	Sarno_valle	4625	Max WS	58.99	3.28	4.73	8.01	0.22	8.07	1.09	2.40
Sarno_valle	Sarno_valle	4603	Max WS	55.64	3.27	4.76	8.03	0.17	8.06	0.78	2.04
Sarno_valle	Sarno_valle	4568	Max WS	58.00	3.25	4.78	8.03	0.15	8.06	0.77	2.71
Sarno_valle	Sarno_valle	4531	Max WS	45.91	3.22	4.84	8.06	0.10	8.07	0.56	2.66
Sarno_valle	Sarno_valle	4463	Max WS	53.97	3.20	4.76	7.96	0.19	8.00	0.78	1.73
Sarno_valle	Sarno_valle	4351	Max WS	57.08	3.18	4.46	7.64	0.33	7.75	1.41	1.90
Sarno_valle	Sarno_valle	4284	Max WS	44.81	3.06	4.51	7.57	0.20	7.61	0.82	1.64
Sarno_valle	Sarno_valle	4061	Max WS	41.95	2.68	4.65	7.33	0.19	7.37	0.84	2.06
Sarno_valle	Sarno_valle	3919	Max WS	40.10	2.48	4.70	7.18	0.19	7.23	0.92	2.30
Sarno_valle	Sarno_valle	3863	Max WS	42.75	2.38	4.76	7.14	0.14	7.17	0.72	2.59
Sarno_valle	Sarno_valle	3844	Max WS	42.57	2.37	4.77	7.14	0.12	7.16	0.63	2.67
Sarno_valle	Sarno_valle	3800	Max WS	36.78	2.24	4.93	7.17	0.09	7.19	0.52	3.16
Sarno_valle	Sarno_valle	3685	Max WS	28.23	2.10	4.99	7.09	0.11	7.10	0.53	2.45
Sarno_valle	Sarno_valle	3499	Max WS	37.32	1.84	5.18	7.02	0.12	7.04	0.60	2.64
Sarno_valle	Sarno_valle	3144	Max WS	52.48	1.41	5.39	6.80	0.18	6.84	0.89	2.51
Sarno_valle	Sarno_valle	3039	Max WS	57.64	1.34	5.41	6.75	0.14	6.79	0.80	3.33
Sarno_valle	Sarno_valle	3015	Max WS	55.77	1.32	5.35	6.67	0.25	6.75	1.21	2.49
Sarno_valle	Sarno_valle	2928	Max WS	51.50	1.27	5.30	6.57	0.20	6.63	1.01	2.53
Sarno_valle	Sarno_valle	2827	Max WS	50.03	1.14	5.09	6.23	0.37	6.37	1.66	2.03
Sarno_valle	Sarno_valle	2768	Max WS	49.64	1.00	5.16	6.16	0.21	6.21	1.01	2.34
Sarno_valle	Sarno_valle	2752	Max WS	49.55	0.96	5.12	6.08	0.32	6.18	1.44	2.12
Sarno_valle	Sarno_valle	2705	Max WS	44.78	0.88	5.13	6.01	0.23	6.07	1.01	1.89
Sarno_valle	Sarno_valle	2514	Max WS	46.06	0.70	5.02	5.72	0.18	5.75	0.85	2.22
Sarno_valle	Sarno_valle	2387	Max WS	23.77	0.52	5.19	5.71	0.07	5.72	0.39	3.16
Sarno_valle	Sarno_valle	2285	Max WS	51.57	0.40	5.11	5.51	0.25	5.58	1.10	2.02

HEC-RAS Plan: SDF_REV1_TR100_VAPI Profile: Max WS (Continued)

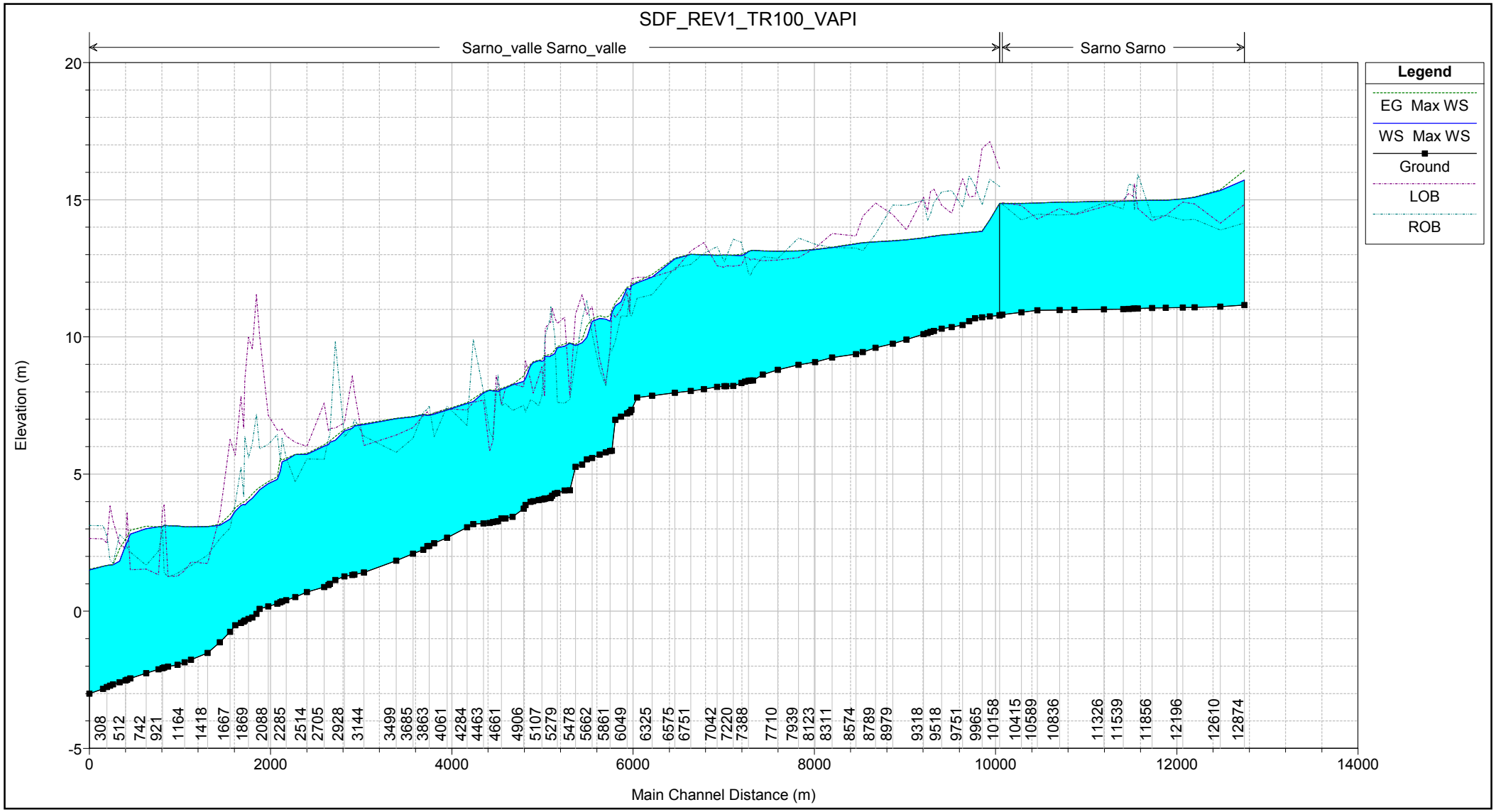
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	2240	Max WS	51.58	0.36	5.08	5.44	0.22	5.51	1.12	2.68
Sarno_valle	Sarno_valle	2220	Max WS	51.58	0.33	4.77	5.10	0.73	5.57	3.02	1.75
Sarno_valle	Sarno_valle	2189	Max WS	51.58	0.28	4.53	4.81	0.27	4.90	1.33	2.39
Sarno_valle	Sarno_valle	2088	Max WS	51.58	0.18	4.47	4.65	0.24	4.72	1.19	2.50
Sarno_valle	Sarno_valle	1993	Max WS	51.57	0.09	4.34	4.43	0.30	4.52	1.34	2.04
Sarno_valle	Sarno_valle	1957	Max WS	51.57	-0.10	4.38	4.28	0.35	4.43	1.67	2.33
Sarno_valle	Sarno_valle	1913	Max WS	51.57	-0.23	4.35	4.12	0.40	4.27	1.73	1.92
Sarno_valle	Sarno_valle	1869	Max WS	51.57	-0.28	4.29	4.01	0.32	4.12	1.49	2.21
Sarno_valle	Sarno_valle	1829	Max WS	51.56	-0.34	4.21	3.87	0.34	4.01	1.67	2.42
Sarno_valle	Sarno_valle	1816	Max WS	51.56	-0.38	4.28	3.90	0.25	3.98	1.28	2.61
Sarno_valle	Sarno_valle	1787	Max WS	51.40	-0.43	4.29	3.86	0.24	3.93	1.22	2.71
Sarno_valle	Sarno_valle	1724	Max WS	51.21	-0.51	4.16	3.65	0.36	3.77	1.58	1.97
Sarno_valle	Sarno_valle	1667	Max WS	47.82	-0.75	4.11	3.36	0.40	3.52	1.79	2.09
Sarno_valle	Sarno_valle	1553	Max WS	33.45	-1.13	4.26	3.13	0.24	3.18	0.94	1.52
Sarno_valle	Sarno_valle	1418	Max WS	7.32	-1.52	4.60	3.08	0.03	3.08	0.13	2.14
Sarno_valle	Sarno_valle	1235	Max WS	14.55	-1.77	4.84	3.07	0.05	3.08	0.26	2.67
Sarno_valle	Sarno_valle	1164	Max WS	8.76	-1.86	4.93	3.07	0.05	3.08	0.23	2.38
Sarno_valle	Sarno_valle	1088	Max WS	-3.16	-1.95	5.06	3.11	0.01	3.11	-0.07	2.90
Sarno_valle	Sarno_valle	981	Max WS	-14.84	-2.02	5.14	3.12	0.03	3.12	-0.18	3.29
Sarno_valle	Sarno_valle	940	Max WS	7.14	-2.05	5.18	3.13	0.03	3.14	0.15	2.66
Sarno_valle	Sarno_valle	921	Max WS	-8.68	-2.08	5.16	3.08	0.04	3.08	-0.20	2.21
Sarno_valle	Sarno_valle	877	Max WS	-22.94	-2.12	5.20	3.08	0.05	3.08	-0.26	2.81
Sarno_valle	Sarno_valle	742	Max WS	-61.83	-2.26	5.27	3.01	0.25	3.10	-1.31	2.77
Sarno_valle	Sarno_valle	564	Max WS	69.71	-2.45	5.26	2.81	0.38	2.95	1.68	1.95
Sarno_valle	Sarno_valle	531	Max WS	94.52	-2.50	5.01	2.51	0.42	2.71	1.98	2.26
Sarno_valle	Sarno_valle	512	Max WS	96.30	-2.52	4.93	2.41	0.42	2.63	2.08	2.45
Sarno_valle	Sarno_valle	447	Max WS	117.53	-2.59	4.42	1.83	0.49	2.28	2.99	3.77
Sarno_valle	Sarno_valle	375	Max WS	-31.24	-2.66	4.35	1.69	0.11	1.71	-0.56	2.48
Sarno_valle	Sarno_valle	343	Max WS	-31.52	-2.71	4.39	1.68	0.07	1.69	-0.36	2.91
Sarno_valle	Sarno_valle	308	Max WS	-38.07	-2.76	4.42	1.66	0.06	1.67	-0.37	3.70
Sarno_valle	Sarno_valle	264	Max WS	-39.60	-2.83	4.46	1.63	0.07	1.64	-0.39	3.55
Sarno_valle	Sarno_valle	114	Max WS	-91.03	-3.00	4.50	1.50	0.15	1.54	-0.86	3.18

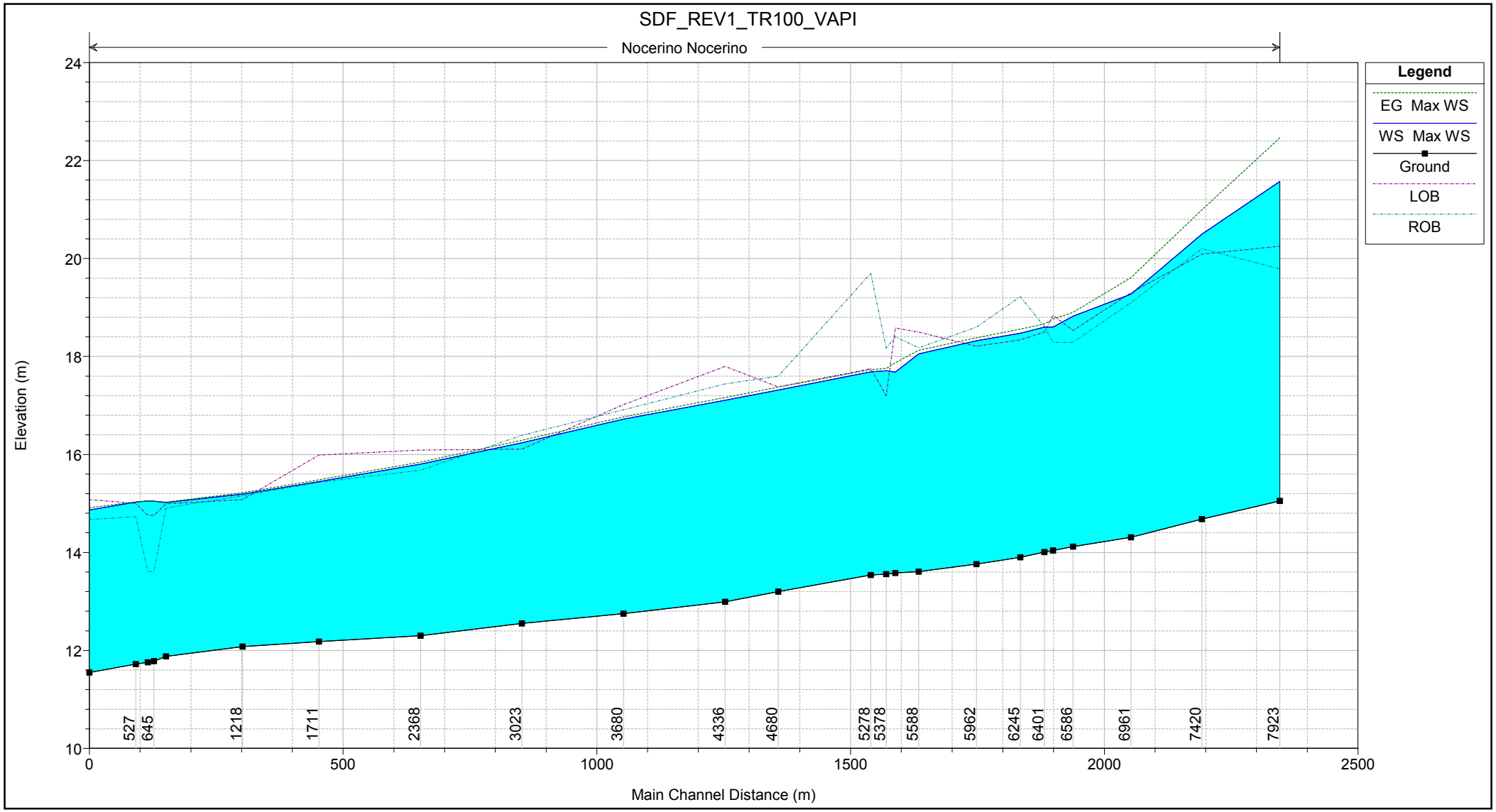
HEC-RAS Plan: SDF_REV1_TR100_VAPI Profile: Max WS (Continued)

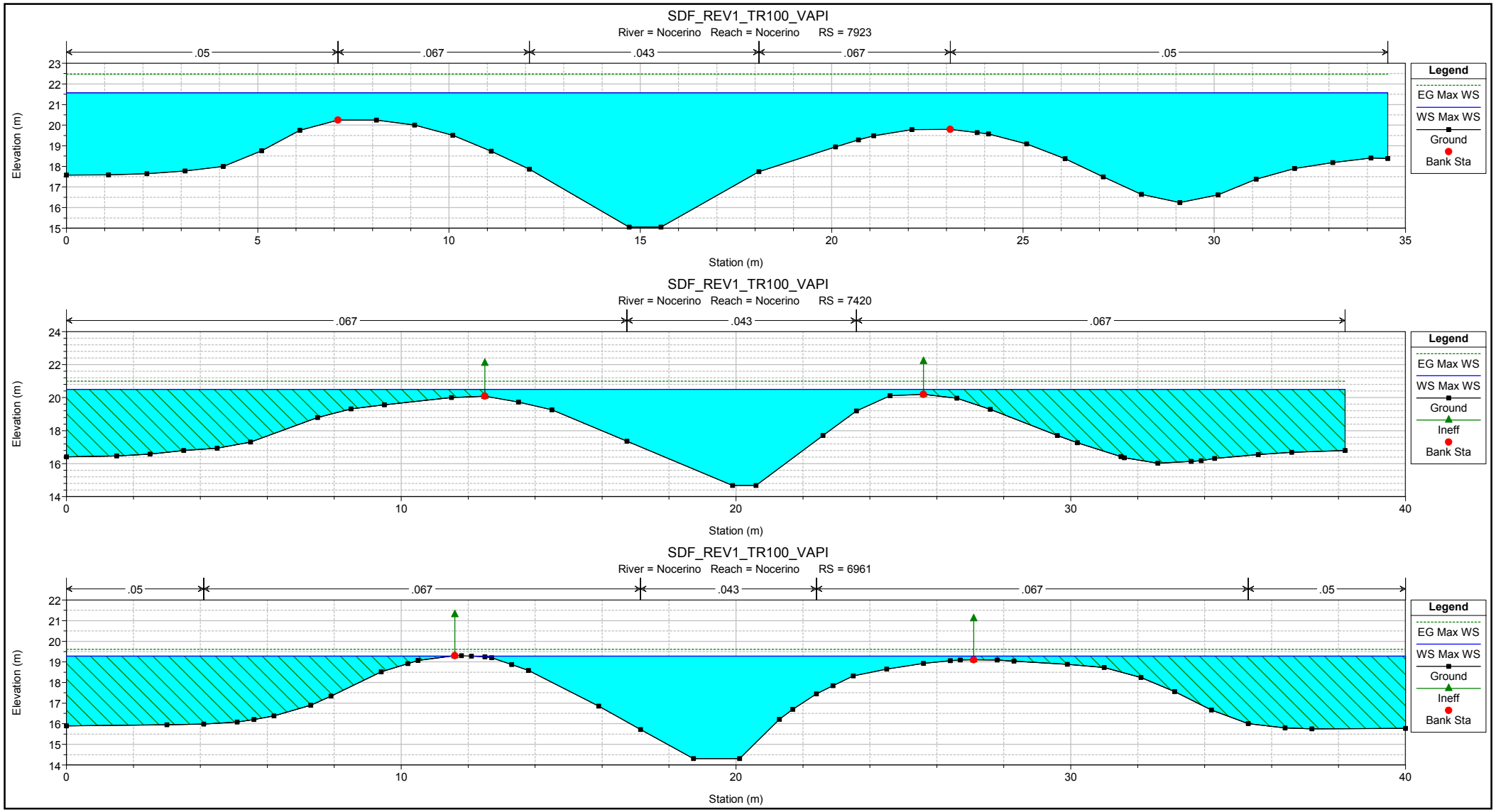
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno	Sarno	12874	Max WS	271.05	11.16	4.55	15.72	0.55	16.07	2.87	2.09
Sarno	Sarno	12873		Lat Struct							
Sarno	Sarno	12872		Lat Struct							
Sarno	Sarno	12610	Max WS	50.73	11.10	4.23	15.33	0.18	15.37	0.85	2.39
Sarno	Sarno	12325	Max WS	35.58	11.08	4.00	15.08	0.14	15.11	0.66	2.23
Sarno	Sarno	12196	Max WS	39.10	11.07	3.96	15.03	0.11	15.04	0.54	2.66
Sarno	Sarno	12006	Max WS	33.44	11.06	3.92	14.98	0.09	14.99	0.42	2.32
Sarno	Sarno	11856	Max WS	13.66	11.05	3.93	14.98	0.06	14.99	0.25	2.08
Sarno	Sarno	11698	Max WS	17.08	11.04	3.93	14.97	0.06	14.97	0.27	2.41
Sarno	Sarno	11660	Max WS	16.53	11.03	3.92	14.96	0.08	14.96	0.32	1.77
Sarno	Sarno	11647	Max WS	16.06	11.02	3.93	14.96	0.09	14.96	0.37	1.75
Sarno	Sarno	11598	Max WS	16.02	11.02	3.93	14.95	0.05	14.95	0.26	2.71
Sarno	Sarno	11539	Max WS	14.61	11.01	3.94	14.95	0.04	14.95	0.20	2.15
Sarno	Sarno	11326	Max WS	6.21	11.00	3.95	14.95	0.02	14.95	0.09	2.18
Sarno	Sarno	11000	Max WS	30.71	10.99	3.93	14.92	0.07	14.92	0.36	2.45
Sarno	Sarno	10836	Max WS	14.96	10.98	3.93	14.91	0.05	14.92	0.22	2.22
Sarno	Sarno	10589	Max WS	34.86	10.97	3.91	14.88	0.08	14.88	0.39	2.48
Sarno	Sarno	10415	Max WS	21.68	10.90	3.96	14.86	0.09	14.87	0.38	1.63
Sarno	Sarno	10205	Max WS	-5.76	10.81	4.06	14.87	0.02	14.87	-0.10	1.77

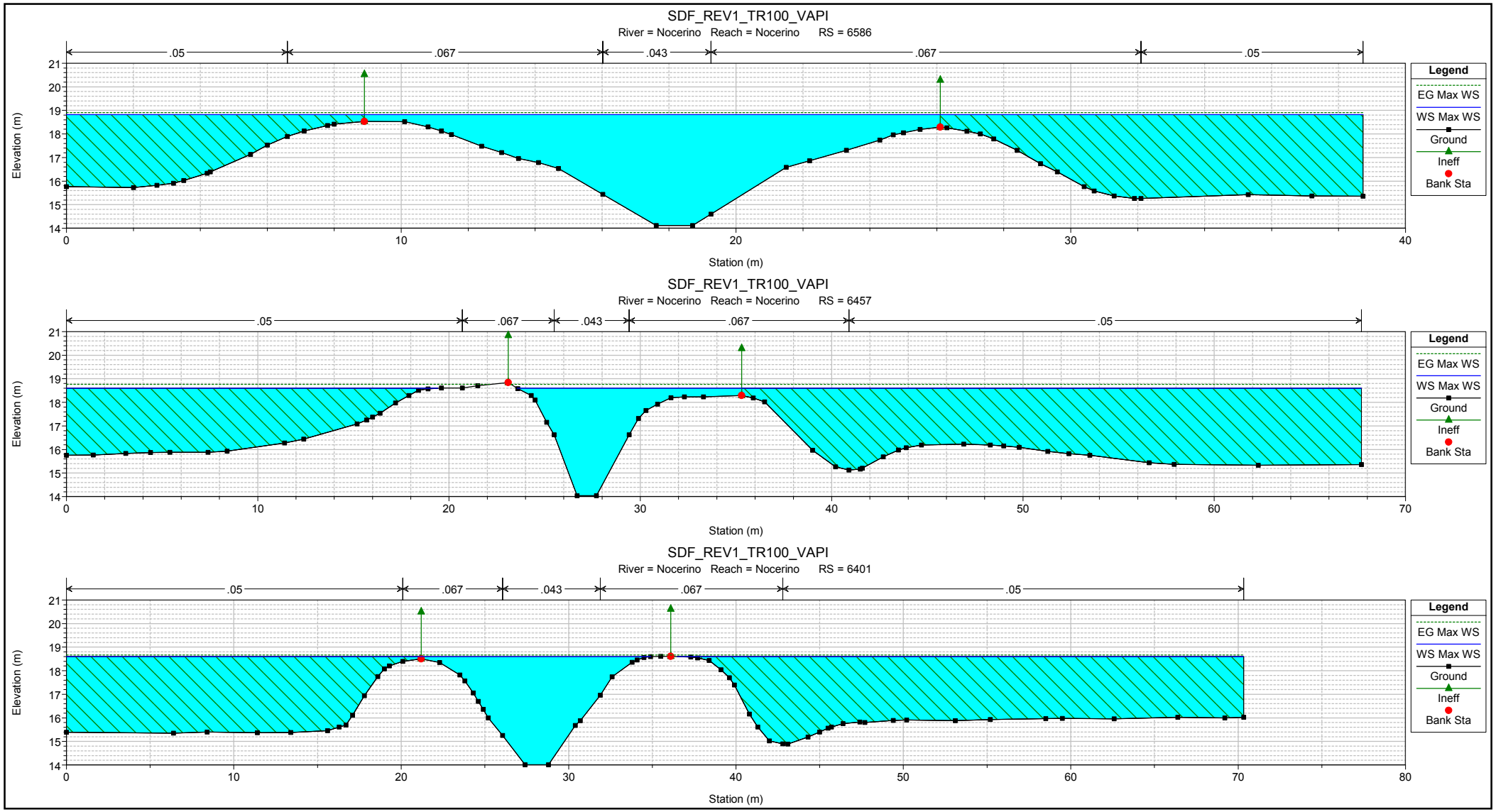
HEC-RAS Plan: SDF_REV1_TR100_VAPI River: Nocerino Reach: Nocerino Profile: Max WS

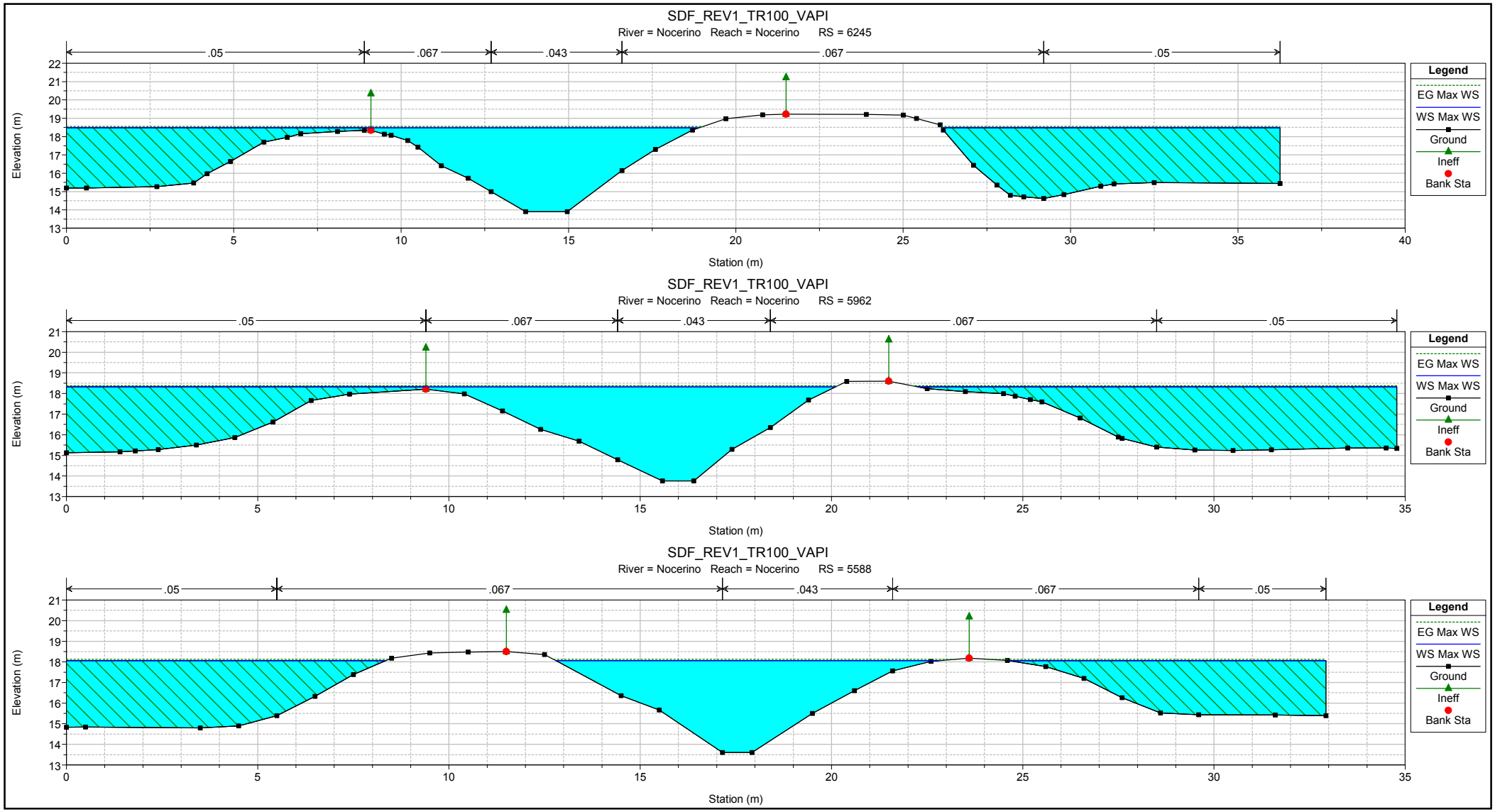
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
			(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Nocerino	7923	Max WS	498.67	15.05	6.52	21.57	0.71	22.47	4.11	3.47
Nocerino	7922		Lat Struct							
Nocerino	7921		Lat Struct							
Nocerino	7420	Max WS	114.19	14.68	5.82	20.50	0.60	20.99	3.12	2.79
Nocerino	6961	Max WS	81.44	14.31	4.97	19.28	0.56	19.61	2.57	2.12
Nocerino	6586	Max WS	47.08	14.12	4.70	18.82	0.27	18.90	1.26	2.17
Nocerino	6457	Max WS	33.82	14.04	4.56	18.60	0.45	18.76	1.78	1.62
Nocerino	6401	Max WS	32.43	14.01	4.59	18.60	0.25	18.66	1.12	2.12
Nocerino	6245	Max WS	30.34	13.90	4.58	18.48	0.26	18.56	1.27	2.43
Nocerino	5962	Max WS	26.25	13.76	4.56	18.32	0.23	18.38	1.08	2.28
Nocerino	5588	Max WS	25.83	13.61	4.44	18.05	0.26	18.13	1.20	2.15
Nocerino	5437	Max WS	25.81	13.58	4.10	17.68	0.45	17.87	1.92	1.90
Nocerino	5378	Max WS	24.72	13.56	4.15	17.71	0.21	17.76	0.97	2.24
Nocerino	5278	Max WS	20.29	13.54	4.15	17.69	0.22	17.73	0.97	2.06
Nocerino	4680	Max WS	20.35	13.20	4.12	17.32	0.25	17.38	1.08	1.85
Nocerino	4336	Max WS	20.14	12.99	4.12	17.11	0.22	17.16	1.04	2.33
Nocerino	3680	Max WS	19.97	12.75	3.97	16.72	0.23	16.77	0.96	1.73
Nocerino	3023	Max WS	18.85	12.55	3.69	16.24	0.25	16.29	0.99	1.56
Nocerino	2368	Max WS	16.54	12.30	3.50	15.80	0.24	15.85	0.91	1.52
Nocerino	1711	Max WS	13.27	12.18	3.27	15.45	0.24	15.48	0.85	1.30
Nocerino	1218	Max WS	12.38	12.08	3.11	15.19	0.21	15.22	0.72	1.20
Nocerino	723	Max WS	8.96	11.88	3.22	15.02	0.13	15.03	0.47	1.36
Nocerino	645	Max WS	7.66	11.78	3.27	15.05	0.05	15.05	0.24	1.99
Nocerino	605	Max WS	5.98	11.76	3.29	15.05	0.04	15.05	0.18	2.05
Nocerino	527	Max WS	3.05	11.72	3.31	15.03	0.05	15.03	0.17	1.18
Nocerino	227	Max WS	18.11	11.55	3.32	14.87	0.25	14.91	0.95	1.45

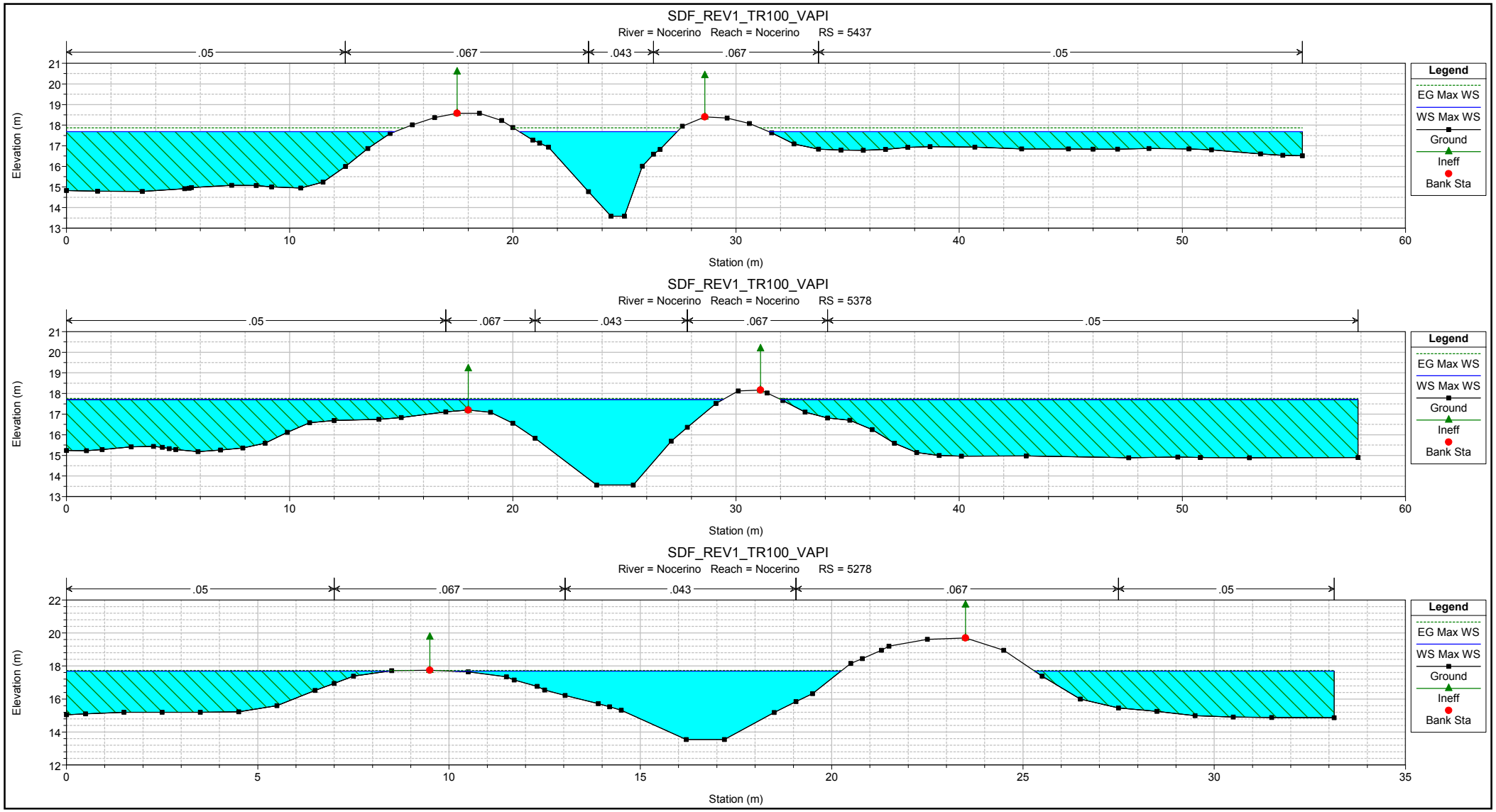

SDF_REV1_TR100_VAPI
Sarno_valle Sarno_valle
Sarno Sarno
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
20
15
10
5
0
-5
0
2000
4000
6000
8000
10000
12000
14000
308
512
742
921
1164
1418
1667
1869
2088
2285
2514
2705
2928
3144
3499
3685
3863
4061
4284
4463
4661
4906
5107
5279
5478
5662
5861
6049
6325
6575
6751
7042
7220
7388
7710
7939
8123
8311
8574
8789
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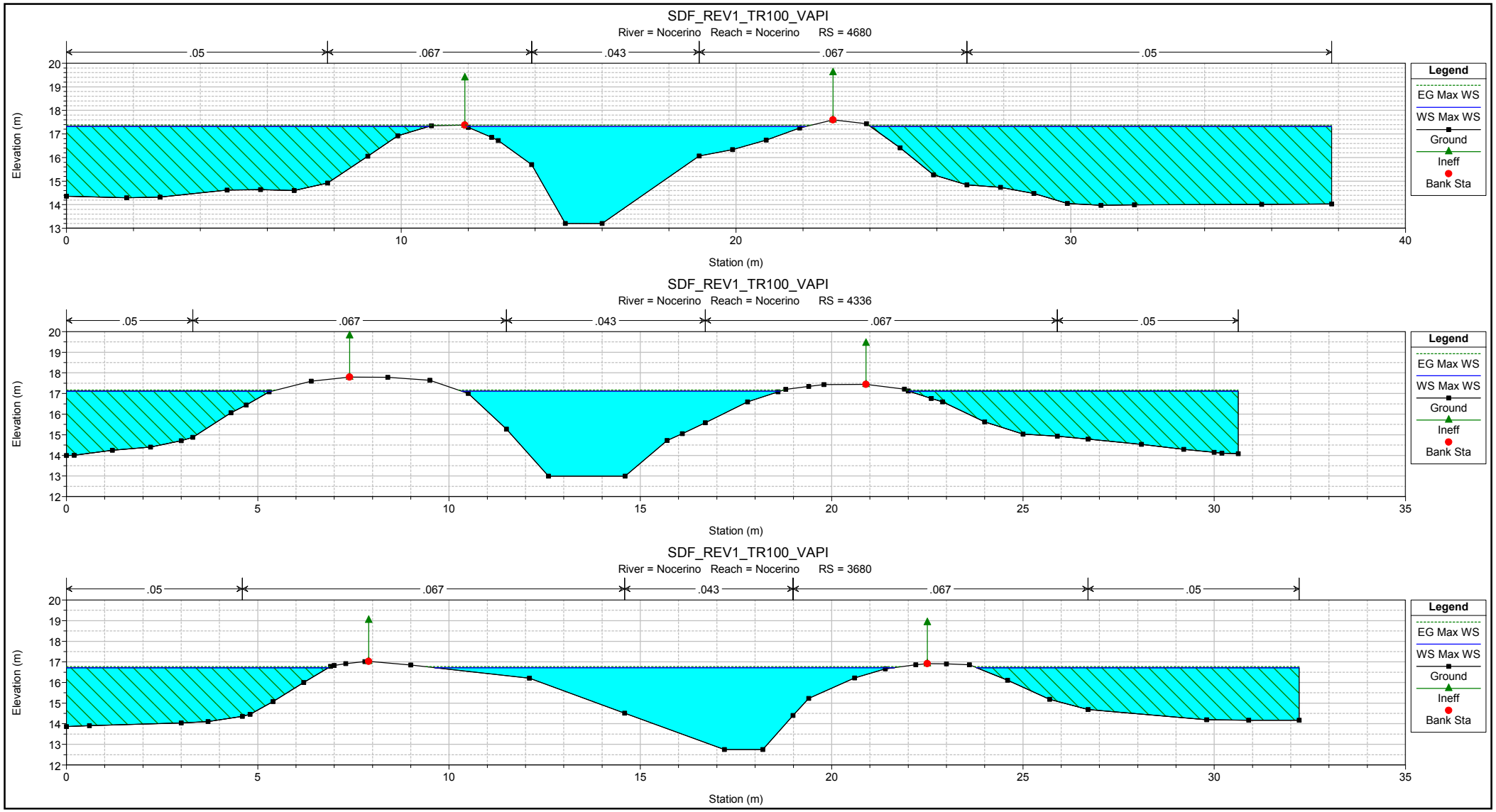

SDF_REV1_TR100_VAPI
Nocerino Nocerino
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
24
22
20
18
16
14
12
10
0
500
1000
1500
2000
2500
527
645
1218
1711
2368
3023
3680
4336
4680
5278
5378
5588
5962
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6586
6961
7420
7923

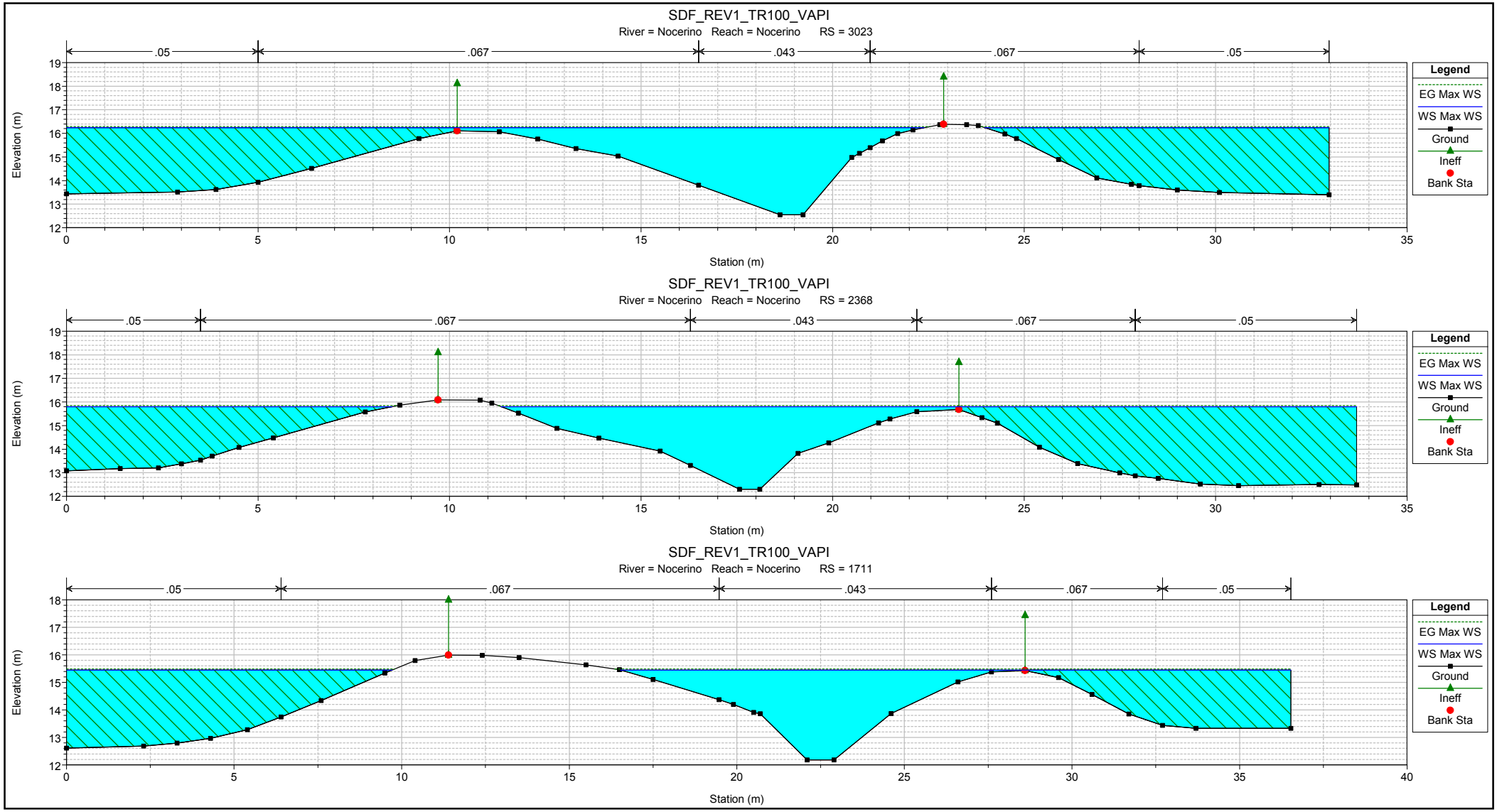

SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 7923
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 7420
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6961
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

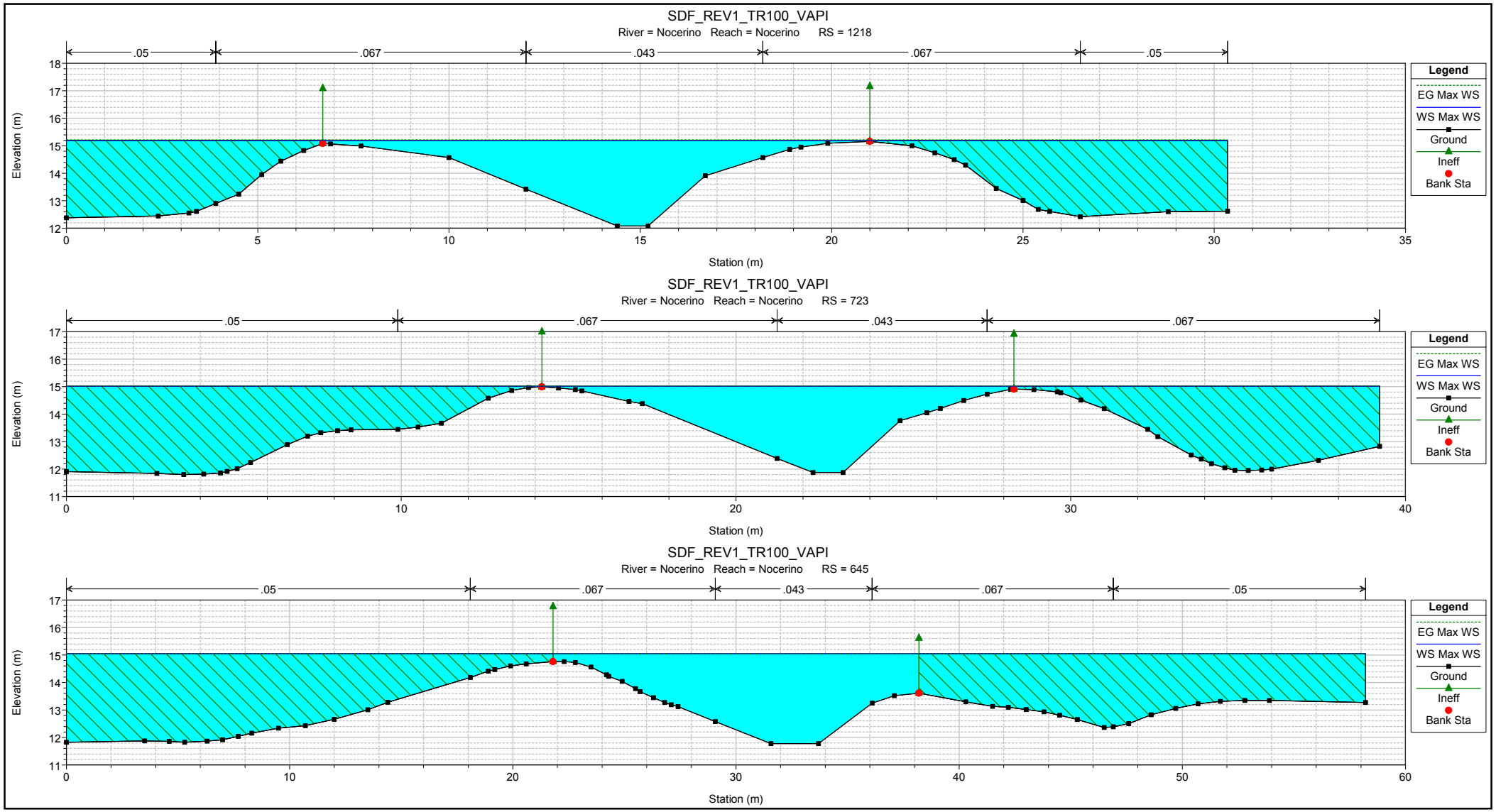

SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6586
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6457
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6401
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

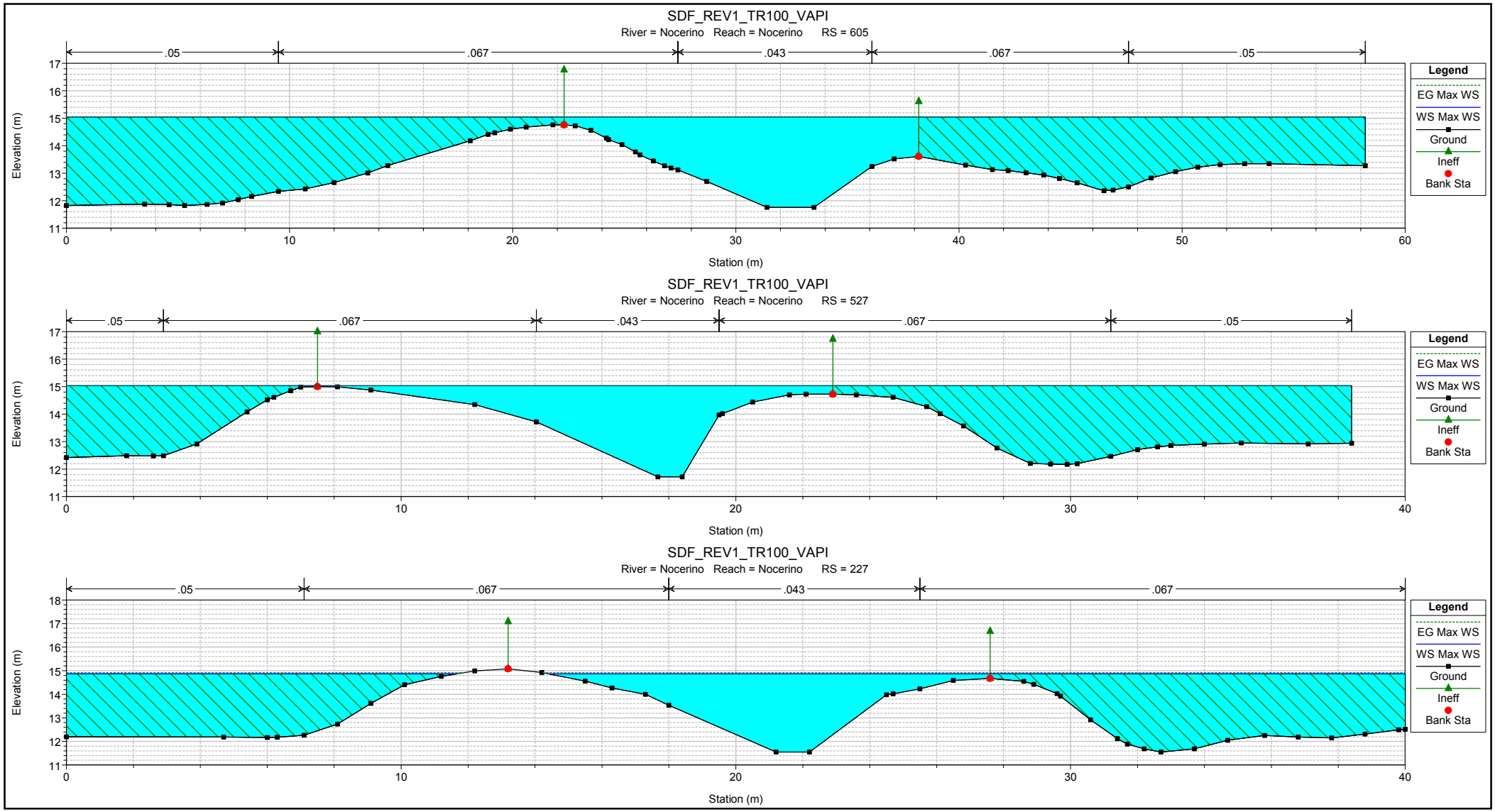

SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6245
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5962
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5588
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

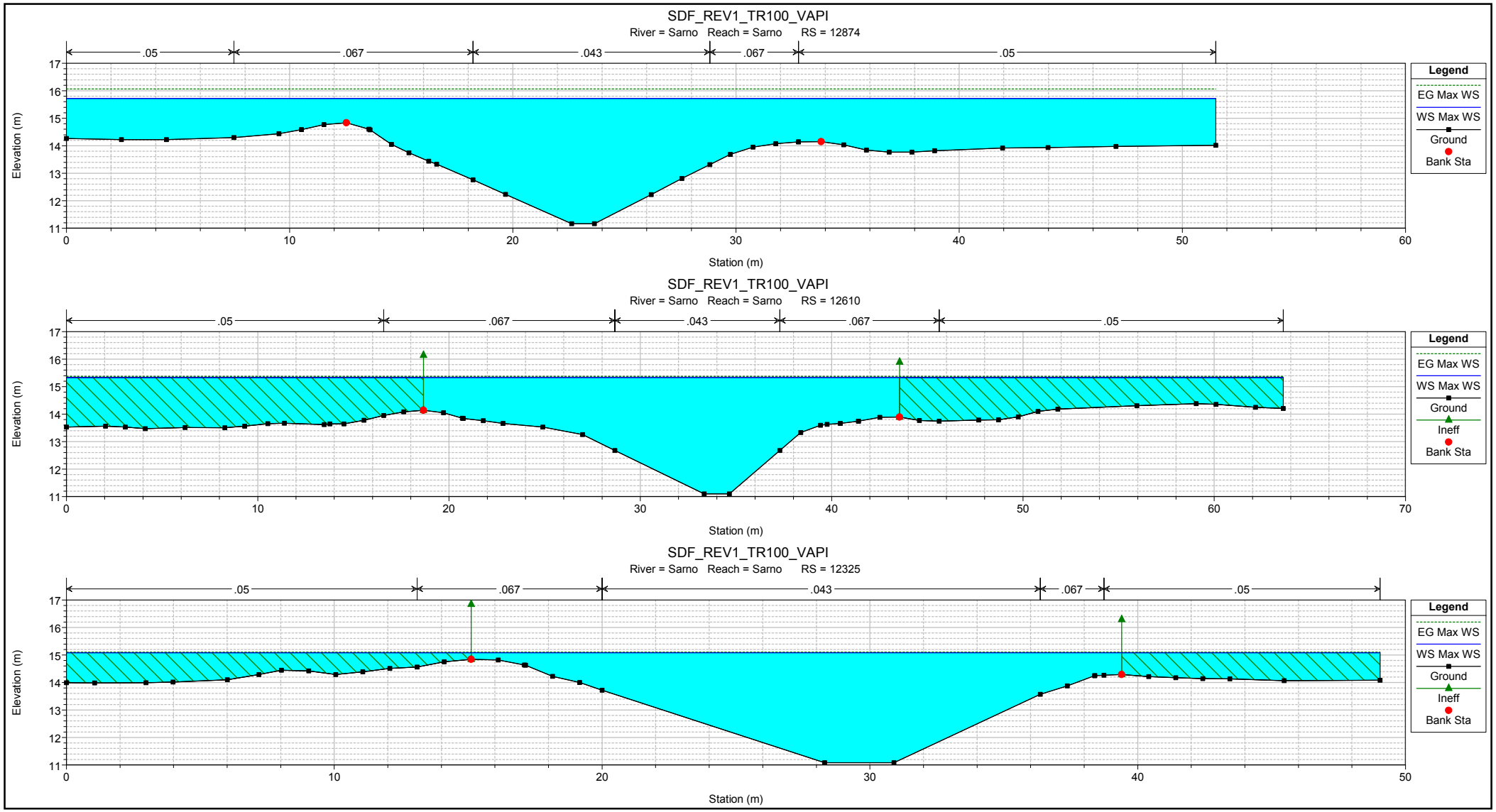

SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5378
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5278
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

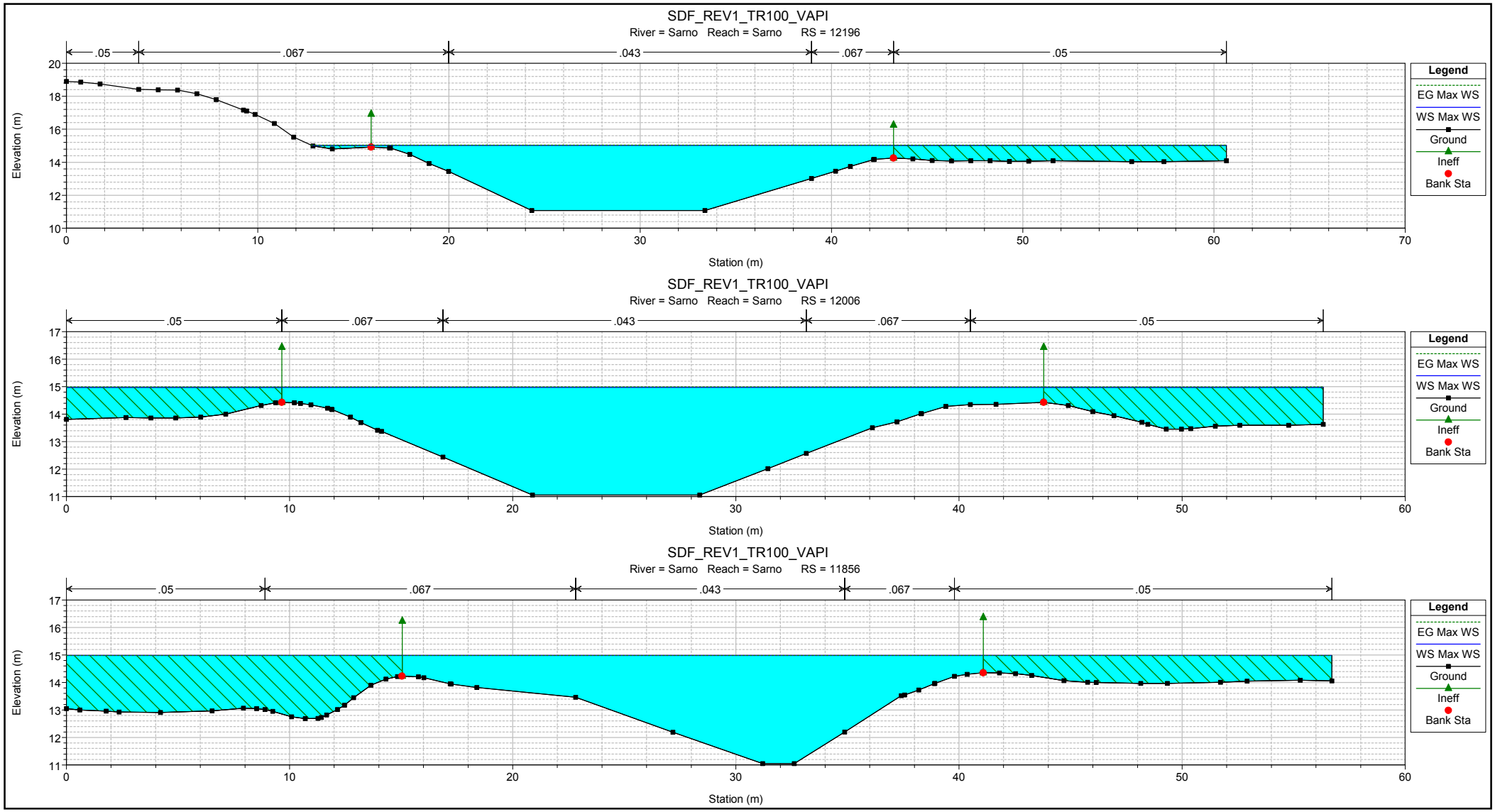

SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 4680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 4336
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 3680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

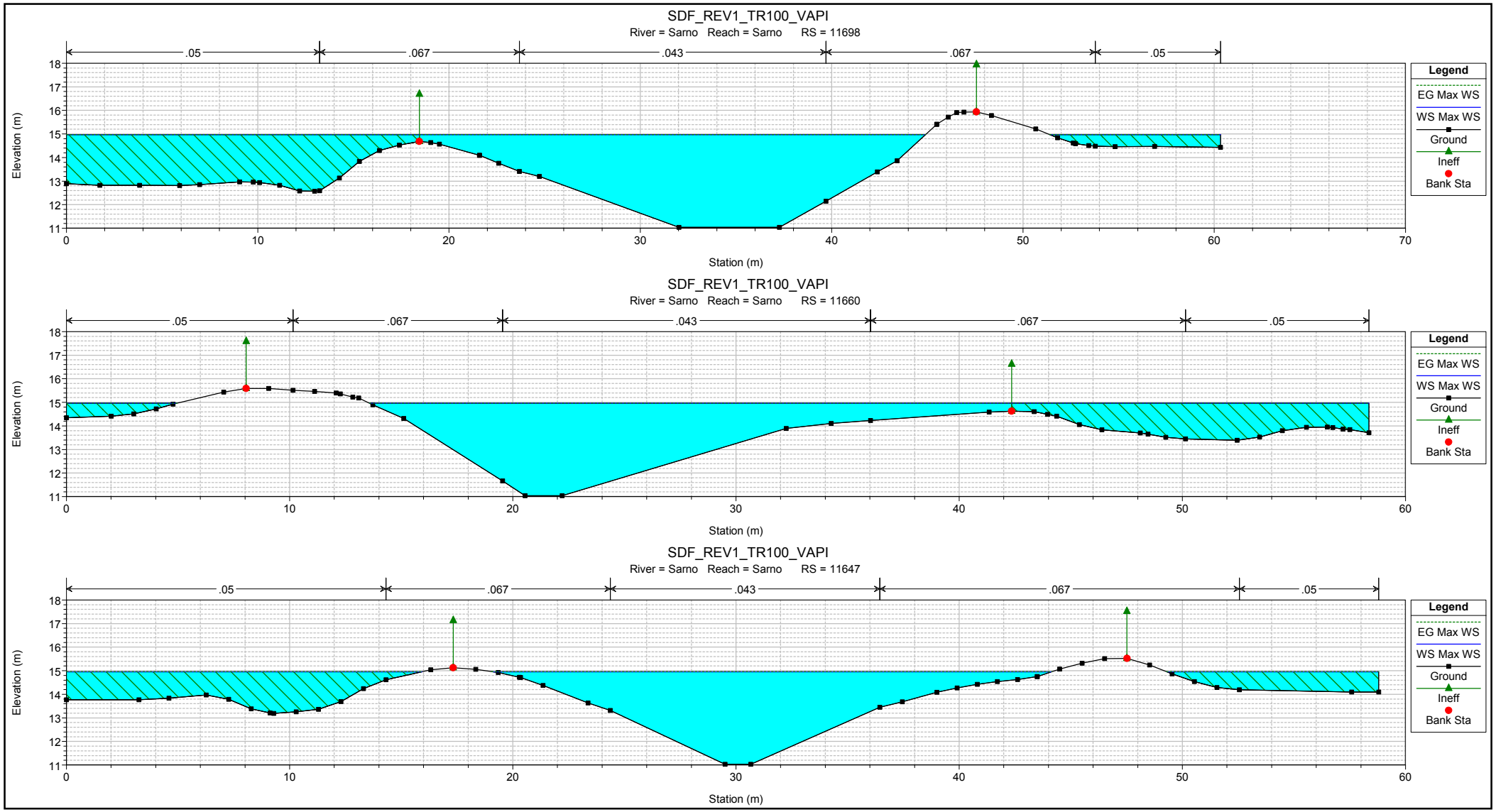

SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 3023
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 2368
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 1711
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

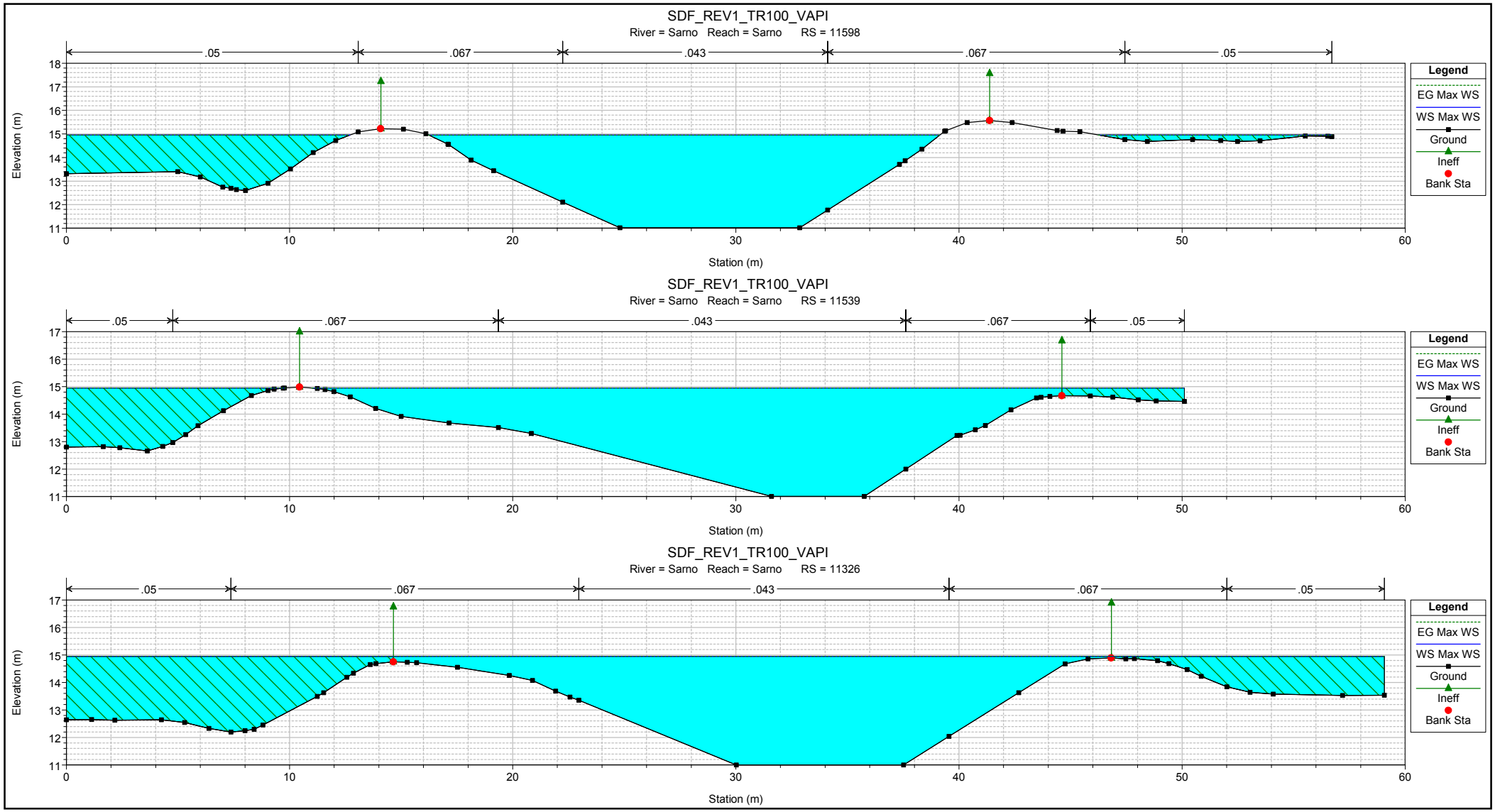

SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 1218
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 723
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 645
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

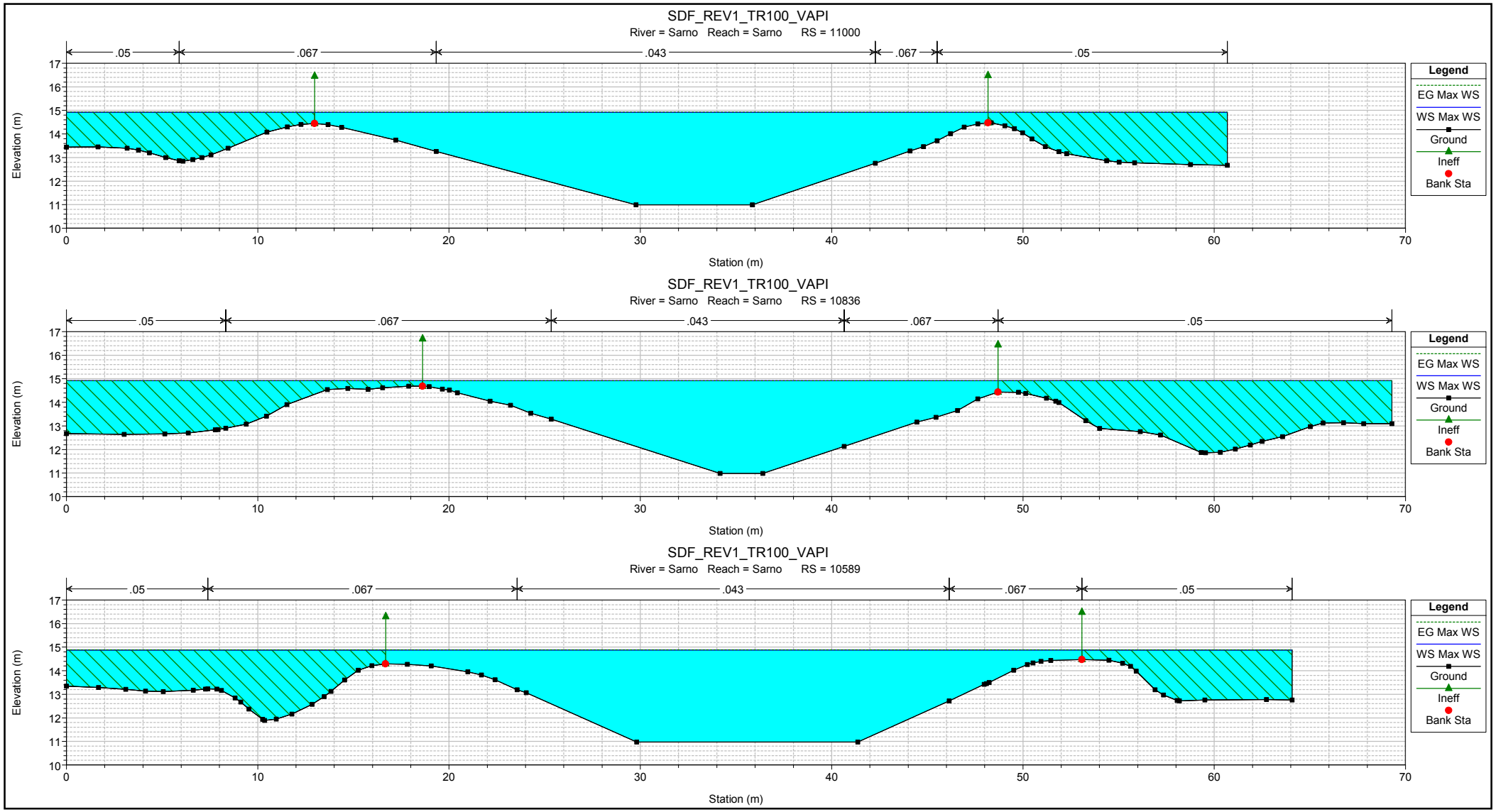

SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 605
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 527
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 227
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

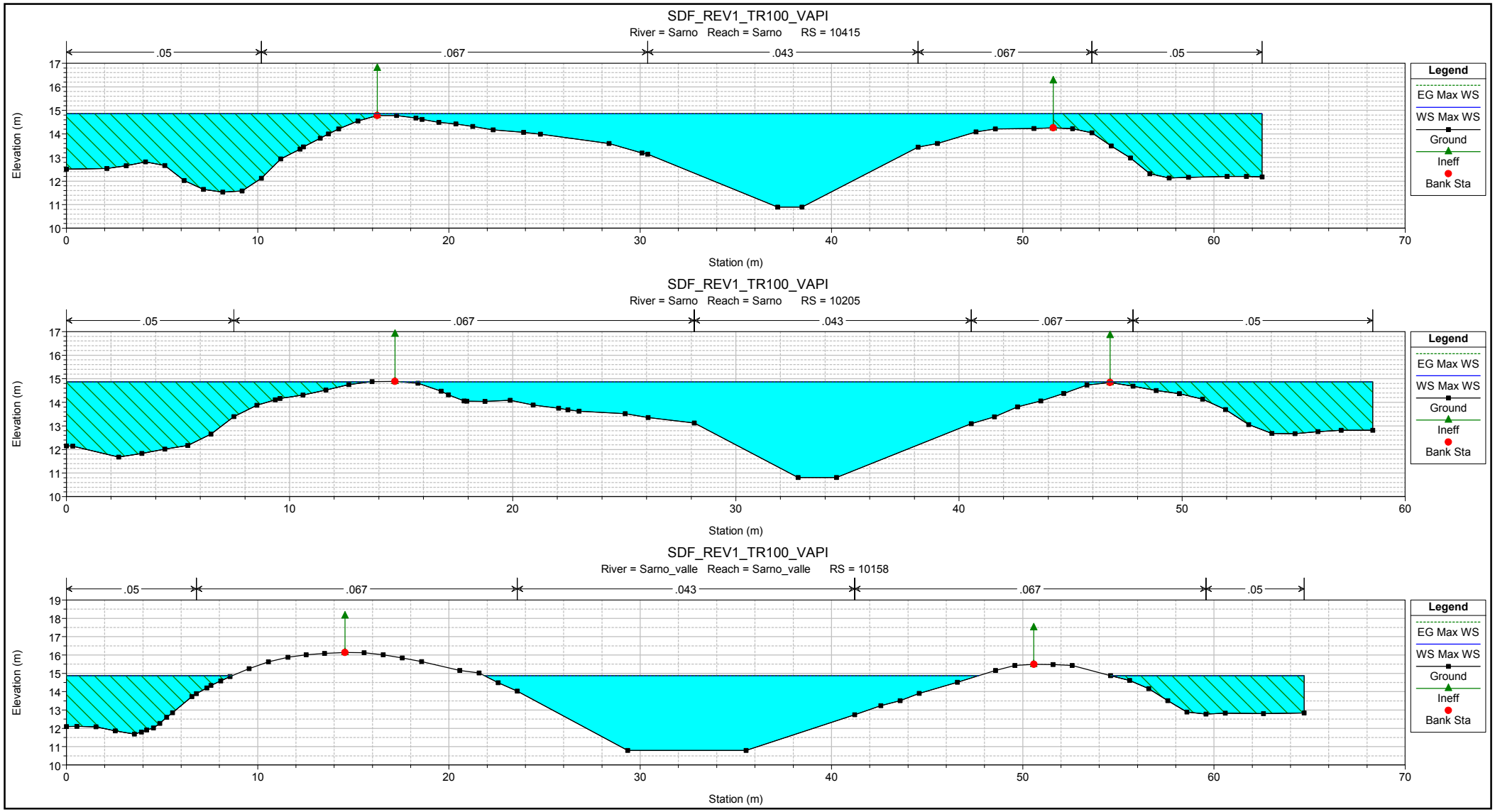

SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12874
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12610
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12325
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

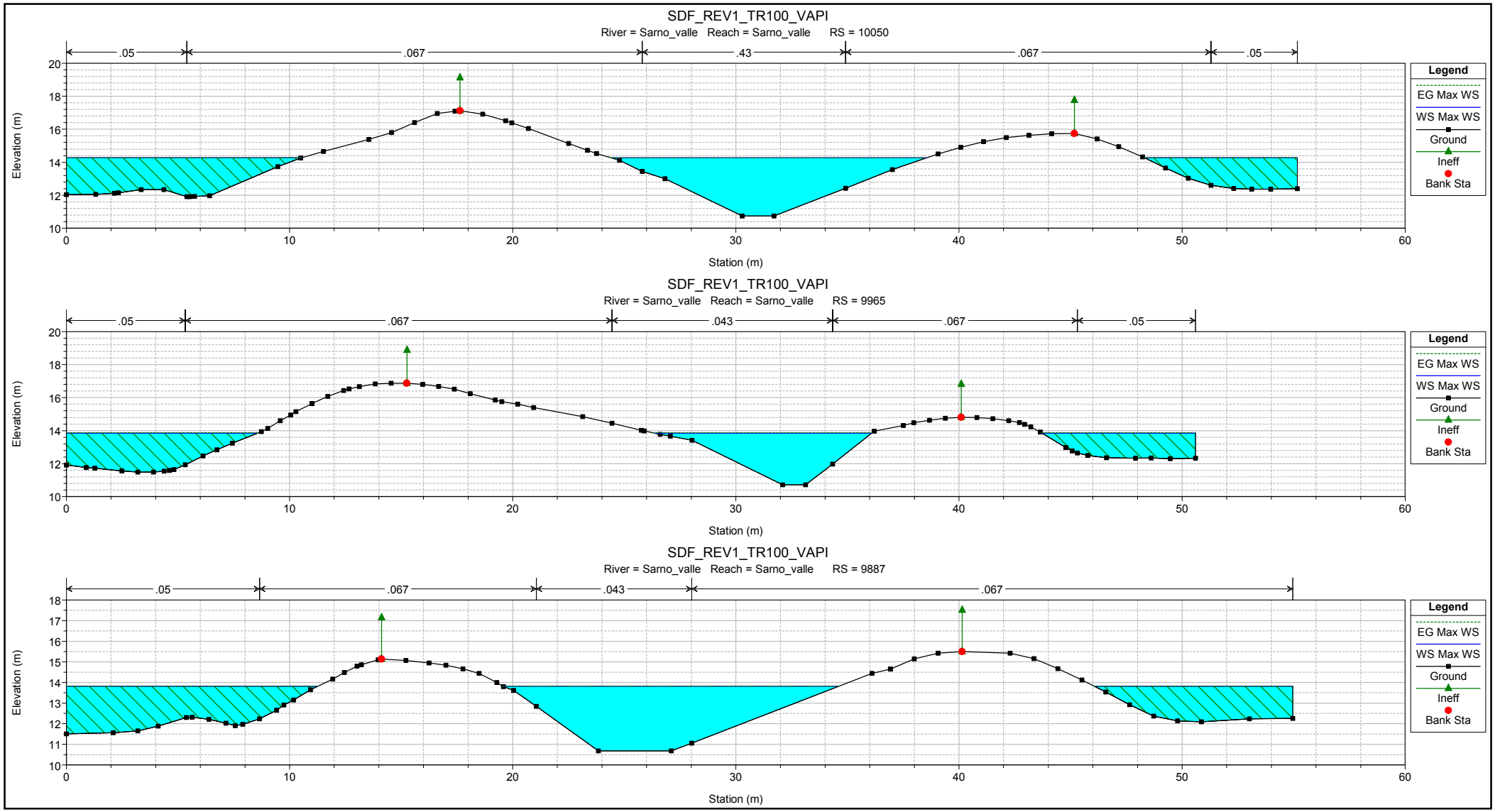

SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12196
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12006
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11856
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

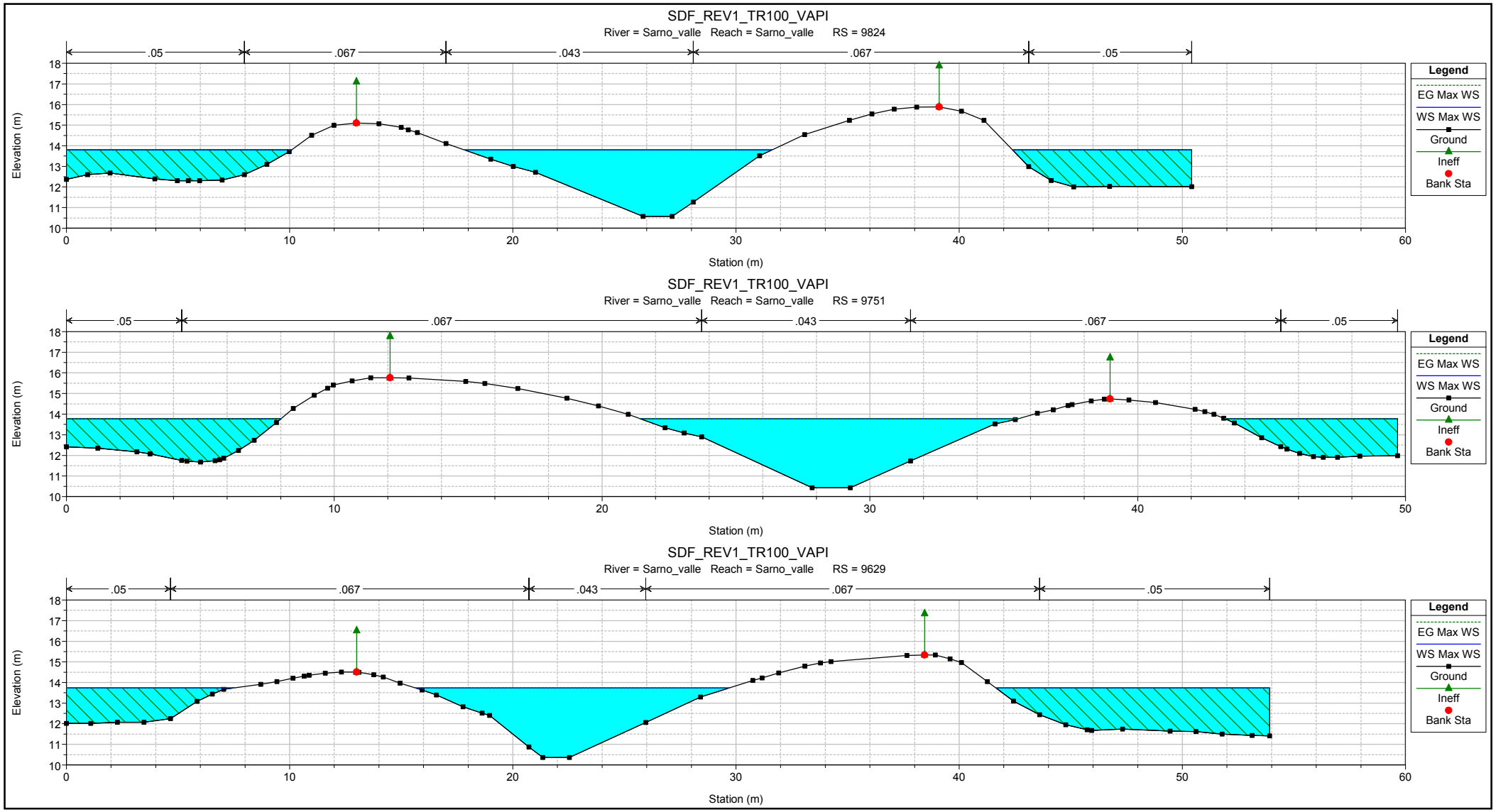

SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11698
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11660
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11647
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

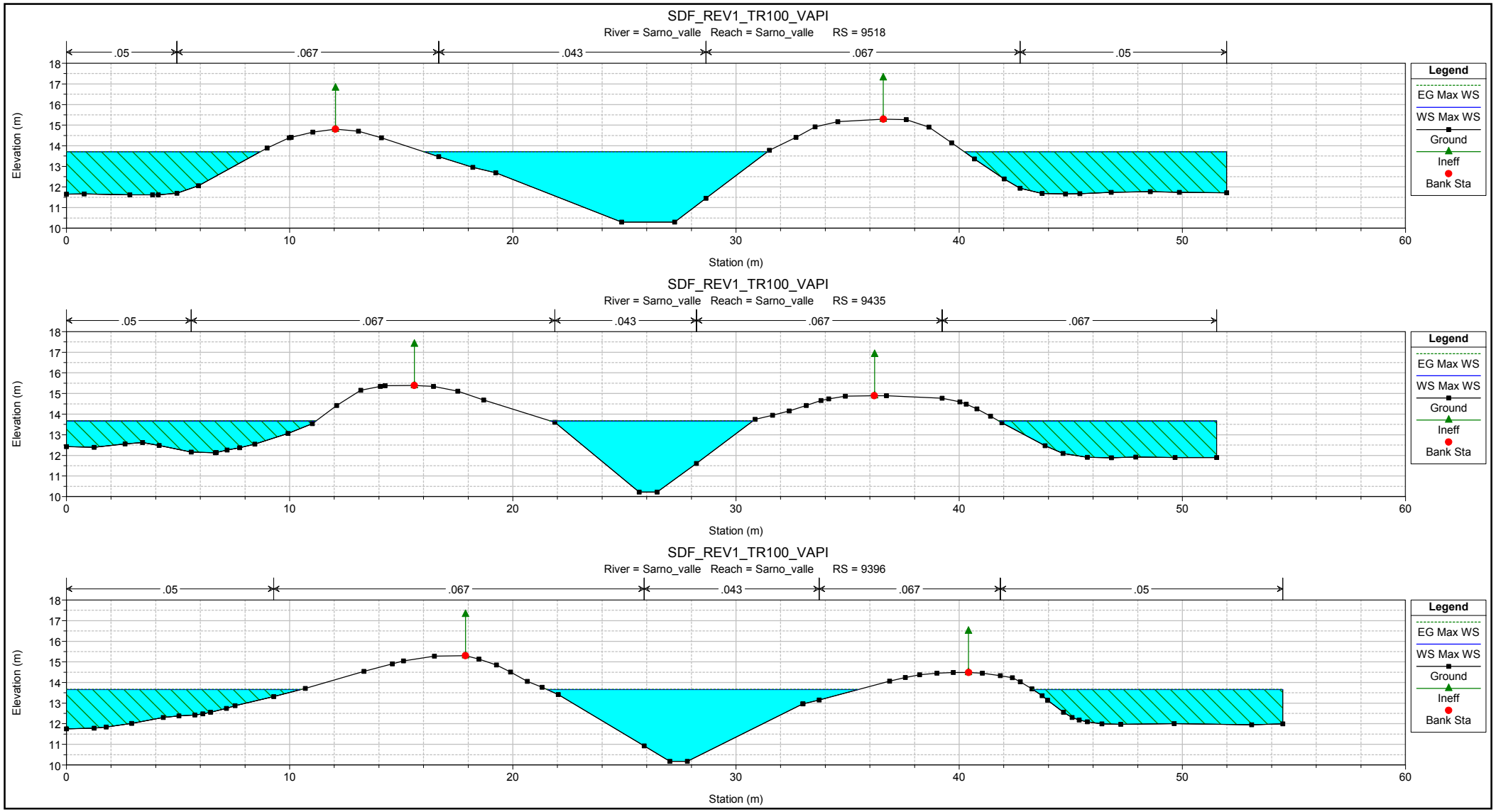

SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11598
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11539
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11326
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

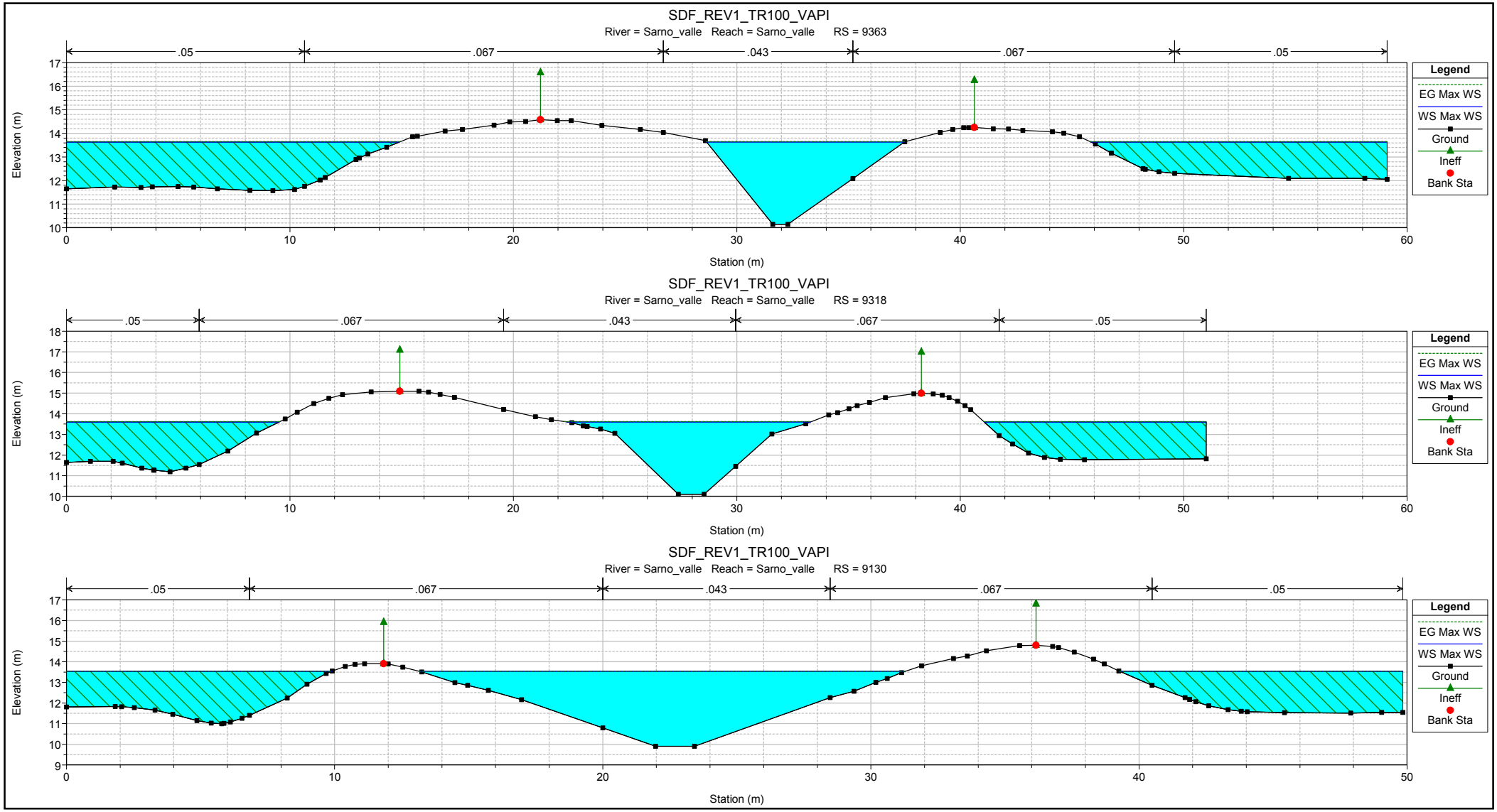

SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11000
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 10836
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 10589
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

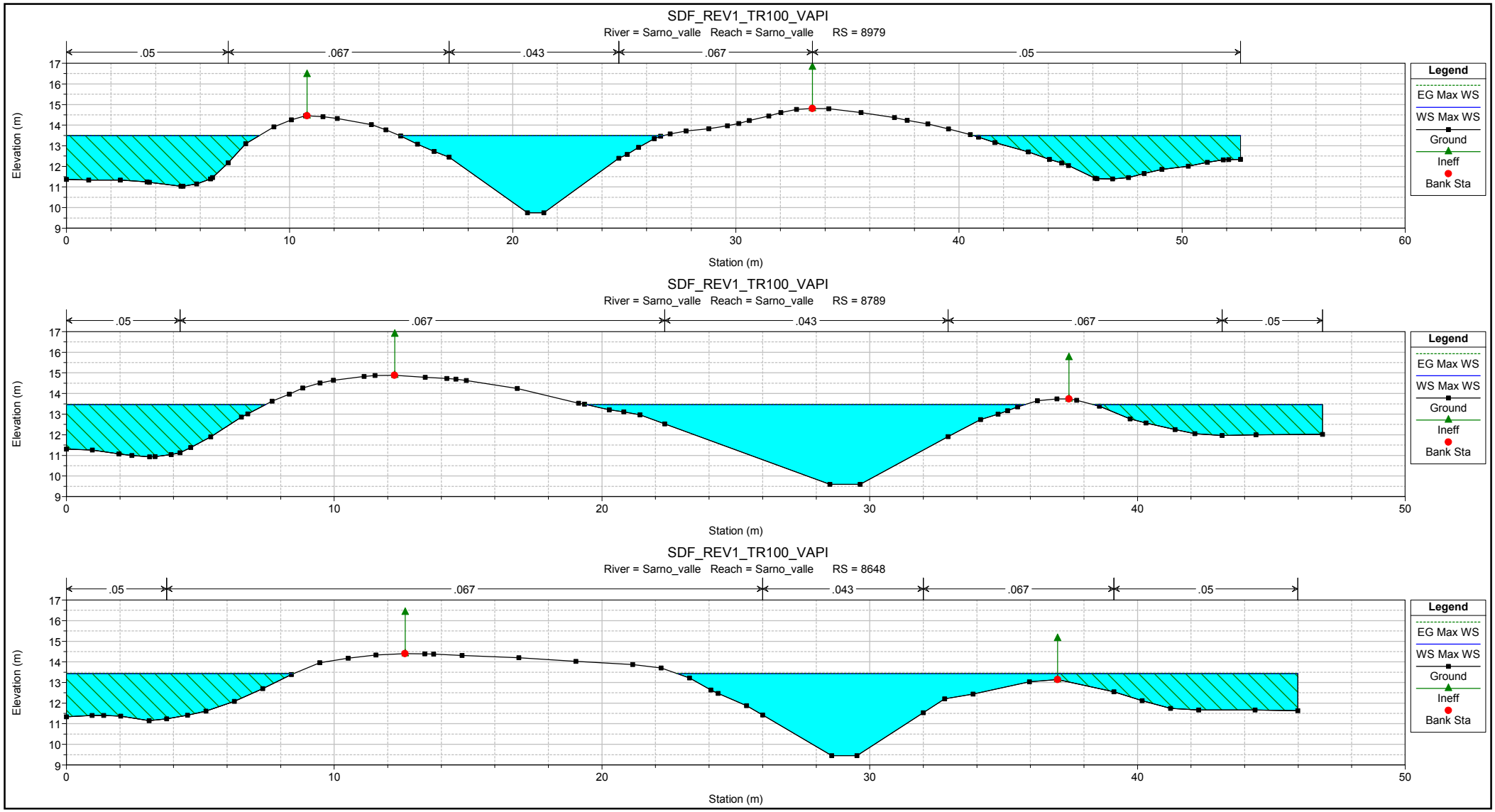

SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 10415
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 10205
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10158
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

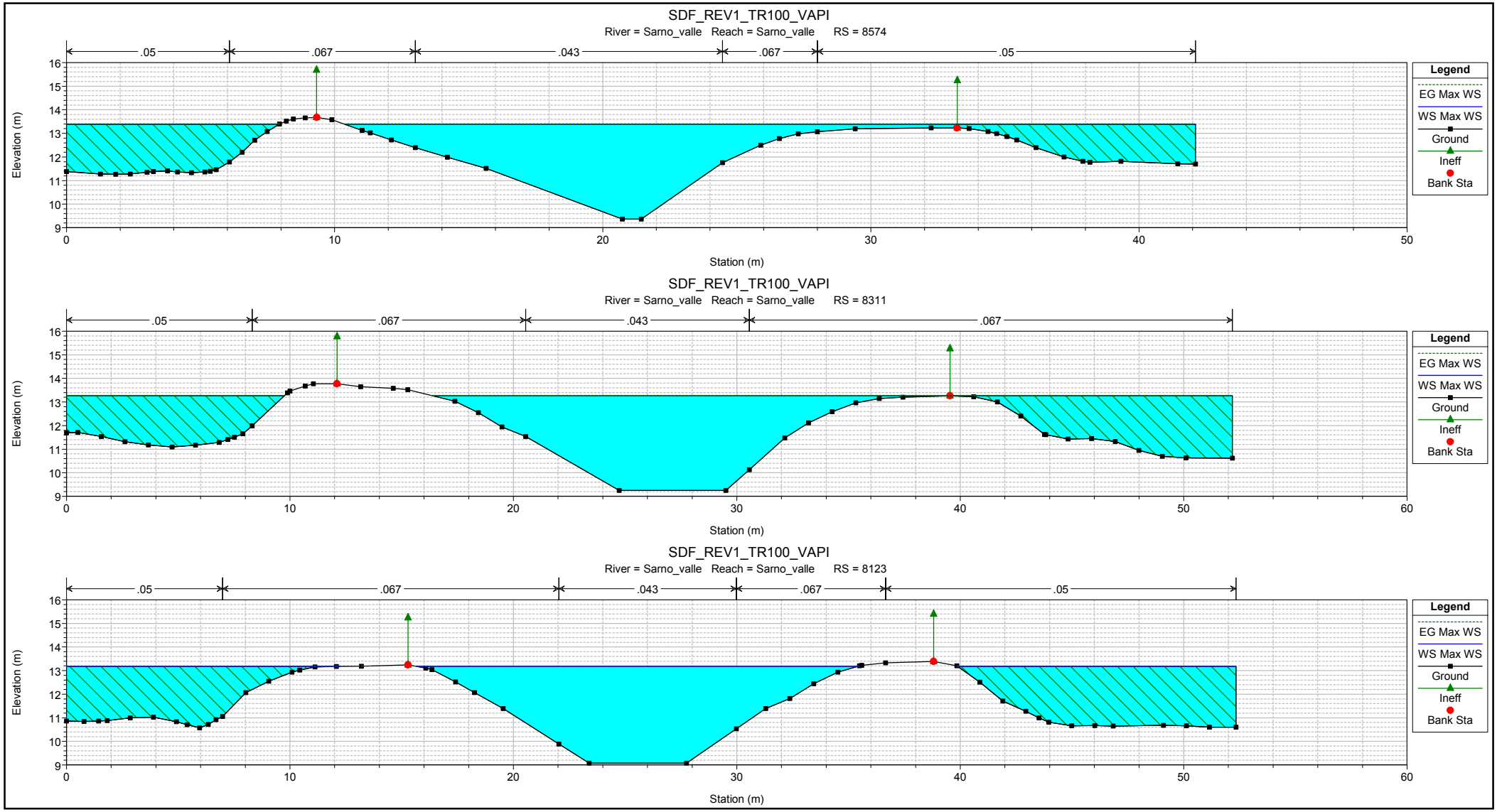

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10050
.05
.067
.43
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9965
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9887
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

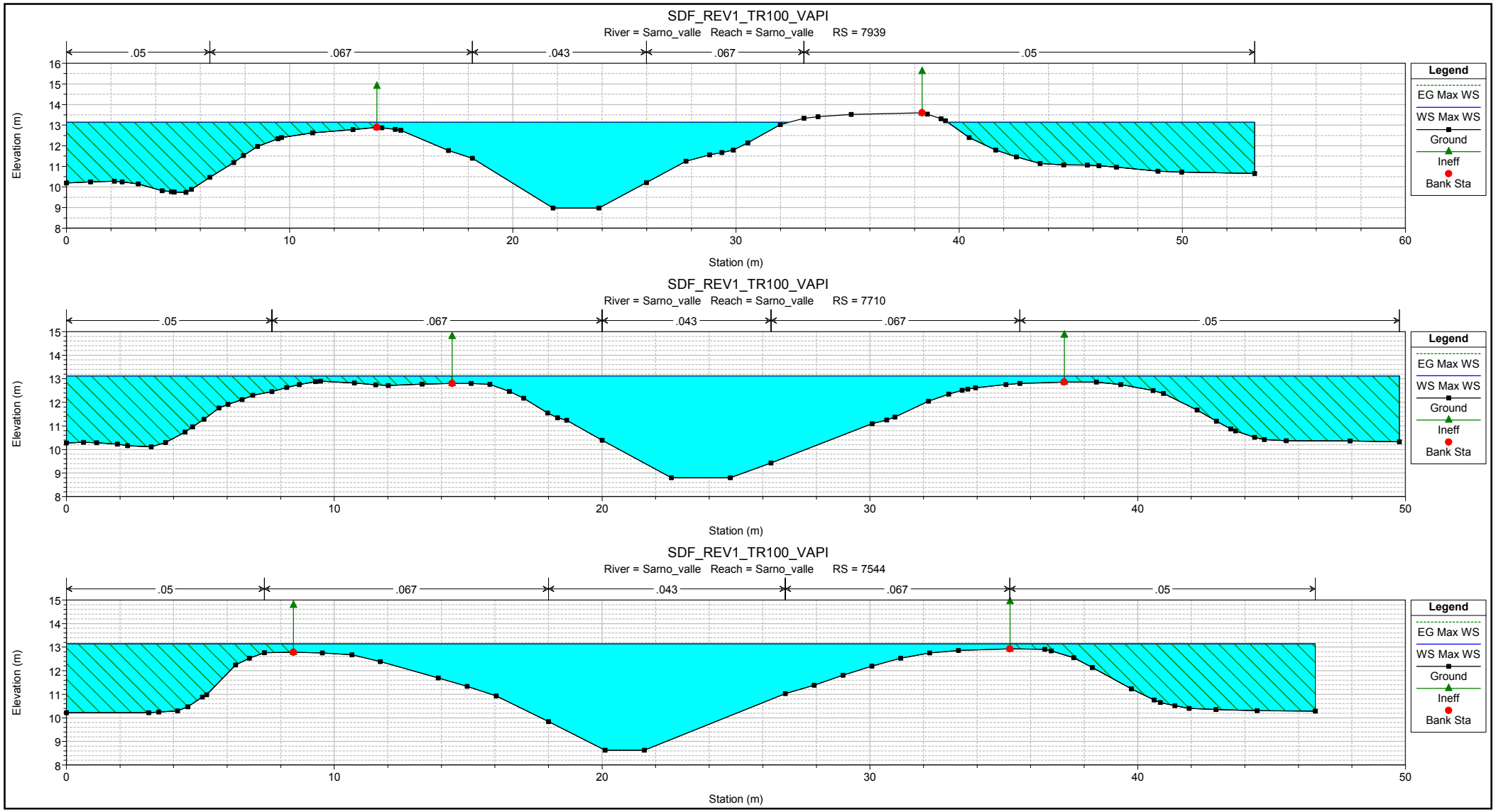

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9824
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9629
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

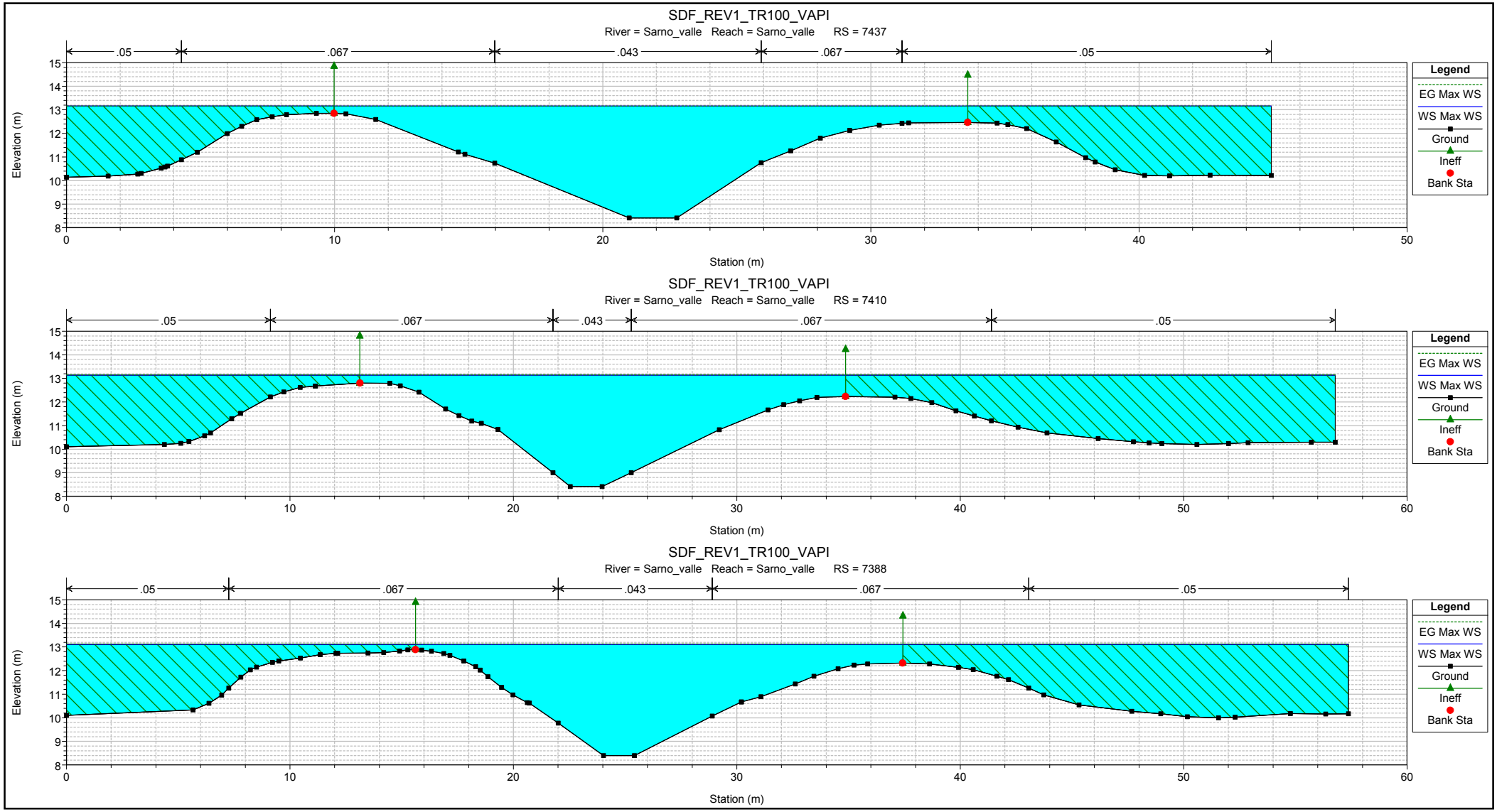

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9518
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9435
.05
.067
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9396
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

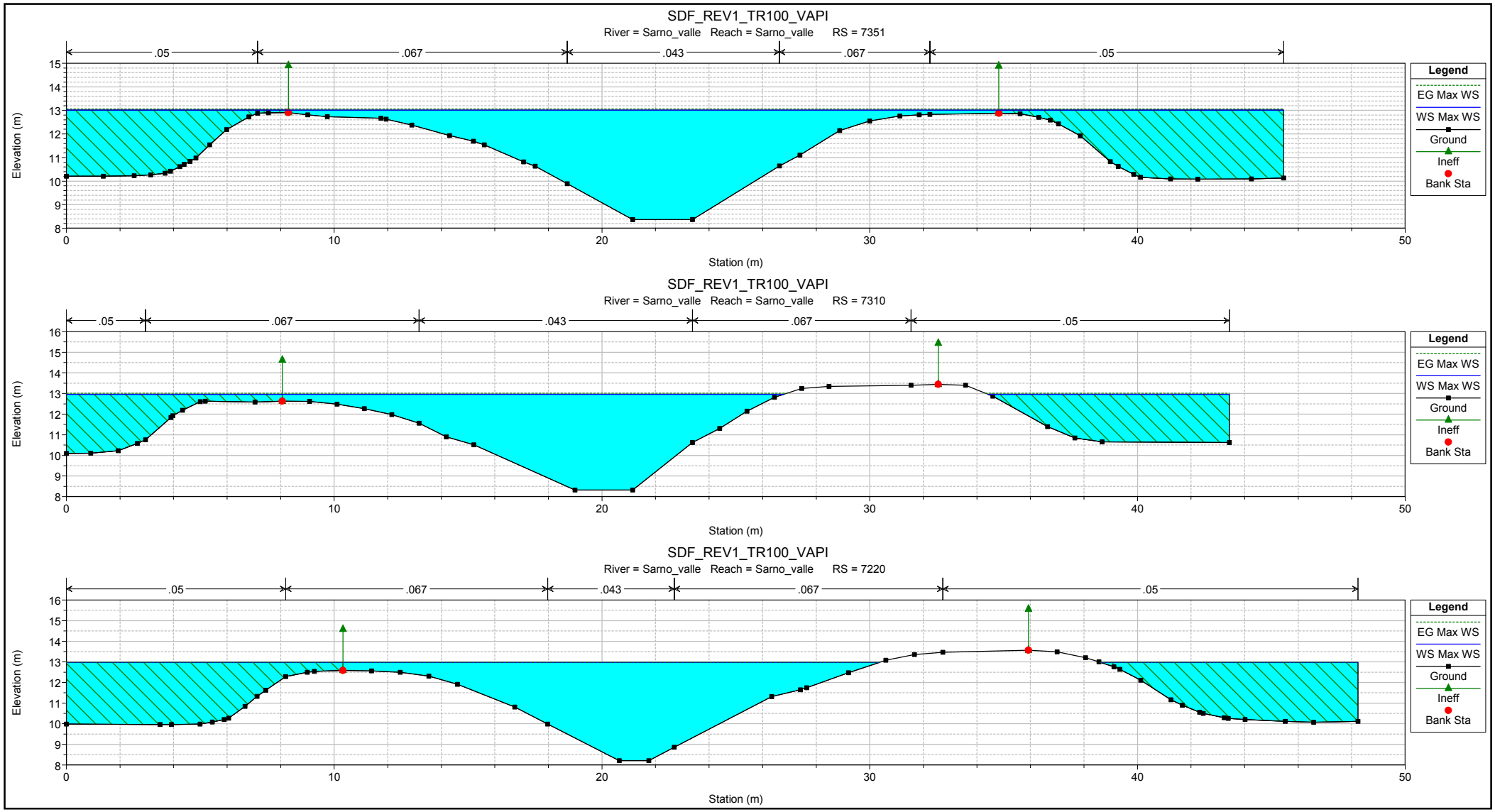

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9363
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9318
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9130
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

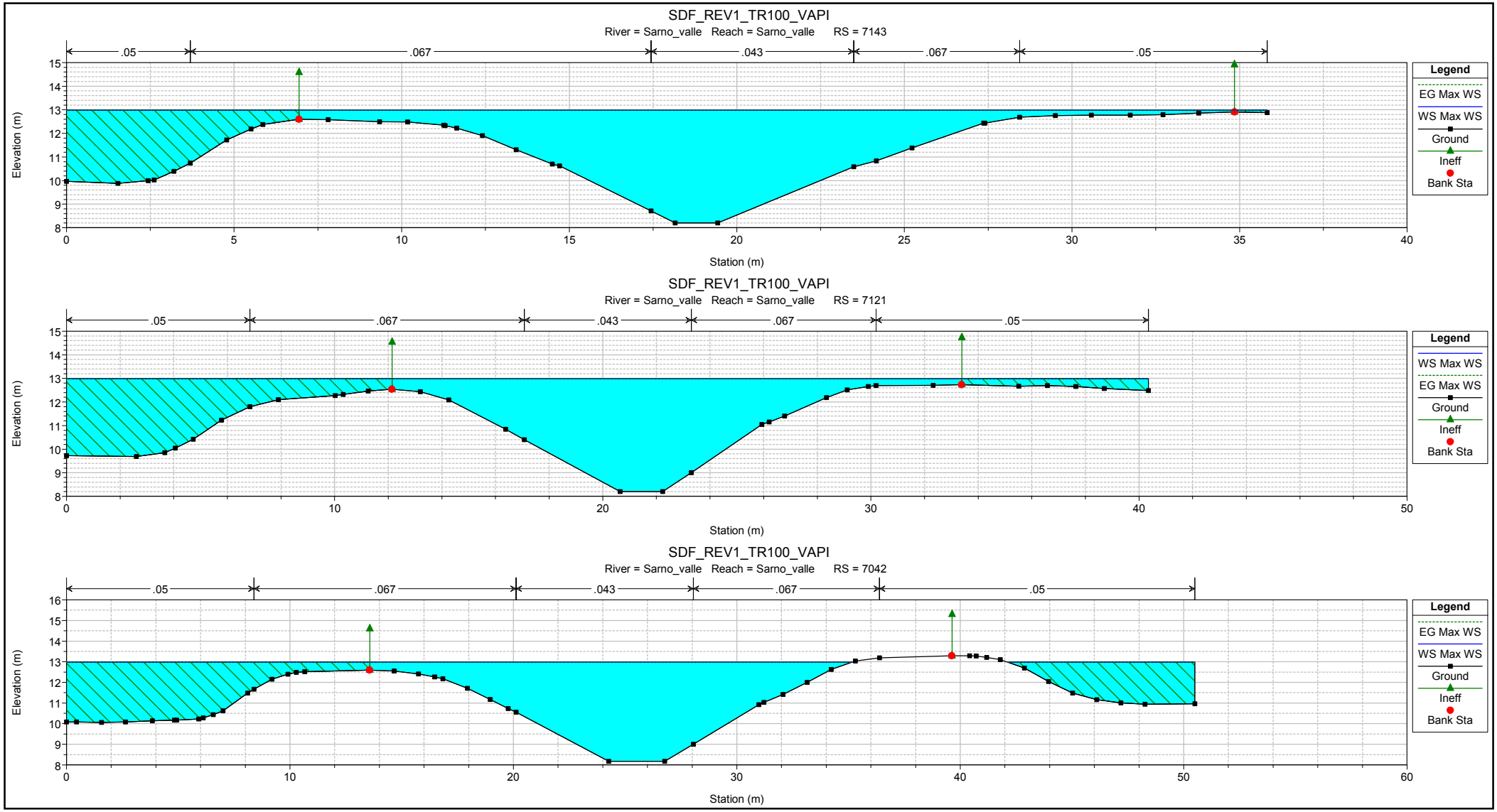

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8979
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8789
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8648
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

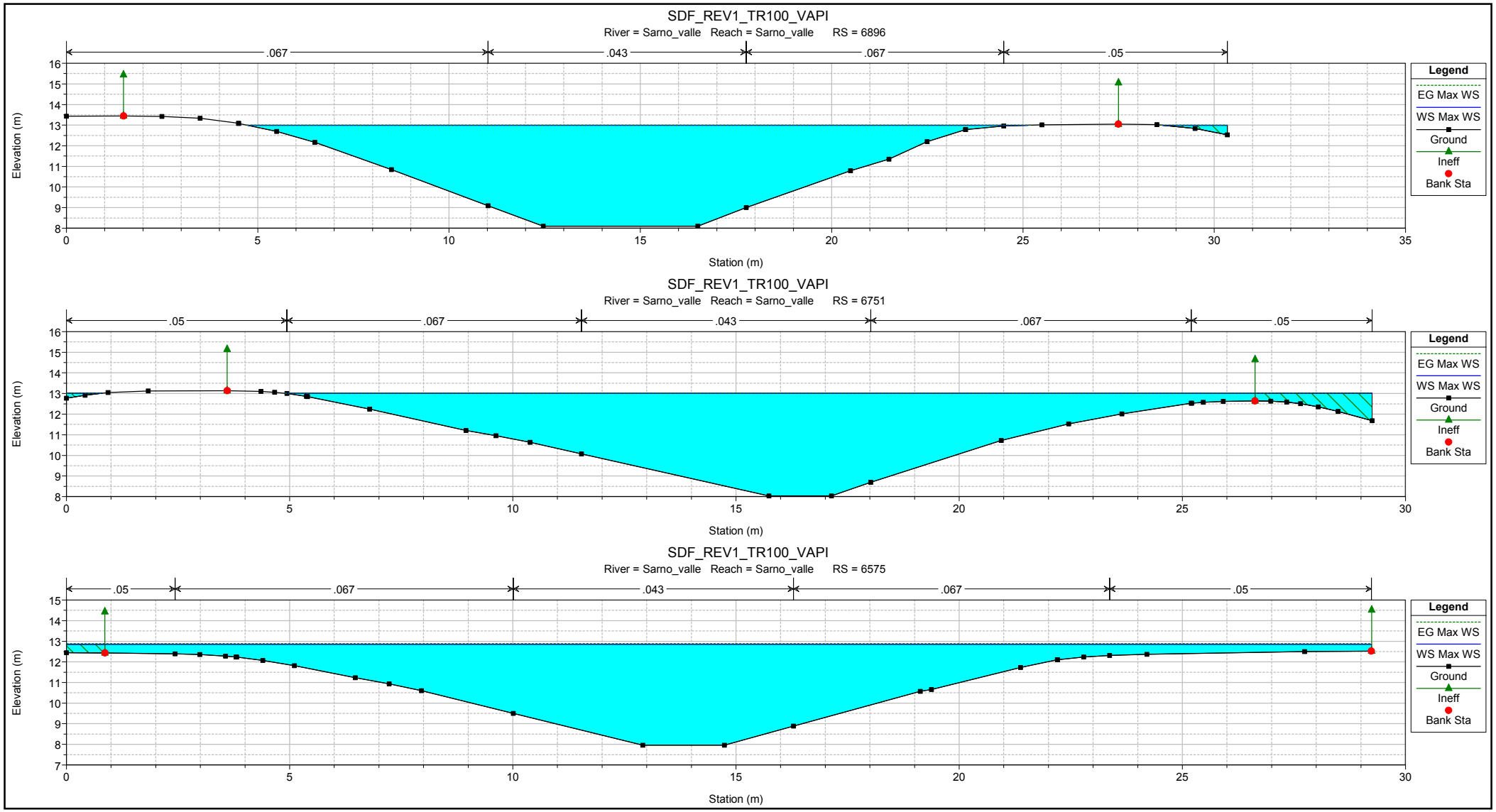

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8574
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8311
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8123
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

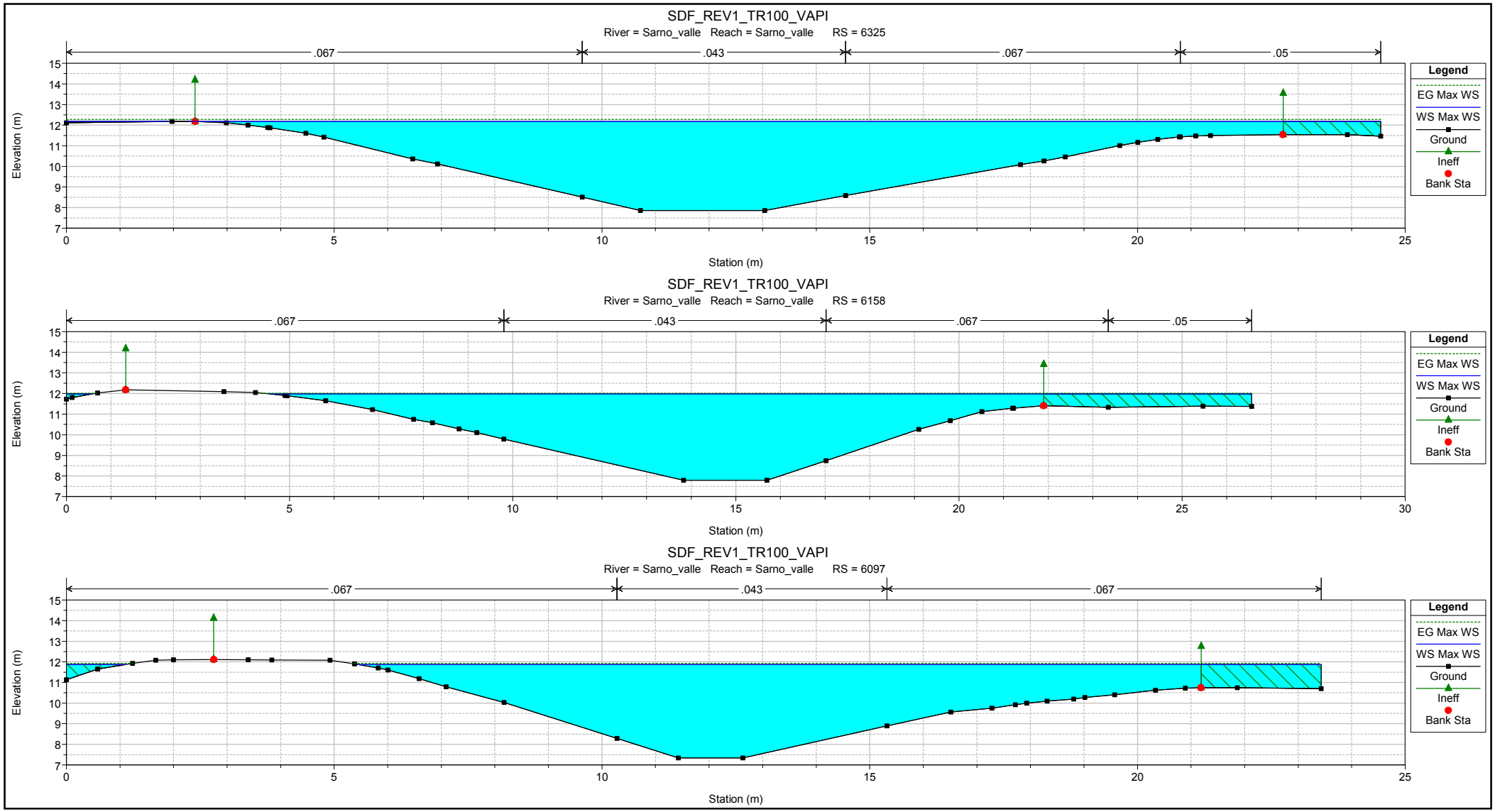

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7939
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7710
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7544
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

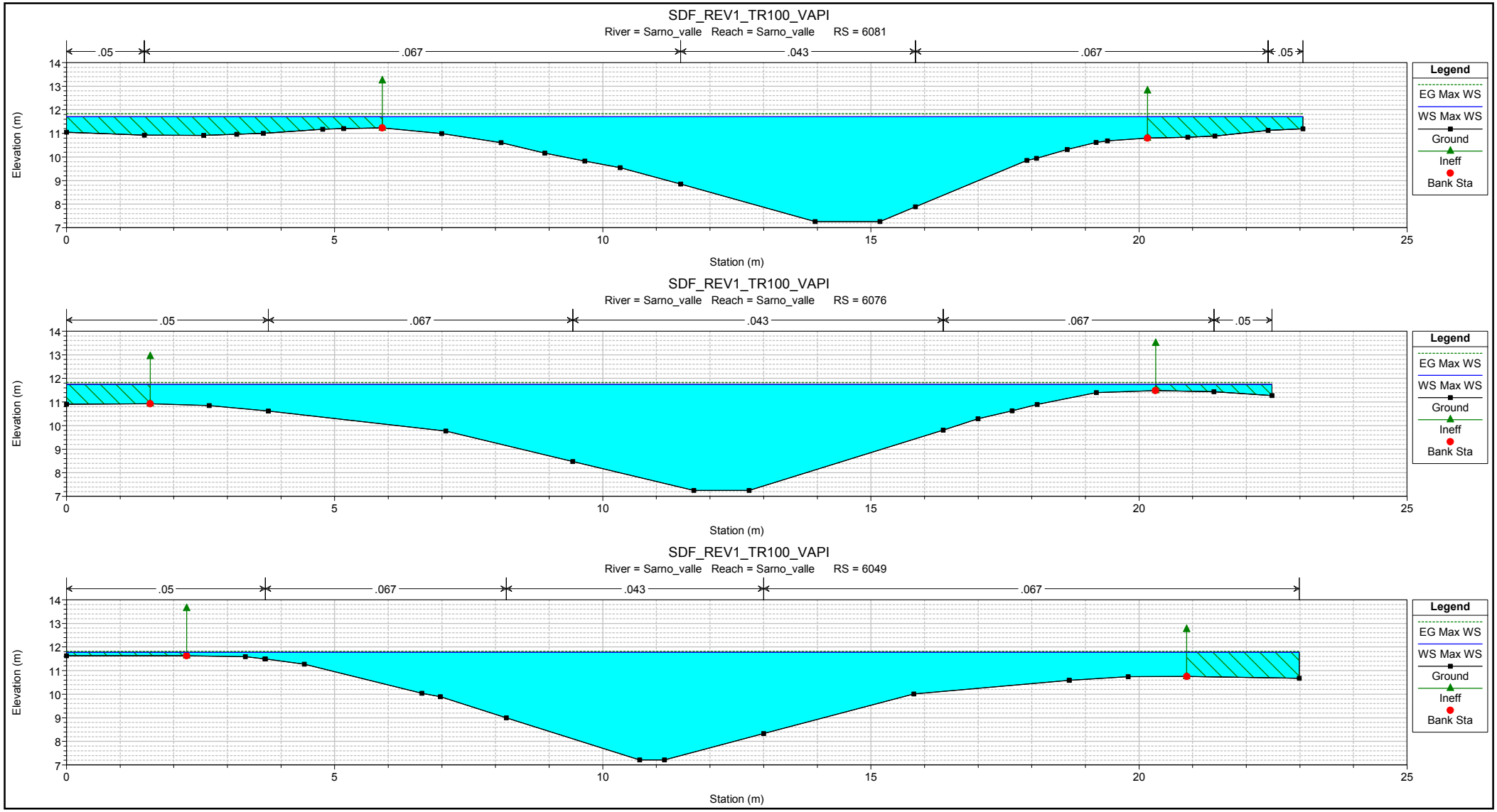

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7410
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7388
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

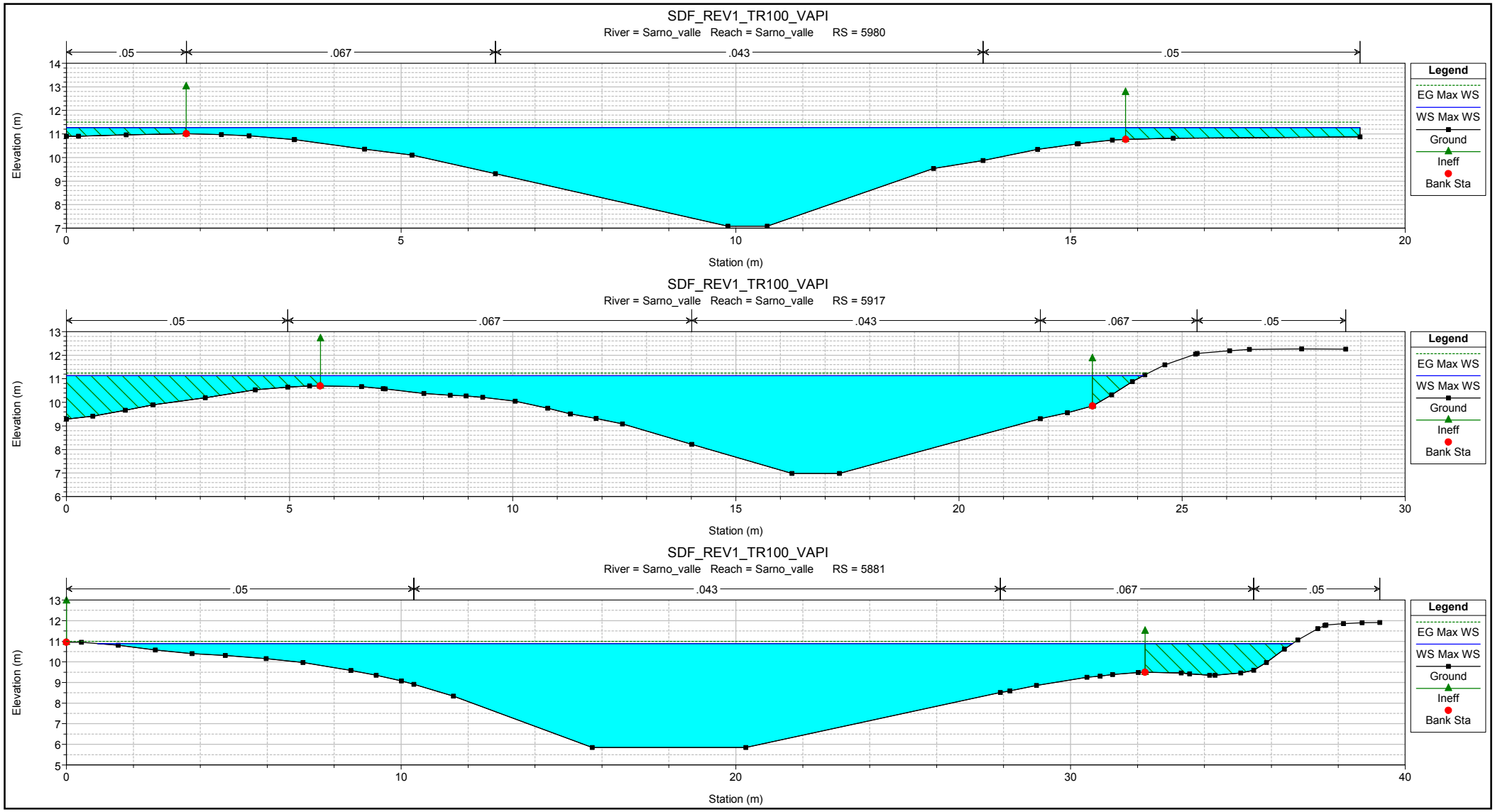

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7310
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

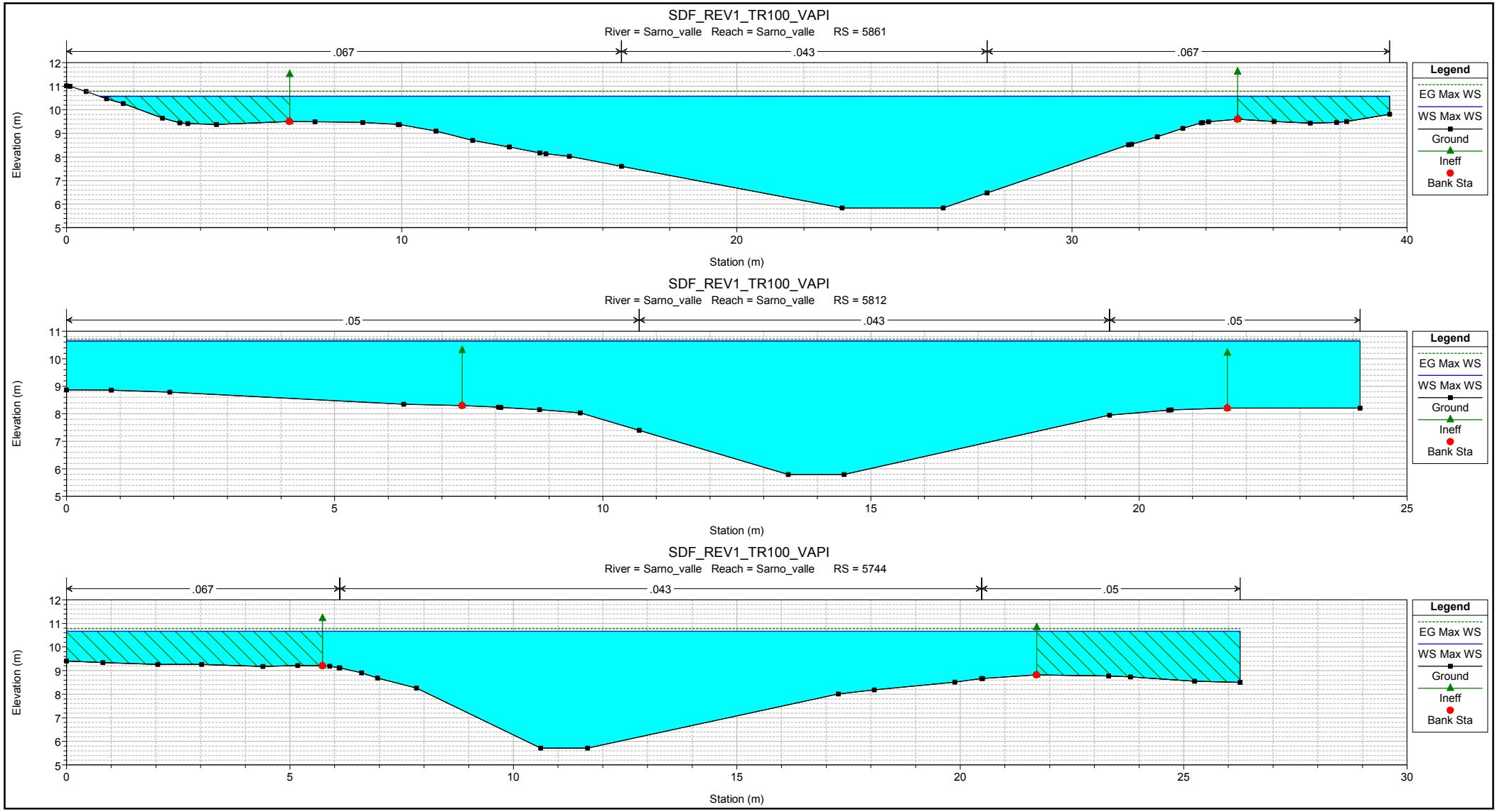

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7143
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7121
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
WS Max WS
EG Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7042
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

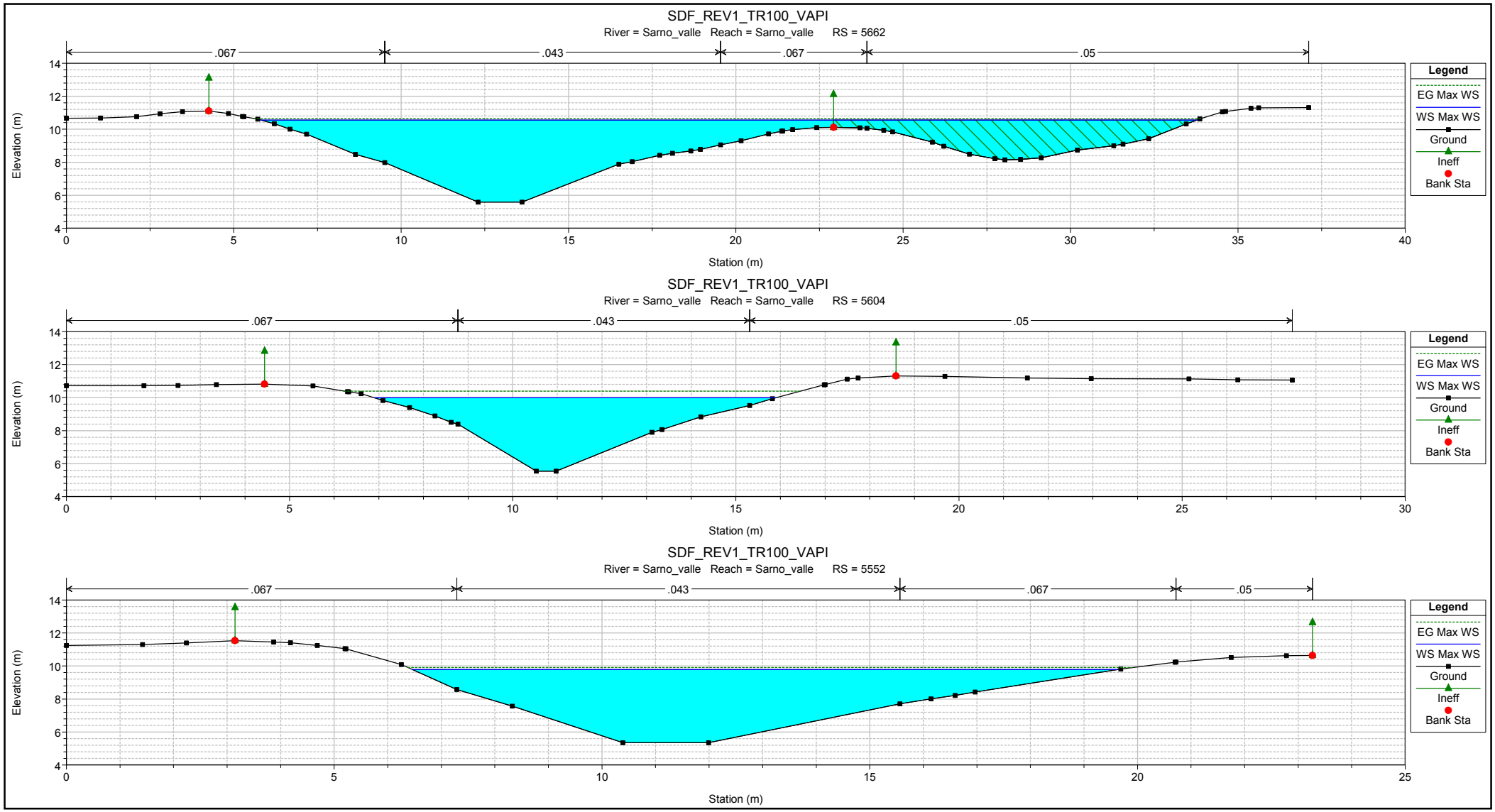

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6896
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6575
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

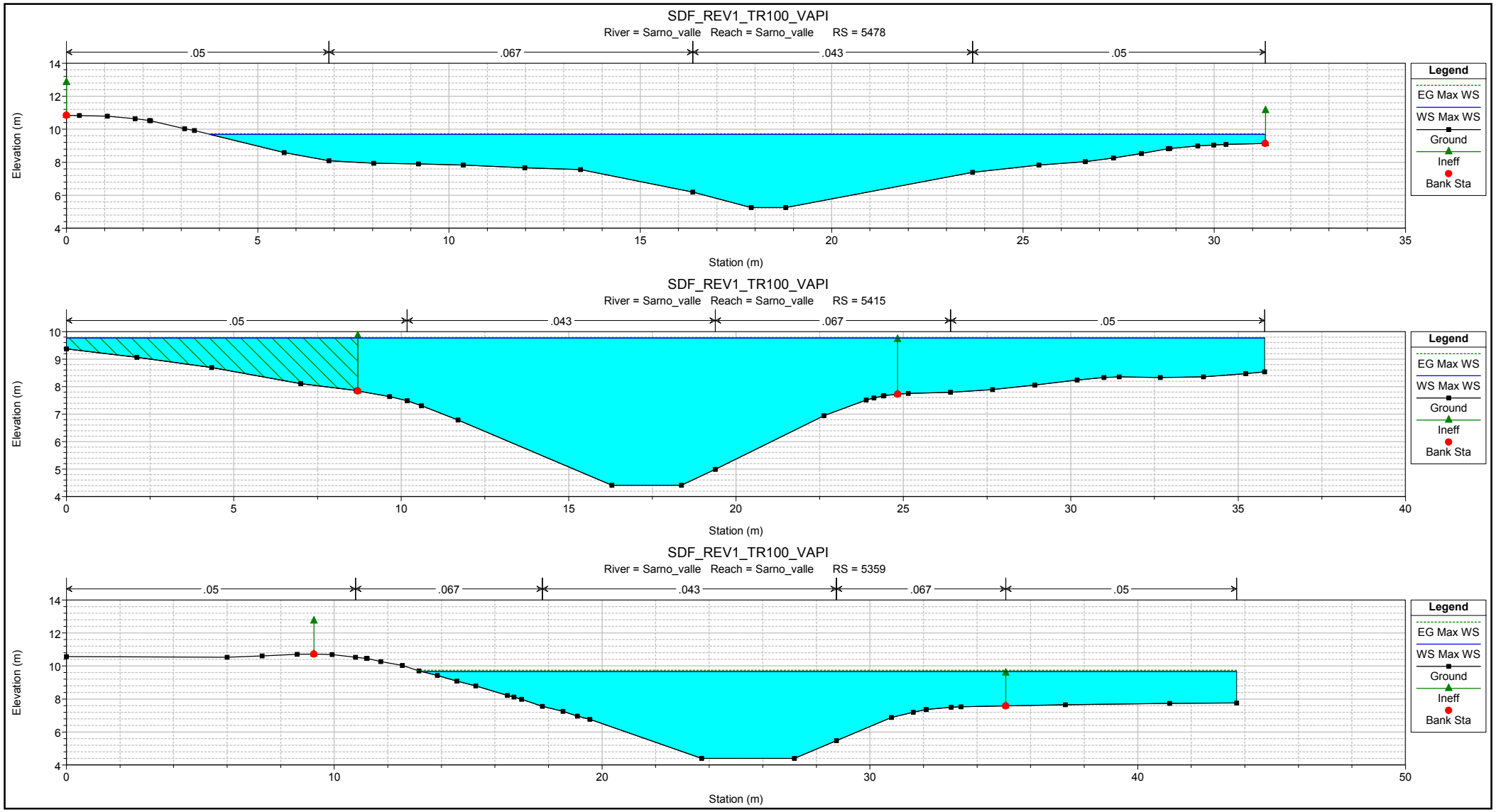

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6325
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6158
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6097
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

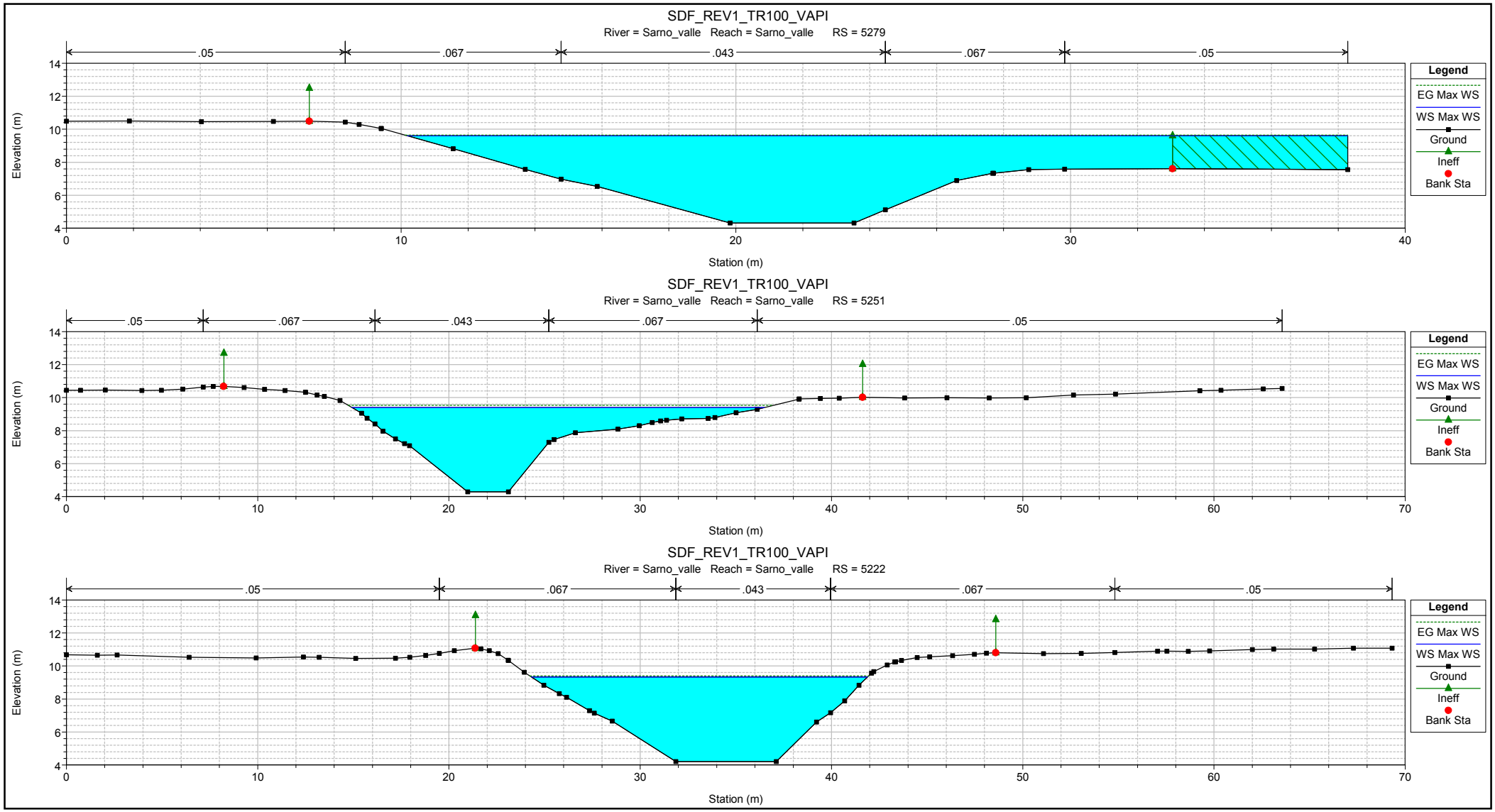

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6081
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6076
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6049
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

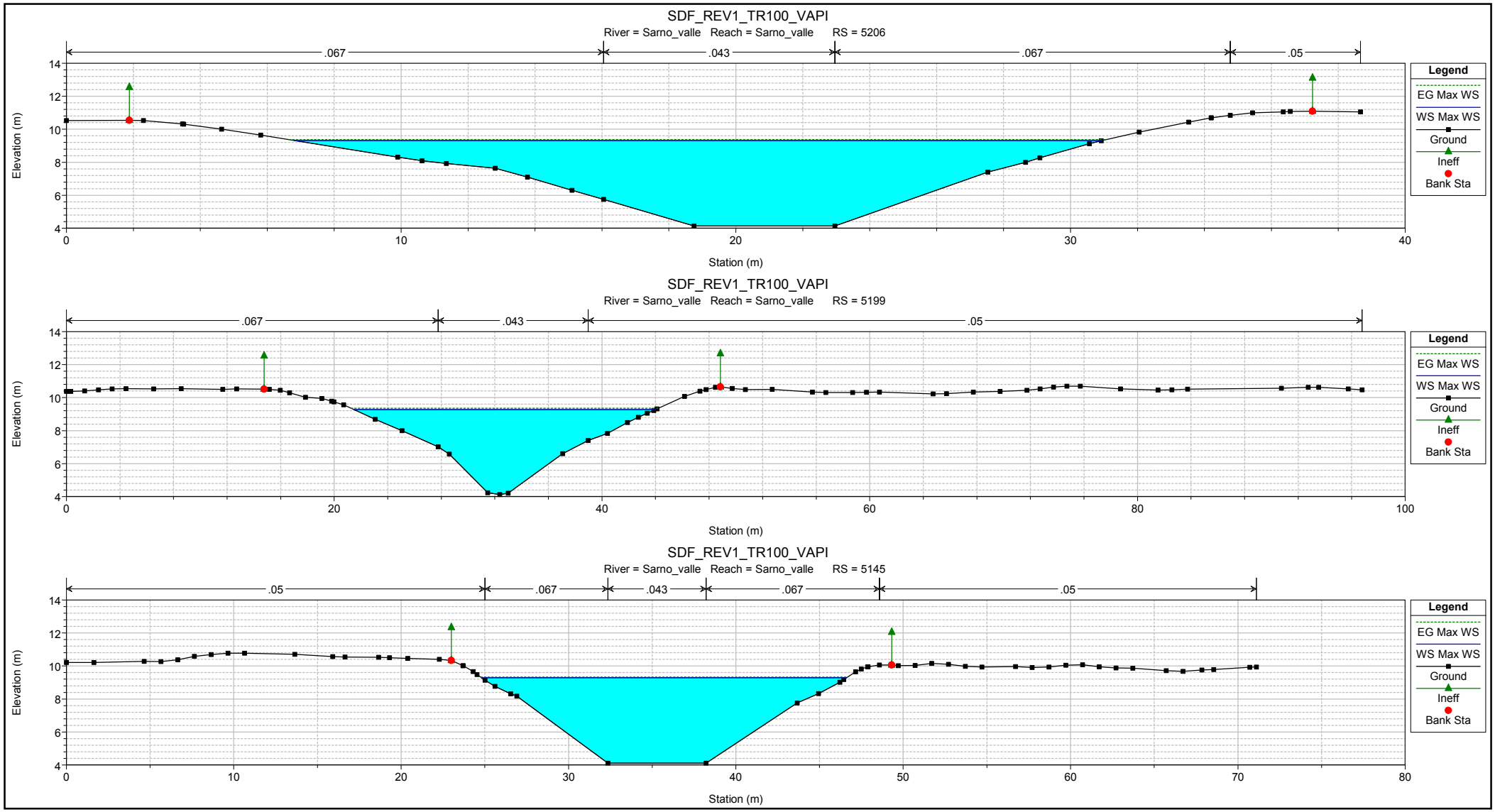

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5980
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5917
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5881
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

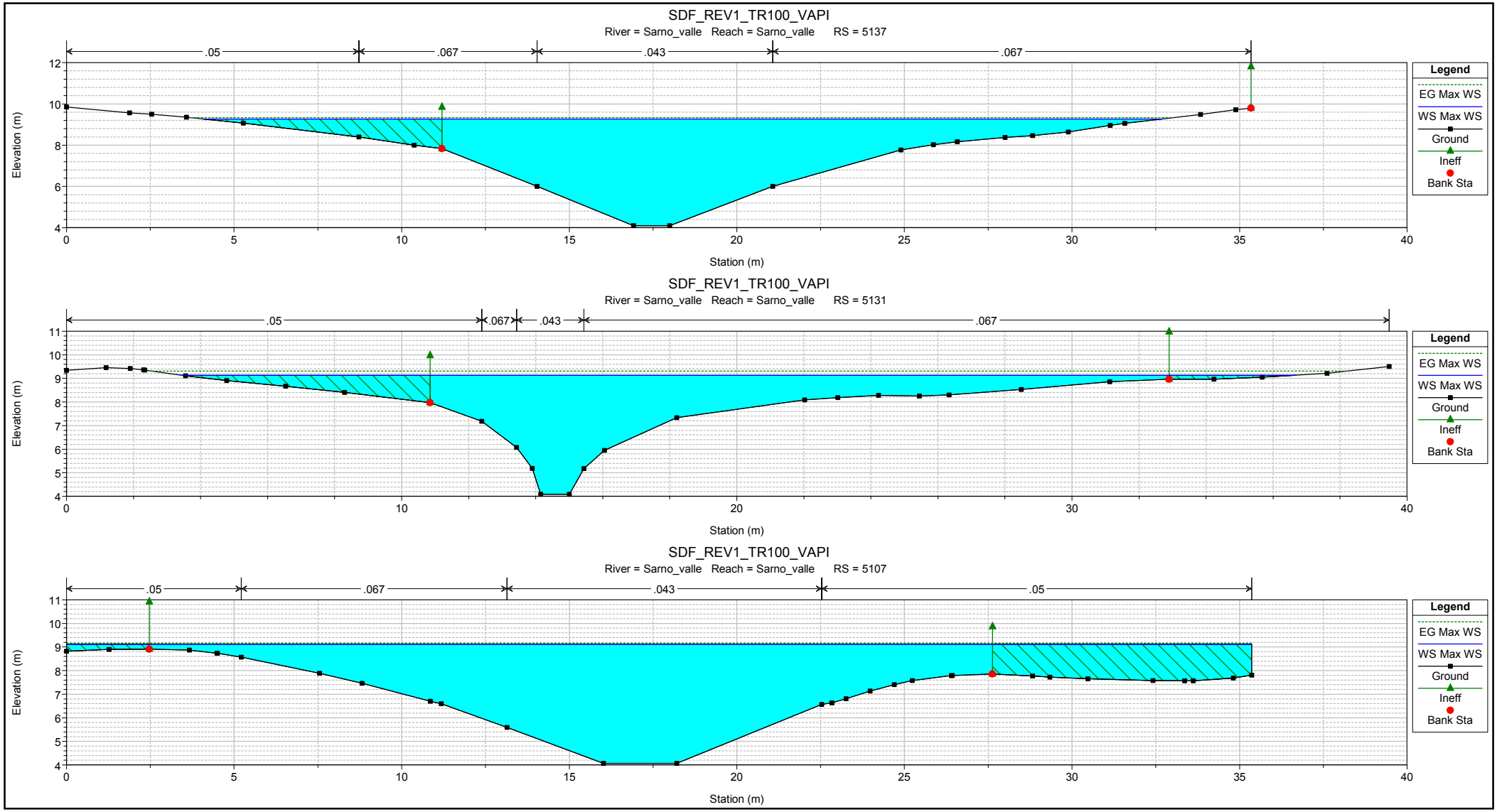

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5861
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5812
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5744
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

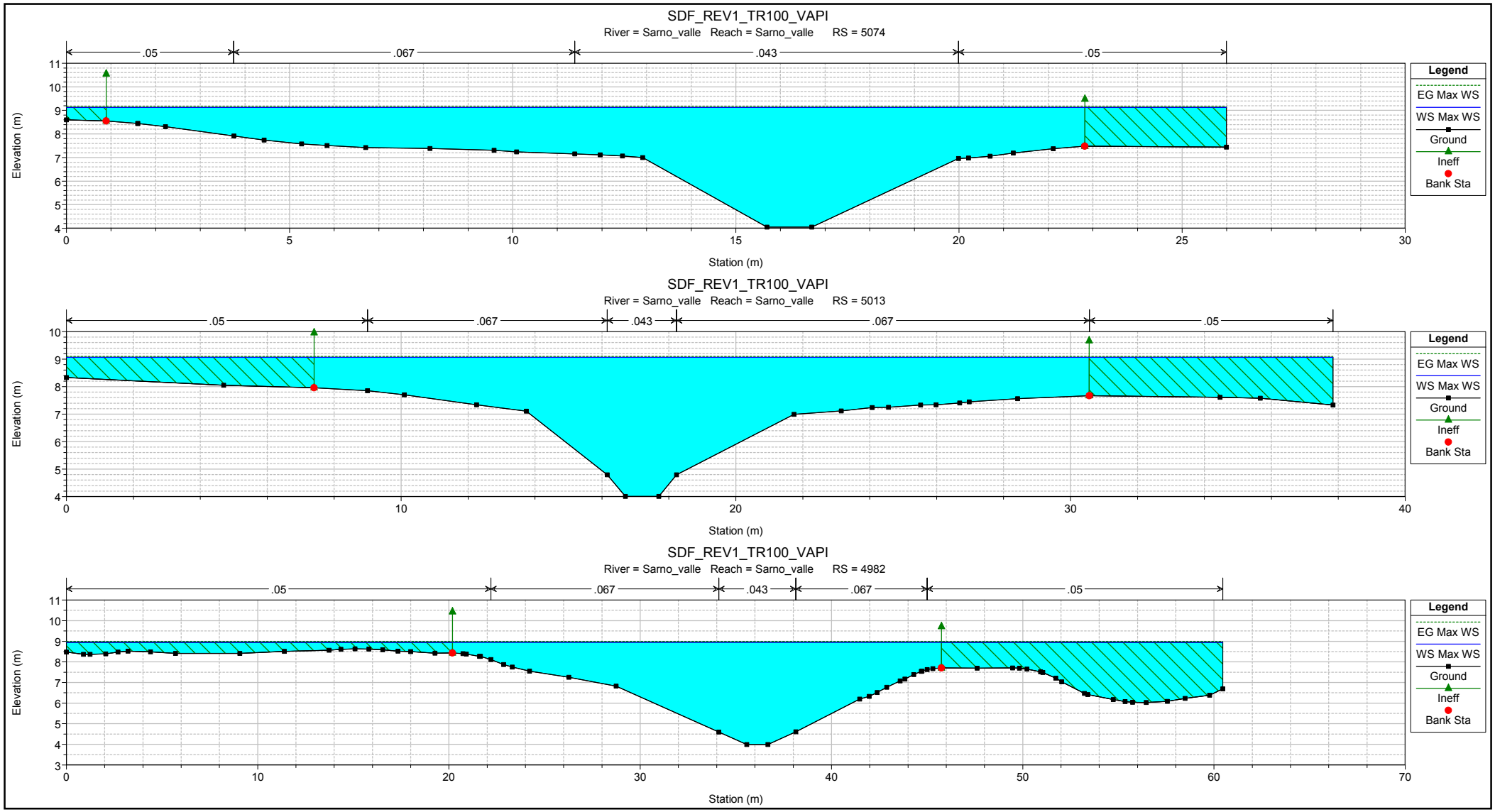

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5662
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5604
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5552
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

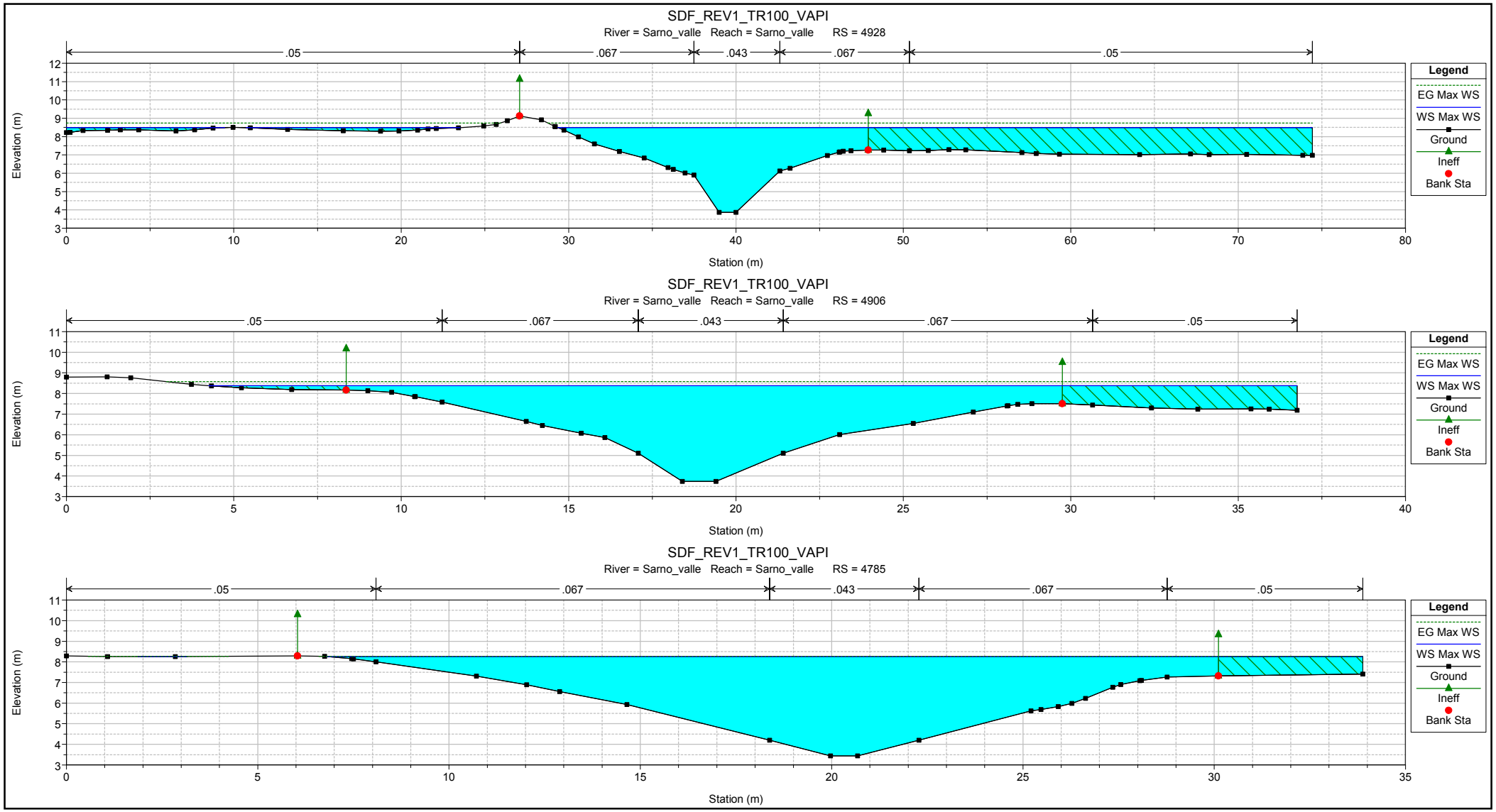

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5478
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5415
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5359
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

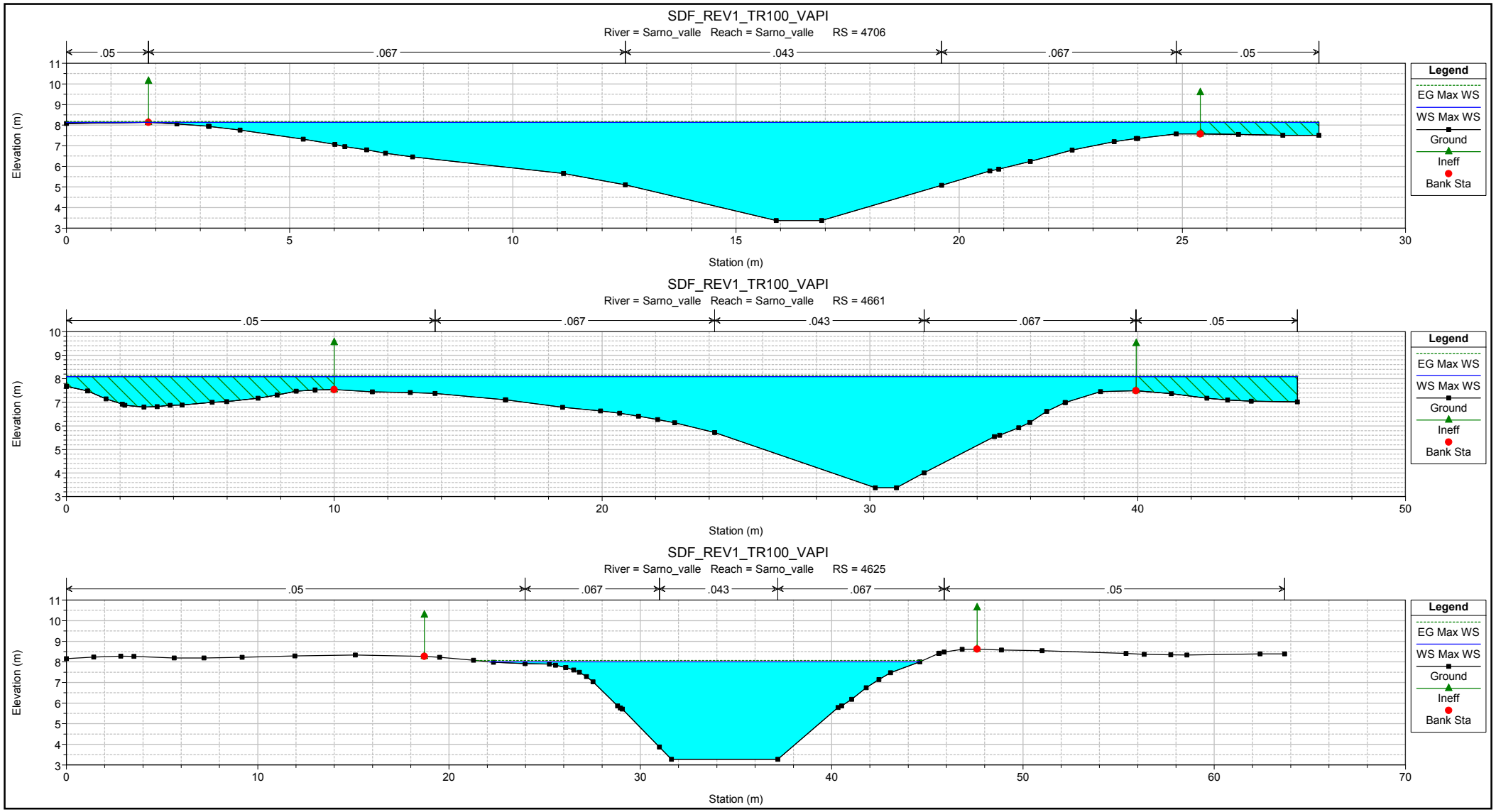

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5279
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5251
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5222
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

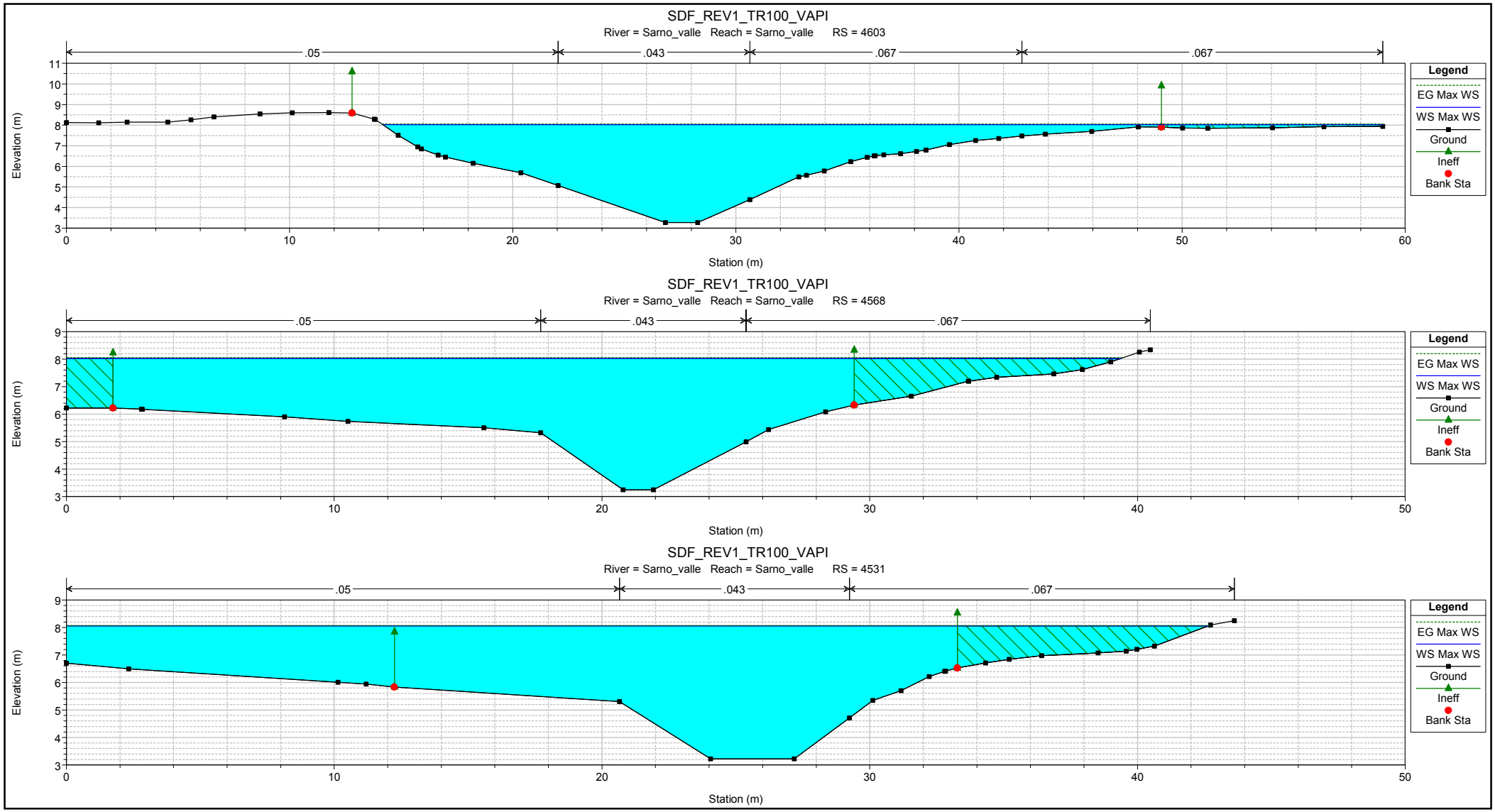

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5206
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5199
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5145
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

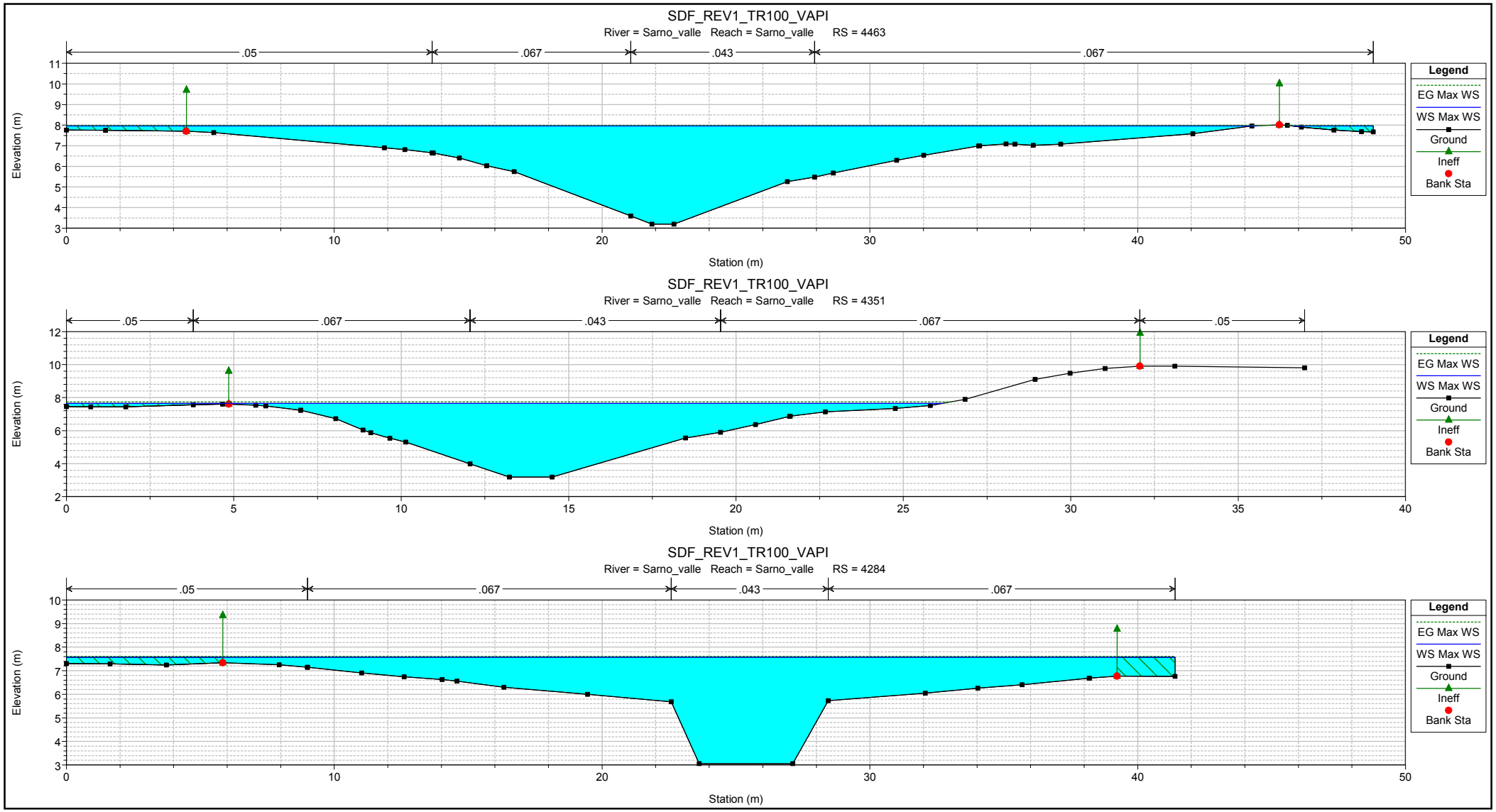

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5137
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5131
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5107
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

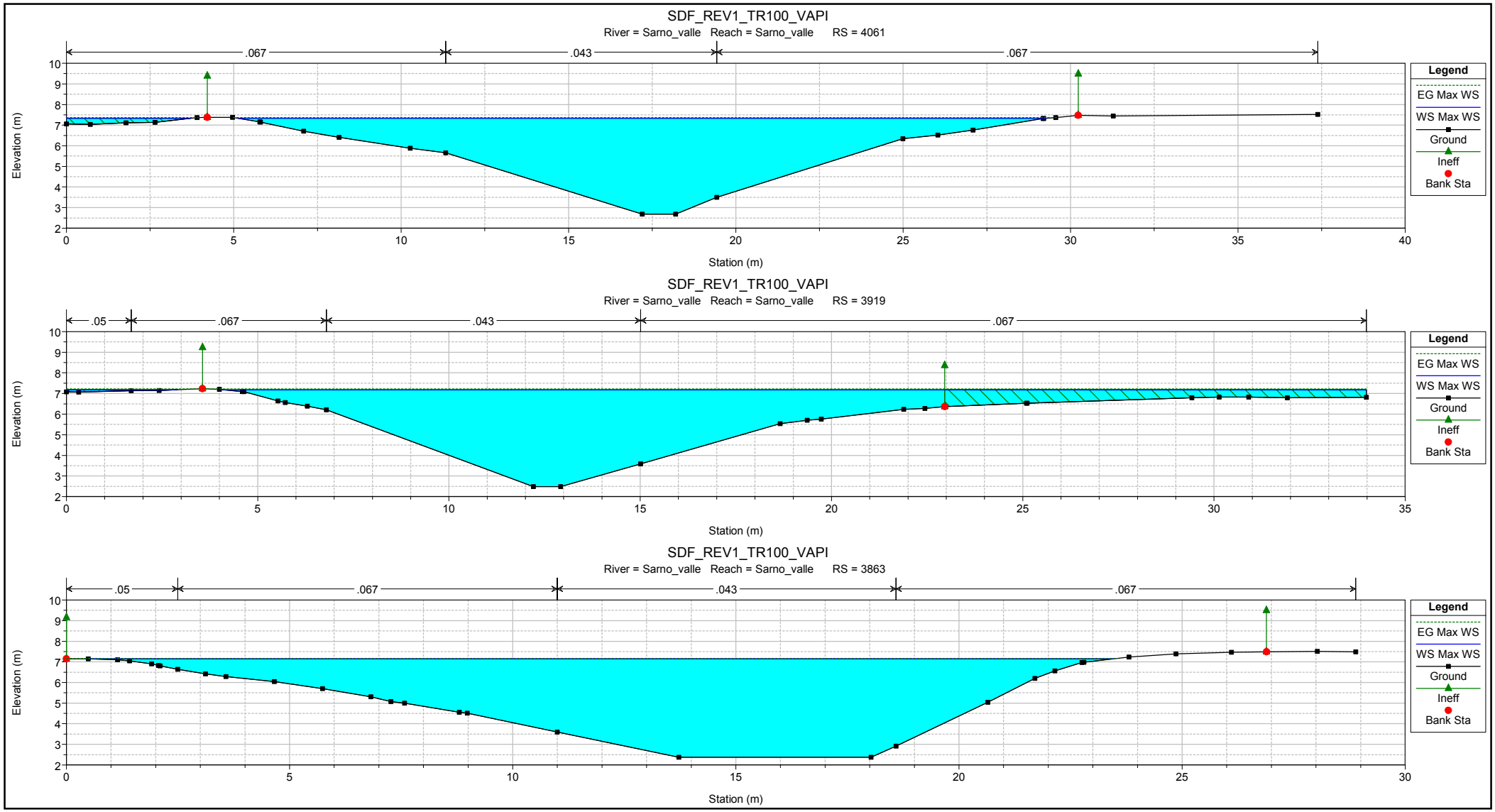

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5074
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5013
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4982
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

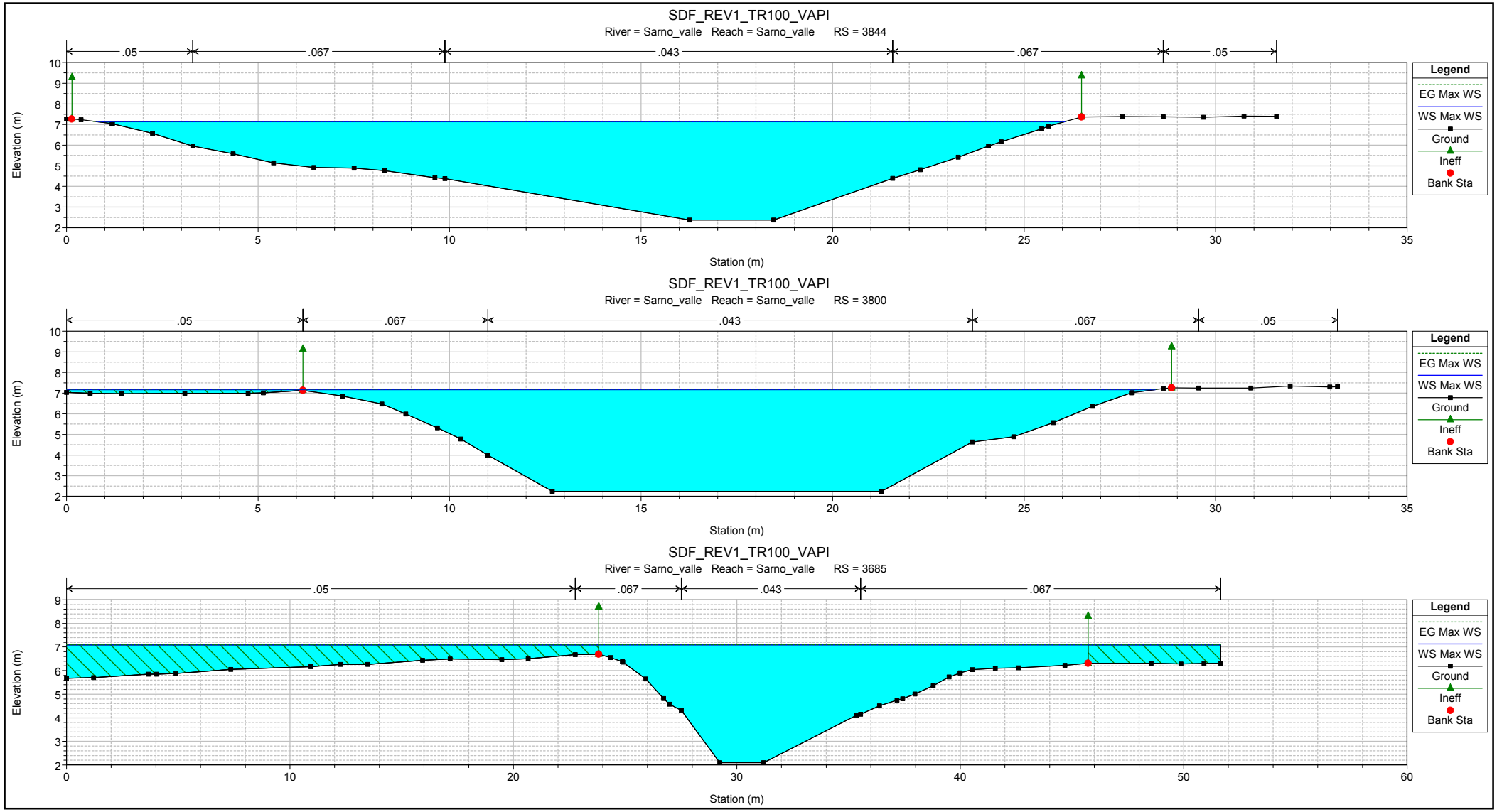

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4928
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4906
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4785
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

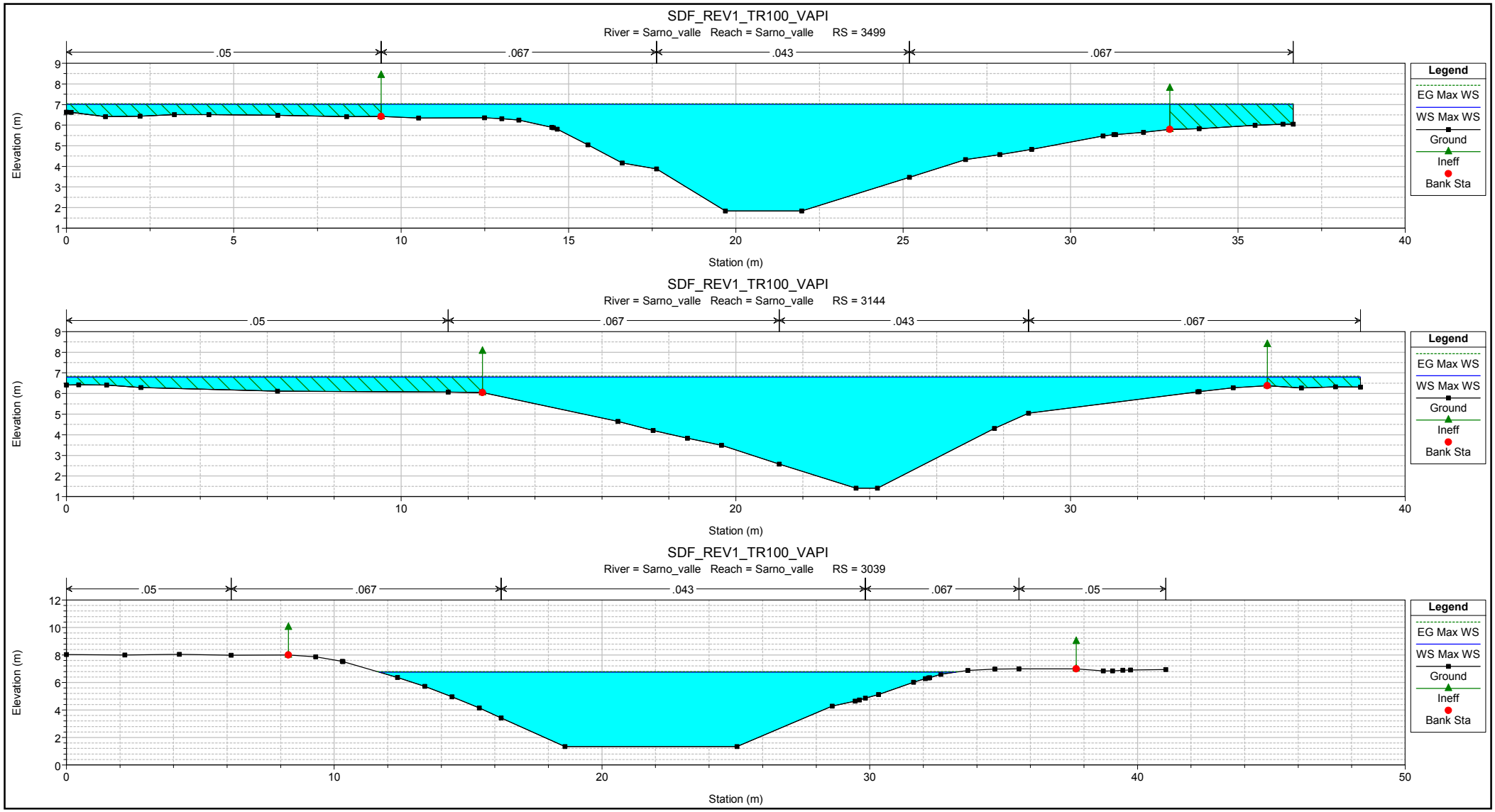

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4706
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4661
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4625
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

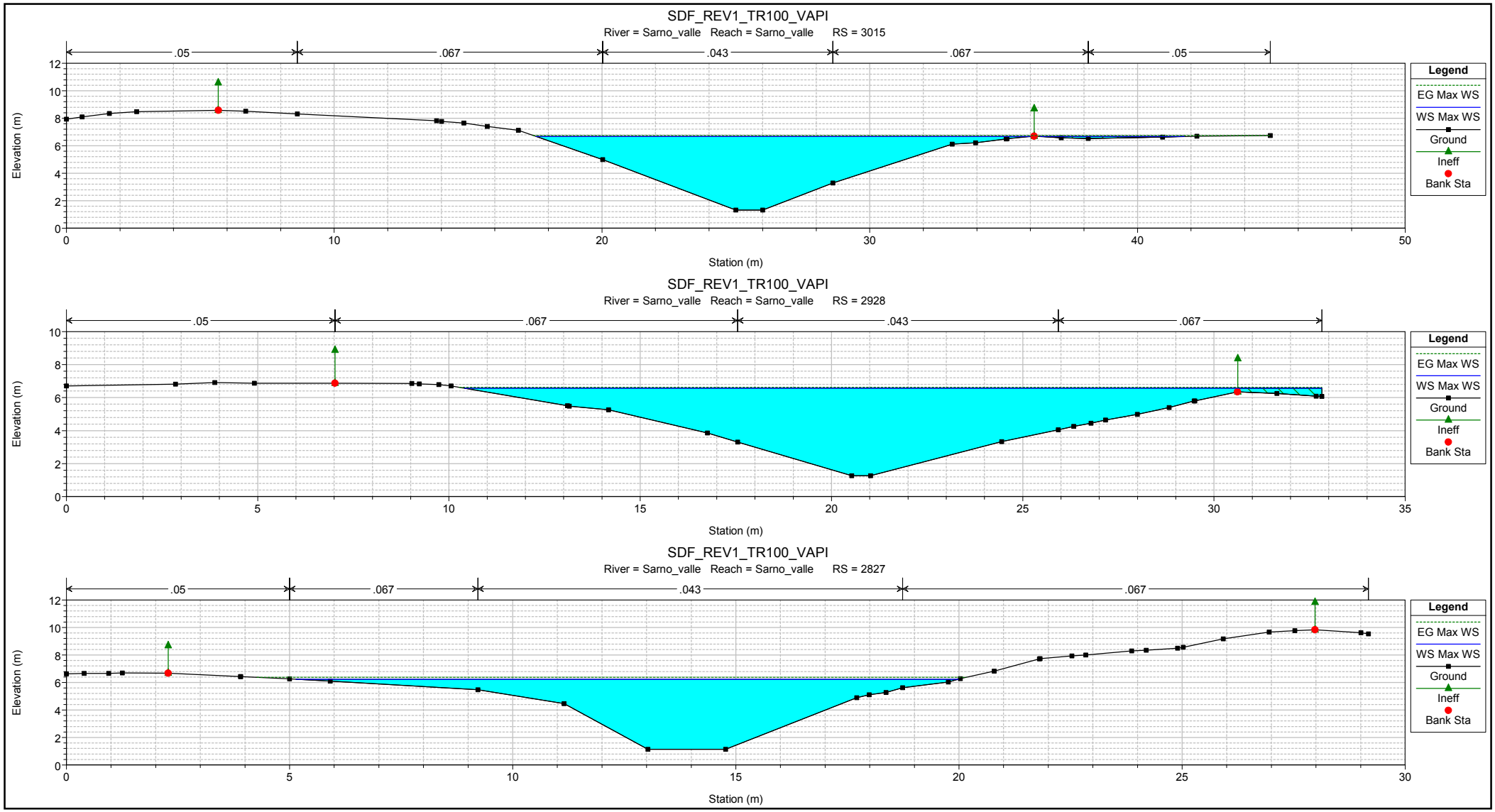

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4603
.05
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4568
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4531
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

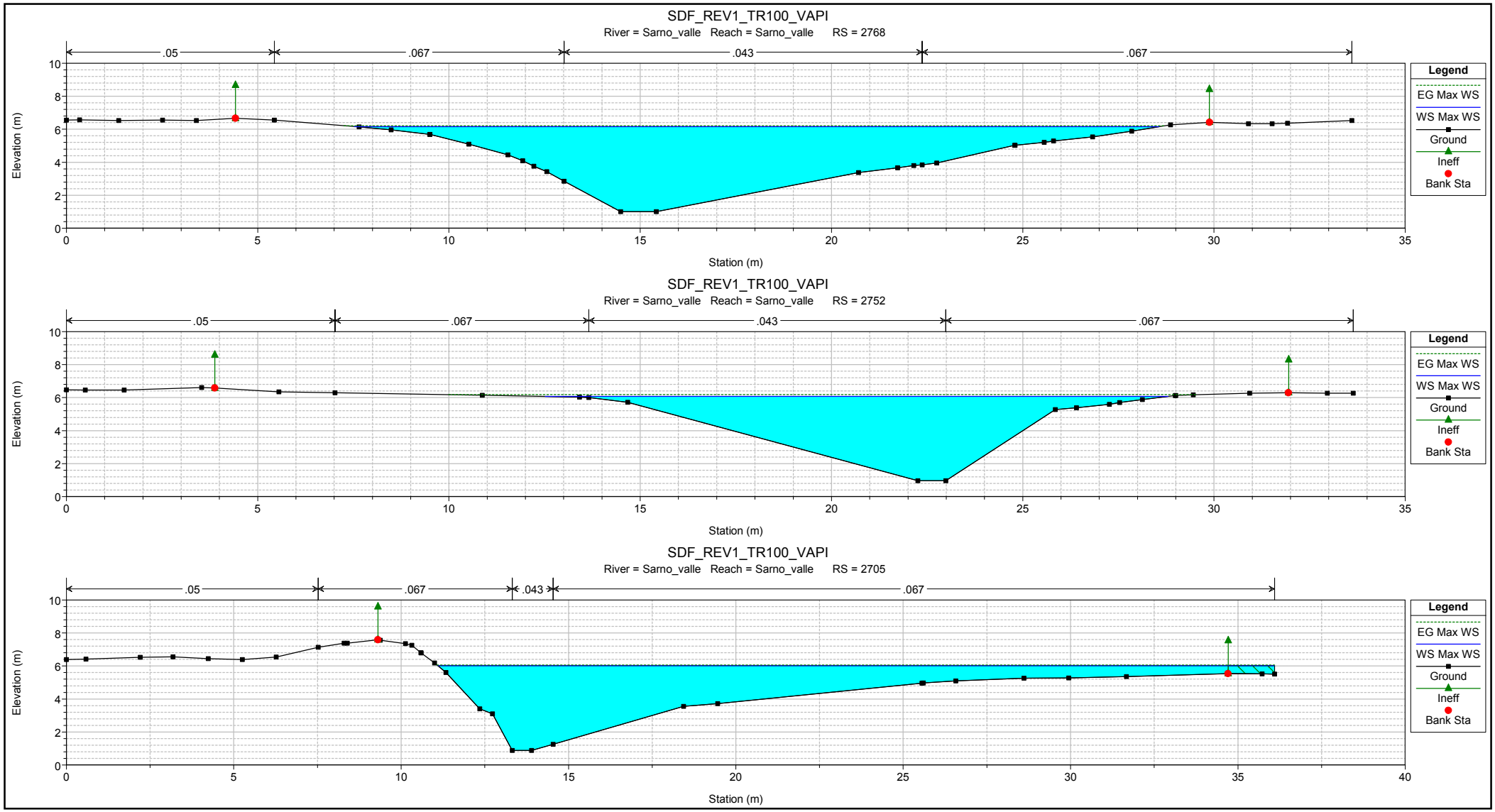

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4463
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4284
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

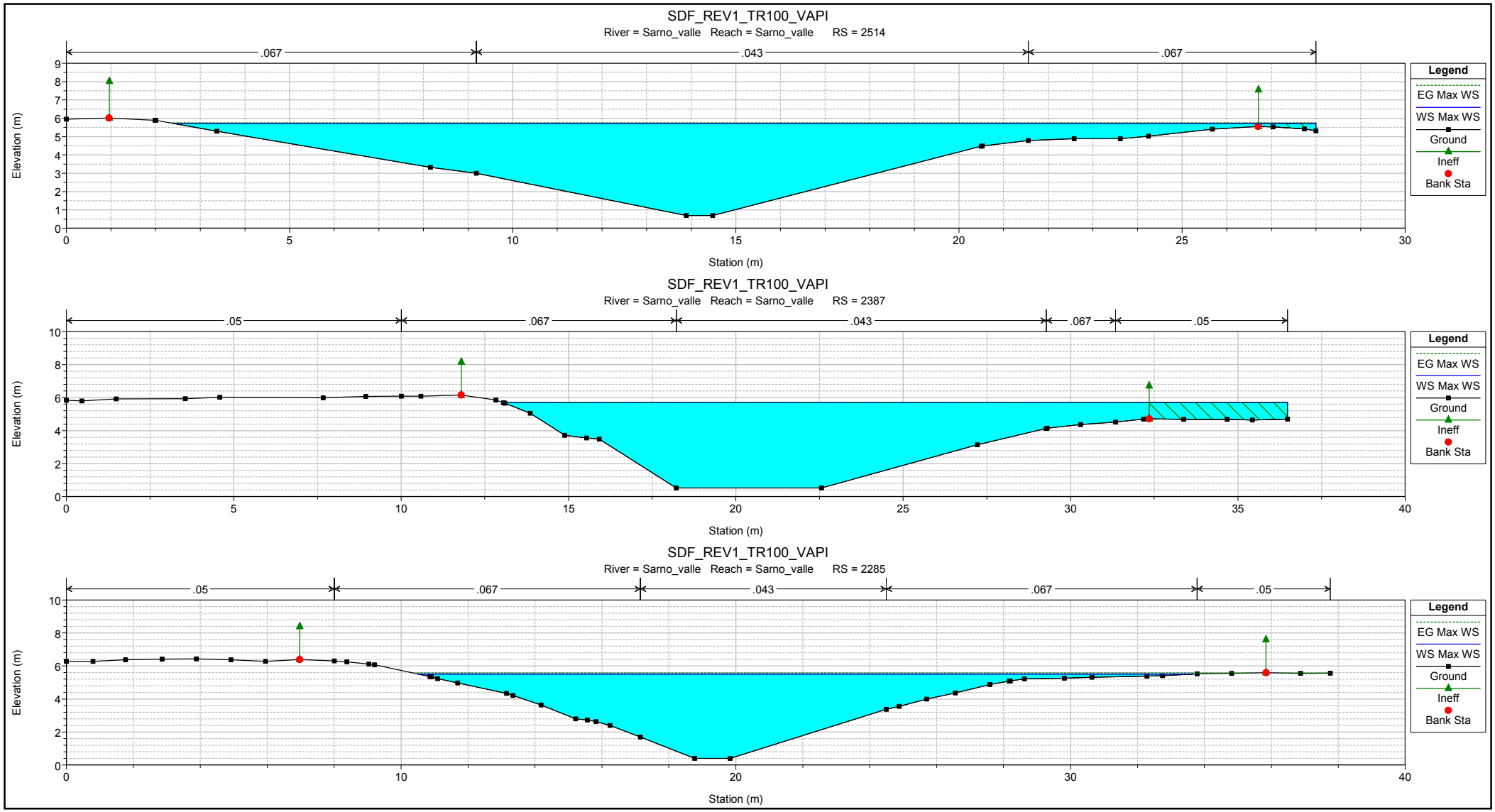

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4061
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3919
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3863
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

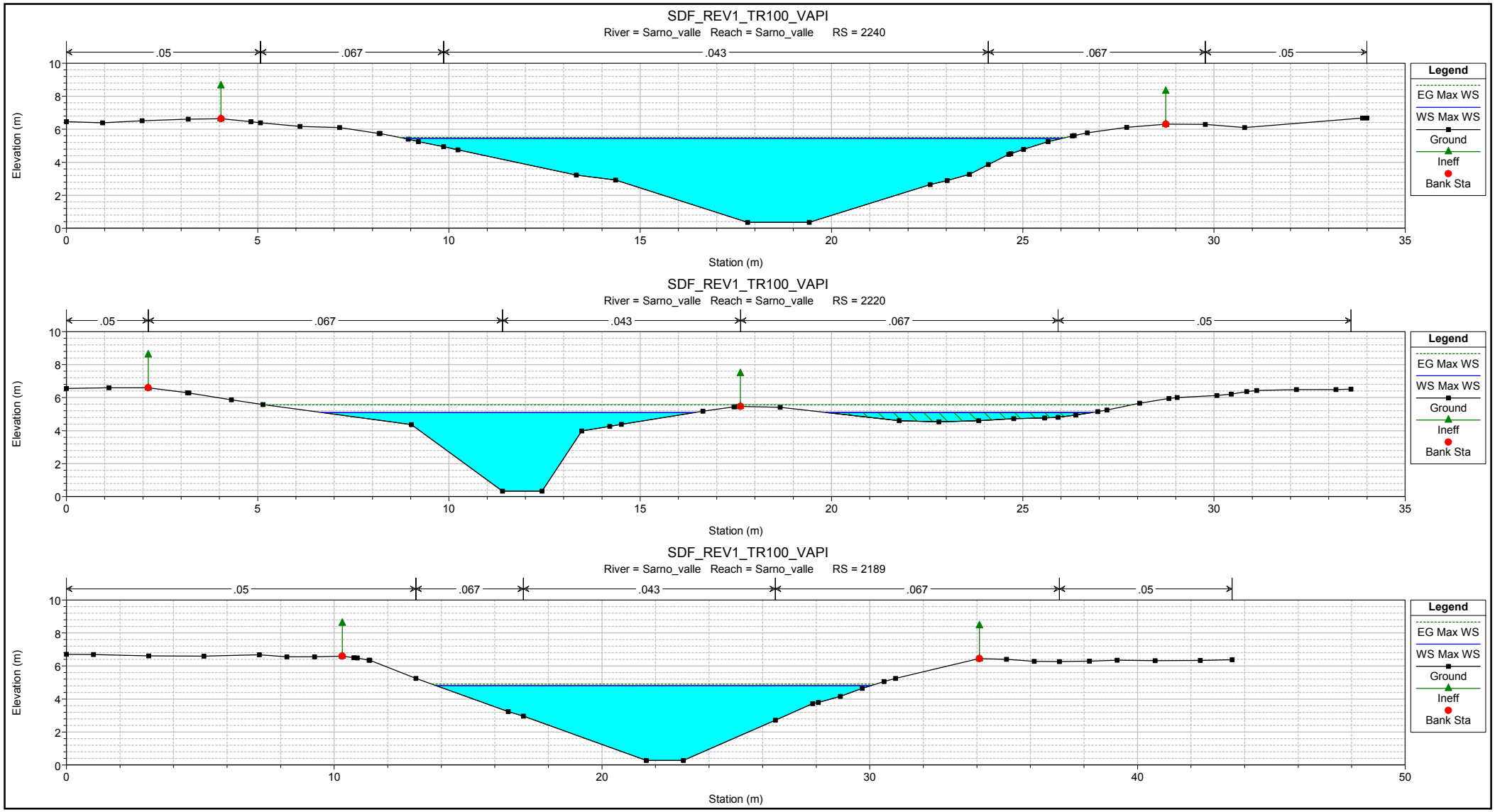

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3844
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3800
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3685
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

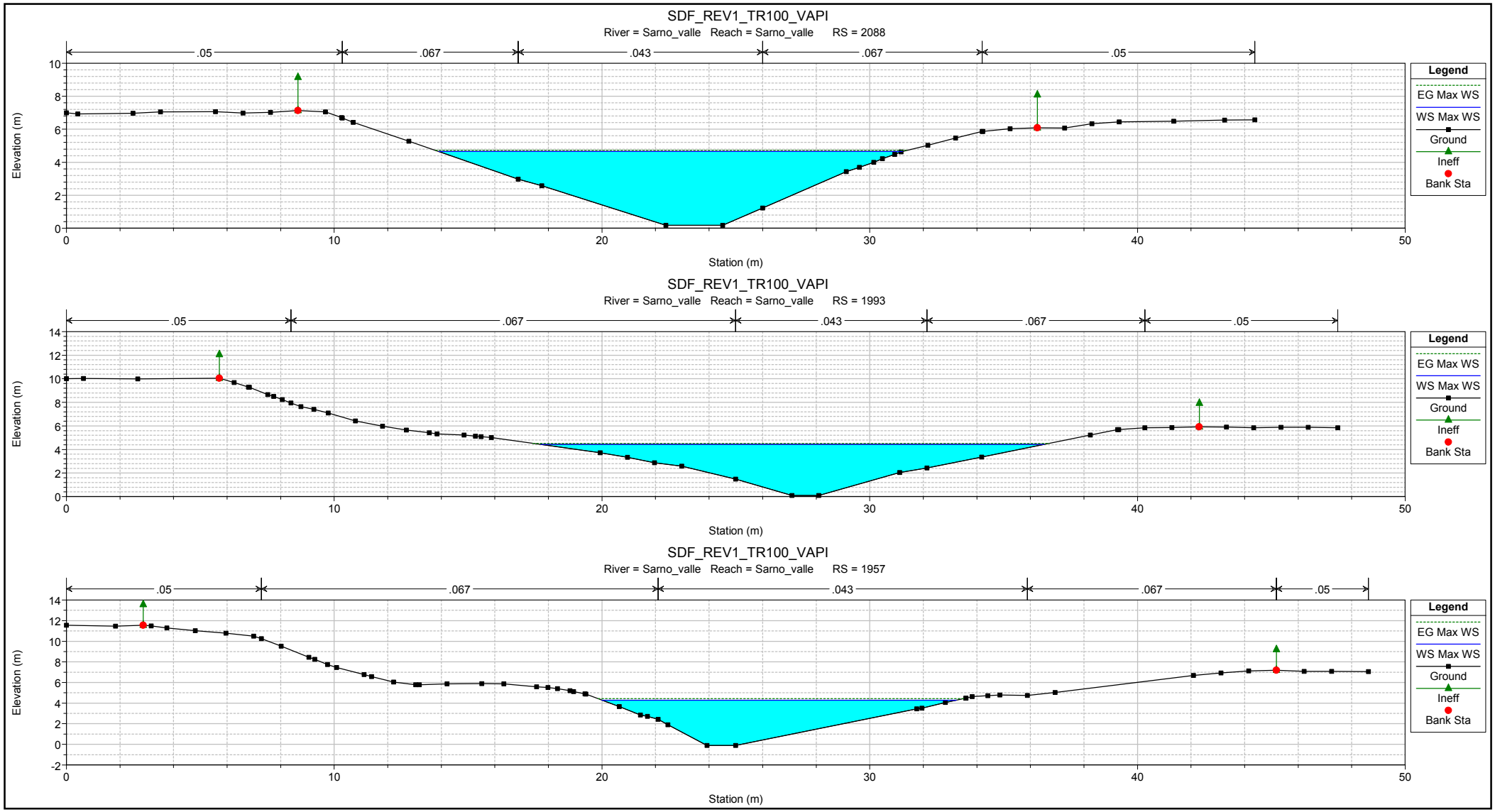

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3499
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3144
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3039
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

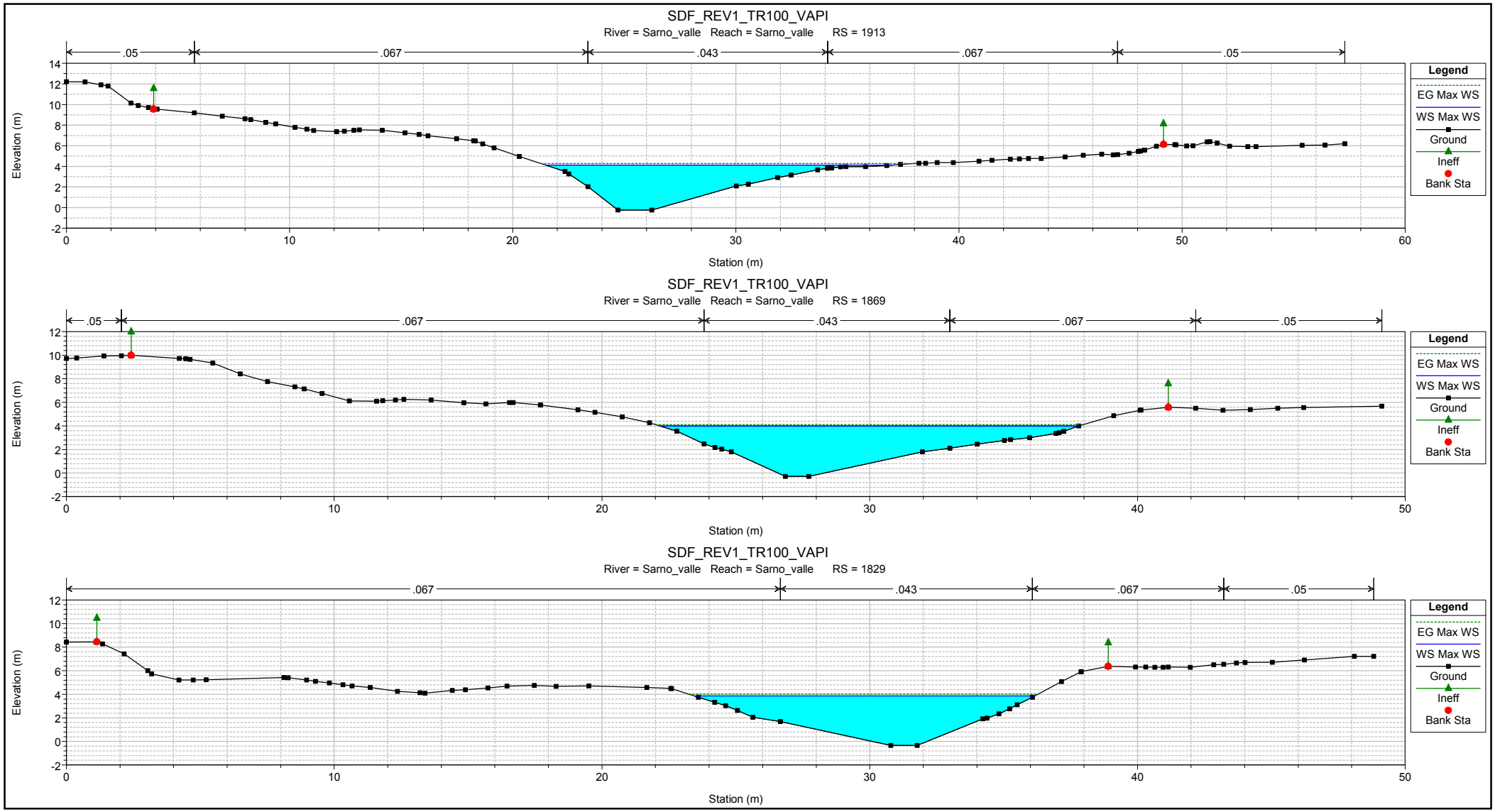

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3015
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2928
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2827
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

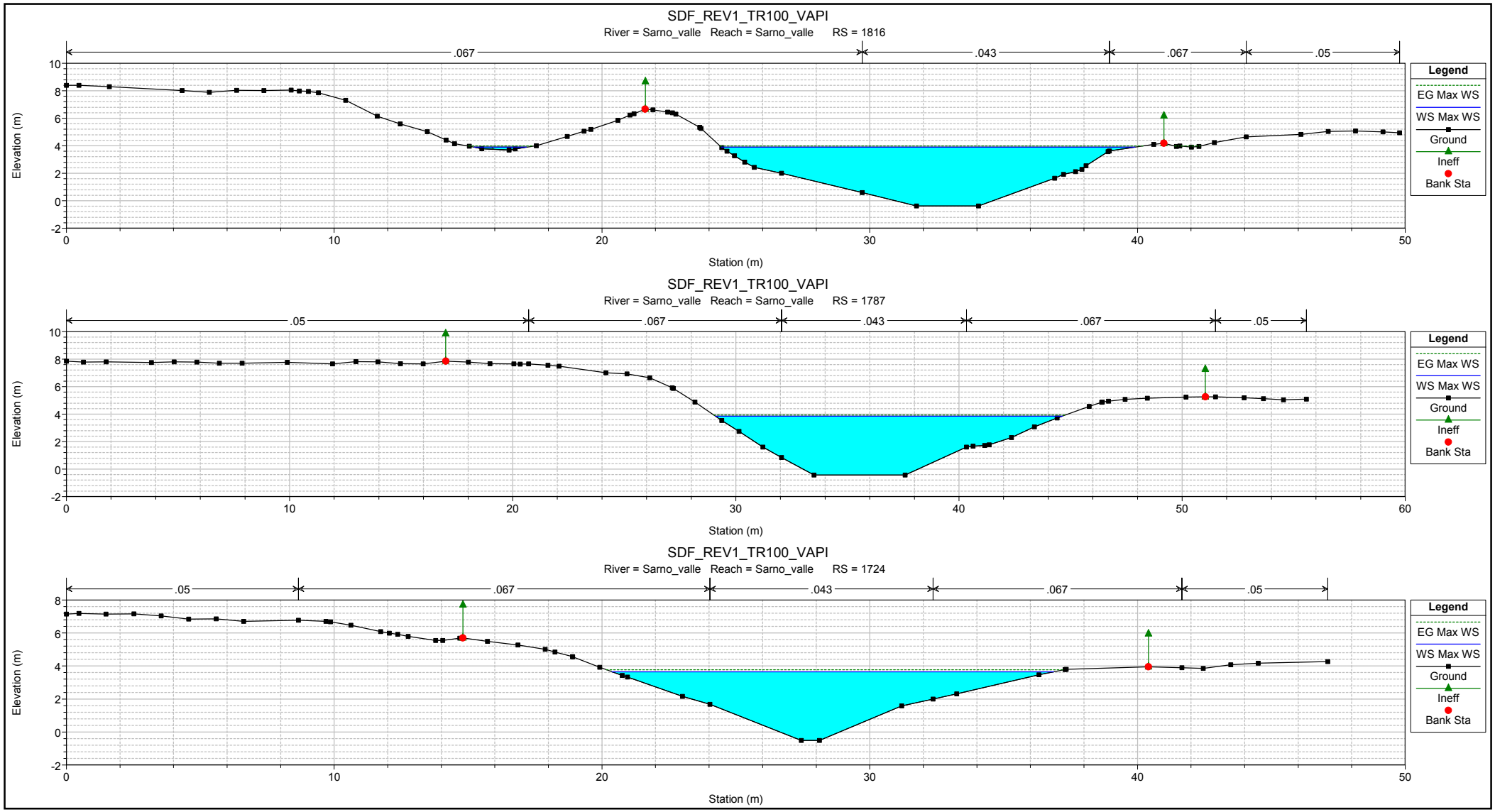

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2768
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2752
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2705
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

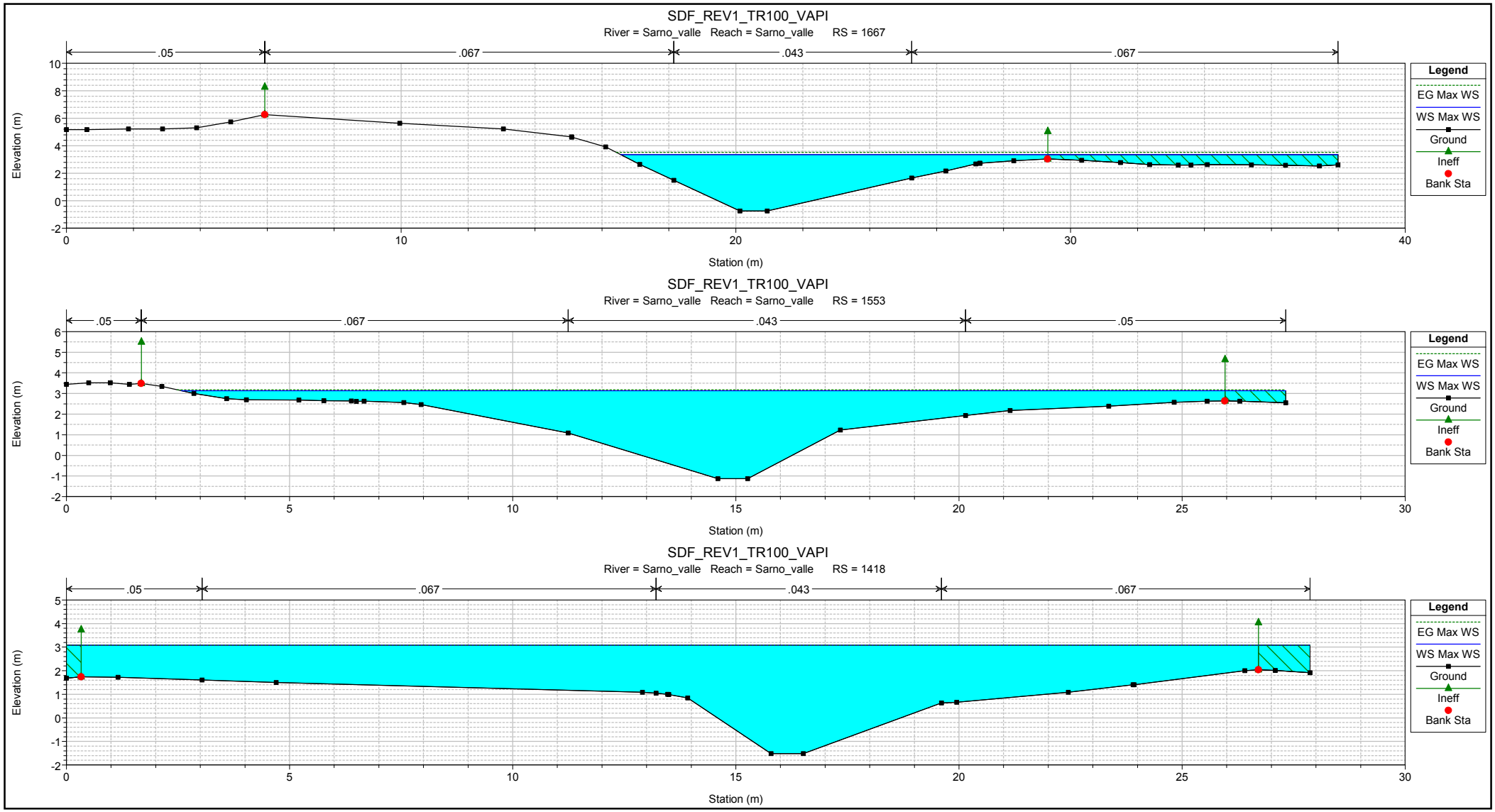

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2514
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2387
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2285
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

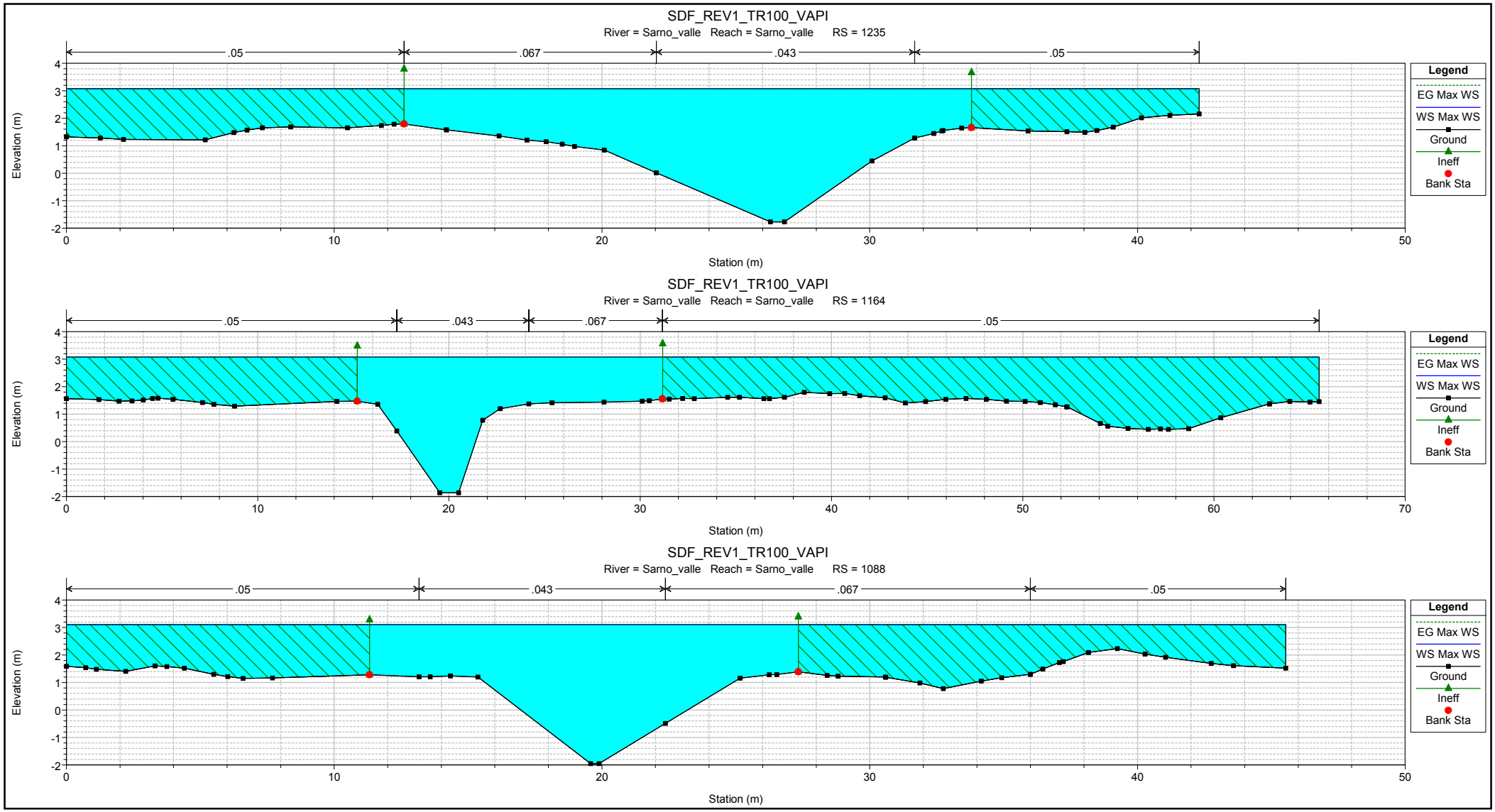

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2240
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2189
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

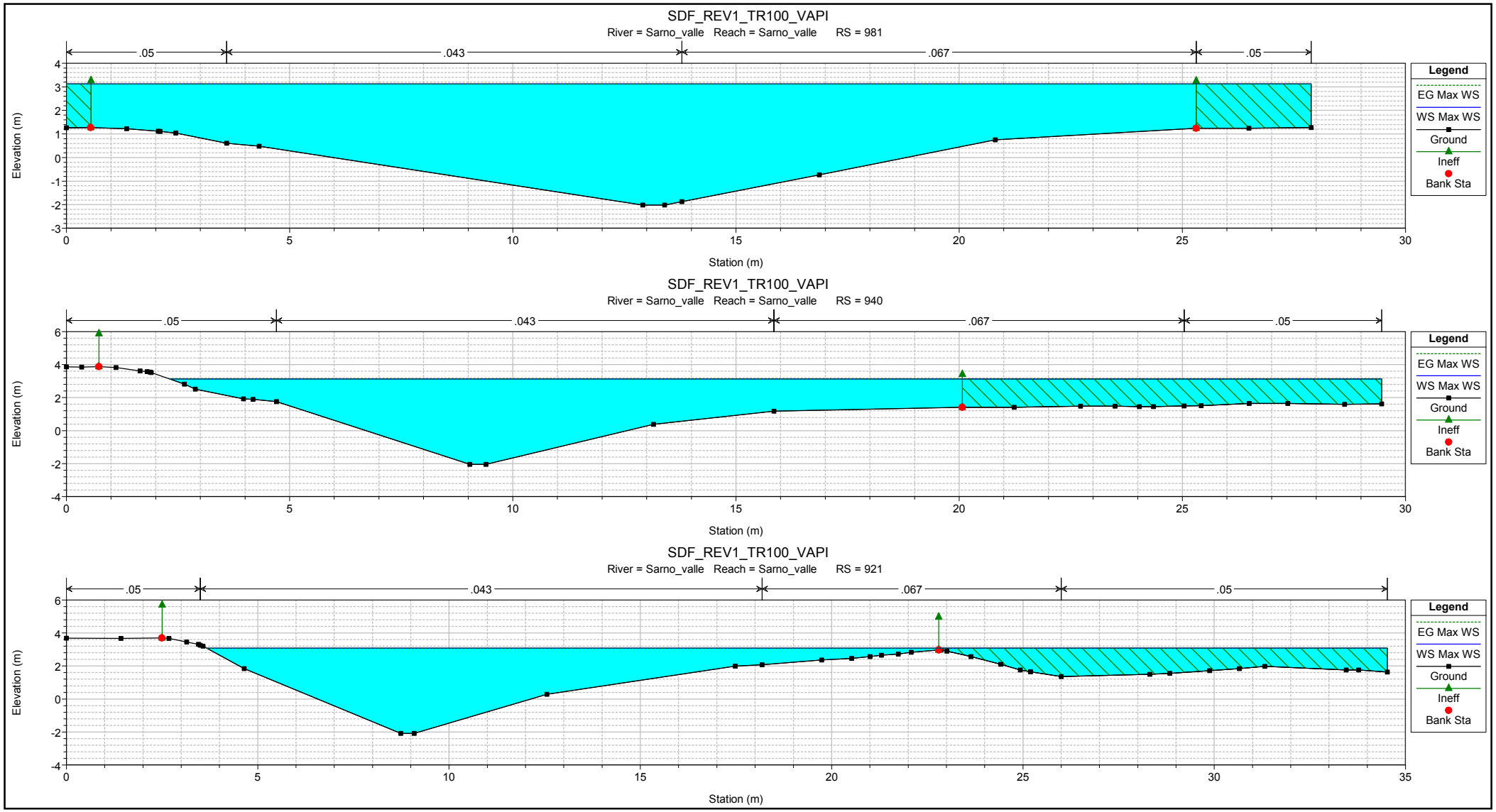

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2088
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1993
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1957
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

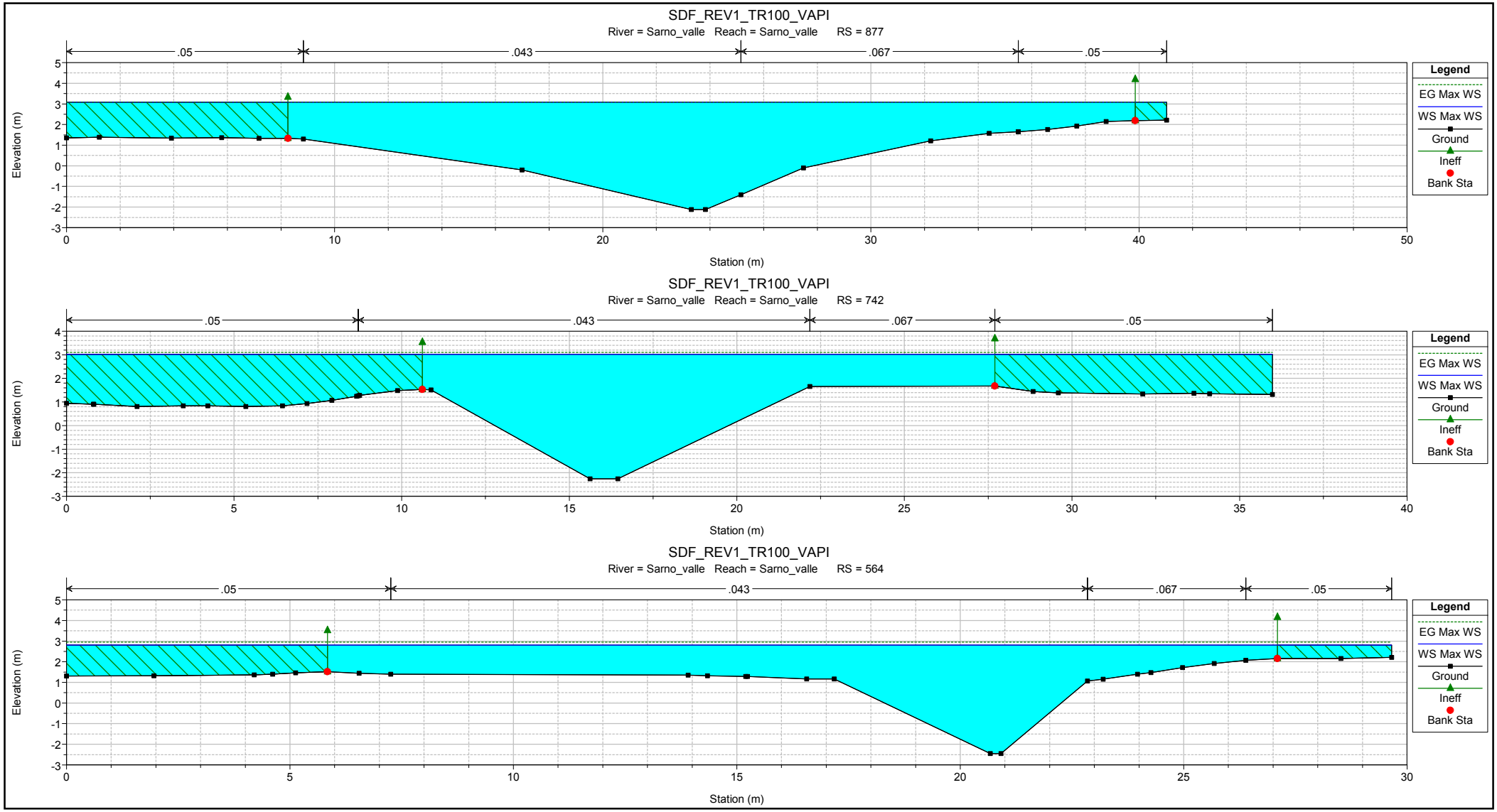

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1913
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1869
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1829
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

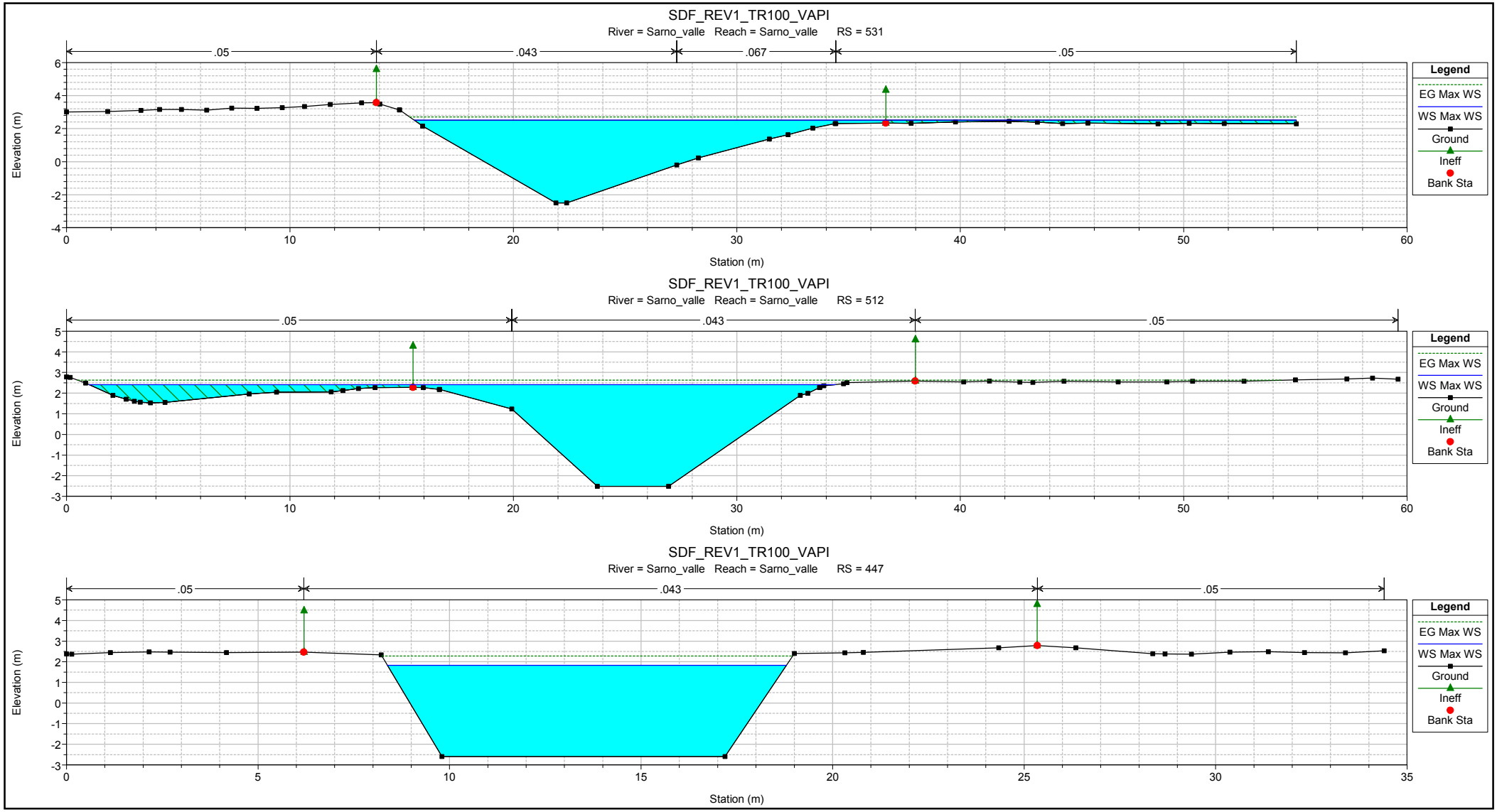

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1816
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1787
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1724
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

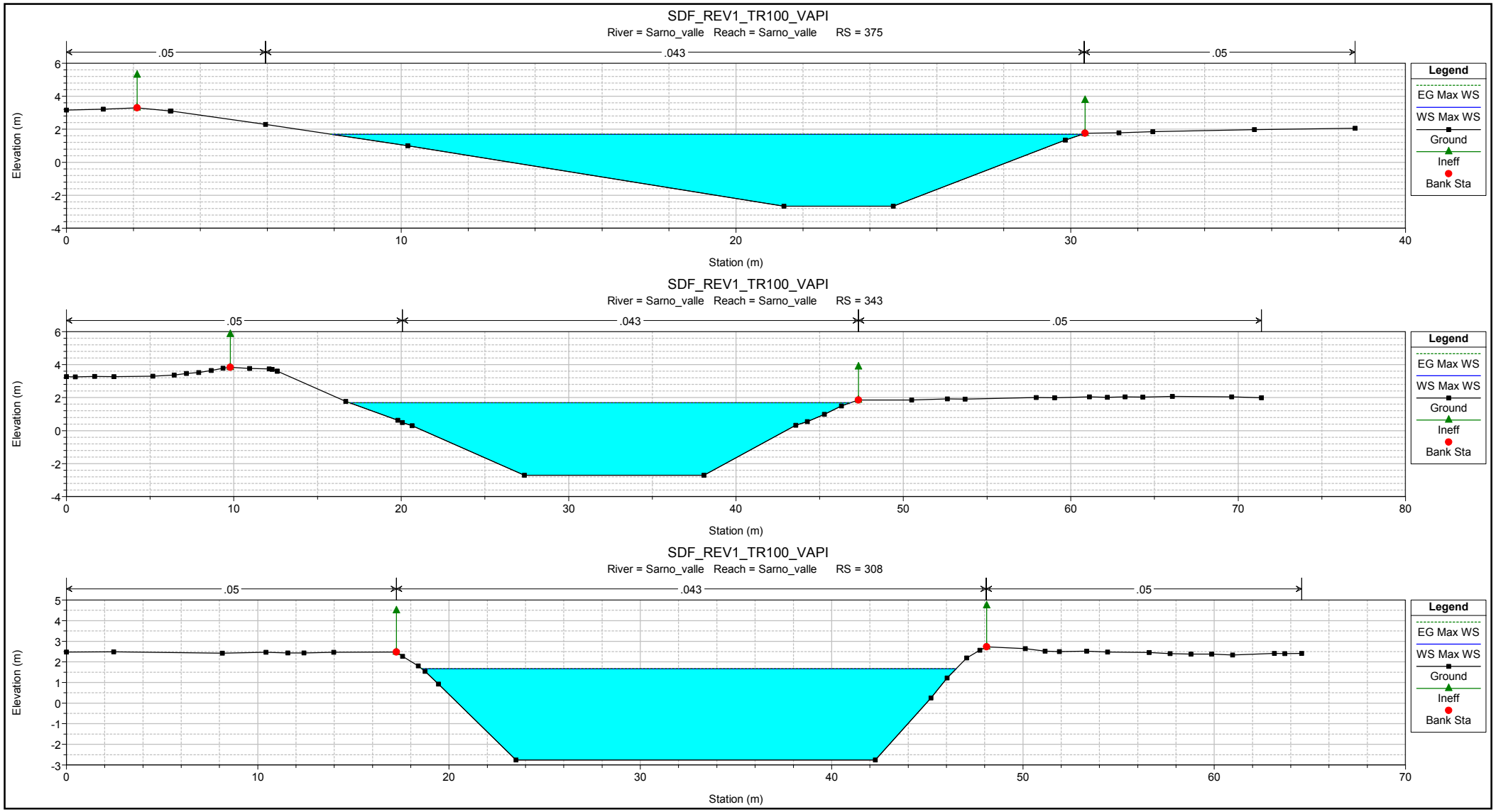

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1667
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1553
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1418
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

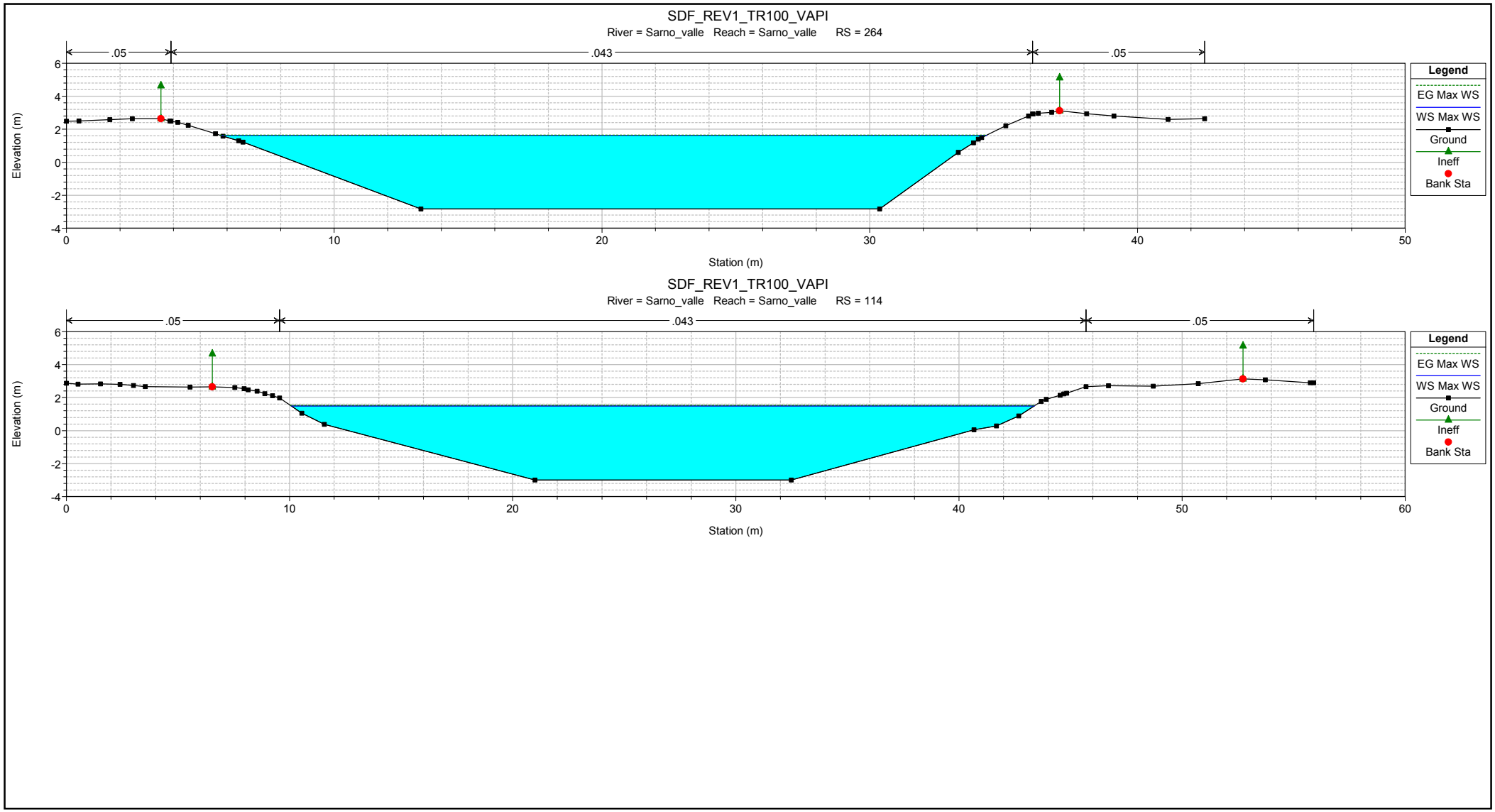

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1235
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1164
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1088
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 981
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 940
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 921
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

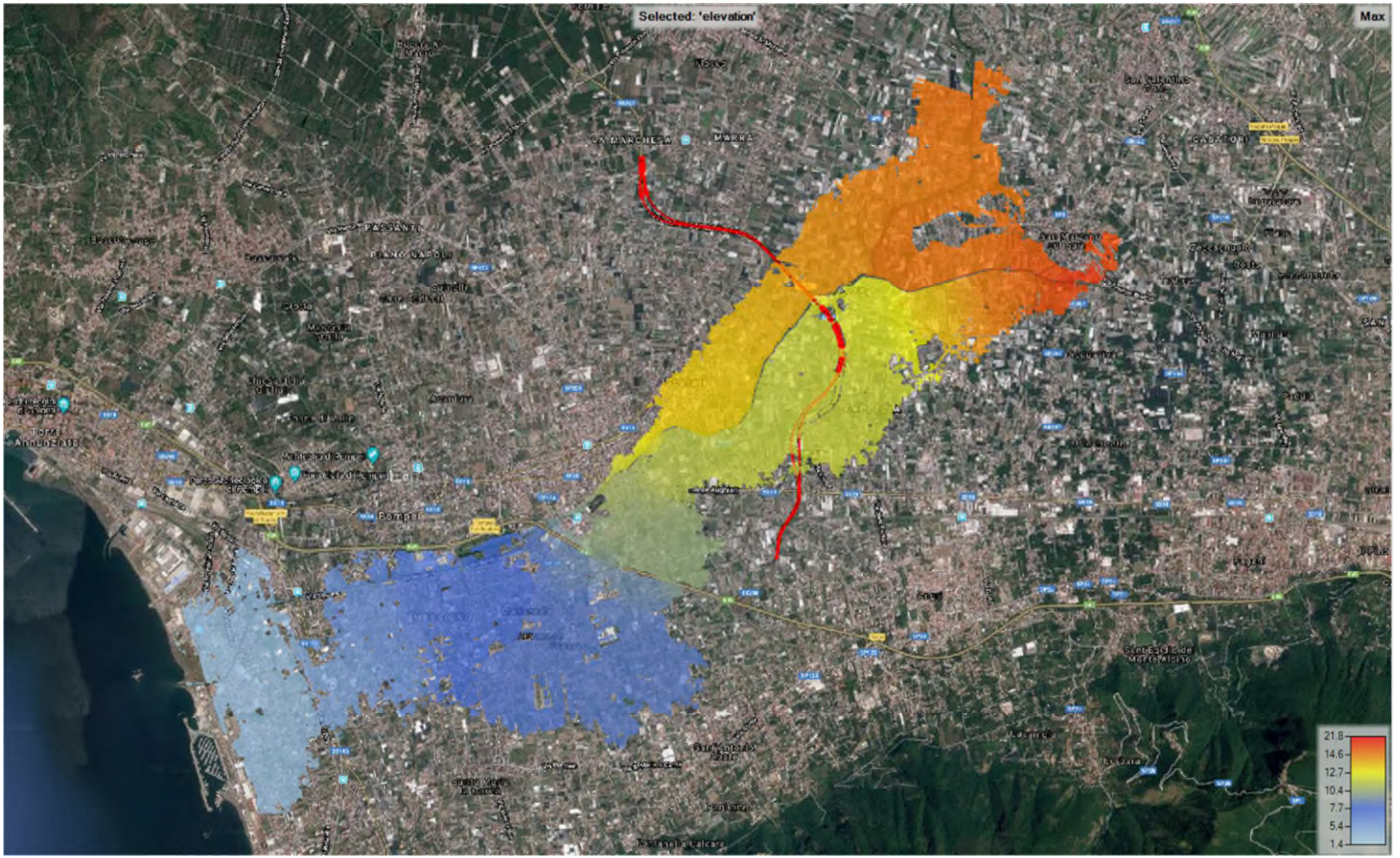

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 877
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 742
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 564
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 531
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 512
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 447
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

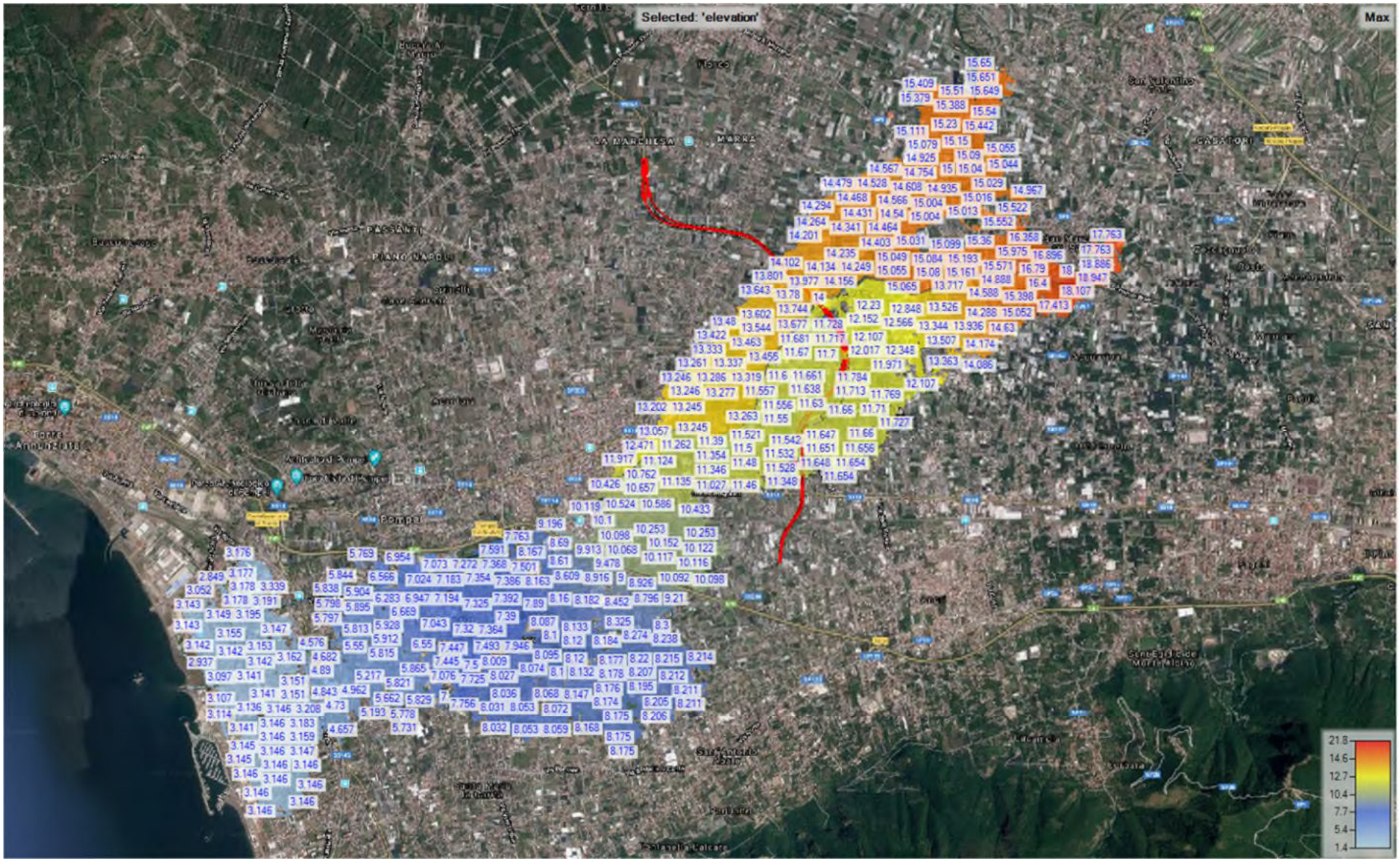

SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 375
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 343
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 308
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 264
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 114
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

2.1.3. Configurazione di stato di fatto Evento TR 200 anni



Inviluppo dei massimi livelli idrici



Inviluppo dei massimi livelli idrici (visualizzazione numerica del livello massimo)

HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	10158	Max WS	12.76	10.79	4.11	14.90	0.04	14.90	0.19	2.52
Sarno_valle	Sarno_valle	10156		Lat Struct							
Sarno_valle	Sarno_valle	10155		Lat Struct							
Sarno_valle	Sarno_valle	10050	Max WS	11.49	10.75	3.59	14.34	0.10	14.34	0.42	1.91
Sarno_valle	Sarno_valle	9965	Max WS	11.13	10.71	3.22	13.93	0.17	13.95	0.68	1.62
Sarno_valle	Sarno_valle	9887	Max WS	10.97	10.68	3.22	13.90	0.08	13.91	0.37	1.93
Sarno_valle	Sarno_valle	9824	Max WS	10.95	10.57	3.32	13.88	0.11	13.89	0.44	1.74
Sarno_valle	Sarno_valle	9751	Max WS	10.93	10.43	3.43	13.86	0.10	13.87	0.43	1.77
Sarno_valle	Sarno_valle	9629	Max WS	10.93	10.36	3.46	13.82	0.11	13.83	0.44	1.69
Sarno_valle	Sarno_valle	9518	Max WS	10.92	10.30	3.50	13.80	0.08	13.80	0.35	1.95
Sarno_valle	Sarno_valle	9435	Max WS	10.91	10.22	3.53	13.75	0.14	13.77	0.62	1.87
Sarno_valle	Sarno_valle	9396	Max WS	10.89	10.18	3.56	13.74	0.11	13.75	0.44	1.73
Sarno_valle	Sarno_valle	9363	Max WS	10.87	10.14	3.58	13.72	0.15	13.74	0.62	1.86
Sarno_valle	Sarno_valle	9318	Max WS	10.83	10.10	3.59	13.69	0.15	13.71	0.60	1.55
Sarno_valle	Sarno_valle	9130	Max WS	10.49	9.90	3.73	13.63	0.07	13.63	0.29	1.96
Sarno_valle	Sarno_valle	8979	Max WS	10.23	9.75	3.84	13.59	0.11	13.60	0.45	1.83
Sarno_valle	Sarno_valle	8789	Max WS	8.73	9.60	3.95	13.55	0.06	13.56	0.27	1.93
Sarno_valle	Sarno_valle	8648	Max WS	11.97	9.45	4.06	13.51	0.10	13.52	0.44	1.90
Sarno_valle	Sarno_valle	8574	Max WS	18.29	9.37	4.10	13.47	0.12	13.49	0.49	1.62
Sarno_valle	Sarno_valle	8311	Max WS	29.62	9.25	4.08	13.33	0.14	13.35	0.63	2.01
Sarno_valle	Sarno_valle	8123	Max WS	30.35	9.08	4.14	13.22	0.14	13.24	0.65	2.33
Sarno_valle	Sarno_valle	7939	Max WS	19.19	8.98	4.19	13.17	0.10	13.18	0.47	2.18
Sarno_valle	Sarno_valle	7710	Max WS	-12.96	8.80	4.36	13.16	0.06	13.16	-0.26	2.14
Sarno_valle	Sarno_valle	7544	Max WS	-18.62	8.63	4.55	13.18	0.08	13.18	-0.35	2.01
Sarno_valle	Sarno_valle	7437	Max WS	0.34	8.41	4.79	13.20	0.00	13.20	0.01	2.32
Sarno_valle	Sarno_valle	7410	Max WS	16.57	8.41	4.78	13.19	0.06	13.19	0.32	2.41
Sarno_valle	Sarno_valle	7388	Max WS	32.94	8.40	4.75	13.15	0.13	13.17	0.63	2.38
Sarno_valle	Sarno_valle	7351	Max WS	49.62	8.37	4.68	13.05	0.24	13.10	1.01	1.85
Sarno_valle	Sarno_valle	7310	Max WS	45.19	8.32	4.67	12.99	0.22	13.05	1.05	2.29
Sarno_valle	Sarno_valle	7220	Max WS	18.39	8.21	4.81	13.02	0.09	13.02	0.42	2.17
Sarno_valle	Sarno_valle	7143	Max WS	-2.70	8.20	4.82	13.02	0.01	13.02	-0.06	1.74
Sarno_valle	Sarno_valle	7121	Max WS	-3.23	8.20	4.82	13.02	0.02	13.02	-0.07	2.13

HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	7042	Max WS	-17.95	8.18	4.84	13.02	0.07	13.02	-0.34	2.46
Sarno_valle	Sarno_valle	6896	Max WS	-22.36	8.10	4.94	13.04	0.08	13.05	-0.40	2.52
Sarno_valle	Sarno_valle	6751	Max WS	10.81	8.03	5.03	13.06	0.04	13.06	0.20	2.46
Sarno_valle	Sarno_valle	6575	Max WS	49.67	7.96	4.92	12.88	0.19	12.92	0.85	2.05
Sarno_valle	Sarno_valle	6325	Max WS	61.12	7.86	4.35	12.21	0.27	12.30	1.30	2.32
Sarno_valle	Sarno_valle	6158	Max WS	32.29	7.79	4.29	12.08	0.17	12.12	0.80	2.21
Sarno_valle	Sarno_valle	6097	Max WS	41.12	7.34	4.65	11.99	0.20	12.04	1.00	2.56
Sarno_valle	Sarno_valle	6081	Max WS	57.73	7.26	4.54	11.80	0.33	11.93	1.63	2.48
Sarno_valle	Sarno_valle	6076	Max WS	54.75	7.25	4.57	11.82	0.27	11.91	1.26	2.31
Sarno_valle	Sarno_valle	6049	Max WS	36.62	7.21	4.67	11.88	0.19	11.92	0.89	2.20
Sarno_valle	Sarno_valle	5980	Max WS	64.62	7.09	4.26	11.35	0.51	11.61	2.26	2.04
Sarno_valle	Sarno_valle	5917	Max WS	64.26	6.98	4.19	11.17	0.35	11.31	1.65	2.25
Sarno_valle	Sarno_valle	5881	Max WS	126.00	5.85	5.07	10.92	0.28	11.03	1.46	2.73
Sarno_valle	Sarno_valle	5861	Max WS	169.16	5.84	4.76	10.60	0.39	10.82	2.08	2.88
Sarno_valle	Sarno_valle	5812	Max WS	96.66	5.79	4.88	10.67	0.27	10.78	1.57	2.94
Sarno_valle	Sarno_valle	5744	Max WS	72.52	5.71	4.99	10.70	0.25	10.81	1.42	3.20
Sarno_valle	Sarno_valle	5662	Max WS	60.79	5.59	4.99	10.58	0.29	10.69	1.43	2.47
Sarno_valle	Sarno_valle	5604	Max WS	49.55	5.54	4.47	10.01	0.59	10.36	2.65	2.07
Sarno_valle	Sarno_valle	5552	Max WS	46.91	5.35	4.51	9.86	0.29	9.96	1.42	2.47
Sarno_valle	Sarno_valle	5478	Max WS	46.97	5.26	4.50	9.76	0.16	9.79	0.76	2.23
Sarno_valle	Sarno_valle	5415	Max WS	41.84	4.41	5.43	9.84	0.10	9.86	0.58	2.95
Sarno_valle	Sarno_valle	5359	Max WS	113.26	4.40	5.33	9.73	0.24	9.82	1.36	2.87
Sarno_valle	Sarno_valle	5279	Max WS	65.73	4.31	5.38	9.69	0.15	9.72	0.81	2.98
Sarno_valle	Sarno_valle	5251	Max WS	76.37	4.29	5.18	9.47	0.37	9.61	1.66	2.09
Sarno_valle	Sarno_valle	5222	Max WS	70.21	4.21	5.20	9.41	0.21	9.48	1.18	3.35
Sarno_valle	Sarno_valle	5206	Max WS	68.61	4.14	5.26	9.40	0.19	9.45	0.99	2.82
Sarno_valle	Sarno_valle	5199	Max WS	67.83	4.13	5.23	9.36	0.25	9.44	1.23	2.39
Sarno_valle	Sarno_valle	5145	Max WS	61.11	4.11	5.25	9.36	0.15	9.40	0.86	3.23
Sarno_valle	Sarno_valle	5137	Max WS	59.96	4.10	5.24	9.34	0.23	9.41	1.11	2.47
Sarno_valle	Sarno_valle	5131	Max WS	65.17	4.09	5.12	9.21	0.46	9.38	1.82	1.62
Sarno_valle	Sarno_valle	5107	Max WS	41.60	4.07	5.11	9.18	0.12	9.20	0.63	2.62
Sarno_valle	Sarno_valle	5074	Max WS	42.22	4.05	5.19	9.24	0.16	9.27	0.79	2.43

HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	5013	Max WS	51.19	4.01	5.13	9.14	0.19	9.19	0.93	2.37
Sarno_valle	Sarno_valle	4982	Max WS	69.49	3.99	5.06	9.05	0.19	9.09	0.99	2.75
Sarno_valle	Sarno_valle	4928	Max WS	94.06	3.87	4.68	8.55	0.51	8.83	2.33	2.16
Sarno_valle	Sarno_valle	4906	Max WS	95.89	3.74	4.67	8.41	0.46	8.64	2.10	2.13
Sarno_valle	Sarno_valle	4785	Max WS	30.18	3.44	4.89	8.33	0.11	8.34	0.53	2.36
Sarno_valle	Sarno_valle	4706	Max WS	47.35	3.38	4.82	8.20	0.19	8.24	0.88	2.29
Sarno_valle	Sarno_valle	4661	Max WS	55.53	3.38	4.78	8.16	0.19	8.20	0.86	2.14
Sarno_valle	Sarno_valle	4625	Max WS	61.92	3.28	4.79	8.07	0.23	8.14	1.11	2.38
Sarno_valle	Sarno_valle	4603	Max WS	58.30	3.27	4.83	8.10	0.17	8.13	0.79	2.11
Sarno_valle	Sarno_valle	4568	Max WS	60.44	3.25	4.85	8.10	0.15	8.13	0.78	2.79
Sarno_valle	Sarno_valle	4531	Max WS	50.01	3.22	4.91	8.13	0.11	8.15	0.60	2.74
Sarno_valle	Sarno_valle	4463	Max WS	58.21	3.20	4.84	8.04	0.19	8.07	0.81	1.77
Sarno_valle	Sarno_valle	4351	Max WS	60.42	3.18	4.52	7.70	0.33	7.80	1.46	1.93
Sarno_valle	Sarno_valle	4284	Max WS	46.73	3.06	4.57	7.63	0.20	7.66	0.83	1.69
Sarno_valle	Sarno_valle	4061	Max WS	42.61	2.68	4.73	7.41	0.19	7.45	0.82	2.02
Sarno_valle	Sarno_valle	3919	Max WS	39.30	2.48	4.80	7.28	0.18	7.31	0.87	2.33
Sarno_valle	Sarno_valle	3863	Max WS	44.37	2.38	4.85	7.23	0.14	7.26	0.72	2.59
Sarno_valle	Sarno_valle	3844	Max WS	42.80	2.37	4.86	7.23	0.12	7.25	0.61	2.70
Sarno_valle	Sarno_valle	3800	Max WS	36.16	2.24	5.02	7.26	0.09	7.28	0.50	3.19
Sarno_valle	Sarno_valle	3685	Max WS	28.63	2.10	5.09	7.19	0.10	7.20	0.51	2.55
Sarno_valle	Sarno_valle	3499	Max WS	41.11	1.84	5.27	7.11	0.12	7.13	0.64	2.73
Sarno_valle	Sarno_valle	3144	Max WS	54.44	1.41	5.49	6.90	0.18	6.94	0.89	2.60
Sarno_valle	Sarno_valle	3039	Max WS	64.50	1.34	5.50	6.84	0.15	6.88	0.87	3.35
Sarno_valle	Sarno_valle	3015	Max WS	62.31	1.32	5.43	6.75	0.26	6.84	1.32	2.53
Sarno_valle	Sarno_valle	2928	Max WS	53.48	1.27	5.39	6.66	0.20	6.71	1.01	2.59
Sarno_valle	Sarno_valle	2827	Max WS	51.47	1.14	5.20	6.34	0.36	6.47	1.62	2.03
Sarno_valle	Sarno_valle	2768	Max WS	51.24	1.00	5.26	6.26	0.21	6.31	1.00	2.35
Sarno_valle	Sarno_valle	2752	Max WS	51.17	0.96	5.22	6.18	0.33	6.28	1.41	1.86
Sarno_valle	Sarno_valle	2705	Max WS	44.25	0.88	5.24	6.12	0.21	6.17	0.94	1.99
Sarno_valle	Sarno_valle	2514	Max WS	49.26	0.70	5.16	5.86	0.18	5.90	0.86	2.33
Sarno_valle	Sarno_valle	2387	Max WS	18.61	0.52	5.34	5.86	0.05	5.87	0.29	3.28
Sarno_valle	Sarno_valle	2285	Max WS	55.83	0.40	5.26	5.66	0.25	5.72	1.11	1.97

HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS (Continued)

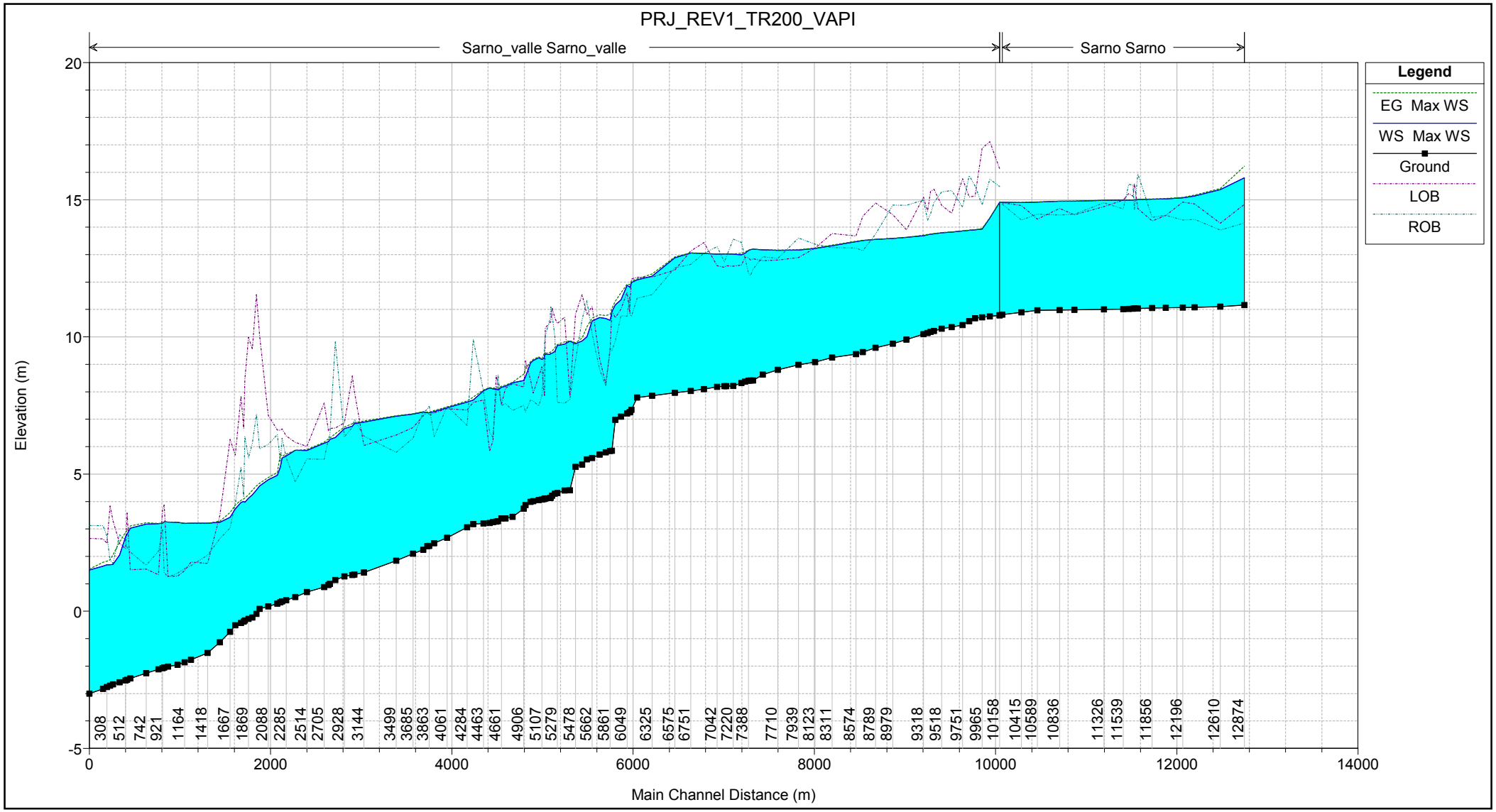
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	2240	Max WS	56.36	0.36	5.22	5.58	0.22	5.65	1.16	2.73
Sarno_valle	Sarno_valle	2220	Max WS	56.36	0.33	4.92	5.25	0.73	5.72	3.03	1.74
Sarno_valle	Sarno_valle	2189	Max WS	56.35	0.28	4.68	4.96	0.28	5.05	1.36	2.46
Sarno_valle	Sarno_valle	2088	Max WS	56.35	0.18	4.61	4.79	0.25	4.87	1.23	2.55
Sarno_valle	Sarno_valle	1993	Max WS	56.35	0.09	4.48	4.57	0.30	4.66	1.37	2.10
Sarno_valle	Sarno_valle	1957	Max WS	56.35	-0.10	4.52	4.42	0.36	4.57	1.73	2.39
Sarno_valle	Sarno_valle	1913	Max WS	56.35	-0.23	4.48	4.25	0.41	4.41	1.77	1.92
Sarno_valle	Sarno_valle	1869	Max WS	56.34	-0.28	4.40	4.12	0.33	4.24	1.55	2.28
Sarno_valle	Sarno_valle	1829	Max WS	56.34	-0.34	4.31	3.97	0.35	4.13	1.75	2.48
Sarno_valle	Sarno_valle	1816	Max WS	56.33	-0.38	4.38	4.00	0.26	4.09	1.34	2.65
Sarno_valle	Sarno_valle	1787	Max WS	56.20	-0.43	4.39	3.96	0.25	4.04	1.29	2.76
Sarno_valle	Sarno_valle	1724	Max WS	55.66	-0.51	4.24	3.73	0.37	3.87	1.64	2.01
Sarno_valle	Sarno_valle	1667	Max WS	49.96	-0.75	4.18	3.43	0.39	3.60	1.81	2.15
Sarno_valle	Sarno_valle	1553	Max WS	33.79	-1.13	4.37	3.24	0.22	3.28	0.89	1.61
Sarno_valle	Sarno_valle	1418	Max WS	7.02	-1.52	4.73	3.21	0.02	3.21	0.12	2.27
Sarno_valle	Sarno_valle	1235	Max WS	13.19	-1.77	4.98	3.21	0.04	3.21	0.22	2.81
Sarno_valle	Sarno_valle	1164	Max WS	7.64	-1.86	5.06	3.20	0.04	3.21	0.19	2.51
Sarno_valle	Sarno_valle	1088	Max WS	-2.91	-1.95	5.19	3.24	0.01	3.24	-0.06	3.03
Sarno_valle	Sarno_valle	981	Max WS	-12.00	-2.02	5.27	3.25	0.02	3.25	-0.14	3.42
Sarno_valle	Sarno_valle	940	Max WS	11.48	-2.05	5.31	3.26	0.04	3.26	0.23	2.76
Sarno_valle	Sarno_valle	921	Max WS	-6.75	-2.08	5.29	3.21	0.03	3.21	-0.15	2.33
Sarno_valle	Sarno_valle	877	Max WS	-17.33	-2.12	5.32	3.20	0.04	3.20	-0.19	2.92
Sarno_valle	Sarno_valle	742	Max WS	-48.98	-2.26	5.44	3.18	0.18	3.23	-0.98	2.93
Sarno_valle	Sarno_valle	564	Max WS	57.13	-2.45	5.48	3.03	0.27	3.11	1.24	2.17
Sarno_valle	Sarno_valle	531	Max WS	89.90	-2.50	5.31	2.81	0.33	2.95	1.66	2.52
Sarno_valle	Sarno_valle	512	Max WS	95.19	-2.52	5.23	2.71	0.38	2.88	1.81	2.34
Sarno_valle	Sarno_valle	447	Max WS	126.54	-2.59	4.64	2.05	0.49	2.52	3.04	3.94
Sarno_valle	Sarno_valle	375	Max WS	145.98	-2.66	4.37	1.71	0.53	2.06	2.61	2.49
Sarno_valle	Sarno_valle	343	Max WS	164.83	-2.71	4.41	1.70	0.35	1.88	1.88	2.92
Sarno_valle	Sarno_valle	308	Max WS	165.58	-2.76	4.46	1.70	0.26	1.82	1.59	3.72
Sarno_valle	Sarno_valle	264	Max WS	165.58	-2.83	4.48	1.65	0.28	1.78	1.63	3.55
Sarno_valle	Sarno_valle	114	Max WS	-89.90	-3.00	4.50	1.50	0.15	1.54	-0.85	3.18

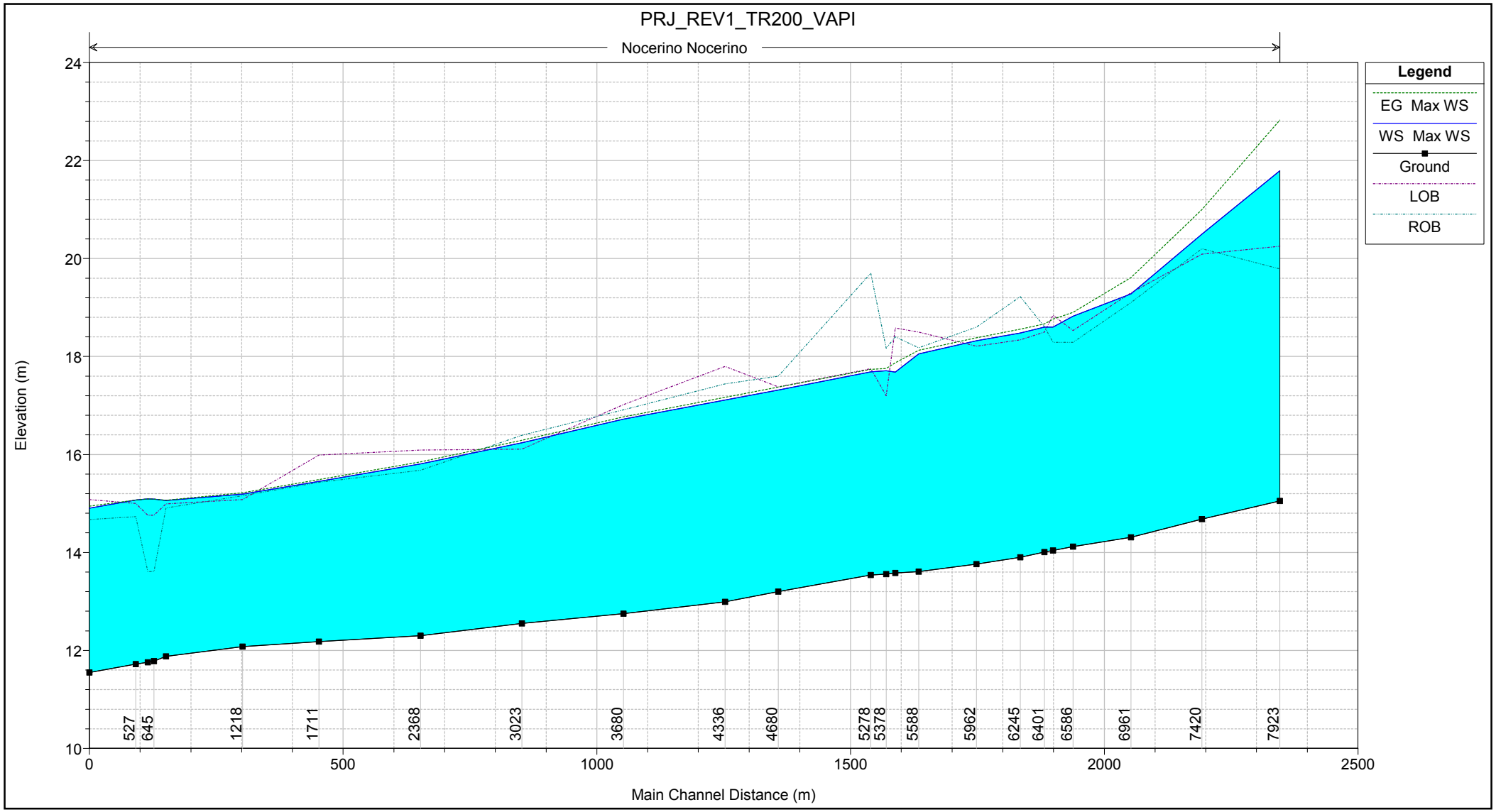
HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS (Continued)

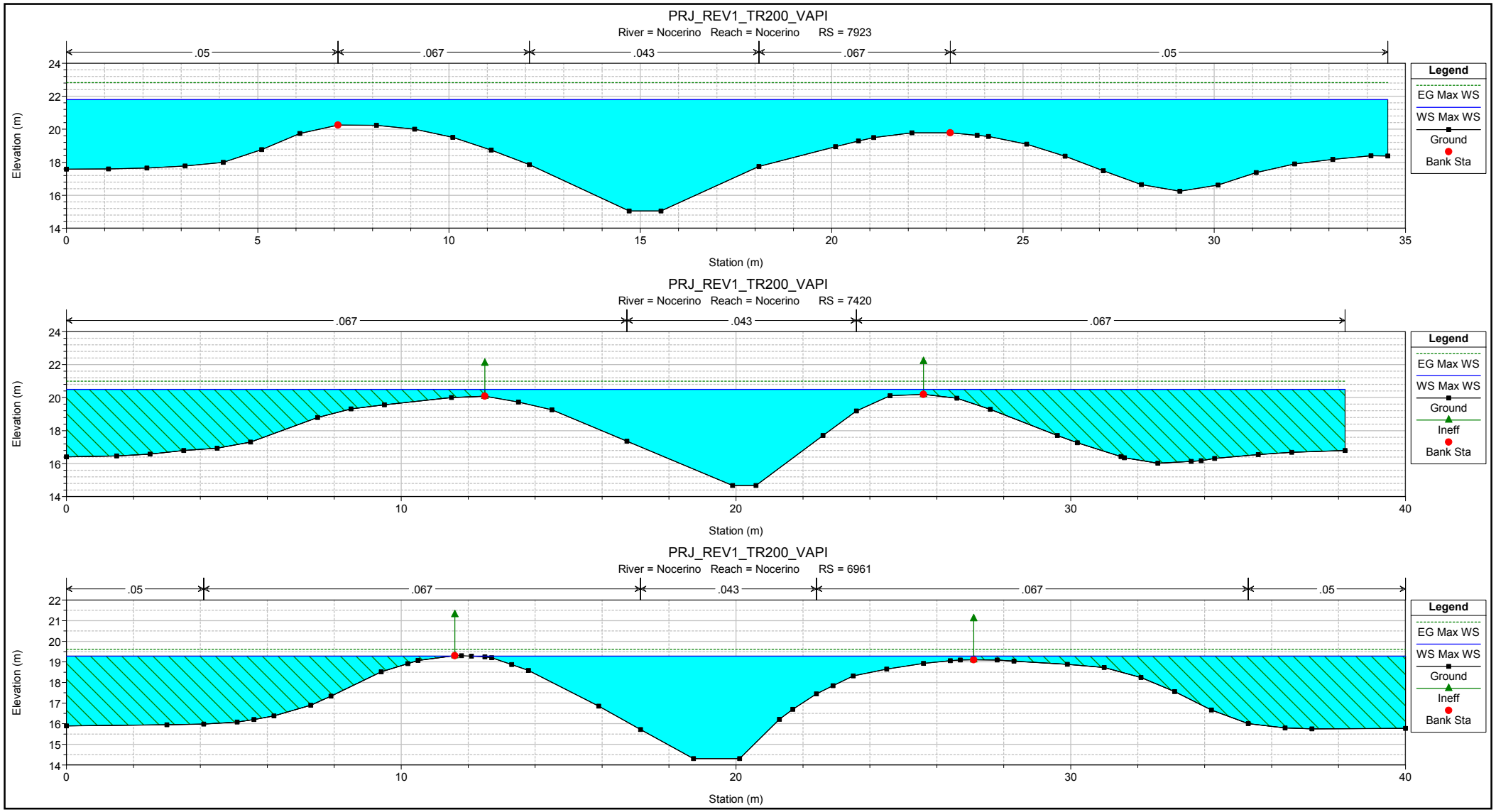
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno	Sarno	12874	Max WS	310.10	11.16	4.64	15.80	0.60	16.22	3.15	2.17
Sarno	Sarno	12873		Lat Struct							
Sarno	Sarno	12872		Lat Struct							
Sarno	Sarno	12610	Max WS	50.19	11.10	4.27	15.37	0.17	15.41	0.83	2.42
Sarno	Sarno	12325	Max WS	44.08	11.08	4.06	15.14	0.17	15.17	0.79	2.29
Sarno	Sarno	12196	Max WS	42.06	11.07	4.00	15.07	0.11	15.08	0.57	2.70
Sarno	Sarno	12006	Max WS	45.75	11.06	3.97	15.03	0.12	15.05	0.56	2.38
Sarno	Sarno	11856	Max WS	16.07	11.05	3.97	15.02	0.06	15.03	0.29	2.12
Sarno	Sarno	11698	Max WS	19.67	11.04	3.97	15.01	0.06	15.01	0.30	2.44
Sarno	Sarno	11660	Max WS	19.29	11.03	3.96	15.00	0.09	15.00	0.37	1.81
Sarno	Sarno	11647	Max WS	18.72	11.02	3.97	14.99	0.10	15.00	0.42	1.76
Sarno	Sarno	11598	Max WS	18.66	11.02	3.97	14.99	0.06	14.99	0.30	2.73
Sarno	Sarno	11539	Max WS	16.80	11.01	3.98	14.99	0.05	14.99	0.23	2.15
Sarno	Sarno	11326	Max WS	7.18	11.00	3.98	14.98	0.02	14.98	0.10	2.21
Sarno	Sarno	11000	Max WS	31.77	10.99	3.96	14.95	0.07	14.96	0.36	2.48
Sarno	Sarno	10836	Max WS	14.76	10.98	3.97	14.95	0.05	14.95	0.22	2.26
Sarno	Sarno	10589	Max WS	35.89	10.97	3.94	14.91	0.08	14.92	0.39	2.51
Sarno	Sarno	10415	Max WS	22.36	10.90	4.00	14.90	0.09	14.91	0.38	1.66
Sarno	Sarno	10205	Max WS	-5.51	10.81	4.09	14.90	0.02	14.90	-0.10	1.79

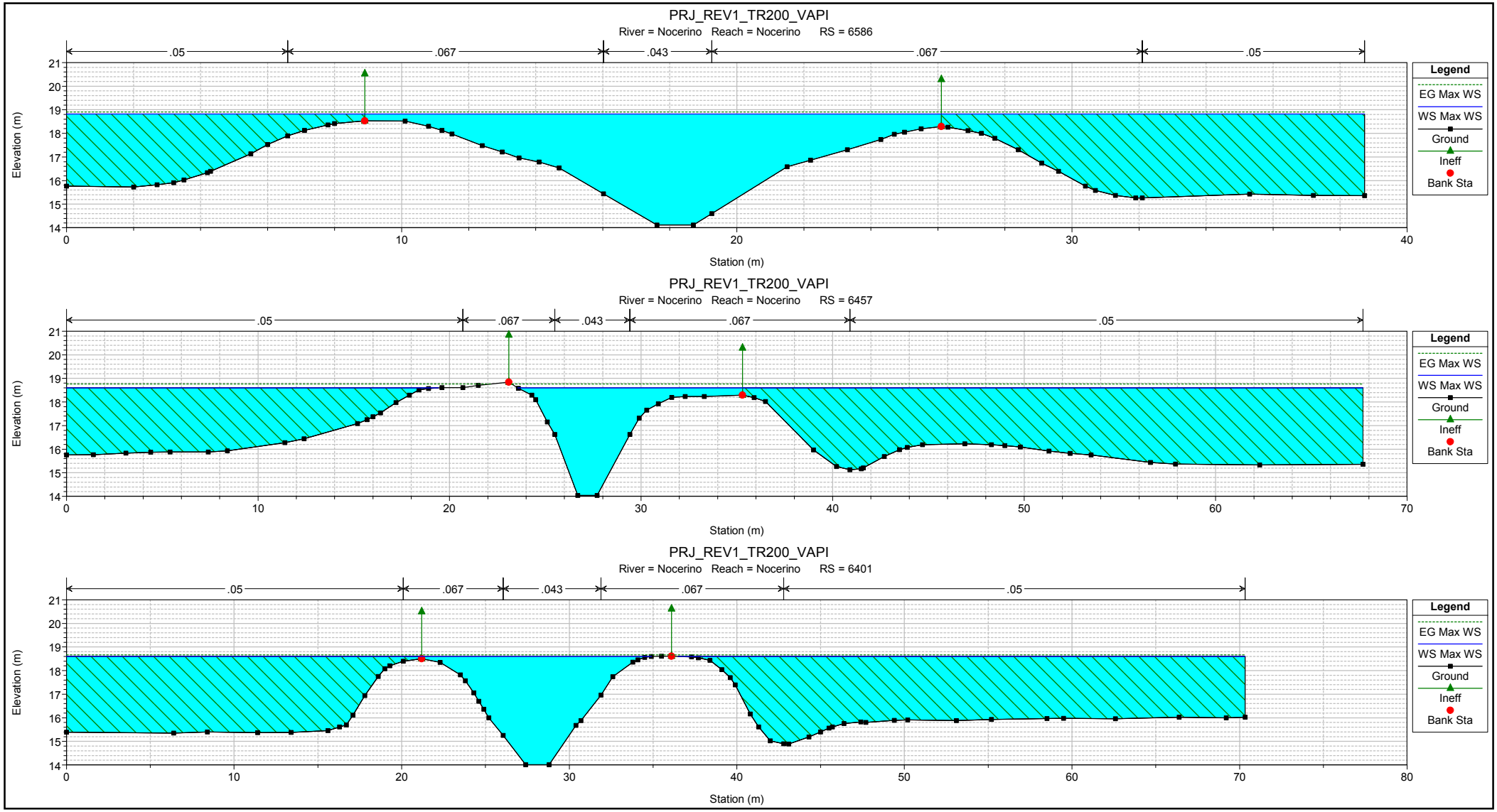
HEC-RAS Plan: PRJ_REV1_TR200_VAPI River: Nocerino Reach: Nocerino Profile: Max WS

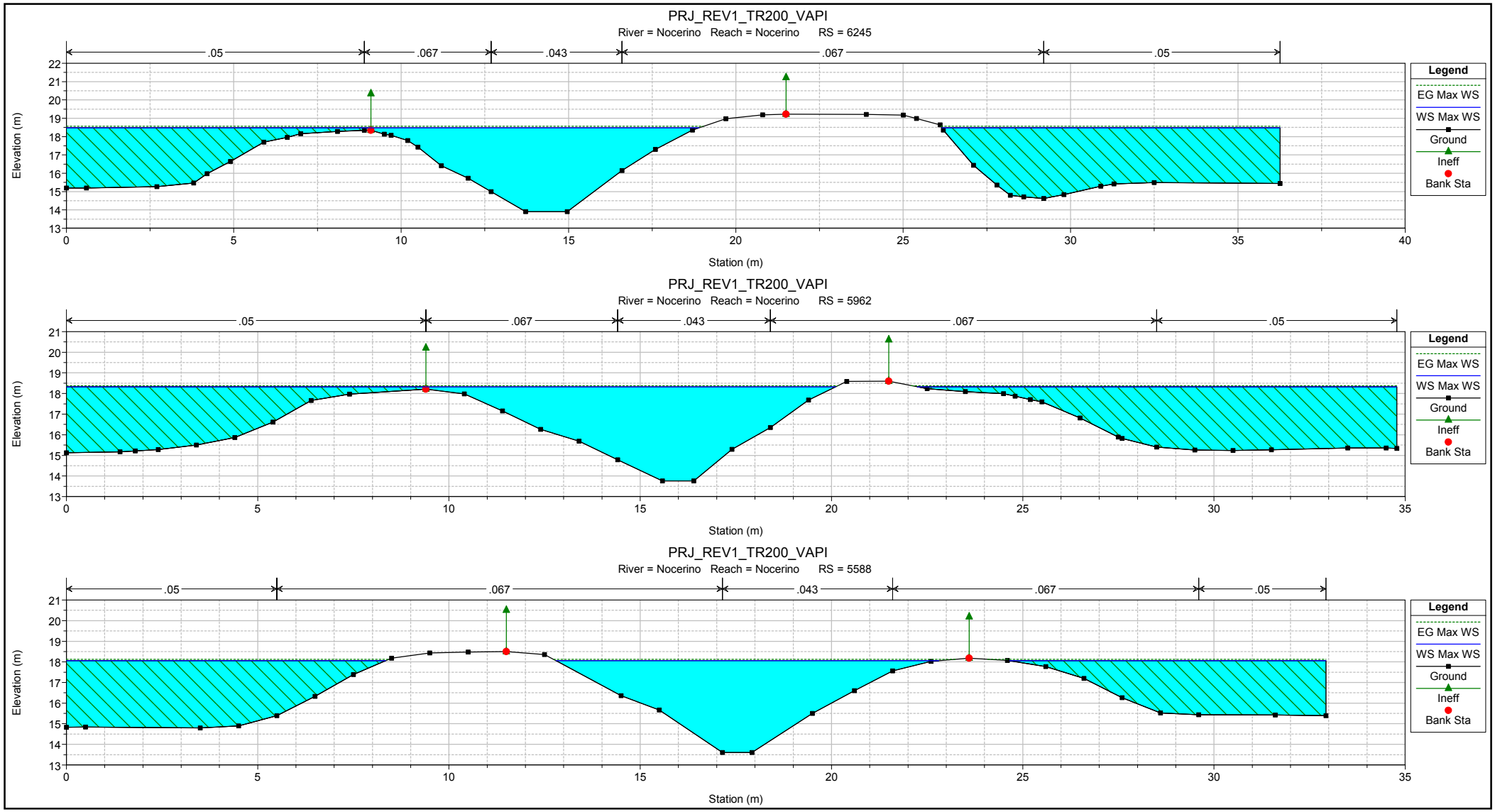
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
			(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Nocerino	7923	Max WS	570.12	15.05	6.74	21.79	0.74	22.83	4.44	3.69
Nocerino	7922		Lat Struct							
Nocerino	7921		Lat Struct							
Nocerino	7420	Max WS	114.69	14.68	5.82	20.50	0.60	21.00	3.13	2.79
Nocerino	6961	Max WS	81.54	14.31	4.97	19.28	0.56	19.61	2.57	2.12
Nocerino	6586	Max WS	47.09	14.12	4.70	18.82	0.27	18.90	1.26	2.17
Nocerino	6457	Max WS	33.82	14.04	4.56	18.60	0.45	18.76	1.78	1.62
Nocerino	6401	Max WS	32.43	14.01	4.59	18.60	0.25	18.66	1.12	2.12
Nocerino	6245	Max WS	30.33	13.90	4.58	18.48	0.26	18.56	1.27	2.43
Nocerino	5962	Max WS	26.23	13.76	4.56	18.32	0.23	18.38	1.08	2.28
Nocerino	5588	Max WS	25.84	13.61	4.44	18.05	0.26	18.13	1.20	2.15
Nocerino	5437	Max WS	25.81	13.58	4.10	17.68	0.45	17.87	1.92	1.90
Nocerino	5378	Max WS	24.71	13.56	4.15	17.71	0.21	17.76	0.97	2.24
Nocerino	5278	Max WS	20.25	13.54	4.15	17.69	0.22	17.74	0.97	2.06
Nocerino	4680	Max WS	20.38	13.20	4.12	17.32	0.25	17.38	1.09	1.85
Nocerino	4336	Max WS	20.17	12.99	4.12	17.11	0.22	17.17	1.04	2.33
Nocerino	3680	Max WS	20.11	12.75	3.97	16.72	0.24	16.77	0.97	1.73
Nocerino	3023	Max WS	19.15	12.55	3.69	16.24	0.26	16.29	1.01	1.56
Nocerino	2368	Max WS	16.39	12.30	3.51	15.81	0.23	15.85	0.90	1.52
Nocerino	1711	Max WS	13.20	12.18	3.27	15.45	0.24	15.49	0.84	1.30
Nocerino	1218	Max WS	12.36	12.08	3.11	15.19	0.21	15.22	0.72	1.20
Nocerino	723	Max WS	6.62	11.88	3.26	15.06	0.09	15.07	0.33	1.41
Nocerino	645	Max WS	5.07	11.78	3.31	15.09	0.03	15.09	0.15	2.03
Nocerino	605	Max WS	3.06	11.76	3.33	15.09	0.02	15.09	0.09	2.09
Nocerino	527	Max WS	2.60	11.72	3.35	15.07	0.04	15.07	0.14	1.22
Nocerino	227	Max WS	18.27	11.55	3.35	14.90	0.25	14.95	0.93	1.47

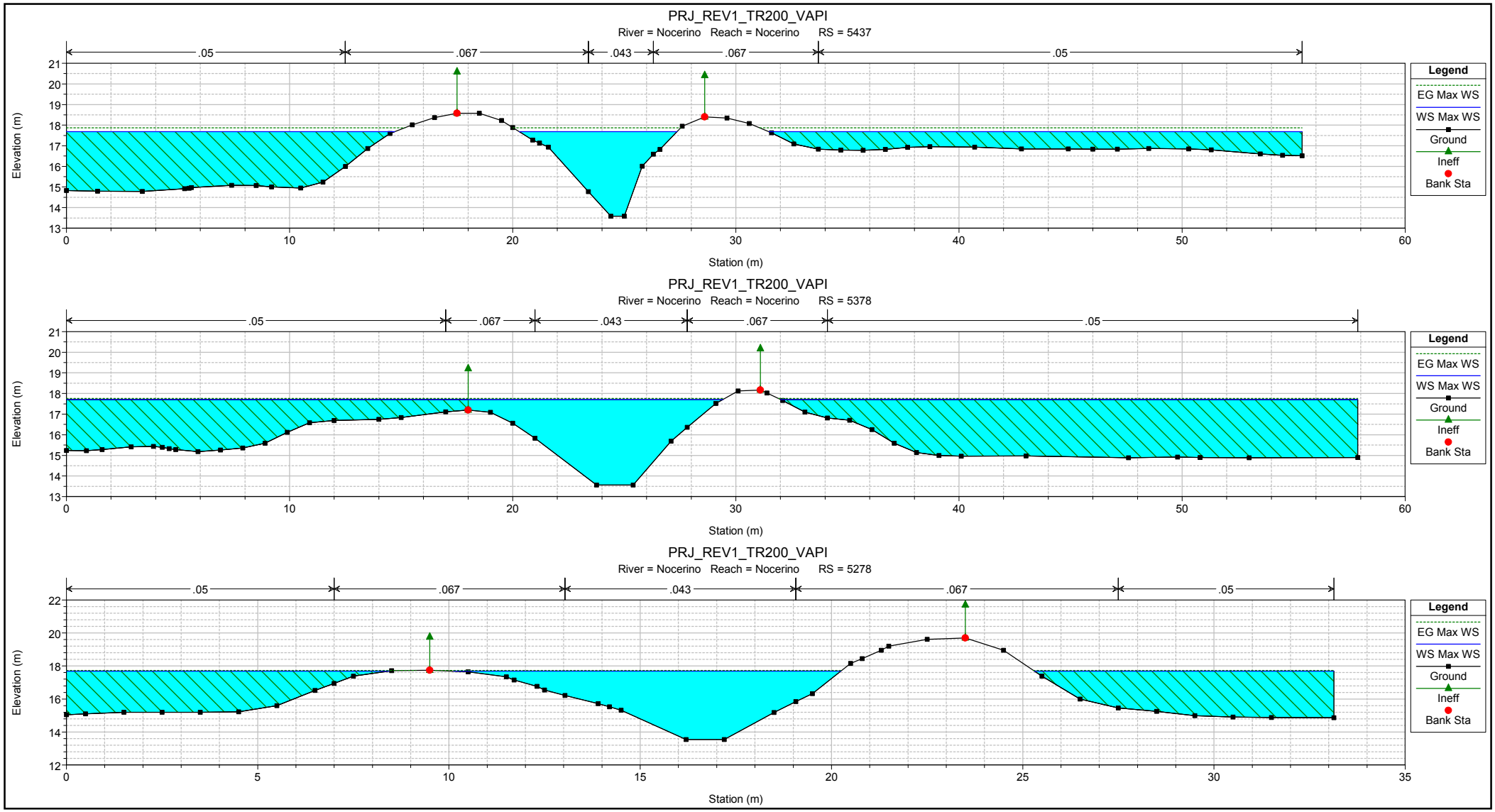

PRJ_REV1_TR200_VAPI
Sarno_valle Sarno_valle
Sarno Sarno
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
20
15
10
5
0
-5
0
2000
4000
6000
8000
10000
12000
14000
308
512
742
921
1164
1418
1667
1869
2088
2285
2514
2705
2928
3144
3499
3685
3863
4061
4284
4463
4661
4906
5107
5279
5478
5662
5861
6049
6325
6575
6751
7042
7220
7388
7710
7939
8123
8311
8574
8789
8979
9318
9518
9751
9965
10158
10415
10589
10836
11326
11539
11856
12196
12610
12874

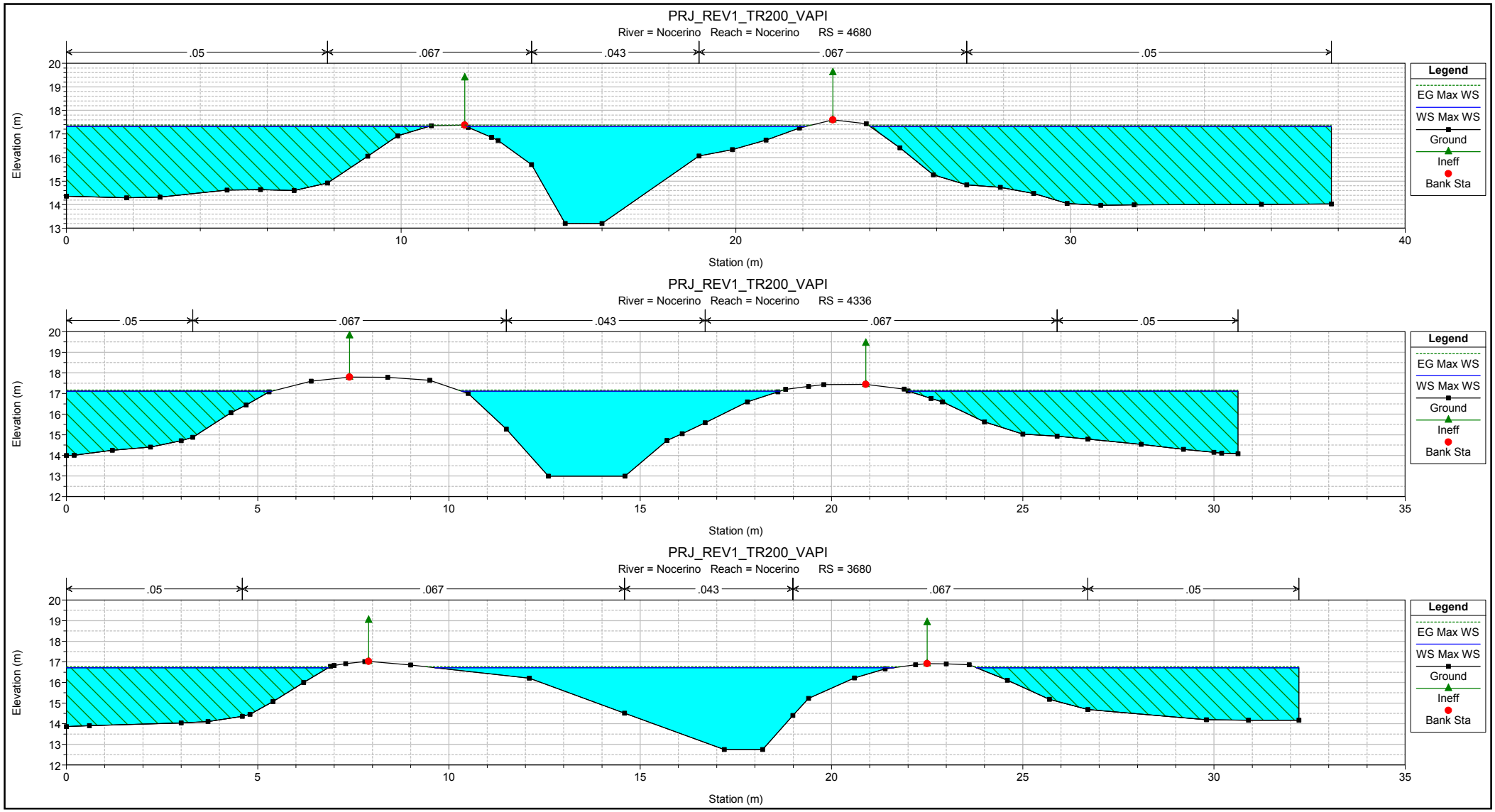

PRJ_REV1_TR200_VAPI
Nocerino Nocerino
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
24
22
20
18
16
14
12
10
0
500
1000
1500
2000
2500
527
645
1218
1711
2368
3023
3680
4336
4680
5278
5378
5588
5962
6245
6401
6586
6961
7420
7923

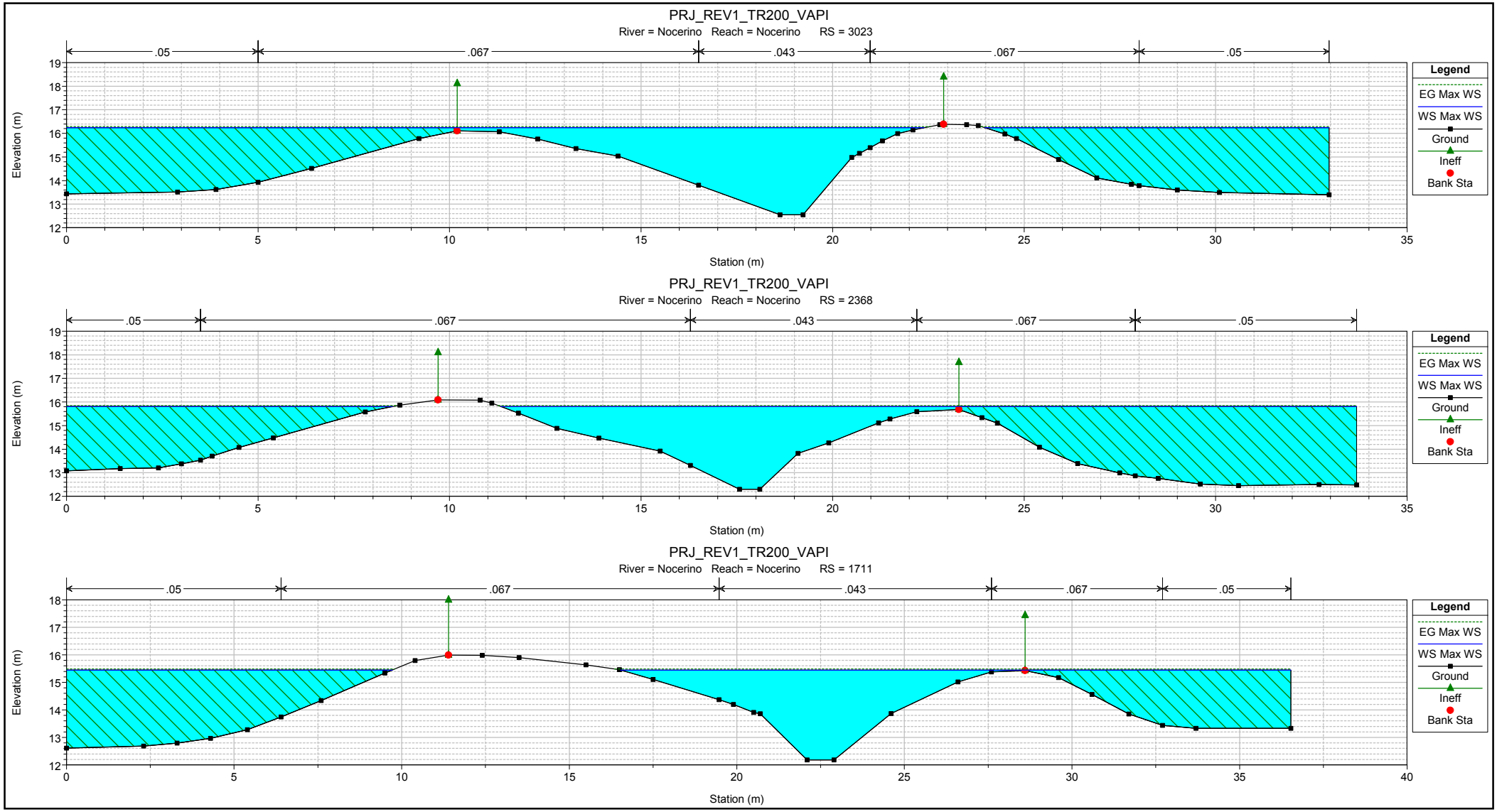

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 7923
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 7420
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6961
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

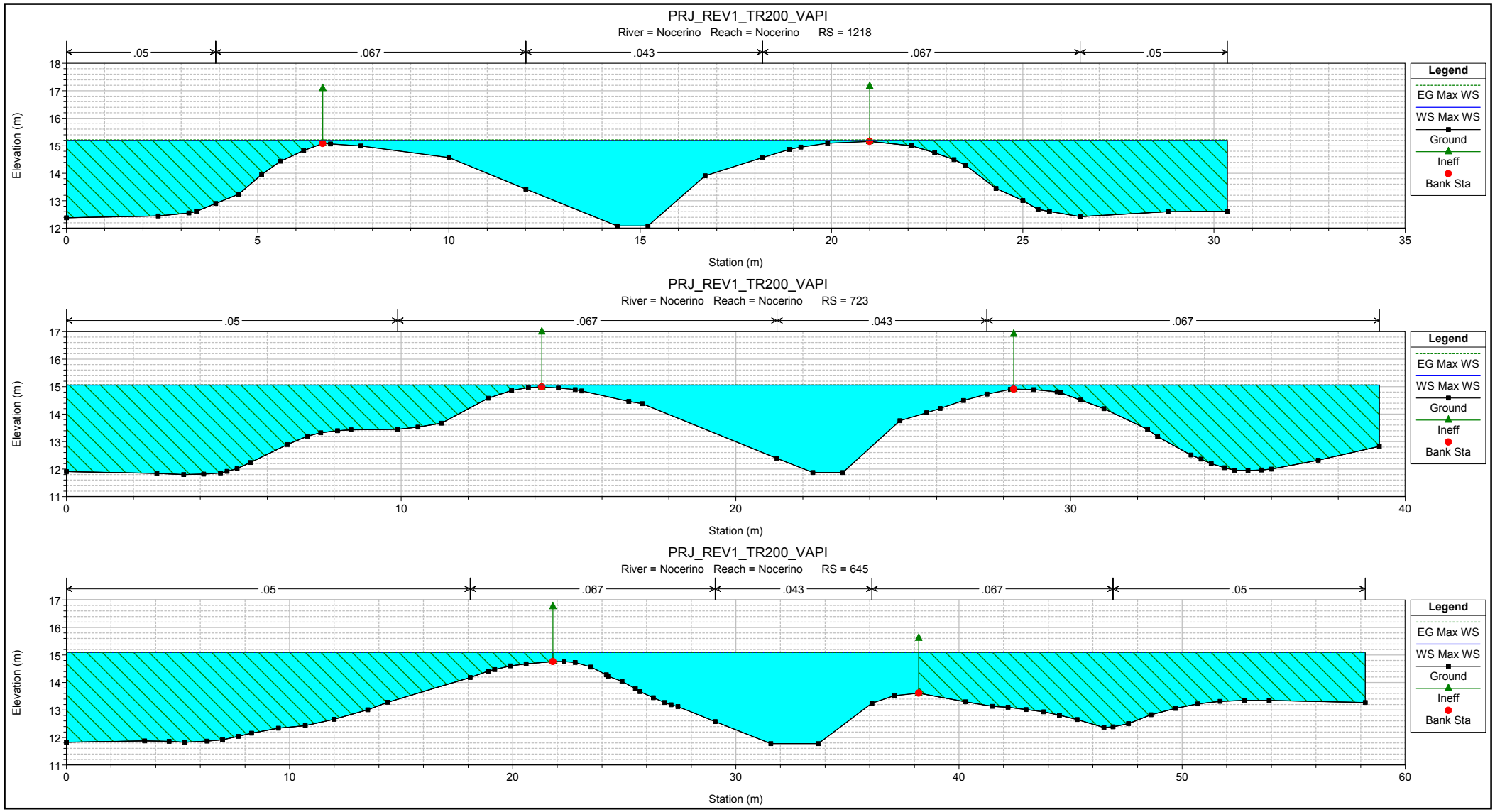

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6586
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6457
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6401
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

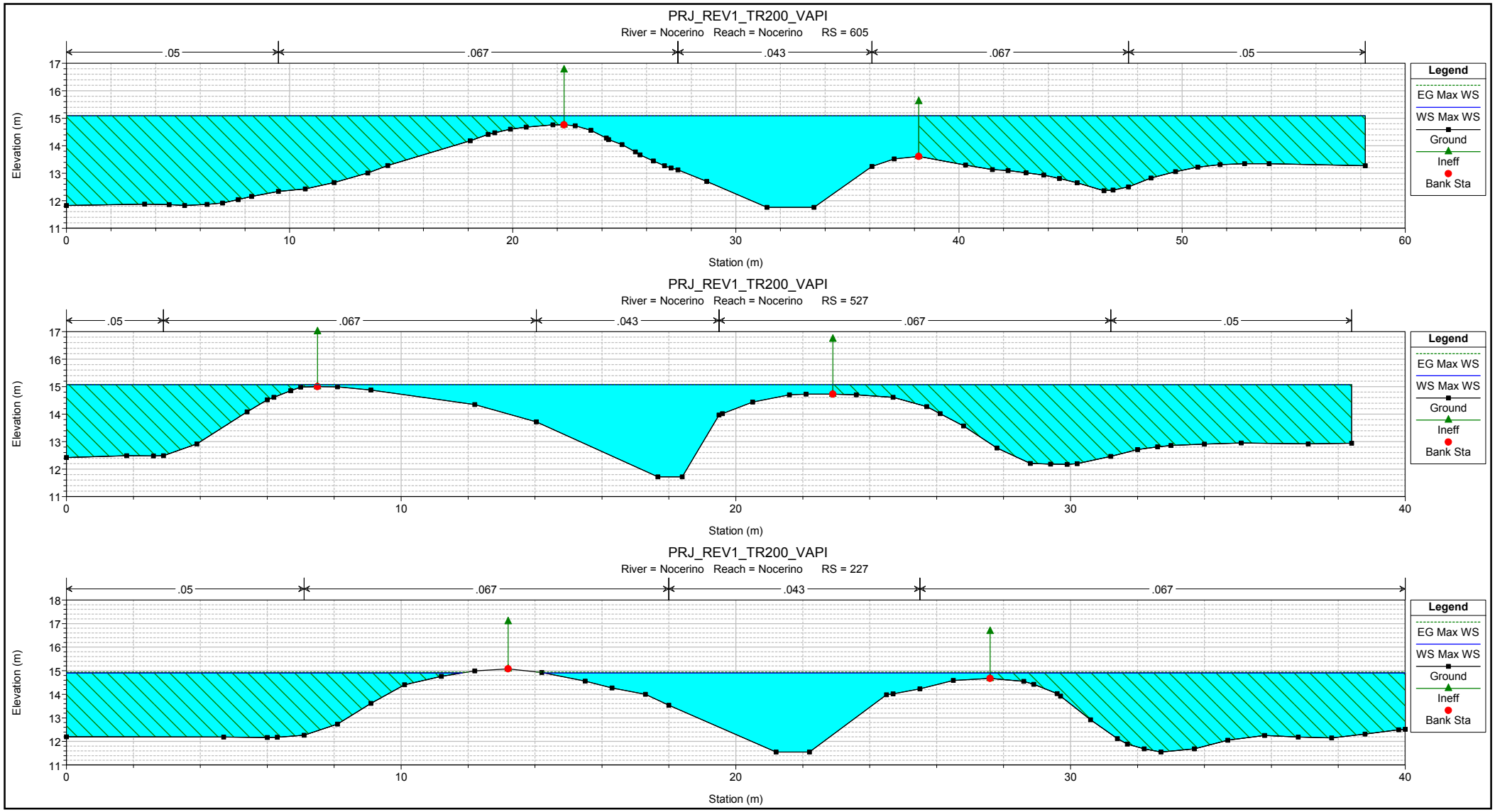

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6245
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5962
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5588
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

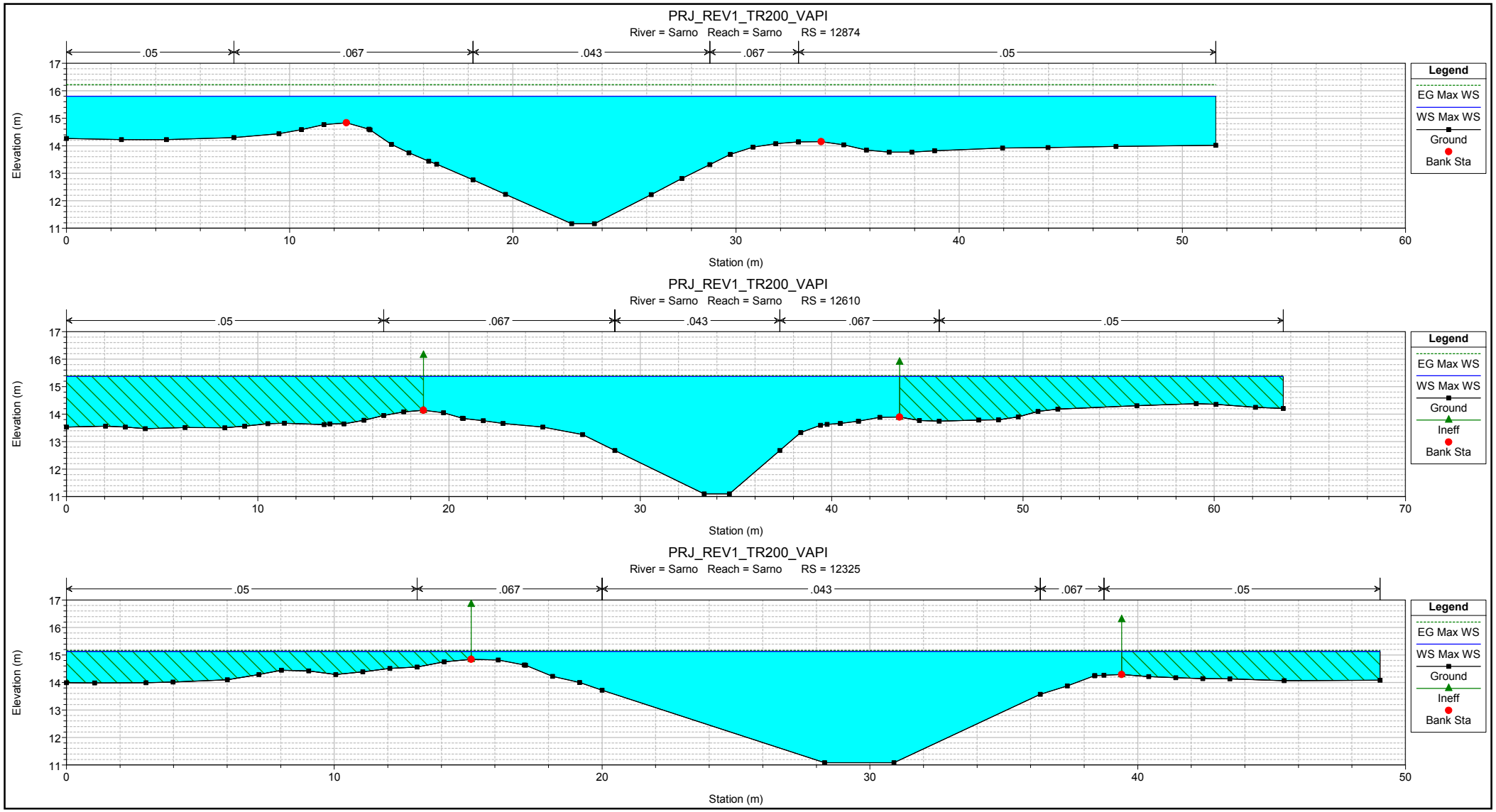

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5378
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5278
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

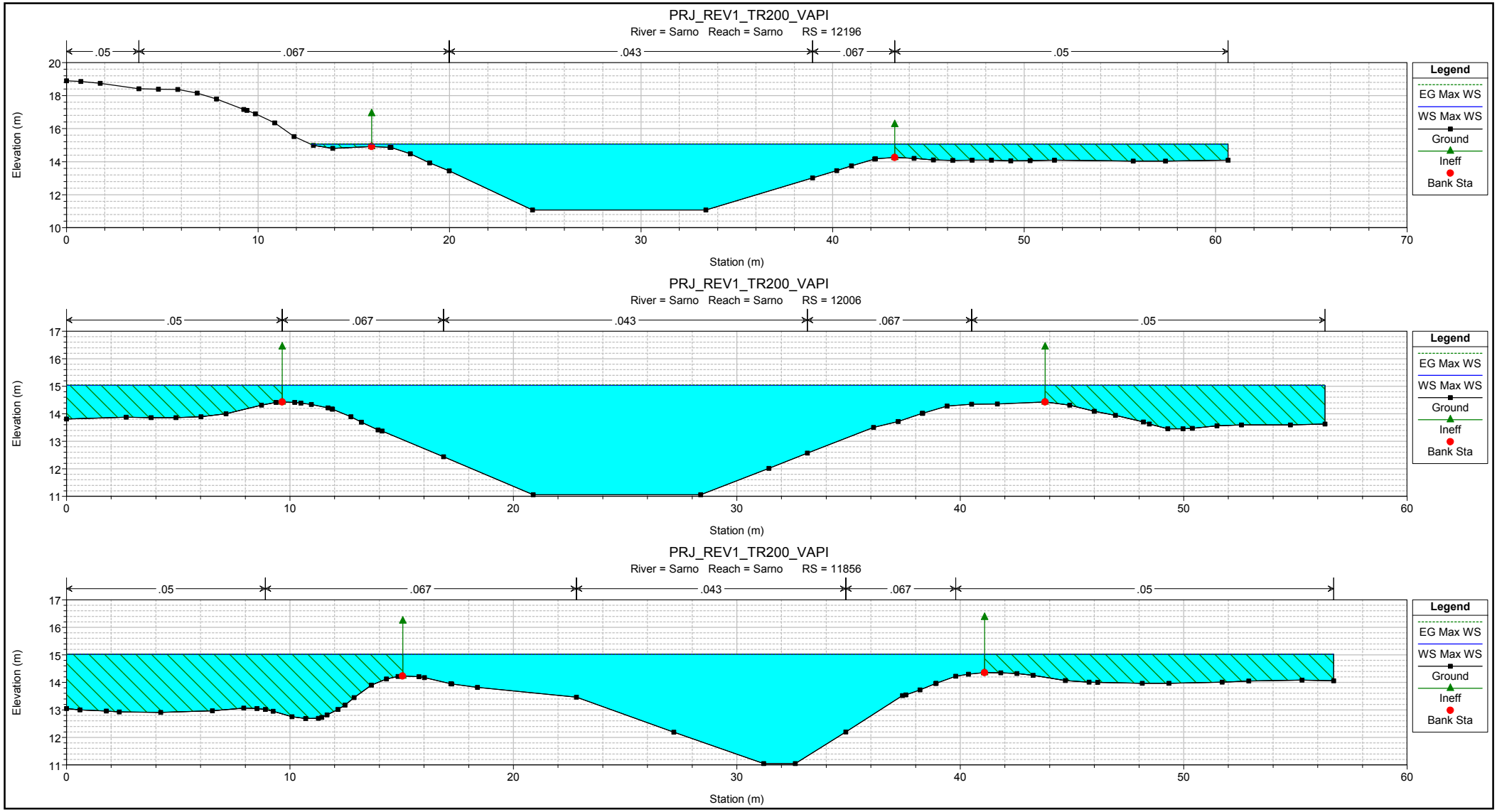

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 4680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 4336
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 3680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

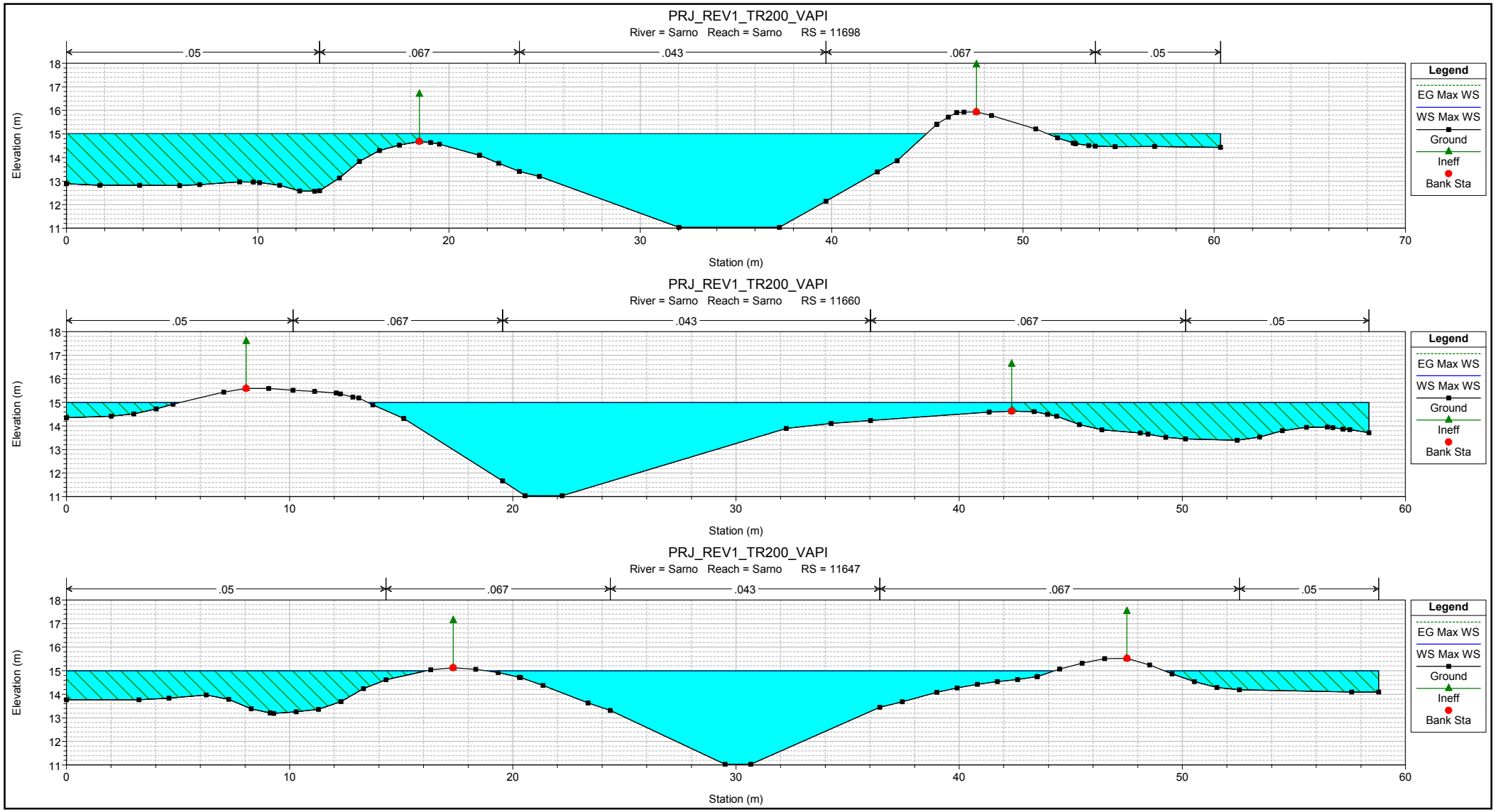

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 3023
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 2368
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 1711
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

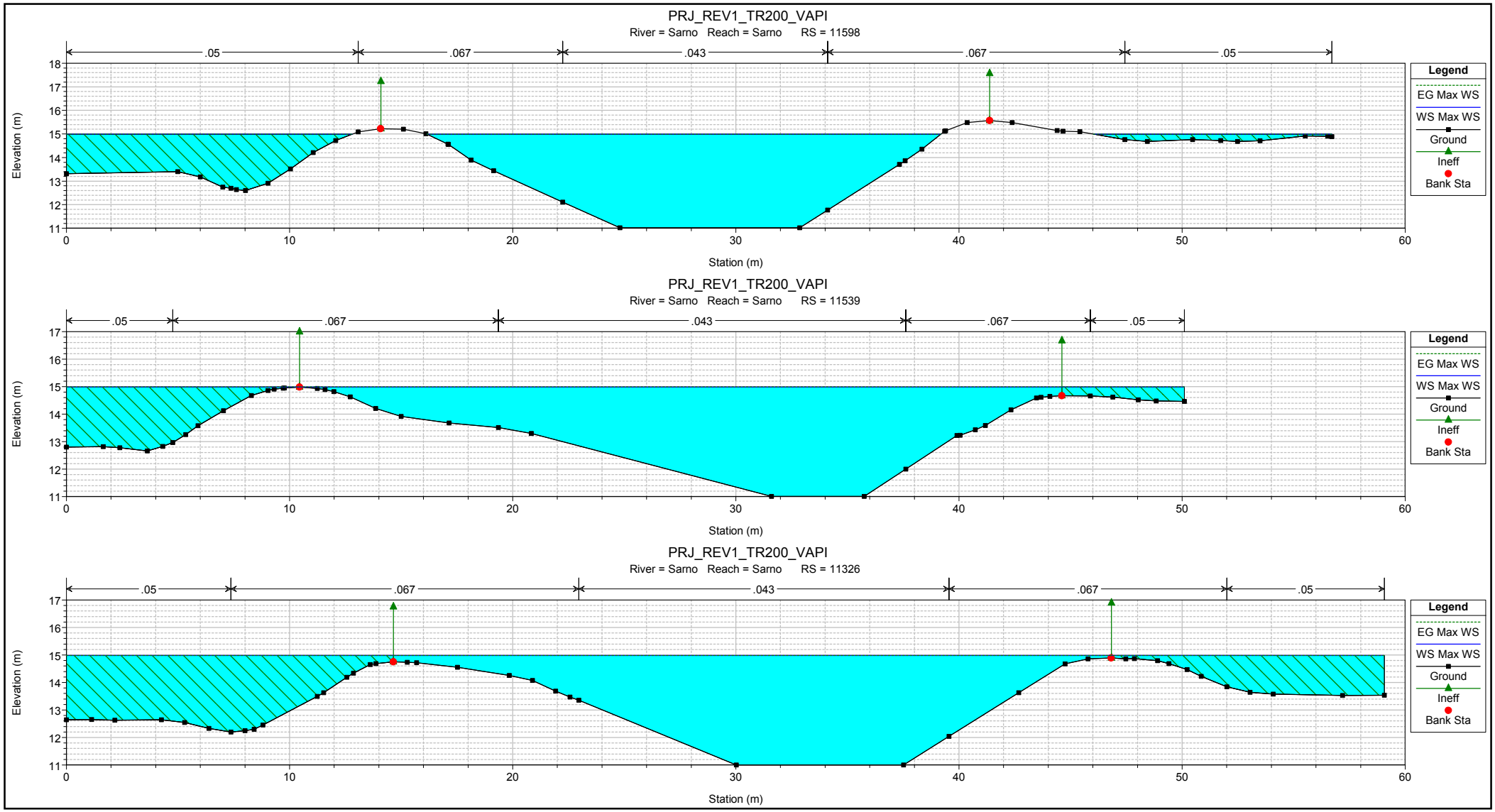

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 1218
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 723
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 645
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

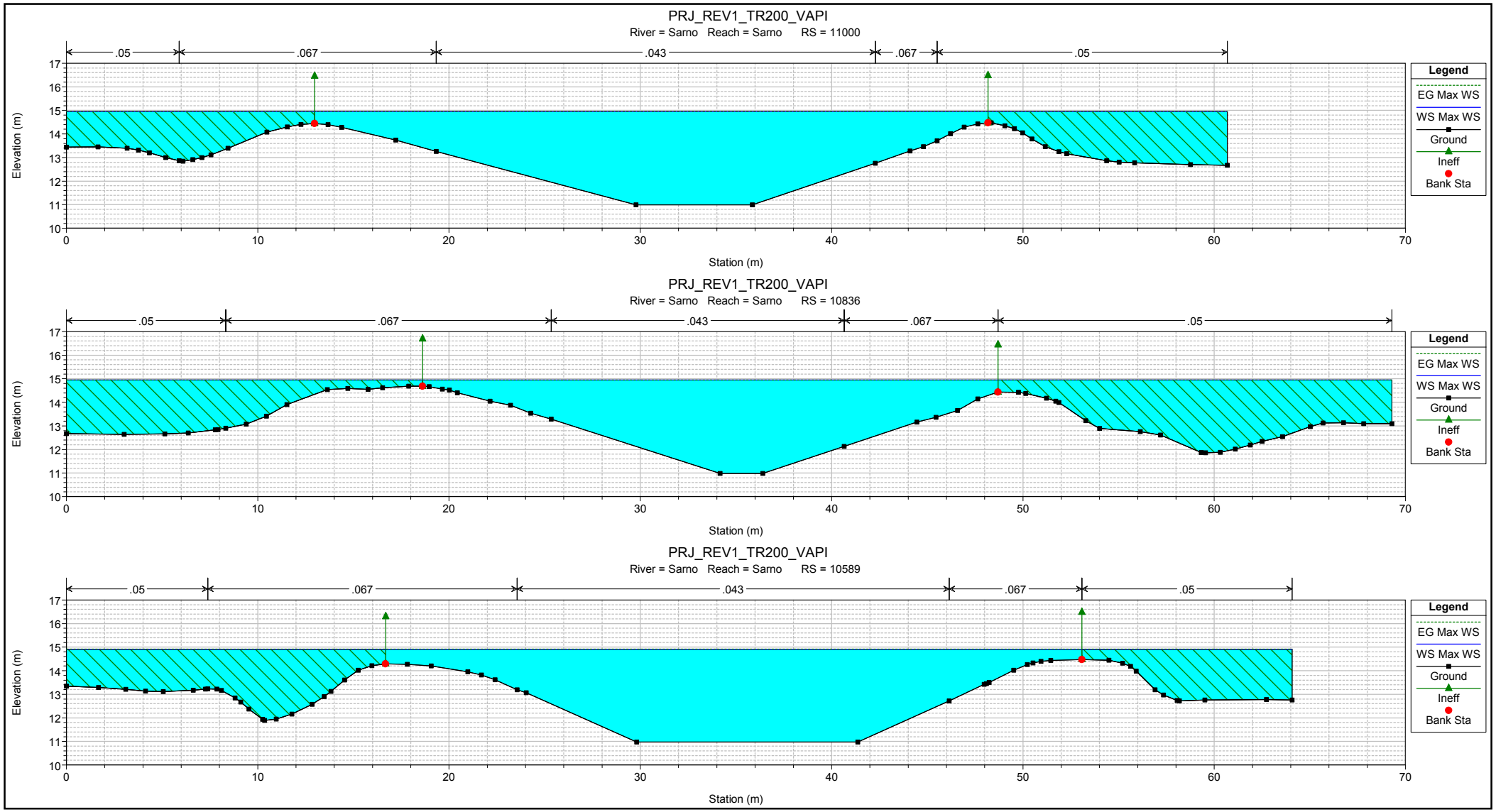

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 605
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 527
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 227
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

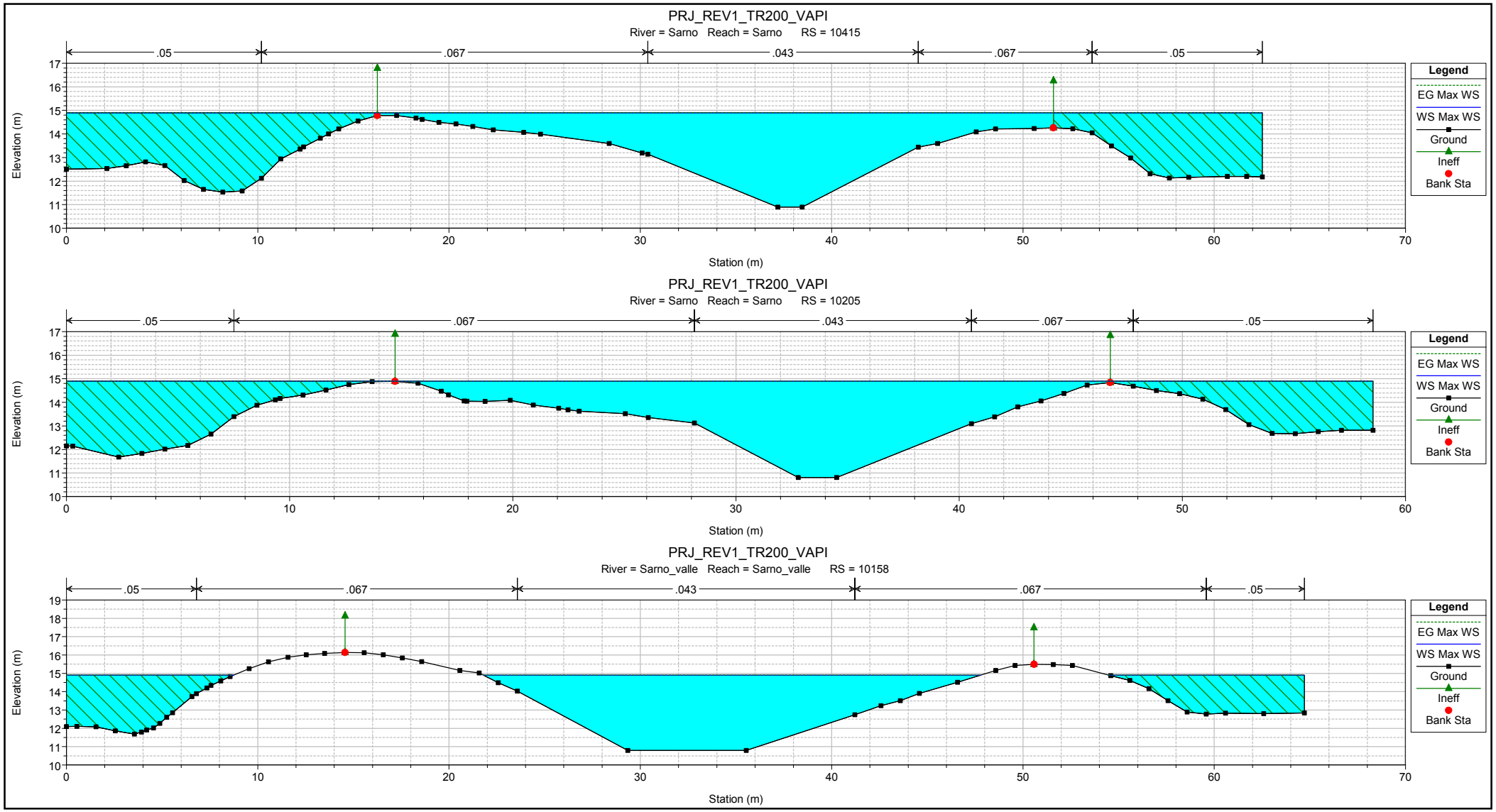

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12874
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12610
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12325
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

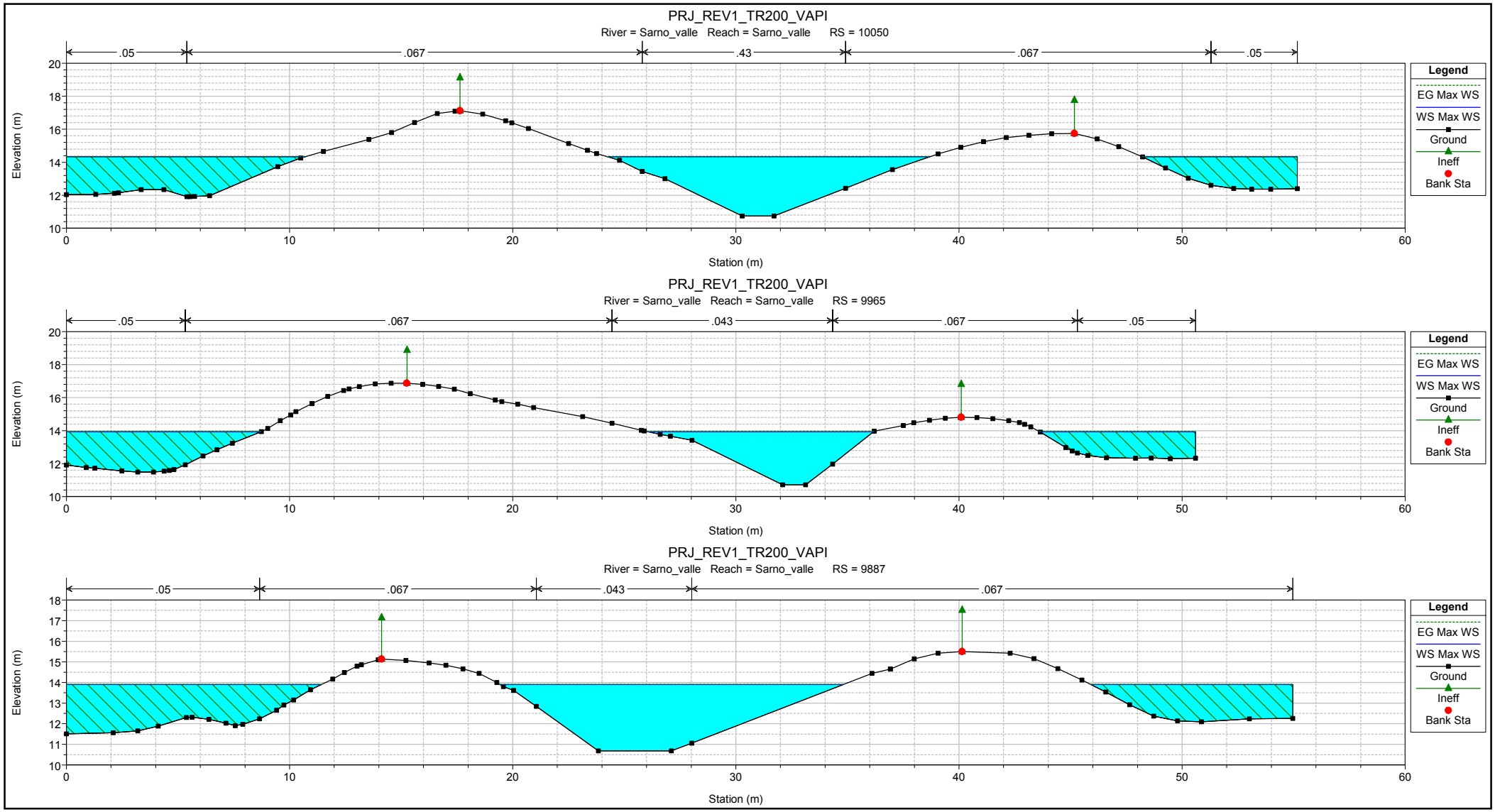

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12196
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12006
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11856
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

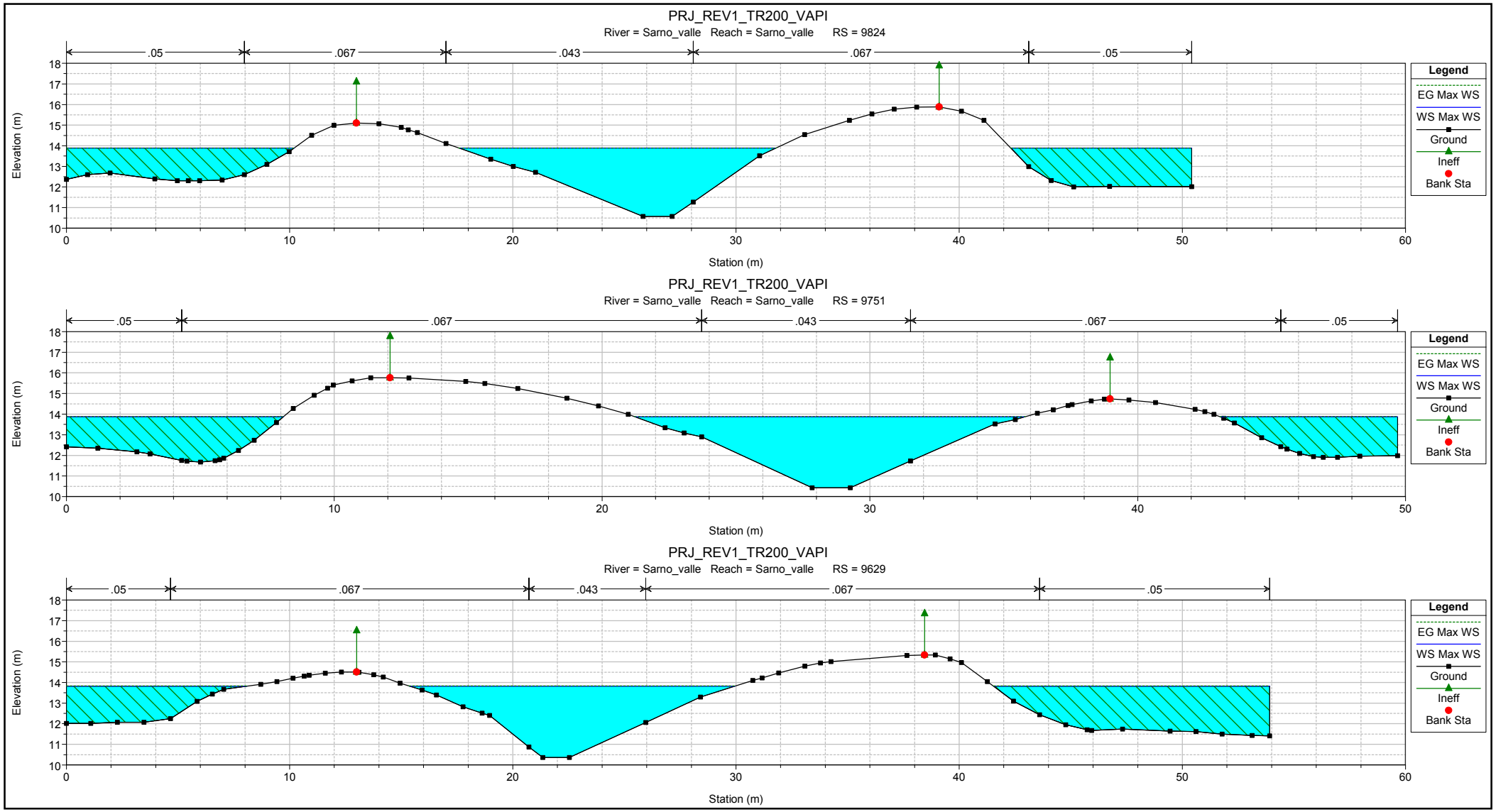

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11698
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11660
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11647
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

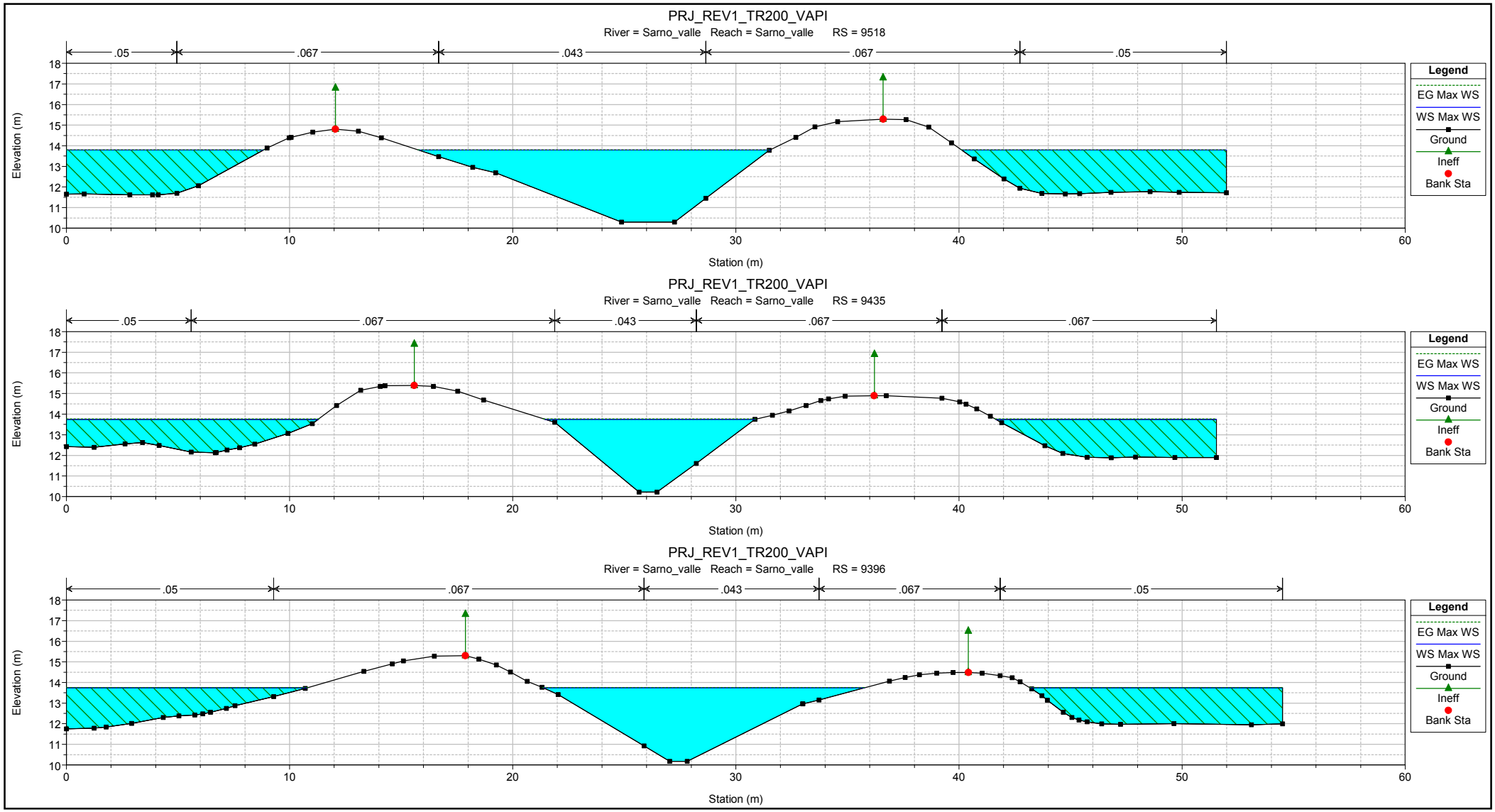

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11598
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11539
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11326
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

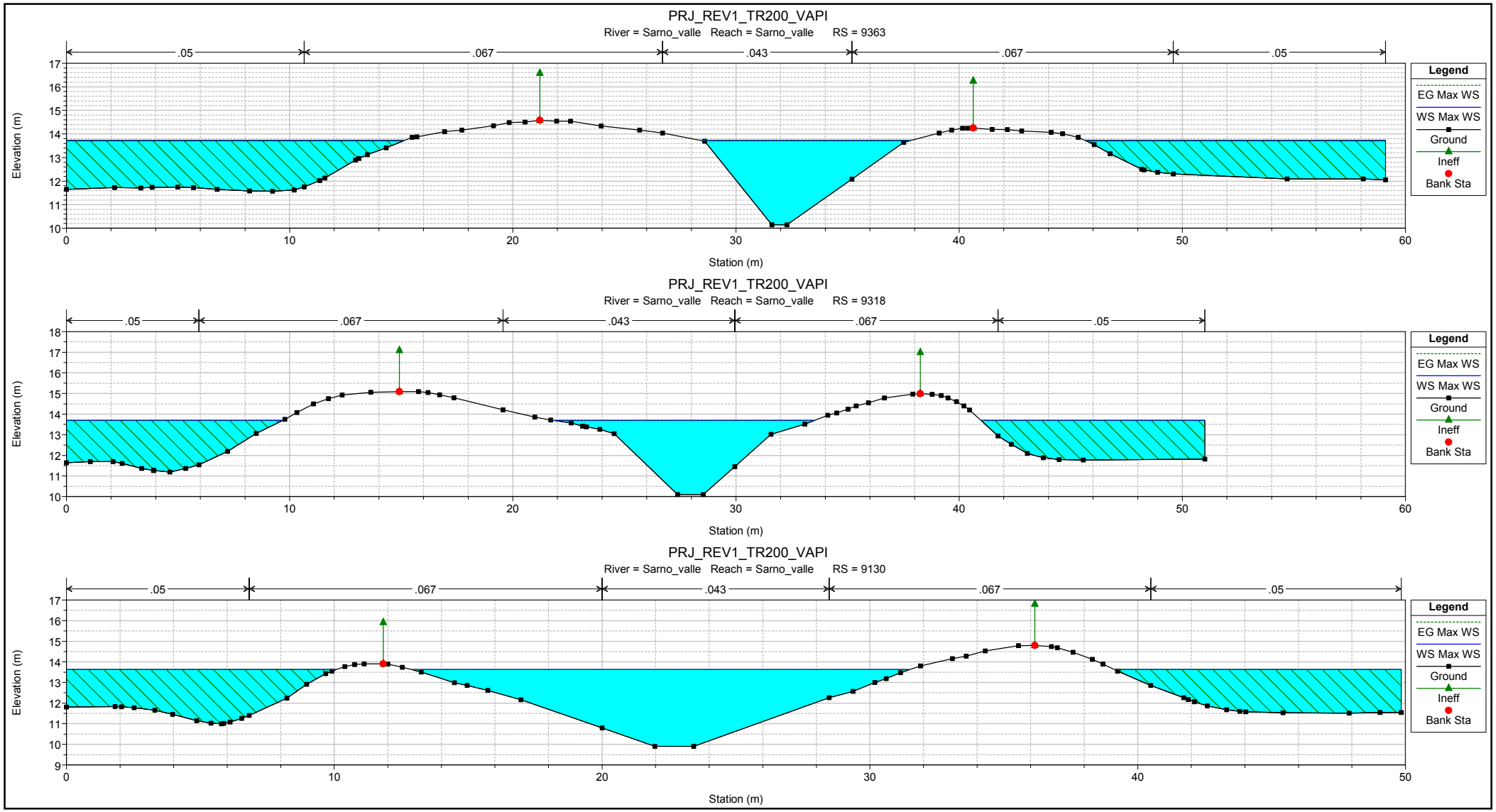

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11000
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 10836
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 10589
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

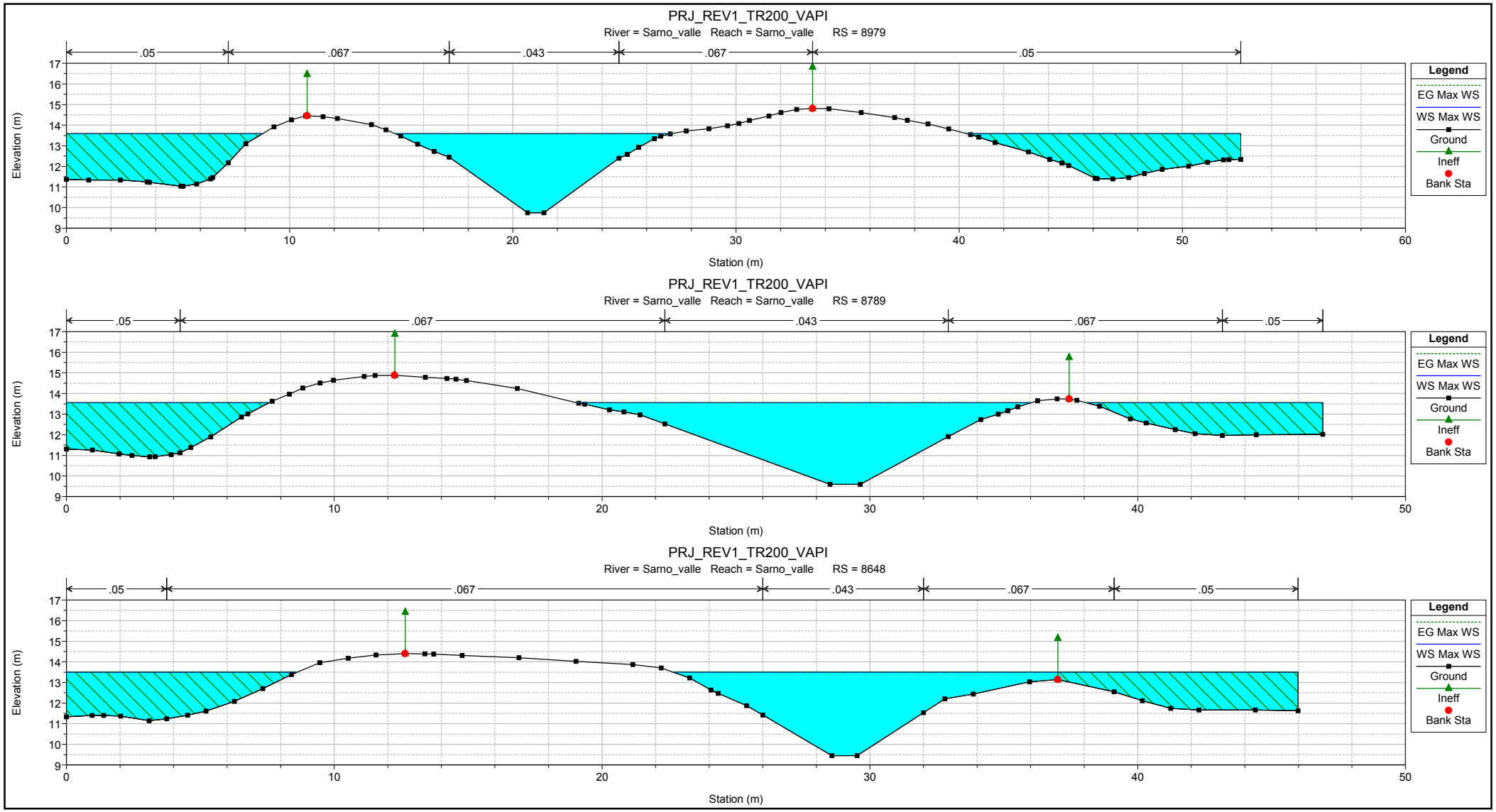

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 10415
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 10205
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10158
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

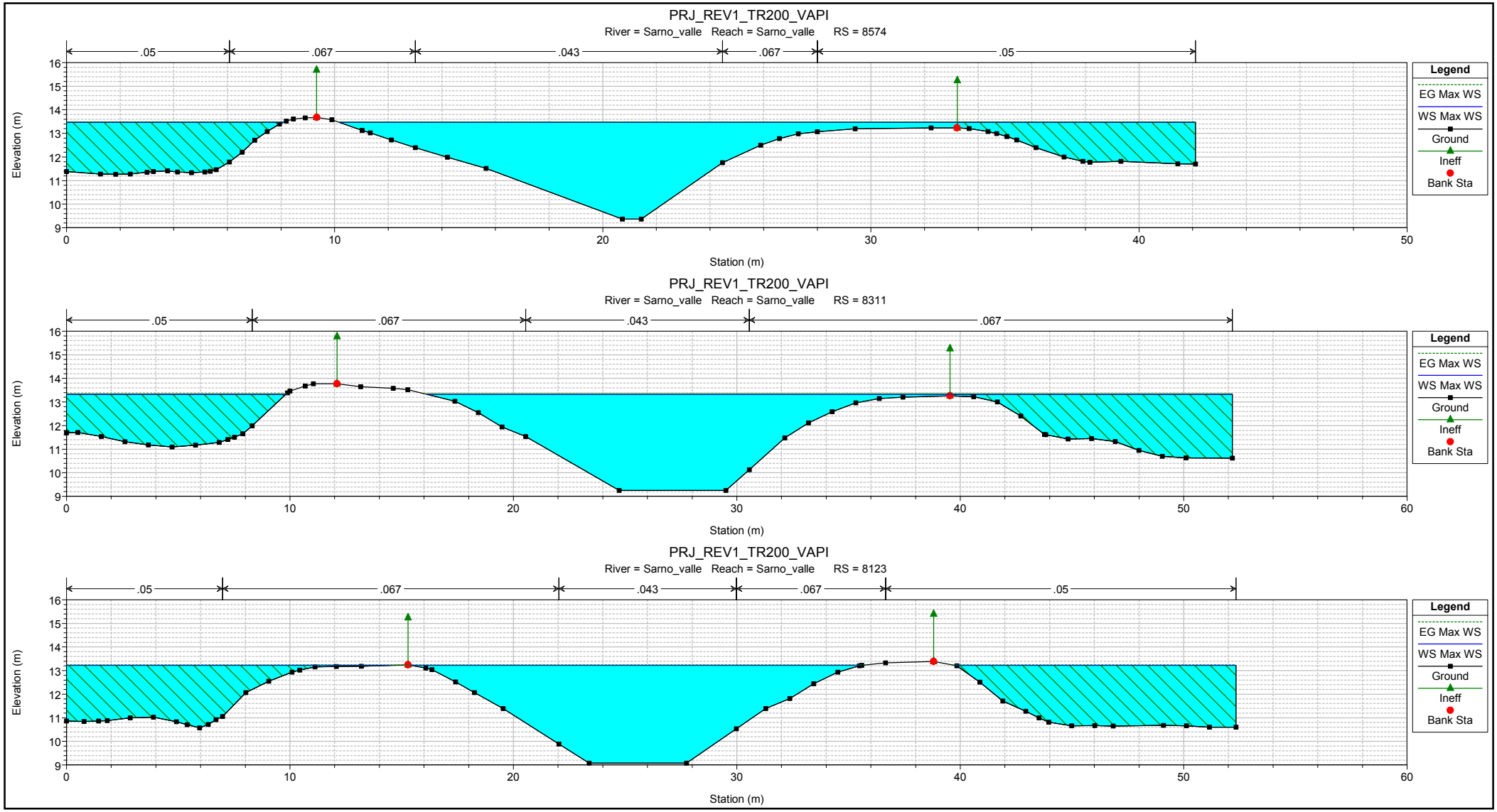

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10050
.05
.067
.43
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9965
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9887
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

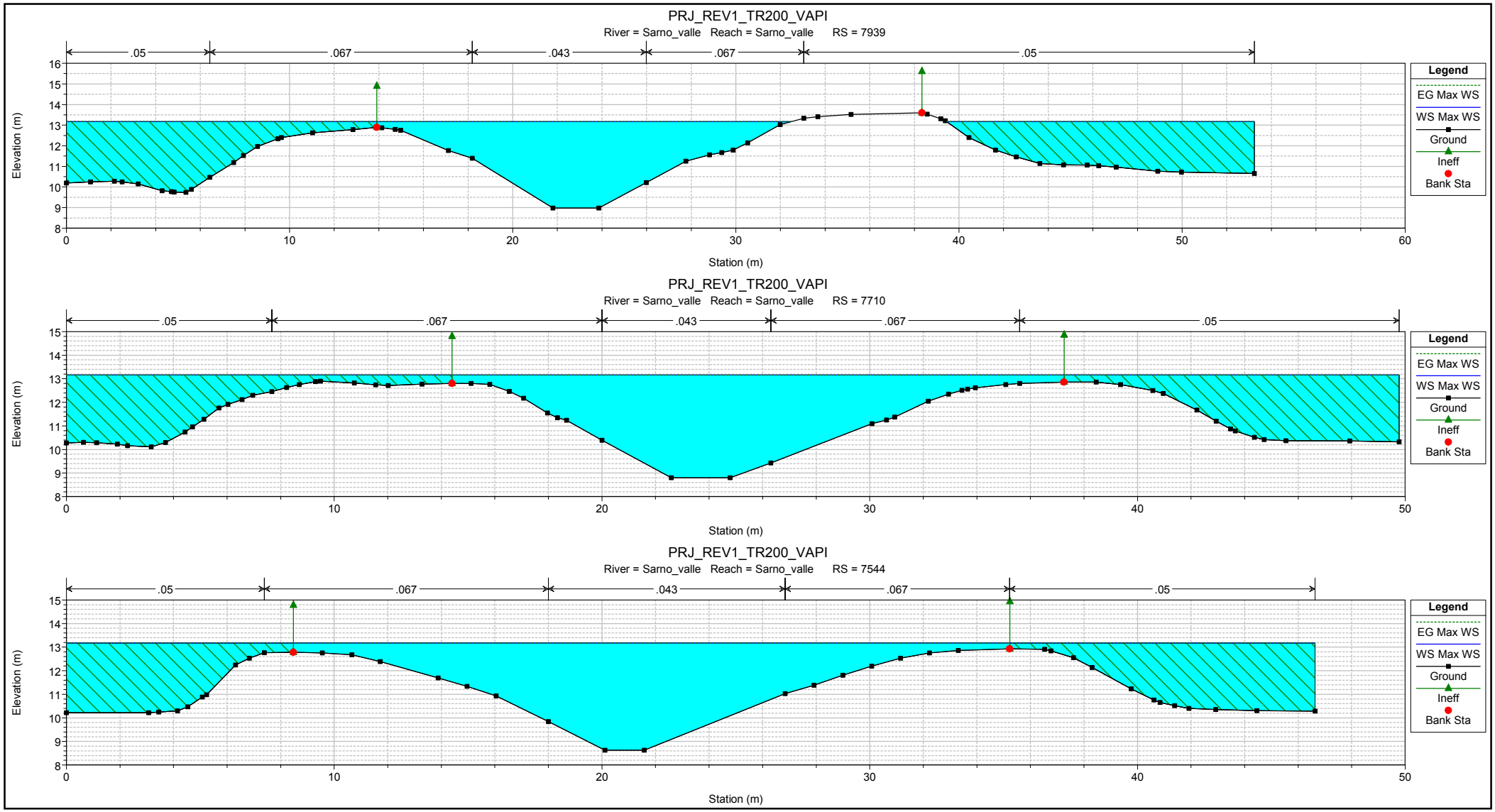

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9824
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9629
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

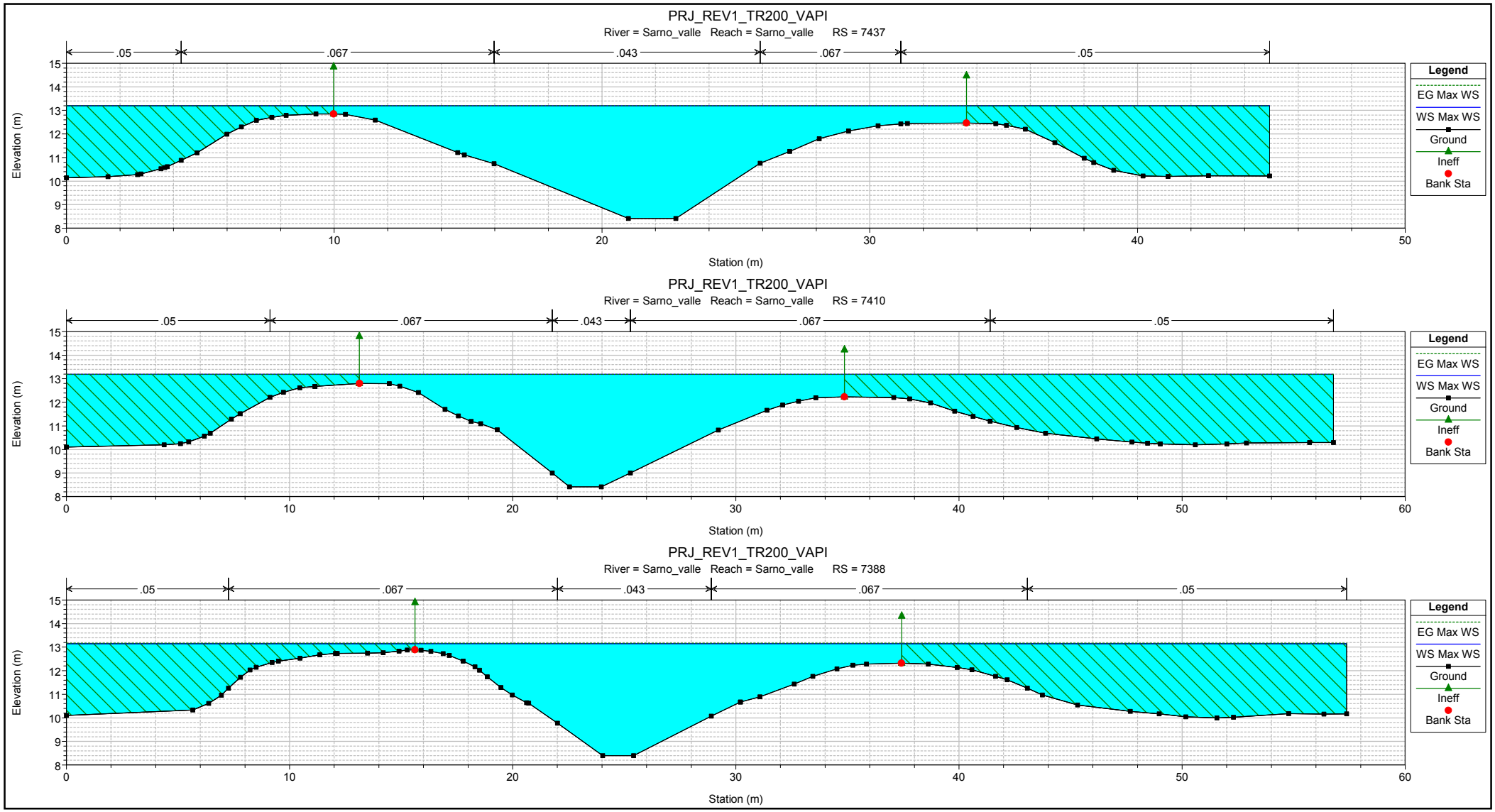

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9518
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9435
.05
.067
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9396
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

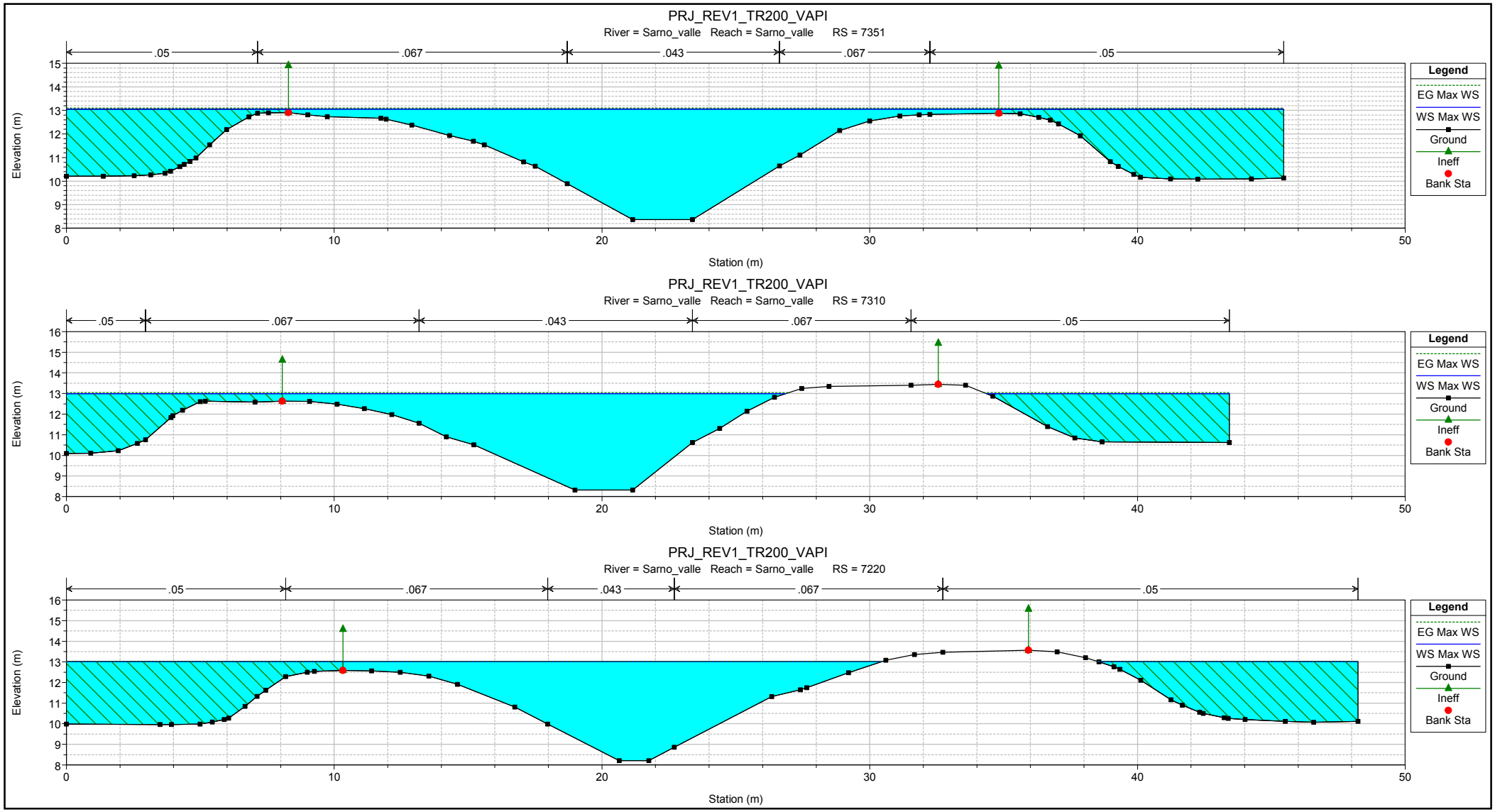

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9363
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9318
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9130
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

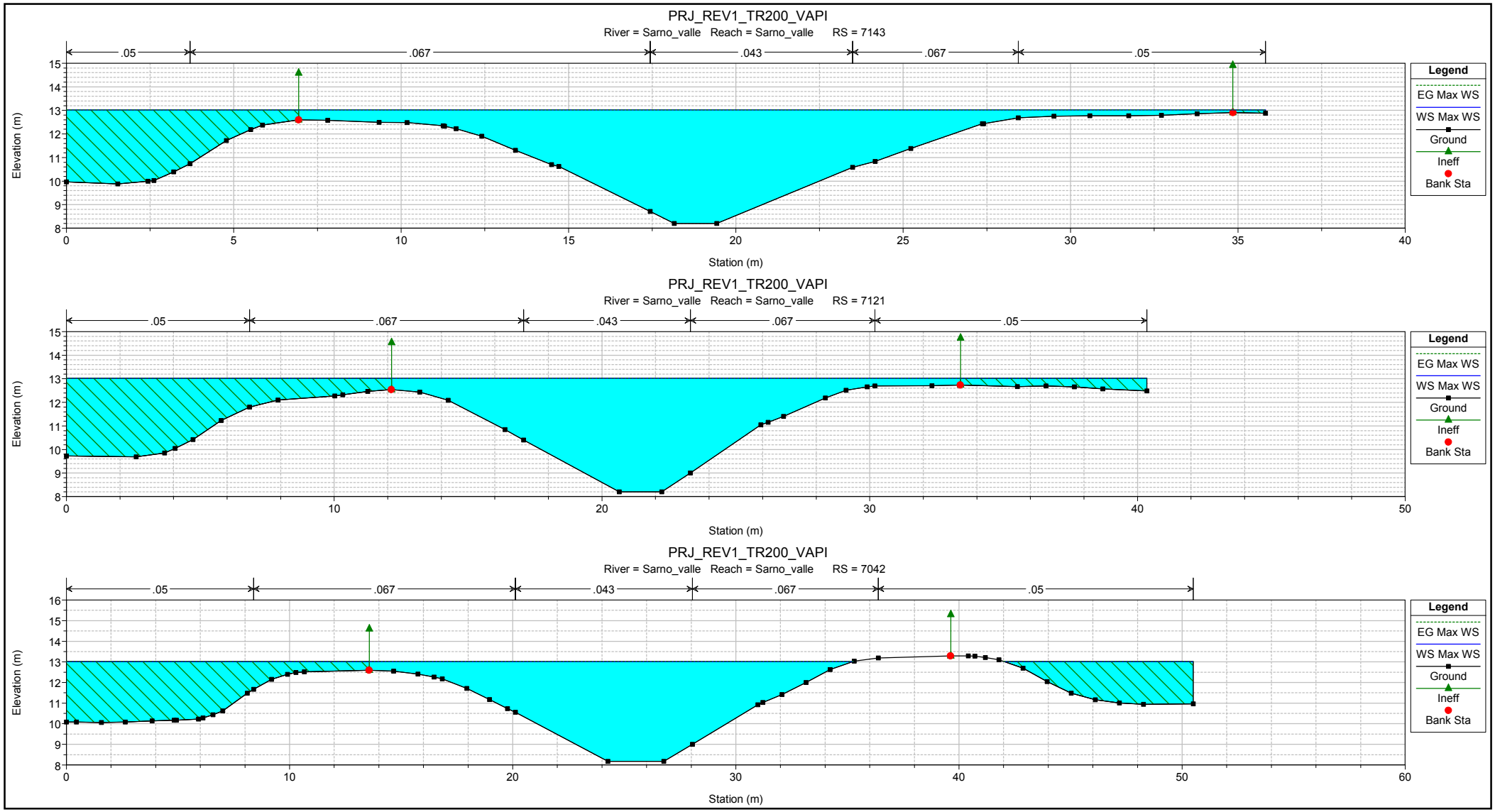

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8979
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8789
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8648
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

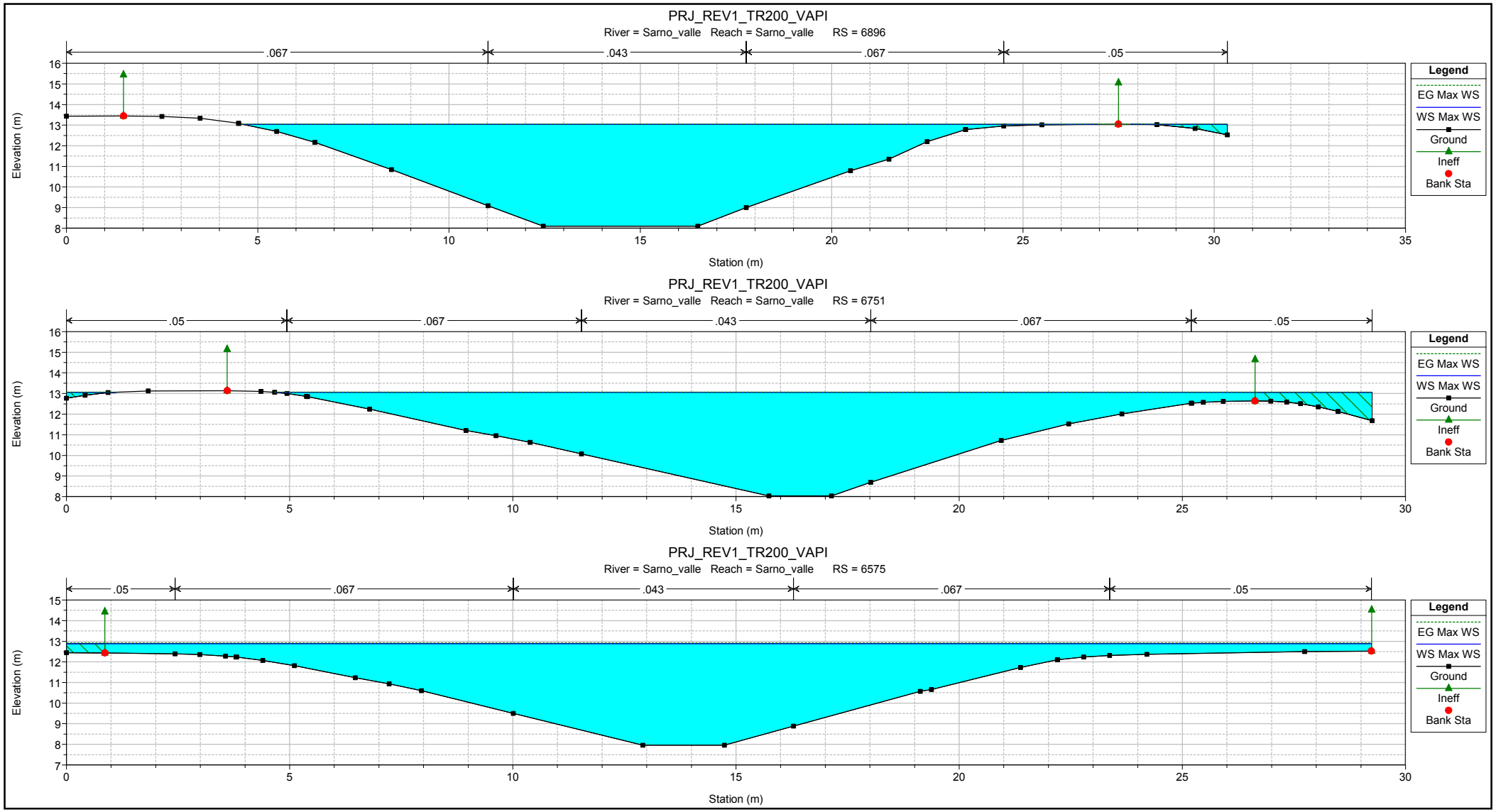

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8574
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8311
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8123
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

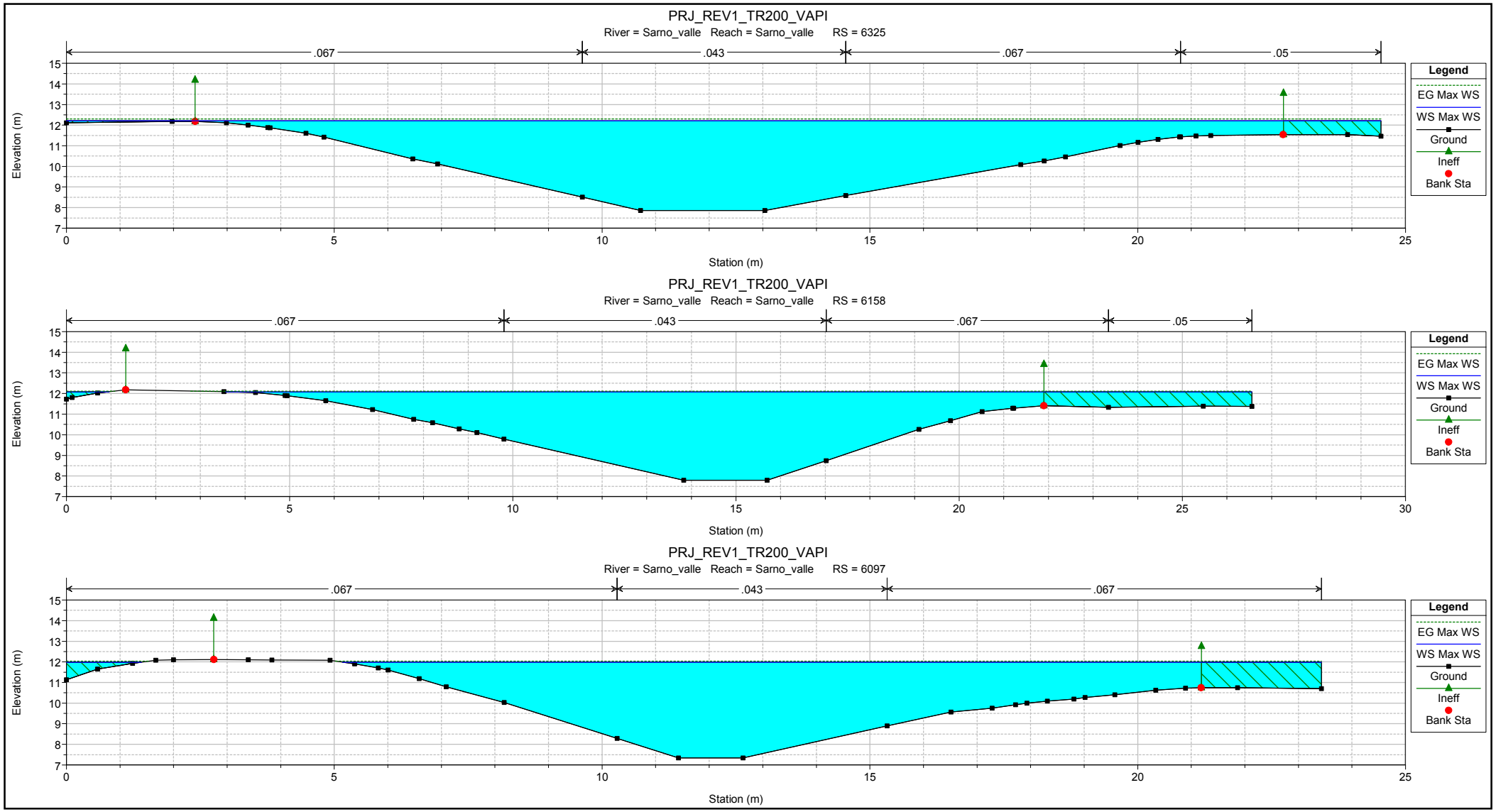

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7939
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7710
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7544
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

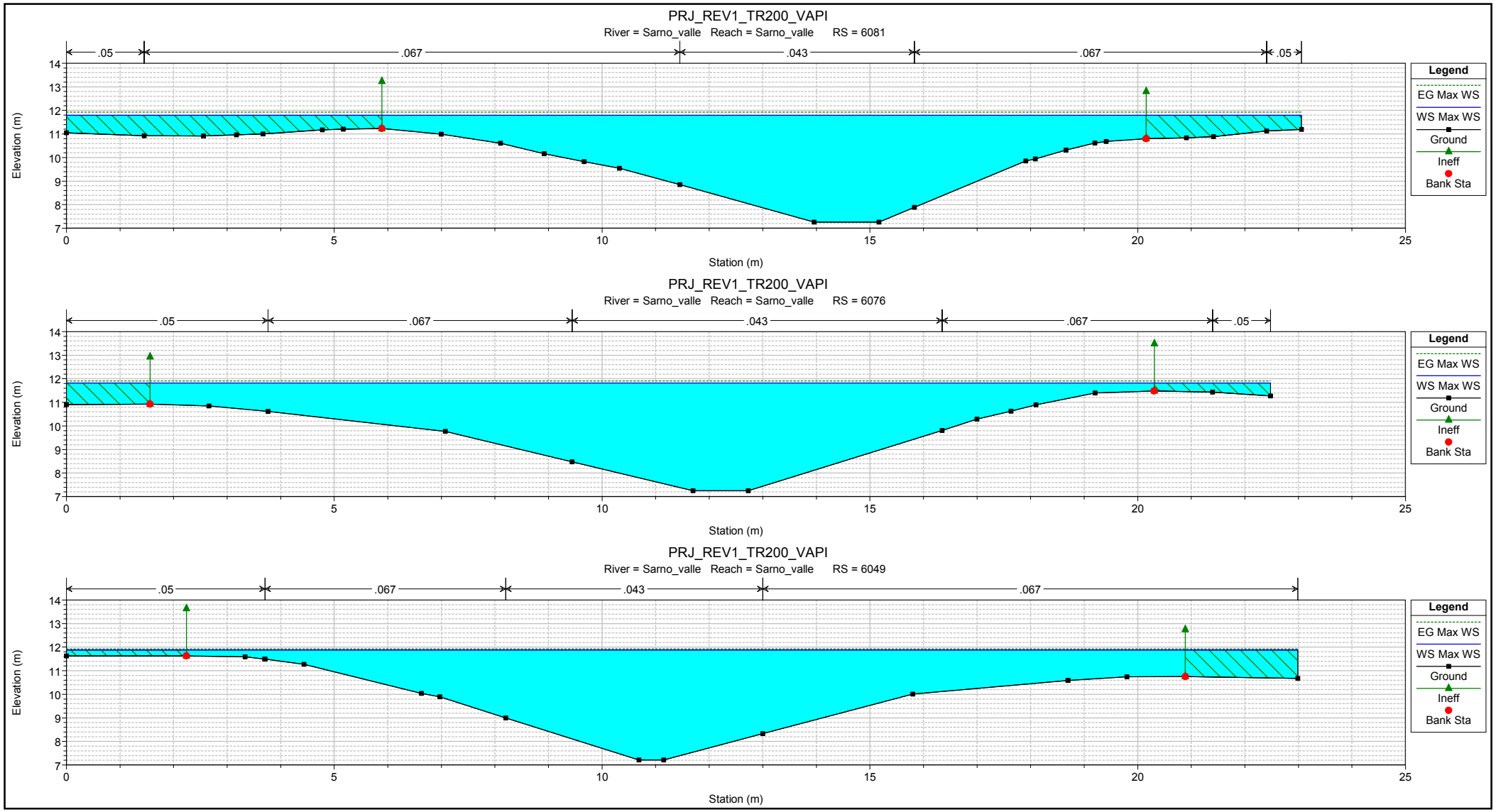

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7410
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7388
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

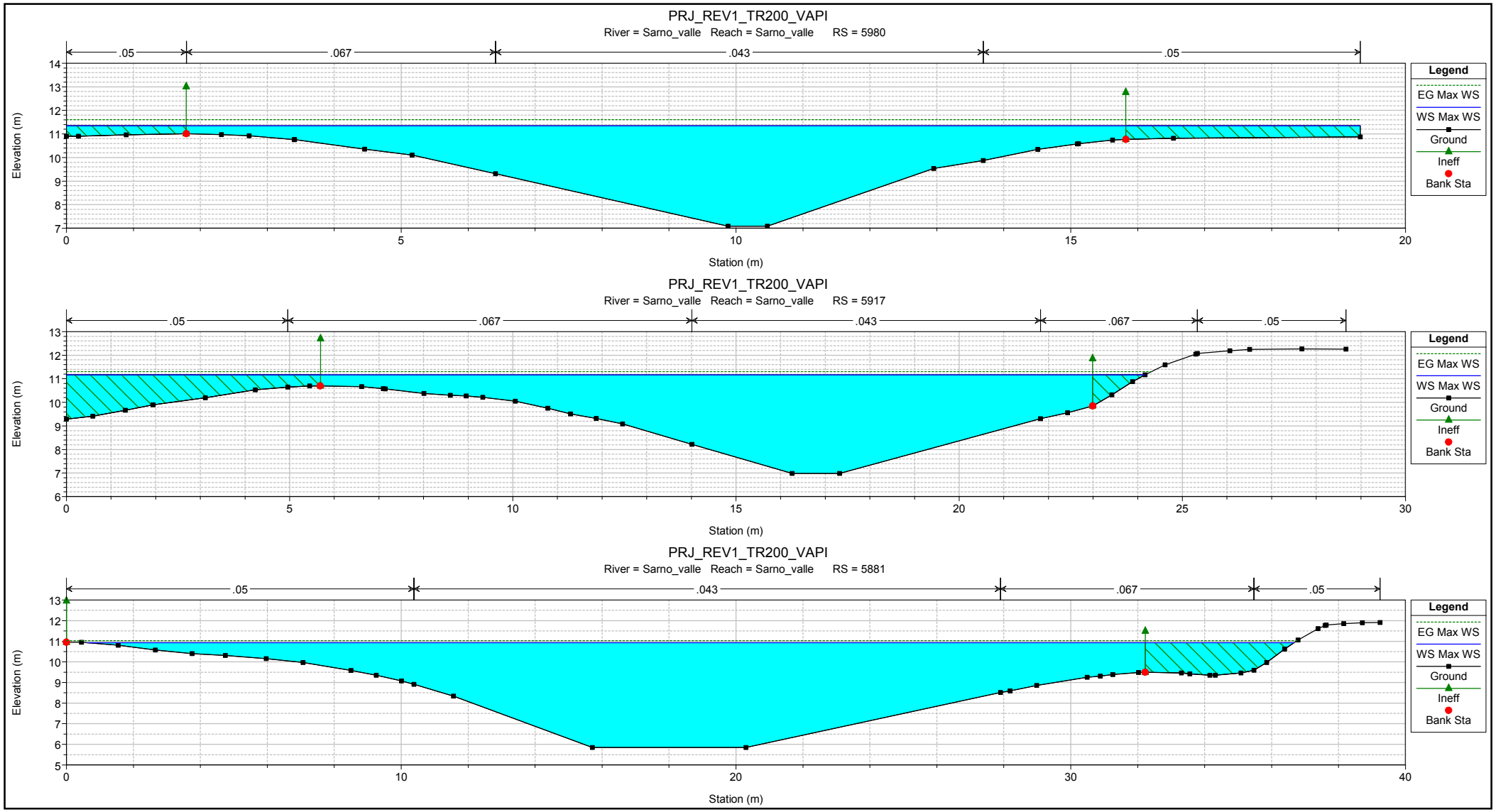

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7310
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

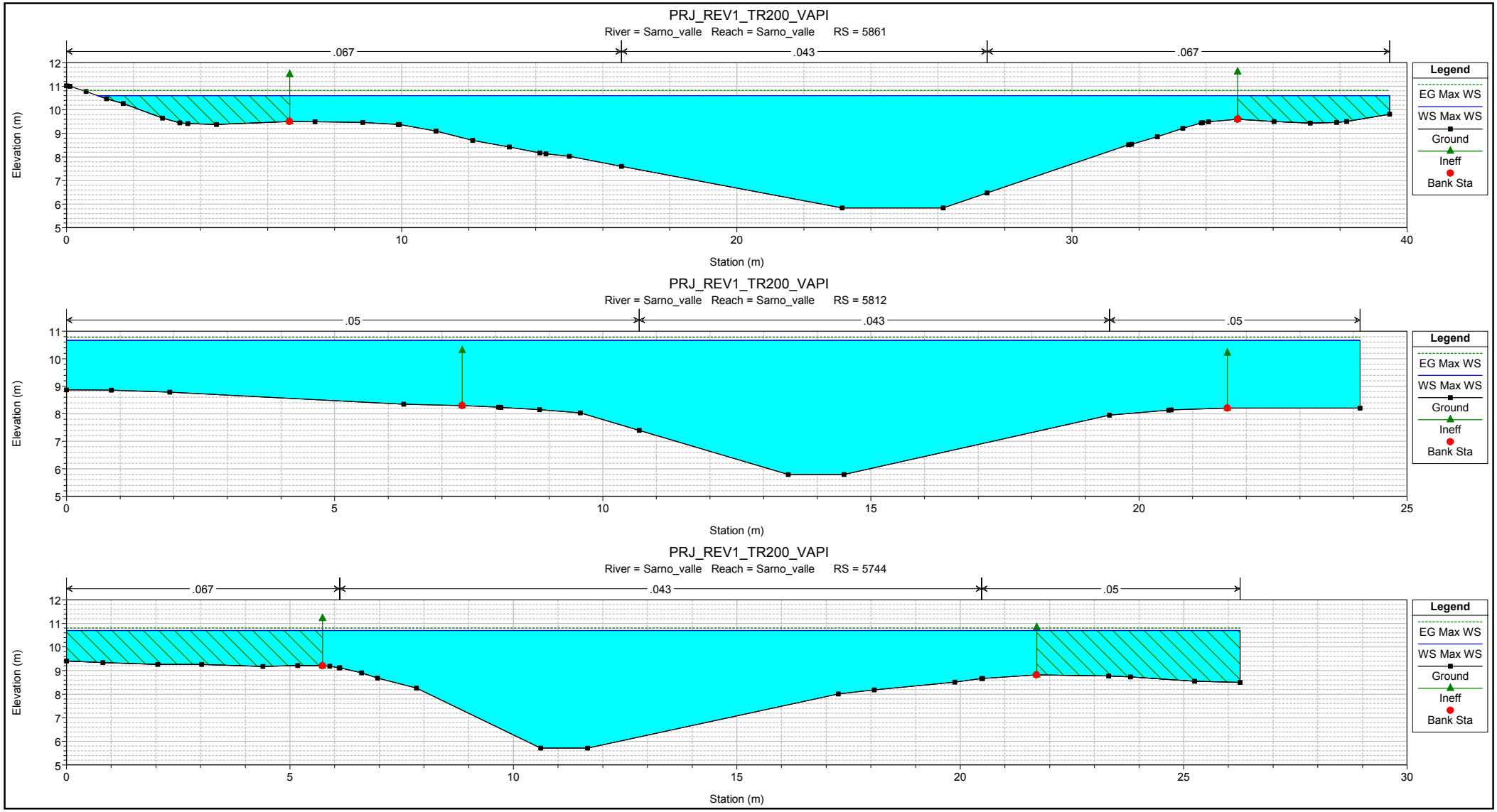

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7143
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7121
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7042
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

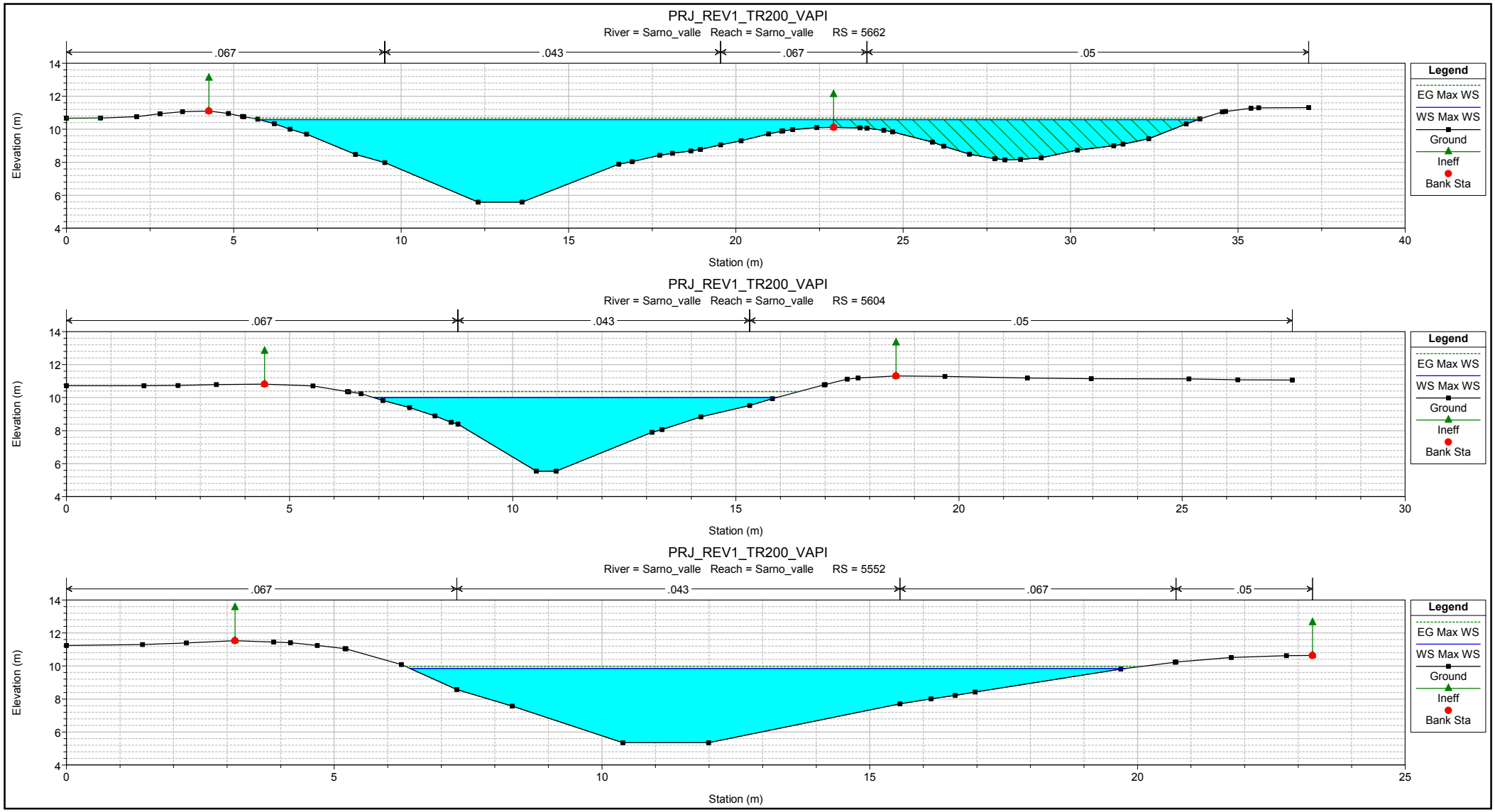

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6896
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6575
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

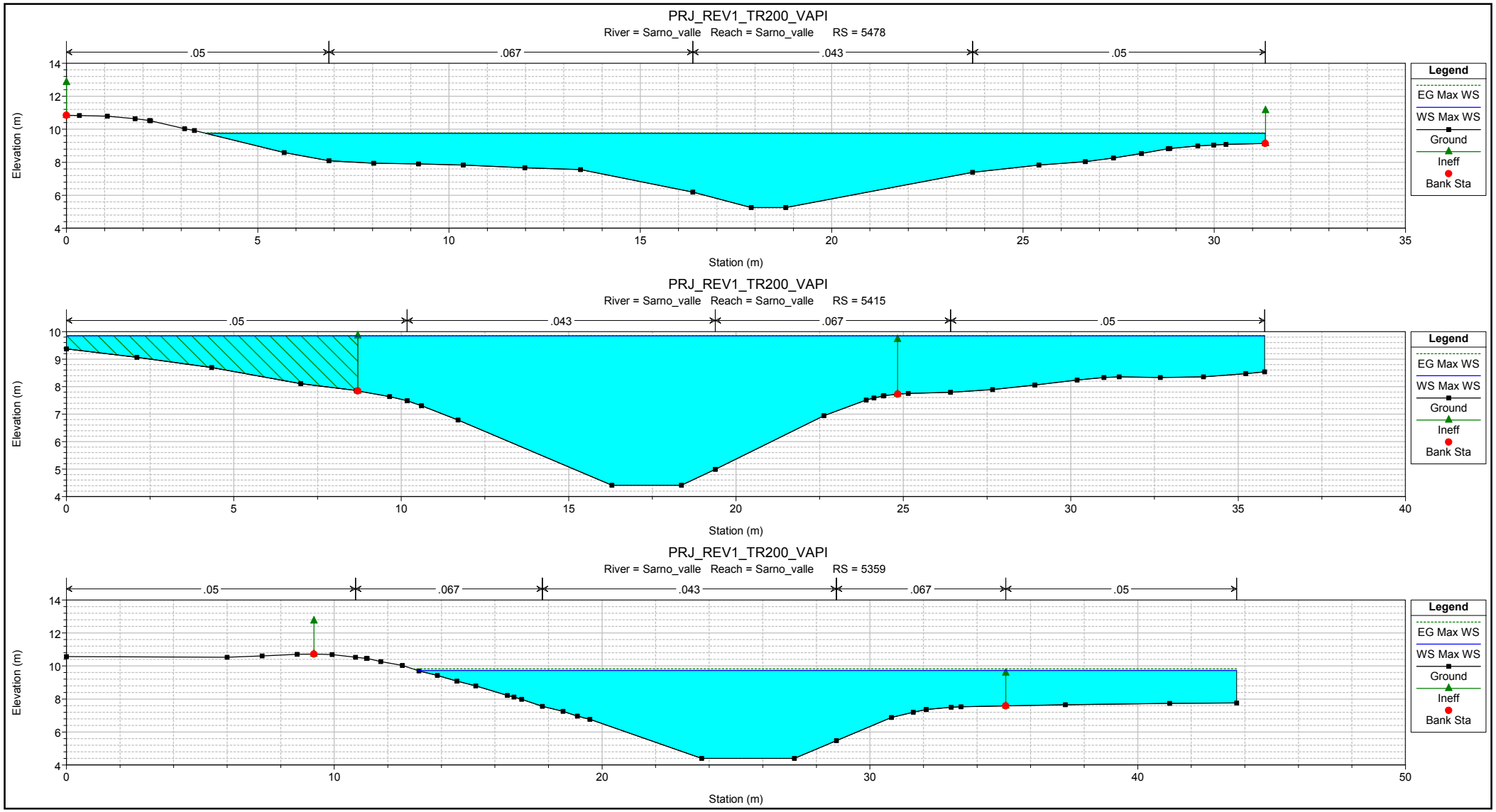

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6325
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6158
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6097
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

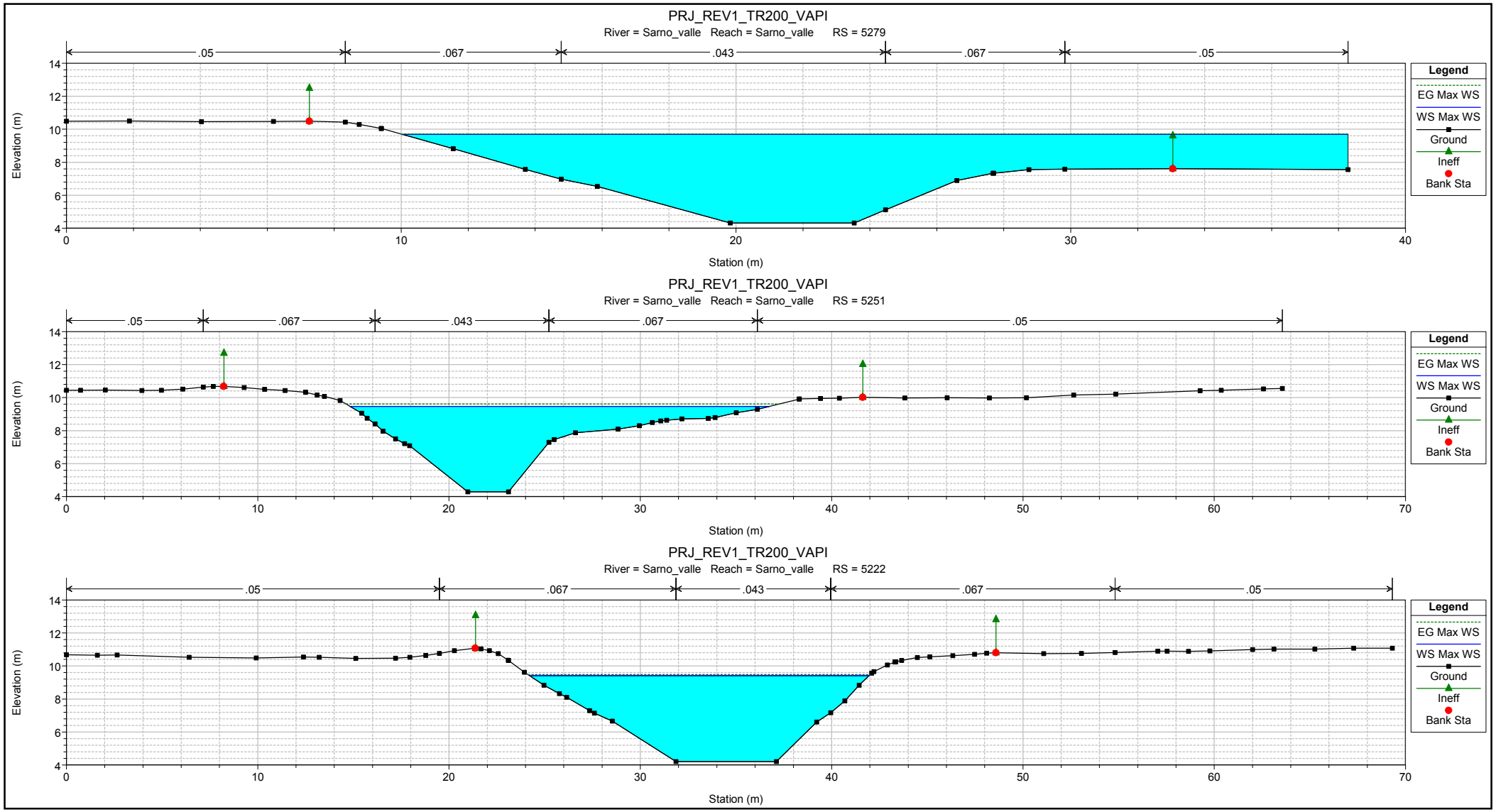

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6081
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6076
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6049
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

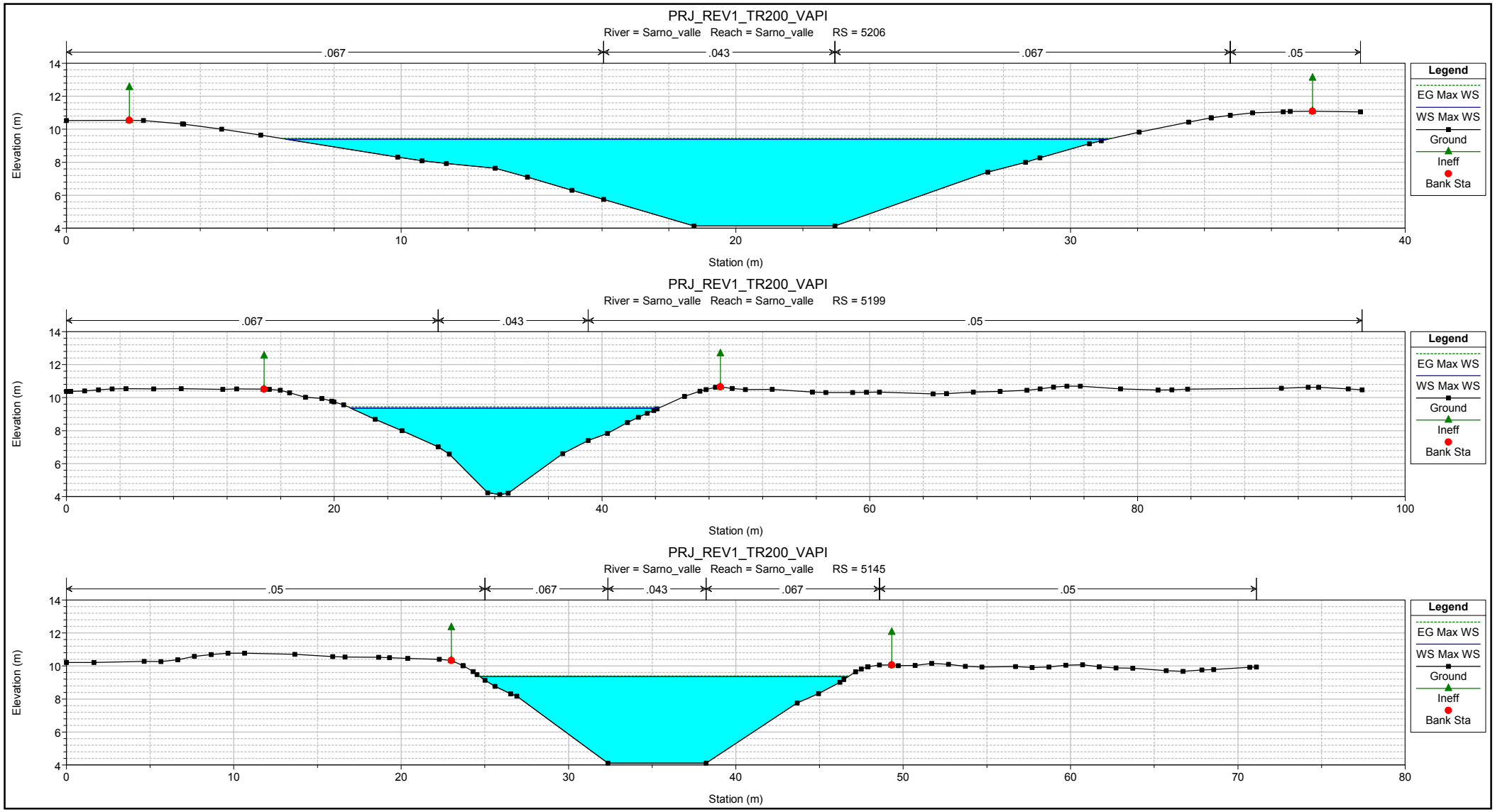

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5980
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5917
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5881
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

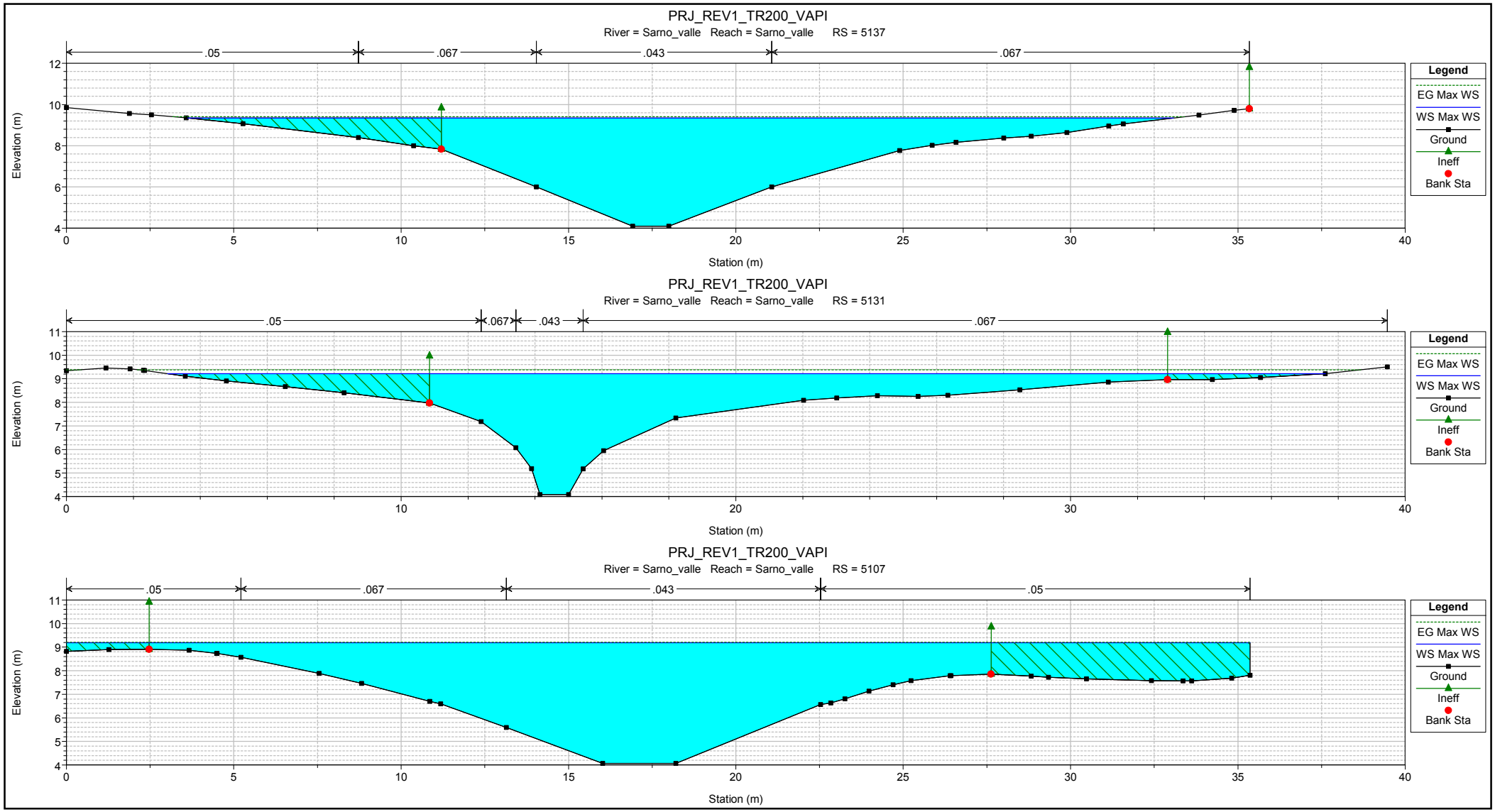

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5861
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5812
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5744
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

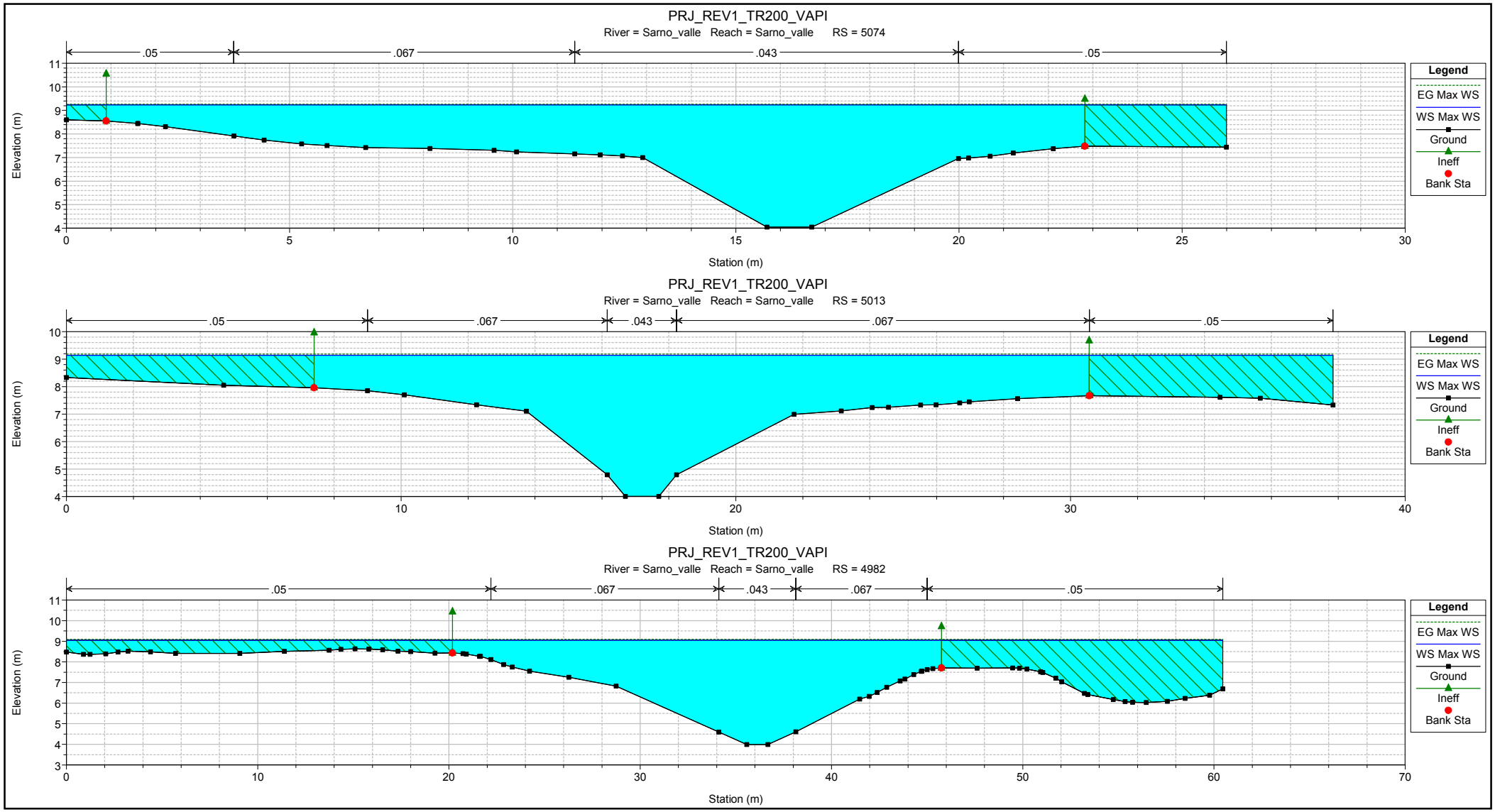

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5662
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5604
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5552
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

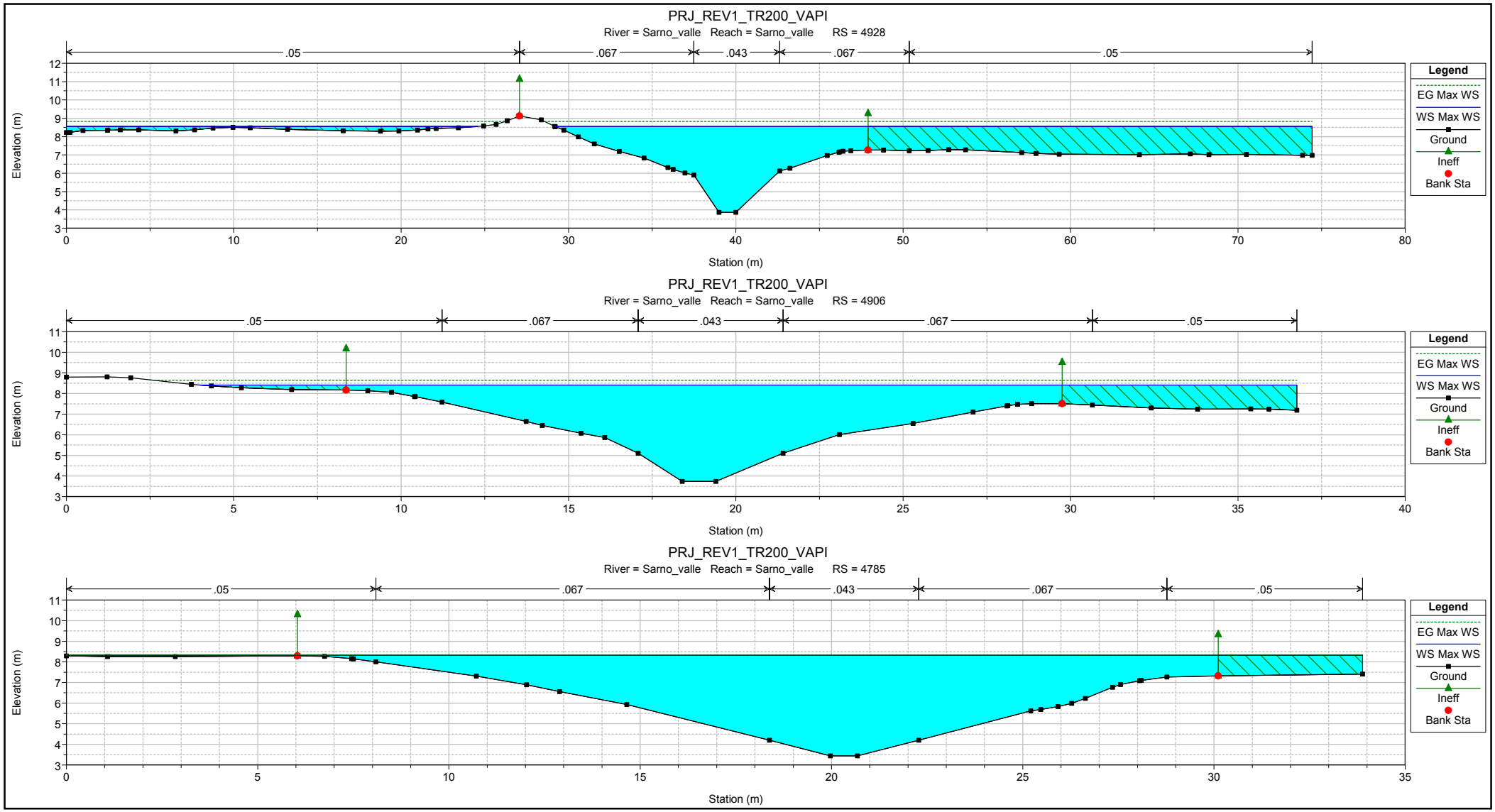

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5478
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5415
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5359
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

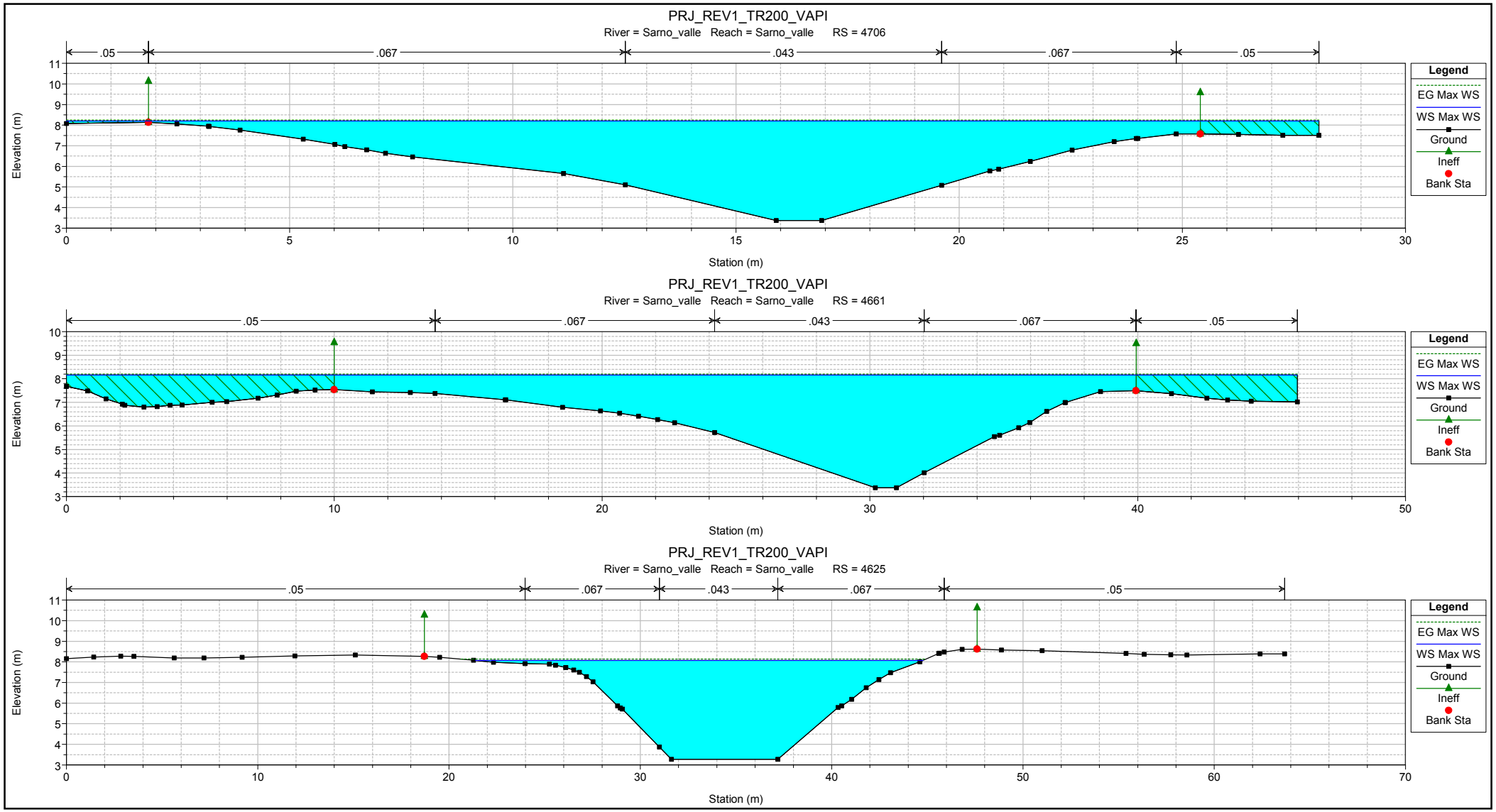

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5279
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5251
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5222
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

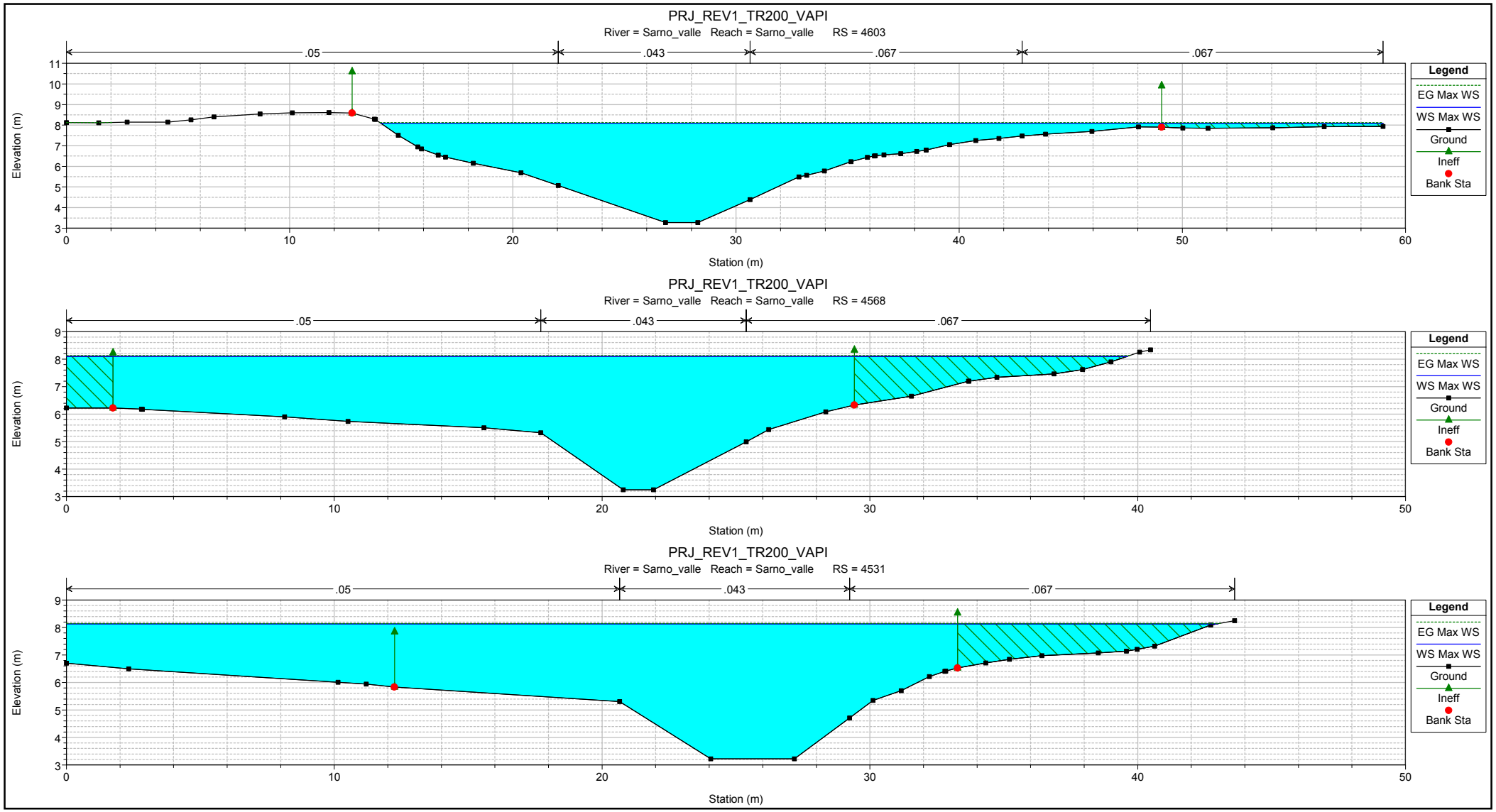

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5206
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5199
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5145
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

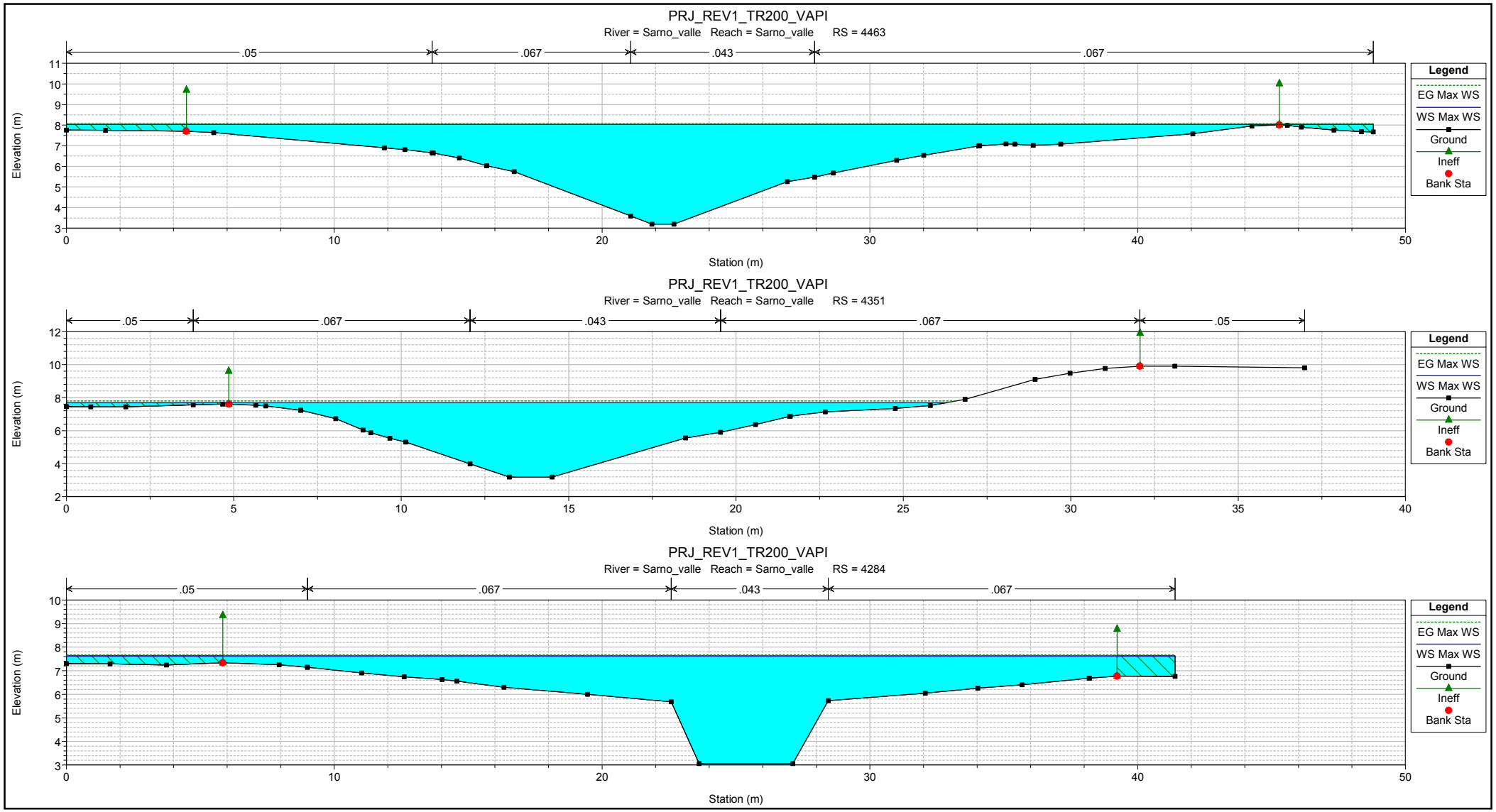

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5137
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5131
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5107
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

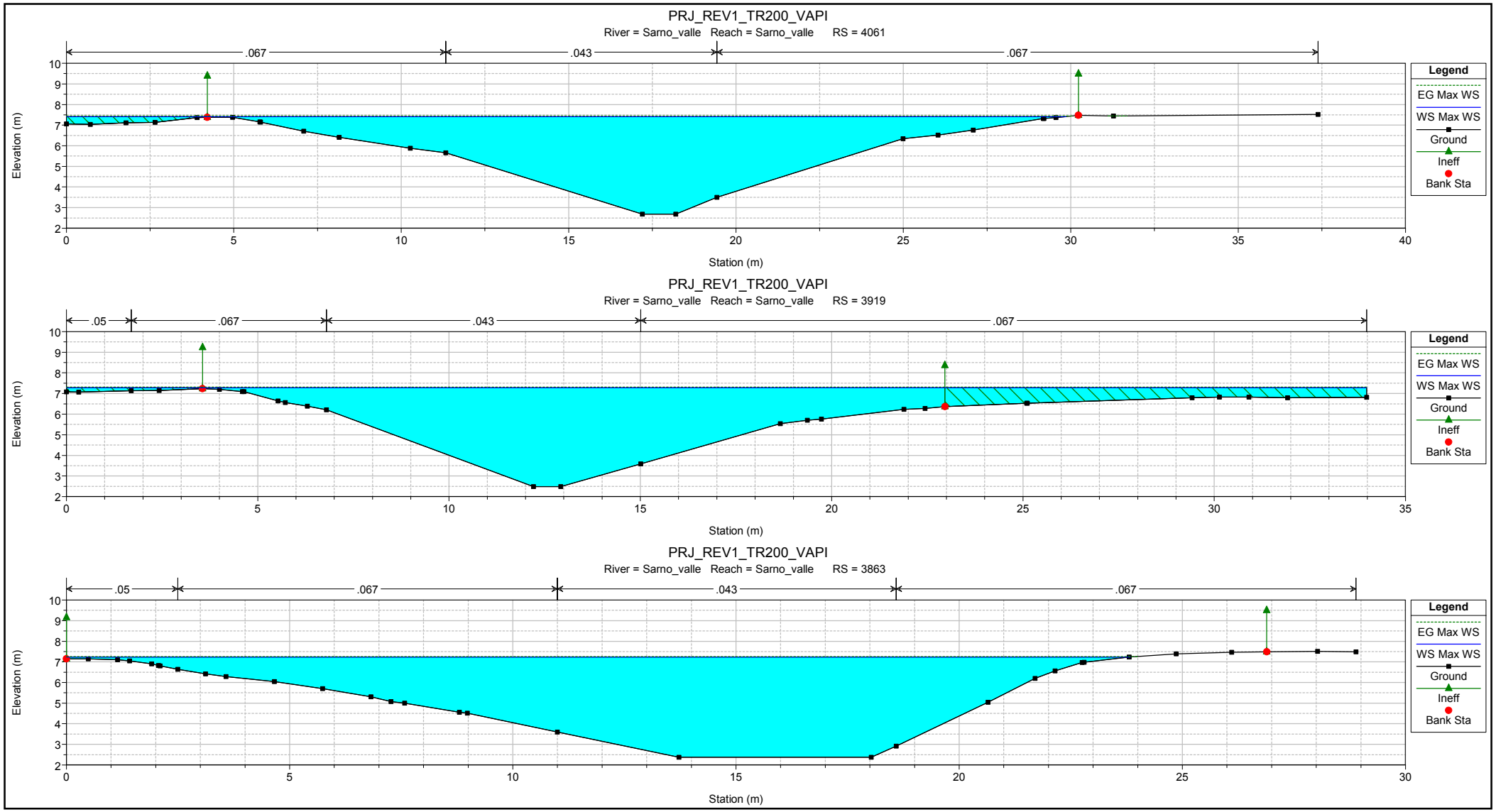

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5074
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5013
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4982
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

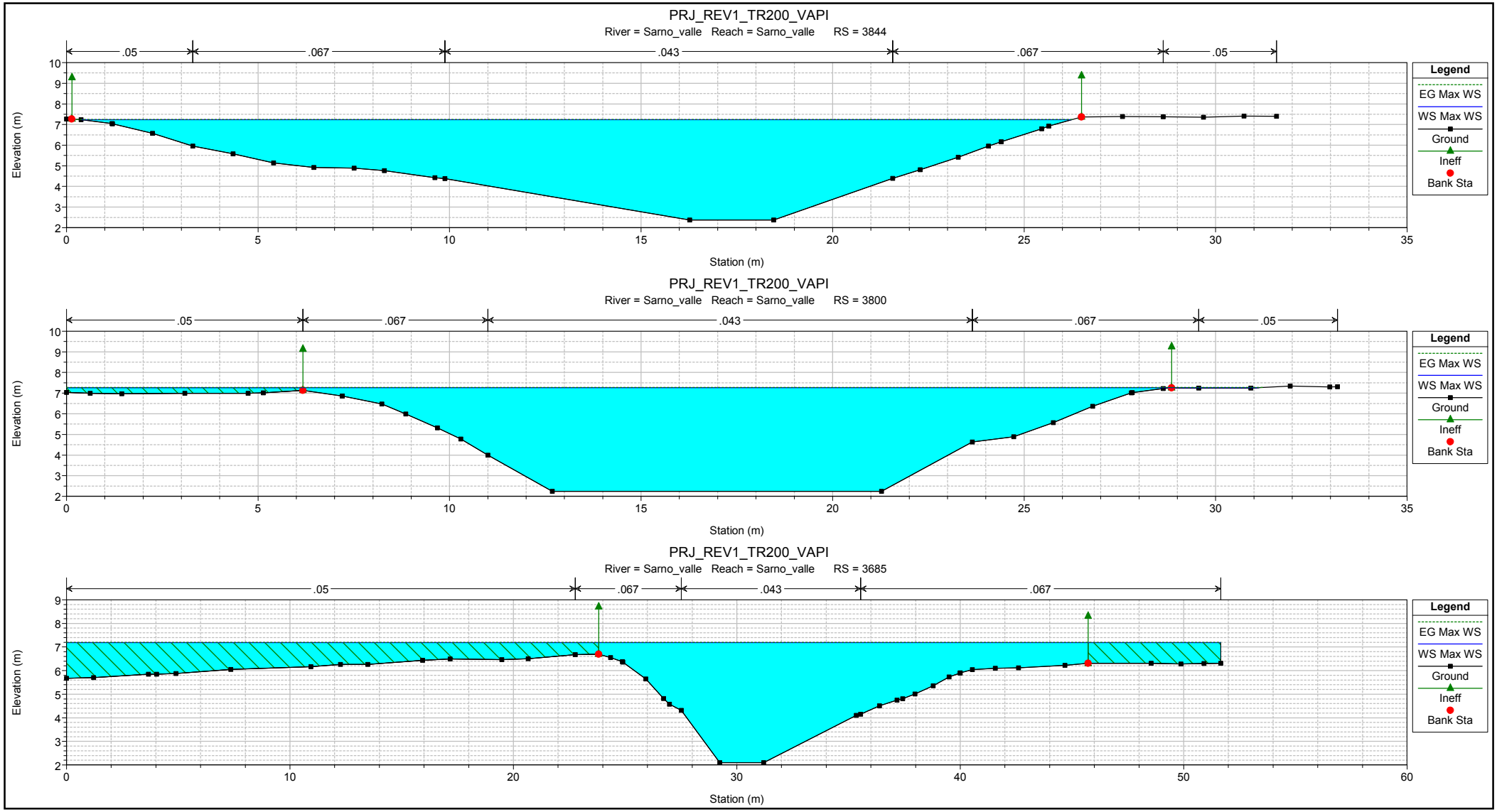

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4928
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4906
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4785
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

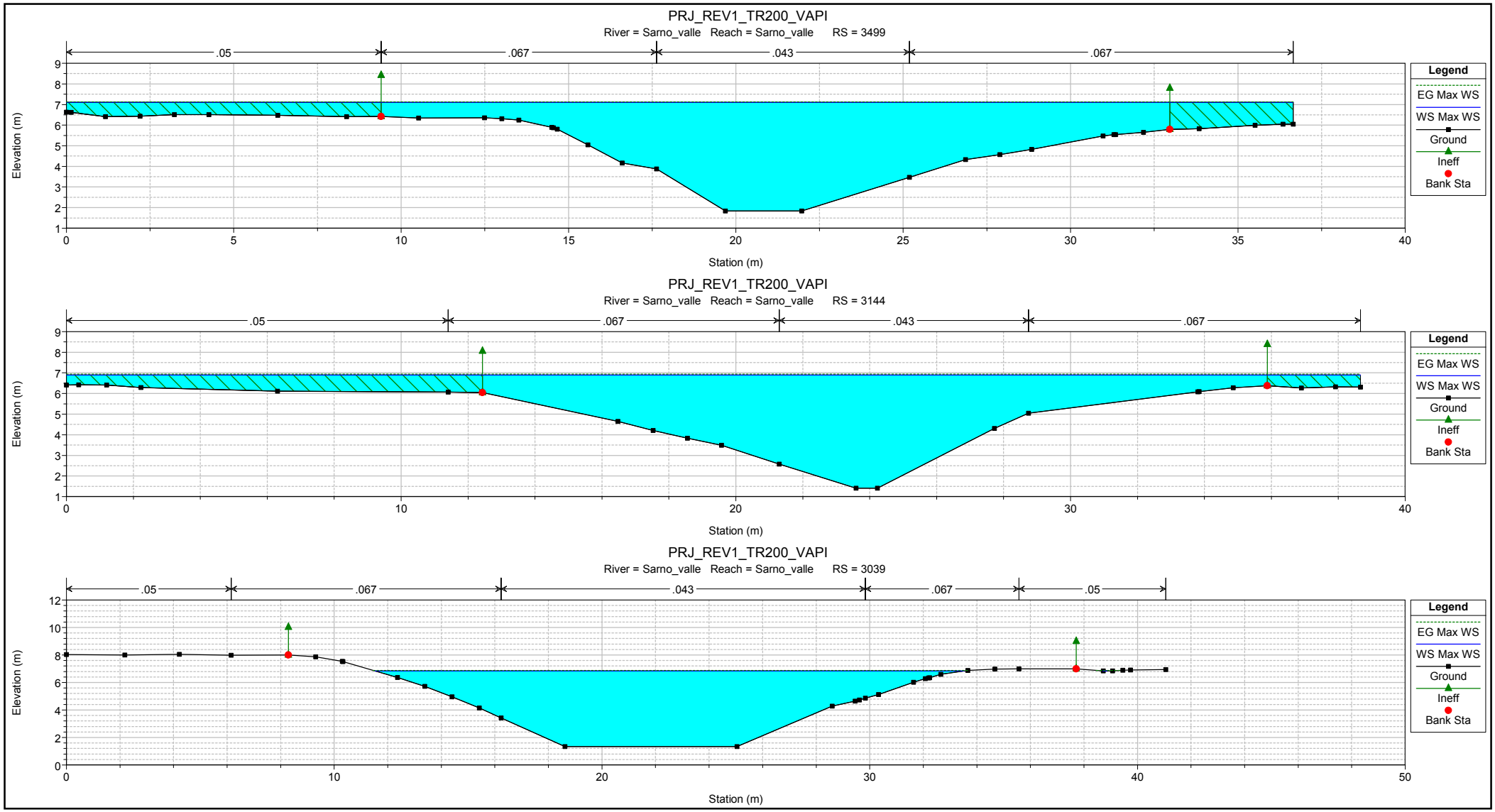

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4706
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4661
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4625
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

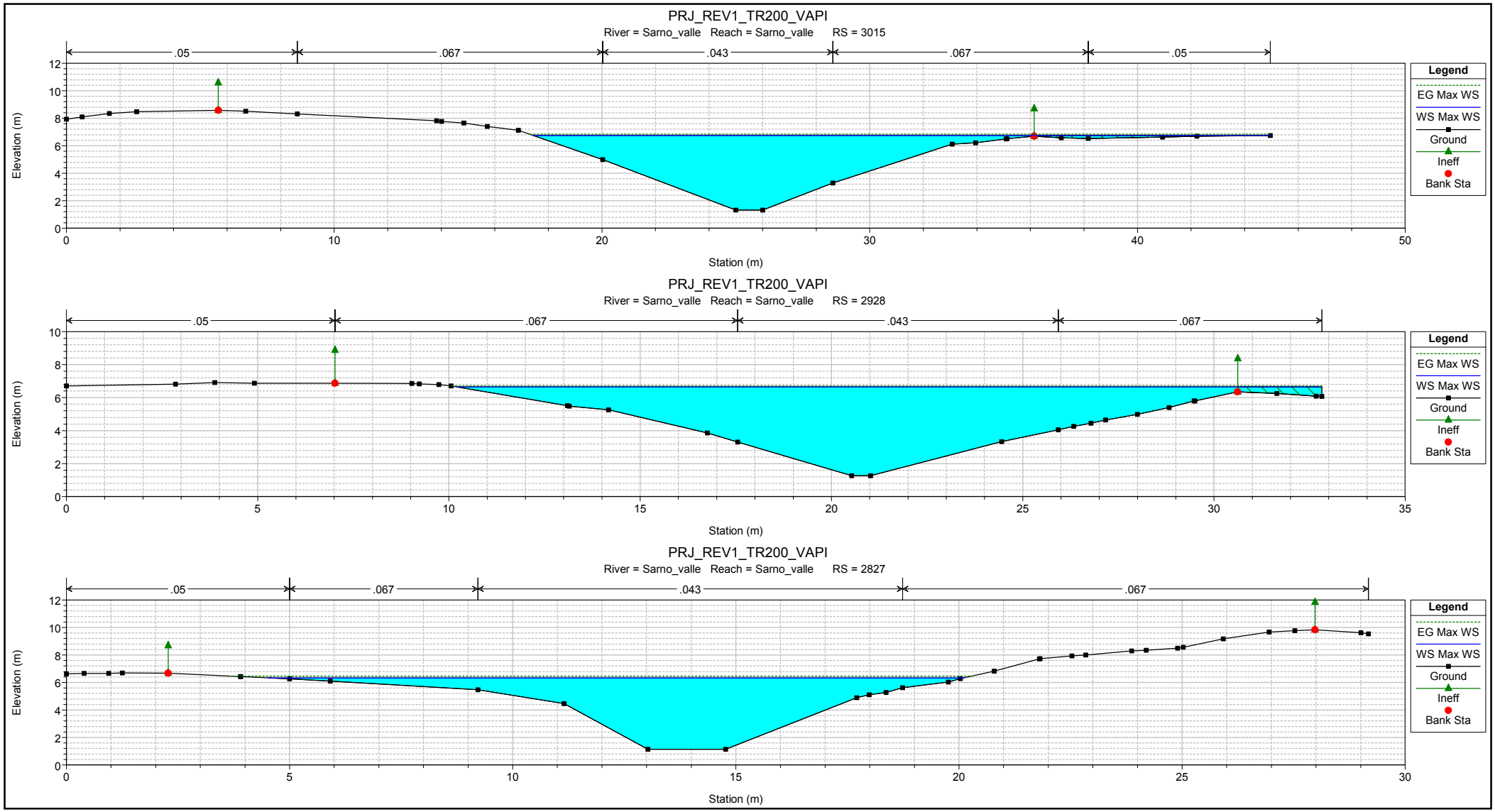

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4603
.05
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4568
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4531
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

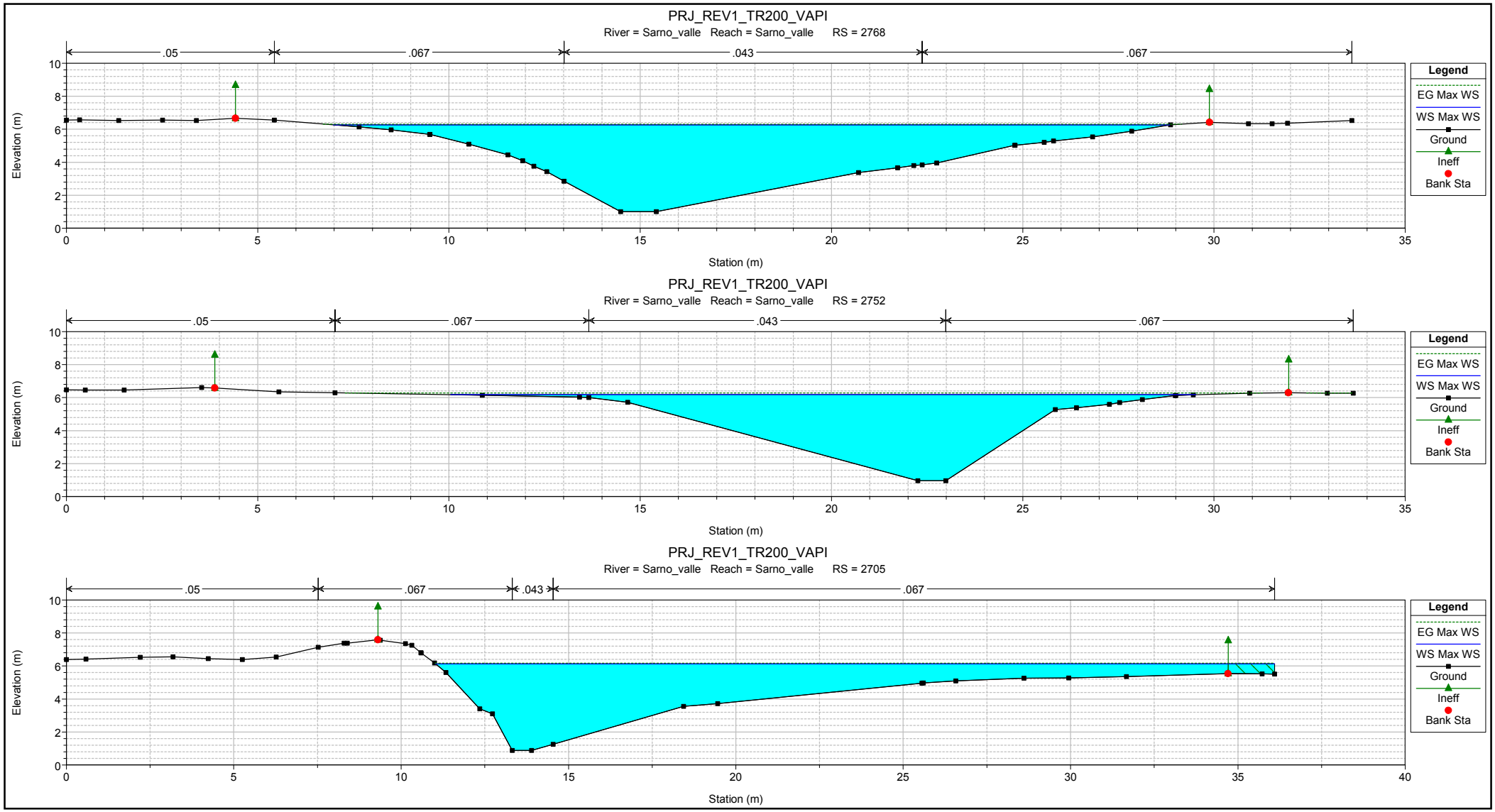

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4463
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4284
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

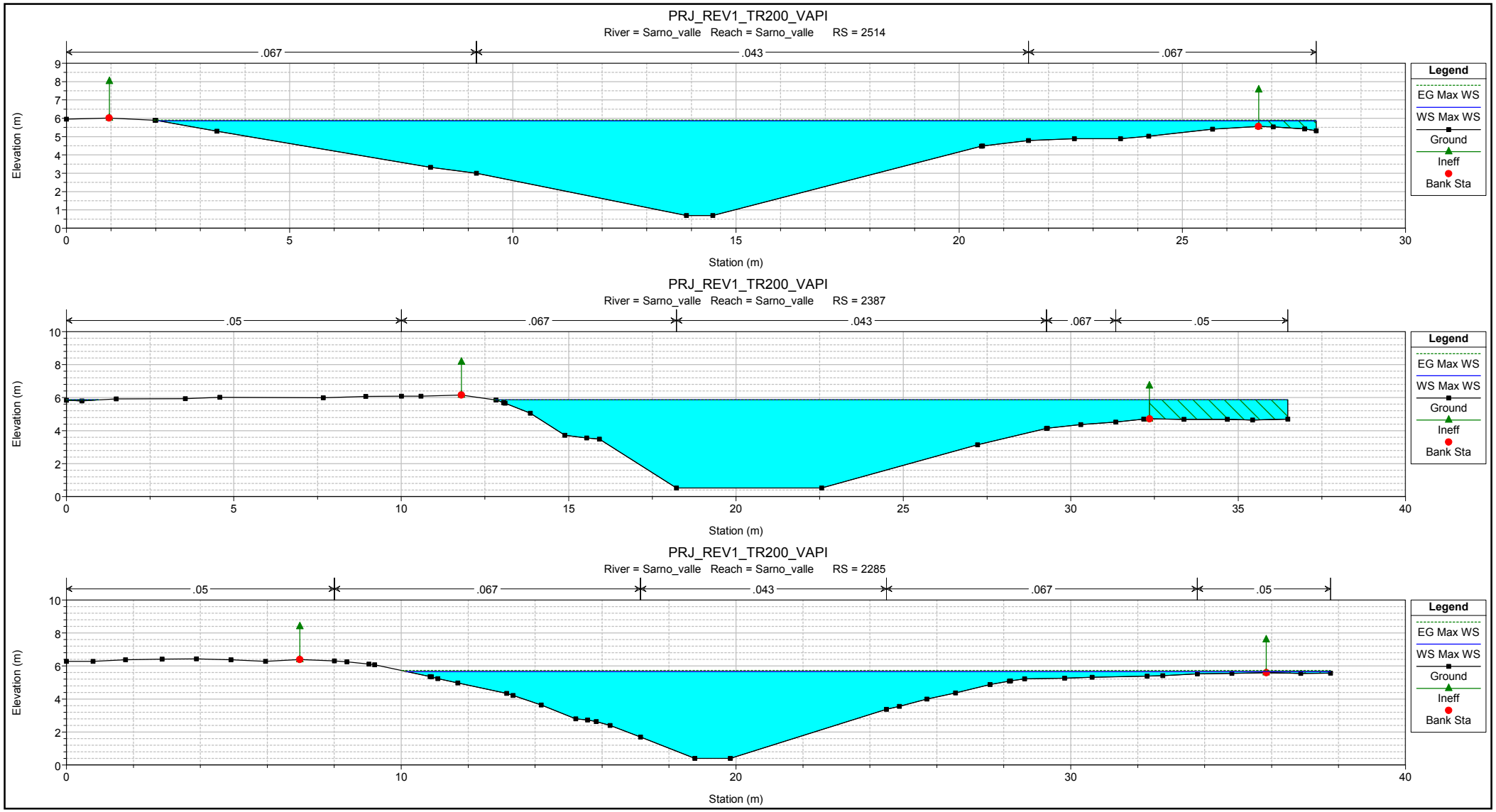

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4061
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3919
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3863
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

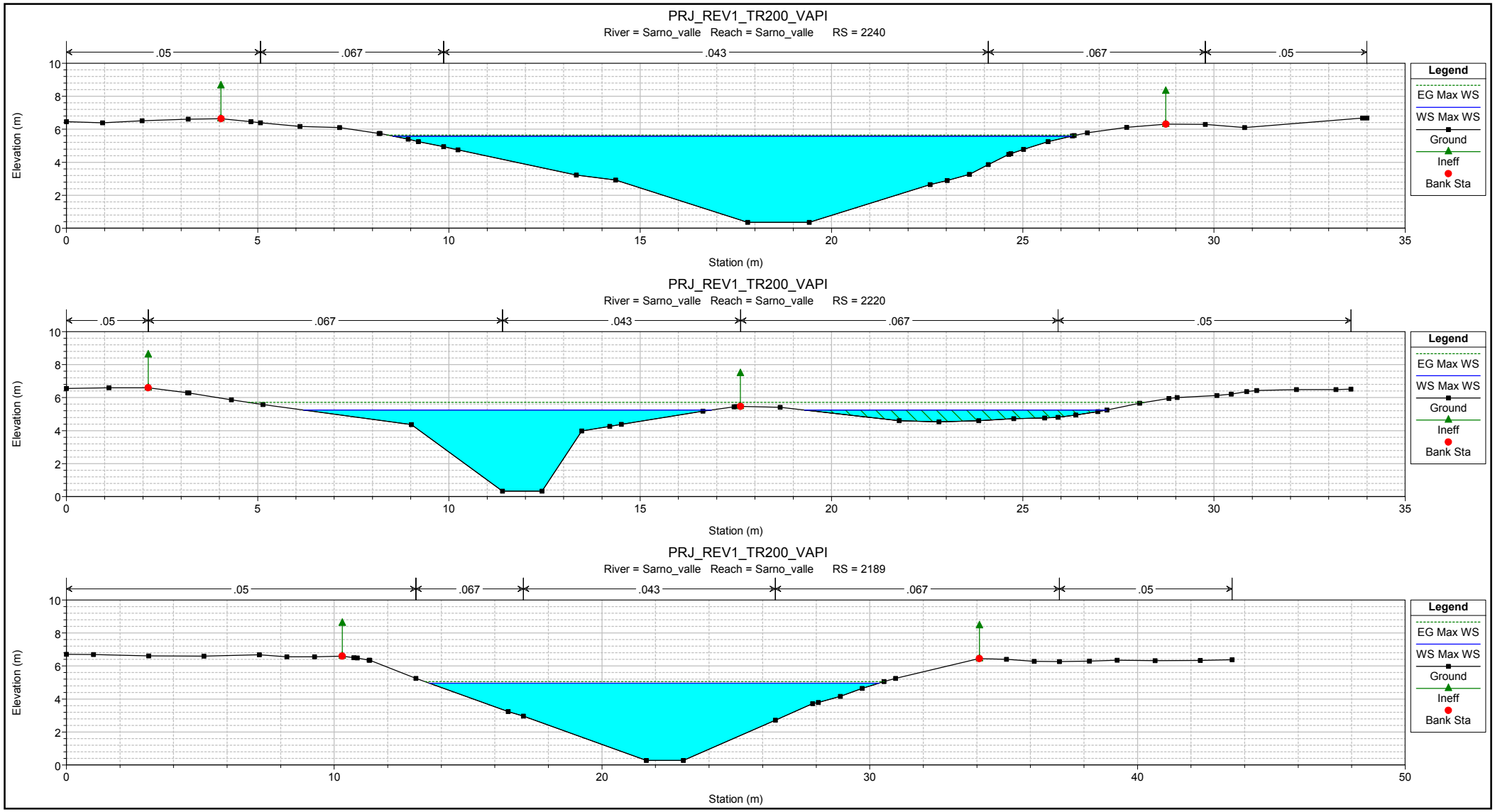

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3844
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3800
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3685
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

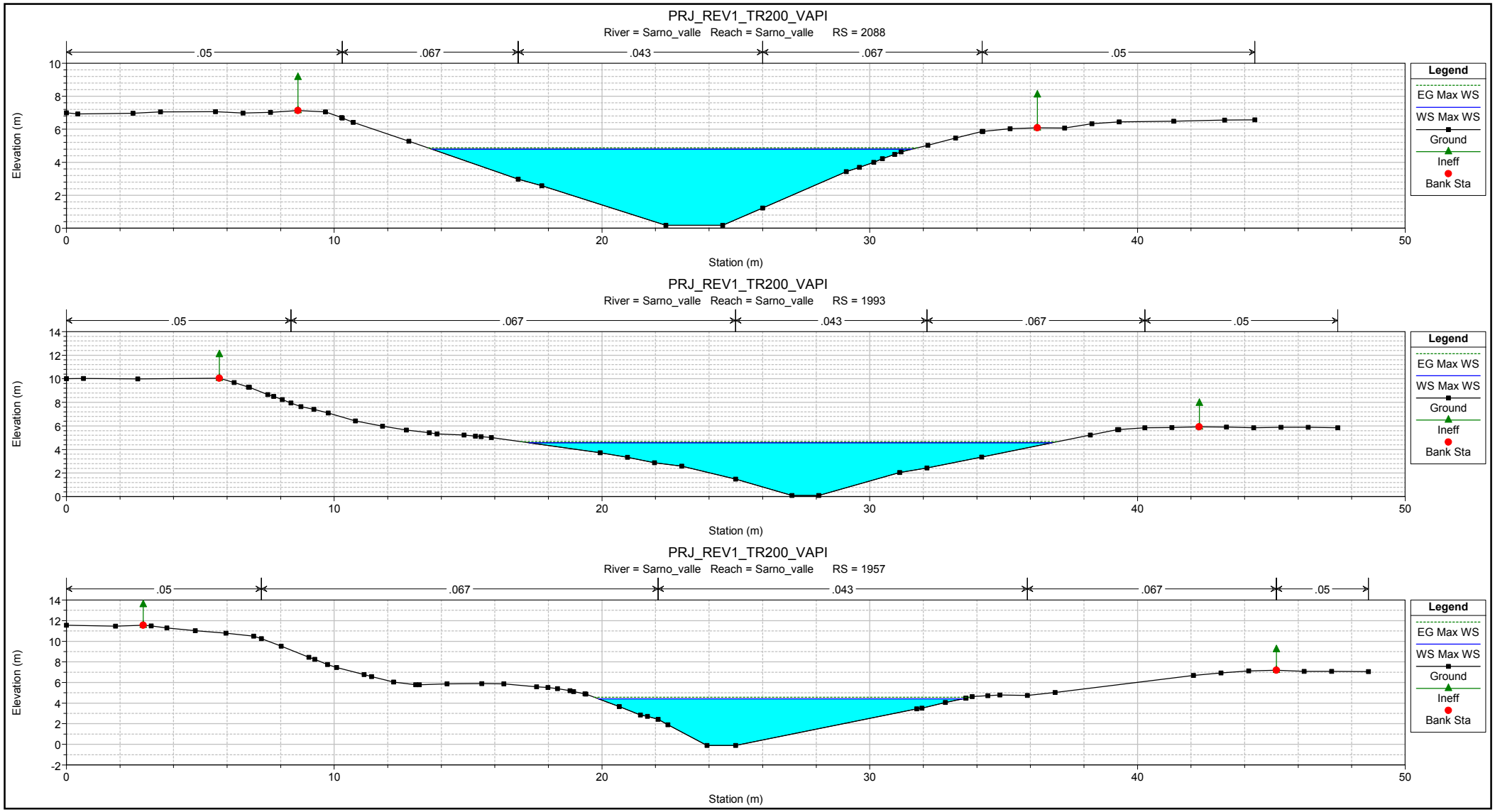

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3499
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3144
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3039
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

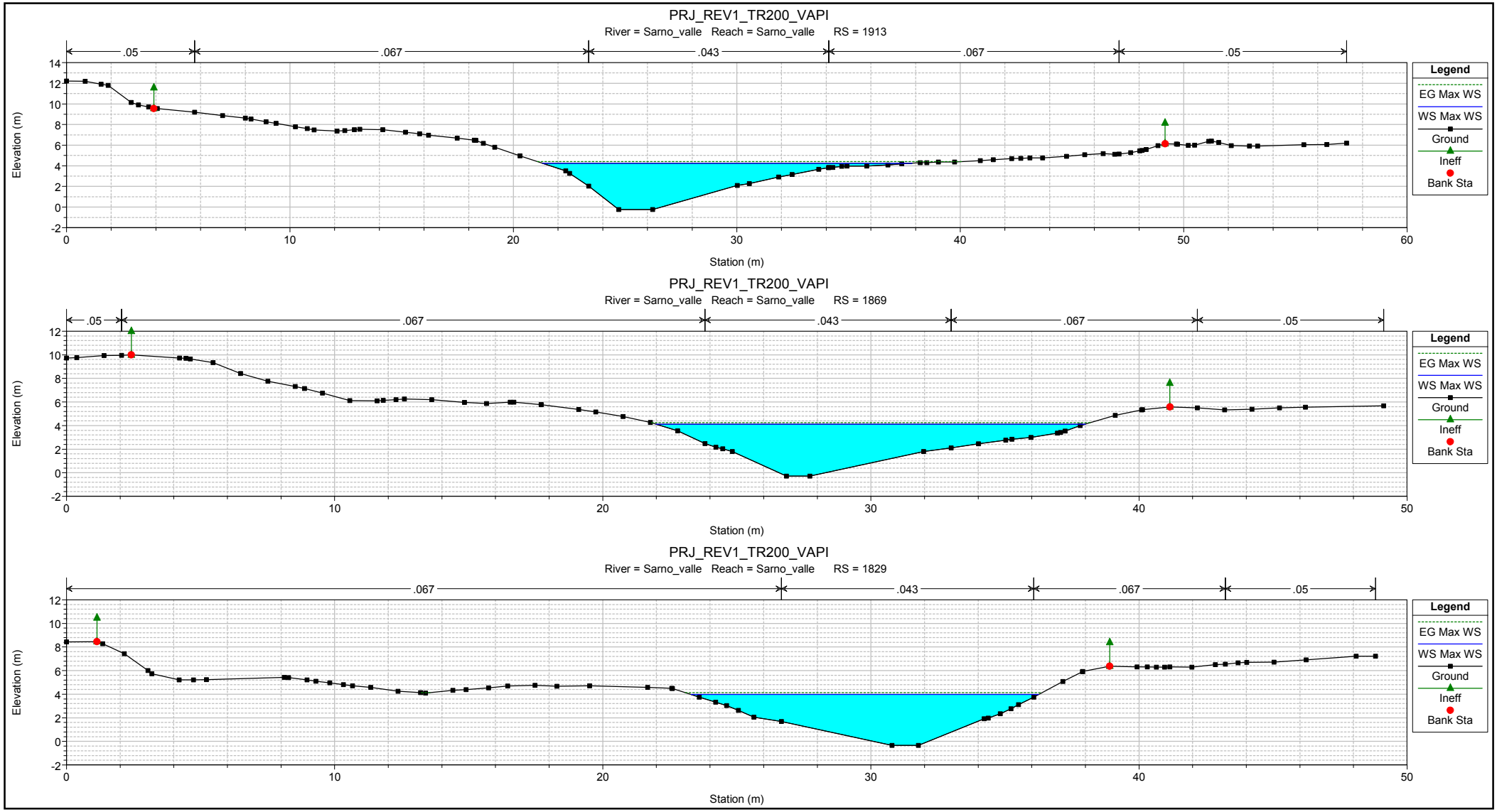

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3015
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2928
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2827
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

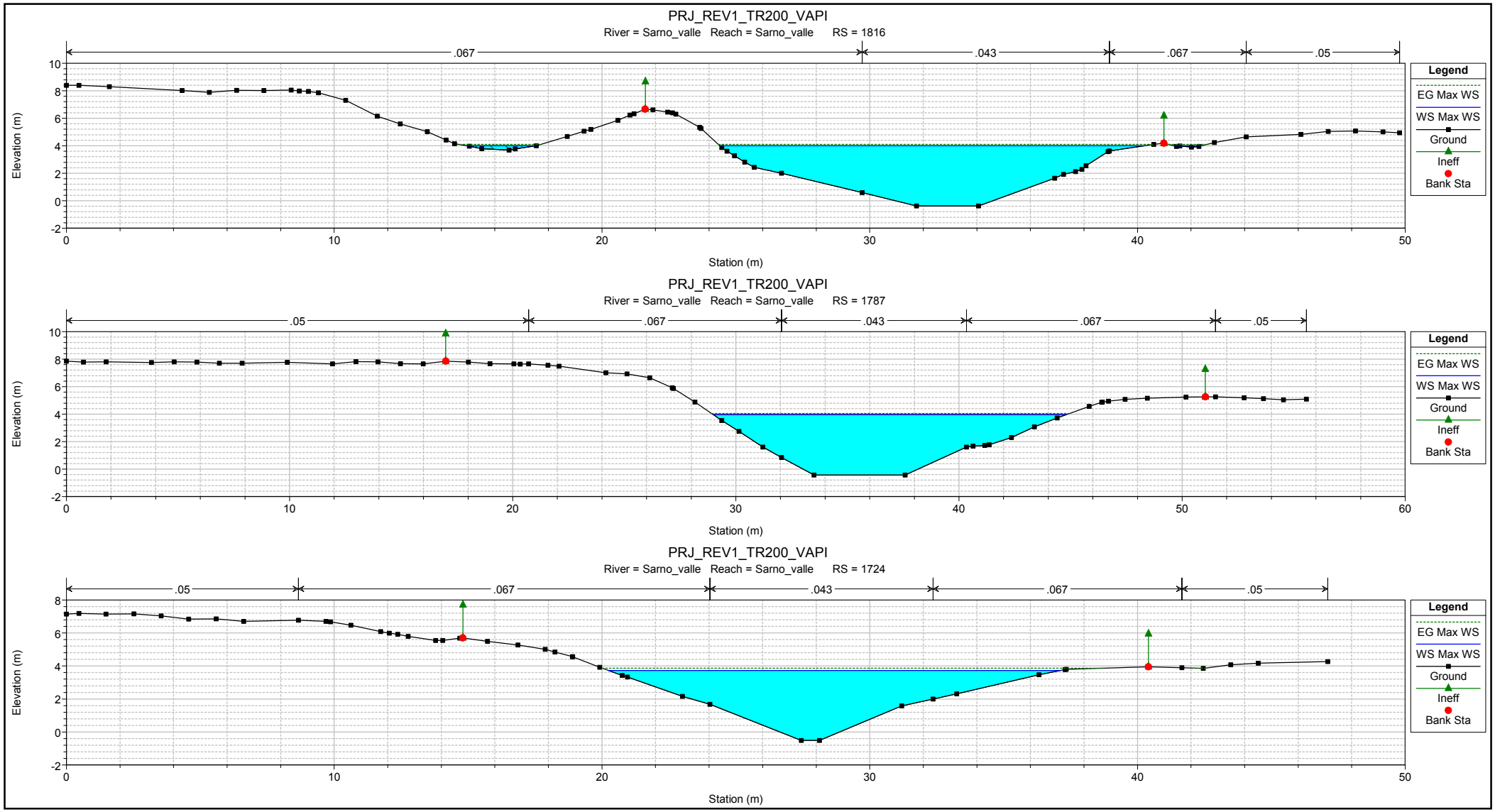

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2768
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2752
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2705
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

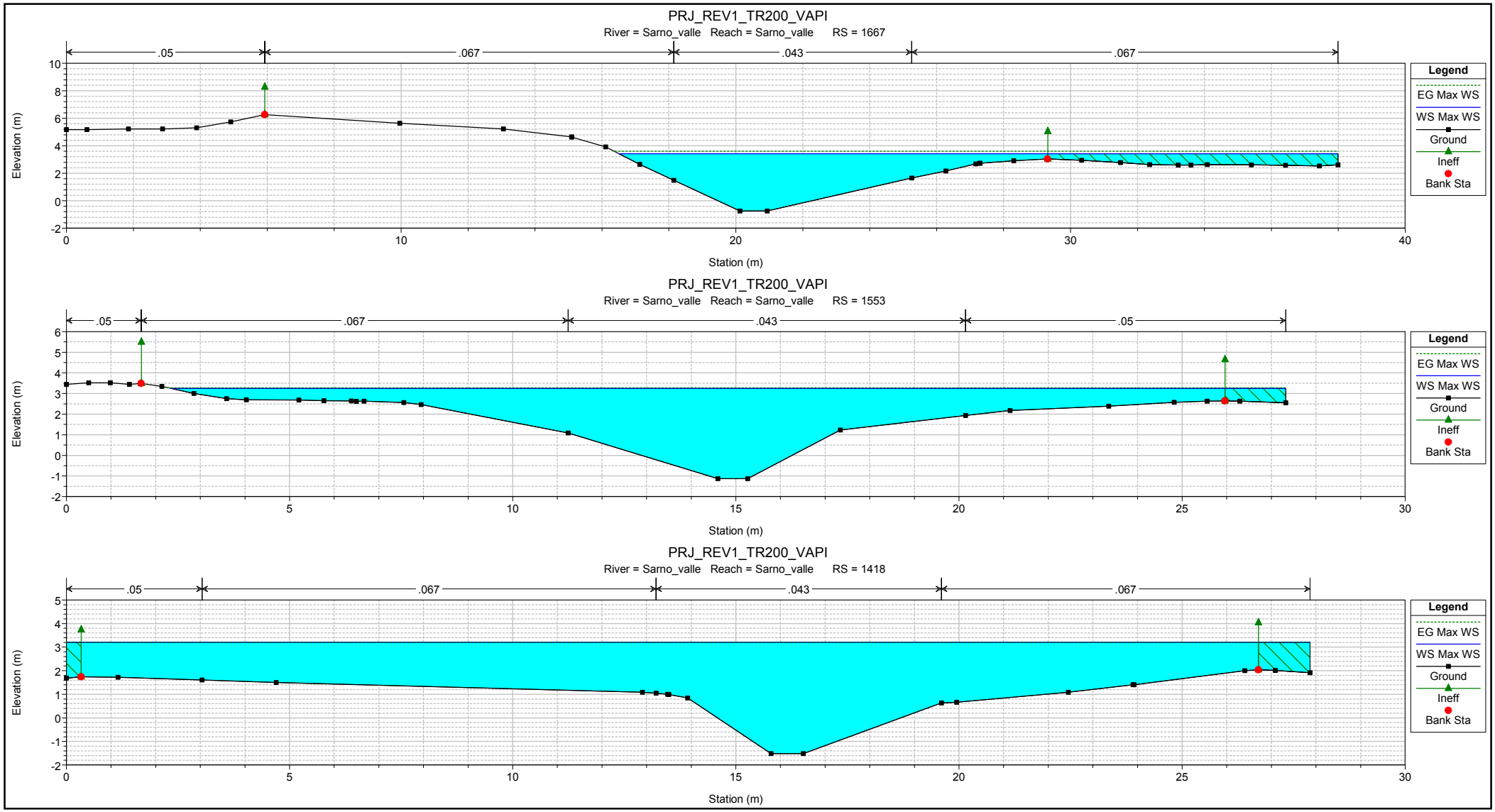

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2514
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2387
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2285
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

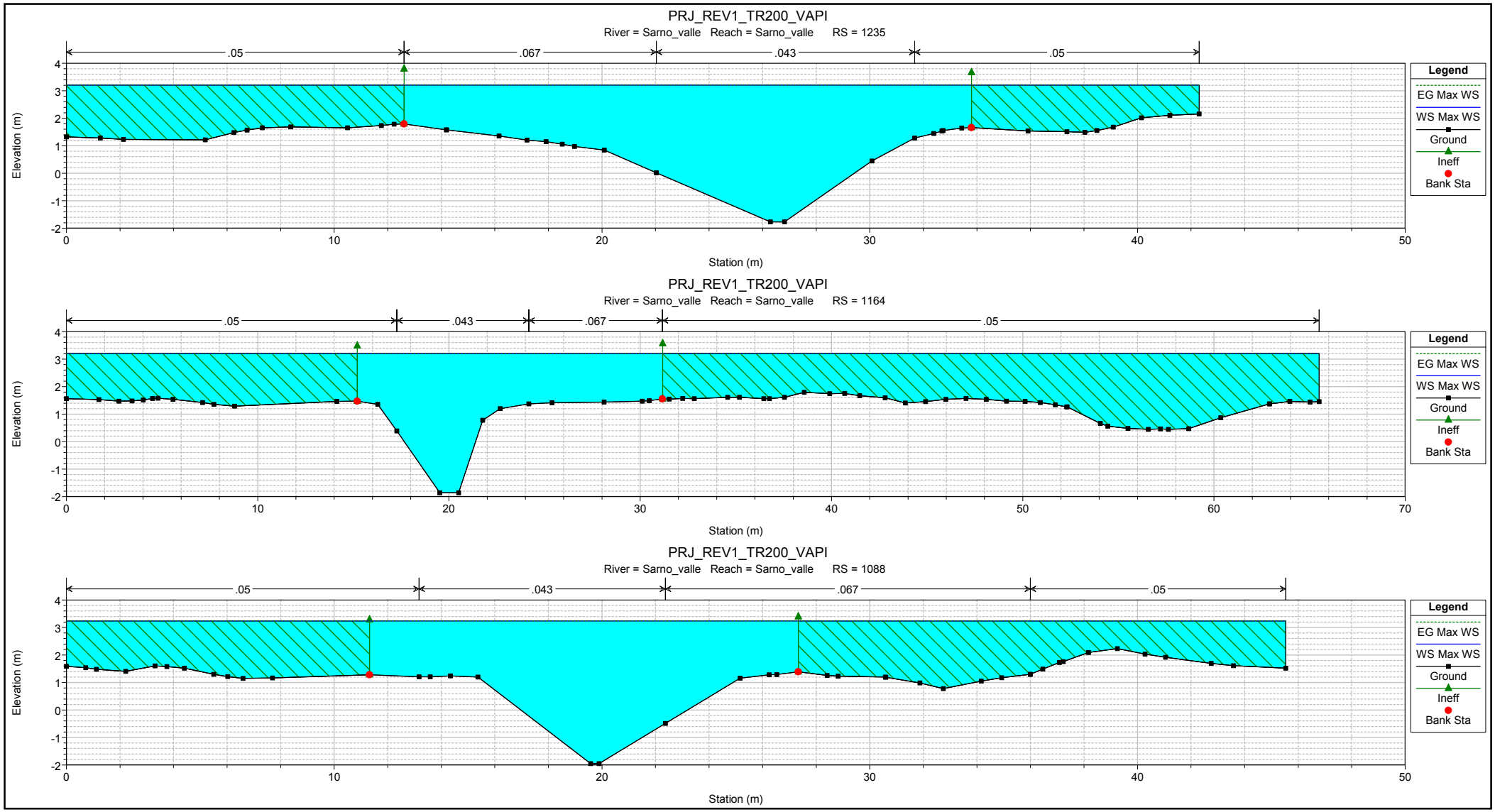

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2240
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2189
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

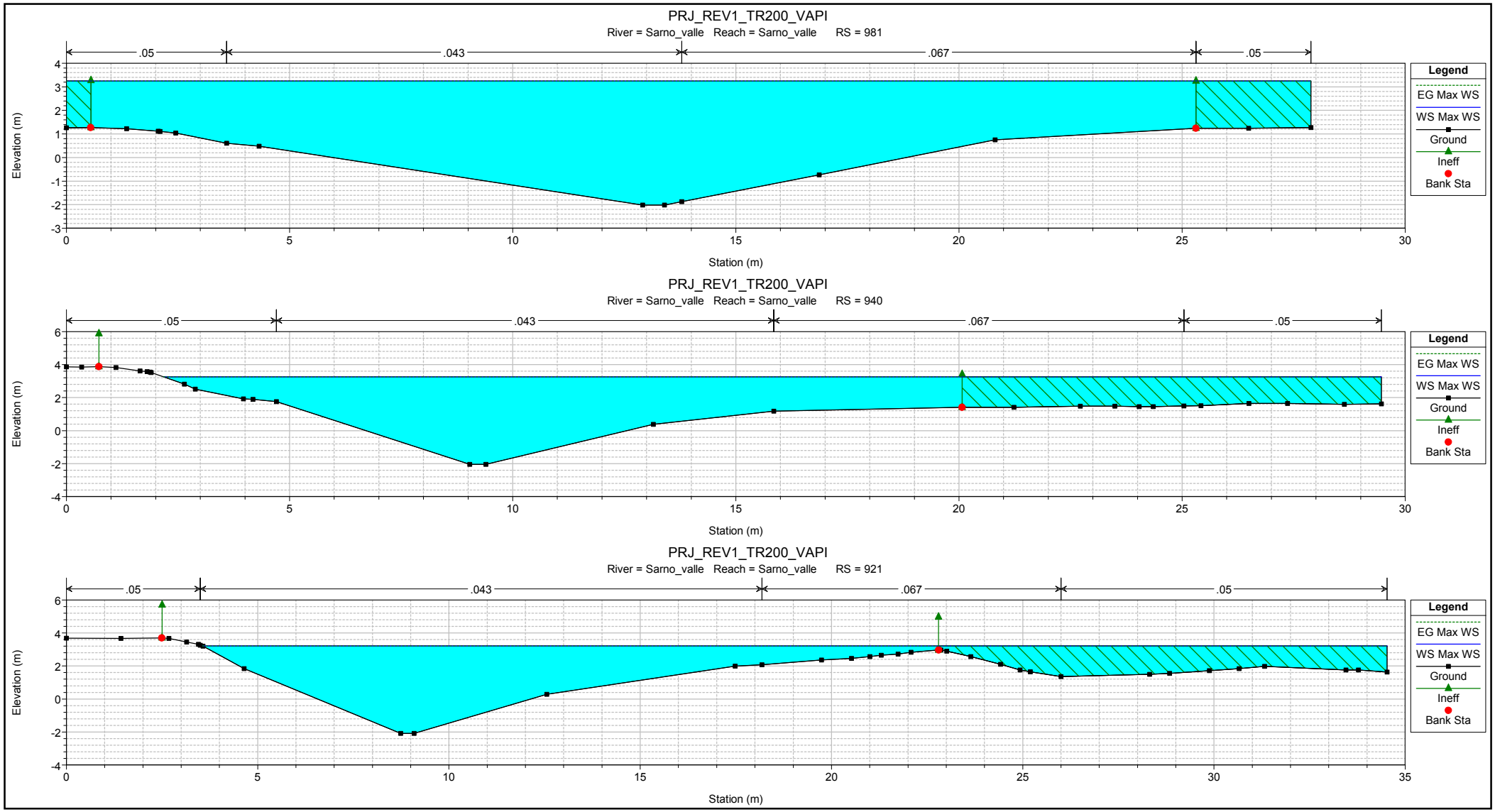

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2088
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1993
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1957
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

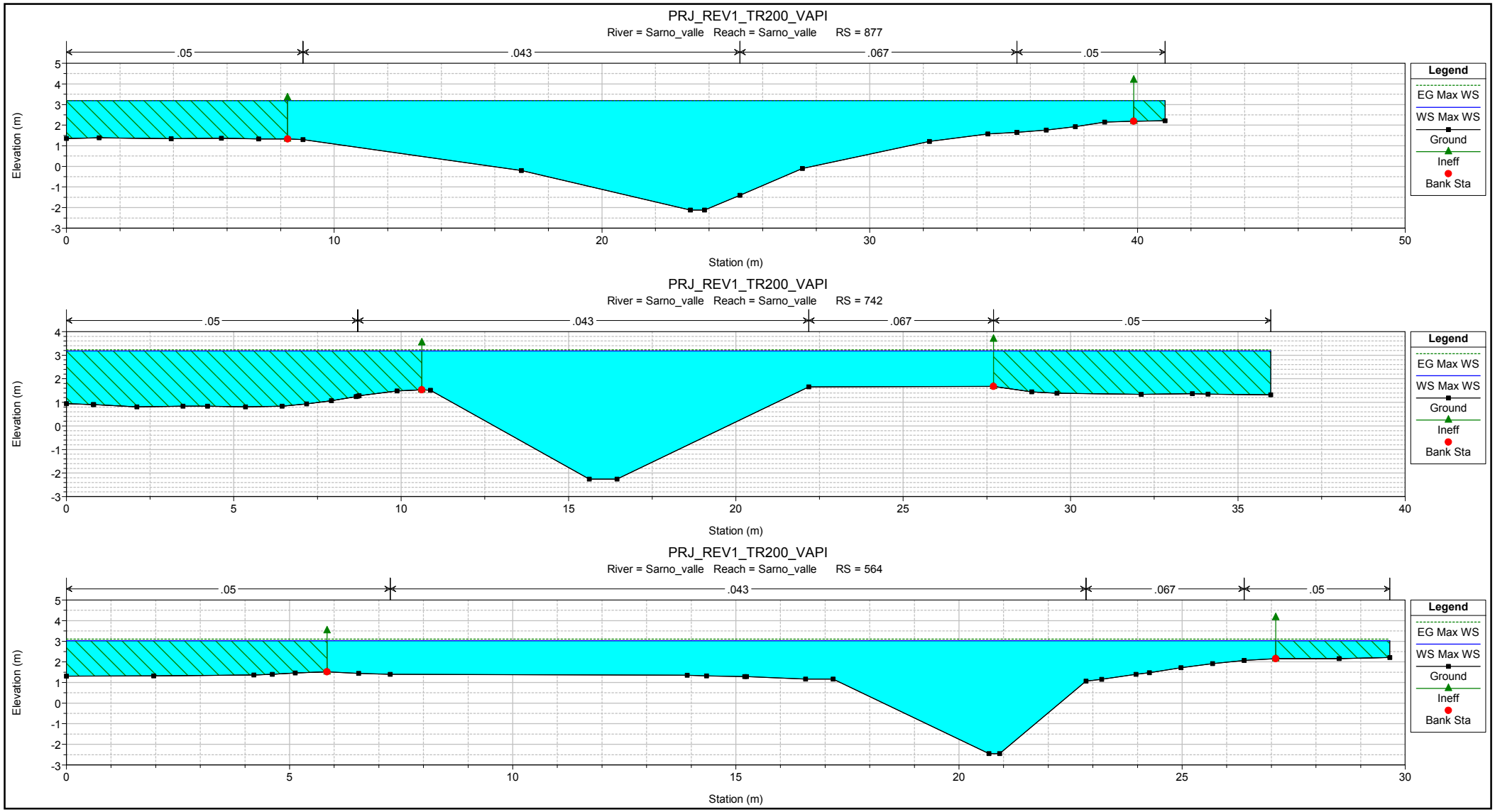

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1913
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1869
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1829
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

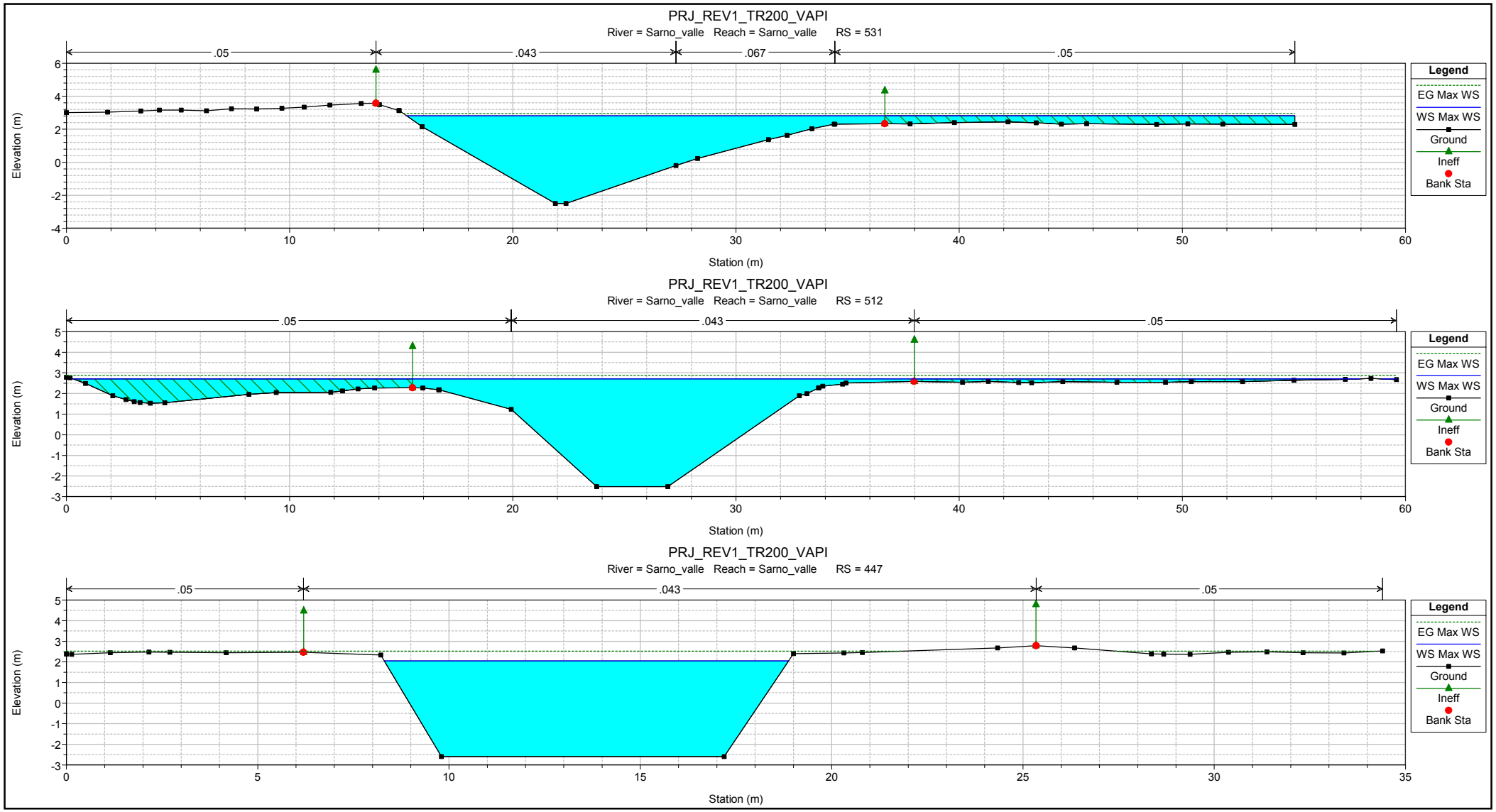

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1816
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1787
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1724
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

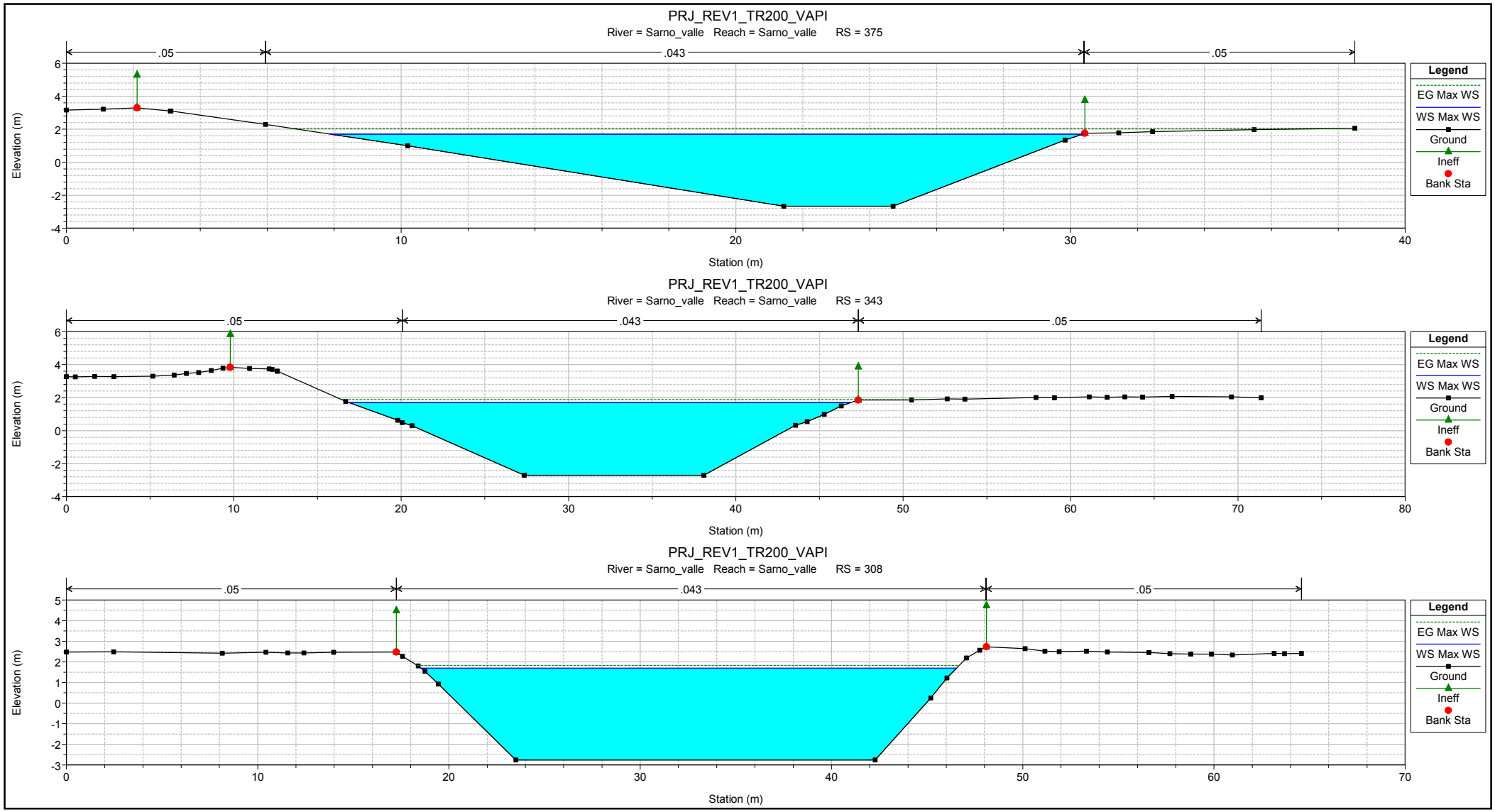

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1667
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1553
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1418
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

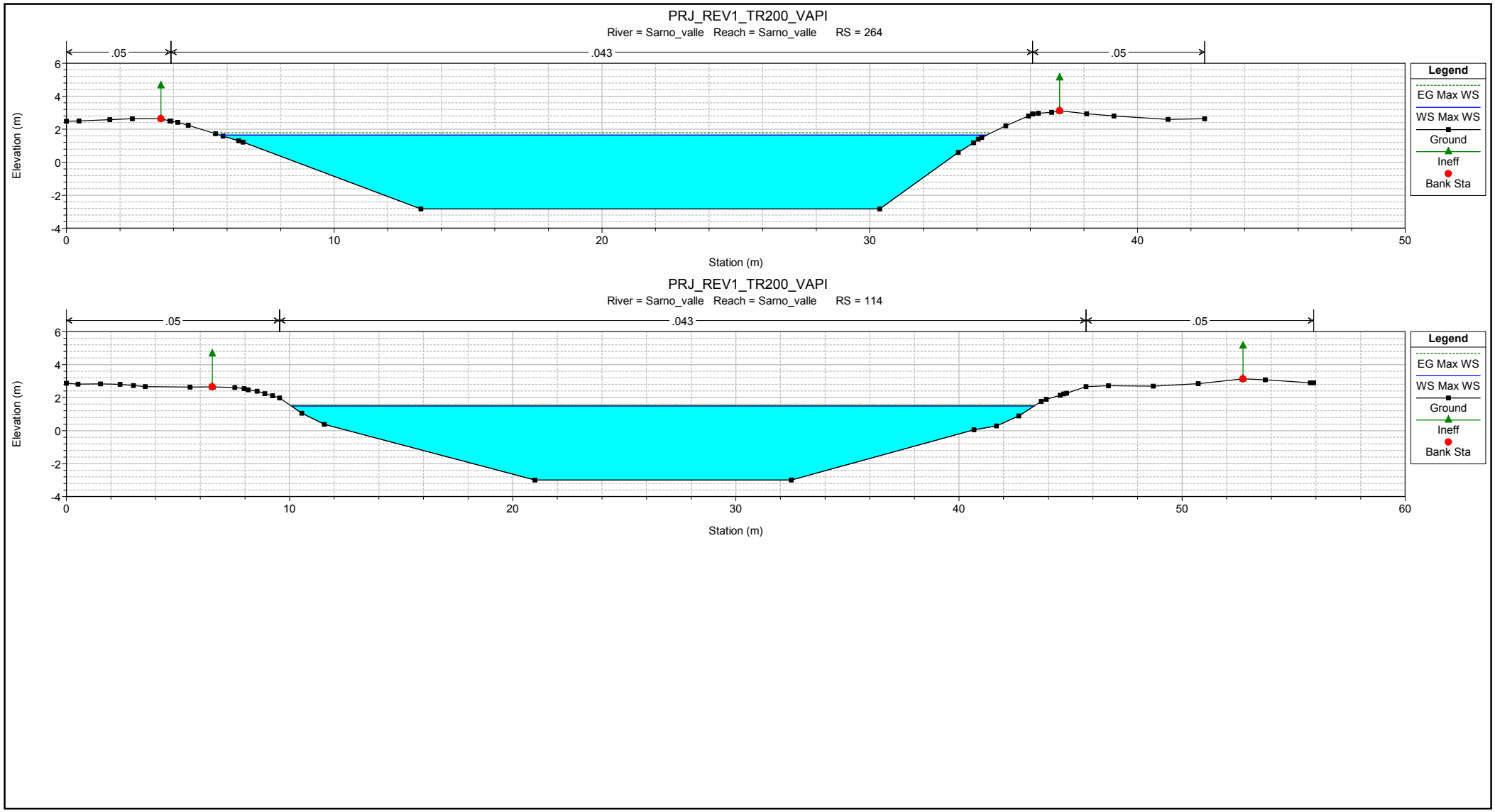

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1235
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1164
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1088
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 981
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 940
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 921
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

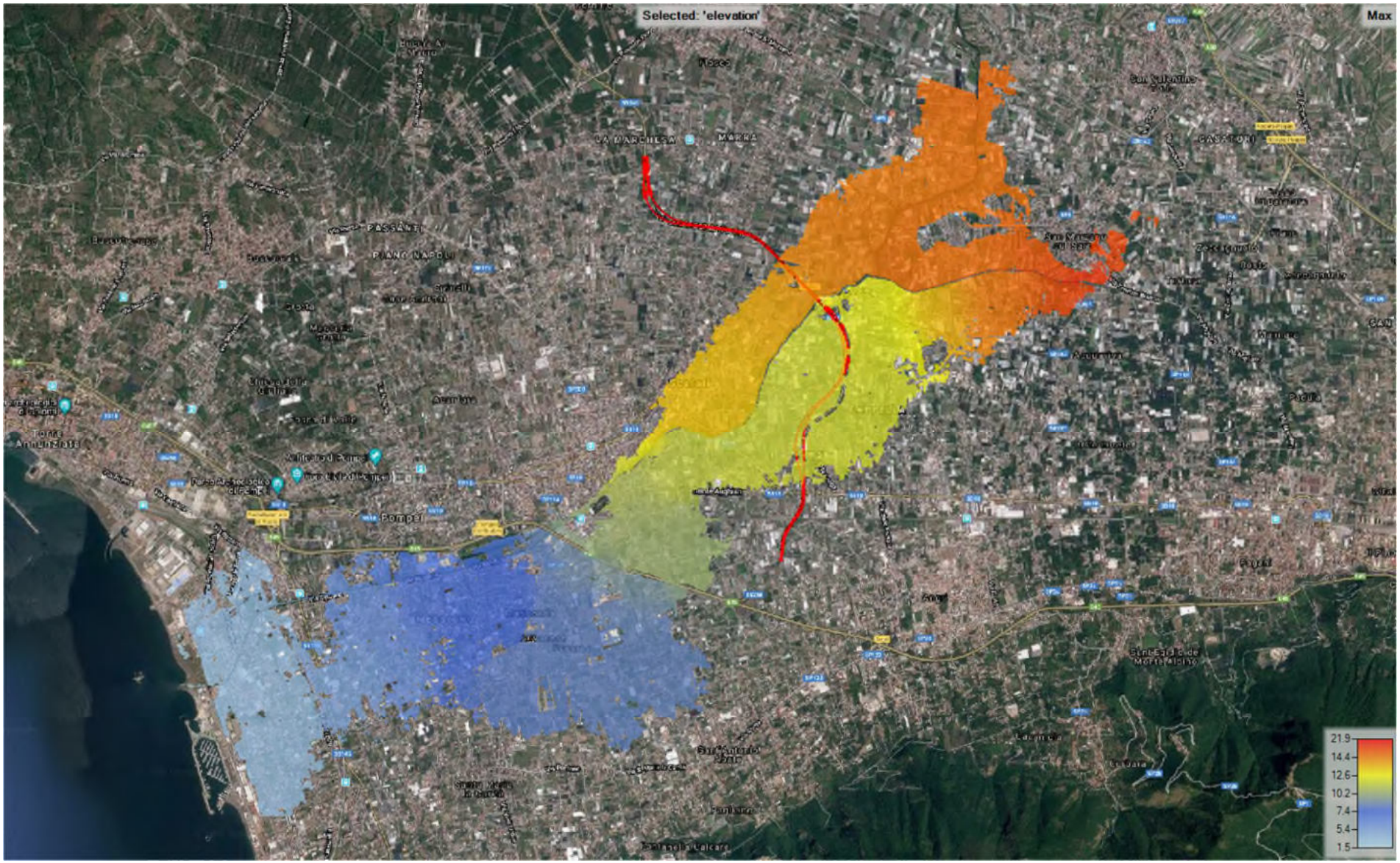

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 877
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 742
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 564
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 531
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 512
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 447
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

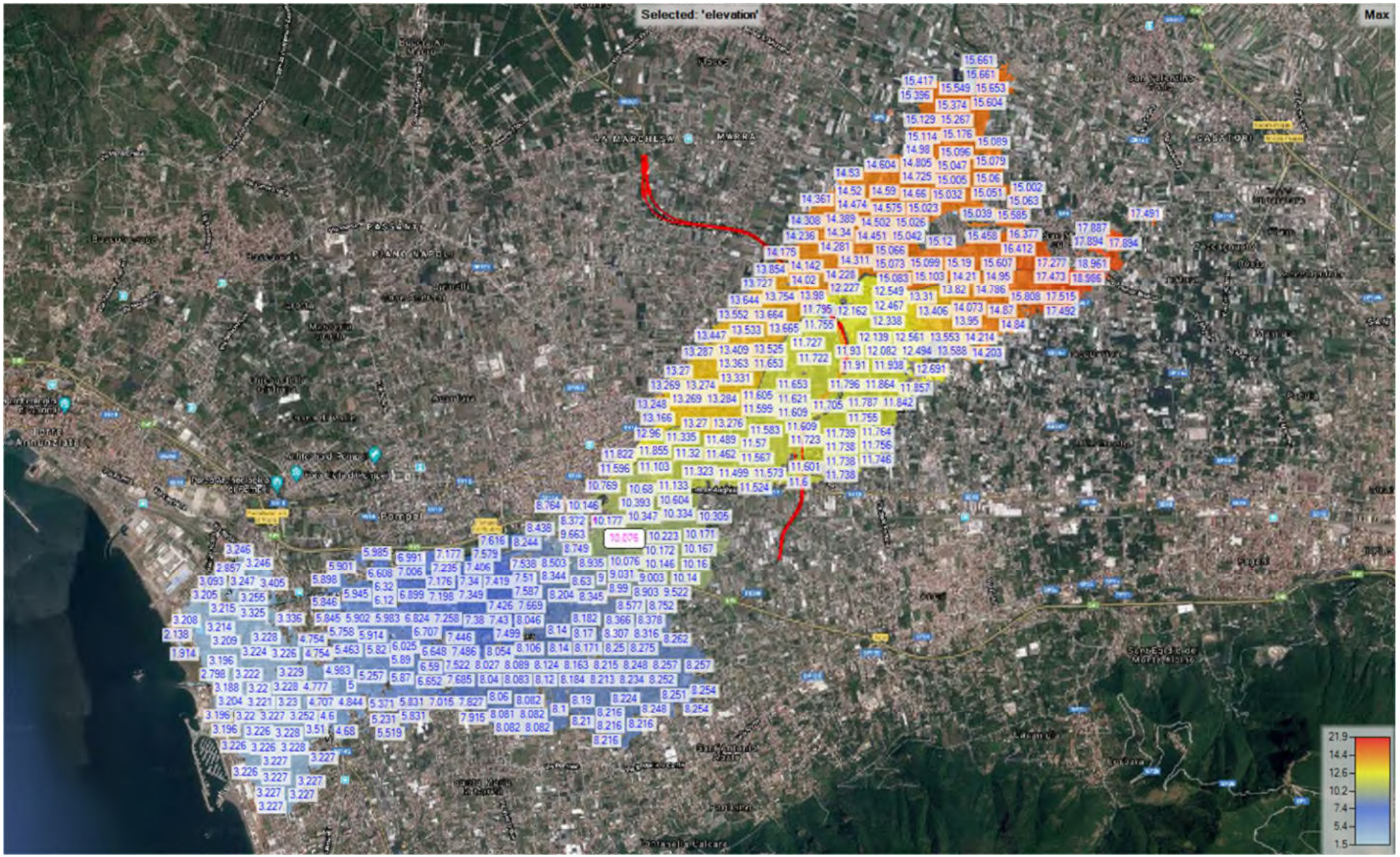

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 375
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 343
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 308
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 264
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 114
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

2.1.4. Configurazione di stato di fatto Evento TR 300 anni



Inviluppo dei massimi livelli idrici



Inviluppo dei massimi livelli idrici (visualizzazione numerica del livello massimo)

HEC-RAS Plan: SDF_REV1_TR300_VAPI Profile: Max WS

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	10158	Max WS	12.98	10.79	4.13	14.92	0.04	14.92	0.20	2.53
Sarno_valle	Sarno_valle	10156		Lat Struct							
Sarno_valle	Sarno_valle	10155		Lat Struct							
Sarno_valle	Sarno_valle	10050	Max WS	11.41	10.75	3.61	14.36	0.09	14.37	0.41	1.93
Sarno_valle	Sarno_valle	9965	Max WS	11.25	10.71	3.26	13.97	0.17	13.99	0.67	1.63
Sarno_valle	Sarno_valle	9887	Max WS	11.23	10.68	3.26	13.94	0.08	13.95	0.37	1.95
Sarno_valle	Sarno_valle	9824	Max WS	11.21	10.57	3.36	13.93	0.11	13.94	0.44	1.76
Sarno_valle	Sarno_valle	9751	Max WS	11.13	10.43	3.48	13.91	0.10	13.92	0.42	1.78
Sarno_valle	Sarno_valle	9629	Max WS	11.10	10.36	3.50	13.86	0.11	13.87	0.44	1.71
Sarno_valle	Sarno_valle	9518	Max WS	11.10	10.30	3.54	13.84	0.08	13.84	0.35	1.97
Sarno_valle	Sarno_valle	9435	Max WS	11.02	10.22	3.57	13.79	0.14	13.81	0.61	1.86
Sarno_valle	Sarno_valle	9396	Max WS	10.99	10.18	3.61	13.79	0.10	13.79	0.43	1.74
Sarno_valle	Sarno_valle	9363	Max WS	10.97	10.14	3.62	13.76	0.15	13.78	0.61	1.83
Sarno_valle	Sarno_valle	9318	Max WS	10.88	10.10	3.64	13.74	0.15	13.75	0.59	1.55
Sarno_valle	Sarno_valle	9130	Max WS	10.78	9.90	3.77	13.67	0.07	13.68	0.29	1.98
Sarno_valle	Sarno_valle	8979	Max WS	10.51	9.75	3.88	13.63	0.11	13.64	0.45	1.83
Sarno_valle	Sarno_valle	8789	Max WS	8.86	9.60	3.99	13.59	0.06	13.60	0.26	1.95
Sarno_valle	Sarno_valle	8648	Max WS	13.00	9.45	4.10	13.55	0.11	13.56	0.47	1.92
Sarno_valle	Sarno_valle	8574	Max WS	19.08	9.37	4.14	13.51	0.12	13.52	0.50	1.65
Sarno_valle	Sarno_valle	8311	Max WS	31.01	9.25	4.11	13.36	0.15	13.38	0.65	2.03
Sarno_valle	Sarno_valle	8123	Max WS	32.68	9.08	4.16	13.24	0.14	13.26	0.69	2.32
Sarno_valle	Sarno_valle	7939	Max WS	19.70	8.98	4.21	13.19	0.10	13.20	0.48	2.19
Sarno_valle	Sarno_valle	7710	Max WS	-14.14	8.80	4.38	13.18	0.06	13.18	-0.29	2.16
Sarno_valle	Sarno_valle	7544	Max WS	-19.33	8.63	4.57	13.20	0.08	13.20	-0.36	2.03
Sarno_valle	Sarno_valle	7437	Max WS	0.31	8.41	4.81	13.22	0.00	13.22	0.01	2.35
Sarno_valle	Sarno_valle	7410	Max WS	16.93	8.41	4.80	13.21	0.07	13.21	0.32	2.43
Sarno_valle	Sarno_valle	7388	Max WS	33.67	8.40	4.77	13.17	0.13	13.19	0.64	2.41
Sarno_valle	Sarno_valle	7351	Max WS	50.95	8.37	4.70	13.07	0.24	13.12	1.03	1.86
Sarno_valle	Sarno_valle	7310	Max WS	46.28	8.32	4.69	13.01	0.22	13.07	1.07	2.30
Sarno_valle	Sarno_valle	7220	Max WS	17.63	8.21	4.83	13.04	0.09	13.04	0.40	2.19
Sarno_valle	Sarno_valle	7143	Max WS	-4.51	8.20	4.84	13.04	0.02	13.04	-0.09	1.76
Sarno_valle	Sarno_valle	7121	Max WS	-5.03	8.20	4.84	13.04	0.02	13.04	-0.11	2.15

HEC-RAS Plan: SDF_REV1_TR300_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	7042	Max WS	-20.19	8.18	4.86	13.04	0.08	13.04	-0.37	2.48
Sarno_valle	Sarno_valle	6896	Max WS	-24.12	8.10	4.96	13.06	0.09	13.07	-0.42	2.48
Sarno_valle	Sarno_valle	6751	Max WS	11.80	8.03	5.06	13.09	0.04	13.09	0.22	2.46
Sarno_valle	Sarno_valle	6575	Max WS	50.56	7.96	4.94	12.90	0.19	12.94	0.86	2.07
Sarno_valle	Sarno_valle	6325	Max WS	69.04	7.86	4.35	12.21	0.31	12.32	1.46	2.32
Sarno_valle	Sarno_valle	6158	Max WS	35.90	7.79	4.22	12.01	0.20	12.05	0.92	2.24
Sarno_valle	Sarno_valle	6097	Max WS	38.41	7.34	4.61	11.95	0.19	11.99	0.95	2.54
Sarno_valle	Sarno_valle	6081	Max WS	56.35	7.26	4.47	11.73	0.33	11.87	1.63	2.42
Sarno_valle	Sarno_valle	6076	Max WS	57.55	7.25	4.52	11.77	0.29	11.86	1.36	2.25
Sarno_valle	Sarno_valle	6049	Max WS	40.13	7.21	4.59	11.80	0.22	11.86	1.01	2.13
Sarno_valle	Sarno_valle	5980	Max WS	60.37	7.09	4.22	11.31	0.49	11.55	2.16	2.00
Sarno_valle	Sarno_valle	5917	Max WS	58.36	6.98	4.23	11.21	0.31	11.32	1.47	2.30
Sarno_valle	Sarno_valle	5881	Max WS	121.01	5.85	5.14	10.99	0.26	11.08	1.37	2.74
Sarno_valle	Sarno_valle	5861	Max WS	165.46	5.84	4.83	10.67	0.37	10.87	1.98	2.95
Sarno_valle	Sarno_valle	5812	Max WS	67.63	5.79	4.97	10.76	0.18	10.81	1.07	3.03
Sarno_valle	Sarno_valle	5744	Max WS	79.72	5.71	5.03	10.74	0.27	10.86	1.54	3.24
Sarno_valle	Sarno_valle	5662	Max WS	57.97	5.59	5.06	10.65	0.27	10.74	1.33	2.52
Sarno_valle	Sarno_valle	5604	Max WS	50.12	5.54	4.63	10.17	0.54	10.48	2.48	2.14
Sarno_valle	Sarno_valle	5552	Max WS	46.96	5.35	4.72	10.07	0.26	10.16	1.30	2.56
Sarno_valle	Sarno_valle	5478	Max WS	54.66	5.26	4.73	9.99	0.16	10.02	0.80	2.43
Sarno_valle	Sarno_valle	5415	Max WS	44.94	4.41	5.68	10.09	0.08	10.10	0.53	2.77
Sarno_valle	Sarno_valle	5359	Max WS	126.34	4.40	5.61	10.01	0.24	10.10	1.37	3.09
Sarno_valle	Sarno_valle	5279	Max WS	71.42	4.31	5.64	9.95	0.14	9.99	0.81	3.20
Sarno_valle	Sarno_valle	5251	Max WS	84.93	4.29	5.44	9.73	0.35	9.87	1.64	2.23
Sarno_valle	Sarno_valle	5222	Max WS	76.94	4.21	5.45	9.66	0.21	9.73	1.20	3.49
Sarno_valle	Sarno_valle	5206	Max WS	74.95	4.14	5.51	9.65	0.19	9.70	0.99	2.92
Sarno_valle	Sarno_valle	5199	Max WS	73.97	4.13	5.49	9.62	0.24	9.69	1.21	2.50
Sarno_valle	Sarno_valle	5145	Max WS	64.72	4.11	5.52	9.63	0.15	9.67	0.84	3.38
Sarno_valle	Sarno_valle	5137	Max WS	64.54	4.10	5.52	9.62	0.21	9.68	1.07	2.59
Sarno_valle	Sarno_valle	5131	Max WS	70.06	4.09	5.42	9.51	0.38	9.65	1.66	1.92
Sarno_valle	Sarno_valle	5107	Max WS	33.13	4.07	5.43	9.50	0.08	9.52	0.45	2.94
Sarno_valle	Sarno_valle	5074	Max WS	47.94	4.05	5.53	9.58	0.14	9.61	0.73	2.69

HEC-RAS Plan: SDF_REV1_TR300_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	5013	Max WS	60.71	4.01	5.44	9.45	0.19	9.50	0.98	2.67
Sarno_valle	Sarno_valle	4982	Max WS	69.98	3.99	5.41	9.40	0.16	9.44	0.88	3.11
Sarno_valle	Sarno_valle	4928	Max WS	119.66	3.87	4.94	8.81	0.55	9.16	2.64	2.35
Sarno_valle	Sarno_valle	4906	Max WS	128.81	3.74	4.83	8.57	0.56	8.92	2.64	2.29
Sarno_valle	Sarno_valle	4785	Max WS	34.93	3.44	4.97	8.41	0.12	8.43	0.60	2.44
Sarno_valle	Sarno_valle	4706	Max WS	54.10	3.38	4.85	8.23	0.21	8.28	0.99	2.32
Sarno_valle	Sarno_valle	4661	Max WS	56.43	3.38	4.81	8.19	0.19	8.23	0.87	2.17
Sarno_valle	Sarno_valle	4625	Max WS	63.87	3.28	4.82	8.10	0.24	8.16	1.14	2.37
Sarno_valle	Sarno_valle	4603	Max WS	60.21	3.27	4.85	8.12	0.18	8.15	0.81	2.13
Sarno_valle	Sarno_valle	4568	Max WS	62.17	3.25	4.88	8.13	0.15	8.16	0.80	2.82
Sarno_valle	Sarno_valle	4531	Max WS	52.07	3.22	4.94	8.16	0.11	8.18	0.61	2.77
Sarno_valle	Sarno_valle	4463	Max WS	59.64	3.20	4.86	8.06	0.19	8.10	0.82	1.79
Sarno_valle	Sarno_valle	4351	Max WS	61.89	3.18	4.53	7.71	0.34	7.82	1.48	1.94
Sarno_valle	Sarno_valle	4284	Max WS	47.43	3.06	4.59	7.65	0.20	7.68	0.83	1.71
Sarno_valle	Sarno_valle	4061	Max WS	41.35	2.68	4.77	7.45	0.18	7.48	0.79	2.04
Sarno_valle	Sarno_valle	3919	Max WS	39.20	2.48	4.84	7.32	0.18	7.36	0.85	2.37
Sarno_valle	Sarno_valle	3863	Max WS	45.53	2.38	4.89	7.27	0.14	7.30	0.73	2.60
Sarno_valle	Sarno_valle	3844	Max WS	44.81	2.37	4.90	7.27	0.12	7.29	0.63	2.70
Sarno_valle	Sarno_valle	3800	Max WS	40.02	2.24	5.05	7.29	0.10	7.30	0.55	3.21
Sarno_valle	Sarno_valle	3685	Max WS	31.11	2.10	5.12	7.22	0.11	7.24	0.55	2.58
Sarno_valle	Sarno_valle	3499	Max WS	40.25	1.84	5.32	7.16	0.12	7.18	0.61	2.78
Sarno_valle	Sarno_valle	3144	Max WS	46.16	1.41	5.52	6.93	0.15	6.96	0.75	2.64
Sarno_valle	Sarno_valle	3039	Max WS	66.06	1.34	5.52	6.86	0.16	6.90	0.89	3.36
Sarno_valle	Sarno_valle	3015	Max WS	64.32	1.32	5.45	6.77	0.27	6.87	1.34	2.55
Sarno_valle	Sarno_valle	2928	Max WS	54.19	1.27	5.42	6.69	0.20	6.74	1.01	2.61
Sarno_valle	Sarno_valle	2827	Max WS	51.95	1.14	5.24	6.38	0.36	6.51	1.60	2.03
Sarno_valle	Sarno_valle	2768	Max WS	51.75	1.00	5.31	6.31	0.21	6.36	0.99	2.34
Sarno_valle	Sarno_valle	2752	Max WS	51.56	0.96	5.26	6.22	0.33	6.32	1.38	1.74
Sarno_valle	Sarno_valle	2705	Max WS	43.86	0.88	5.29	6.17	0.20	6.21	0.91	2.03
Sarno_valle	Sarno_valle	2514	Max WS	50.60	0.70	5.21	5.91	0.18	5.95	0.86	2.36
Sarno_valle	Sarno_valle	2387	Max WS	16.91	0.52	5.40	5.92	0.05	5.93	0.26	3.30
Sarno_valle	Sarno_valle	2285	Max WS	57.51	0.40	5.32	5.72	0.25	5.78	1.10	2.02

HEC-RAS Plan: SDF_REV1_TR300_VAPI Profile: Max WS (Continued)

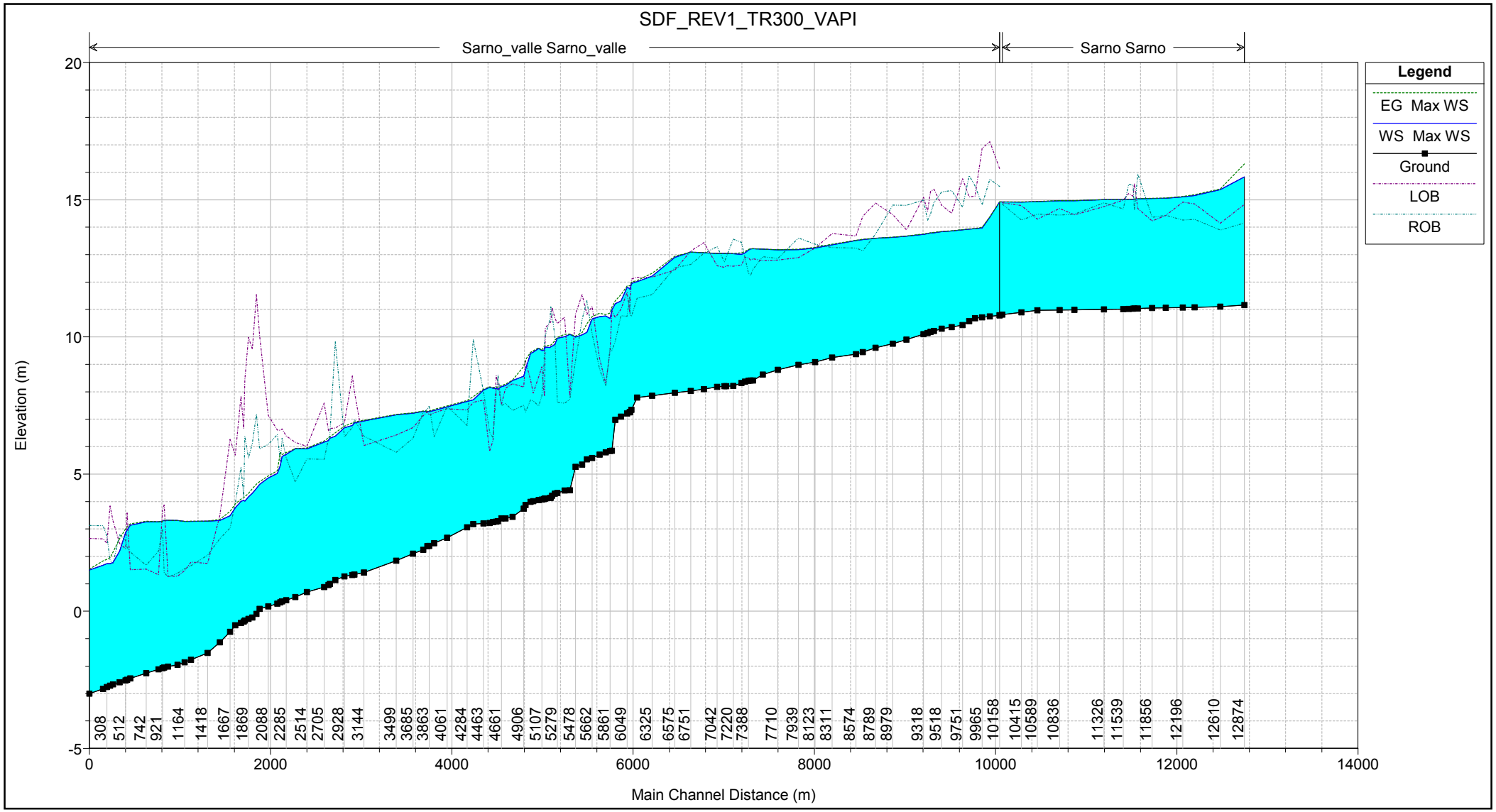
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	2240	Max WS	58.44	0.36	5.28	5.64	0.23	5.71	1.18	2.75
Sarno_valle	Sarno_valle	2220	Max WS	58.44	0.33	4.98	5.31	0.73	5.78	3.04	1.74
Sarno_valle	Sarno_valle	2189	Max WS	58.43	0.28	4.74	5.02	0.28	5.12	1.38	2.49
Sarno_valle	Sarno_valle	2088	Max WS	58.42	0.18	4.68	4.86	0.25	4.93	1.25	2.58
Sarno_valle	Sarno_valle	1993	Max WS	58.42	0.09	4.54	4.63	0.30	4.73	1.38	2.13
Sarno_valle	Sarno_valle	1957	Max WS	58.41	-0.10	4.57	4.47	0.36	4.63	1.75	2.42
Sarno_valle	Sarno_valle	1913	Max WS	58.41	-0.23	4.53	4.30	0.41	4.47	1.78	1.91
Sarno_valle	Sarno_valle	1869	Max WS	58.41	-0.28	4.45	4.17	0.33	4.30	1.57	2.30
Sarno_valle	Sarno_valle	1829	Max WS	58.21	-0.34	4.36	4.02	0.36	4.18	1.78	2.51
Sarno_valle	Sarno_valle	1816	Max WS	58.20	-0.38	4.43	4.05	0.27	4.14	1.36	2.66
Sarno_valle	Sarno_valle	1787	Max WS	58.08	-0.43	4.43	4.00	0.25	4.09	1.31	2.79
Sarno_valle	Sarno_valle	1724	Max WS	57.71	-0.51	4.28	3.77	0.37	3.92	1.67	2.02
Sarno_valle	Sarno_valle	1667	Max WS	49.25	-0.75	4.24	3.49	0.37	3.64	1.74	2.20
Sarno_valle	Sarno_valle	1553	Max WS	34.36	-1.13	4.44	3.31	0.21	3.35	0.87	1.67
Sarno_valle	Sarno_valle	1418	Max WS	8.65	-1.52	4.80	3.28	0.03	3.28	0.14	2.34
Sarno_valle	Sarno_valle	1235	Max WS	15.43	-1.77	5.05	3.28	0.05	3.28	0.25	2.88
Sarno_valle	Sarno_valle	1164	Max WS	10.07	-1.86	5.13	3.27	0.05	3.28	0.24	2.58
Sarno_valle	Sarno_valle	1088	Max WS	3.24	-1.95	5.26	3.31	0.01	3.31	0.05	2.62
Sarno_valle	Sarno_valle	981	Max WS	-0.83	-2.02	5.33	3.31	0.00	3.31	-0.01	3.33
Sarno_valle	Sarno_valle	940	Max WS	23.90	-2.05	5.36	3.31	0.09	3.33	0.47	2.81
Sarno_valle	Sarno_valle	921	Max WS	6.34	-2.08	5.36	3.28	0.03	3.28	0.14	2.39
Sarno_valle	Sarno_valle	877	Max WS	-3.63	-2.12	5.38	3.26	0.01	3.26	-0.04	2.99
Sarno_valle	Sarno_valle	742	Max WS	-36.63	-2.26	5.52	3.26	0.13	3.29	-0.71	3.01
Sarno_valle	Sarno_valle	564	Max WS	47.35	-2.45	5.58	3.13	0.21	3.18	0.98	2.28
Sarno_valle	Sarno_valle	531	Max WS	83.60	-2.50	5.46	2.96	0.29	3.07	1.46	2.65
Sarno_valle	Sarno_valle	512	Max WS	91.20	-2.52	5.38	2.86	0.33	3.00	1.63	2.49
Sarno_valle	Sarno_valle	447	Max WS	129.53	-2.59	4.78	2.19	0.48	2.65	3.00	4.05
Sarno_valle	Sarno_valle	375	Max WS	157.09	-2.66	4.44	1.78	0.55	2.16	2.74	2.52
Sarno_valle	Sarno_valle	343	Max WS	180.72	-2.71	4.45	1.74	0.38	1.95	2.04	2.94
Sarno_valle	Sarno_valle	308	Max WS	181.83	-2.76	4.50	1.74	0.29	1.89	1.73	3.74
Sarno_valle	Sarno_valle	264	Max WS	181.79	-2.83	4.51	1.68	0.30	1.84	1.77	3.57
Sarno_valle	Sarno_valle	114	Max WS	-91.03	-3.00	4.50	1.50	0.15	1.54	-0.86	3.18

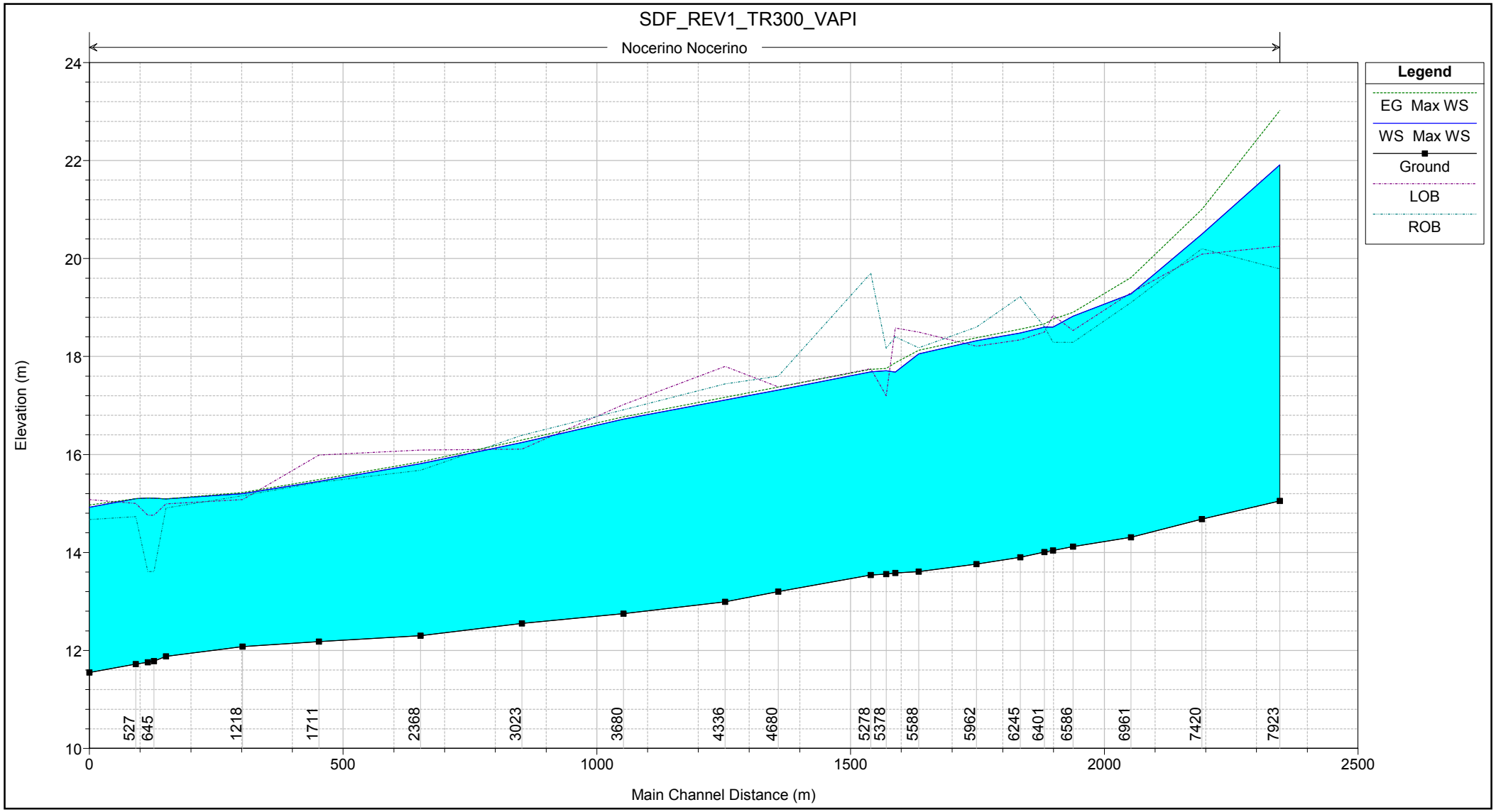
HEC-RAS Plan: SDF_REV1_TR300_VAPI Profile: Max WS (Continued)

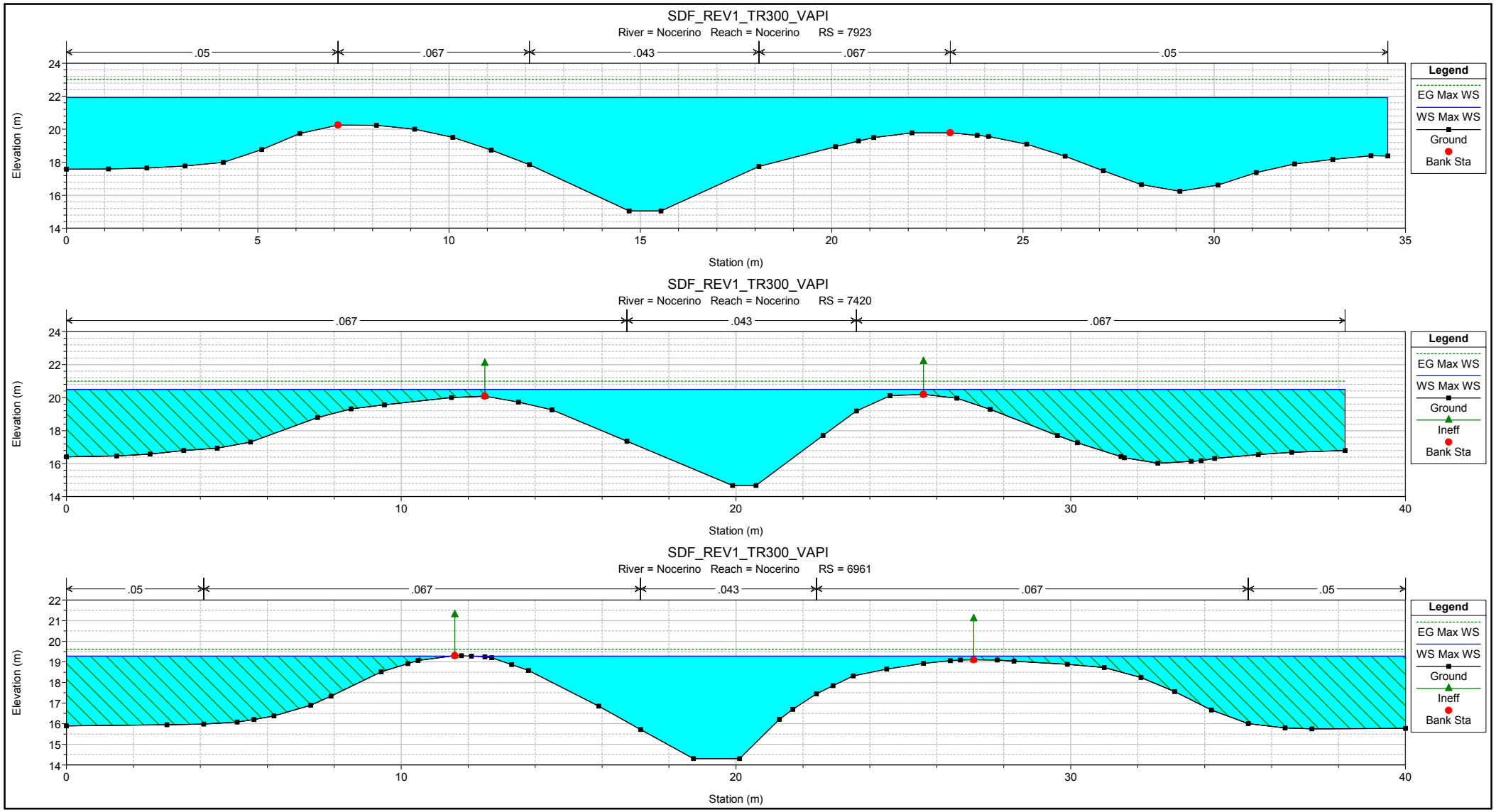
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno	Sarno	12874	Max WS	334.55	11.16	4.67	15.83	0.63	16.31	3.35	2.20
Sarno	Sarno	12873		Lat Struct							
Sarno	Sarno	12872		Lat Struct							
Sarno	Sarno	12610	Max WS	42.92	11.10	4.27	15.37	0.15	15.40	0.71	2.42
Sarno	Sarno	12325	Max WS	40.52	11.08	4.08	15.16	0.15	15.18	0.72	2.31
Sarno	Sarno	12196	Max WS	50.50	11.07	4.03	15.10	0.13	15.12	0.68	2.74
Sarno	Sarno	12006	Max WS	39.29	11.06	3.99	15.05	0.10	15.06	0.48	2.40
Sarno	Sarno	11856	Max WS	17.84	11.05	4.00	15.05	0.07	15.05	0.32	2.14
Sarno	Sarno	11698	Max WS	21.59	11.04	3.99	15.03	0.07	15.03	0.33	2.46
Sarno	Sarno	11660	Max WS	21.45	11.03	3.98	15.02	0.10	15.03	0.41	1.82
Sarno	Sarno	11647	Max WS	20.73	11.02	3.99	15.01	0.11	15.02	0.46	1.77
Sarno	Sarno	11598	Max WS	20.68	11.02	3.99	15.01	0.06	15.01	0.33	2.74
Sarno	Sarno	11539	Max WS	18.54	11.01	4.00	15.01	0.05	15.01	0.25	2.17
Sarno	Sarno	11326	Max WS	8.26	11.00	4.00	15.00	0.02	15.00	0.11	2.23
Sarno	Sarno	11000	Max WS	32.71	10.99	3.98	14.97	0.07	14.97	0.37	2.50
Sarno	Sarno	10836	Max WS	14.88	10.98	3.99	14.97	0.05	14.97	0.22	2.28
Sarno	Sarno	10589	Max WS	36.39	10.97	3.96	14.93	0.08	14.94	0.40	2.53
Sarno	Sarno	10415	Max WS	22.53	10.90	4.02	14.92	0.09	14.92	0.38	1.68
Sarno	Sarno	10205	Max WS	-5.67	10.81	4.11	14.92	0.02	14.92	-0.10	1.81

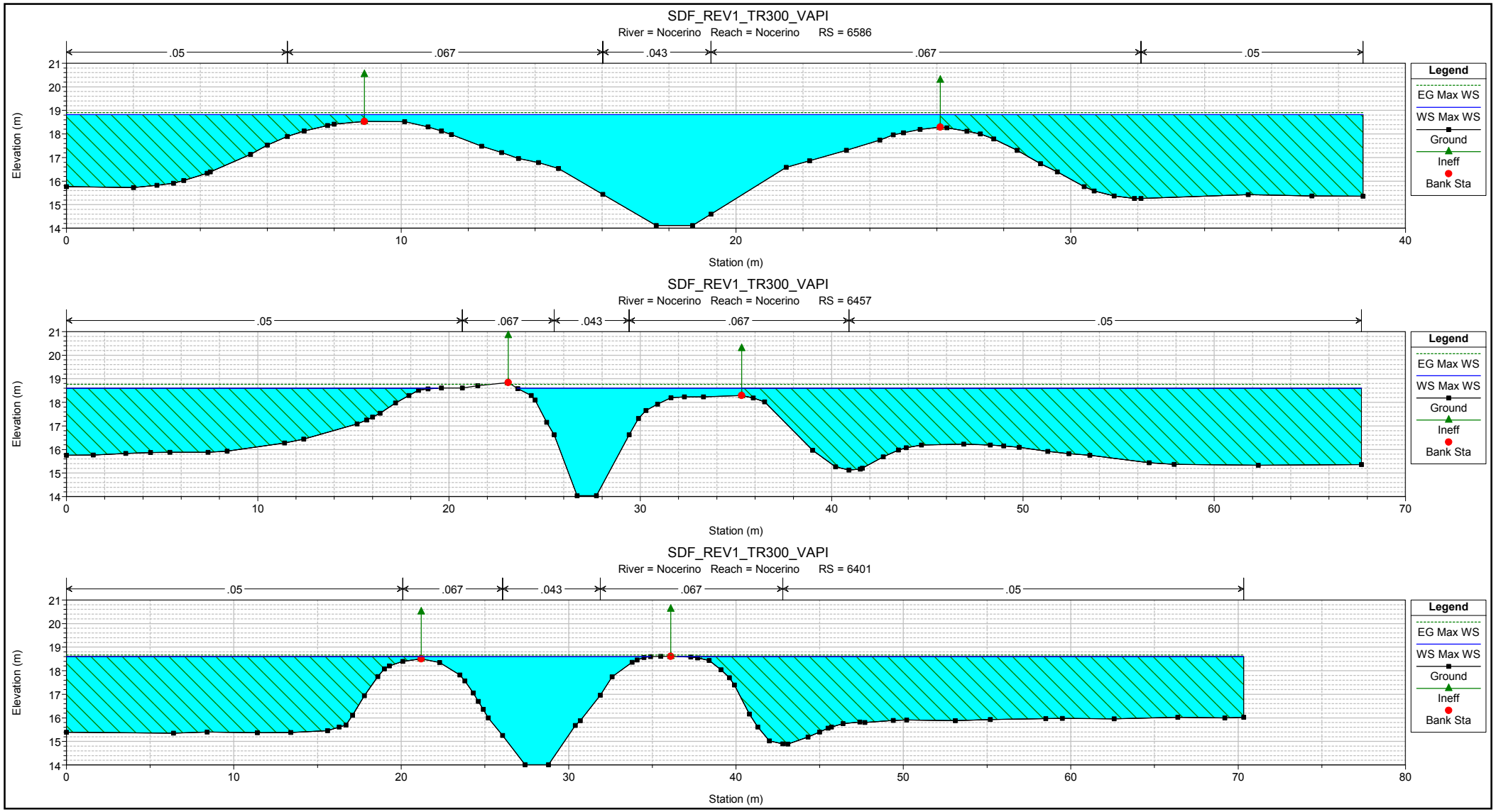
HEC-RAS Plan: SDF_REV1_TR300_VAPI River: Nocerino Reach: Nocerino Profile: Max WS

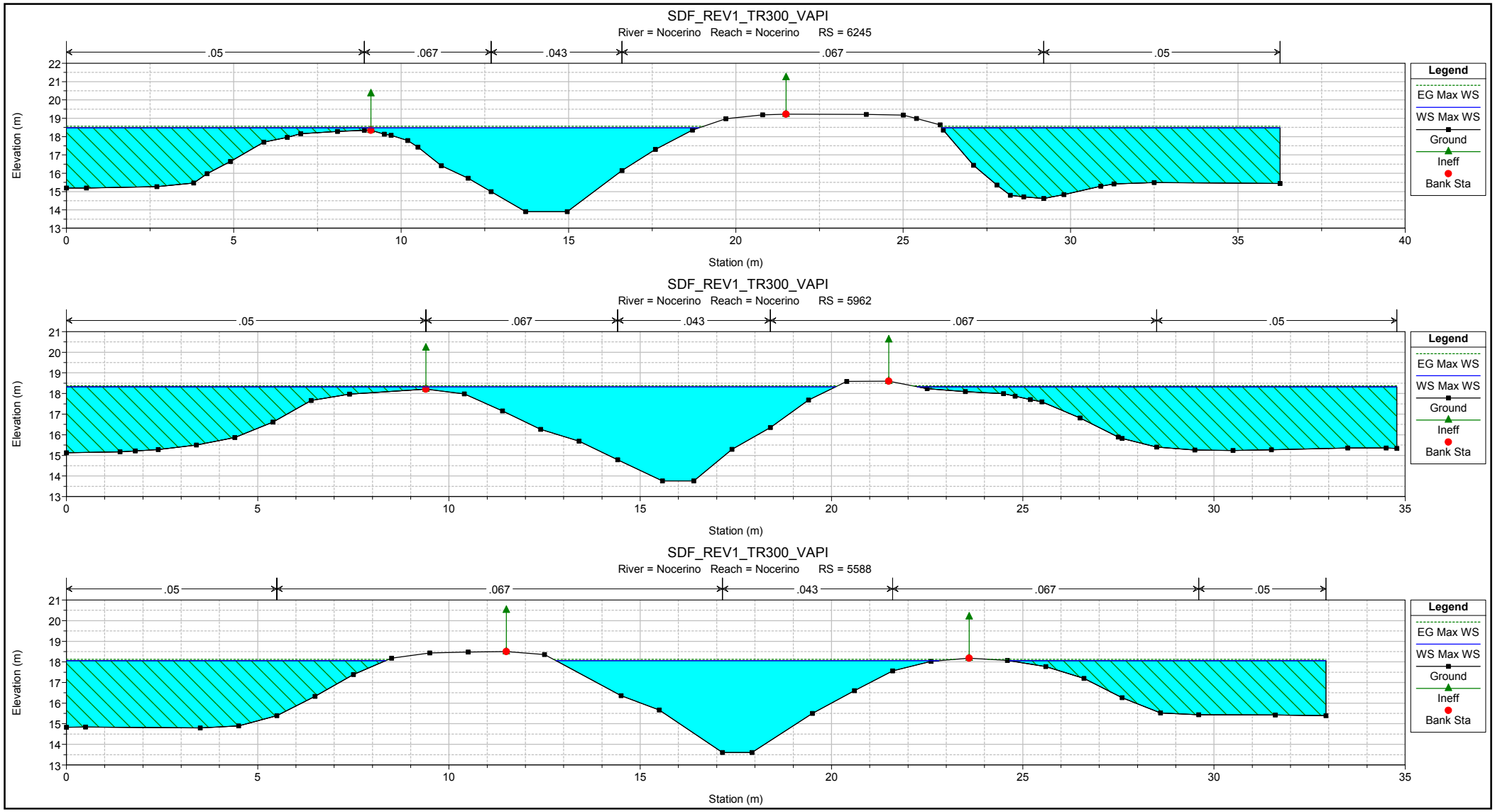
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
			(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Nocerino	7923	Max WS	609.34	15.05	6.86	21.91	0.76	23.02	4.61	3.81
Nocerino	7922		Lat Struct							
Nocerino	7921		Lat Struct							
Nocerino	7420	Max WS	114.74	14.68	5.82	20.50	0.60	21.00	3.13	2.79
Nocerino	6961	Max WS	81.55	14.31	4.97	19.28	0.56	19.61	2.57	2.12
Nocerino	6586	Max WS	47.09	14.12	4.70	18.82	0.27	18.90	1.26	2.17
Nocerino	6457	Max WS	33.82	14.04	4.56	18.60	0.45	18.76	1.78	1.62
Nocerino	6401	Max WS	32.43	14.01	4.59	18.60	0.25	18.66	1.12	2.12
Nocerino	6245	Max WS	30.32	13.90	4.58	18.48	0.26	18.56	1.27	2.43
Nocerino	5962	Max WS	26.22	13.76	4.56	18.32	0.23	18.38	1.07	2.28
Nocerino	5588	Max WS	25.82	13.61	4.44	18.05	0.26	18.13	1.20	2.15
Nocerino	5437	Max WS	25.84	13.58	4.10	17.68	0.45	17.87	1.92	1.90
Nocerino	5378	Max WS	24.76	13.56	4.15	17.71	0.21	17.76	0.97	2.24
Nocerino	5278	Max WS	20.21	13.54	4.15	17.69	0.22	17.74	0.97	2.06
Nocerino	4680	Max WS	20.37	13.20	4.12	17.32	0.25	17.38	1.08	1.85
Nocerino	4336	Max WS	20.06	12.99	4.12	17.11	0.22	17.17	1.03	2.33
Nocerino	3680	Max WS	19.86	12.75	3.97	16.72	0.23	16.77	0.96	1.73
Nocerino	3023	Max WS	18.80	12.55	3.69	16.24	0.25	16.29	0.99	1.56
Nocerino	2368	Max WS	16.02	12.30	3.51	15.81	0.23	15.85	0.88	1.52
Nocerino	1711	Max WS	13.19	12.18	3.27	15.45	0.24	15.49	0.84	1.30
Nocerino	1218	Max WS	11.99	12.08	3.12	15.20	0.20	15.22	0.69	1.21
Nocerino	723	Max WS	3.07	11.88	3.29	15.09	0.04	15.09	0.15	1.44
Nocerino	645	Max WS	3.70	11.78	3.33	15.11	0.02	15.11	0.11	2.05
Nocerino	605	Max WS	1.65	11.76	3.35	15.11	0.01	15.11	0.05	2.11
Nocerino	527	Max WS	3.09	11.72	3.38	15.10	0.05	15.10	0.16	1.25
Nocerino	227	Max WS	18.65	11.55	3.37	14.92	0.25	14.97	0.94	1.48

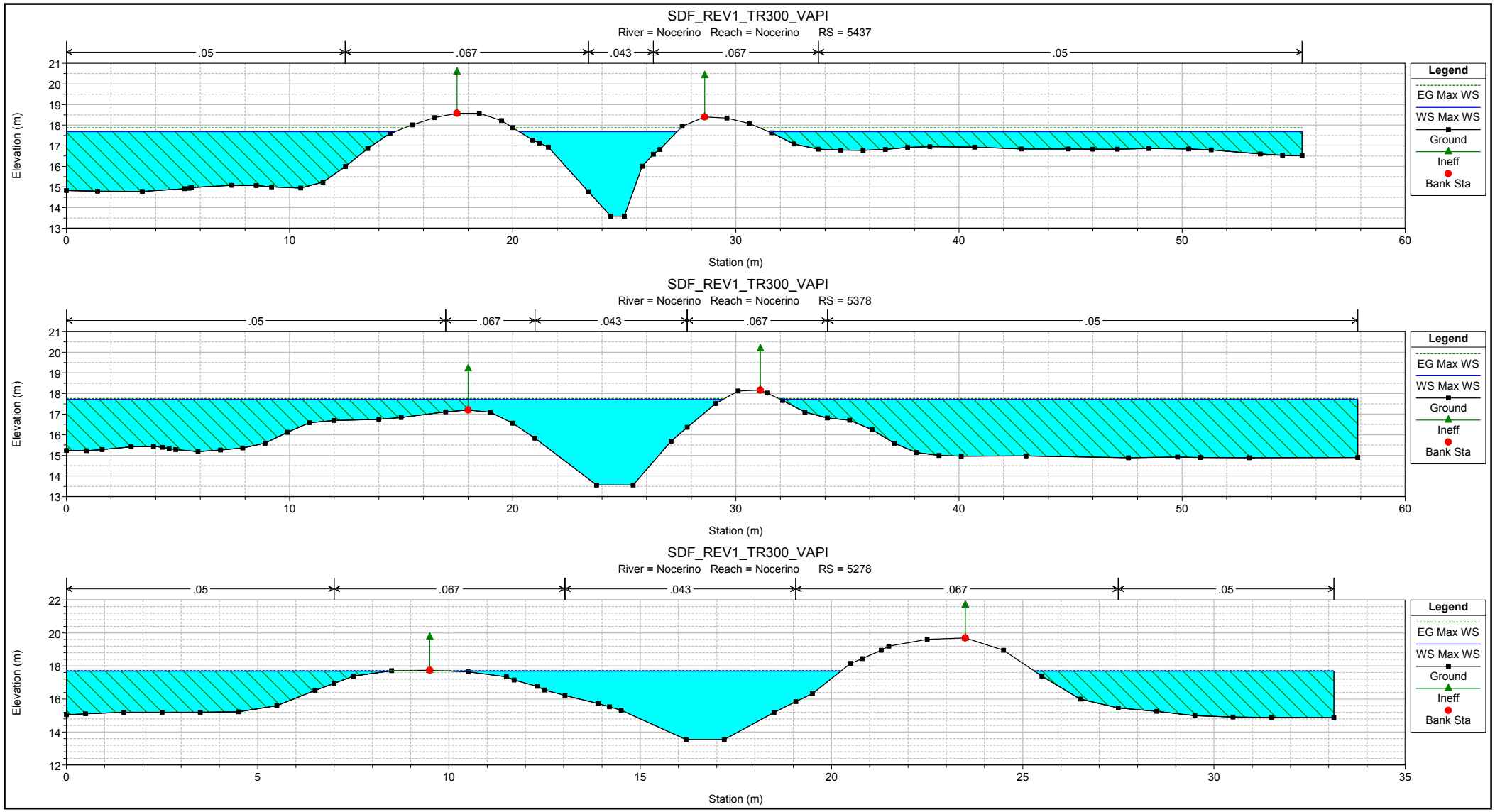

SDF_REV1_TR300_VAPI
Sarno_valle Sarno_valle
Sarno Sarno
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
20
15
10
5
0
-5
0
2000
4000
6000
8000
10000
12000
14000
308
512
742
921
1164
1418
1667
1869
2088
2285
2514
2705
2928
3144
3499
3685
3863
4061
4284
4463
4661
4906
5107
5279
5478
5662
5861
6049
6325
6575
6751
7042
7220
7388
7710
7939
8123
8311
8574
8789
8979
9318
9518
9751
9965
10158
10415
10589
10836
11326
11539
11856
12196
12610
12874

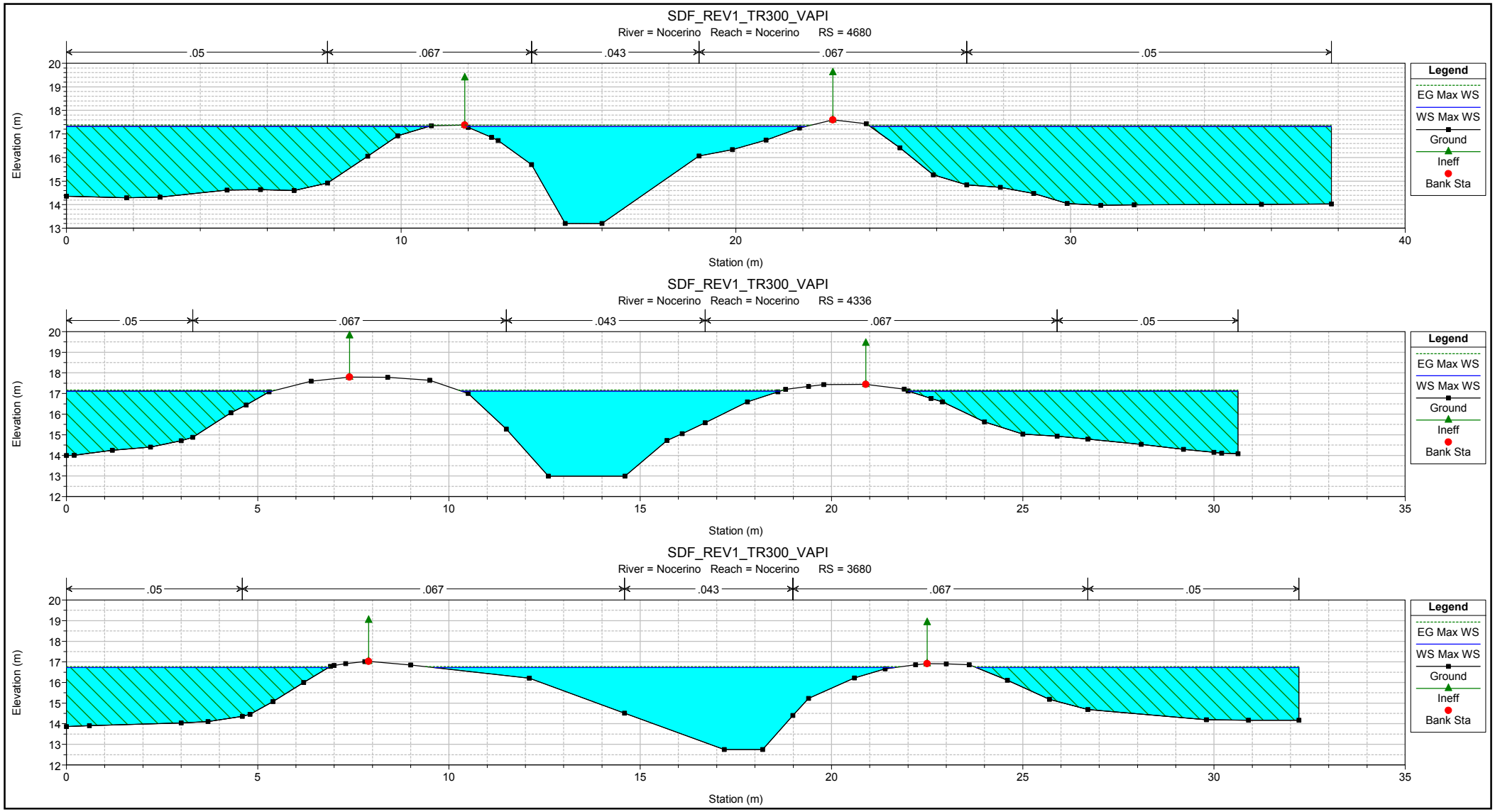

SDF_REV1_TR300_VAPI
Nocerino Nocerino
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
24
22
20
18
16
14
12
10
0
500
1000
1500
2000
2500
527
645
1218
1711
2368
3023
3680
4336
4680
5278
5378
5588
5962
6245
6401
6586
6961
7420
7923

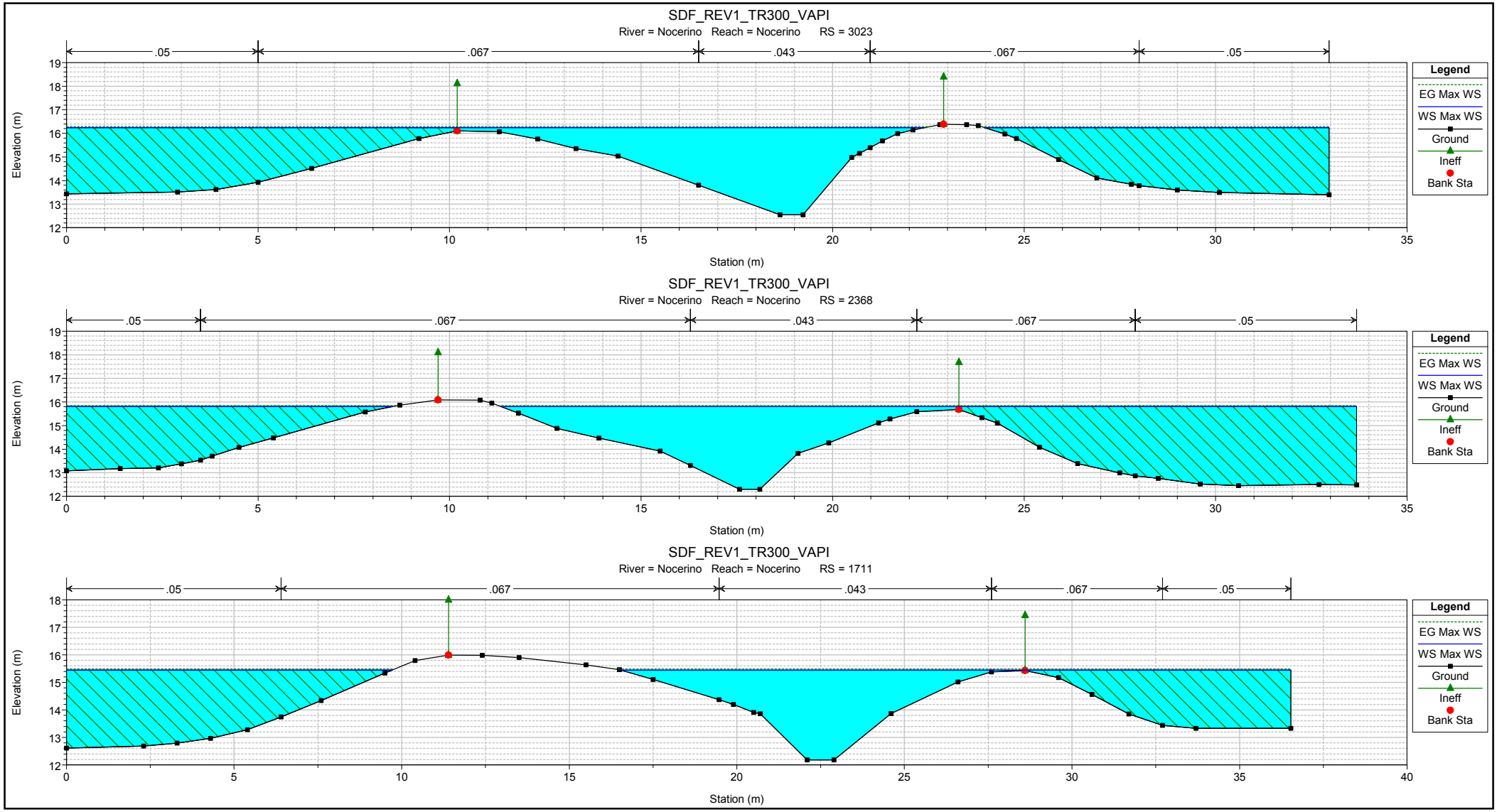

SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 7923
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 7420
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6961
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

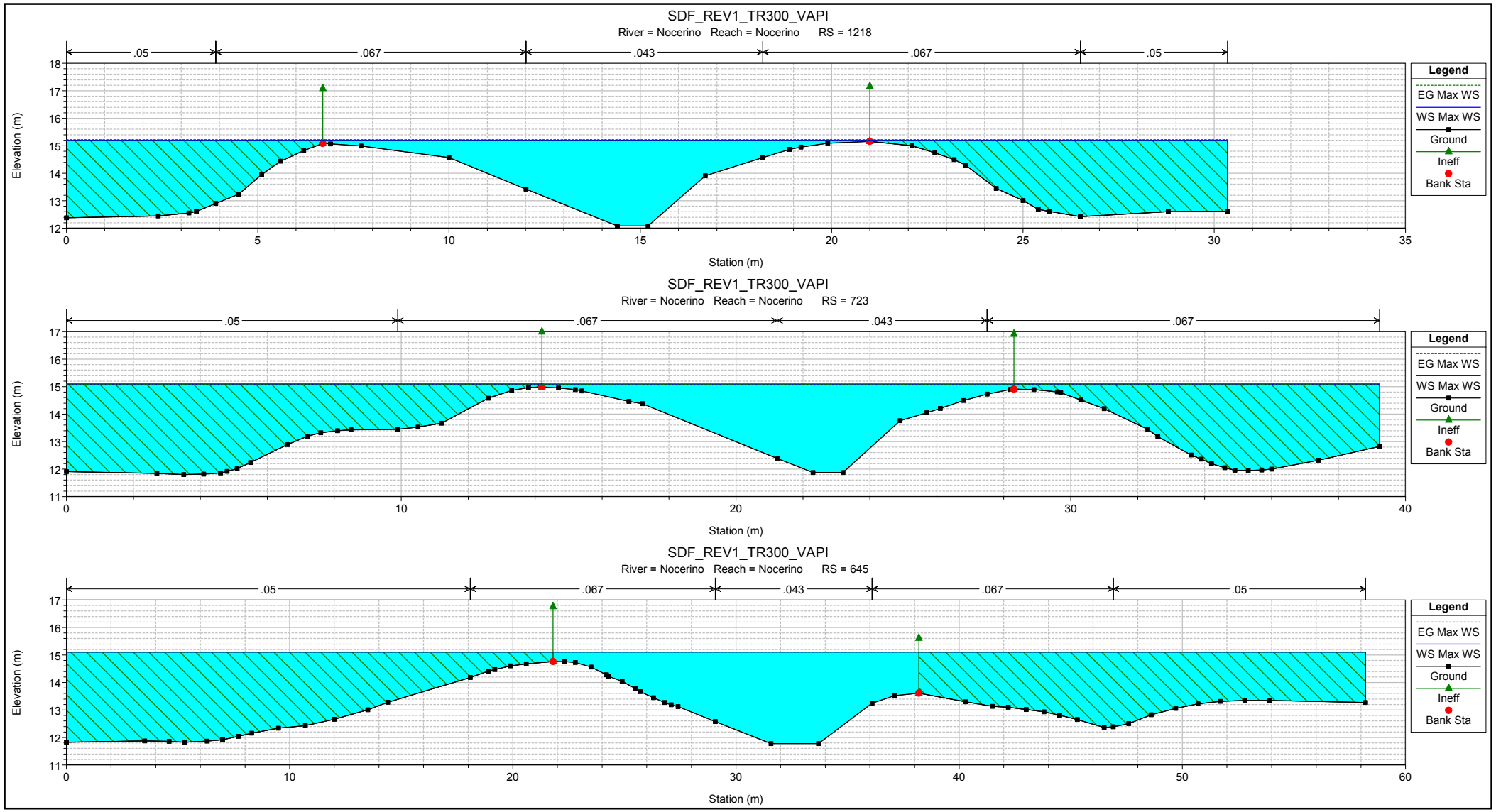

SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6586
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6457
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6401
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

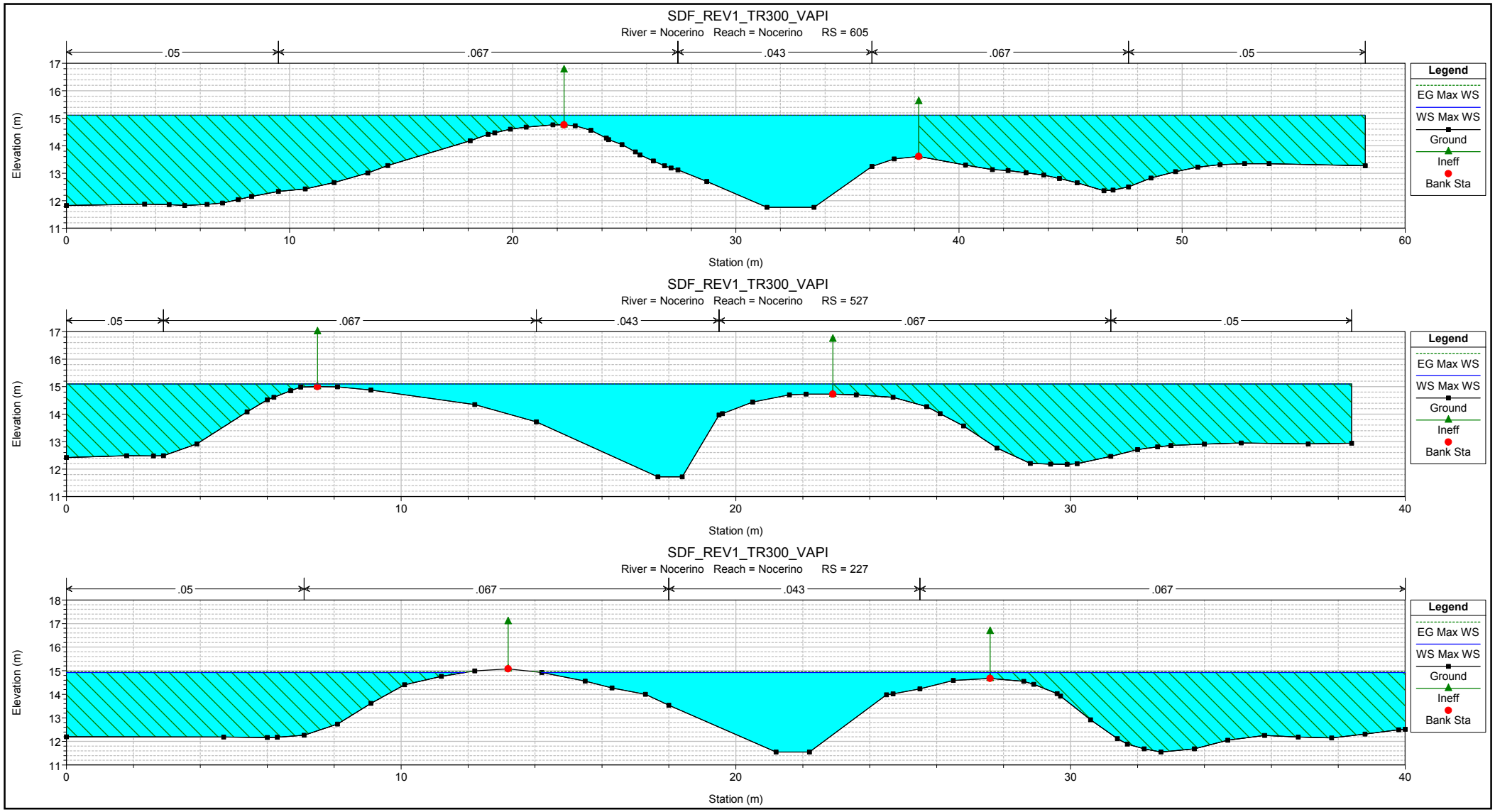

SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6245
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5962
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5588
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

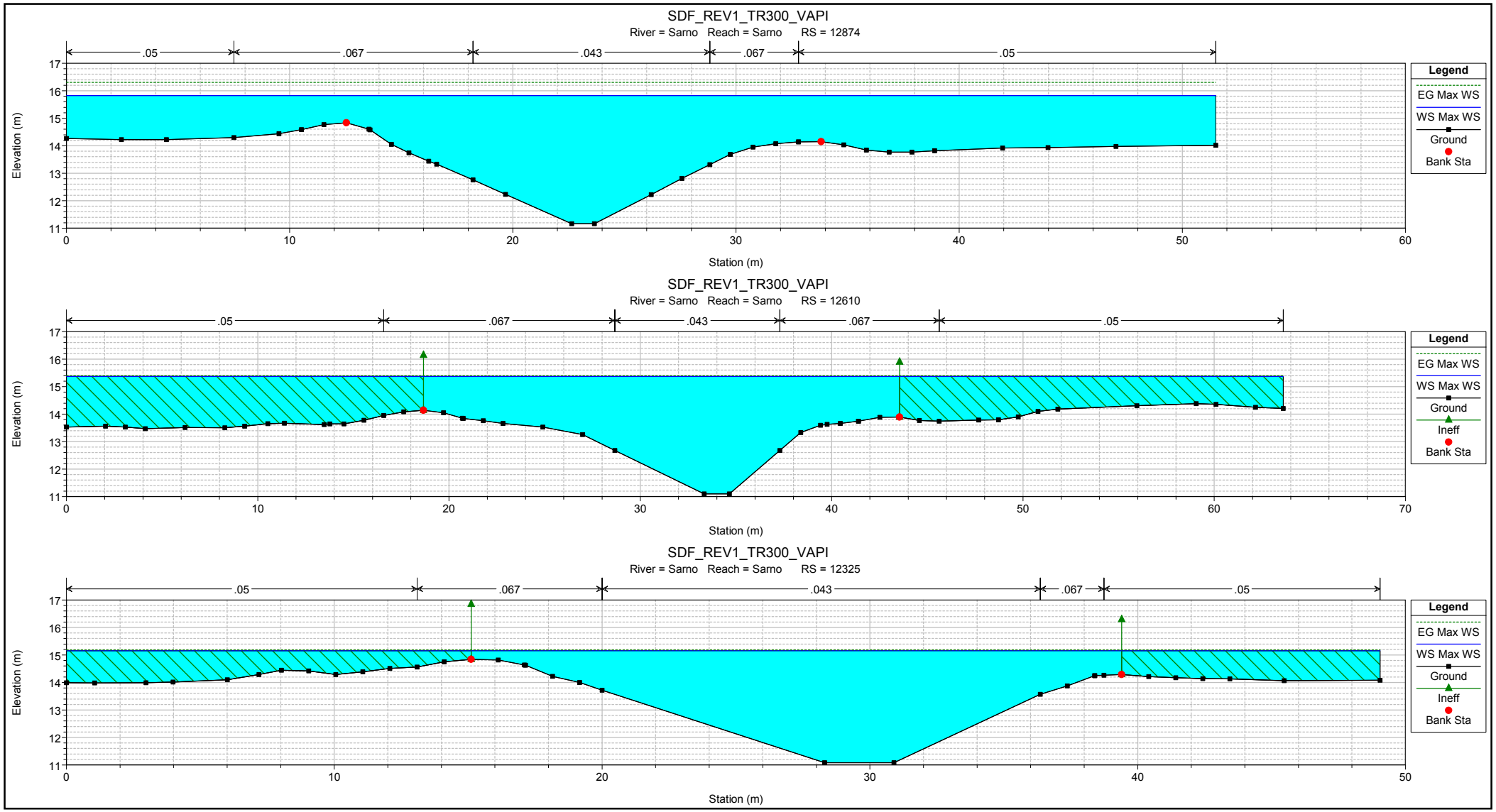

SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5378
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5278
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

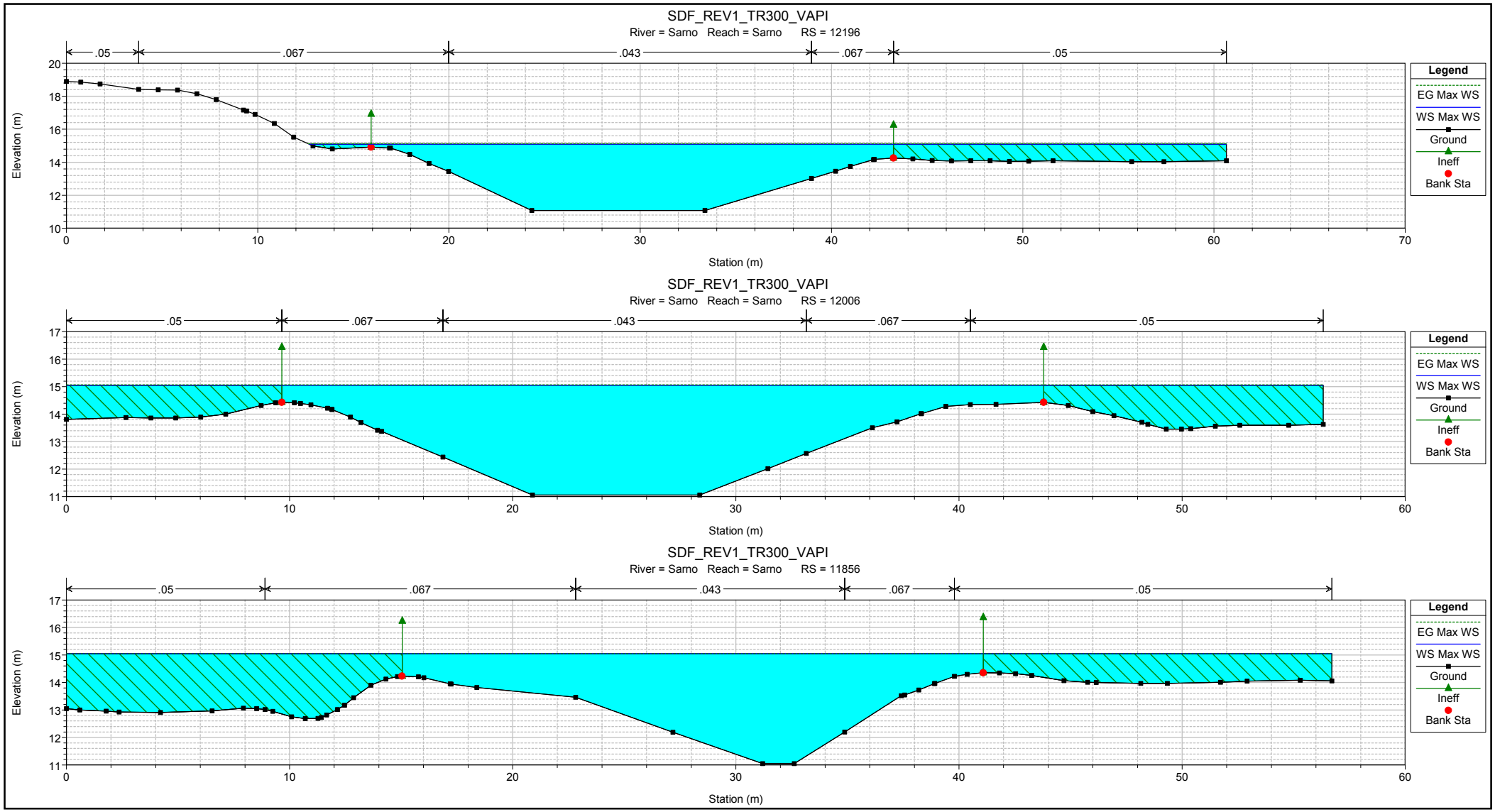

SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 4680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 4336
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 3680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

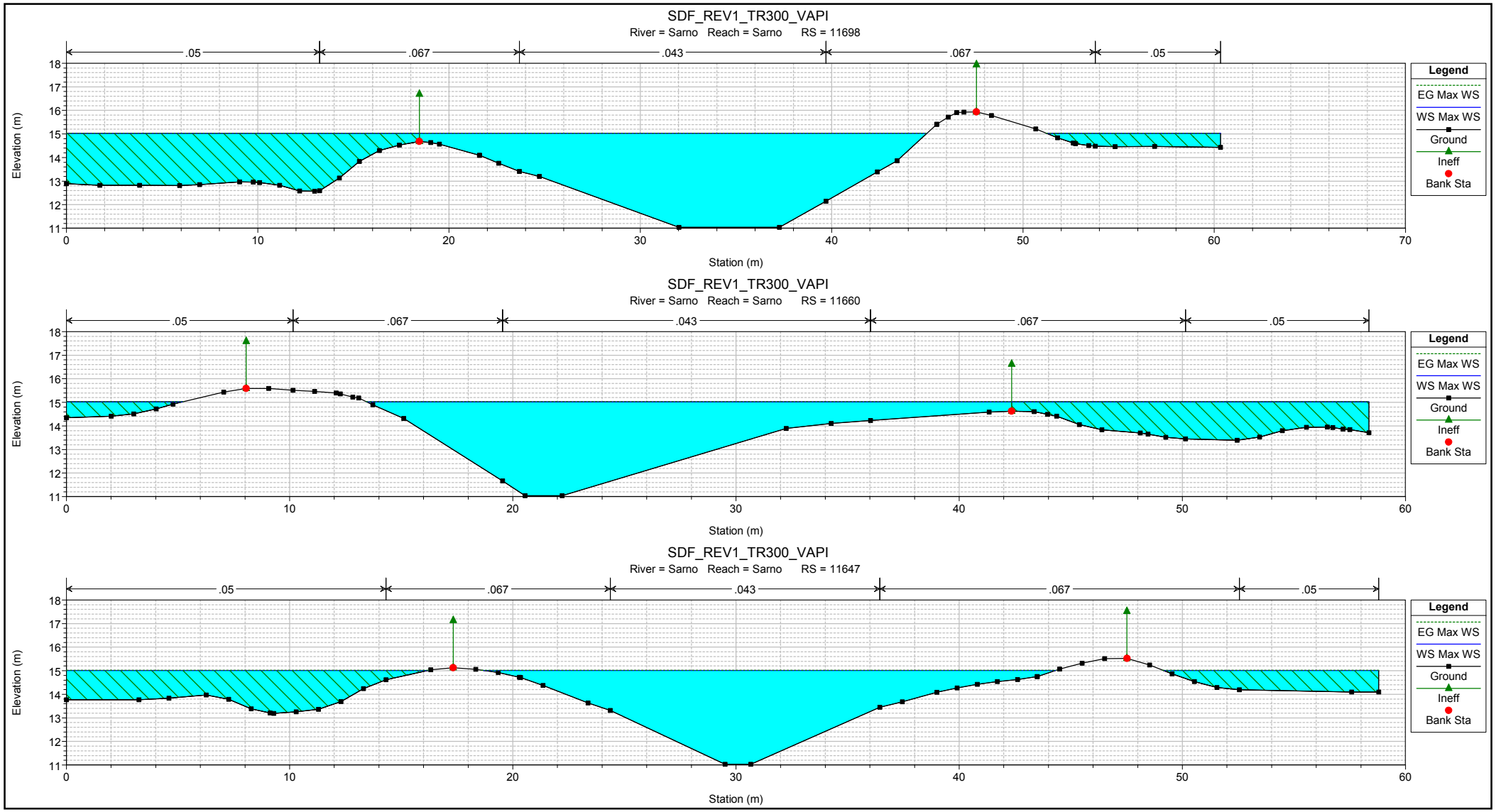

SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 3023
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 2368
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 1711
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

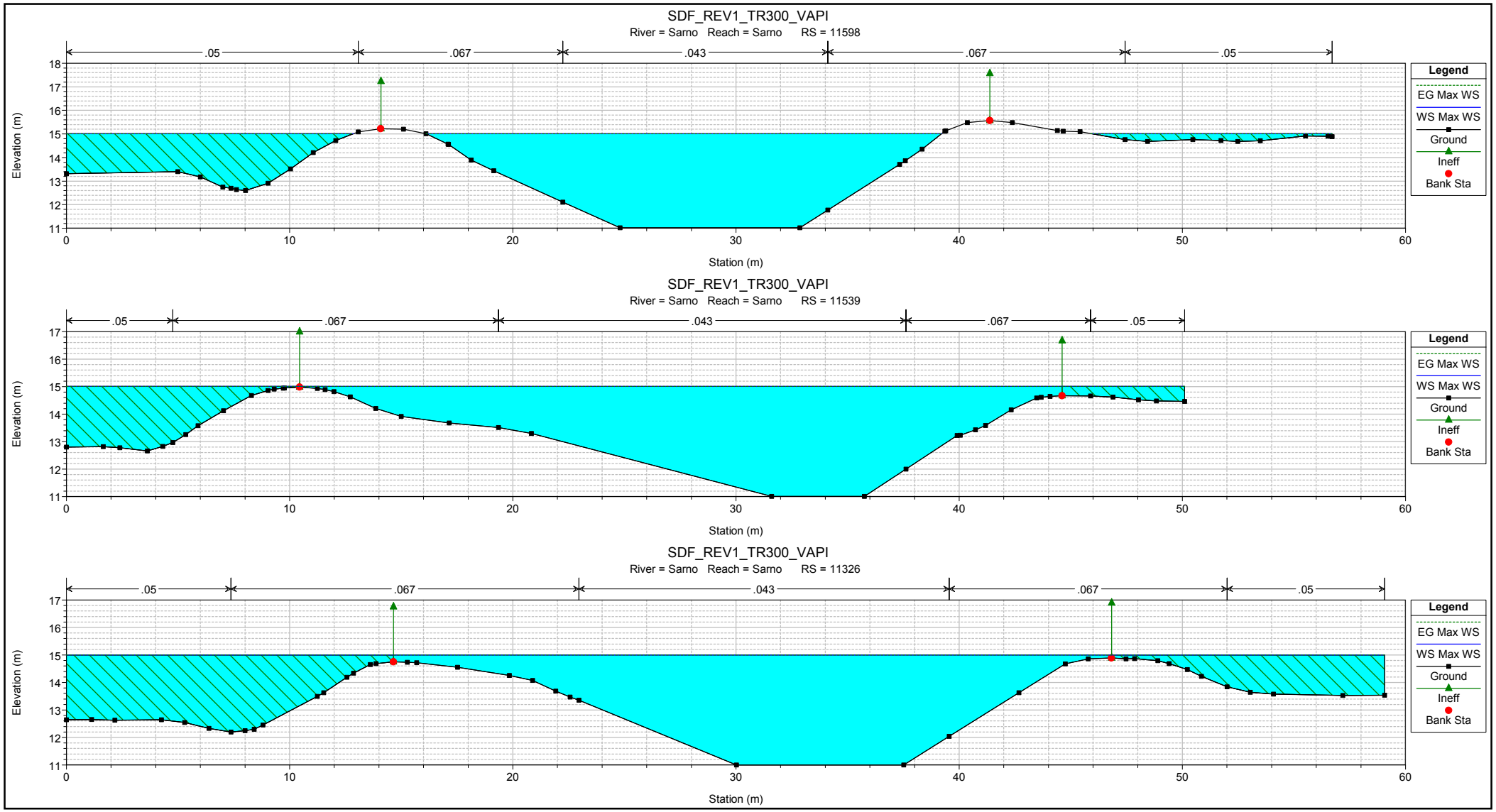

SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 1218
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 723
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 645
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

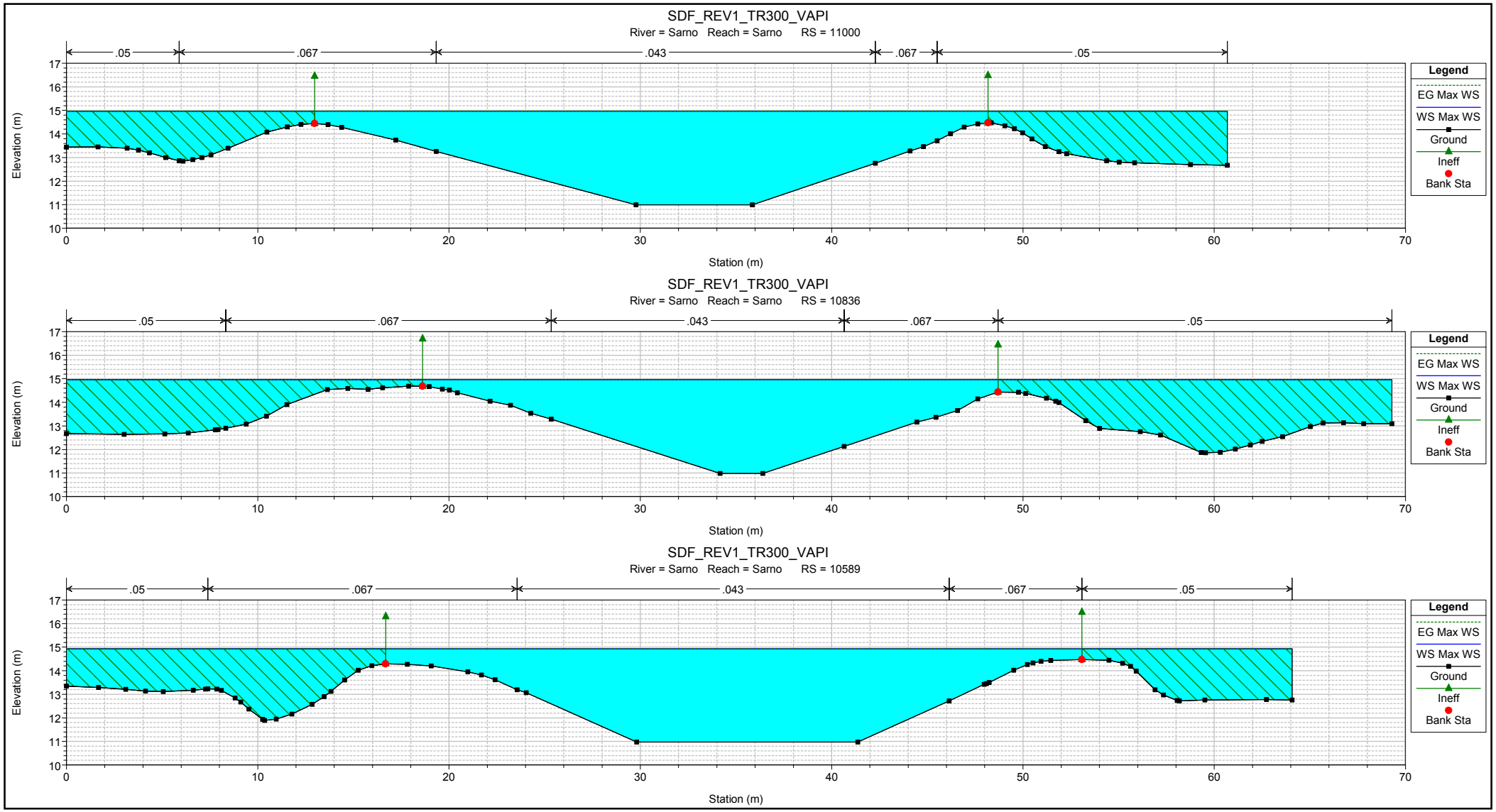

SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 605
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 527
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 227
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

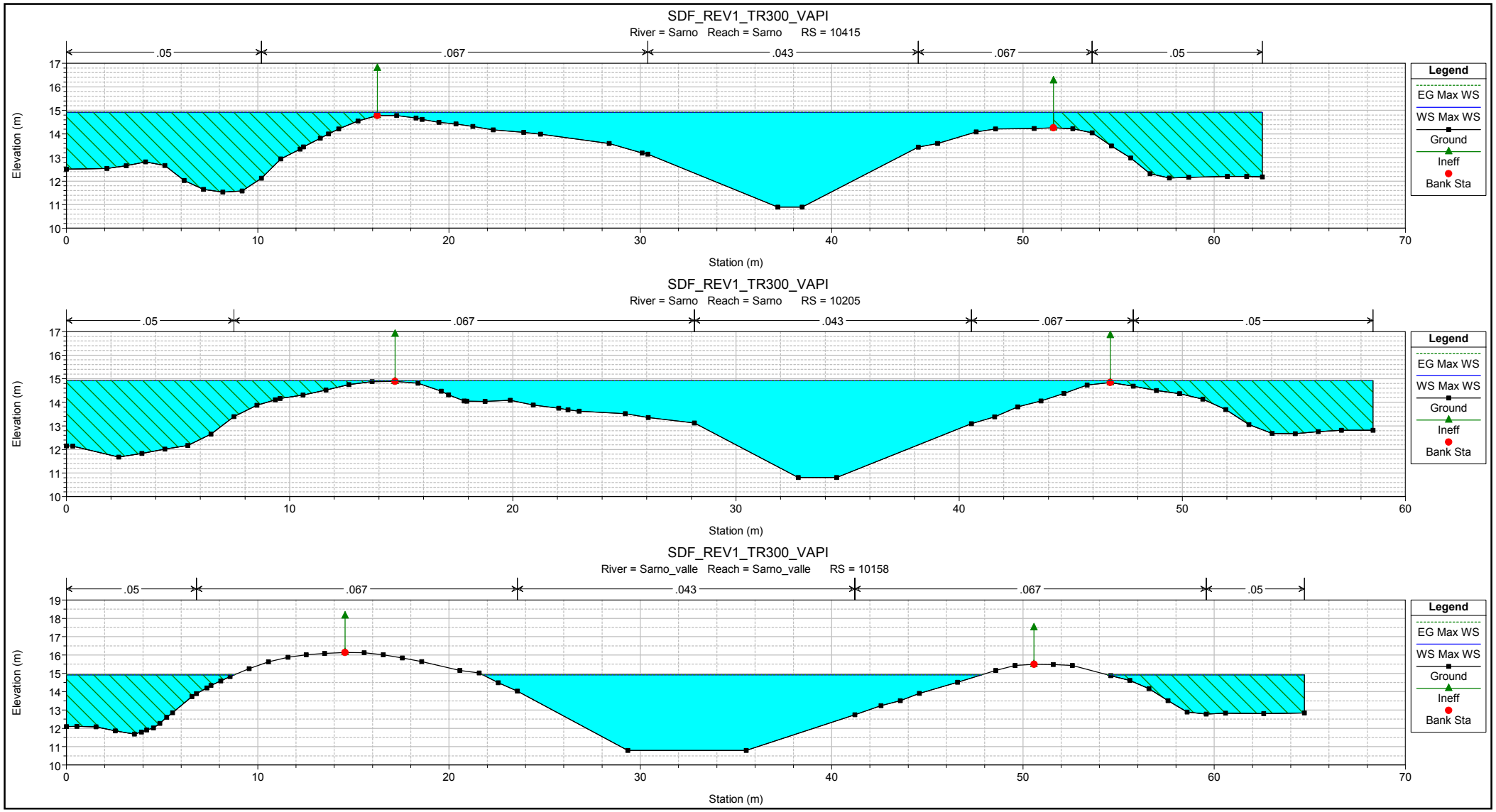

SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12874
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12610
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12325
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

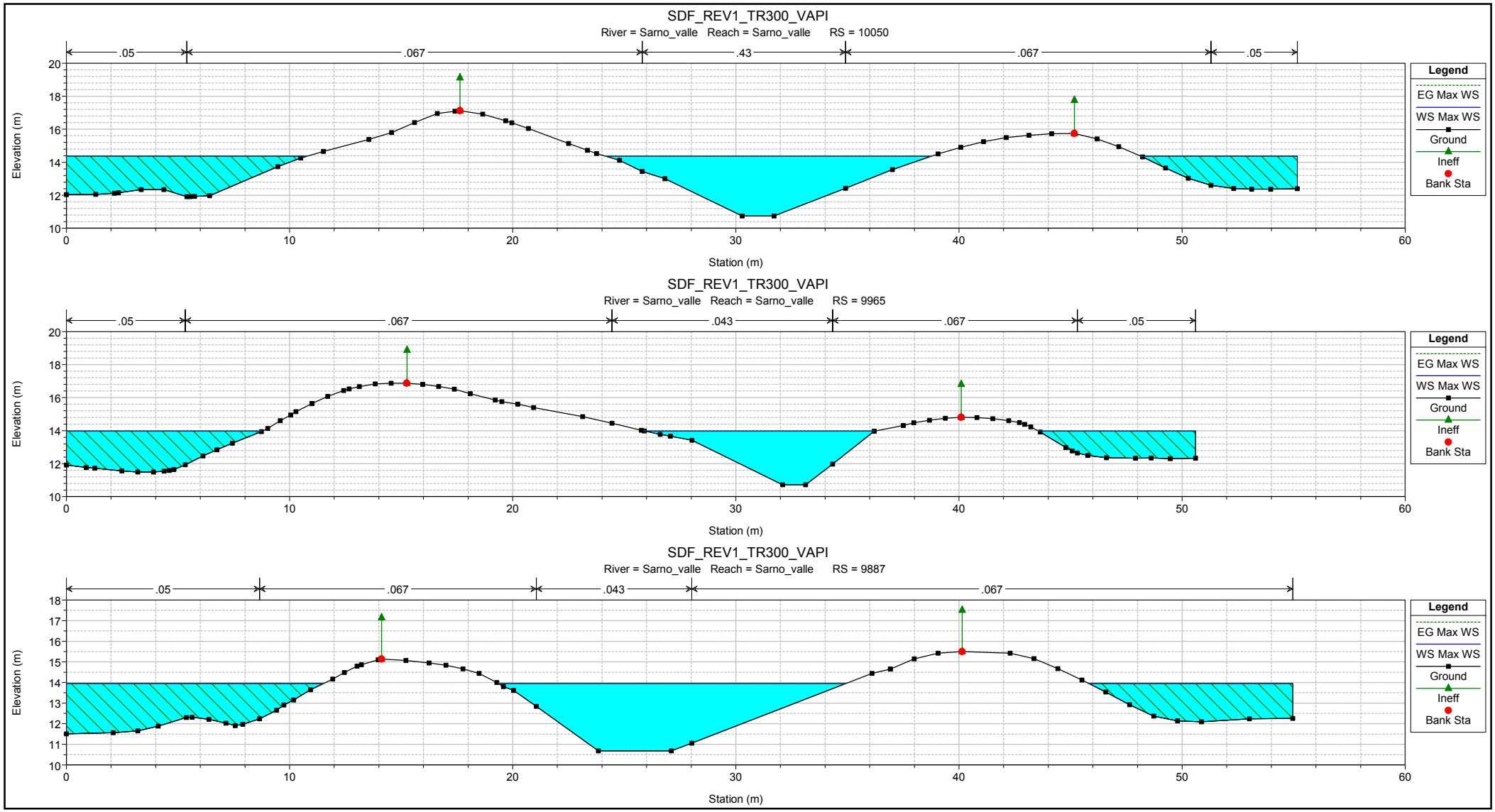

SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12196
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12006
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11856
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

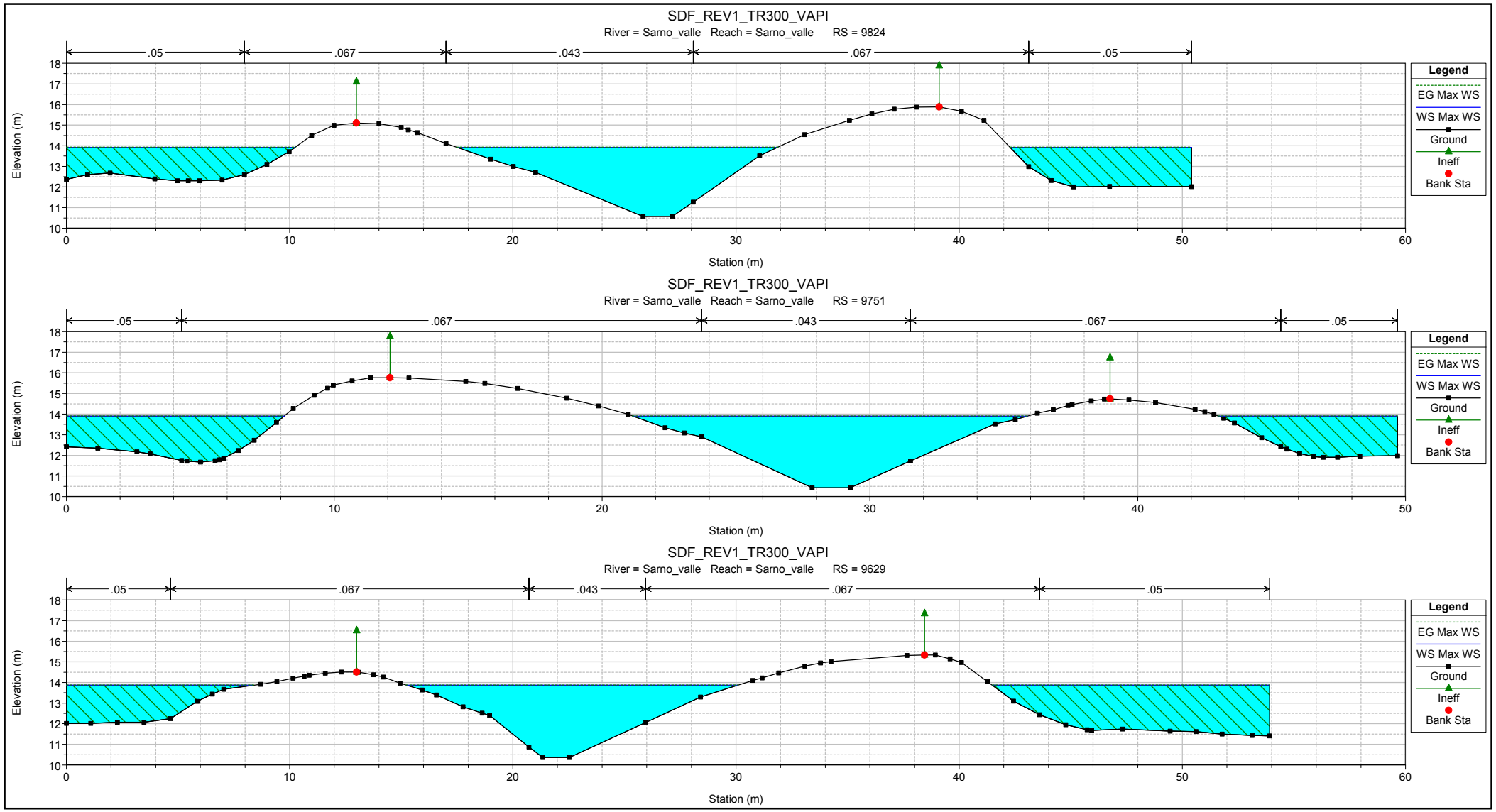

SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11698
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11660
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11647
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

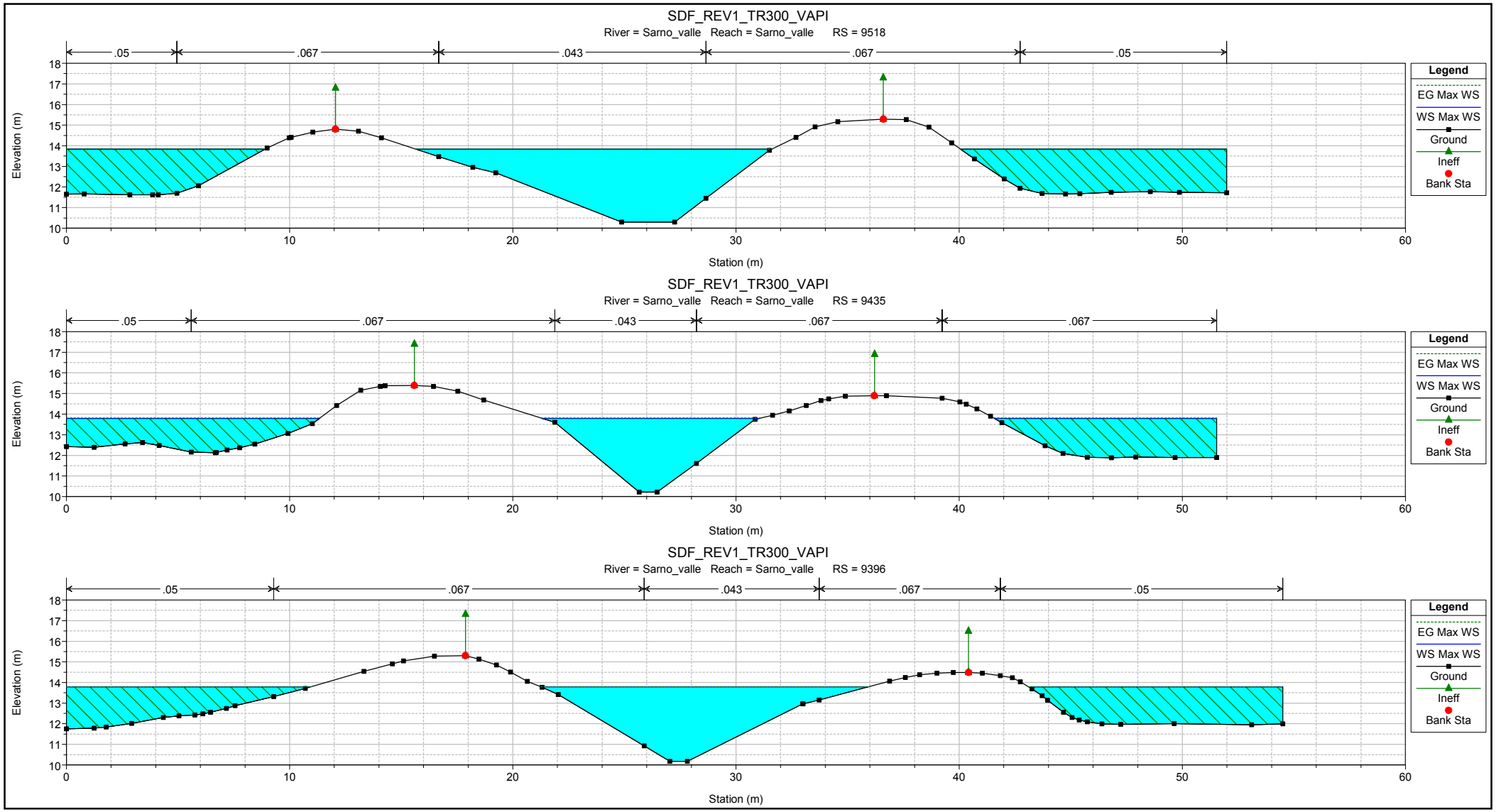

SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11598
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11539
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11326
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

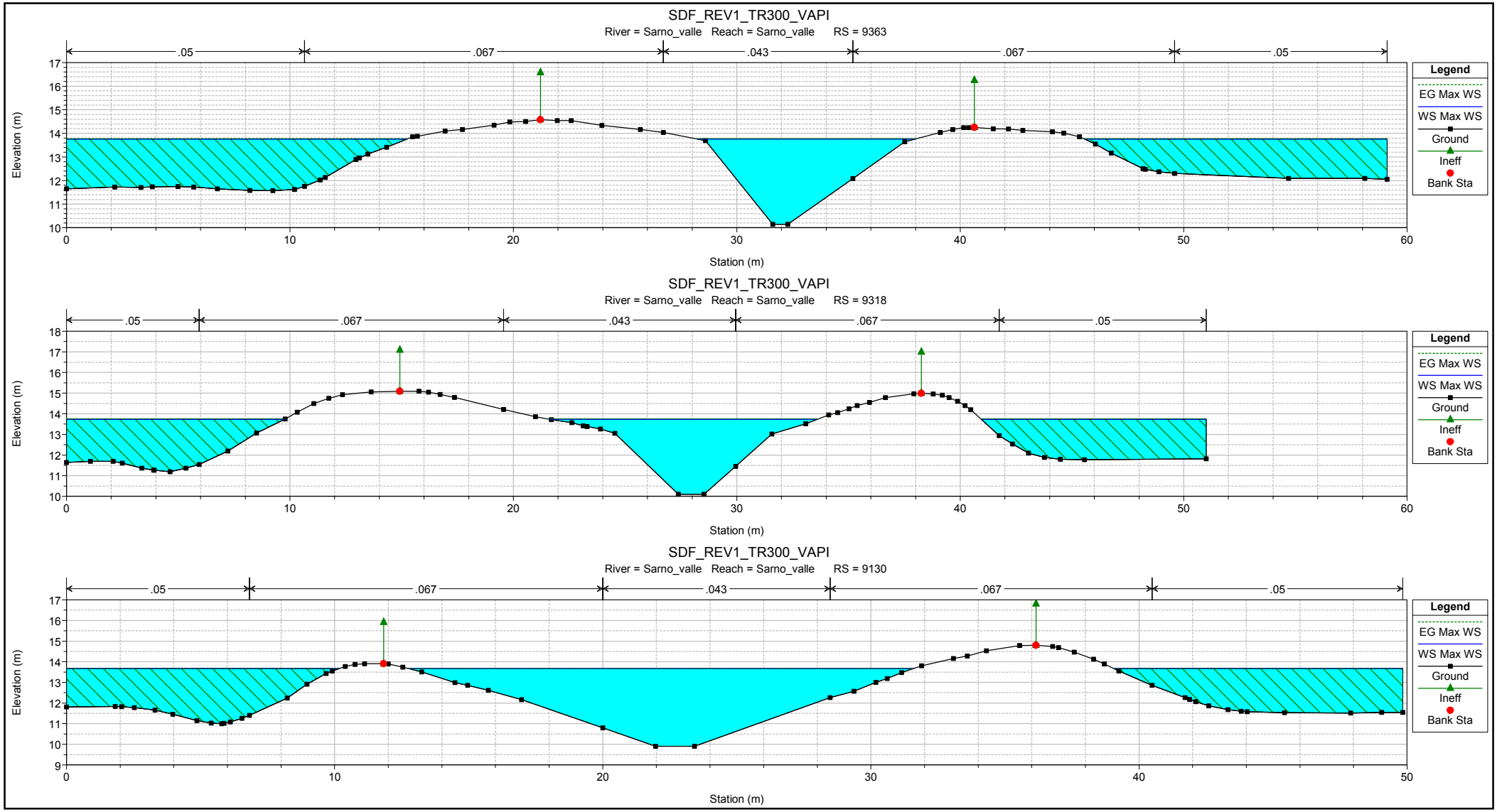

SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11000
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 10836
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 10589
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

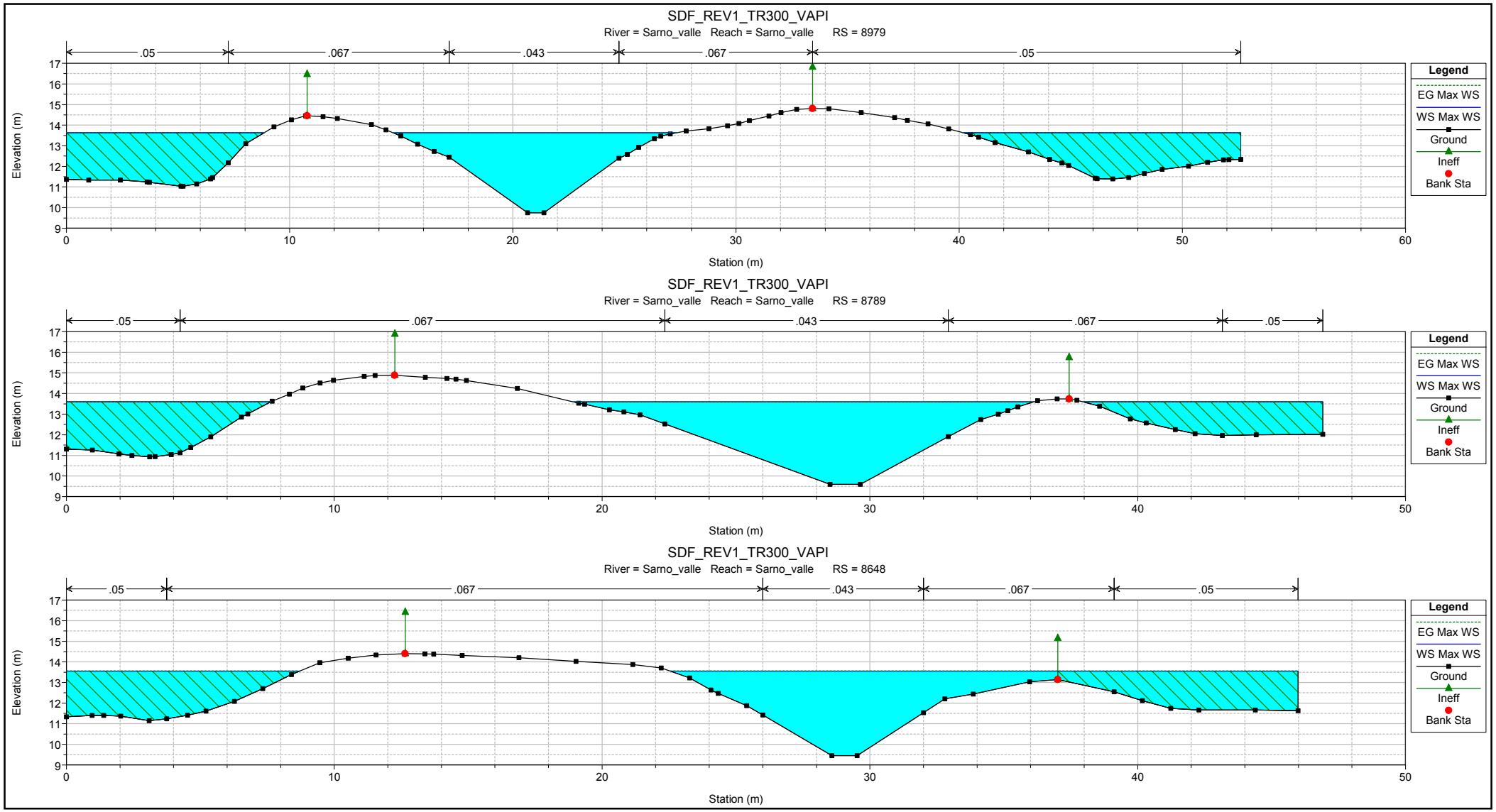

SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 10415
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 10205
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10158
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

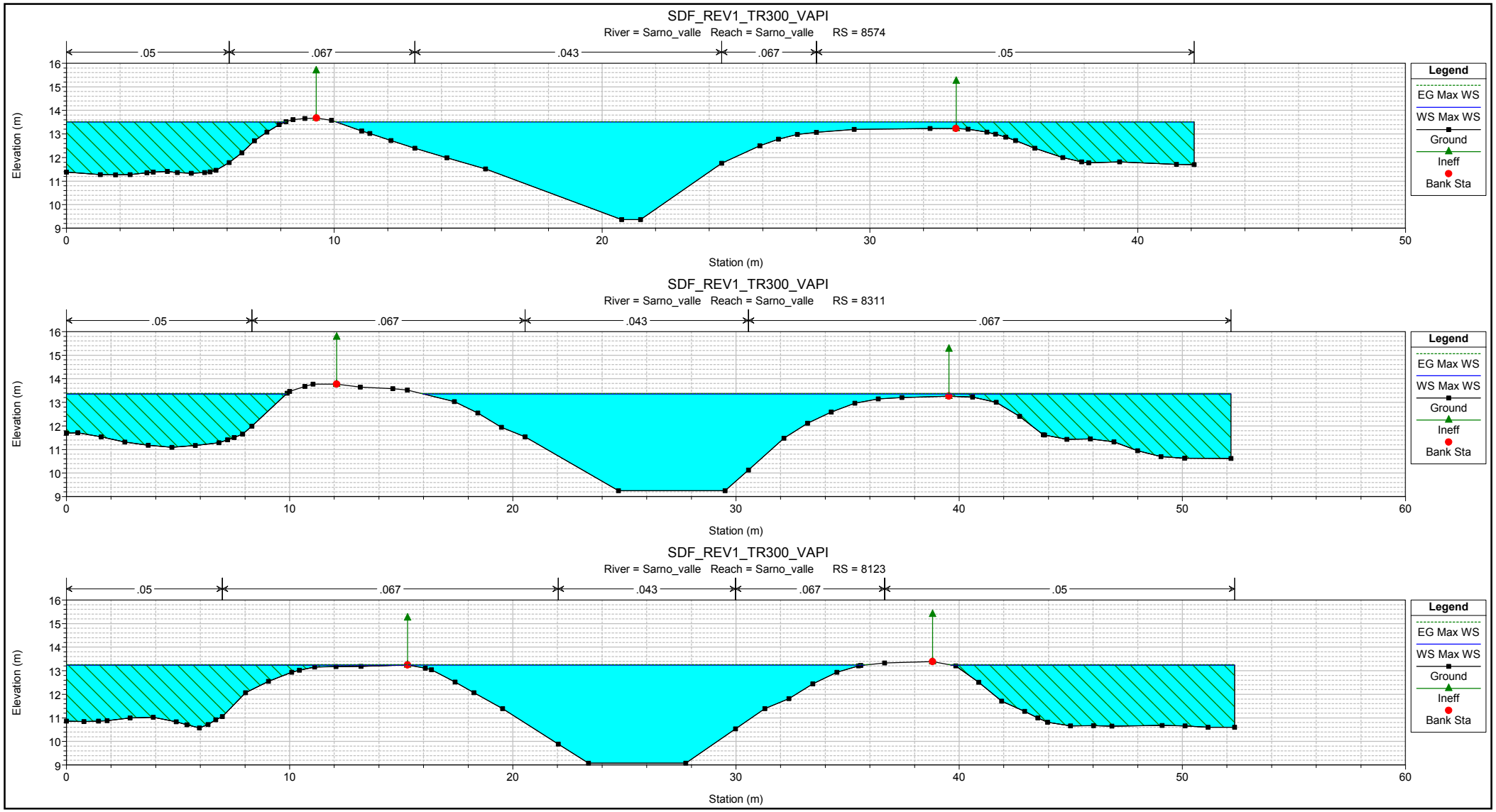

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10050
.05
.067
.43
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9965
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9887
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

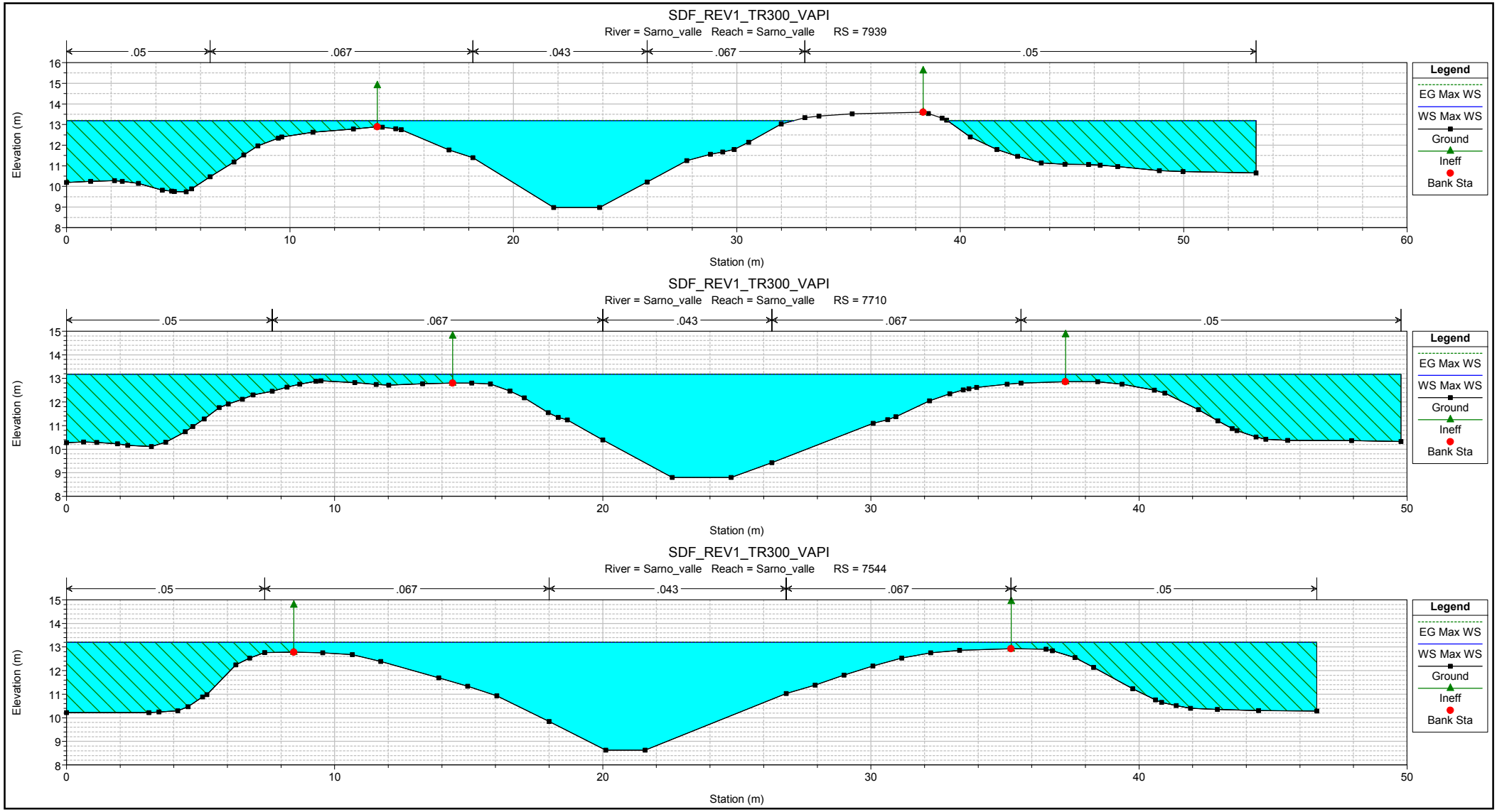

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9824
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9629
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

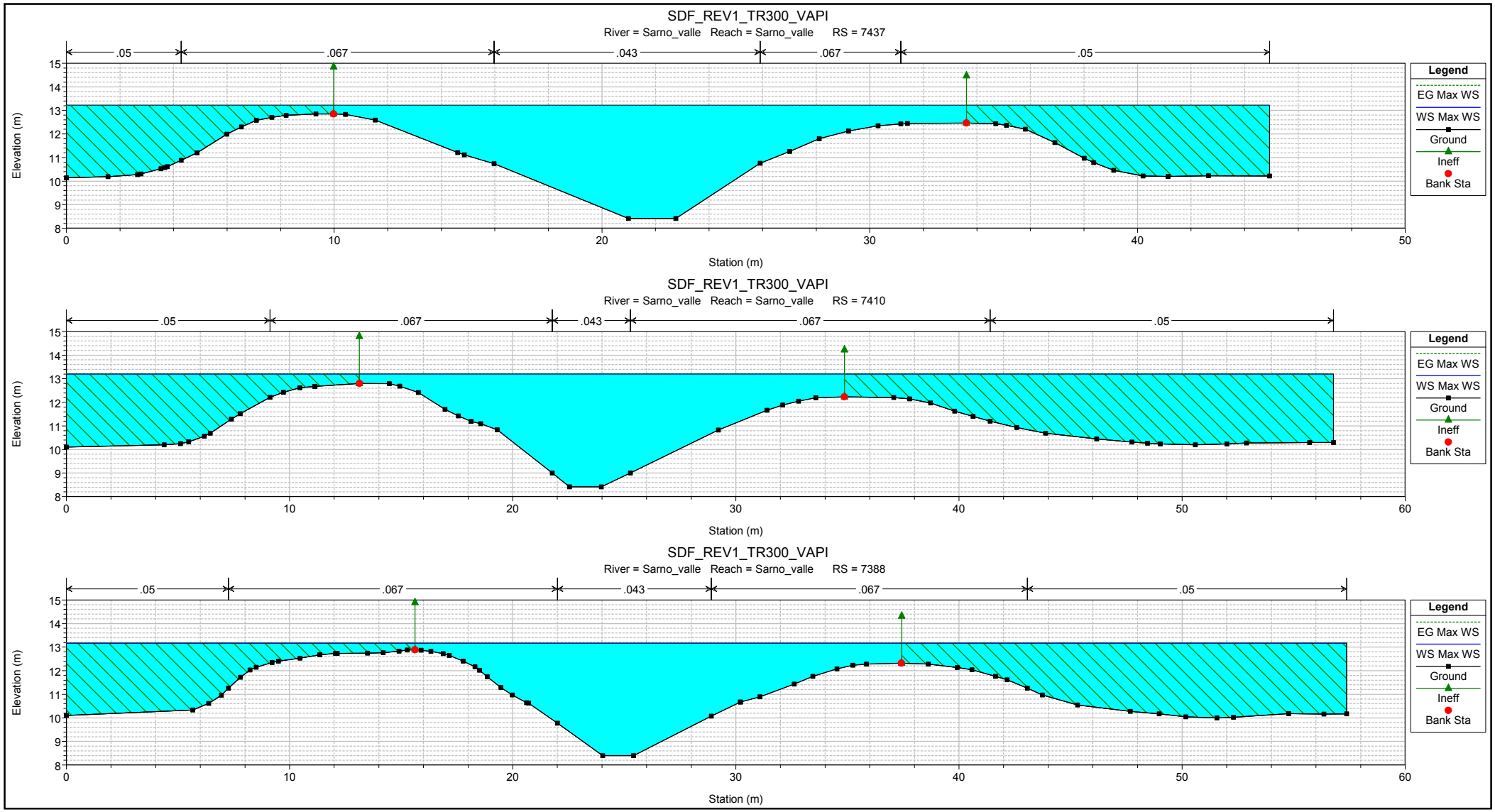

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9518
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9435
.05
.067
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9396
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

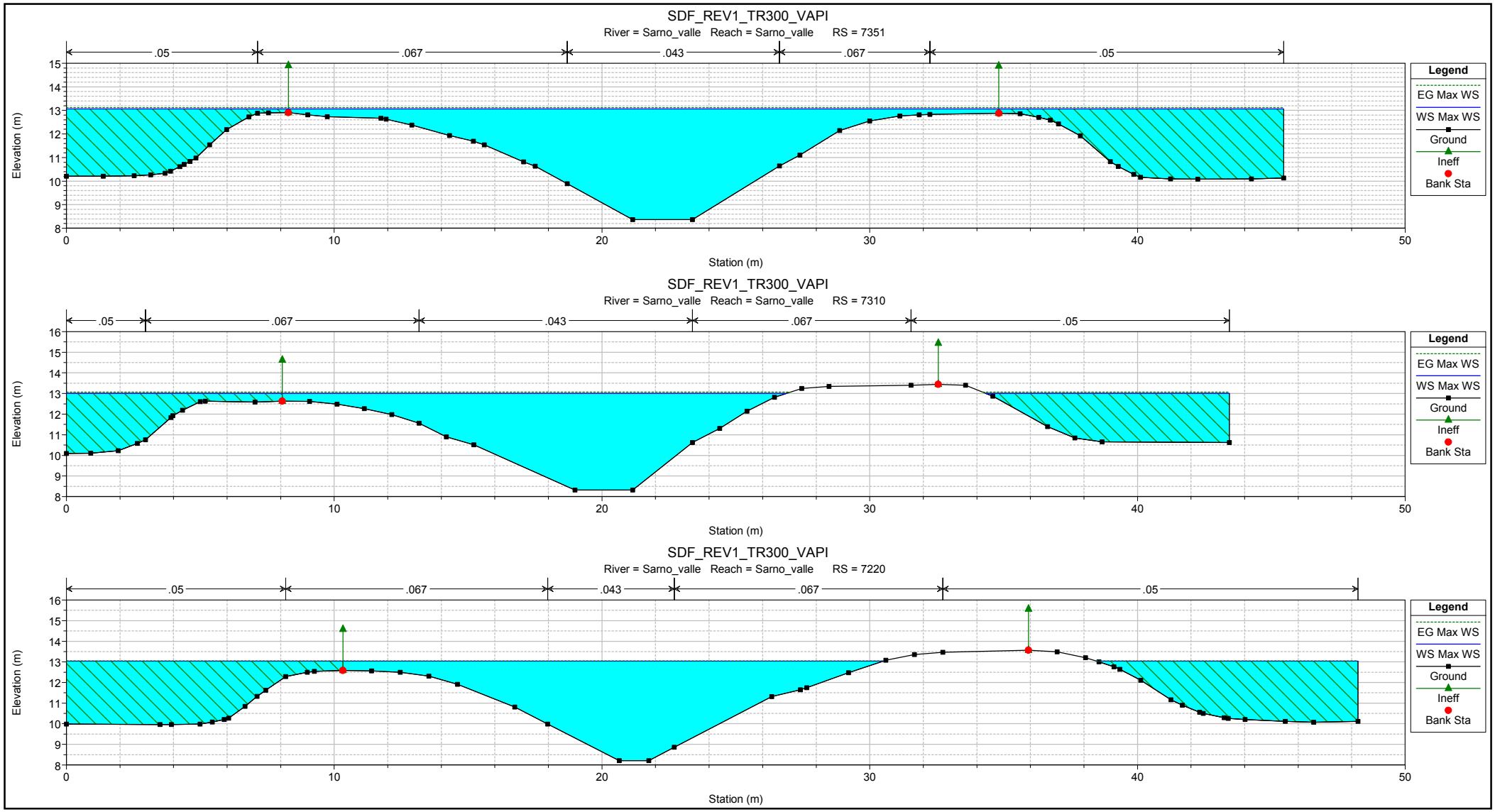

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9363
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9318
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9130
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

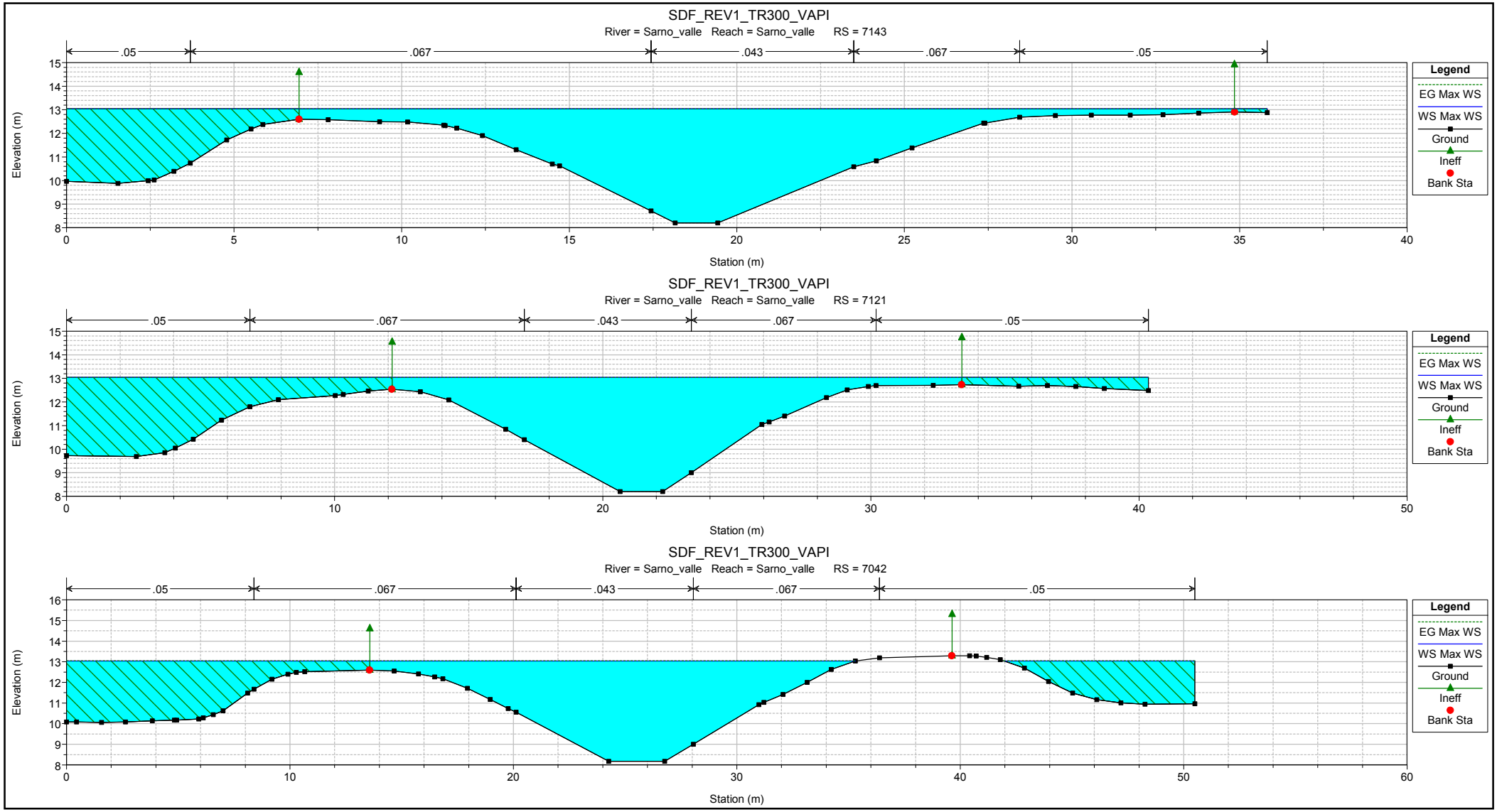

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8979
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8789
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8648
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

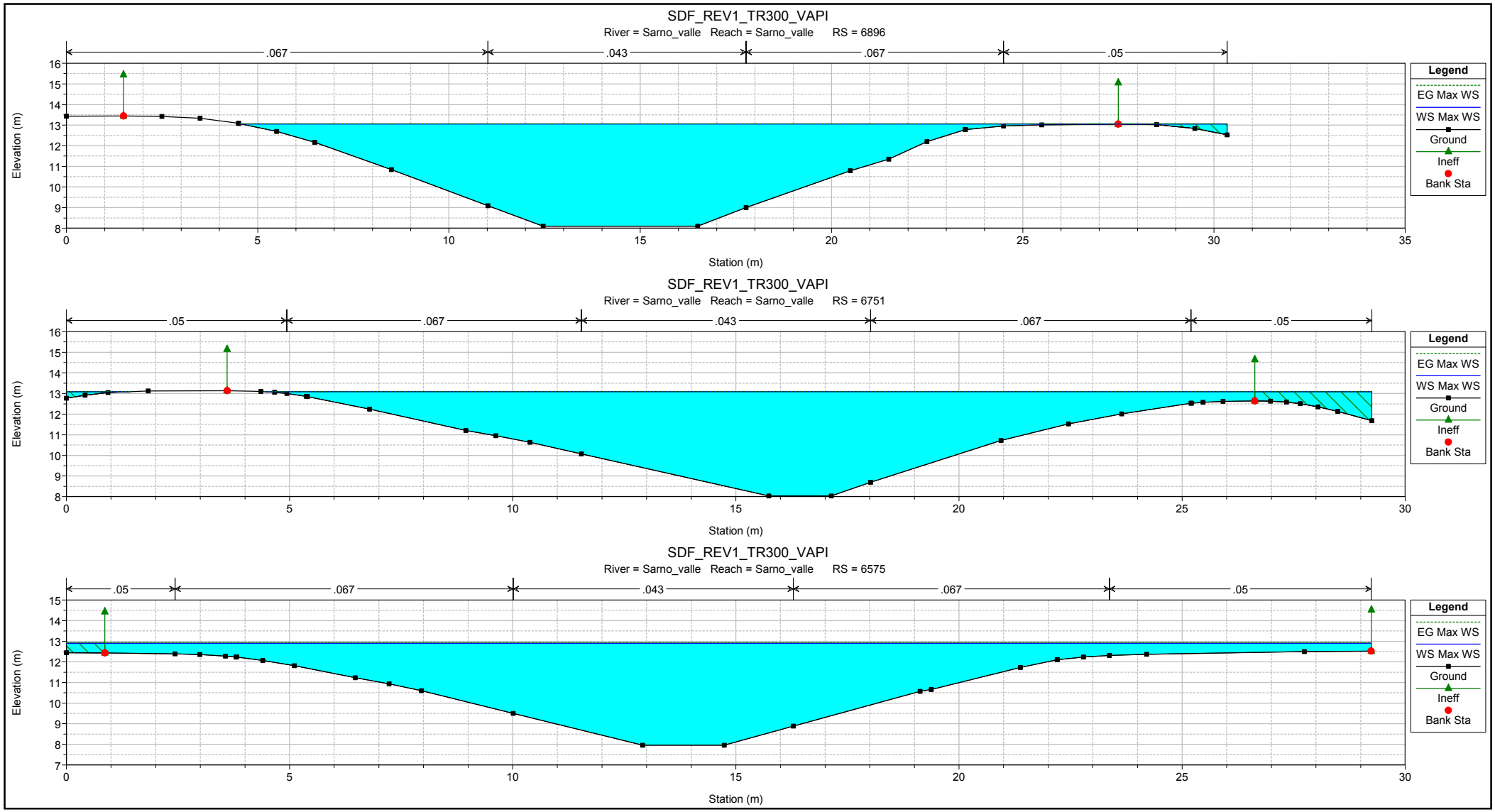

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8574
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8311
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8123
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

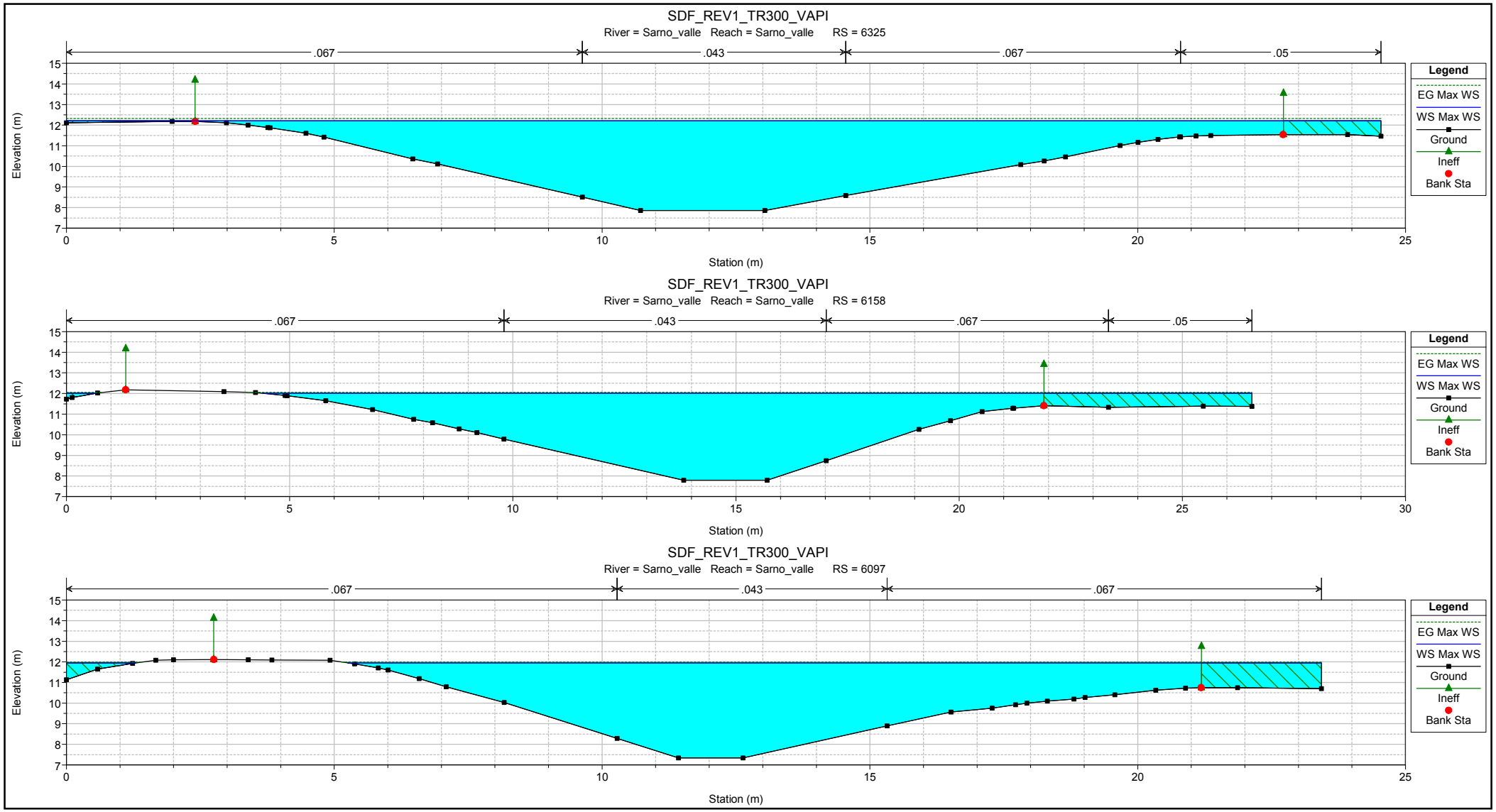

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7939
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7710
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7544
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

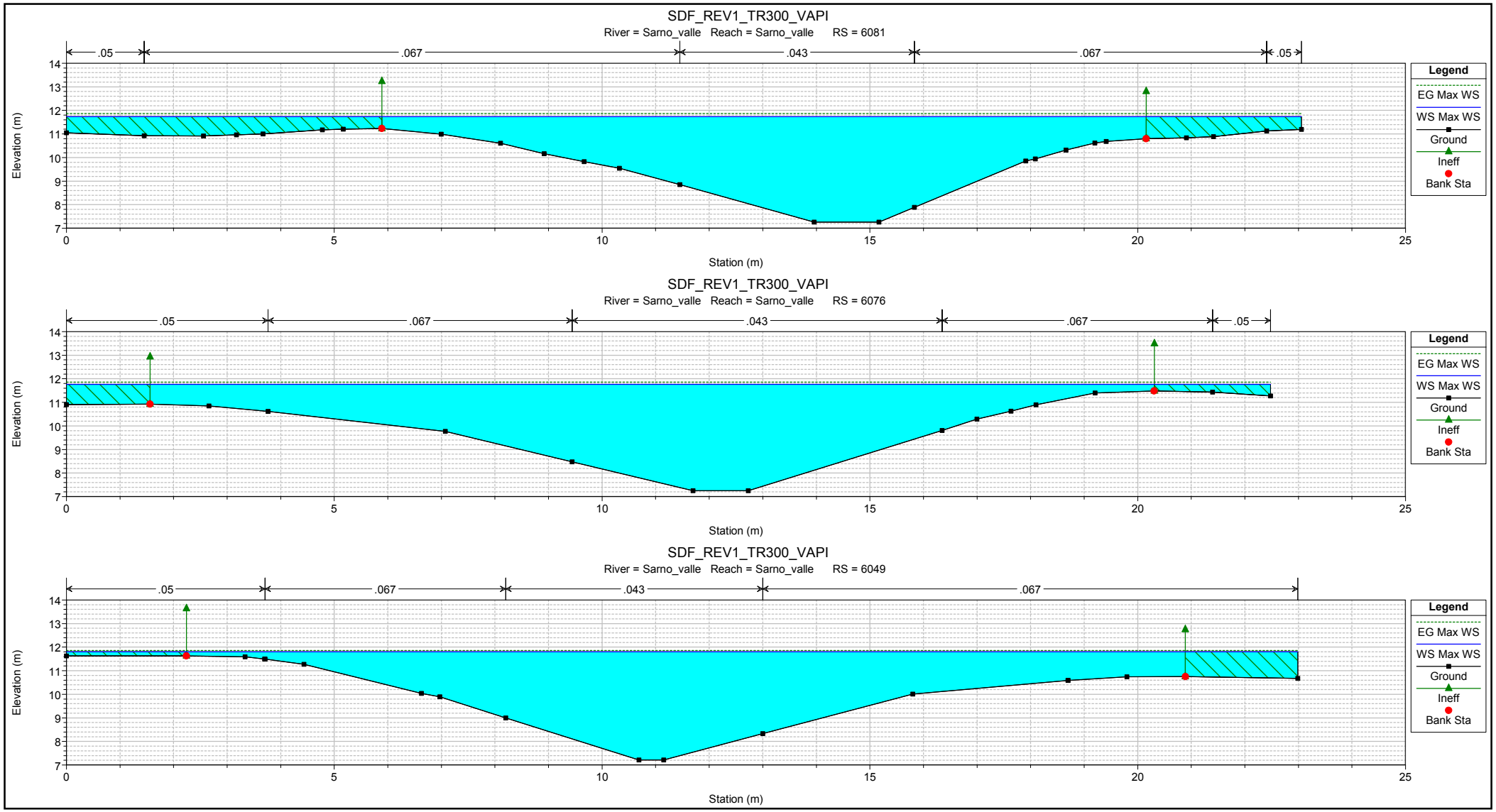

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7410
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7388
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

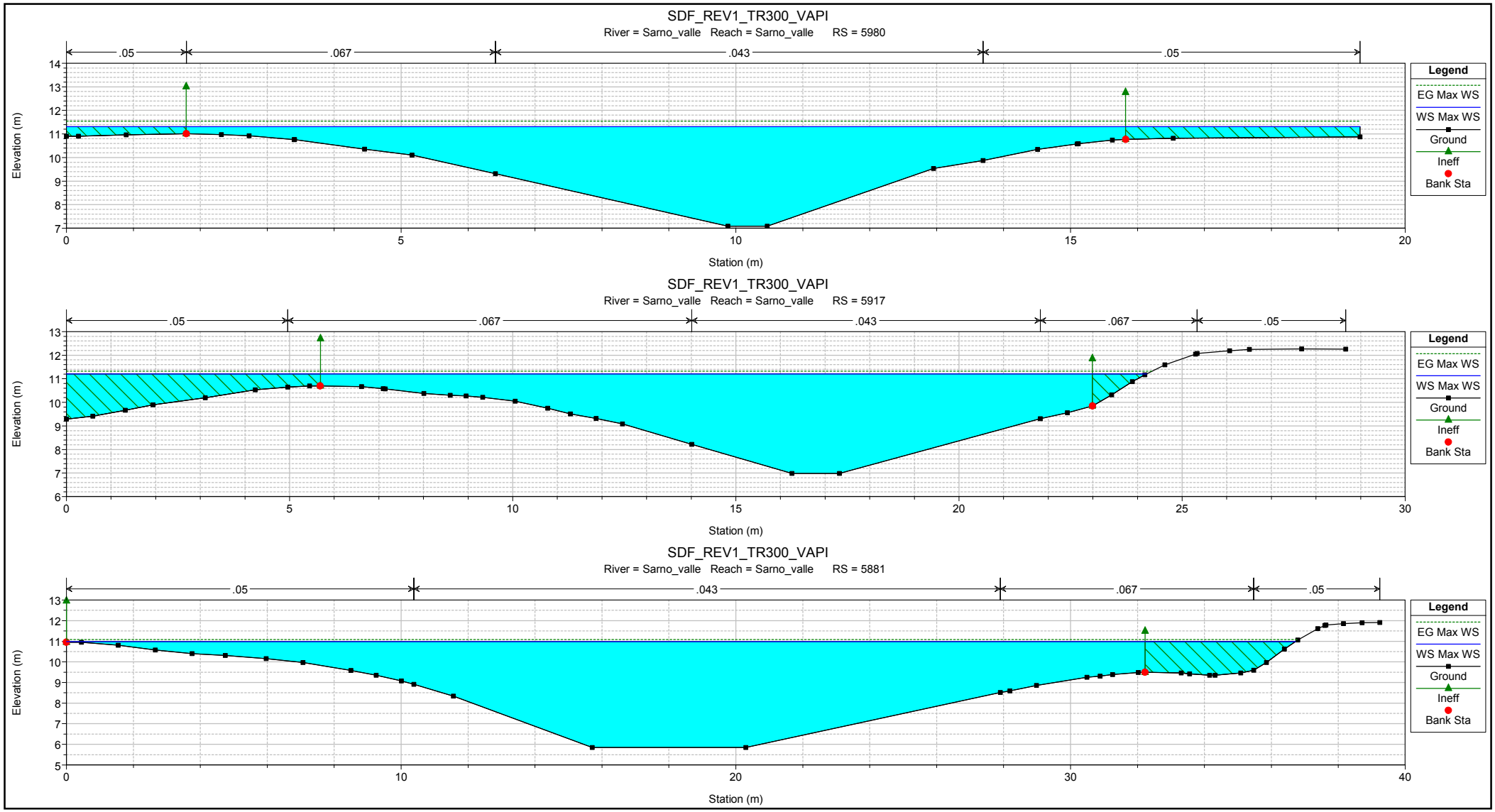

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7310
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

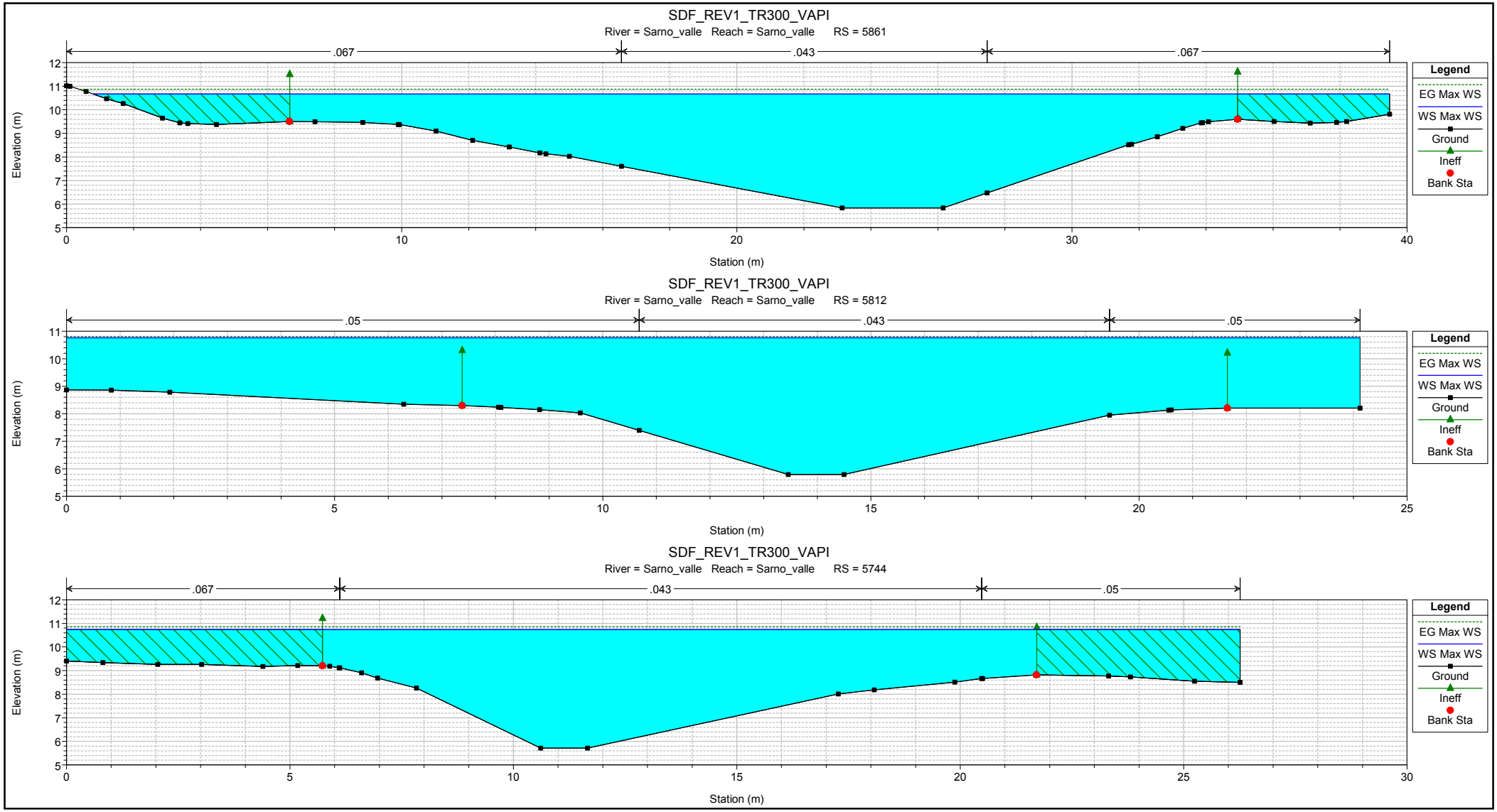

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7143
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7121
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7042
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

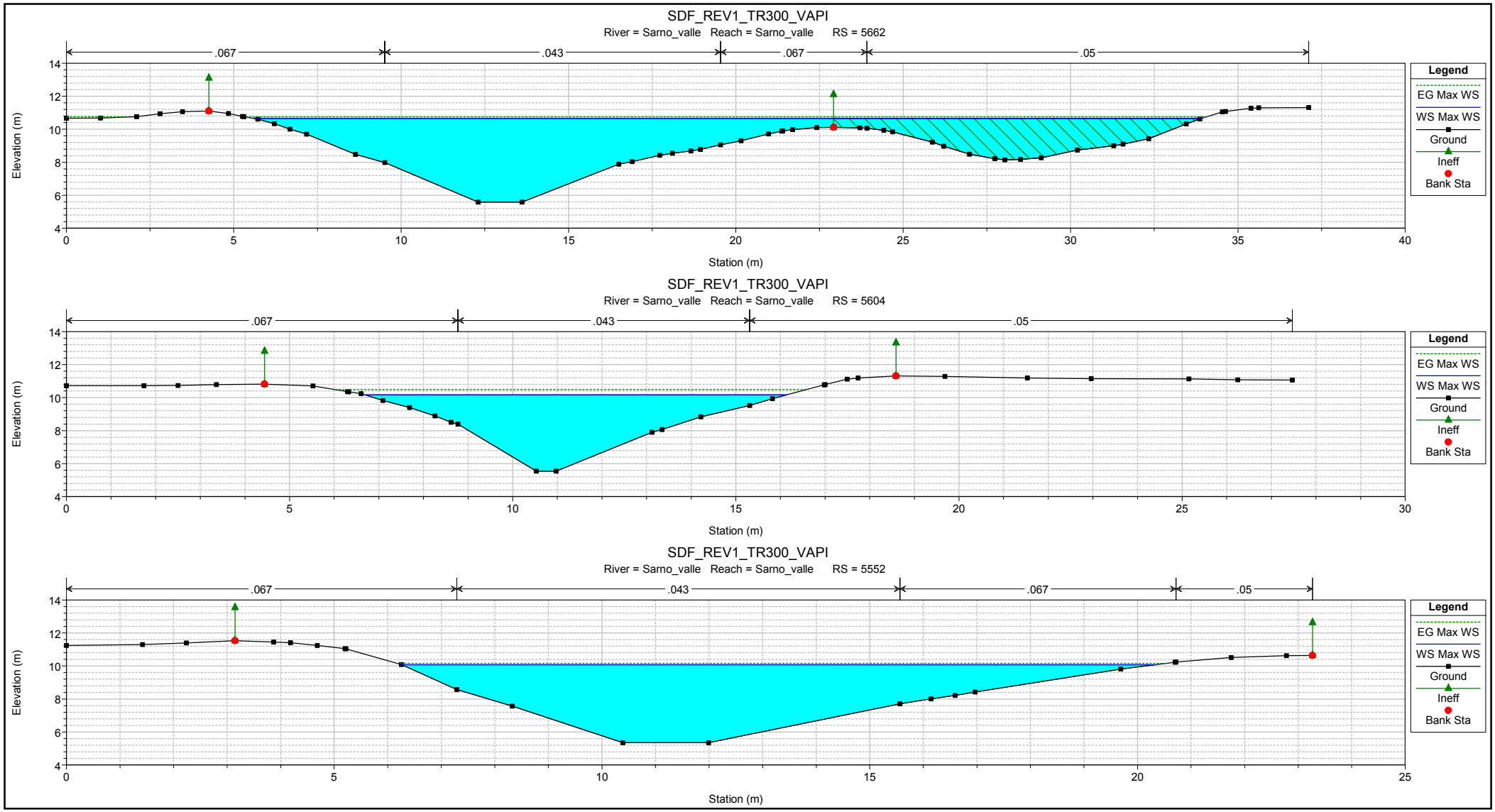

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6896
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6575
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

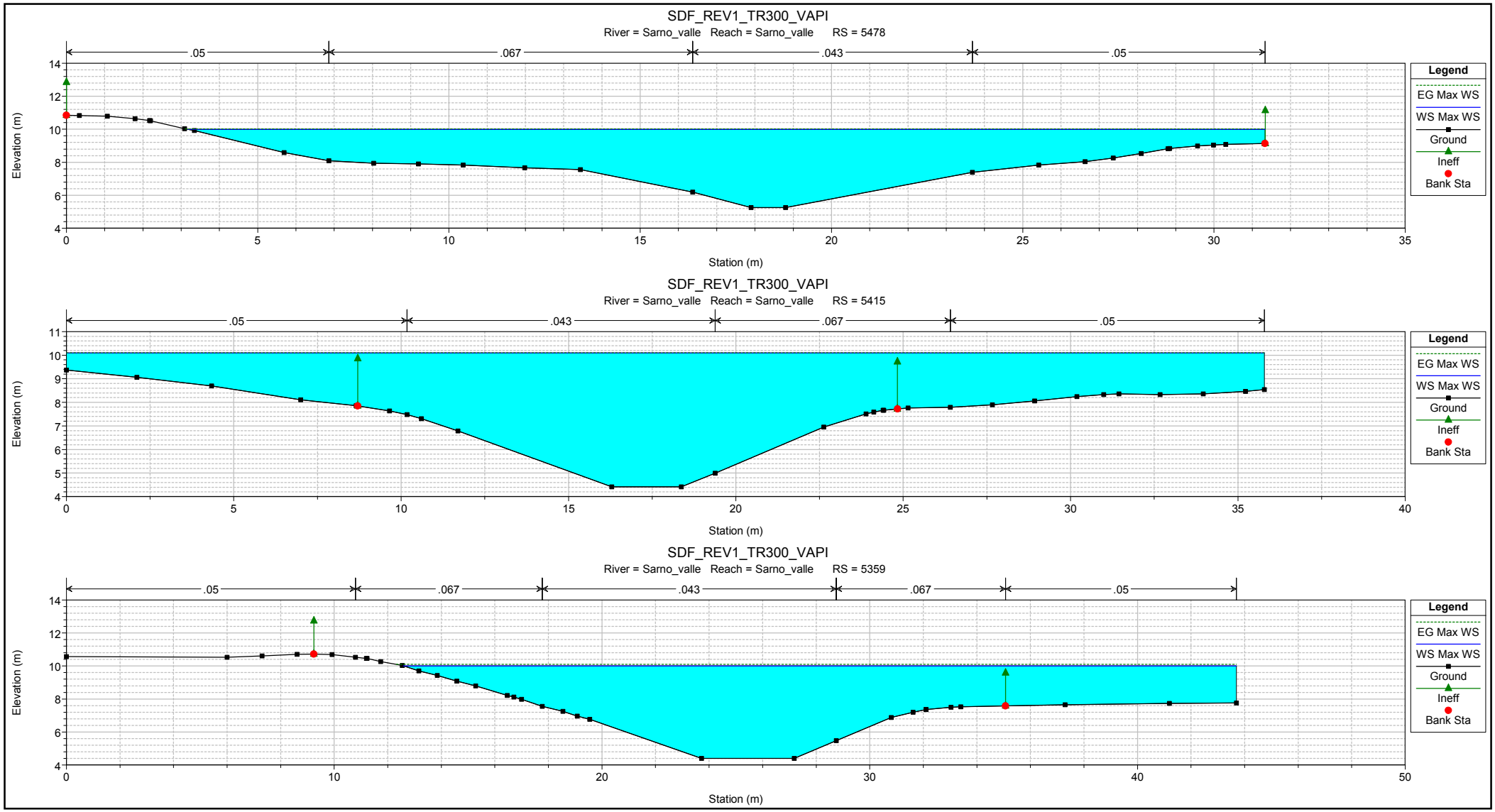

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6325
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6158
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6097
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

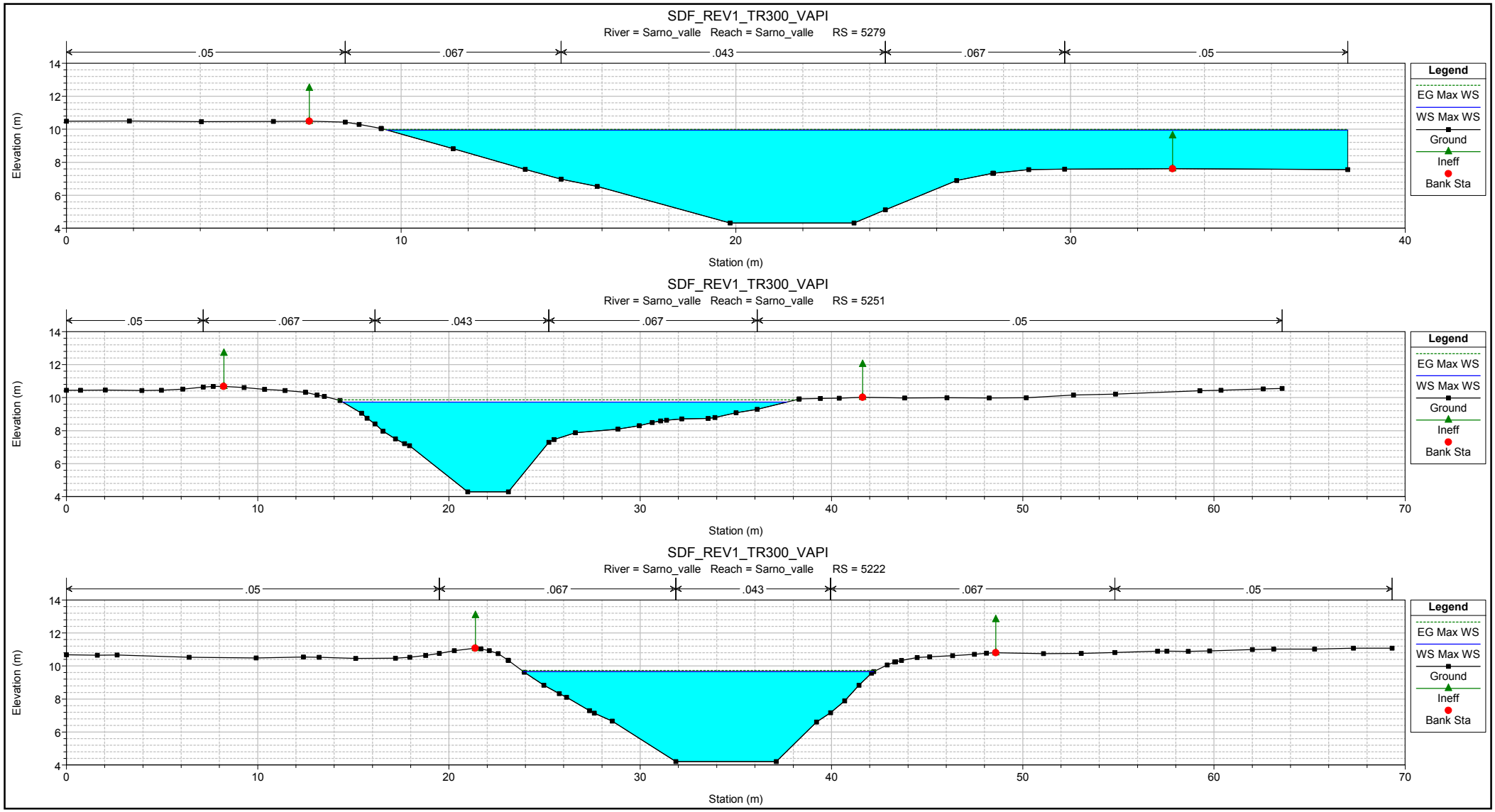

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6081
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6076
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6049
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

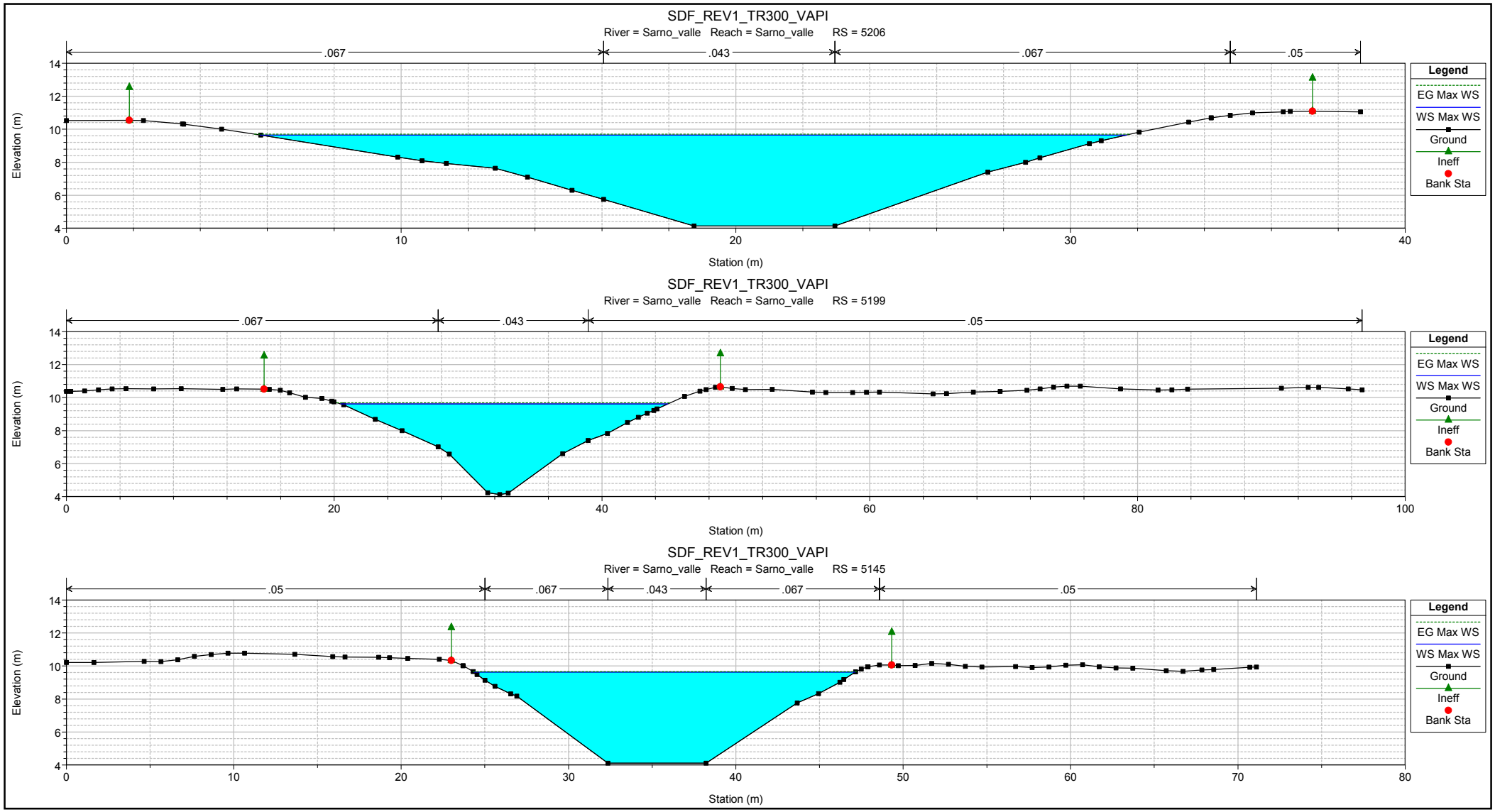

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5980
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5917
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5881
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

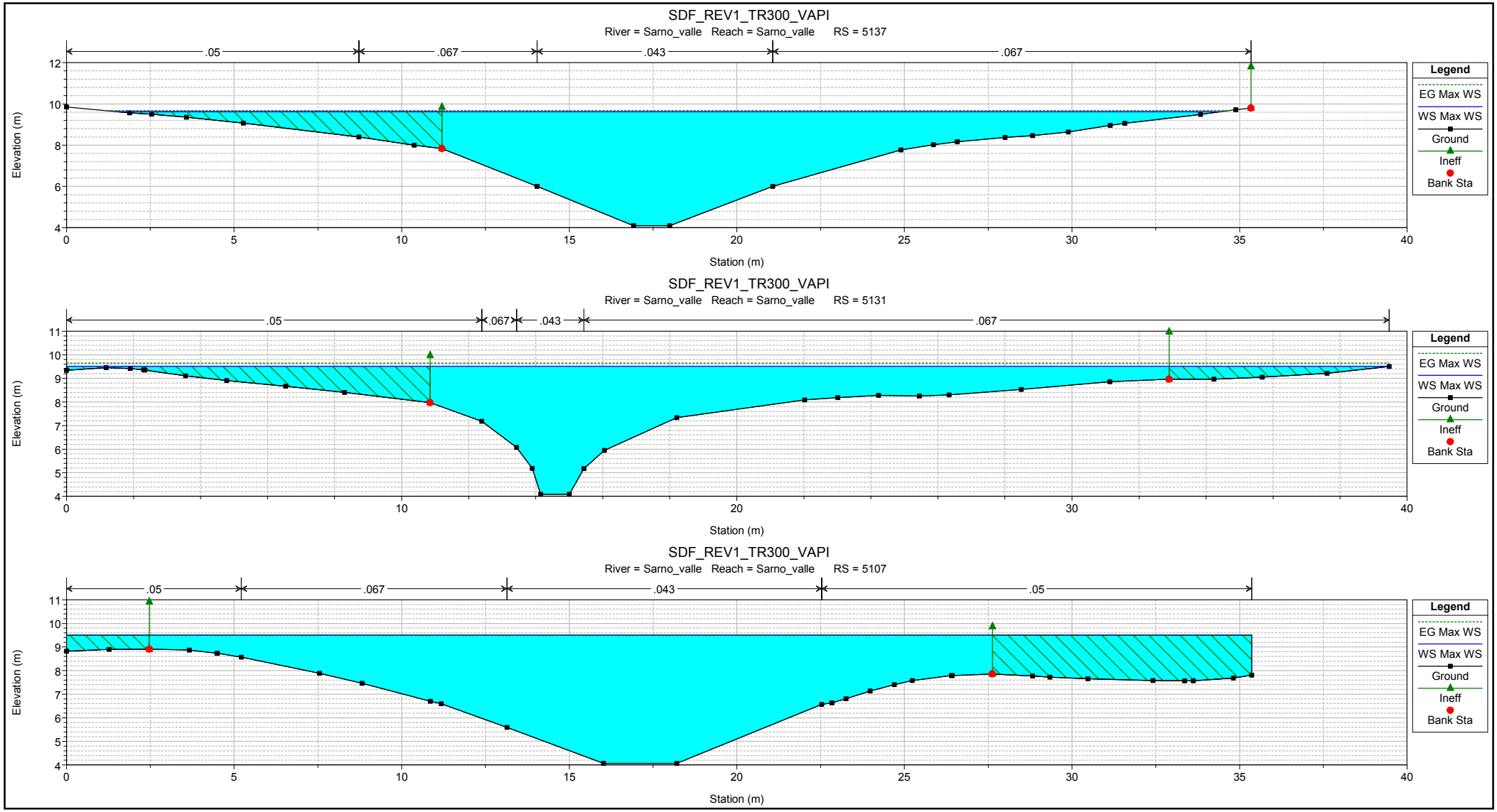

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5861
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5812
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5744
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

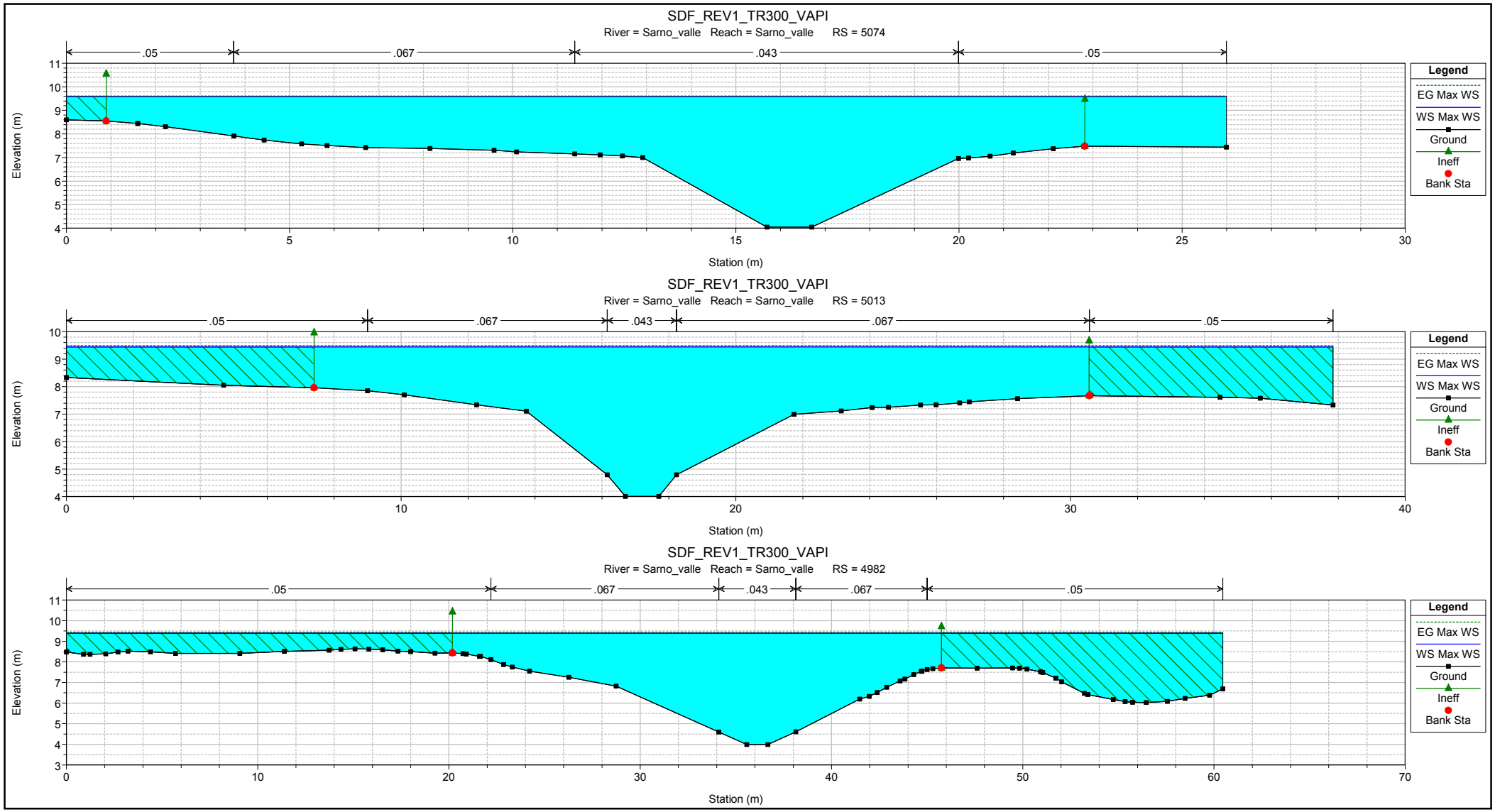

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5662
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5604
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5552
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

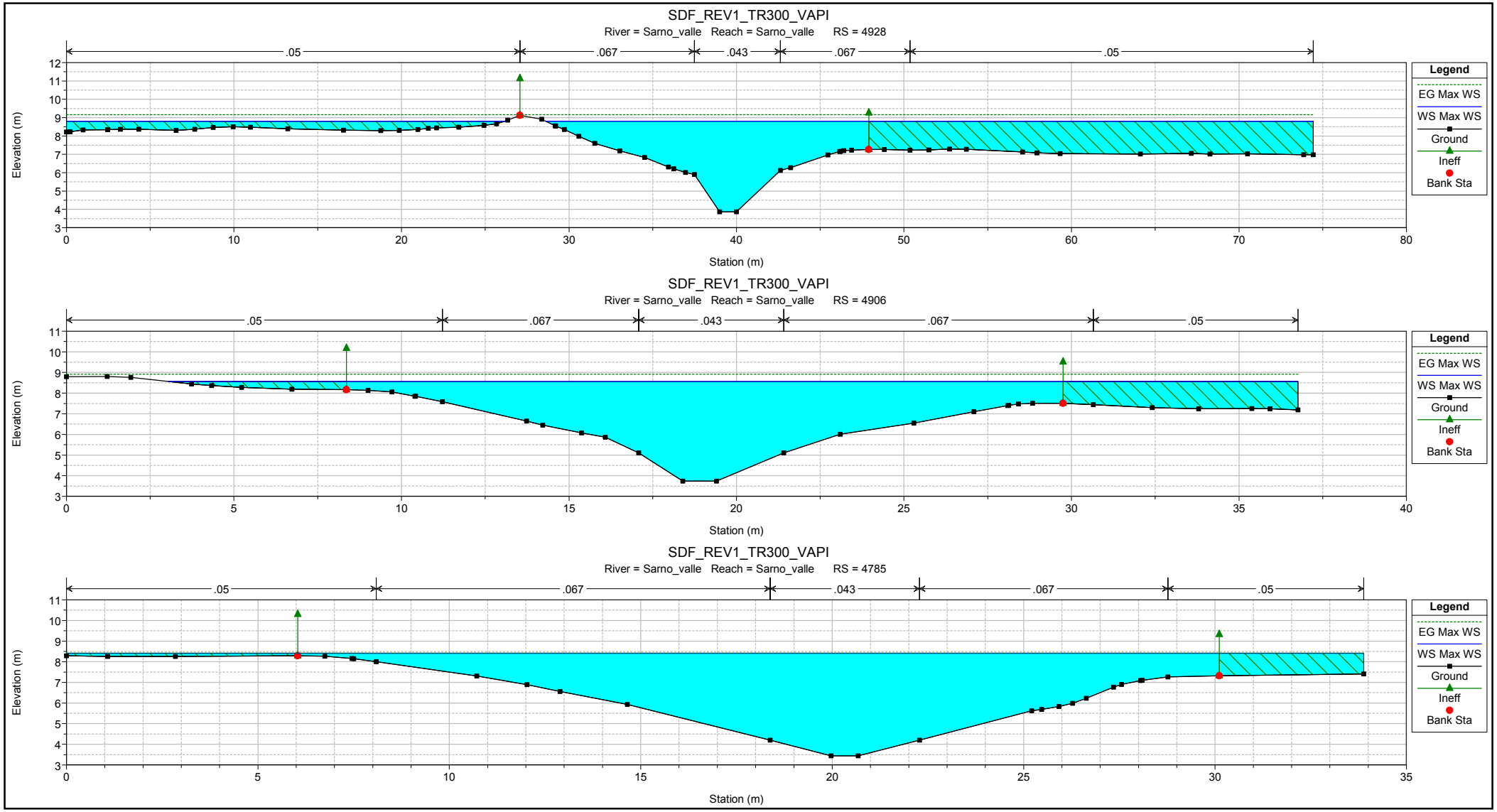

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5478
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5415
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5359
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

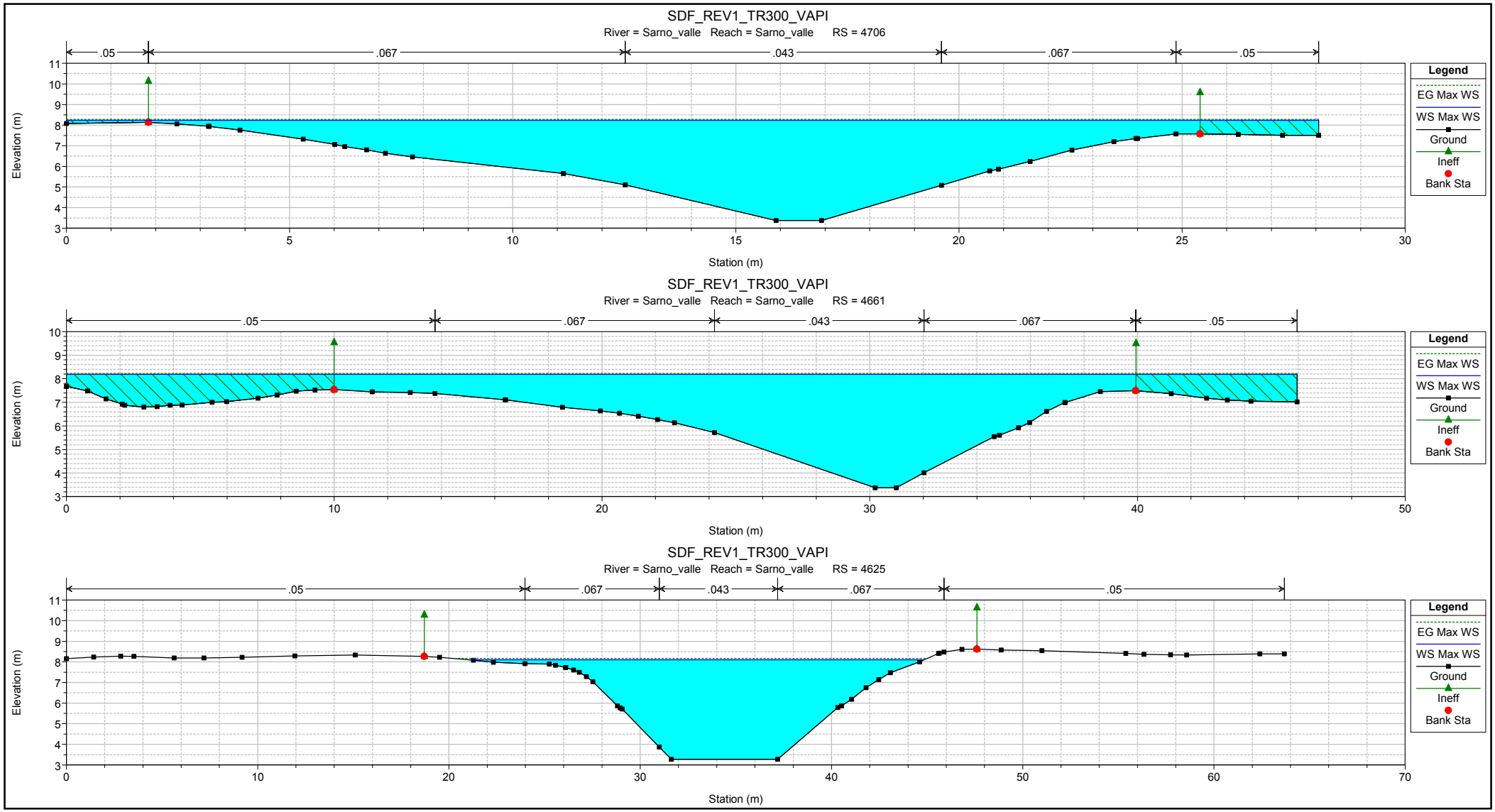

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5279
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5251
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5222
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

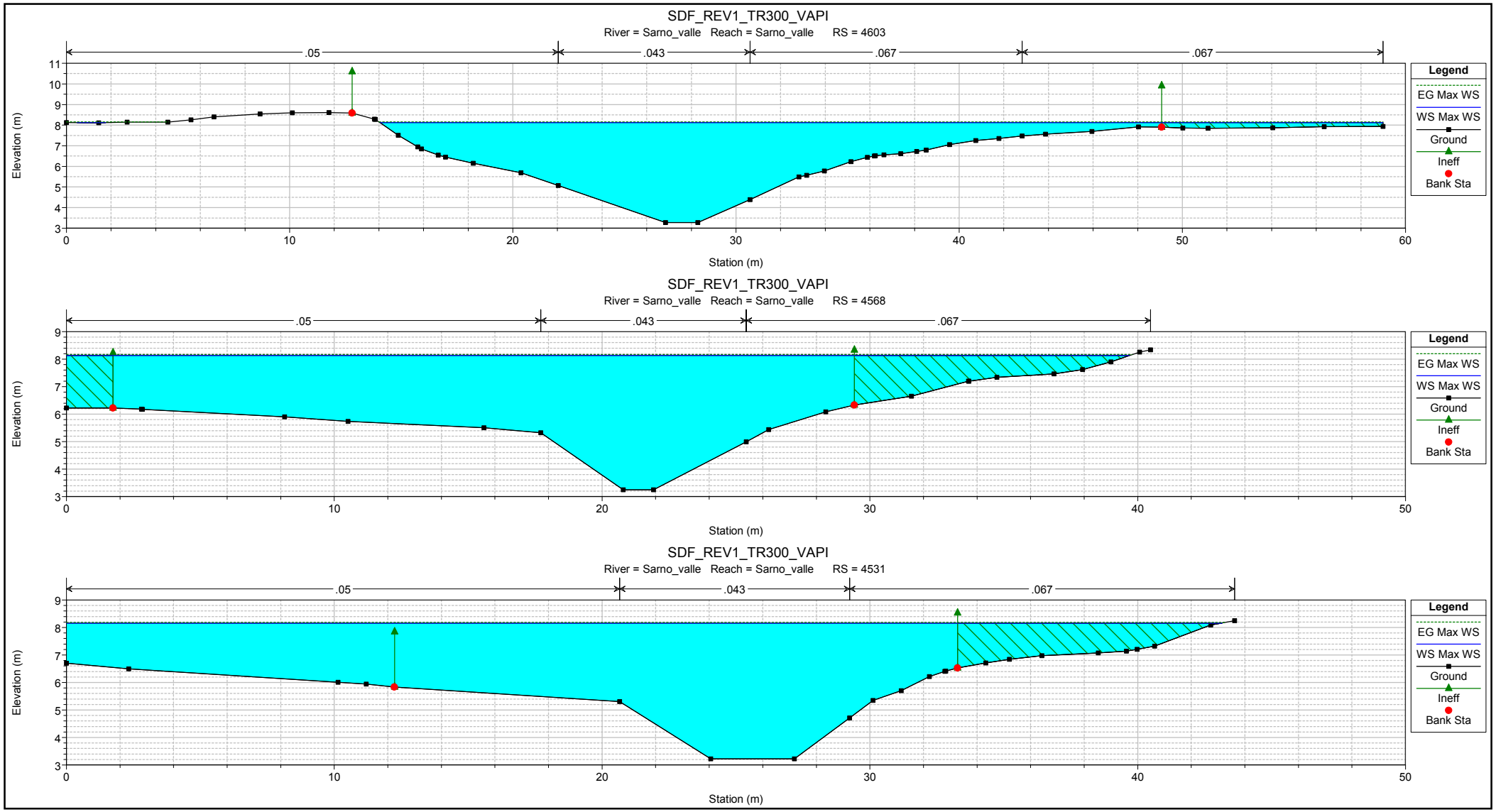

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5206
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5199
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5145
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

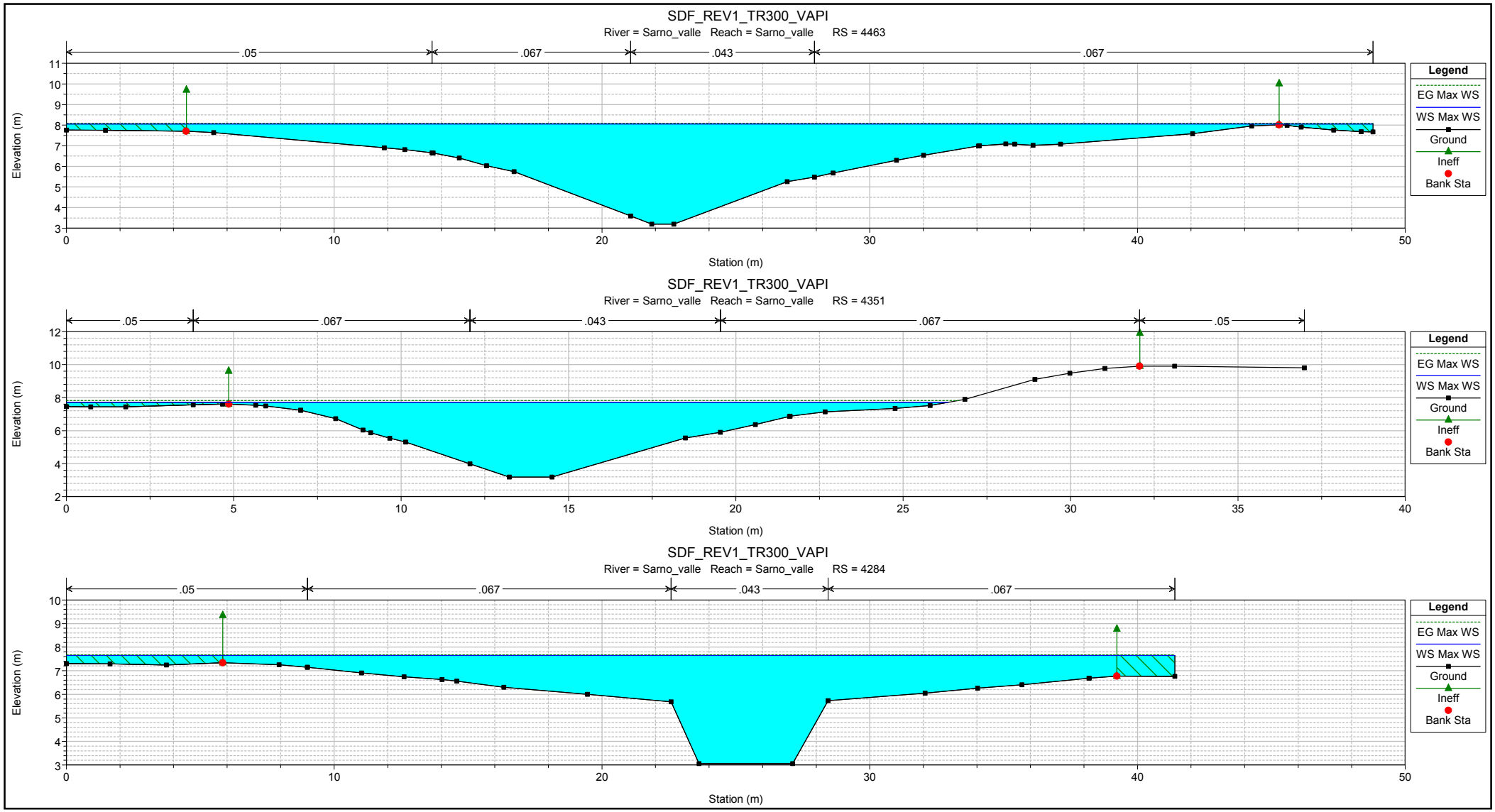

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5137
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5131
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5107
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

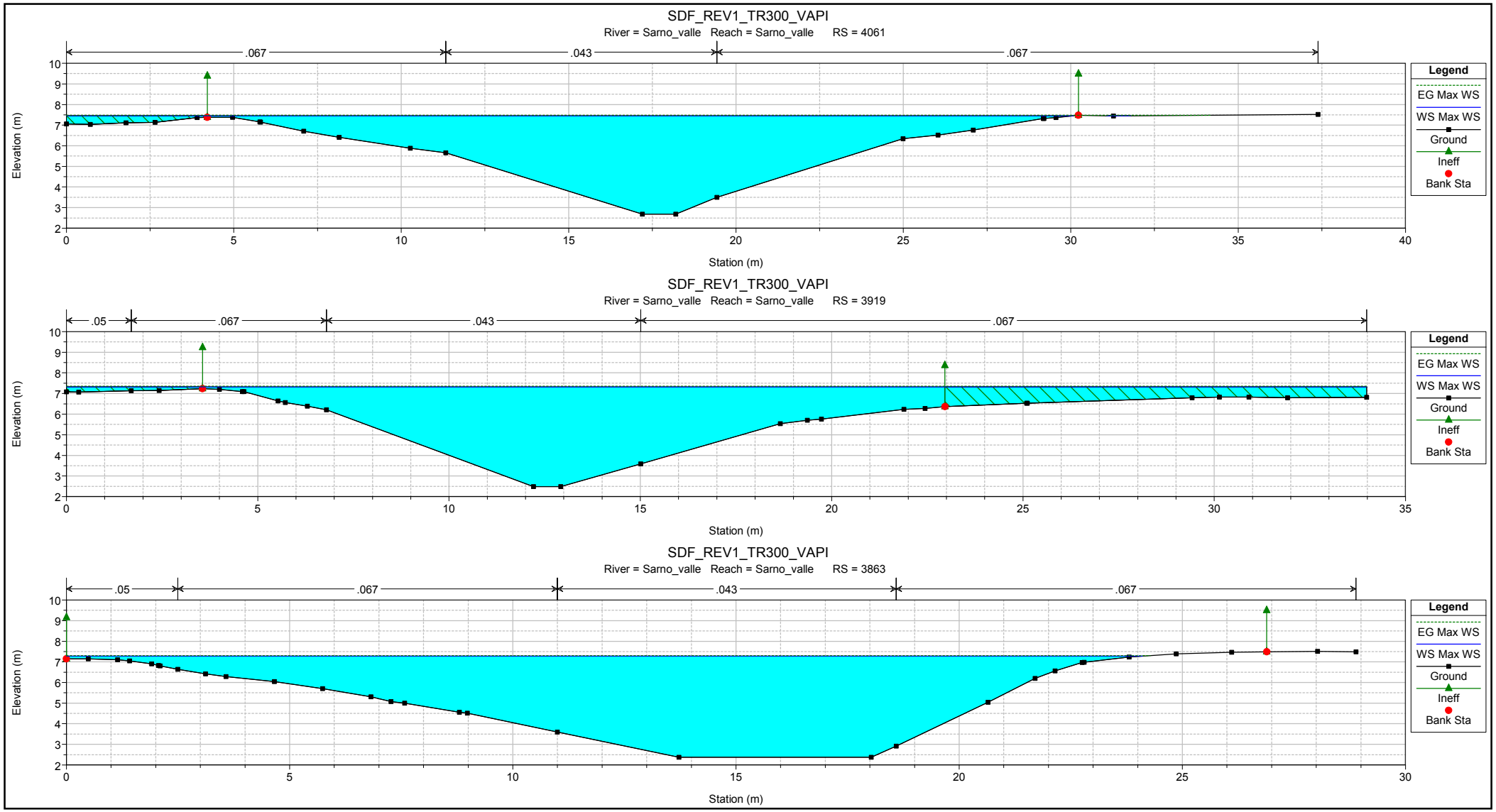

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5074
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5013
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4982
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

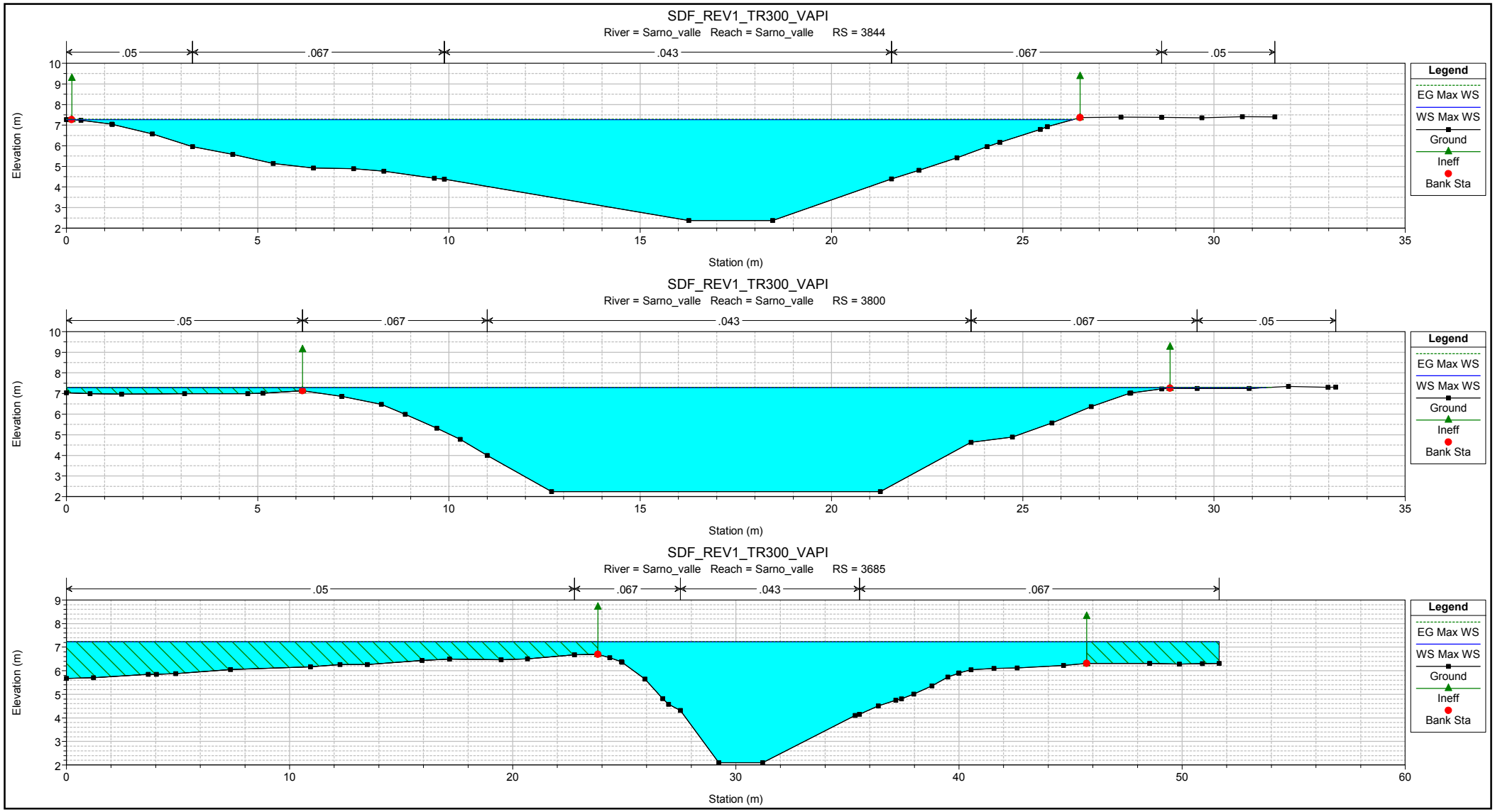

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4928
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4906
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4785
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

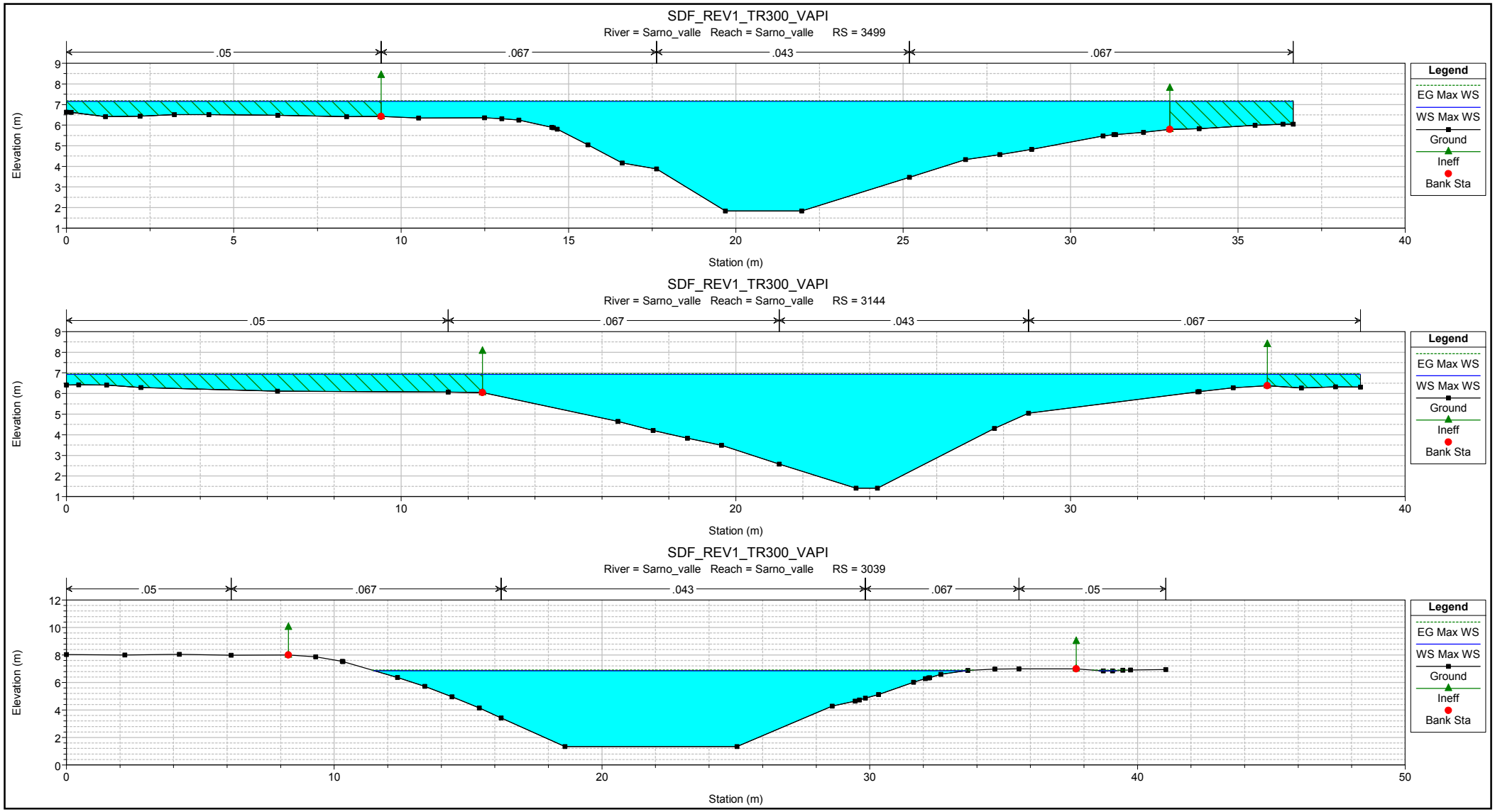

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4706
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4661
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4625
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

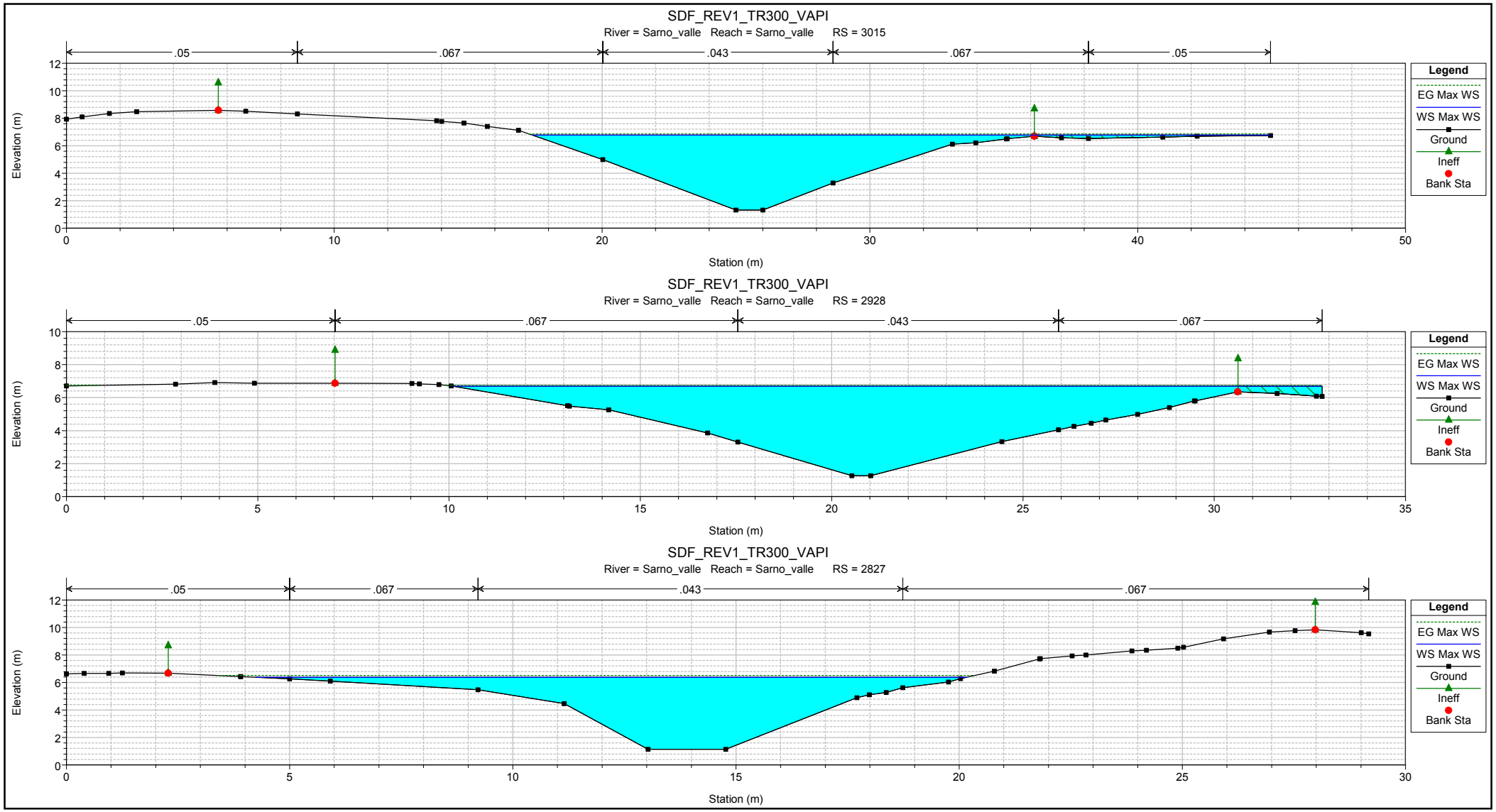

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4603
.05
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4568
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4531
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

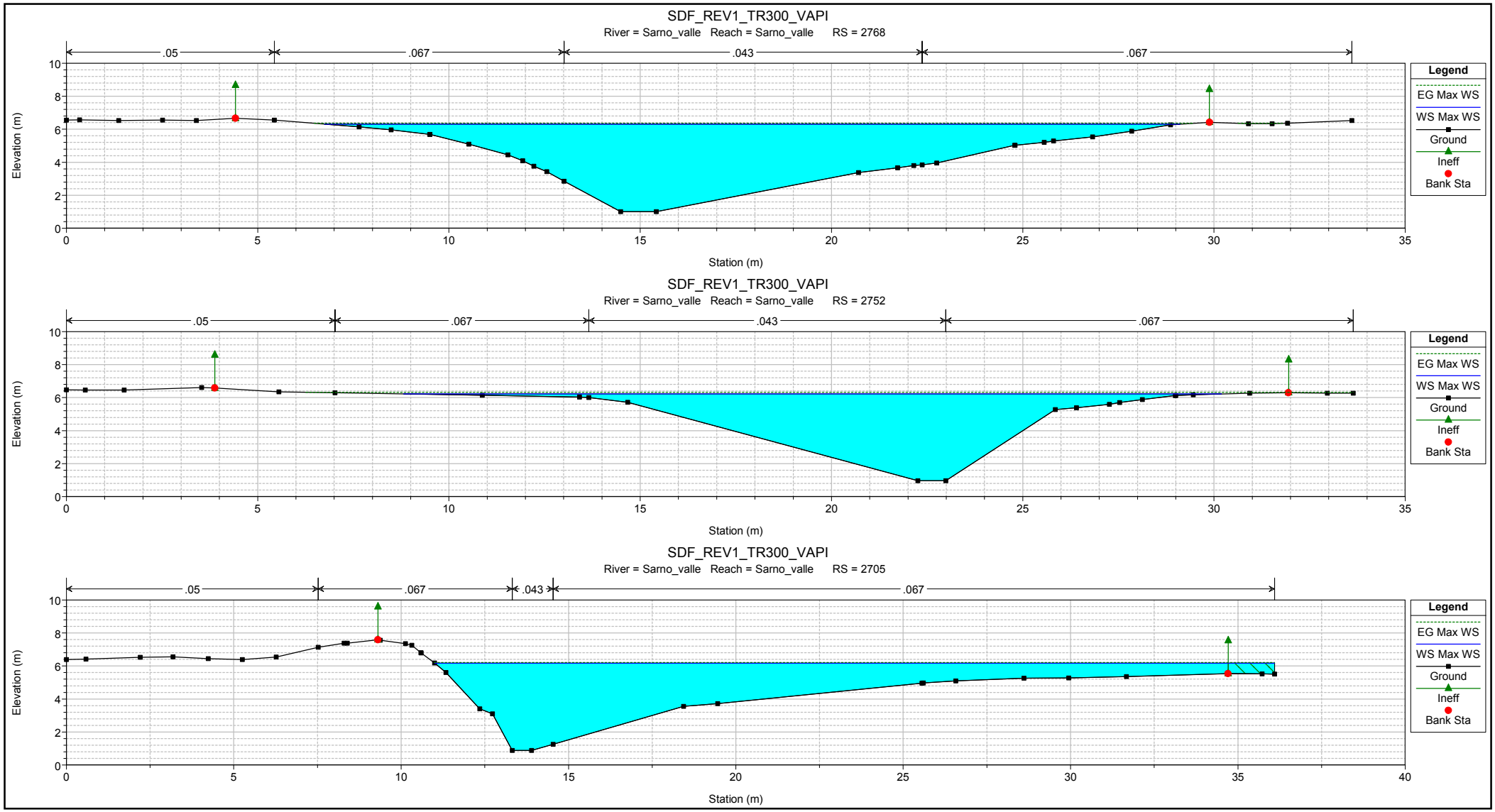

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4463
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4284
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

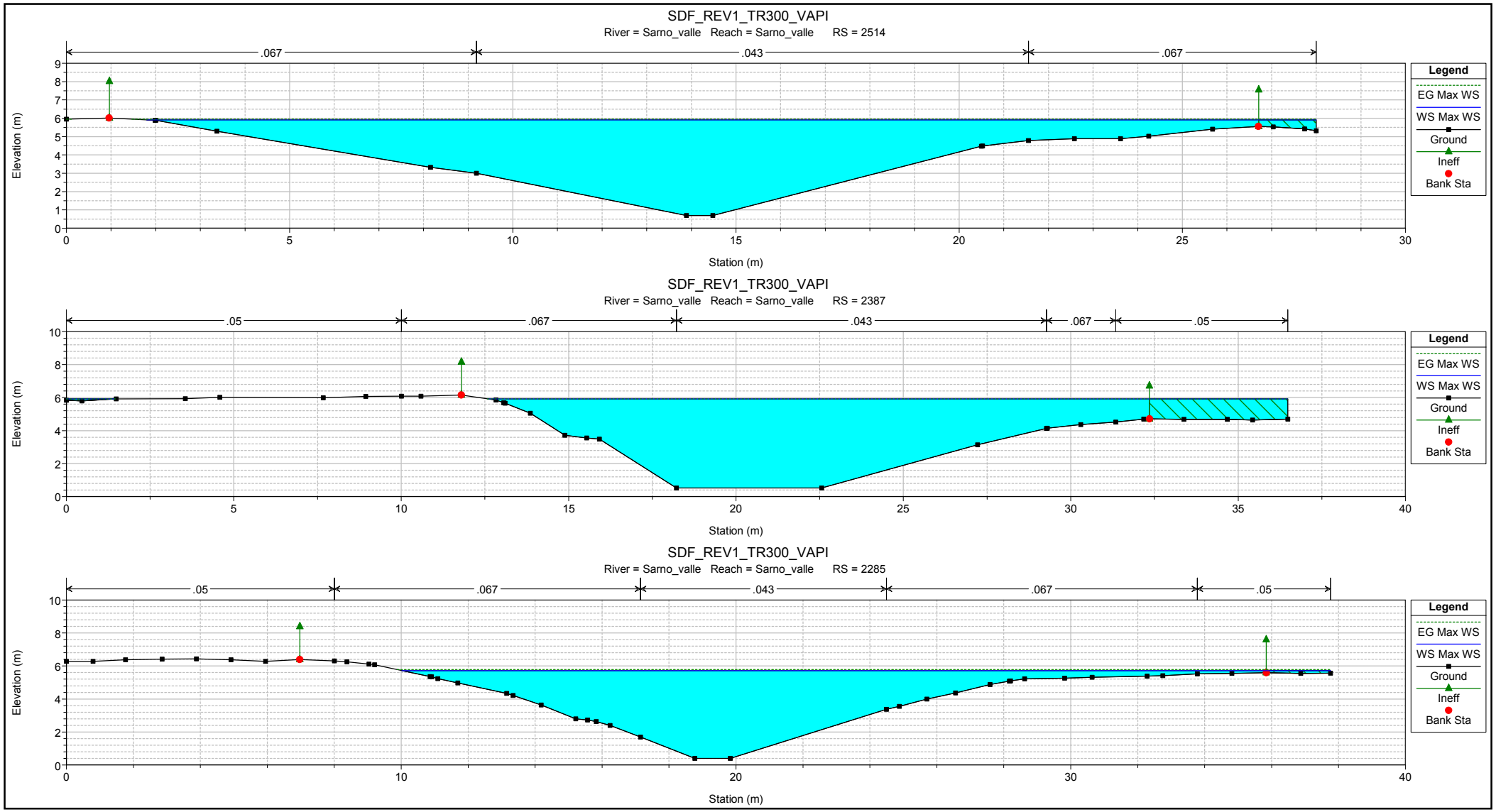

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4061
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3919
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3863
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

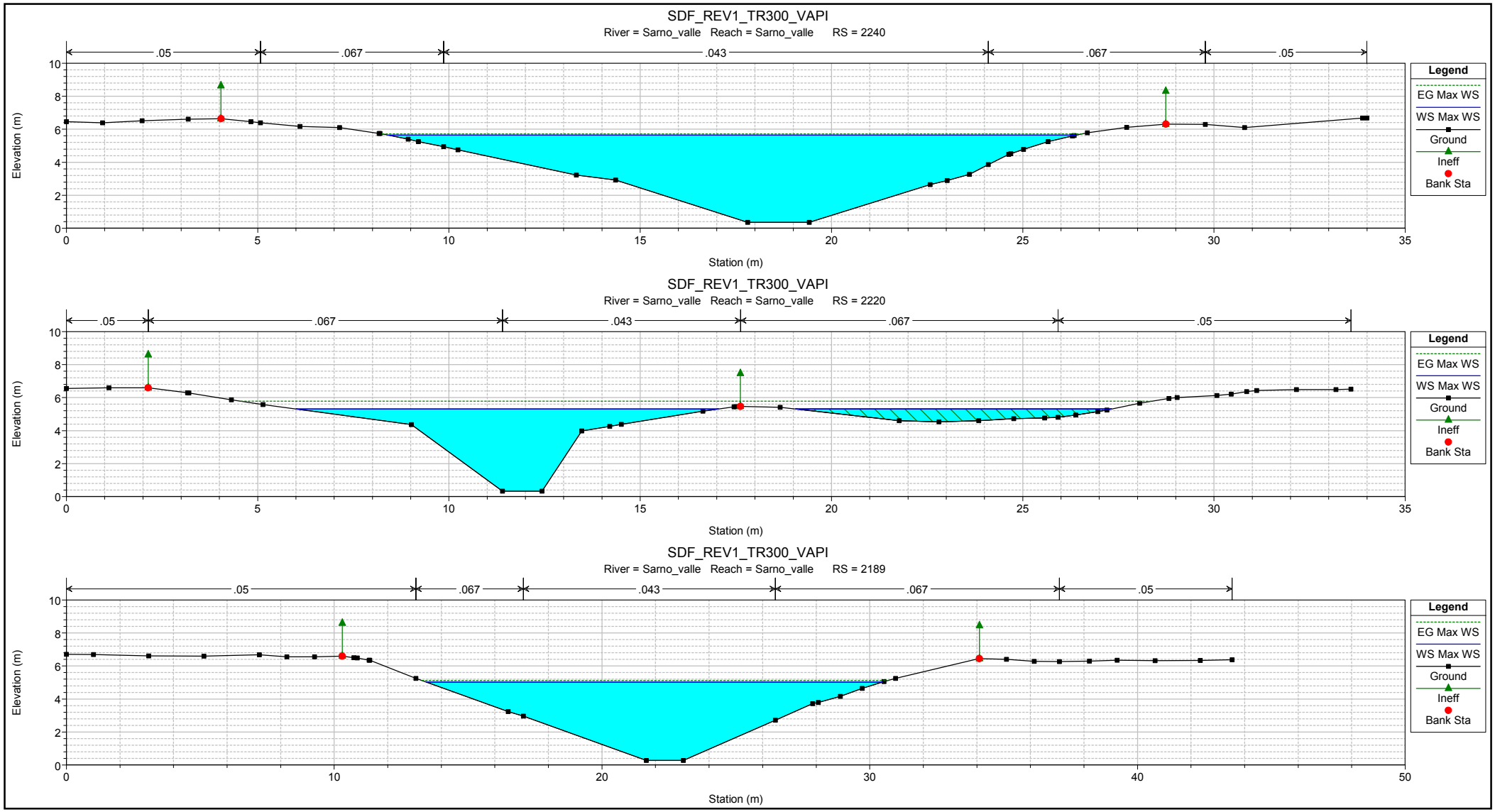

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3844
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3800
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3685
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

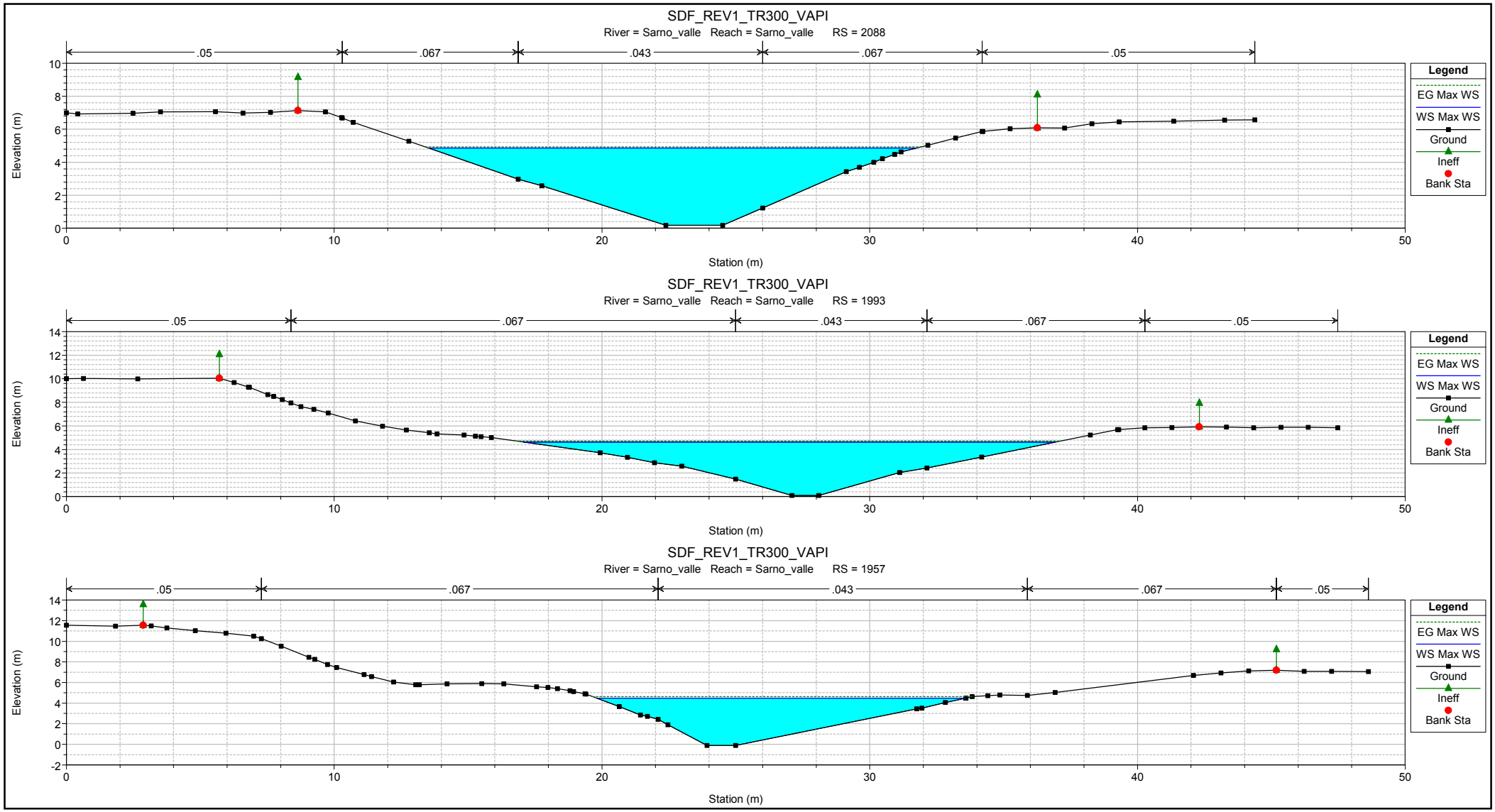

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3499
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3144
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3039
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

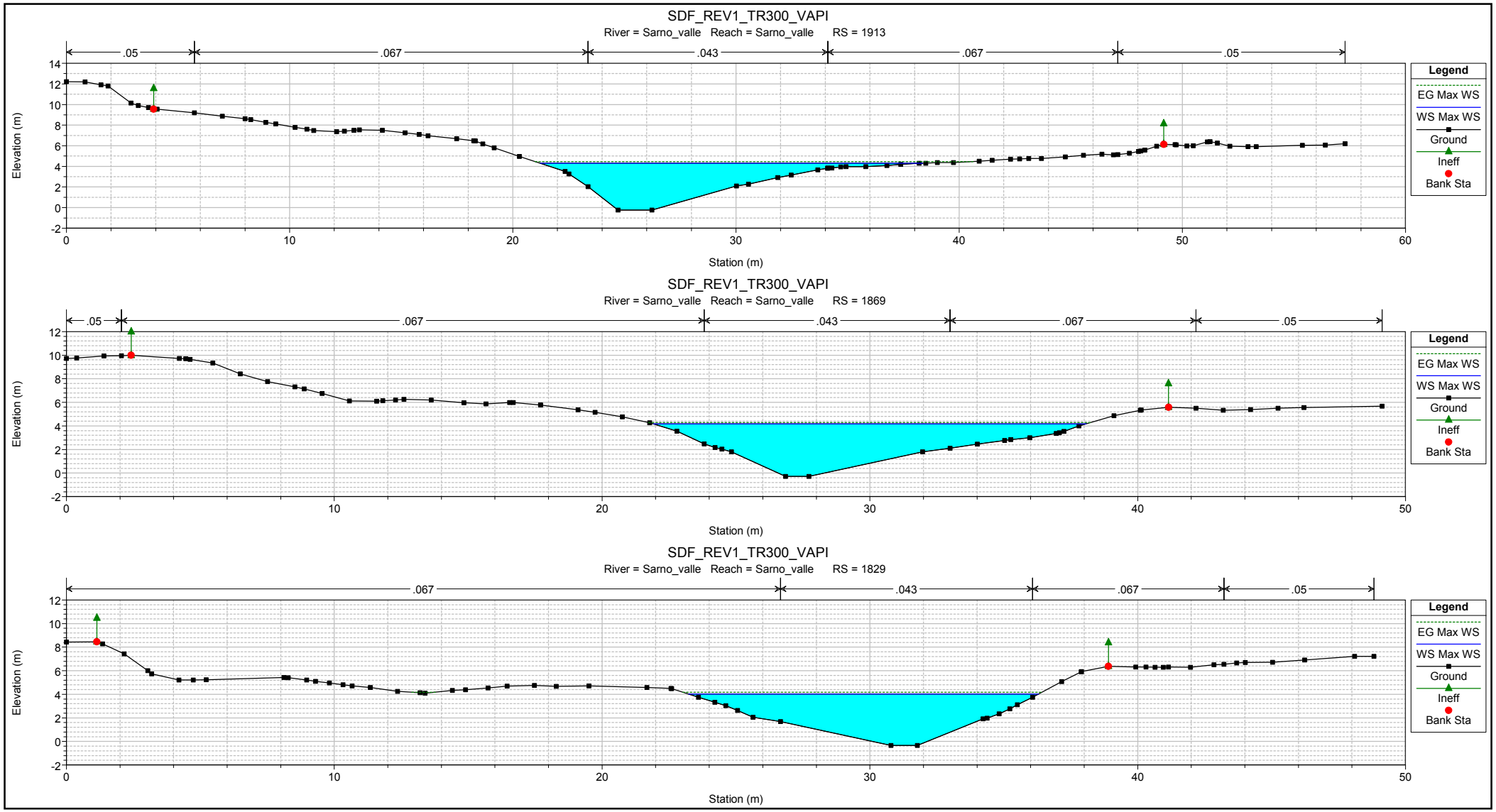

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3015
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2928
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2827
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

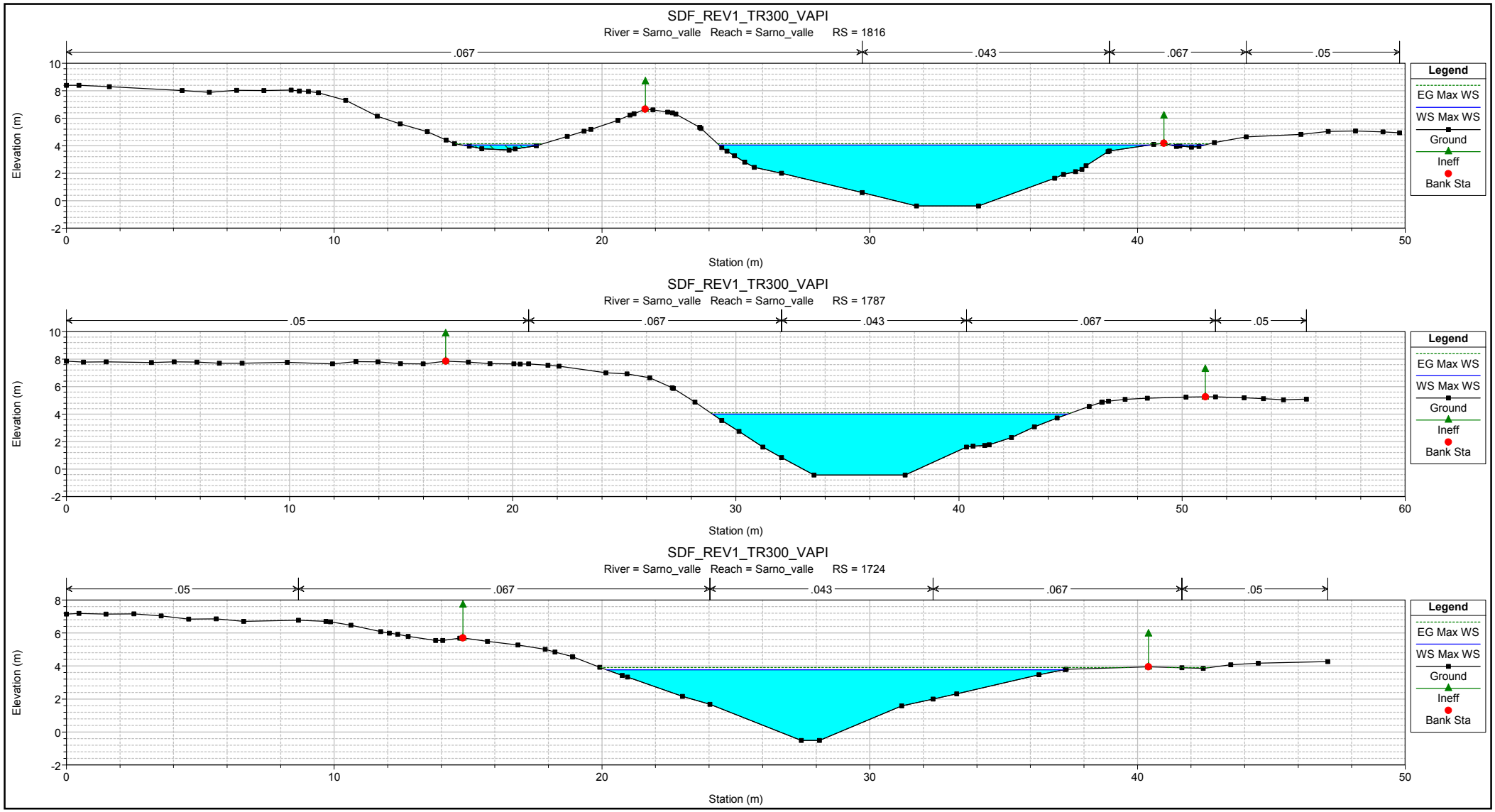

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2768
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2752
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2705
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

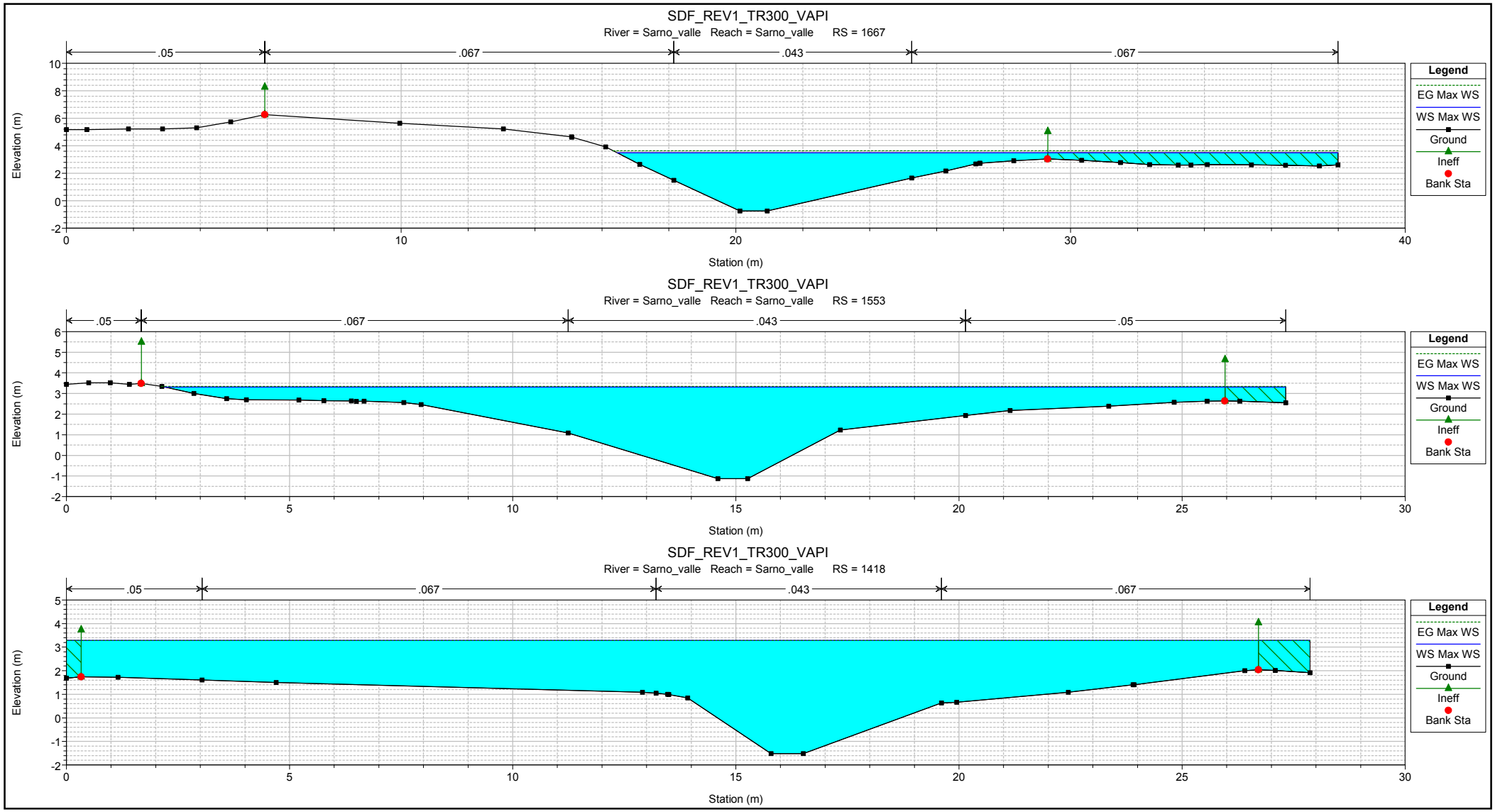

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2514
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2387
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2285
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

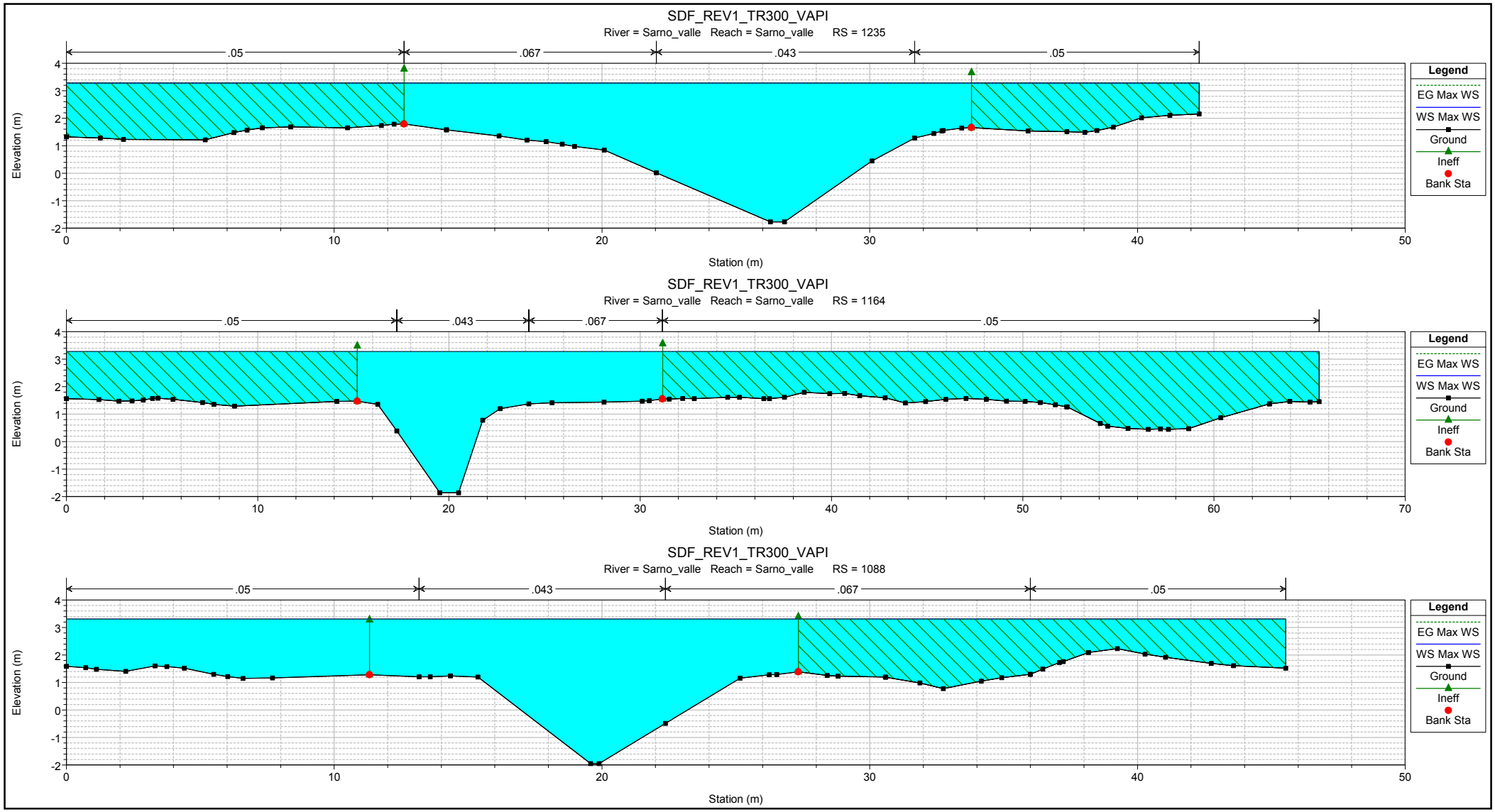

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2240
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2189
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

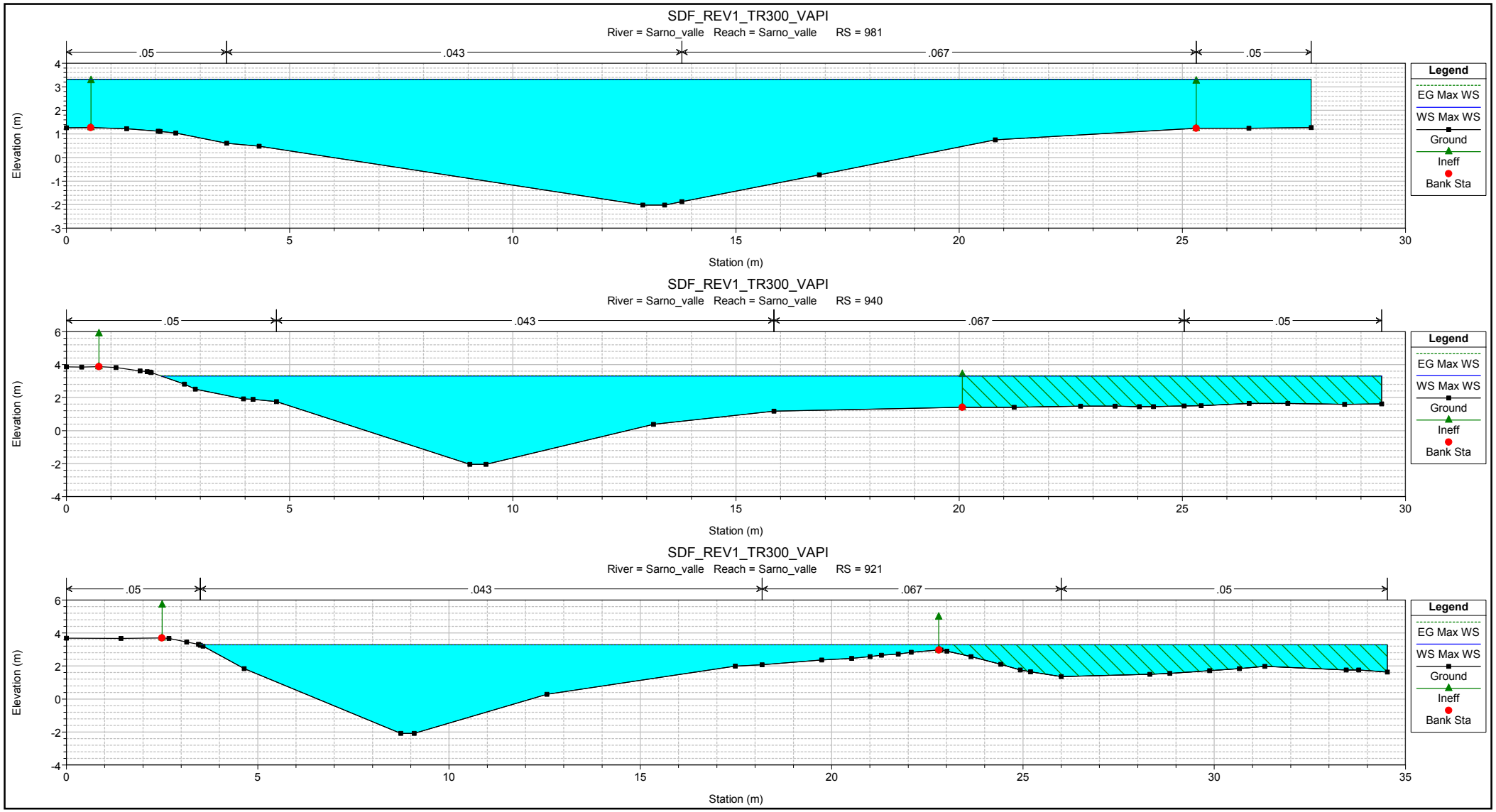

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2088
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1993
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1957
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

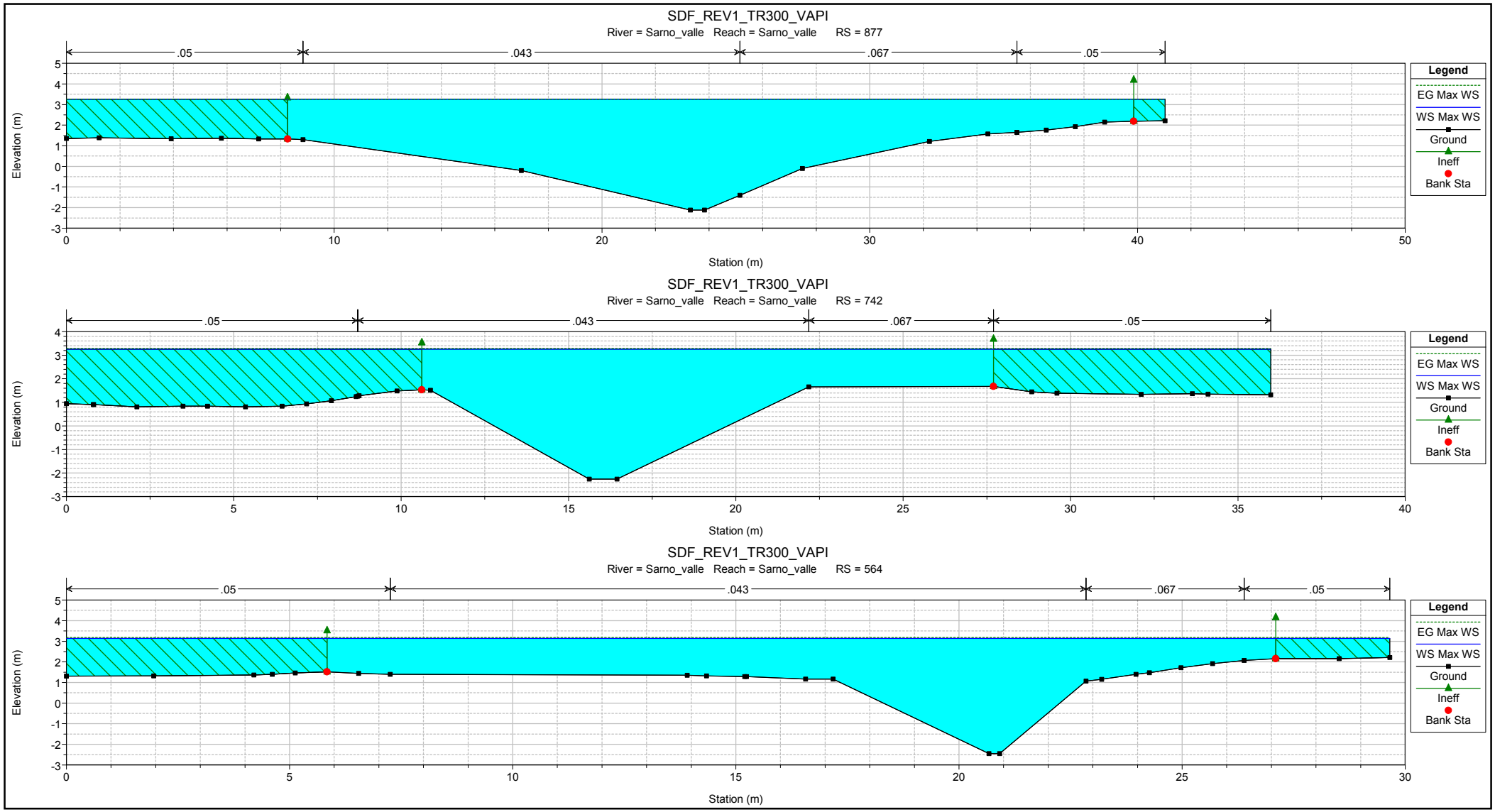

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1913
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1869
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1829
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

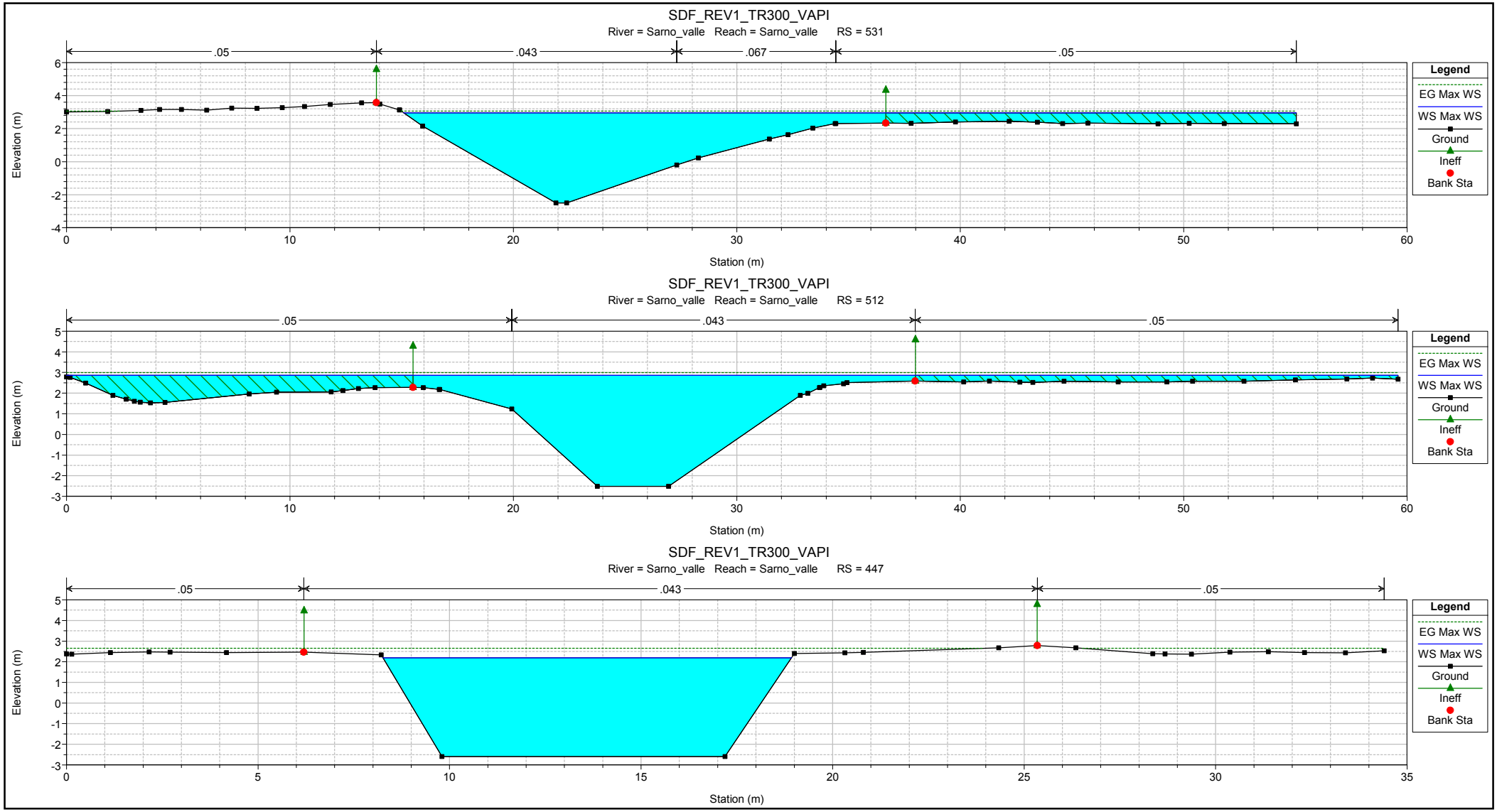

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1816
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1787
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1724
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

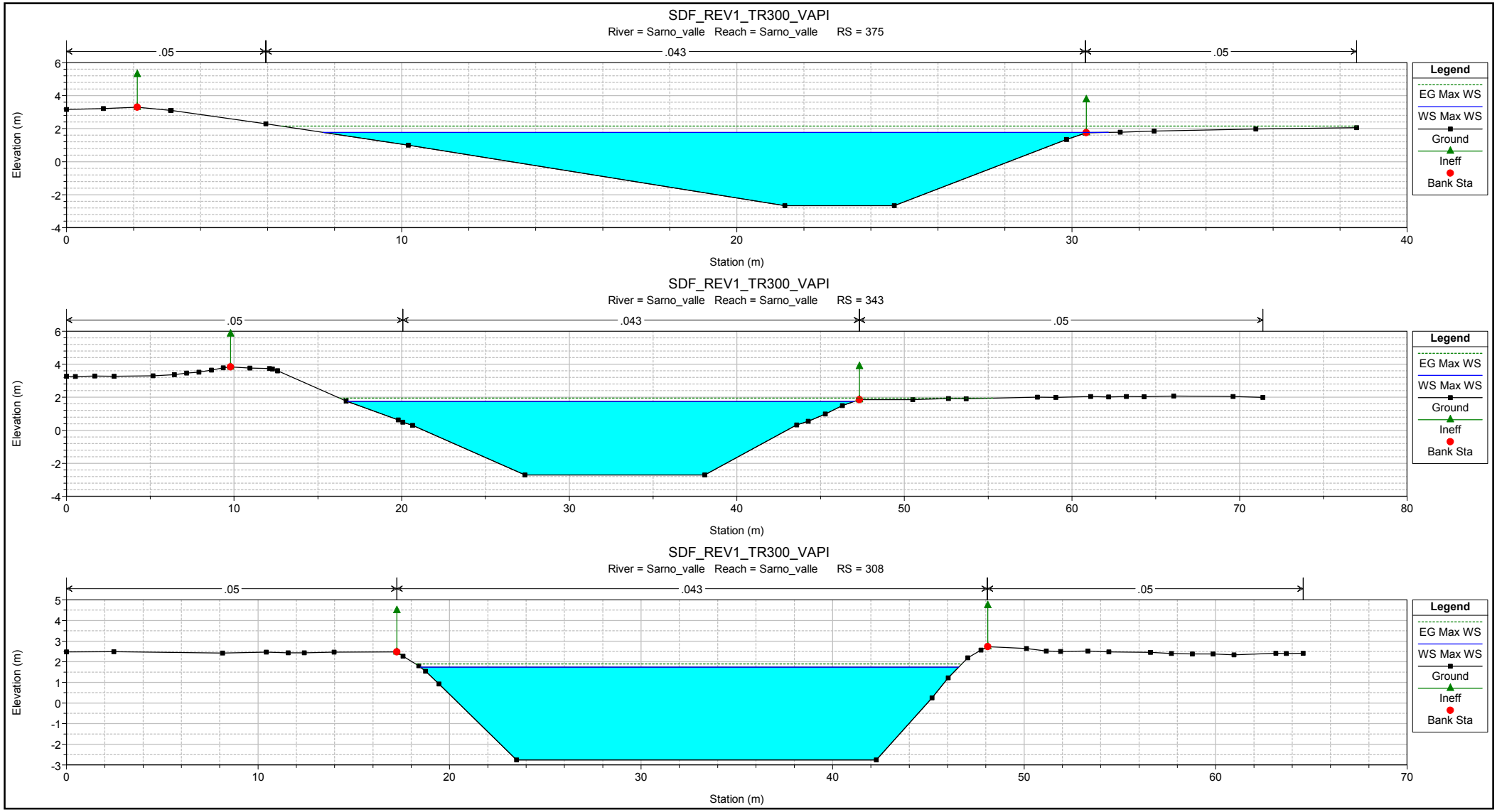

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1667
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1553
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1418
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

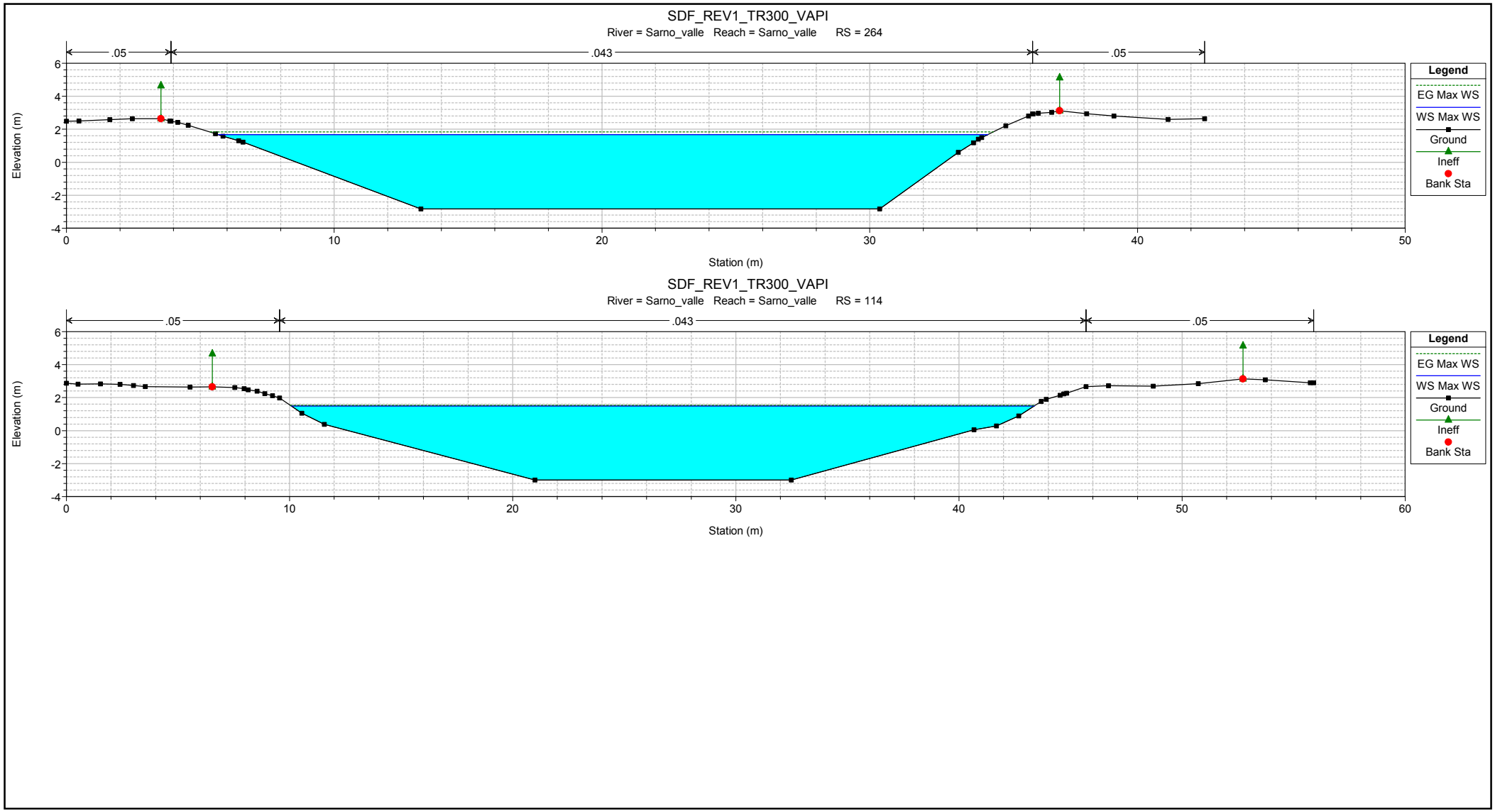

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1235
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1164
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1088
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 981
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 940
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 921
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 877
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 742
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 564
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

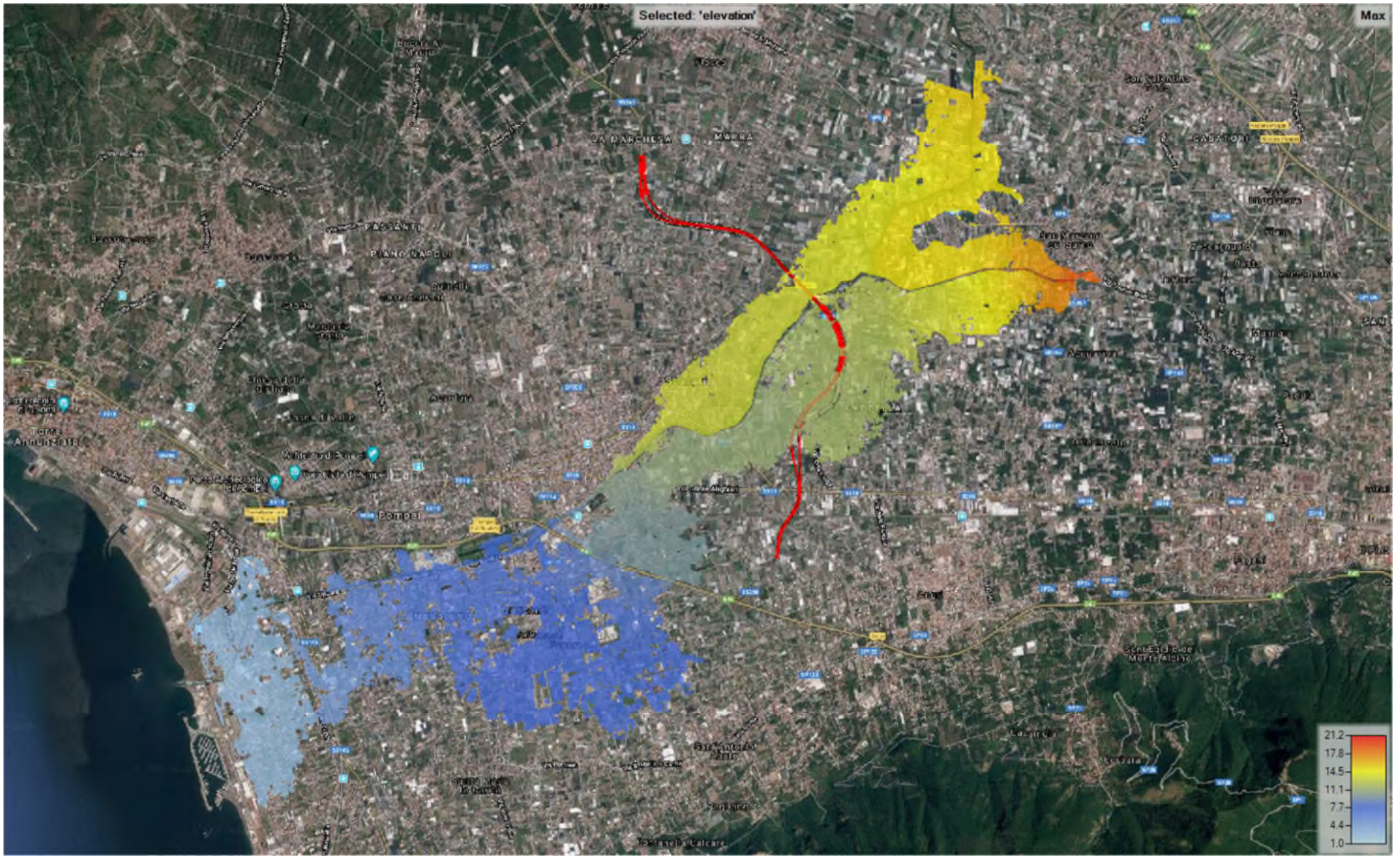

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 531
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 512
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 447
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 375
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 343
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 308
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

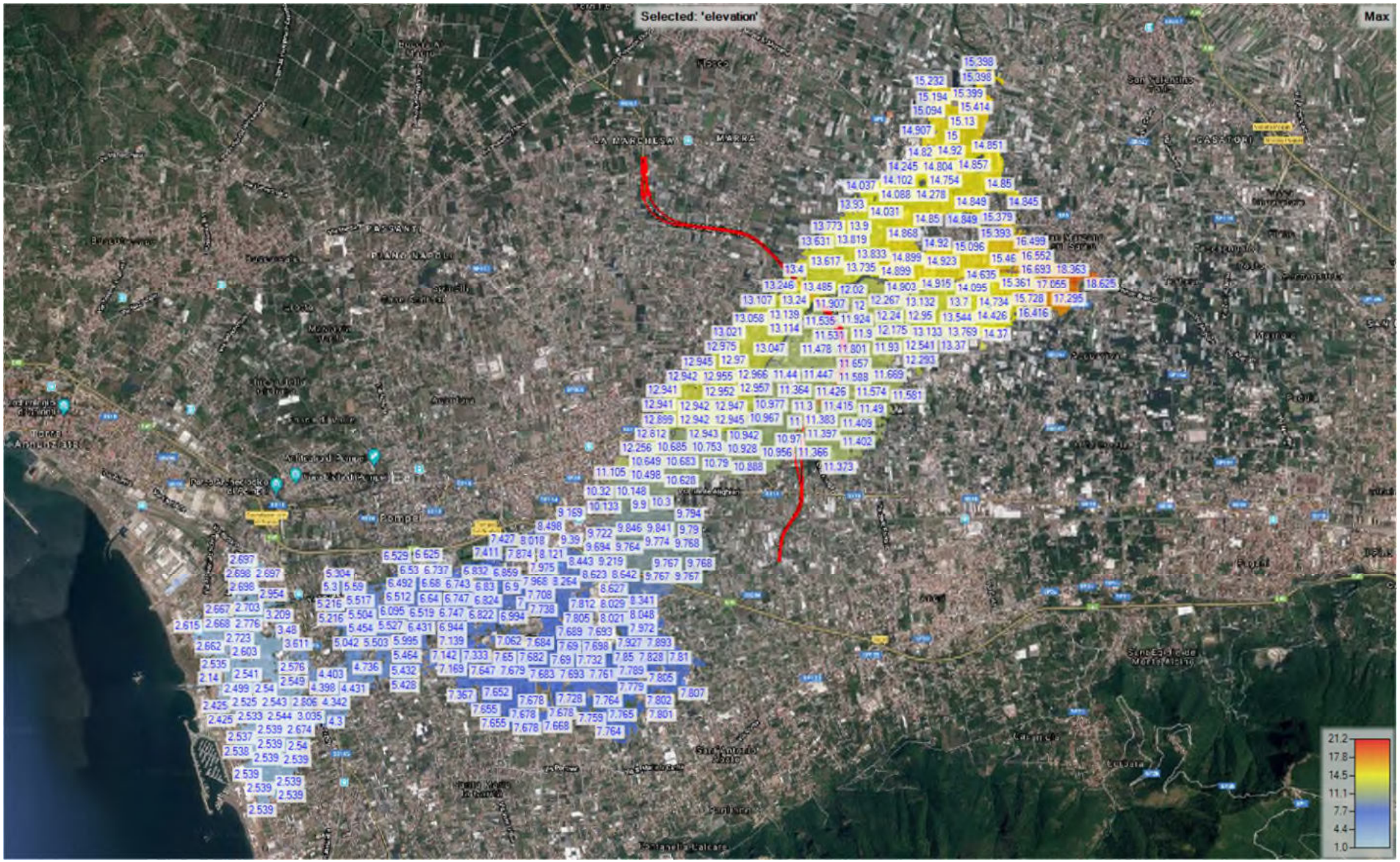

SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 264
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
SDF_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 114
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

2.2 CONFIGURAZIONE DI PROGETTO

2.2.1. Configurazione di progetto Evento TR 30 anni



Inviluppo dei massimi livelli idrici



Inviluppo dei massimi livelli idrici (visualizzazione numerica del livello massimo)

HEC-RAS Plan: PRJ_REV1_TR30_VAPI Profile: Max WS

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	10158	Max WS	11.14	10.79	3.97	14.76	0.04	14.76	0.18	2.44
Sarno_valle	Sarno_valle	10156		Lat Struct							
Sarno_valle	Sarno_valle	10155		Lat Struct							
Sarno_valle	Sarno_valle	10050	Max WS	9.38	10.75	3.25	14.00	0.10	14.01	0.41	1.77
Sarno_valle	Sarno_valle	9965	Max WS	9.17	10.71	2.80	13.51	0.19	13.54	0.73	1.55
Sarno_valle	Sarno_valle	9887	Max WS	9.10	10.68	2.80	13.48	0.09	13.49	0.38	1.74
Sarno_valle	Sarno_valle	9824	Max WS	9.08	10.57	2.89	13.46	0.12	13.47	0.48	1.55
Sarno_valle	Sarno_valle	9751	Max WS	9.07	10.43	3.00	13.43	0.11	13.44	0.46	1.61
Sarno_valle	Sarno_valle	9629	Max WS	9.06	10.36	3.02	13.38	0.12	13.39	0.48	1.56
Sarno_valle	Sarno_valle	9518	Max WS	9.06	10.30	3.05	13.35	0.09	13.35	0.38	1.73
Sarno_valle	Sarno_valle	9435	Max WS	9.06	10.22	3.08	13.30	0.16	13.32	0.66	1.70
Sarno_valle	Sarno_valle	9396	Max WS	9.06	10.18	3.10	13.28	0.12	13.29	0.48	1.58
Sarno_valle	Sarno_valle	9363	Max WS	9.06	10.14	3.11	13.25	0.17	13.28	0.67	1.69
Sarno_valle	Sarno_valle	9318	Max WS	9.05	10.10	3.12	13.22	0.17	13.24	0.68	1.65
Sarno_valle	Sarno_valle	9130	Max WS	9.04	9.90	3.24	13.14	0.08	13.14	0.32	1.71
Sarno_valle	Sarno_valle	8979	Max WS	8.99	9.75	3.33	13.08	0.13	13.10	0.53	1.67
Sarno_valle	Sarno_valle	8789	Max WS	8.92	9.60	3.43	13.03	0.09	13.04	0.36	1.80
Sarno_valle	Sarno_valle	8648	Max WS	8.78	9.45	3.54	12.99	0.11	13.00	0.44	1.65
Sarno_valle	Sarno_valle	8574	Max WS	8.72	9.37	3.60	12.97	0.08	12.98	0.32	1.73
Sarno_valle	Sarno_valle	8311	Max WS	8.56	9.25	3.70	12.95	0.05	12.95	0.22	2.23
Sarno_valle	Sarno_valle	8123	Max WS	8.42	9.08	3.86	12.94	0.04	12.94	0.20	2.32
Sarno_valle	Sarno_valle	7939	Max WS	8.11	8.98	3.95	12.93	0.05	12.93	0.22	2.01
Sarno_valle	Sarno_valle	7710	Max WS	2.15	8.80	4.12	12.92	0.01	12.92	0.05	1.90
Sarno_valle	Sarno_valle	7544	Max WS	-4.97	8.63	4.29	12.92	0.03	12.92	-0.11	1.76
Sarno_valle	Sarno_valle	7437	Max WS	3.43	8.41	4.51	12.92	0.02	12.92	0.07	2.05
Sarno_valle	Sarno_valle	7410	Max WS	12.92	8.41	4.51	12.92	0.06	12.92	0.28	2.14
Sarno_valle	Sarno_valle	7388	Max WS	23.42	8.40	4.49	12.89	0.11	12.91	0.50	2.13
Sarno_valle	Sarno_valle	7351	Max WS	31.65	8.37	4.47	12.84	0.17	12.87	0.73	1.81
Sarno_valle	Sarno_valle	7310	Max WS	30.42	8.32	4.49	12.81	0.17	12.84	0.77	2.16
Sarno_valle	Sarno_valle	7220	Max WS	21.51	8.21	4.57	12.78	0.12	12.80	0.55	2.00
Sarno_valle	Sarno_valle	7143	Max WS	14.35	8.20	4.57	12.77	0.08	12.77	0.34	1.79
Sarno_valle	Sarno_valle	7121	Max WS	13.19	8.20	4.57	12.77	0.08	12.77	0.33	1.88

HEC-RAS Plan: PRJ_REV1_TR30_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	7042	Max WS	6.90	8.18	4.59	12.77	0.03	12.77	0.14	2.29
Sarno_valle	Sarno_valle	6896	Max WS	5.99	8.10	4.67	12.77	0.02	12.77	0.12	2.81
Sarno_valle	Sarno_valle	6751	Max WS	11.13	8.03	4.73	12.76	0.05	12.76	0.23	2.26
Sarno_valle	Sarno_valle	6575	Max WS	32.86	7.96	4.69	12.65	0.15	12.67	0.64	1.82
Sarno_valle	Sarno_valle	6325	Max WS	59.80	7.86	4.22	12.08	0.28	12.17	1.34	2.27
Sarno_valle	Sarno_valle	6158	Max WS	30.25	7.79	4.12	11.91	0.17	11.94	0.81	2.20
Sarno_valle	Sarno_valle	6097	Max WS	35.42	7.34	4.48	11.82	0.19	11.86	0.92	2.46
Sarno_valle	Sarno_valle	6081	Max WS	54.31	7.26	4.37	11.63	0.34	11.77	1.64	2.32
Sarno_valle	Sarno_valle	6076	Max WS	54.41	7.25	4.41	11.66	0.29	11.75	1.35	2.15
Sarno_valle	Sarno_valle	6049	Max WS	36.40	7.21	4.49	11.70	0.22	11.75	0.97	2.02
Sarno_valle	Sarno_valle	5980	Max WS	57.44	7.09	4.06	11.15	0.52	11.41	2.22	1.84
Sarno_valle	Sarno_valle	5917	Max WS	62.07	6.98	3.73	10.71	0.47	10.92	1.99	1.80
Sarno_valle	Sarno_valle	5881	Max WS	107.08	5.85	4.65	10.50	0.29	10.61	1.46	2.52
Sarno_valle	Sarno_valle	5861	Max WS	96.36	5.84	4.38	10.22	0.28	10.31	1.36	2.50
Sarno_valle	Sarno_valle	5812	Max WS	52.74	5.79	4.57	10.36	0.17	10.40	0.96	2.63
Sarno_valle	Sarno_valle	5744	Max WS	52.13	5.71	4.67	10.38	0.21	10.45	1.13	2.89
Sarno_valle	Sarno_valle	5662	Max WS	46.69	5.59	4.62	10.21	0.28	10.30	1.29	2.19
Sarno_valle	Sarno_valle	5604	Max WS	44.53	5.54	4.08	9.62	0.67	10.05	2.89	1.91
Sarno_valle	Sarno_valle	5552	Max WS	42.16	5.35	4.00	9.35	0.34	9.48	1.58	2.22
Sarno_valle	Sarno_valle	5478	Max WS	39.78	5.26	4.01	9.27	0.19	9.31	0.82	1.81
Sarno_valle	Sarno_valle	5415	Max WS	35.26	4.41	4.87	9.28	0.12	9.30	0.68	3.23
Sarno_valle	Sarno_valle	5359	Max WS	53.96	4.40	4.83	9.23	0.17	9.27	0.91	2.85
Sarno_valle	Sarno_valle	5279	Max WS	42.14	4.31	4.86	9.17	0.13	9.20	0.68	2.79
Sarno_valle	Sarno_valle	5251	Max WS	57.06	4.29	4.64	8.93	0.38	9.07	1.64	1.85
Sarno_valle	Sarno_valle	5222	Max WS	52.86	4.21	4.70	8.91	0.19	8.97	1.04	3.06
Sarno_valle	Sarno_valle	5206	Max WS	52.16	4.14	4.77	8.91	0.18	8.95	0.90	2.61
Sarno_valle	Sarno_valle	5199	Max WS	51.71	4.13	4.75	8.88	0.25	8.95	1.16	2.19
Sarno_valle	Sarno_valle	5145	Max WS	47.06	4.11	4.77	8.88	0.14	8.92	0.77	2.96
Sarno_valle	Sarno_valle	5137	Max WS	46.99	4.10	4.76	8.86	0.23	8.92	1.07	2.25
Sarno_valle	Sarno_valle	5131	Max WS	52.49	4.09	4.60	8.69	0.59	8.92	2.13	1.31
Sarno_valle	Sarno_valle	5107	Max WS	55.55	4.07	4.47	8.54	0.23	8.60	1.10	2.26
Sarno_valle	Sarno_valle	5074	Max WS	32.77	4.05	4.52	8.57	0.20	8.60	0.85	1.76

HEC-RAS Plan: PRJ_REV1_TR30_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	5013	Max WS	27.17	4.01	4.47	8.48	0.17	8.51	0.69	1.71
Sarno_valle	Sarno_valle	4982	Max WS	45.86	3.99	4.41	8.40	0.18	8.44	0.85	2.15
Sarno_valle	Sarno_valle	4928	Max WS	47.45	3.87	4.32	8.19	0.33	8.29	1.41	1.90
Sarno_valle	Sarno_valle	4906	Max WS	42.96	3.74	4.44	8.18	0.24	8.24	1.06	1.90
Sarno_valle	Sarno_valle	4785	Max WS	33.55	3.44	4.64	8.08	0.14	8.10	0.66	2.28
Sarno_valle	Sarno_valle	4706	Max WS	45.19	3.38	4.59	7.97	0.20	8.01	0.93	2.17
Sarno_valle	Sarno_valle	4661	Max WS	46.78	3.38	4.54	7.92	0.19	7.95	0.82	1.90
Sarno_valle	Sarno_valle	4625	Max WS	48.17	3.28	4.59	7.87	0.18	7.91	0.94	2.72
Sarno_valle	Sarno_valle	4603	Max WS	46.65	3.27	4.61	7.88	0.16	7.90	0.71	1.98
Sarno_valle	Sarno_valle	4568	Max WS	49.01	3.25	4.62	7.87	0.14	7.89	0.69	2.55
Sarno_valle	Sarno_valle	4531	Max WS	32.99	3.22	4.67	7.89	0.08	7.89	0.43	2.49
Sarno_valle	Sarno_valle	4463	Max WS	46.55	3.20	4.61	7.81	0.19	7.83	0.74	1.62
Sarno_valle	Sarno_valle	4351	Max WS	47.48	3.18	4.37	7.55	0.29	7.62	1.24	1.89
Sarno_valle	Sarno_valle	4284	Max WS	41.73	3.06	4.42	7.48	0.21	7.51	0.81	1.54
Sarno_valle	Sarno_valle	4061	Max WS	44.66	2.68	4.53	7.21	0.21	7.25	0.95	2.02
Sarno_valle	Sarno_valle	3919	Max WS	44.11	2.48	4.50	6.98	0.24	7.04	1.11	2.19
Sarno_valle	Sarno_valle	3863	Max WS	45.10	2.38	4.56	6.94	0.16	6.97	0.82	2.63
Sarno_valle	Sarno_valle	3844	Max WS	45.07	2.37	4.56	6.93	0.14	6.96	0.72	2.57
Sarno_valle	Sarno_valle	3800	Max WS	43.05	2.24	4.69	6.93	0.12	6.96	0.66	3.14
Sarno_valle	Sarno_valle	3685	Max WS	43.79	2.10	4.71	6.81	0.20	6.86	0.92	2.17
Sarno_valle	Sarno_valle	3499	Max WS	29.72	1.84	4.90	6.74	0.11	6.76	0.53	2.36
Sarno_valle	Sarno_valle	3144	Max WS	41.96	1.41	5.06	6.47	0.18	6.50	0.82	2.17
Sarno_valle	Sarno_valle	3039	Max WS	42.68	1.34	5.08	6.42	0.12	6.44	0.66	3.23
Sarno_valle	Sarno_valle	3015	Max WS	42.35	1.32	5.04	6.36	0.21	6.42	1.04	2.46
Sarno_valle	Sarno_valle	2928	Max WS	42.18	1.27	5.00	6.27	0.19	6.32	0.93	2.34
Sarno_valle	Sarno_valle	2827	Max WS	42.09	1.14	4.83	5.97	0.35	6.10	1.58	2.04
Sarno_valle	Sarno_valle	2768	Max WS	42.06	1.00	4.92	5.92	0.20	5.96	0.95	2.30
Sarno_valle	Sarno_valle	2752	Max WS	42.03	0.96	4.88	5.84	0.29	5.94	1.35	2.26
Sarno_valle	Sarno_valle	2705	Max WS	41.43	0.88	4.86	5.74	0.27	5.80	1.09	1.62
Sarno_valle	Sarno_valle	2514	Max WS	38.93	0.70	4.66	5.36	0.19	5.40	0.86	2.04
Sarno_valle	Sarno_valle	2387	Max WS	32.59	0.52	4.79	5.31	0.12	5.33	0.61	2.84
Sarno_valle	Sarno_valle	2285	Max WS	41.90	0.40	4.76	5.16	0.22	5.22	1.05	2.31

HEC-RAS Plan: PRJ_REV1_TR30_VAPI Profile: Max WS (Continued)

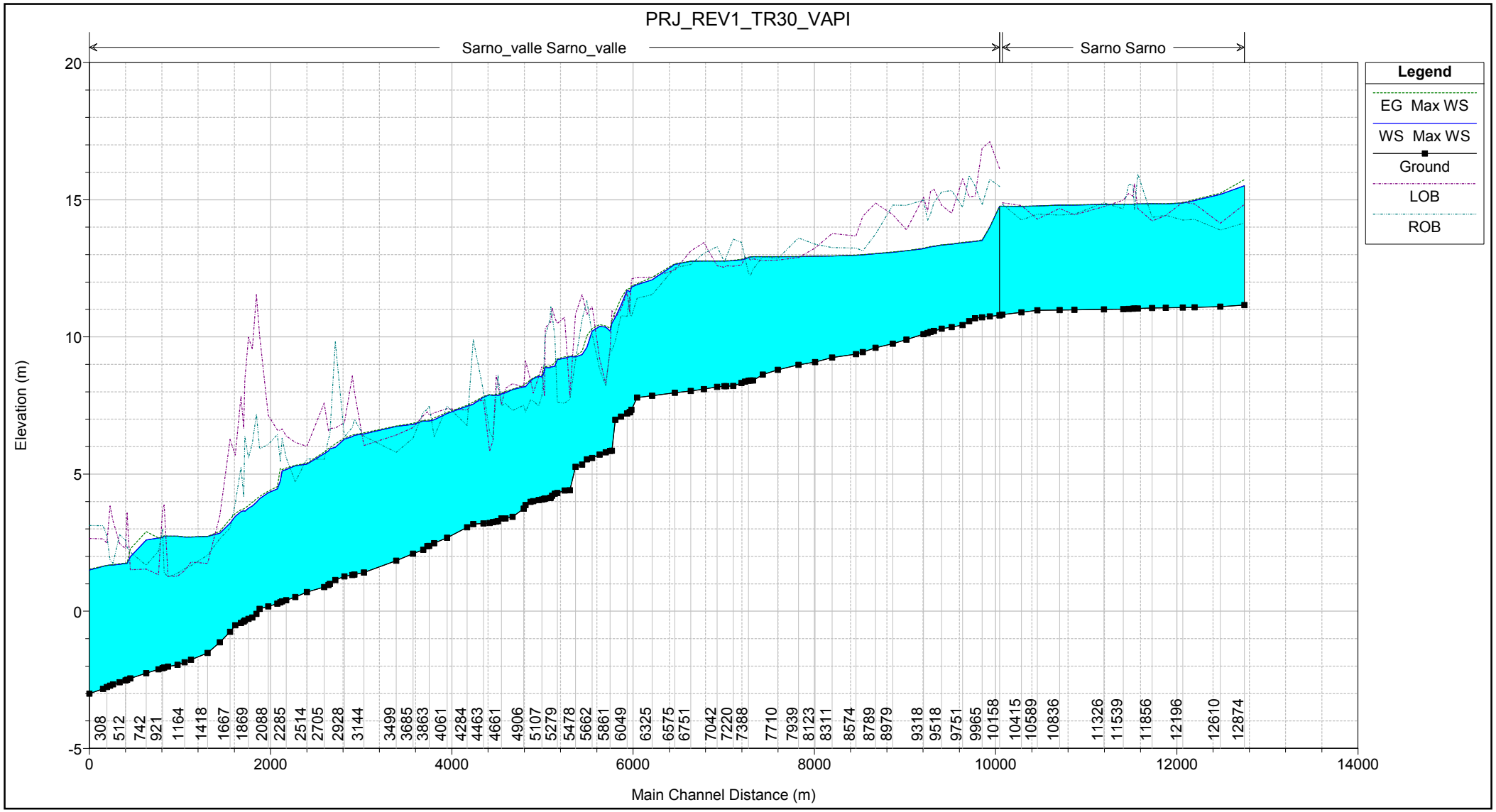
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	2240	Max WS	41.90	0.36	4.75	5.11	0.21	5.17	1.03	2.53
Sarno_valle	Sarno_valle	2220	Max WS	41.90	0.33	4.42	4.75	0.71	5.21	3.00	1.82
Sarno_valle	Sarno_valle	2189	Max WS	41.90	0.28	4.18	4.46	0.27	4.54	1.25	2.23
Sarno_valle	Sarno_valle	2088	Max WS	41.90	0.18	4.13	4.32	0.23	4.38	1.11	2.33
Sarno_valle	Sarno_valle	1993	Max WS	41.90	0.09	4.01	4.10	0.30	4.18	1.29	1.91
Sarno_valle	Sarno_valle	1957	Max WS	41.90	-0.10	4.07	3.97	0.34	4.09	1.56	2.17
Sarno_valle	Sarno_valle	1913	Max WS	41.90	-0.23	4.07	3.84	0.36	3.97	1.62	2.10
Sarno_valle	Sarno_valle	1869	Max WS	41.90	-0.28	4.04	3.76	0.30	3.85	1.36	2.05
Sarno_valle	Sarno_valle	1829	Max WS	41.89	-0.34	3.98	3.64	0.31	3.76	1.49	2.30
Sarno_valle	Sarno_valle	1816	Max WS	41.89	-0.38	4.05	3.66	0.23	3.73	1.13	2.55
Sarno_valle	Sarno_valle	1787	Max WS	41.85	-0.43	4.07	3.64	0.21	3.69	1.08	2.58
Sarno_valle	Sarno_valle	1724	Max WS	41.72	-0.51	3.97	3.46	0.33	3.56	1.42	1.89
Sarno_valle	Sarno_valle	1667	Max WS	41.47	-0.75	3.96	3.21	0.38	3.36	1.67	1.96
Sarno_valle	Sarno_valle	1553	Max WS	33.48	-1.13	3.97	2.84	0.33	2.91	1.16	1.27
Sarno_valle	Sarno_valle	1418	Max WS	11.57	-1.52	4.25	2.73	0.06	2.73	0.25	1.79
Sarno_valle	Sarno_valle	1235	Max WS	15.66	-1.77	4.48	2.71	0.07	2.71	0.32	2.31
Sarno_valle	Sarno_valle	1164	Max WS	12.44	-1.86	4.56	2.70	0.09	2.71	0.39	2.01
Sarno_valle	Sarno_valle	1088	Max WS	5.89	-1.95	4.68	2.73	0.03	2.74	0.15	2.52
Sarno_valle	Sarno_valle	981	Max WS	0.59	-2.02	4.76	2.74	0.00	2.74	0.01	2.91
Sarno_valle	Sarno_valle	940	Max WS	19.78	-2.05	4.79	2.74	0.10	2.75	0.49	2.32
Sarno_valle	Sarno_valle	921	Max WS	16.82	-2.08	4.77	2.69	0.11	2.70	0.48	2.00
Sarno_valle	Sarno_valle	877	Max WS	4.99	-2.12	4.79	2.67	0.01	2.67	0.07	2.40
Sarno_valle	Sarno_valle	742	Max WS	-98.70	-2.26	4.85	2.59	0.51	2.90	-2.46	2.35
Sarno_valle	Sarno_valle	564	Max WS	57.28	-2.45	4.43	1.98	0.70	2.27	2.38	1.19
Sarno_valle	Sarno_valle	531	Max WS	-21.93	-2.50	4.24	1.74	0.14	1.76	-0.65	2.09
Sarno_valle	Sarno_valle	512	Max WS	-22.31	-2.52	4.26	1.74	0.13	1.76	-0.63	2.44
Sarno_valle	Sarno_valle	447	Max WS	-26.33	-2.59	4.30	1.71	0.11	1.73	-0.69	3.69
Sarno_valle	Sarno_valle	375	Max WS	-30.58	-2.66	4.35	1.69	0.11	1.70	-0.55	2.48
Sarno_valle	Sarno_valle	343	Max WS	-30.81	-2.71	4.39	1.68	0.07	1.69	-0.35	2.91
Sarno_valle	Sarno_valle	308	Max WS	-37.27	-2.76	4.42	1.66	0.06	1.67	-0.36	3.70
Sarno_valle	Sarno_valle	264	Max WS	-38.78	-2.83	4.46	1.63	0.06	1.64	-0.38	3.55
Sarno_valle	Sarno_valle	114	Max WS	-89.90	-3.00	4.50	1.50	0.15	1.54	-0.85	3.18

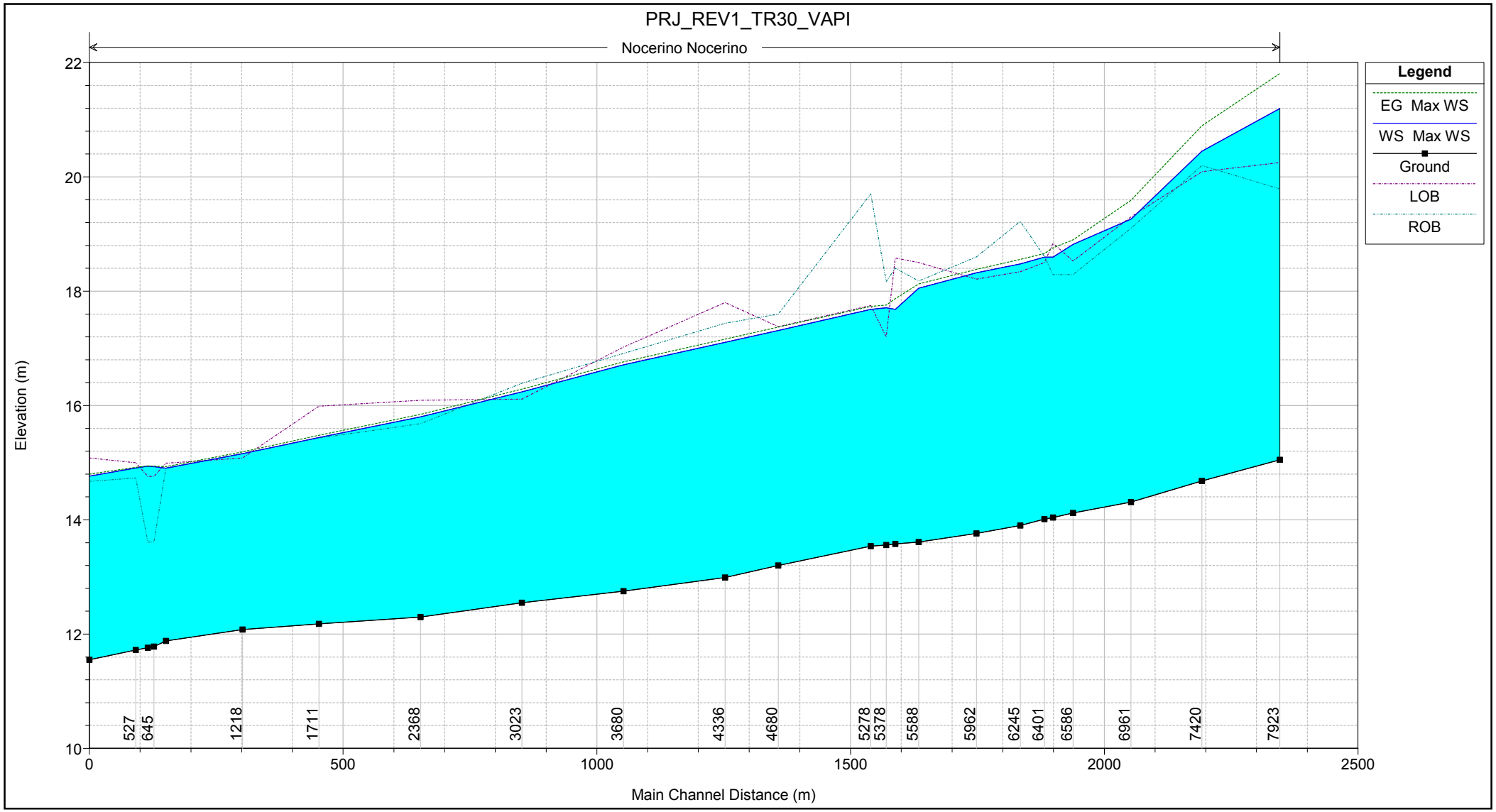
HEC-RAS Plan: PRJ_REV1_TR30_VAPI Profile: Max WS (Continued)

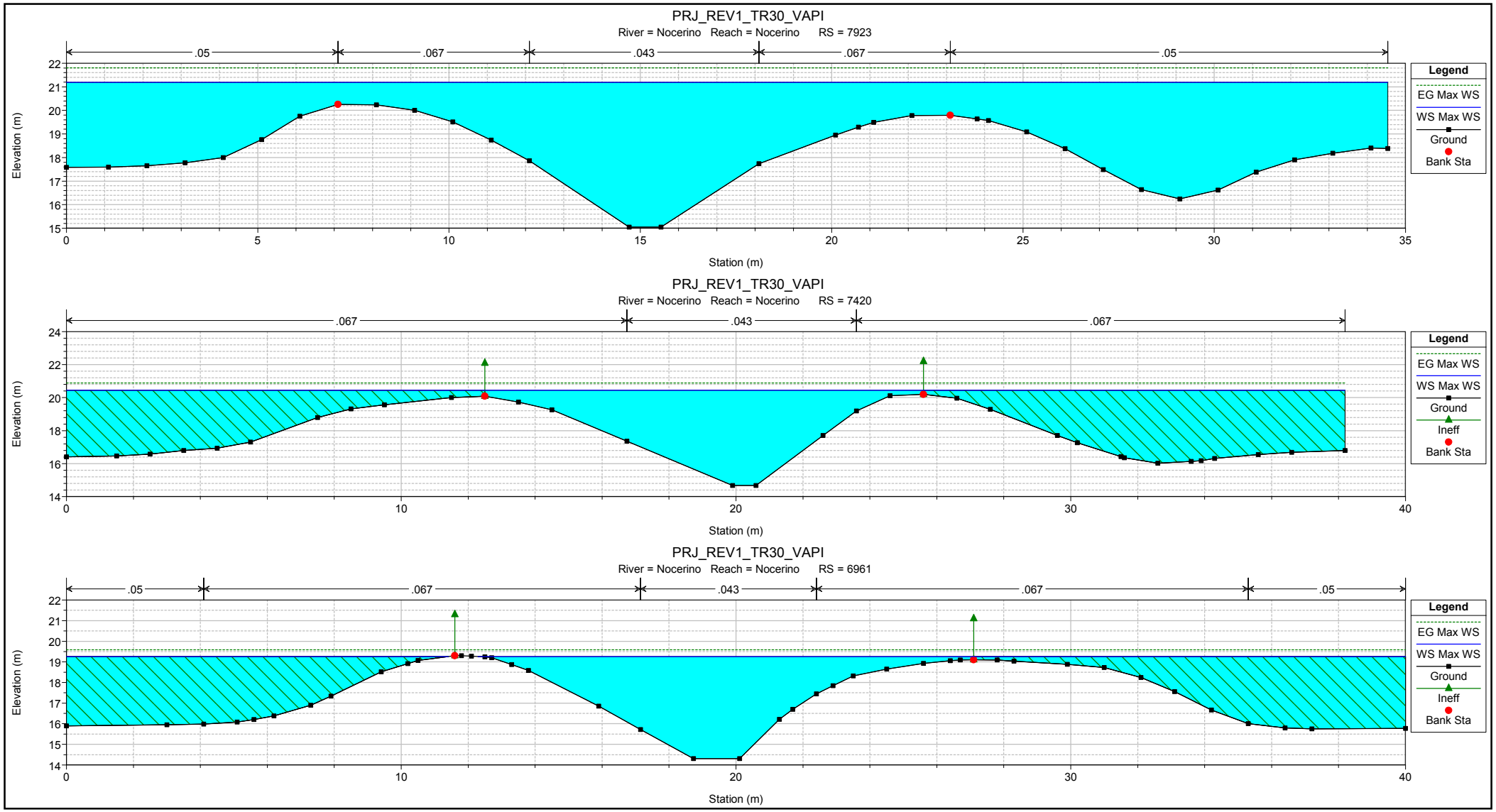
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno	Sarno	12874	Max WS	195.38	11.16	4.35	15.51	0.46	15.74	2.31	1.88
Sarno	Sarno	12873		Lat Struct							
Sarno	Sarno	12872		Lat Struct							
Sarno	Sarno	12610	Max WS	50.13	11.10	4.10	15.20	0.19	15.24	0.90	2.25
Sarno	Sarno	12325	Max WS	45.37	11.08	3.89	14.97	0.19	15.01	0.88	2.12
Sarno	Sarno	12196	Max WS	26.14	11.07	3.81	14.88	0.08	14.89	0.38	2.57
Sarno	Sarno	12006	Max WS	22.52	11.06	3.79	14.85	0.06	14.86	0.30	2.20
Sarno	Sarno	11856	Max WS	7.19	11.05	3.80	14.85	0.03	14.85	0.14	1.95
Sarno	Sarno	11698	Max WS	11.56	11.04	3.81	14.85	0.04	14.85	0.19	2.30
Sarno	Sarno	11660	Max WS	11.15	11.03	3.81	14.84	0.06	14.84	0.23	1.67
Sarno	Sarno	11647	Max WS	10.97	11.02	3.81	14.84	0.07	14.84	0.27	1.71
Sarno	Sarno	11598	Max WS	10.80	11.02	3.82	14.84	0.04	14.84	0.18	2.64
Sarno	Sarno	11539	Max WS	10.32	11.01	3.83	14.84	0.03	14.84	0.15	2.09
Sarno	Sarno	11326	Max WS	6.75	11.00	3.83	14.83	0.02	14.84	0.10	2.15
Sarno	Sarno	11000	Max WS	26.74	10.99	3.82	14.81	0.07	14.81	0.32	2.34
Sarno	Sarno	10836	Max WS	14.54	10.98	3.82	14.80	0.05	14.81	0.23	2.11
Sarno	Sarno	10589	Max WS	30.78	10.97	3.80	14.77	0.07	14.78	0.36	2.37
Sarno	Sarno	10415	Max WS	19.59	10.90	3.86	14.76	0.09	14.76	0.36	1.58
Sarno	Sarno	10205	Max WS	-4.37	10.81	3.95	14.76	0.02	14.76	-0.08	1.76

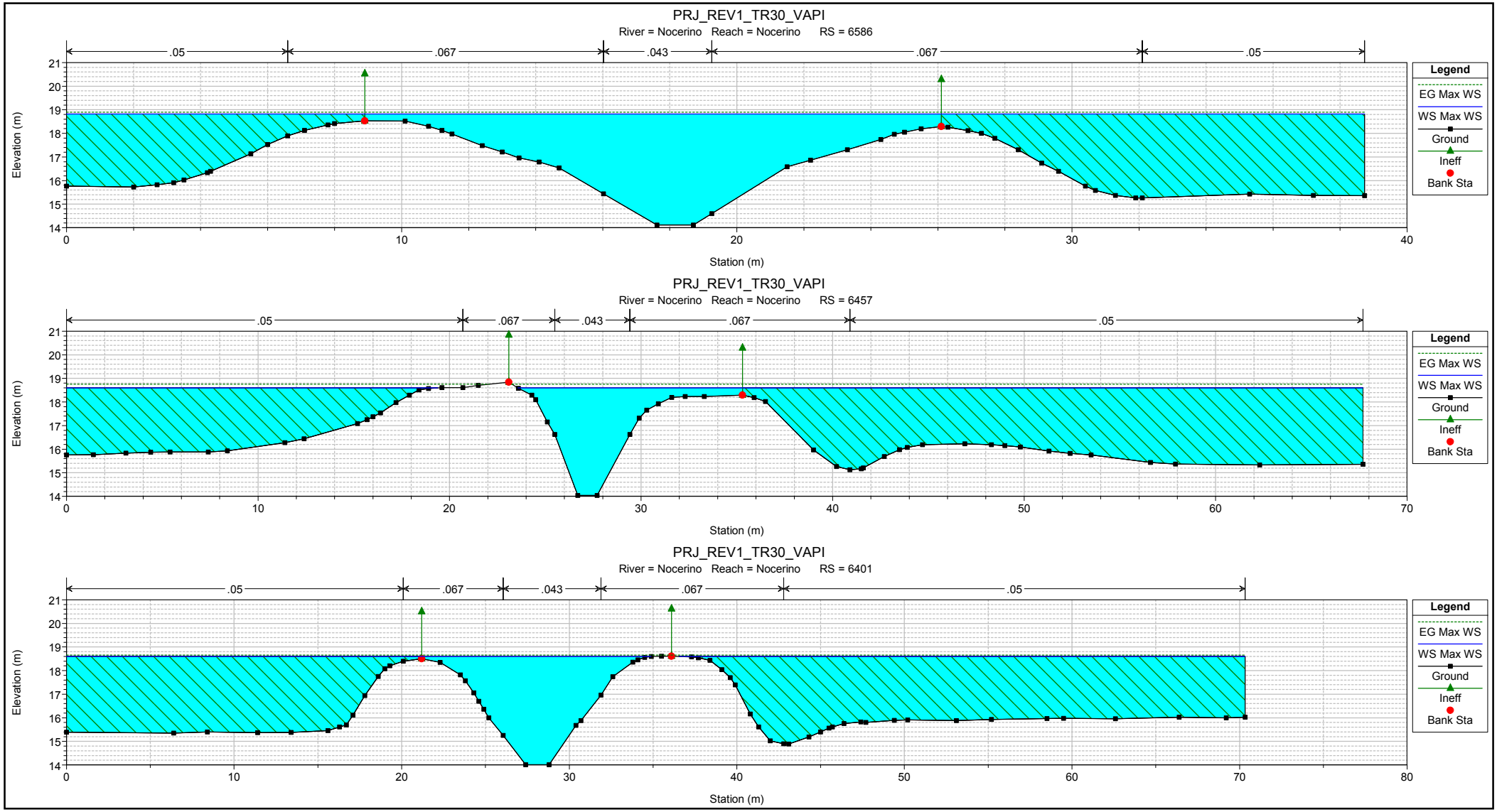
HEC-RAS Plan: PRJ_REV1_TR30_VAPI River: Nocerino Reach: Nocerino Profile: Max WS

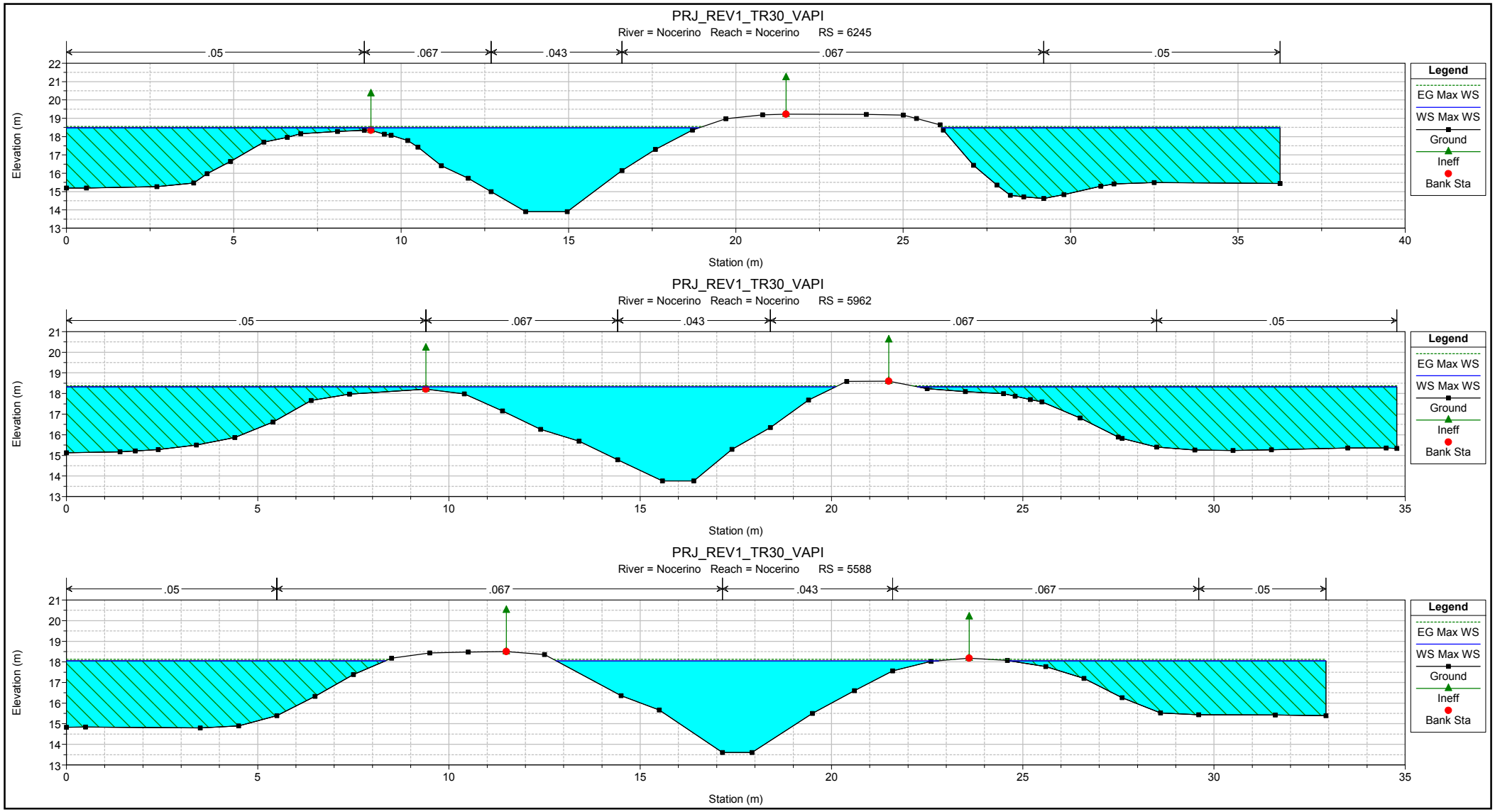
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
			(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Nocerino	7923	Max WS	368.51	15.05	6.14	21.19	0.62	21.81	3.37	3.10
Nocerino	7922		Lat Struct							
Nocerino	7921		Lat Struct							
Nocerino	7420	Max WS	106.05	14.68	5.77	20.45	0.57	20.89	2.95	2.74
Nocerino	6961	Max WS	79.84	14.31	4.95	19.26	0.56	19.59	2.54	2.13
Nocerino	6586	Max WS	46.81	14.12	4.70	18.82	0.27	18.90	1.25	2.17
Nocerino	6457	Max WS	33.67	14.04	4.56	18.60	0.45	18.76	1.78	1.62
Nocerino	6401	Max WS	32.30	14.01	4.59	18.60	0.24	18.66	1.11	2.12
Nocerino	6245	Max WS	30.25	13.90	4.58	18.48	0.26	18.56	1.27	2.43
Nocerino	5962	Max WS	26.22	13.76	4.56	18.32	0.23	18.38	1.08	2.28
Nocerino	5588	Max WS	25.84	13.61	4.44	18.05	0.26	18.13	1.20	2.15
Nocerino	5437	Max WS	25.84	13.58	4.10	17.68	0.45	17.87	1.93	1.90
Nocerino	5378	Max WS	24.79	13.56	4.15	17.71	0.21	17.76	0.97	2.24
Nocerino	5278	Max WS	20.45	13.54	4.14	17.68	0.22	17.73	0.98	2.07
Nocerino	4680	Max WS	20.51	13.20	4.11	17.31	0.26	17.37	1.09	1.85
Nocerino	4336	Max WS	20.34	12.99	4.11	17.10	0.22	17.16	1.05	2.33
Nocerino	3680	Max WS	20.32	12.75	3.96	16.71	0.24	16.76	0.98	1.73
Nocerino	3023	Max WS	18.89	12.55	3.69	16.24	0.25	16.29	1.00	1.56
Nocerino	2368	Max WS	16.67	12.30	3.50	15.80	0.24	15.84	0.92	1.51
Nocerino	1711	Max WS	13.60	12.18	3.26	15.44	0.25	15.48	0.88	1.29
Nocerino	1218	Max WS	13.33	12.08	3.08	15.16	0.24	15.19	0.80	1.17
Nocerino	723	Max WS	12.92	11.88	3.10	14.90	0.20	14.93	0.73	1.34
Nocerino	645	Max WS	11.36	11.78	3.15	14.93	0.09	14.94	0.37	1.87
Nocerino	605	Max WS	9.76	11.76	3.18	14.94	0.07	14.94	0.32	1.93
Nocerino	527	Max WS	7.78	11.72	3.19	14.91	0.14	14.92	0.48	1.16
Nocerino	227	Max WS	15.51	11.55	3.21	14.76	0.24	14.80	0.87	1.38

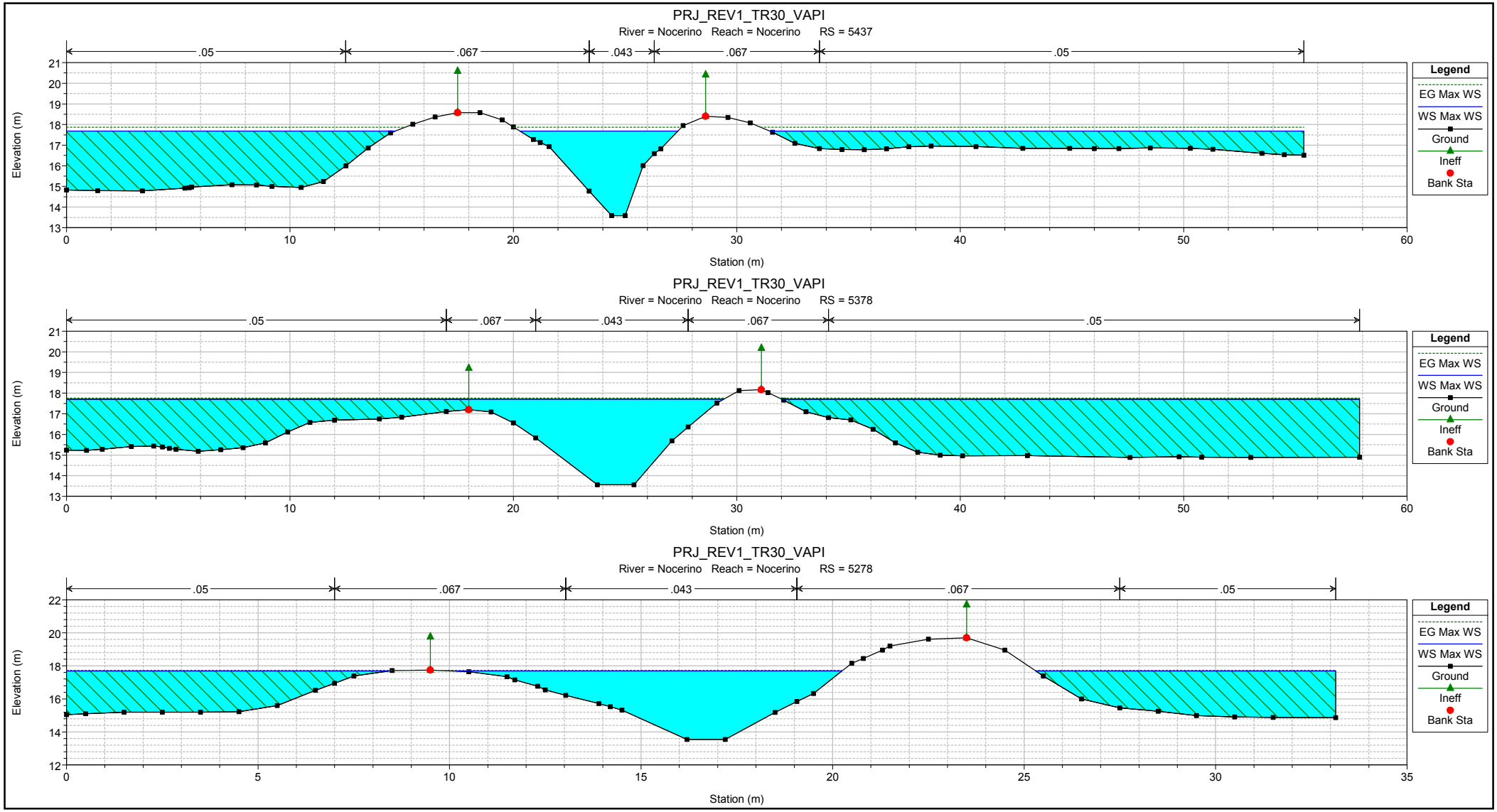

PRJ_REV1_TR30_VAPI
Sarno_valle Sarno_valle
Sarno Sarno
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
20
15
10
5
0
-5
0
2000
4000
6000
8000
10000
12000
14000
308
512
742
921
1164
1418
1667
1869
2088
2285
2514
2705
2928
3144
3499
3685
3863
4061
4284
4463
4661
4906
5107
5279
5478
5662
5861
6049
6325
6575
6751
7042
7220
7388
7710
7939
8123
8311
8574
8789
8979
9318
9518
9751
9965
10158
10415
10589
10836
11326
11539
11856
12196
12610
12874

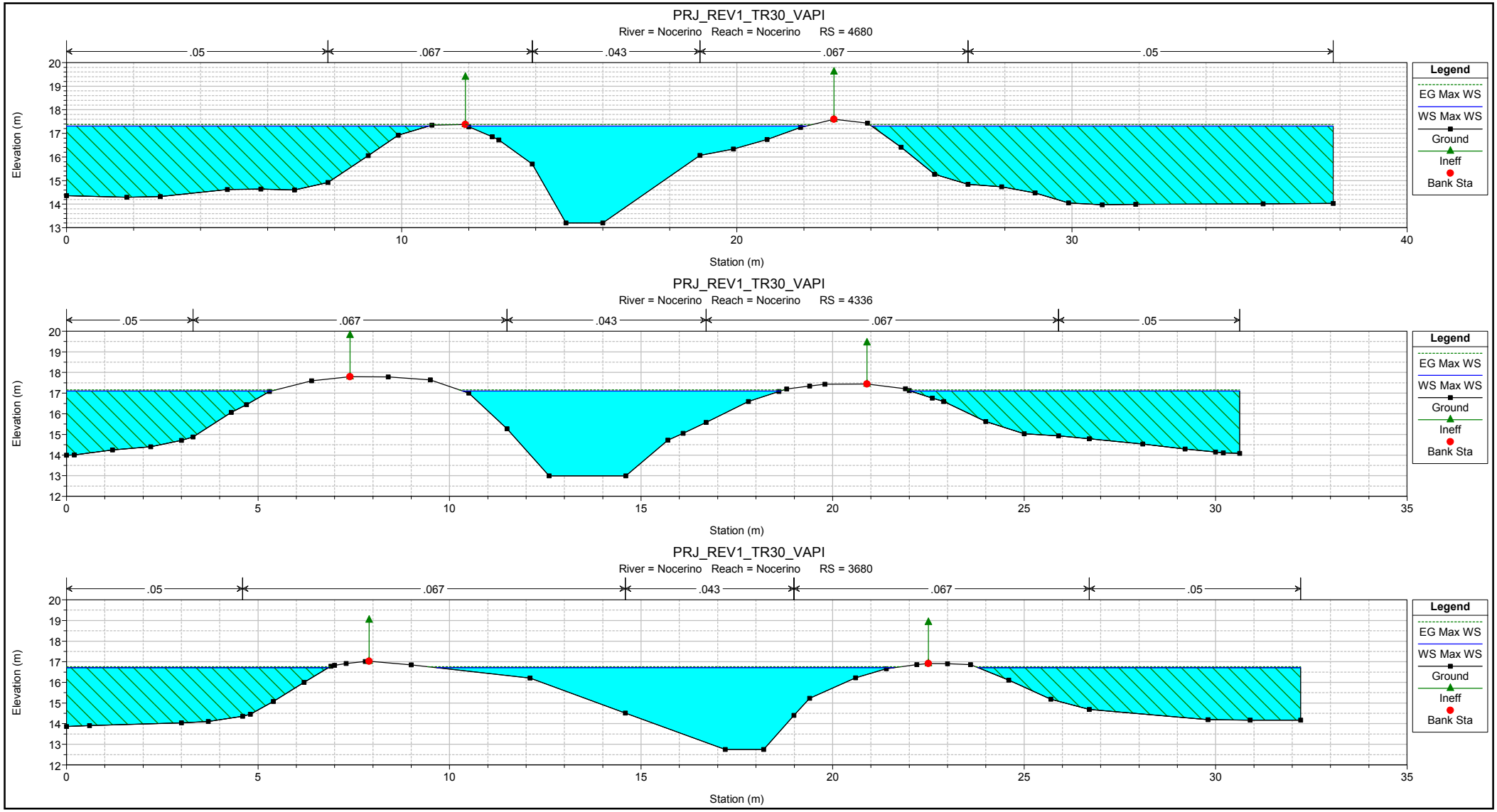

PRJ_REV1_TR30_VAPI
Nocerino Nocerino
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
22
20
18
16
14
12
10
0
500
1000
1500
2000
2500
527
645
1218
1711
2368
3023
3680
4336
4680
5278
5378
5588
5962
6245
6401
6586
6961
7420
7923

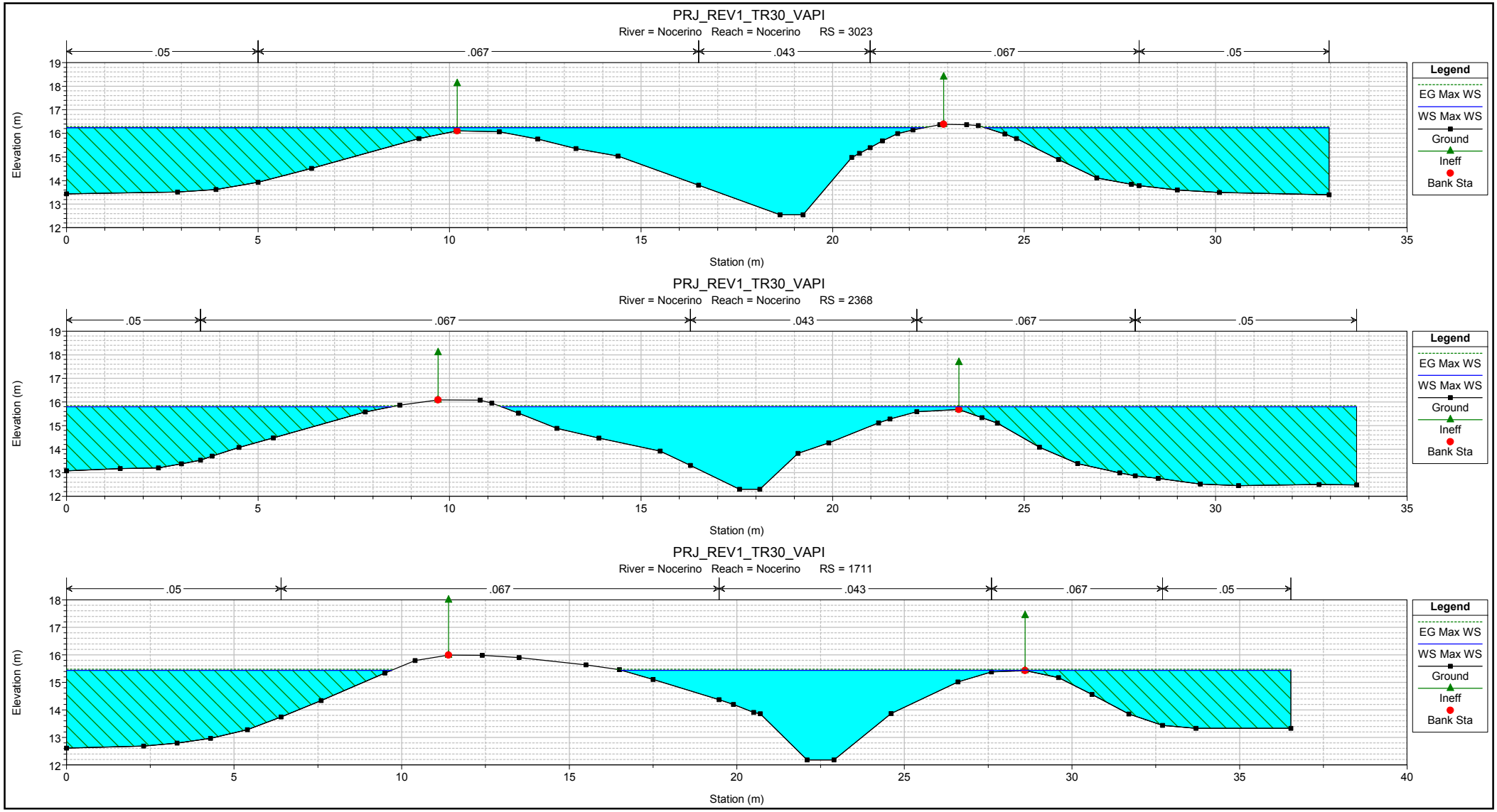

PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 7923
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 7420
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6961
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

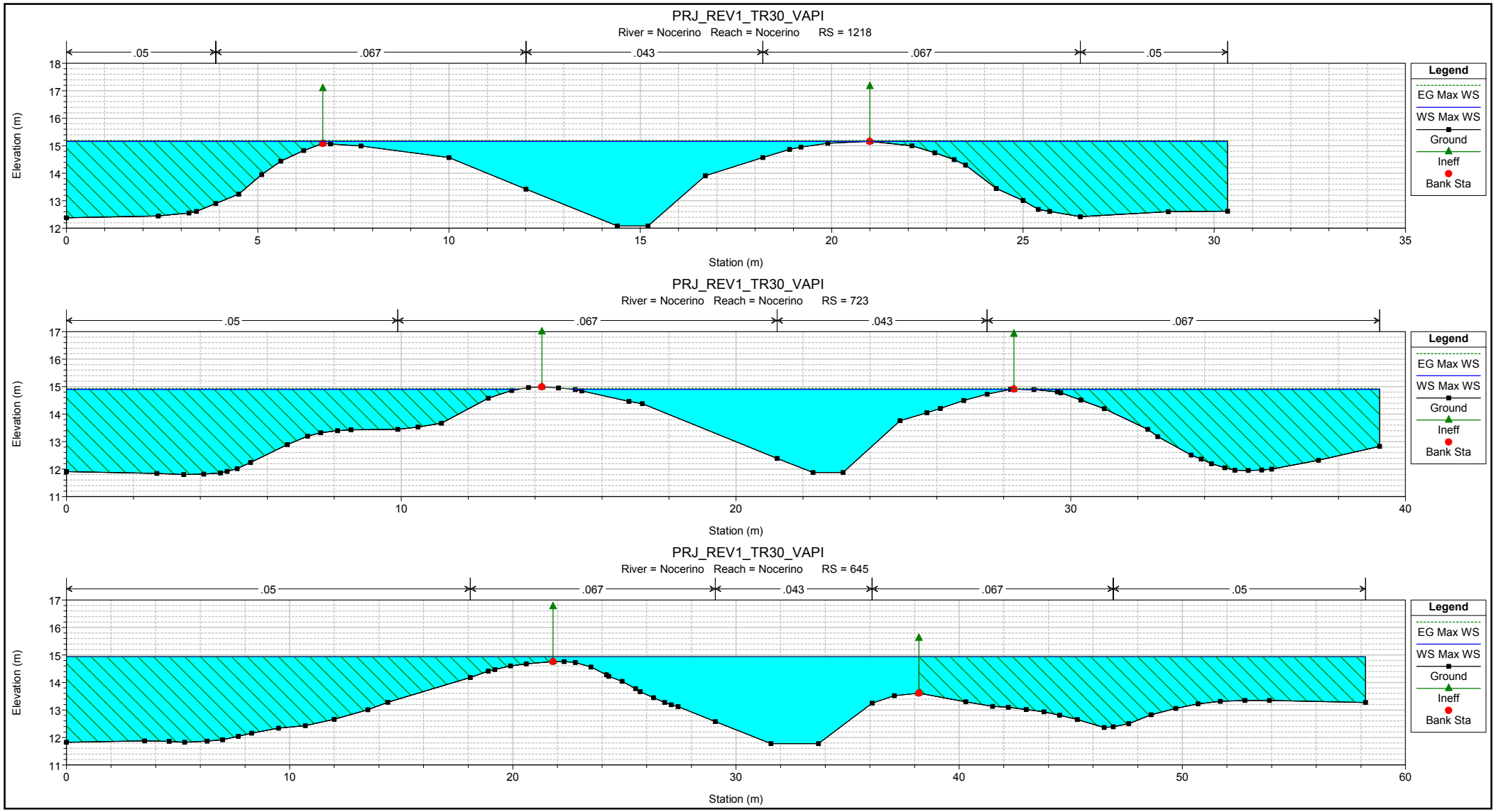

PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6586
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6457
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6401
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

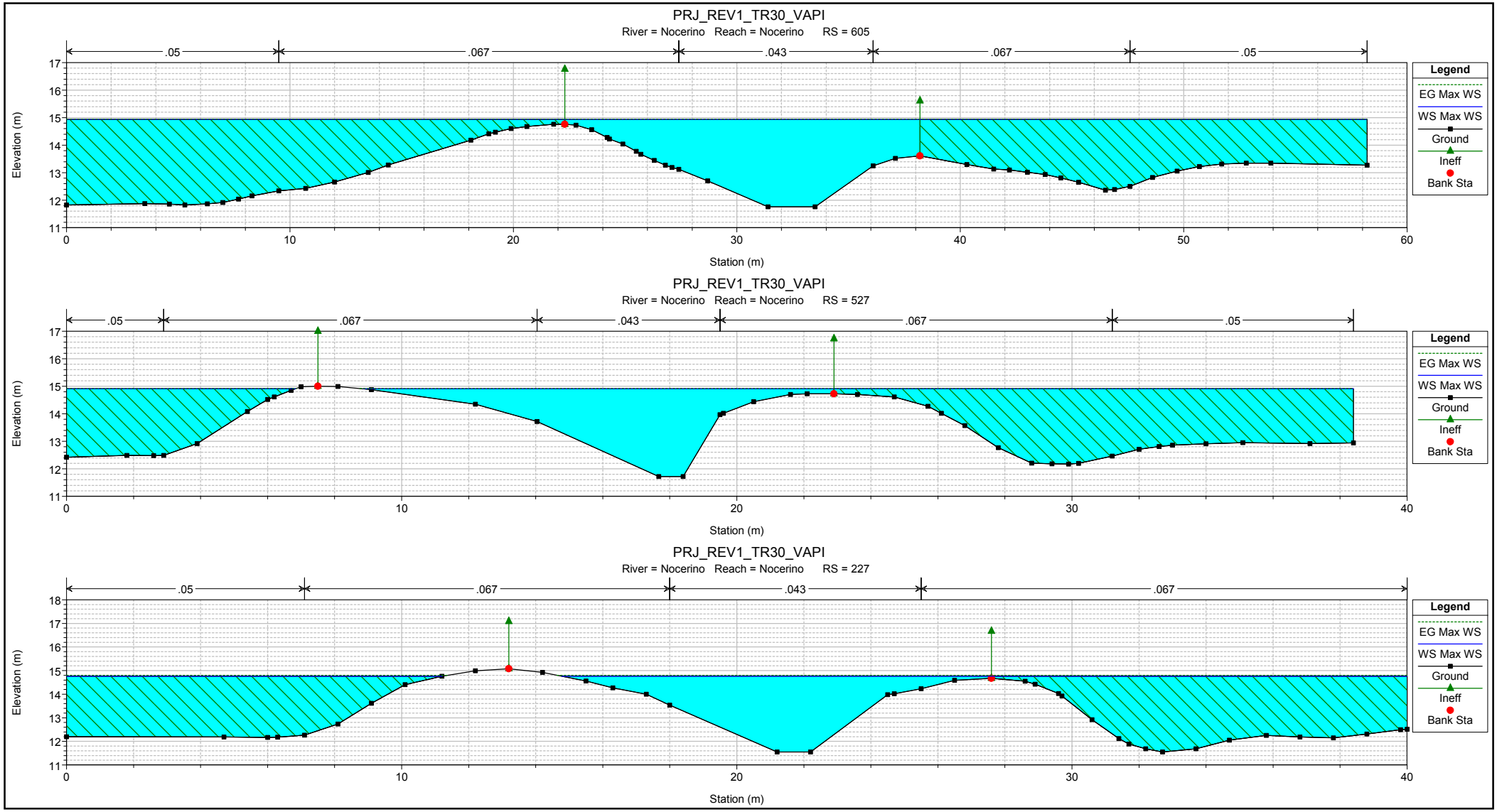

PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 6245
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5962
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5588
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

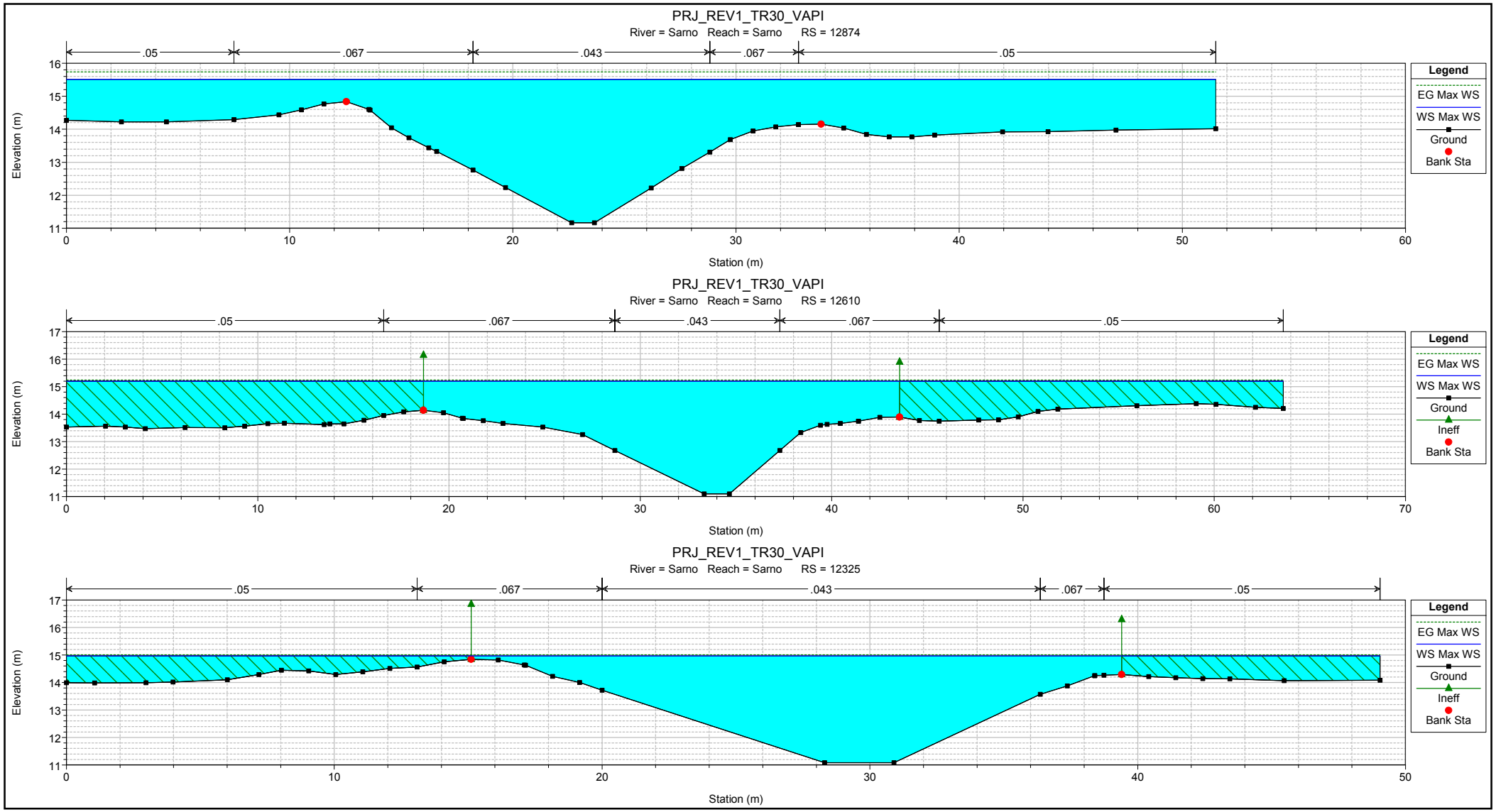

PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5378
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 5278
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

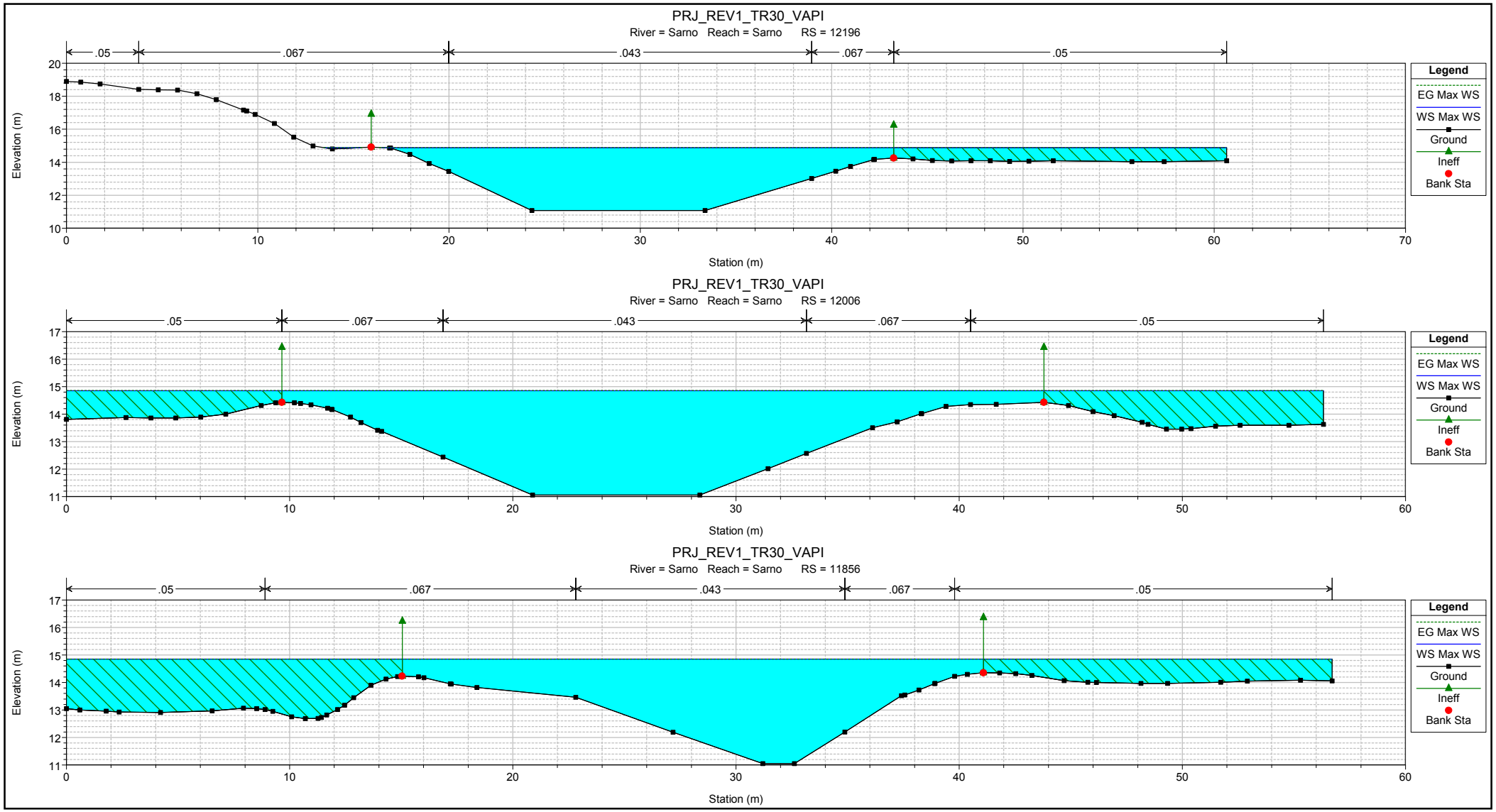

PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 4680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 4336
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 3680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

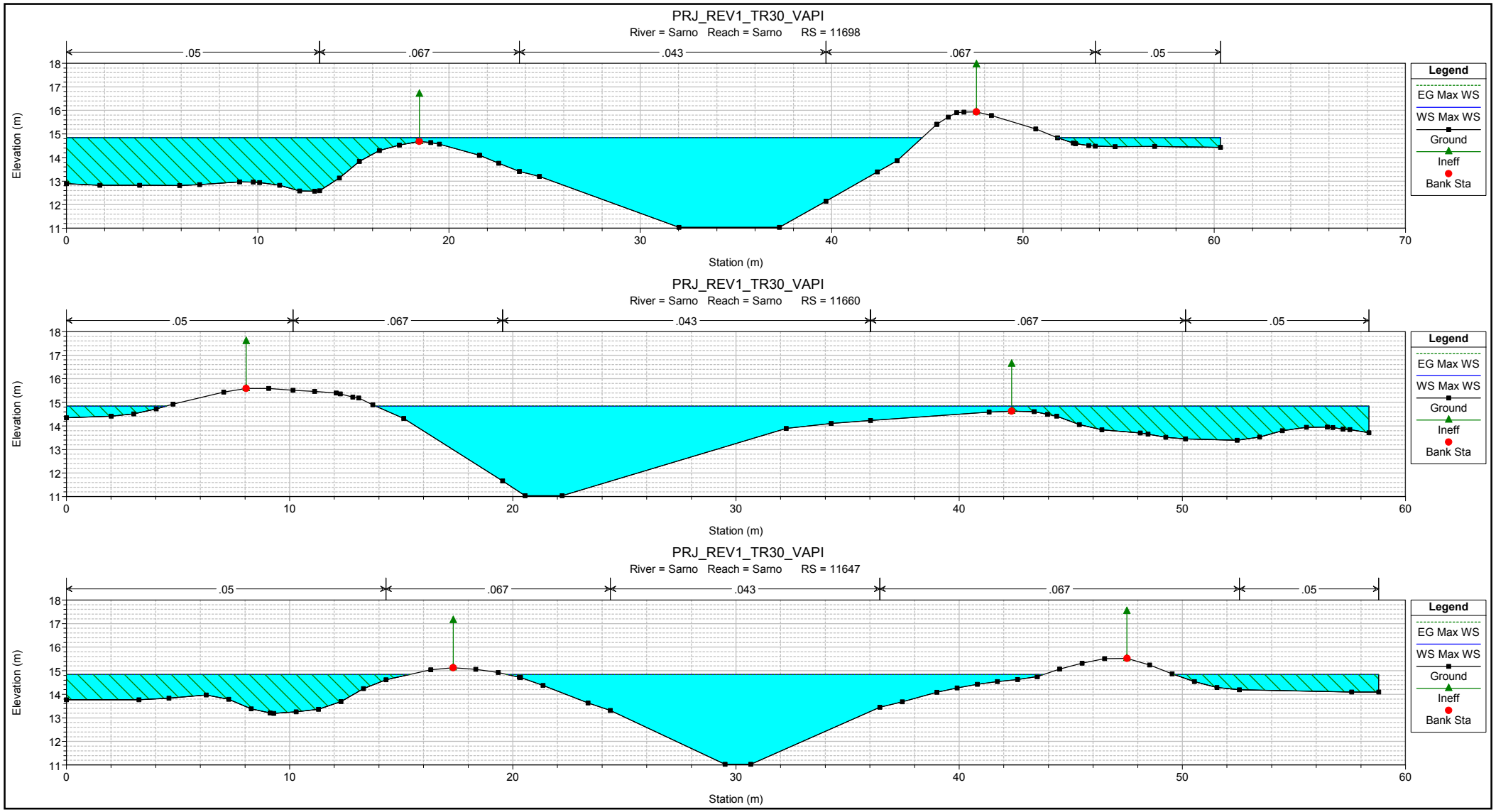

PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 3023
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 2368
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 1711
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

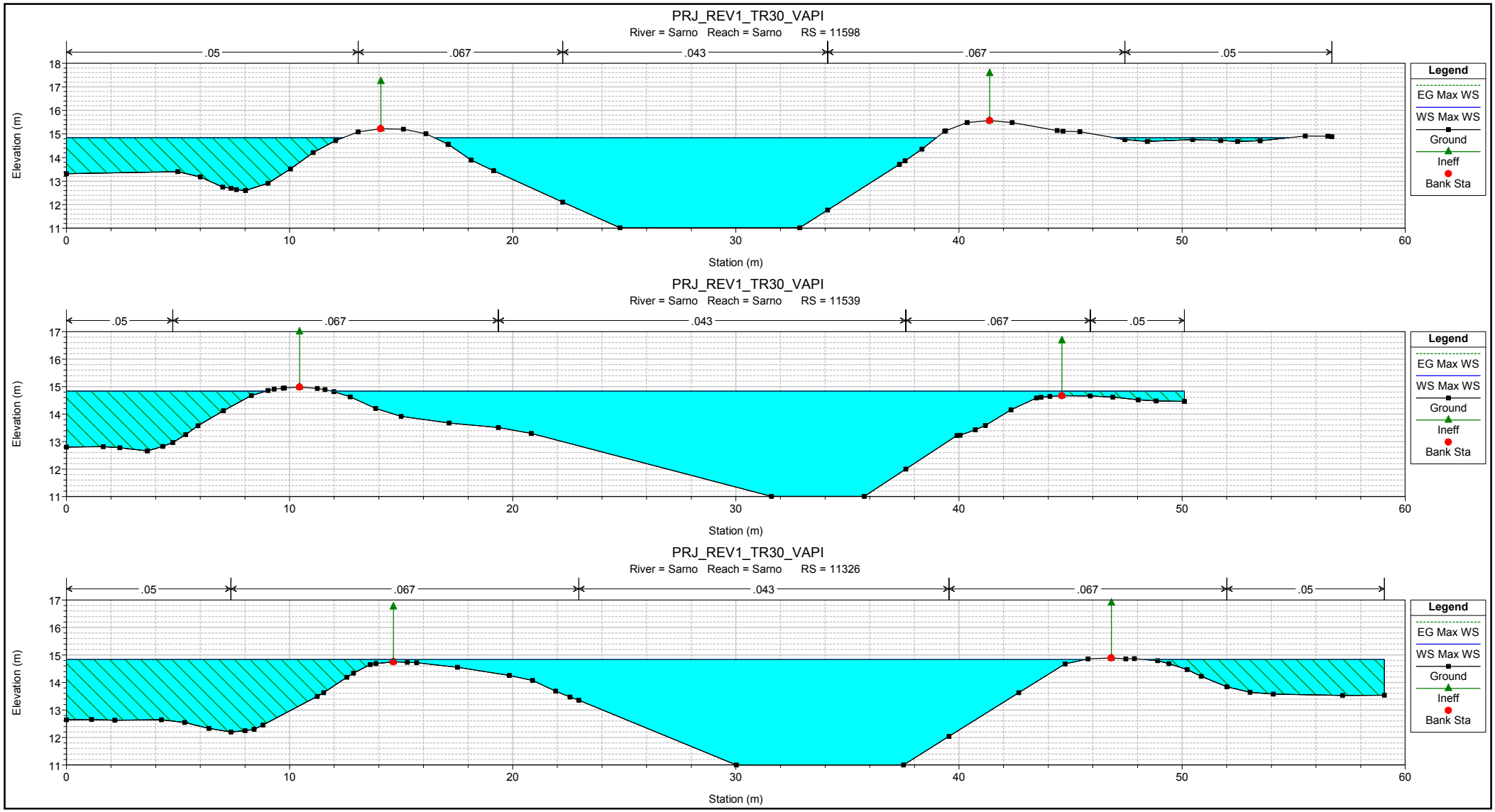

PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 1218
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 723
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 645
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

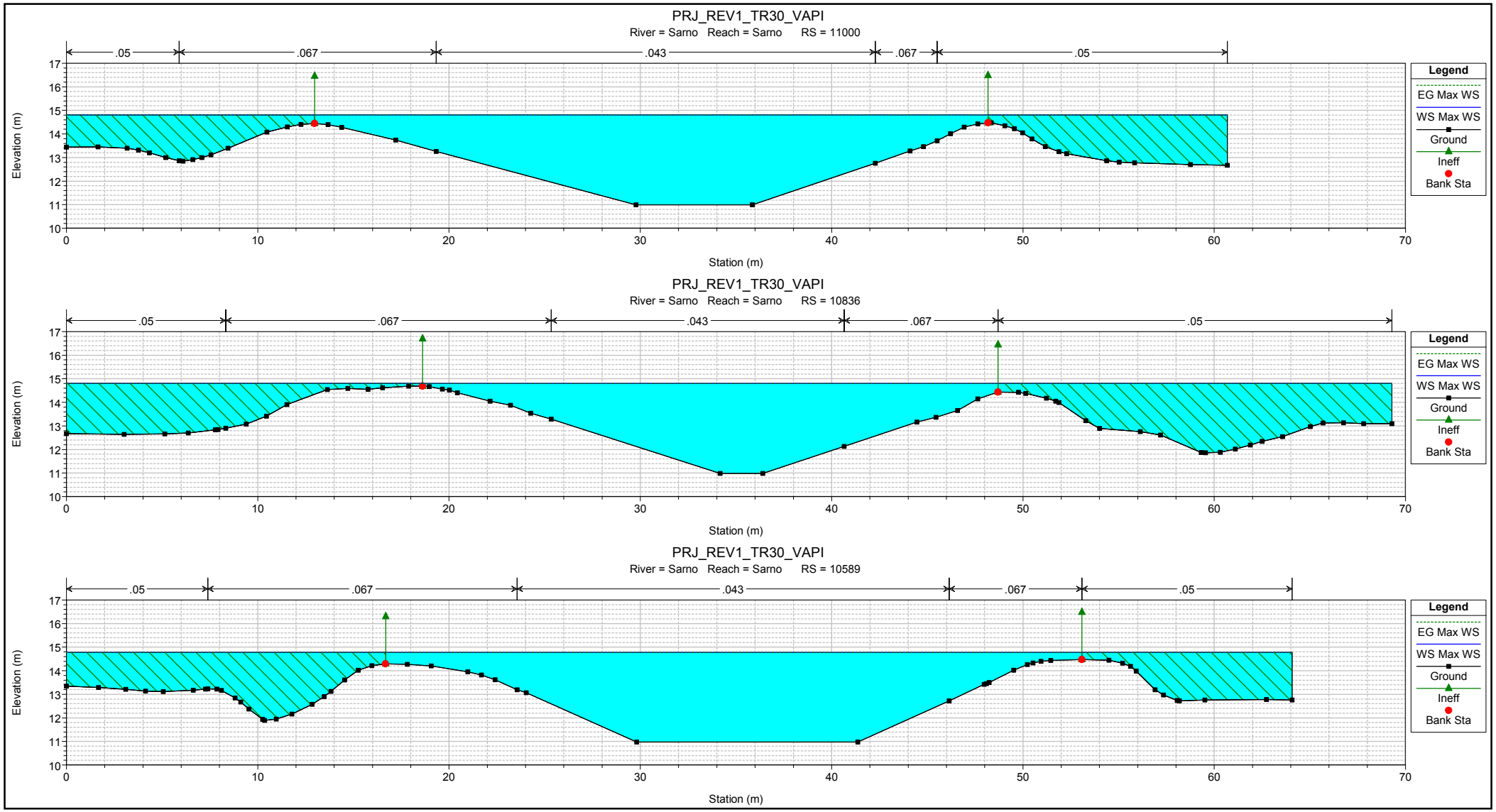

PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 605
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 527
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Nocerino Reach = Nocerino RS = 227
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

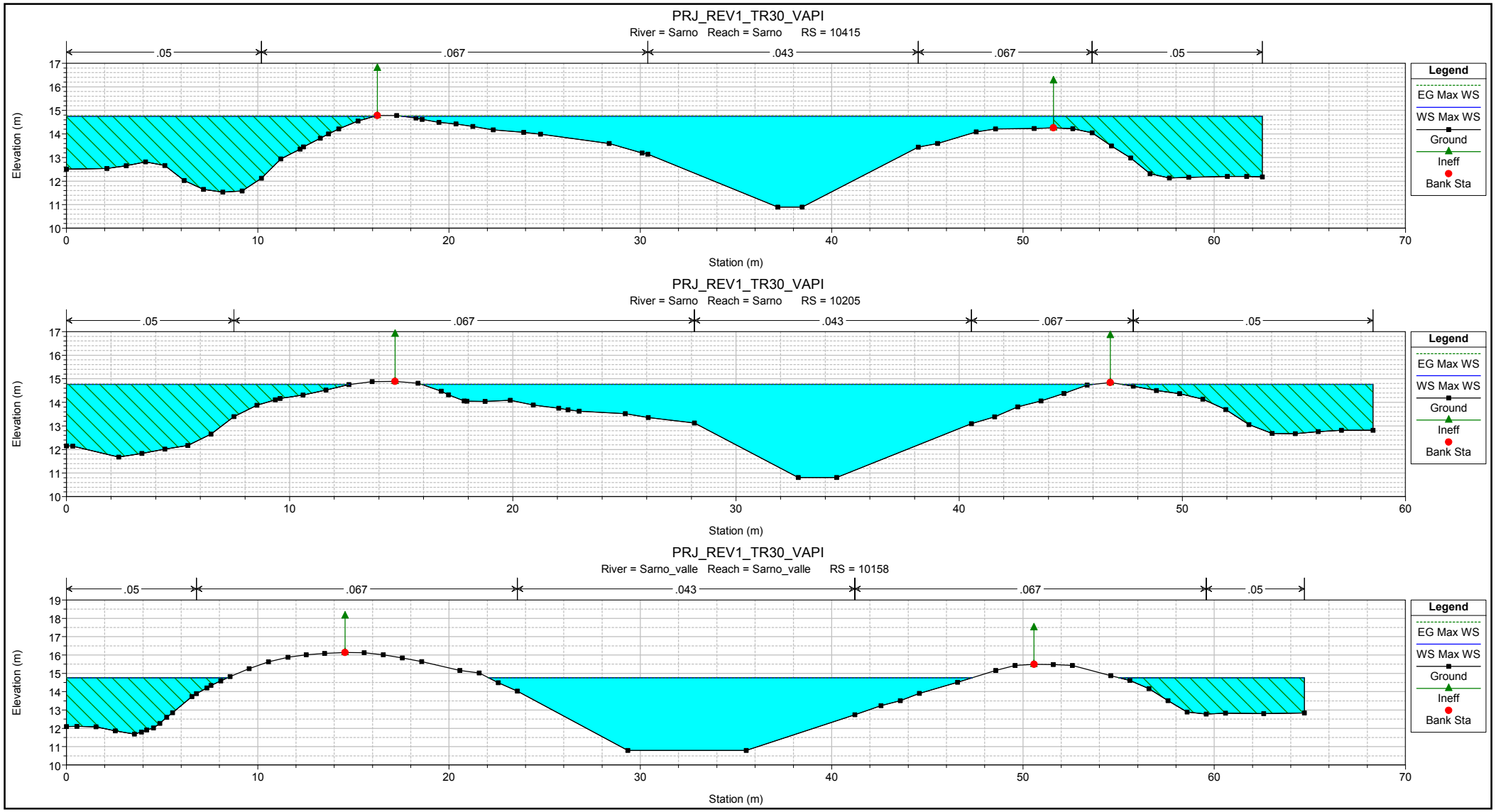

PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12874
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12610
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12325
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

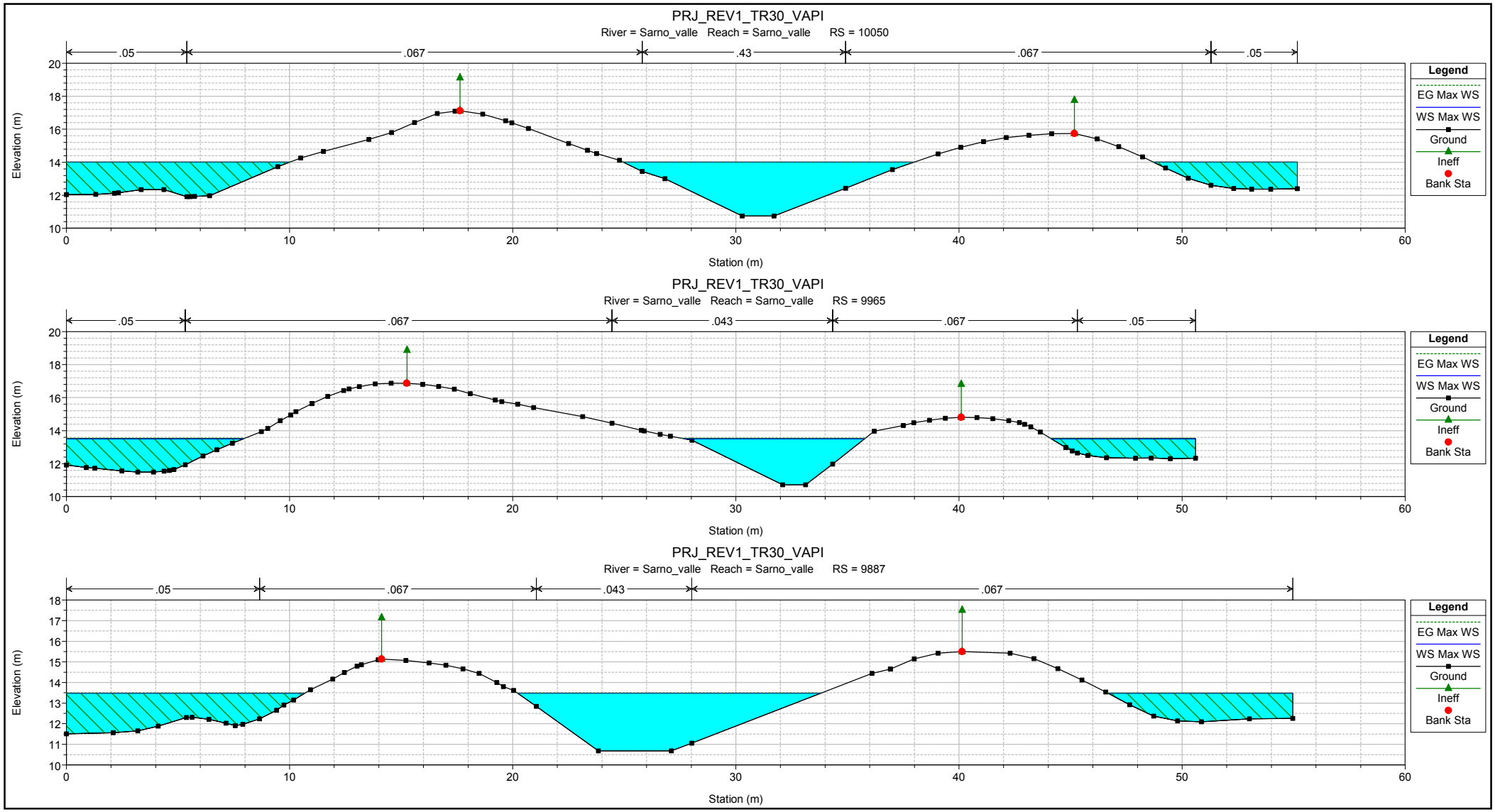

PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12196
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 12006
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11856
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

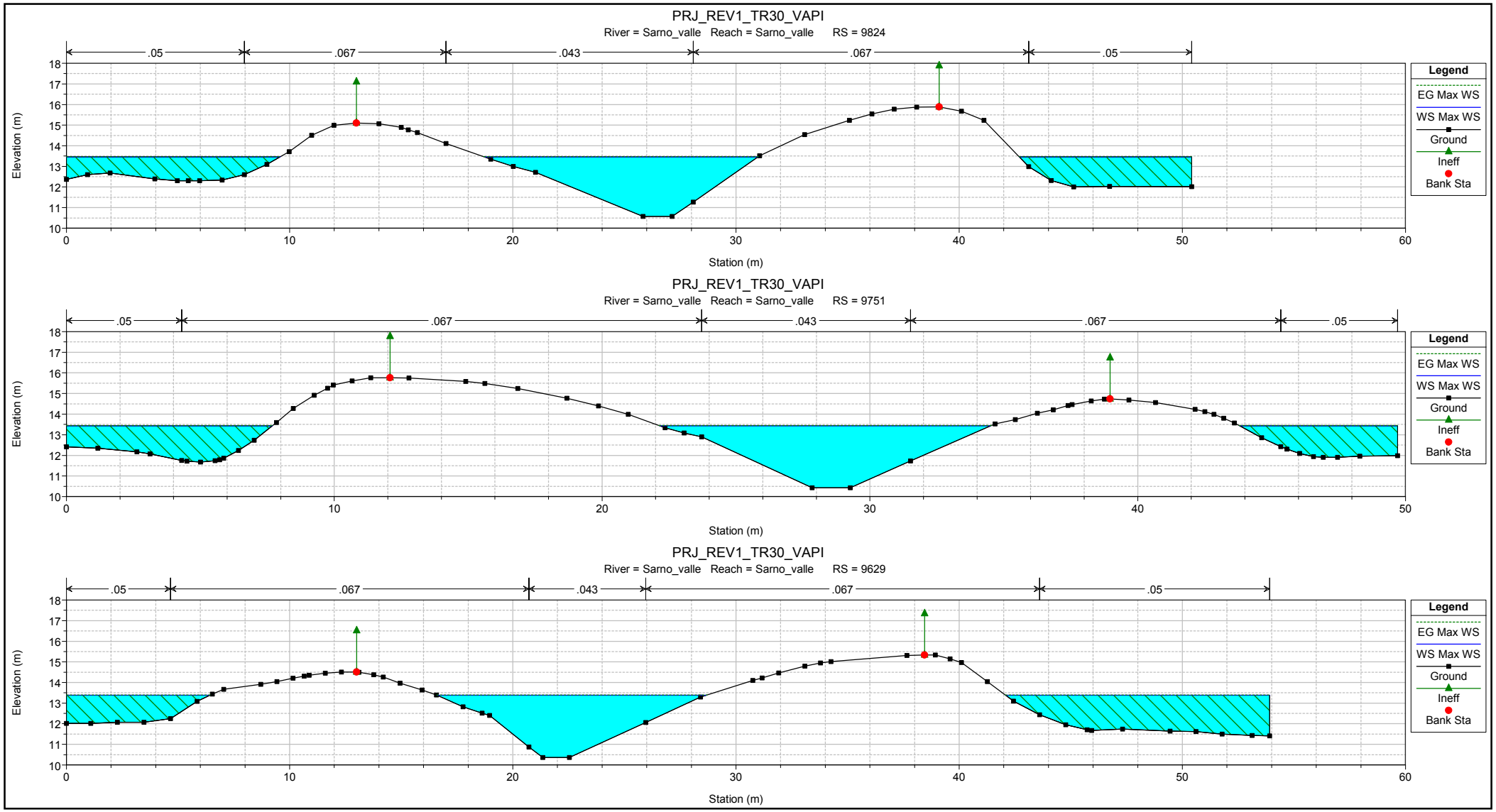

PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11698
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11660
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11647
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

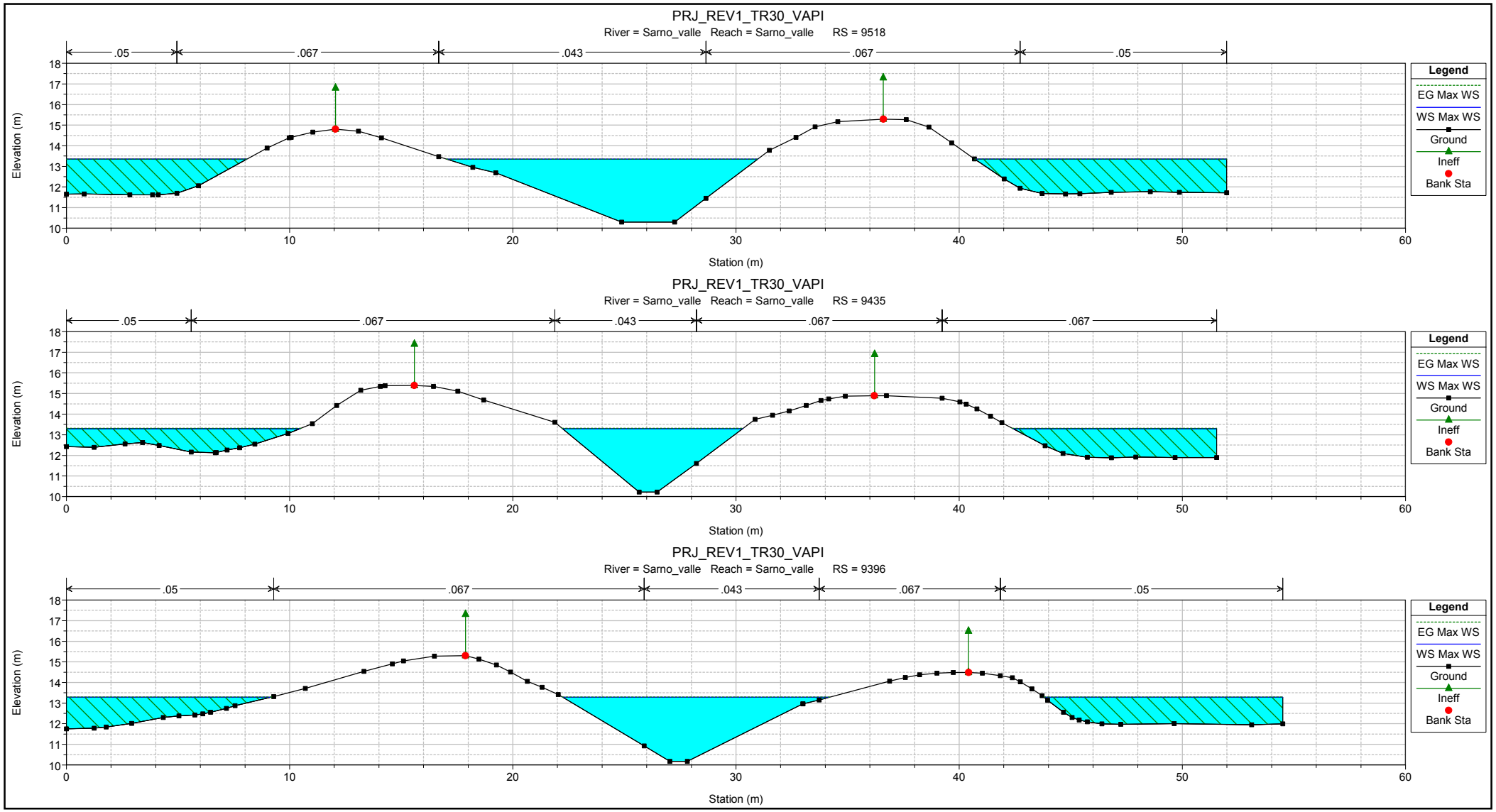

PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11598
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11539
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11326
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

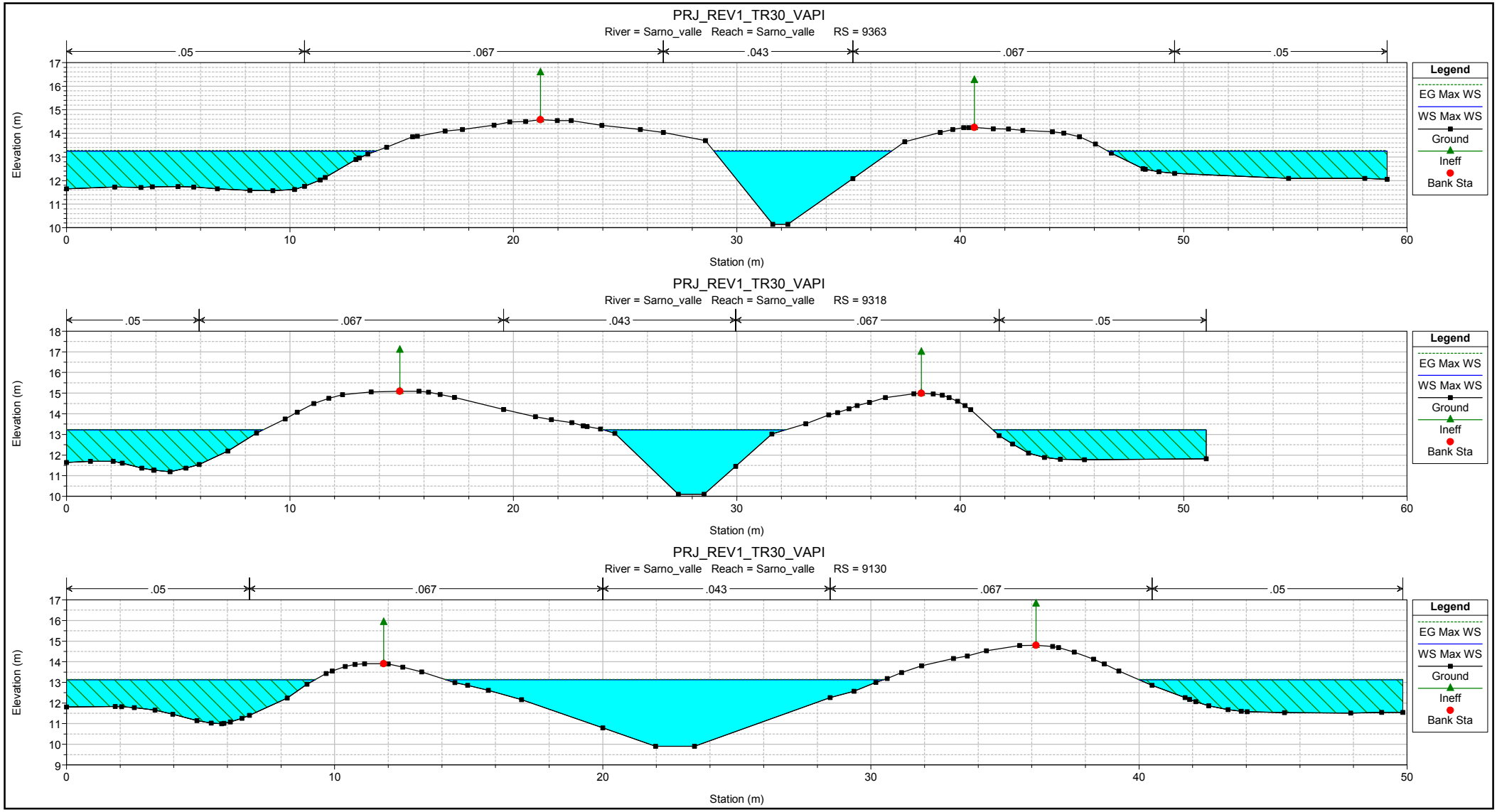

PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 11000
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 10836
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 10589
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

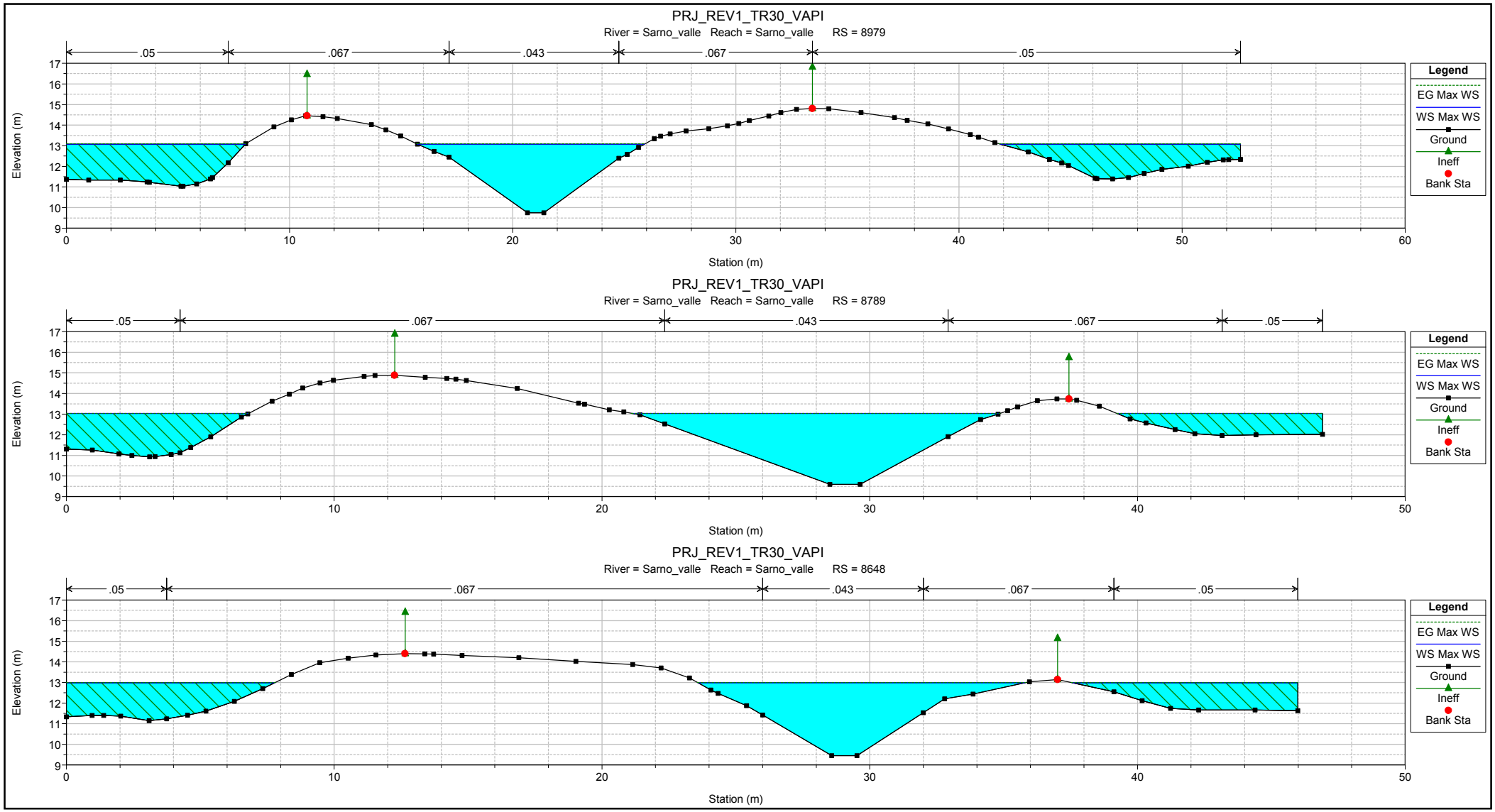

PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 10415
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno Reach = Sarno RS = 10205
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10158
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

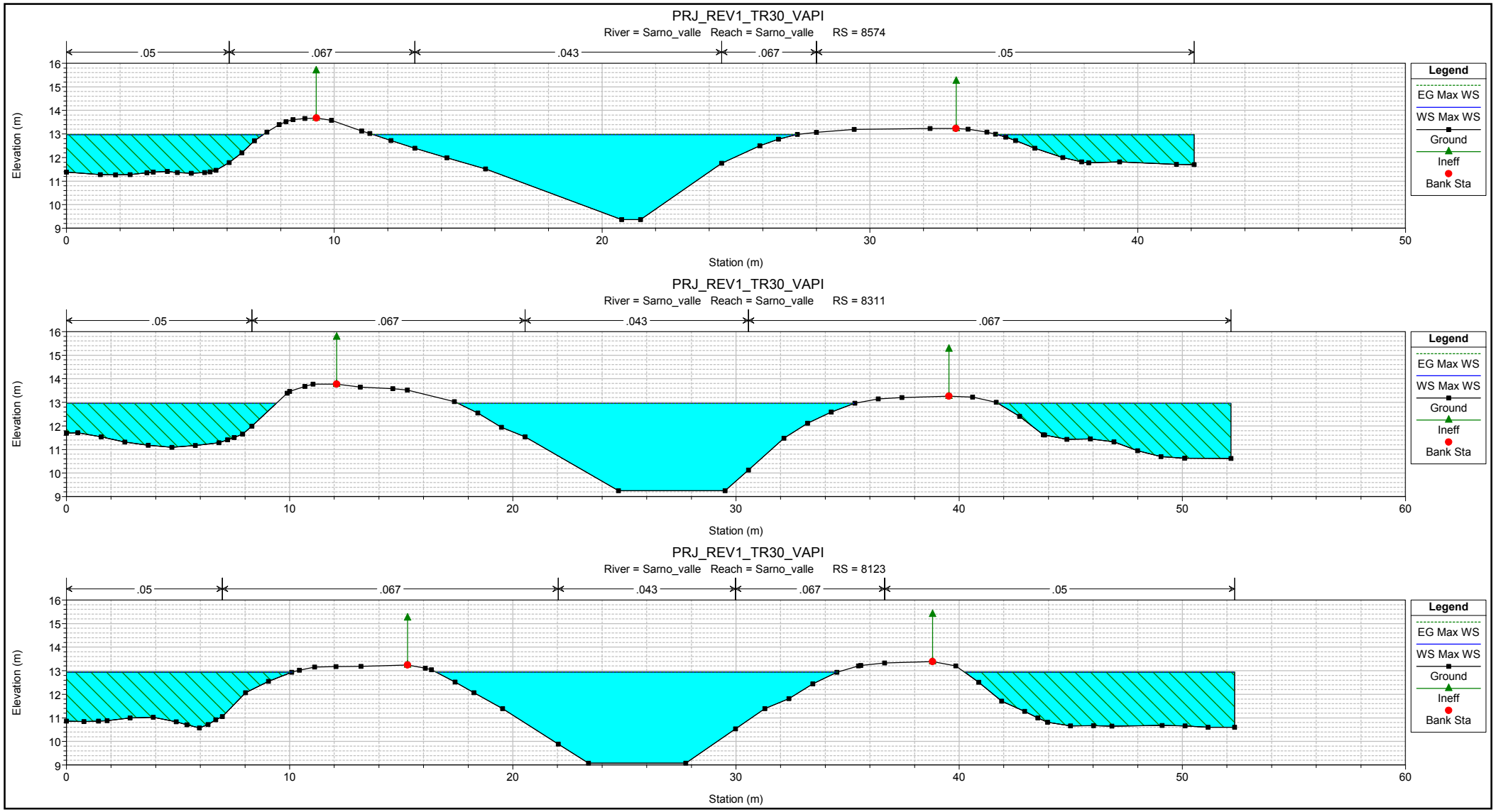

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10050
.05
.067
.43
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9965
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9887
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

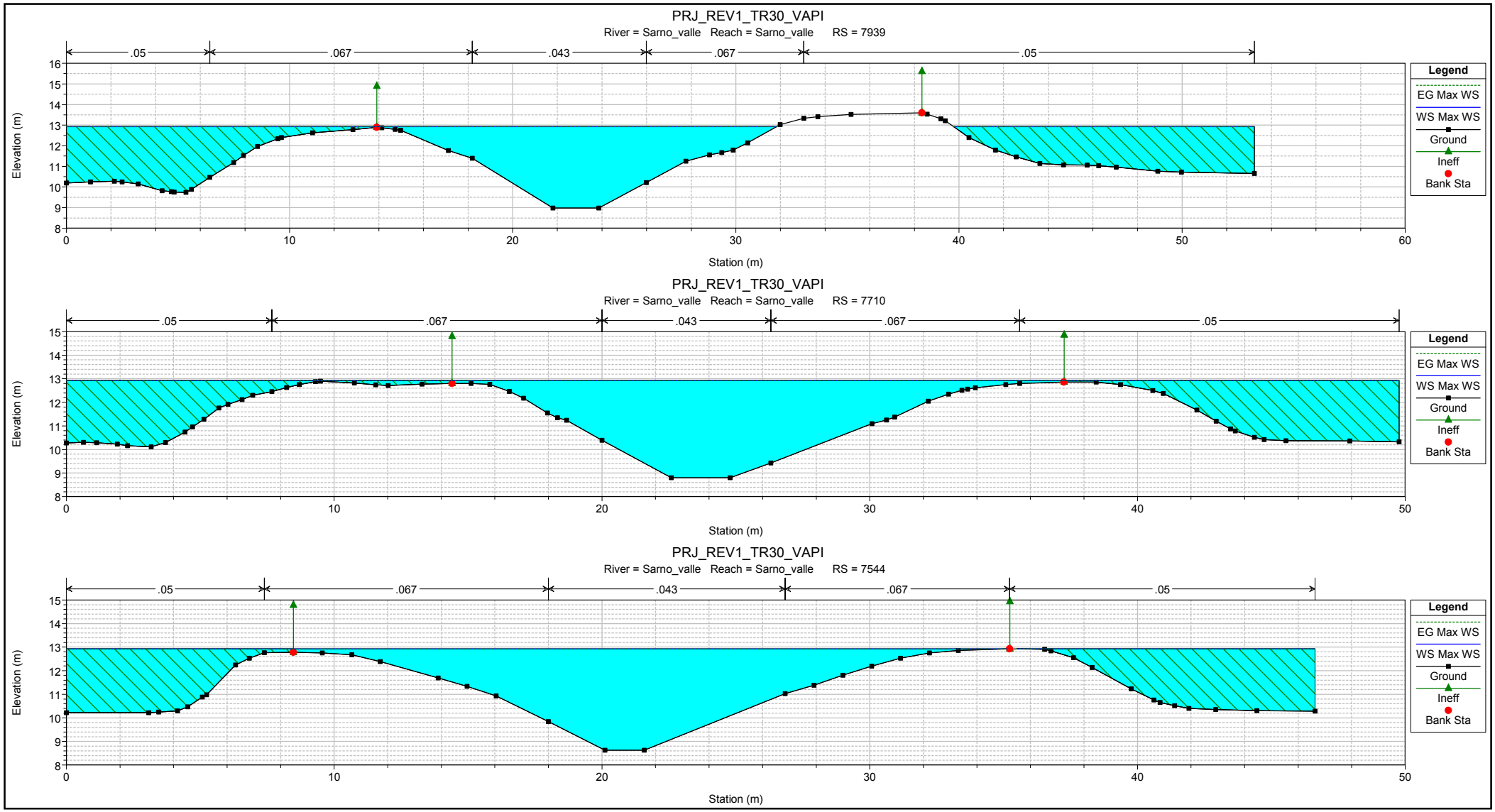

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9824
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9629
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

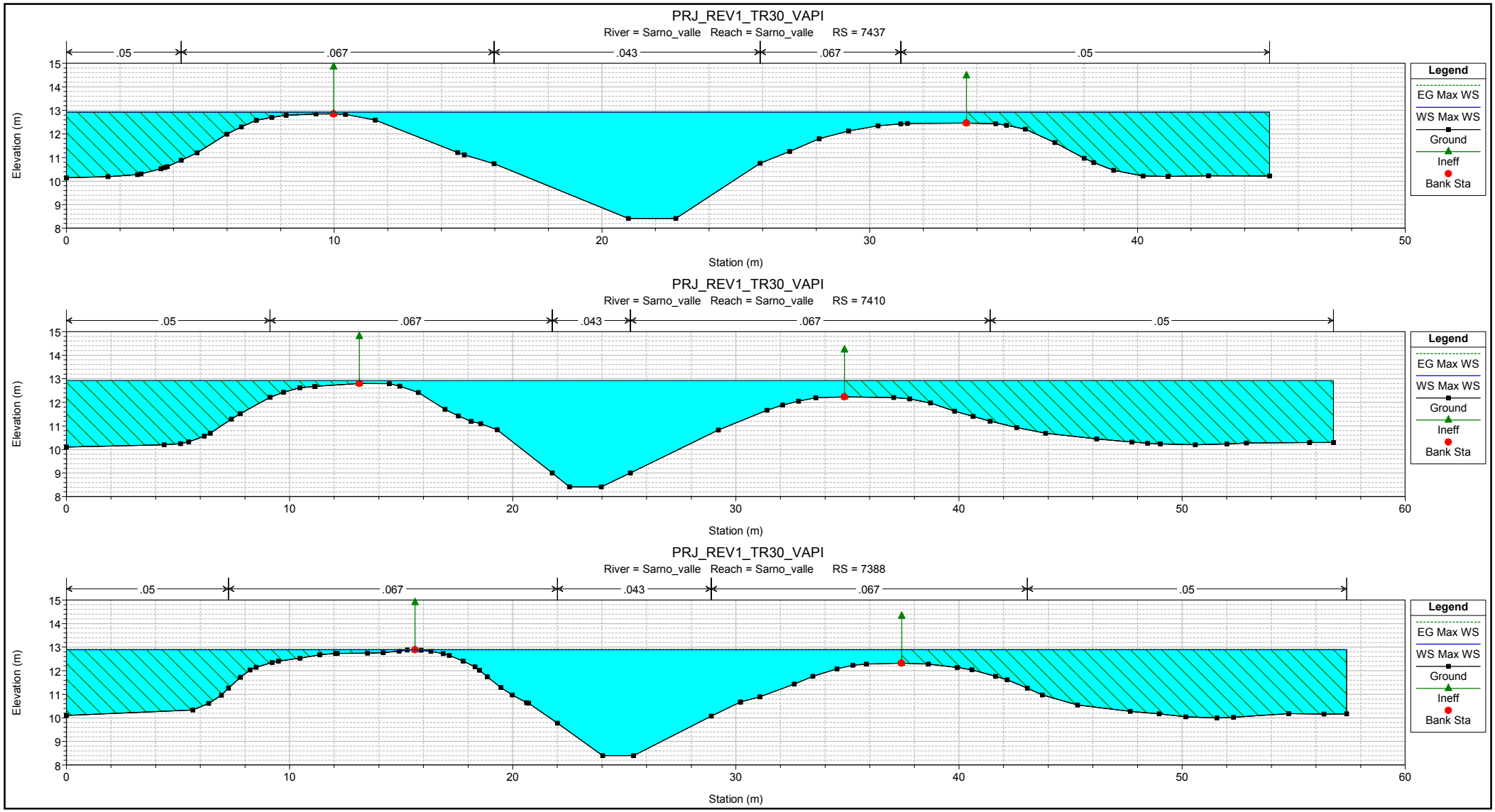

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9518
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9435
.05
.067
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9396
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

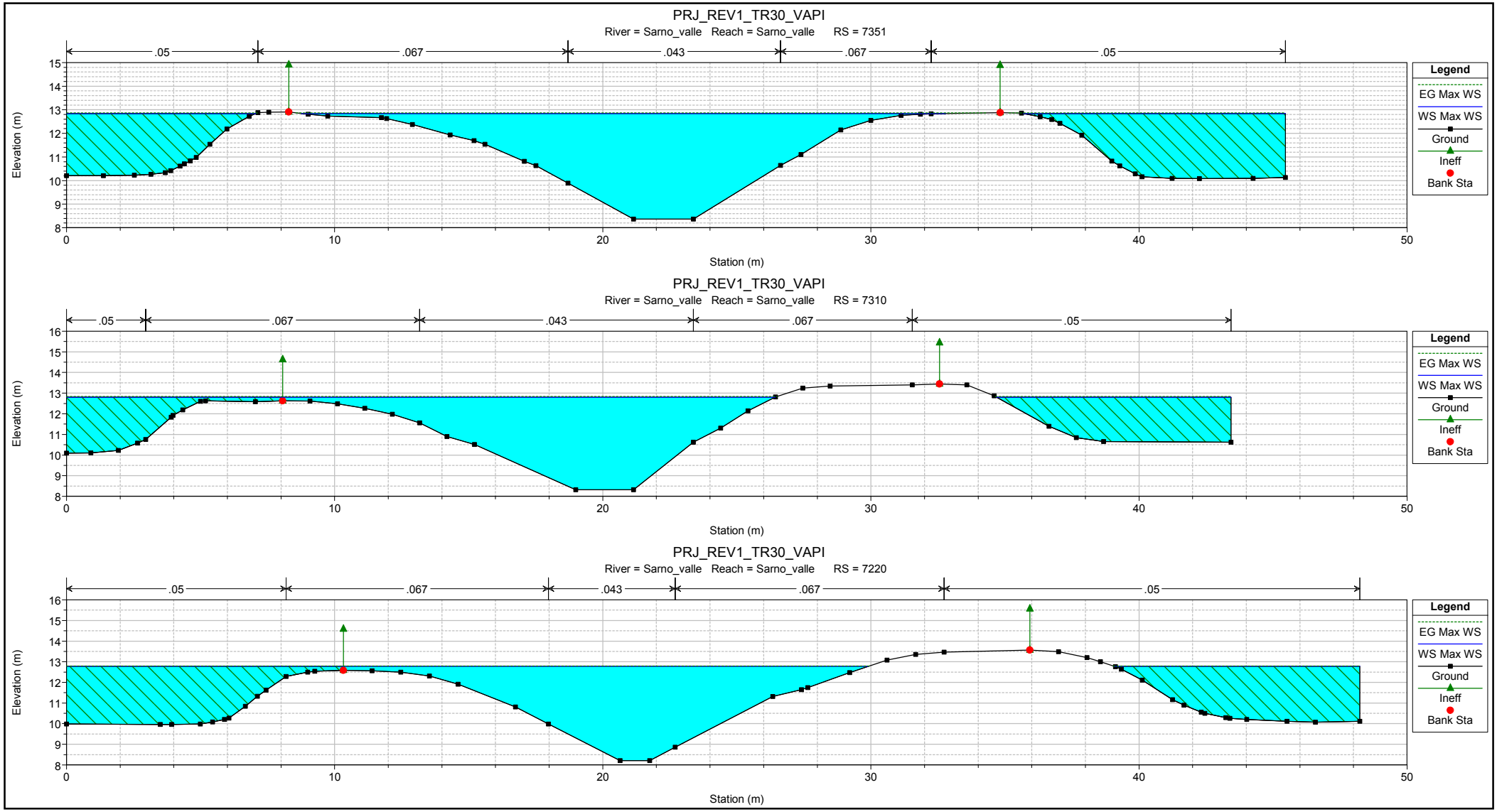

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9363
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9318
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9130
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

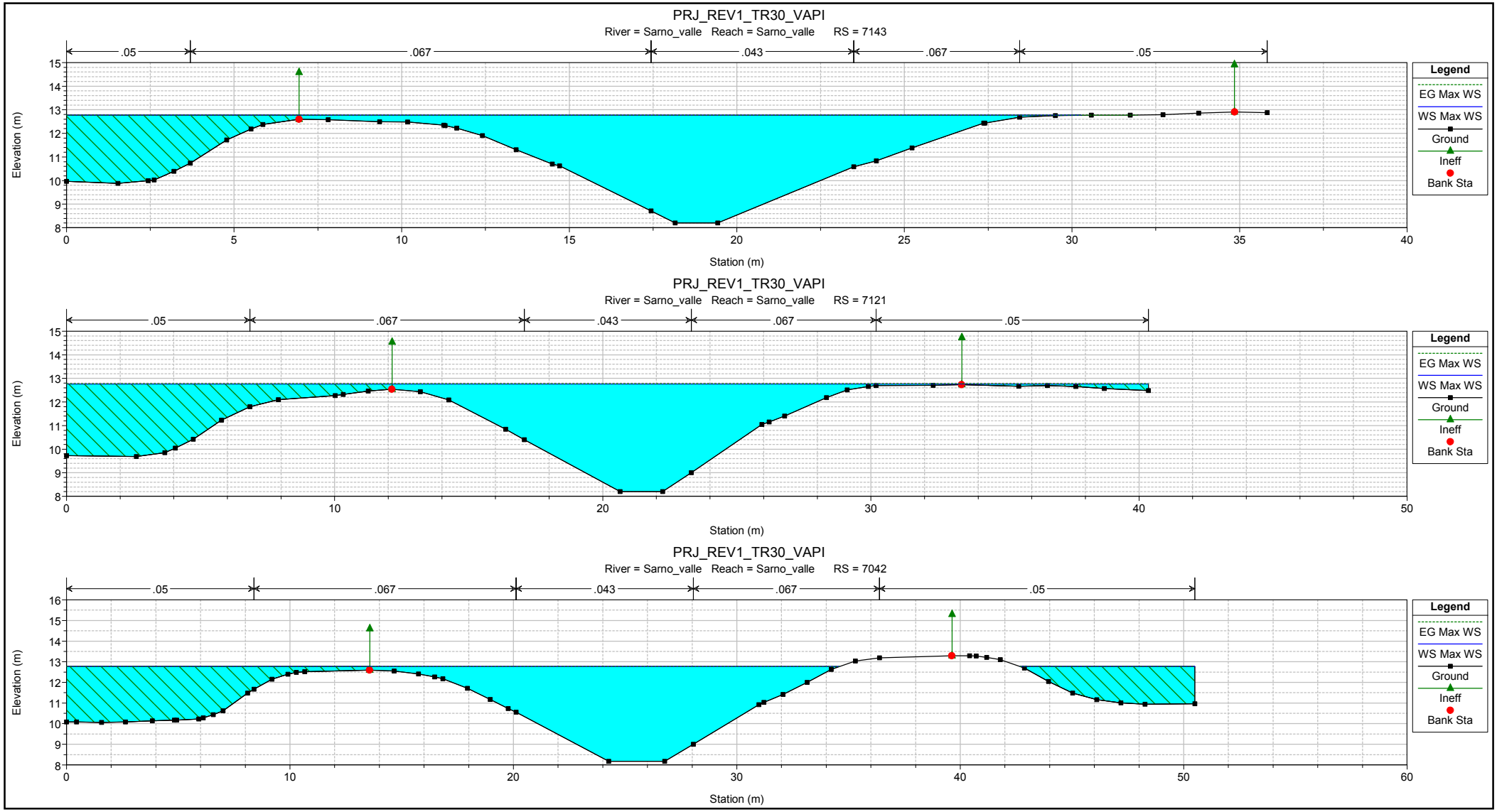

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8979
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8789
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8648
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

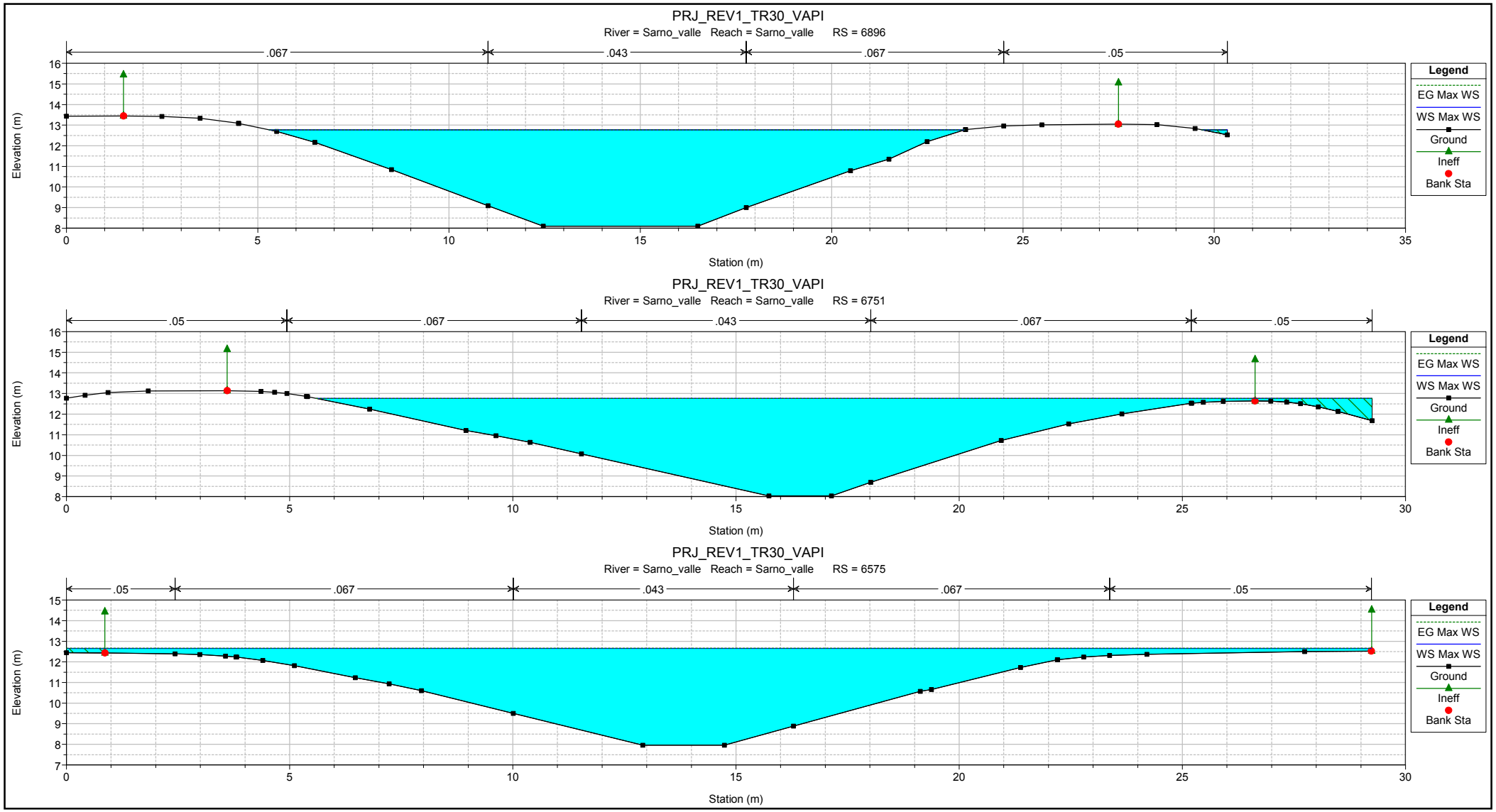

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8574
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8311
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8123
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

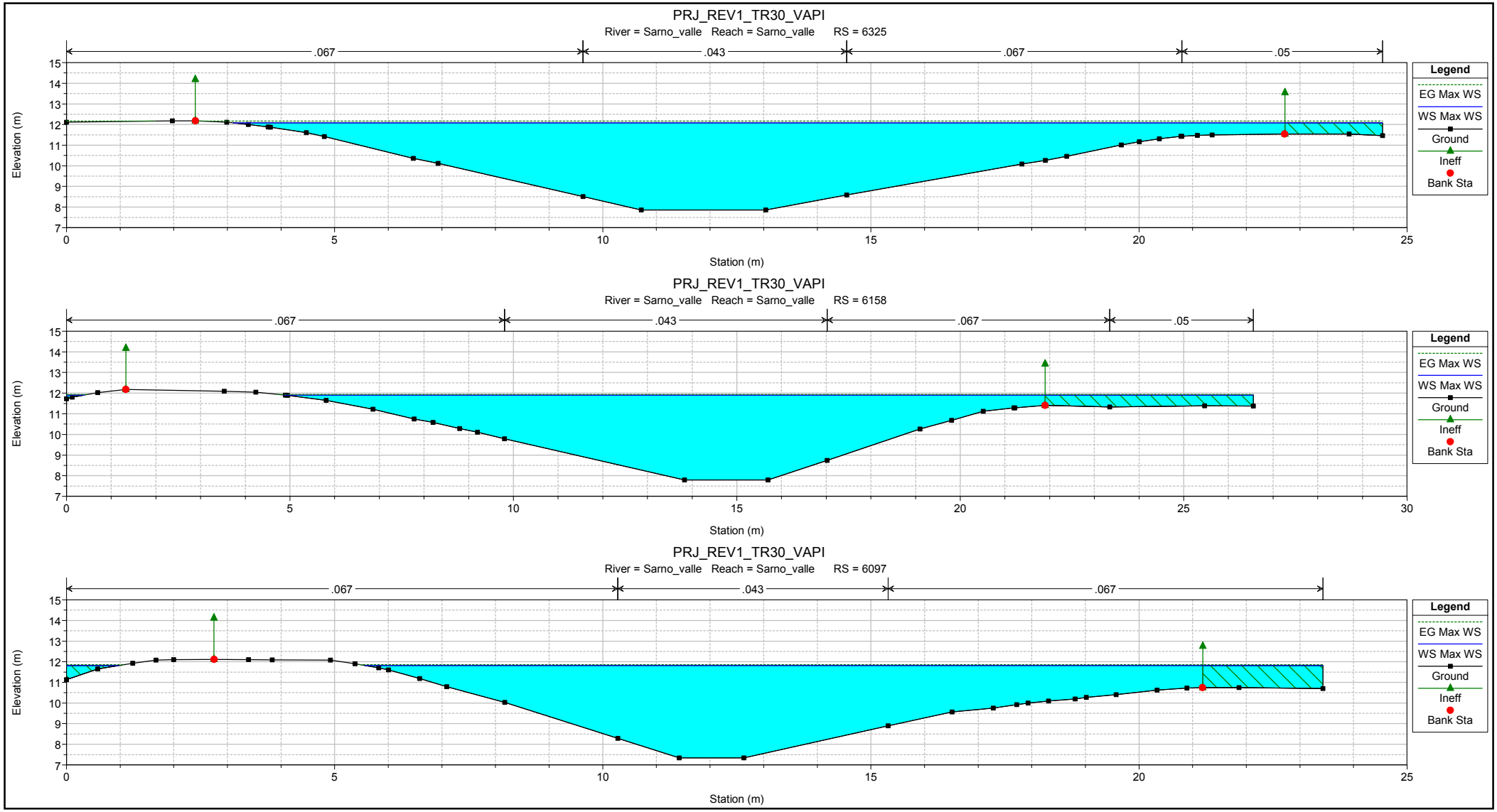

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7939
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7710
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7544
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

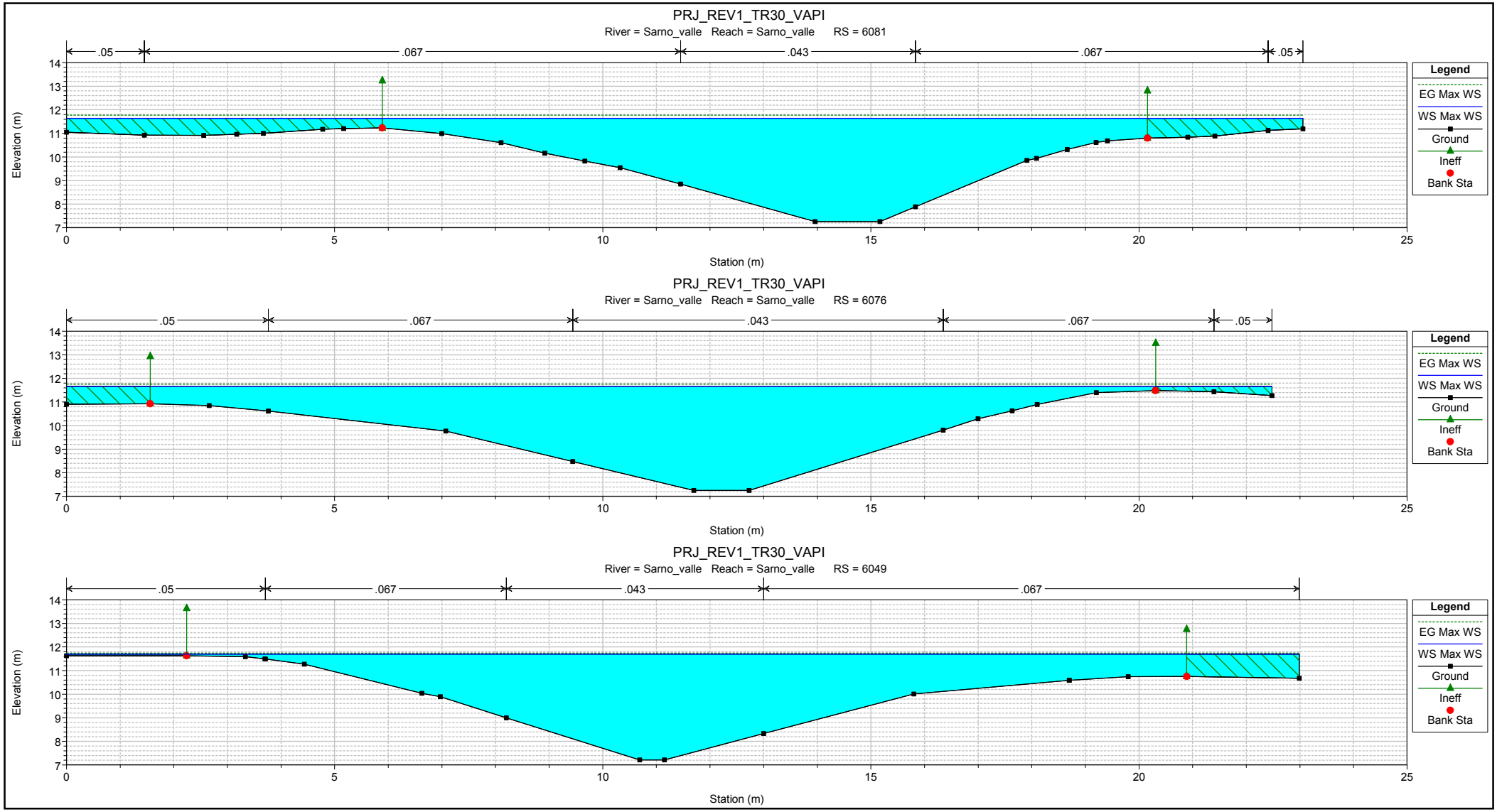

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7410
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7388
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

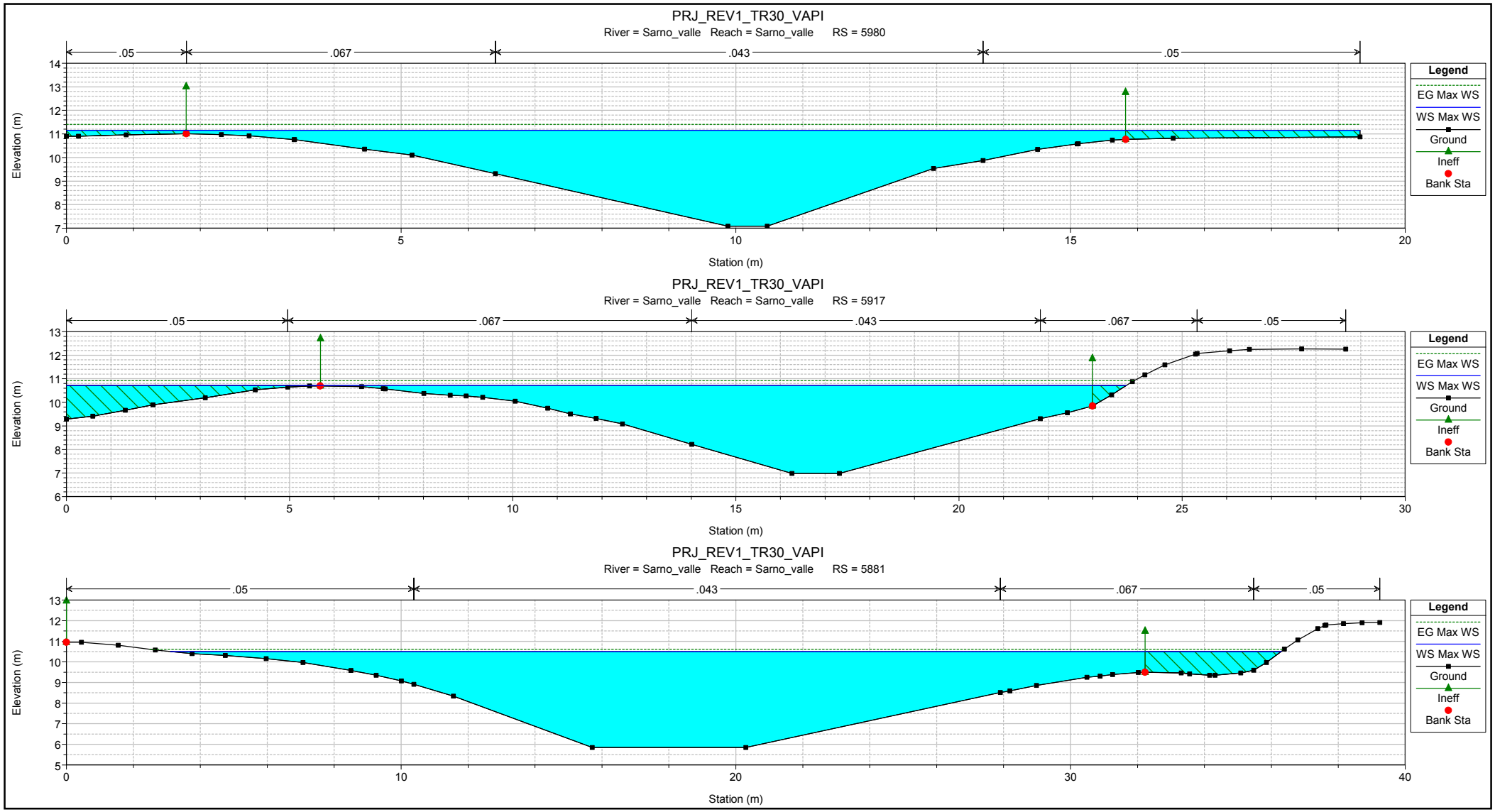

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7310
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

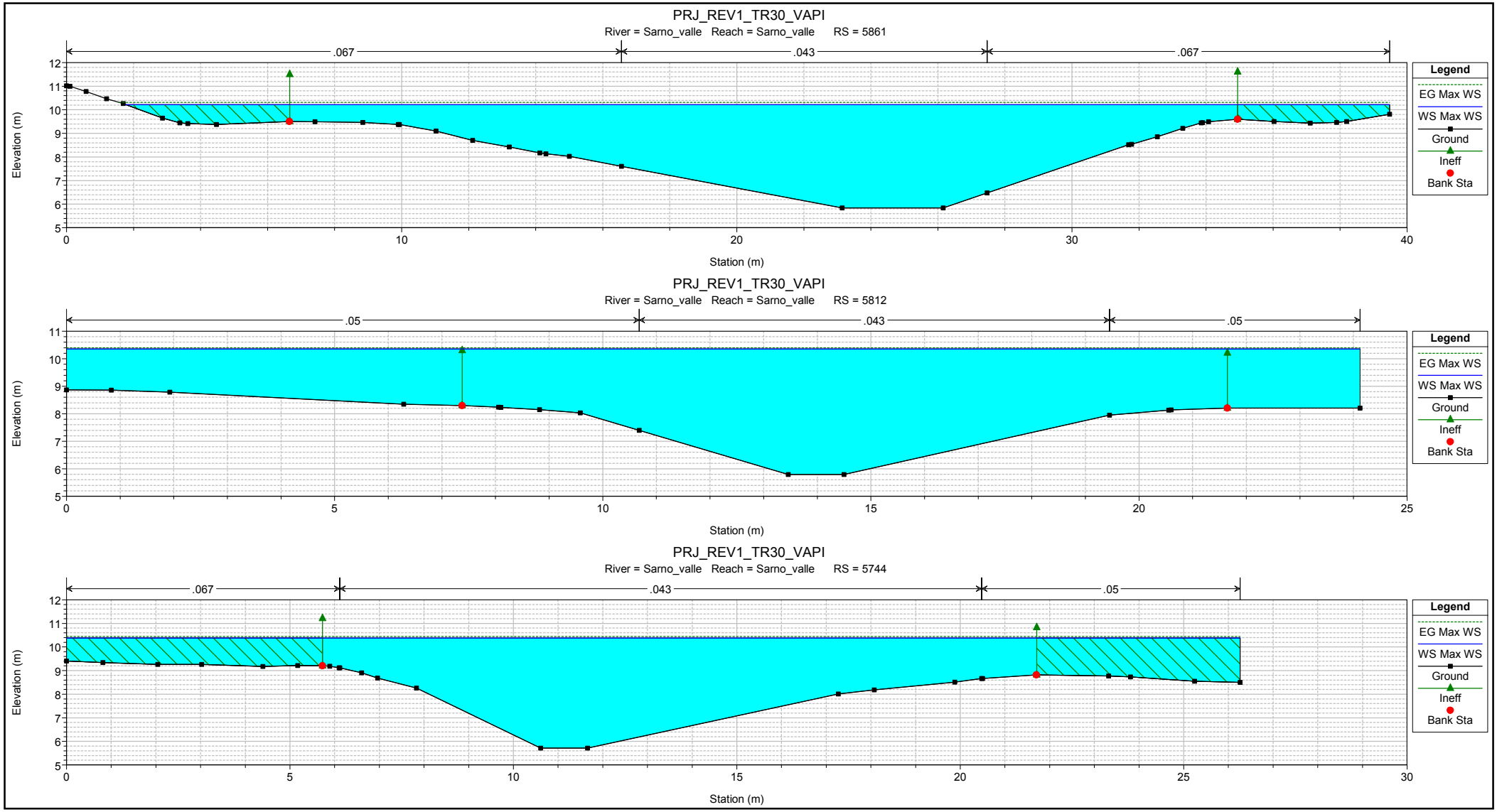

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7143
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7121
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7042
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

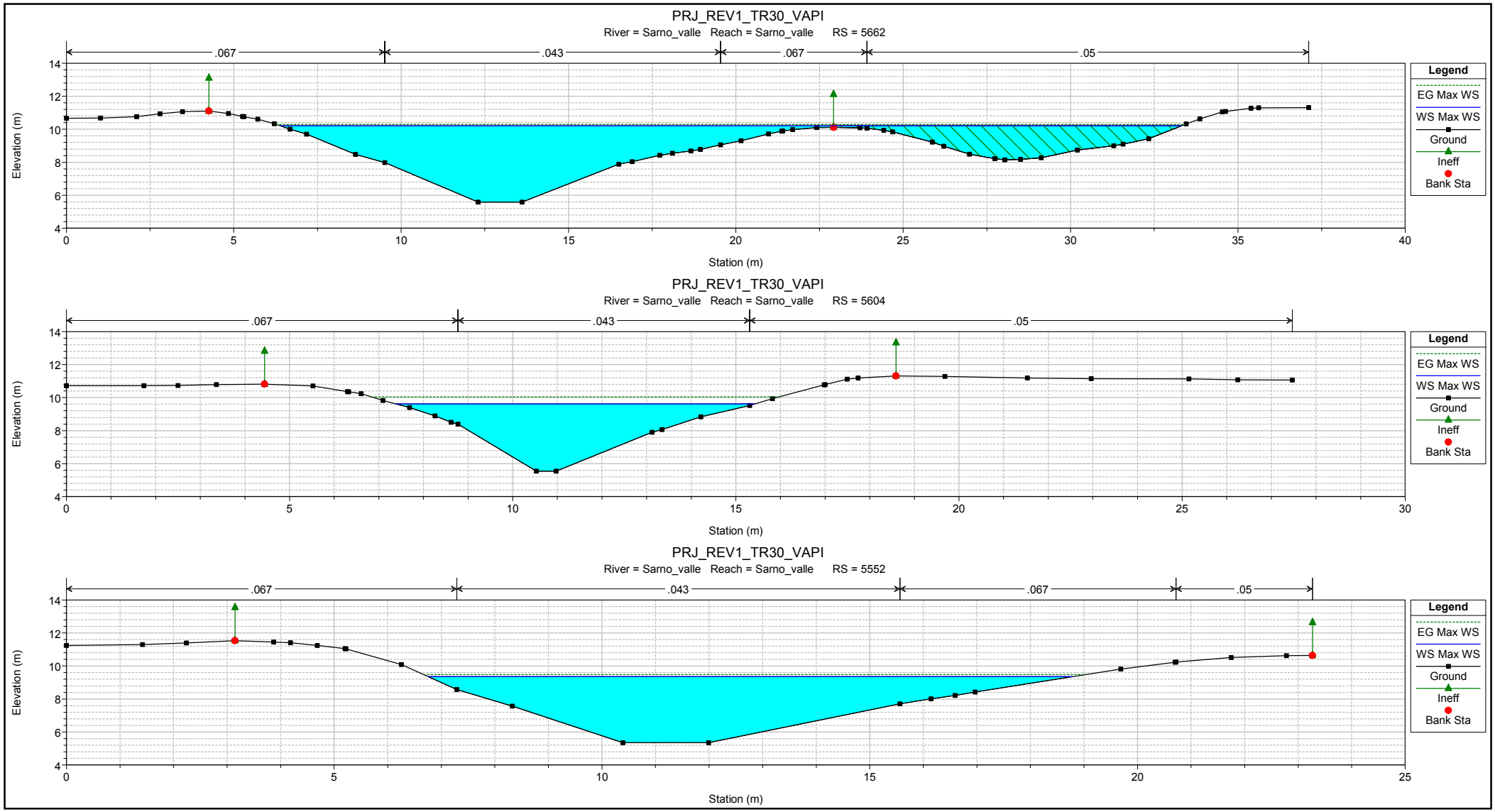

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6896
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6575
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

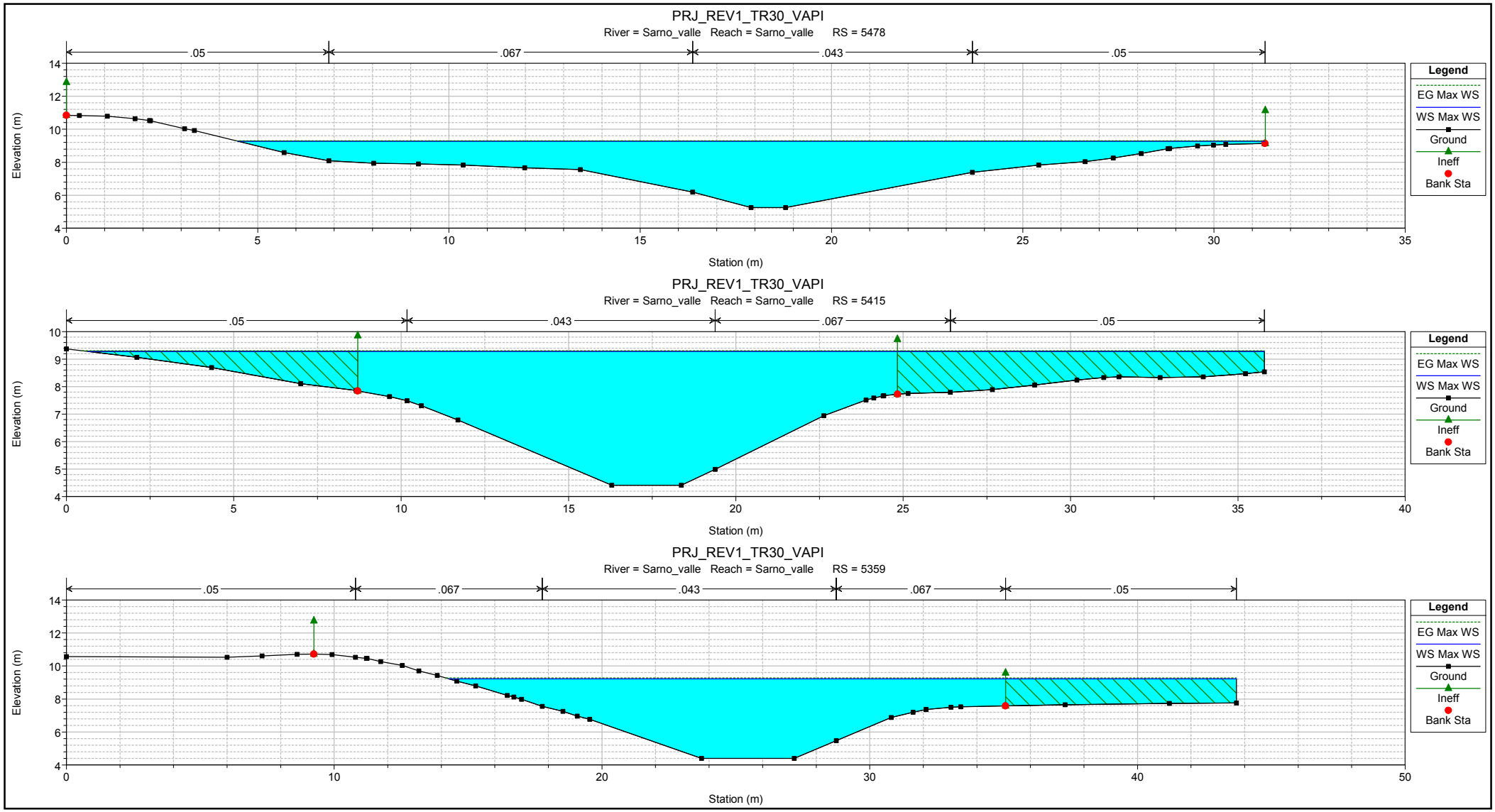

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6325
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6158
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6097
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

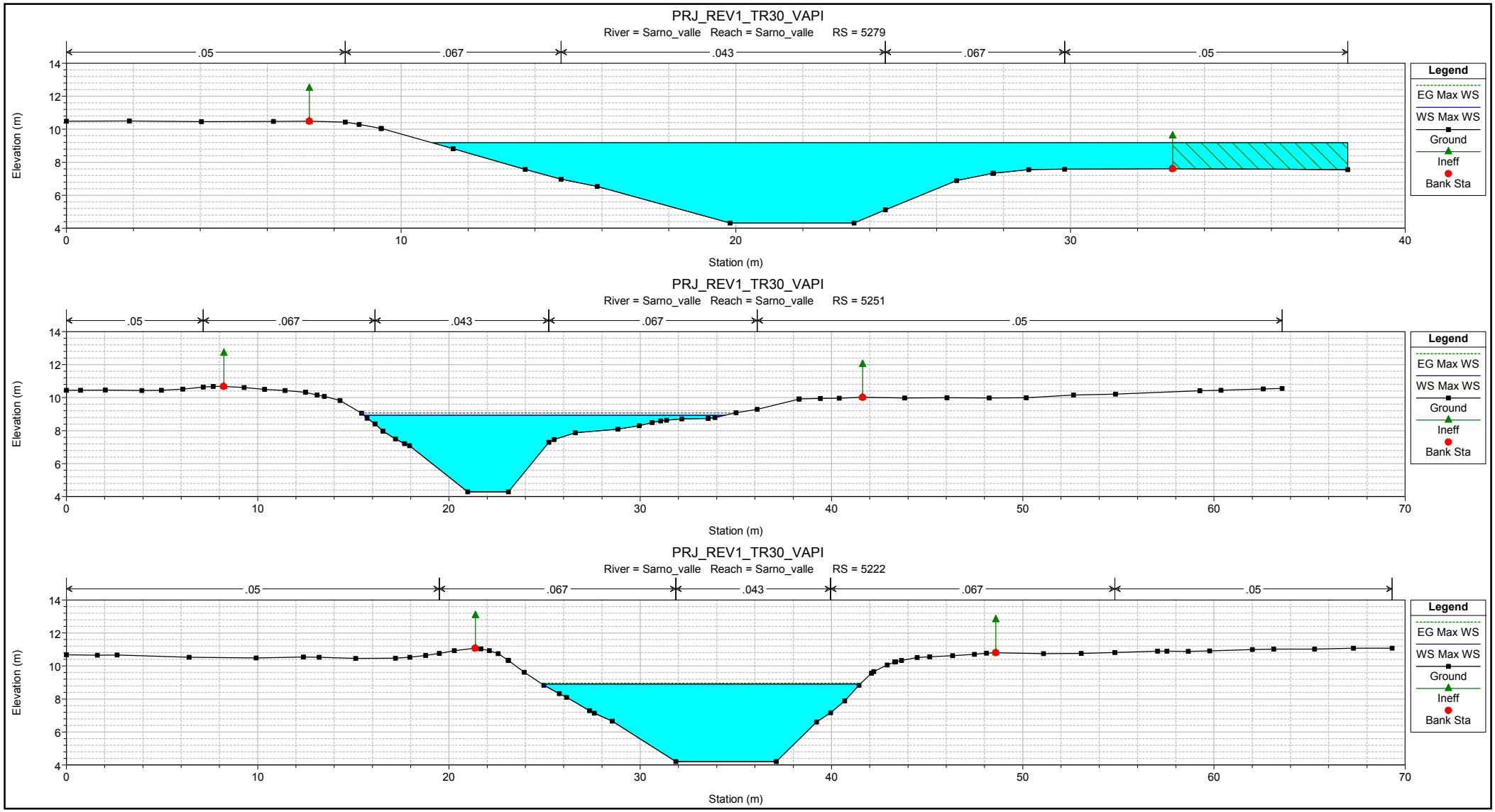

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6081
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6076
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6049
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

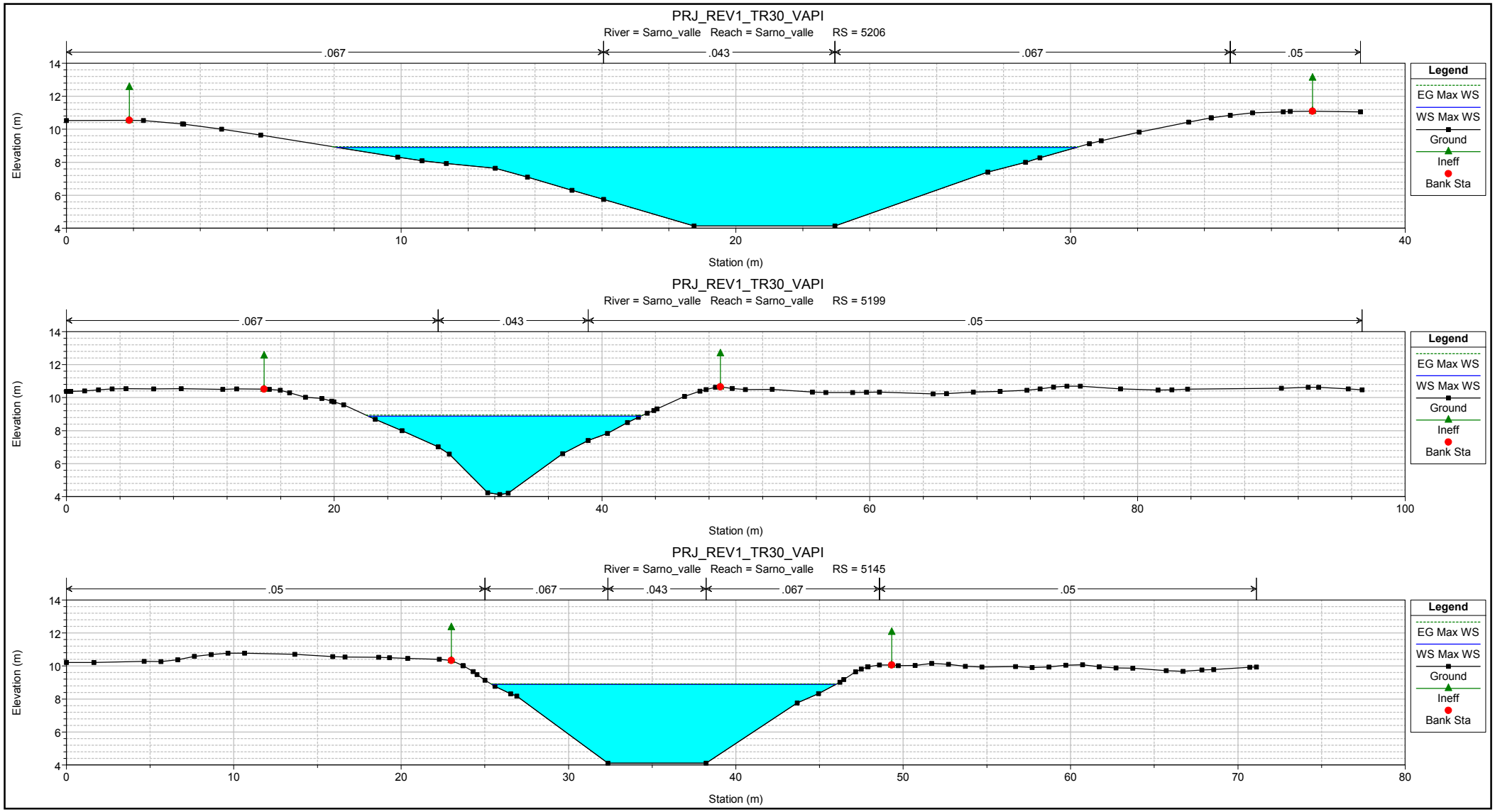

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5980
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5917
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5881
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

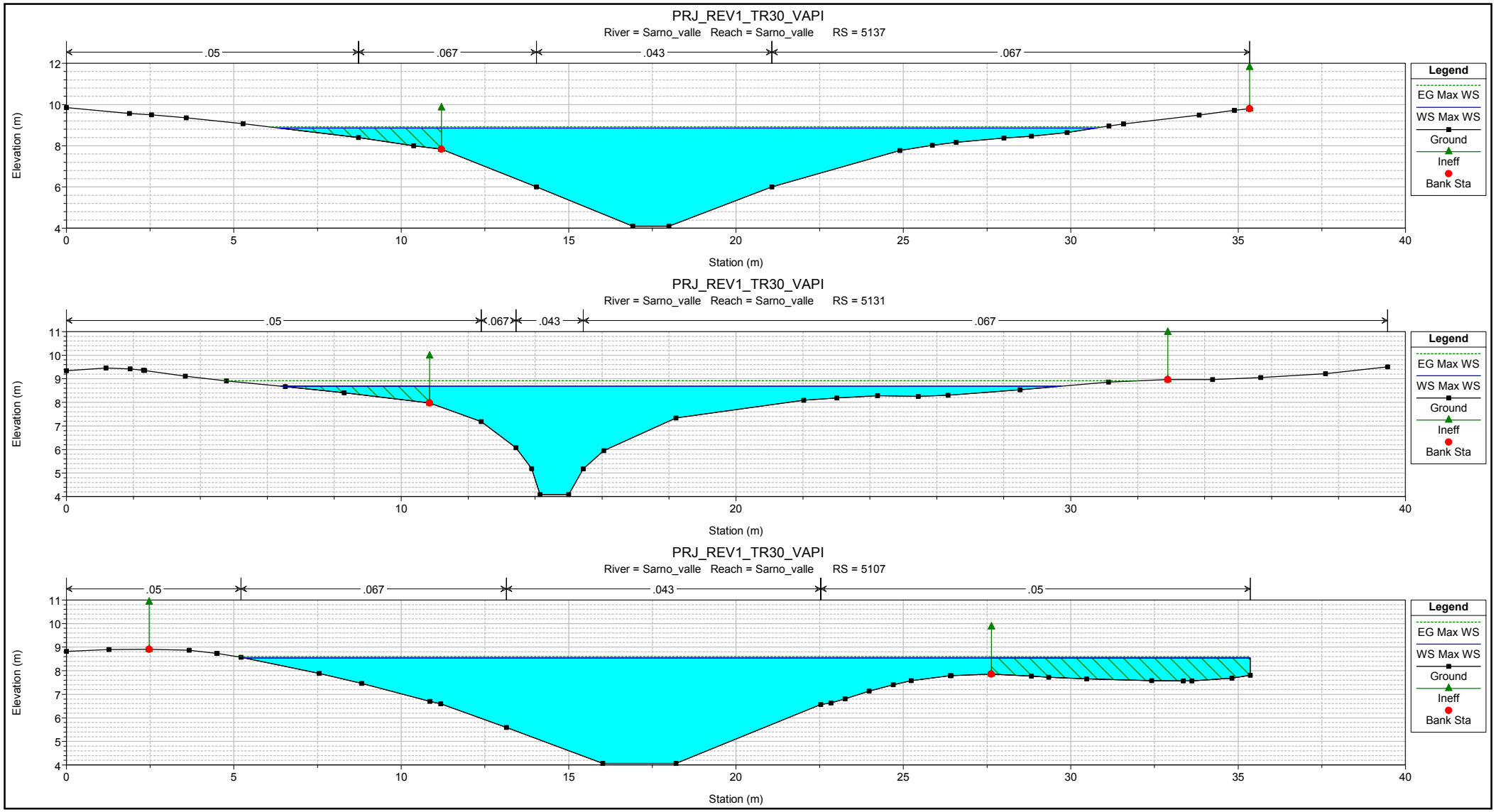

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5861
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5812
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5744
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

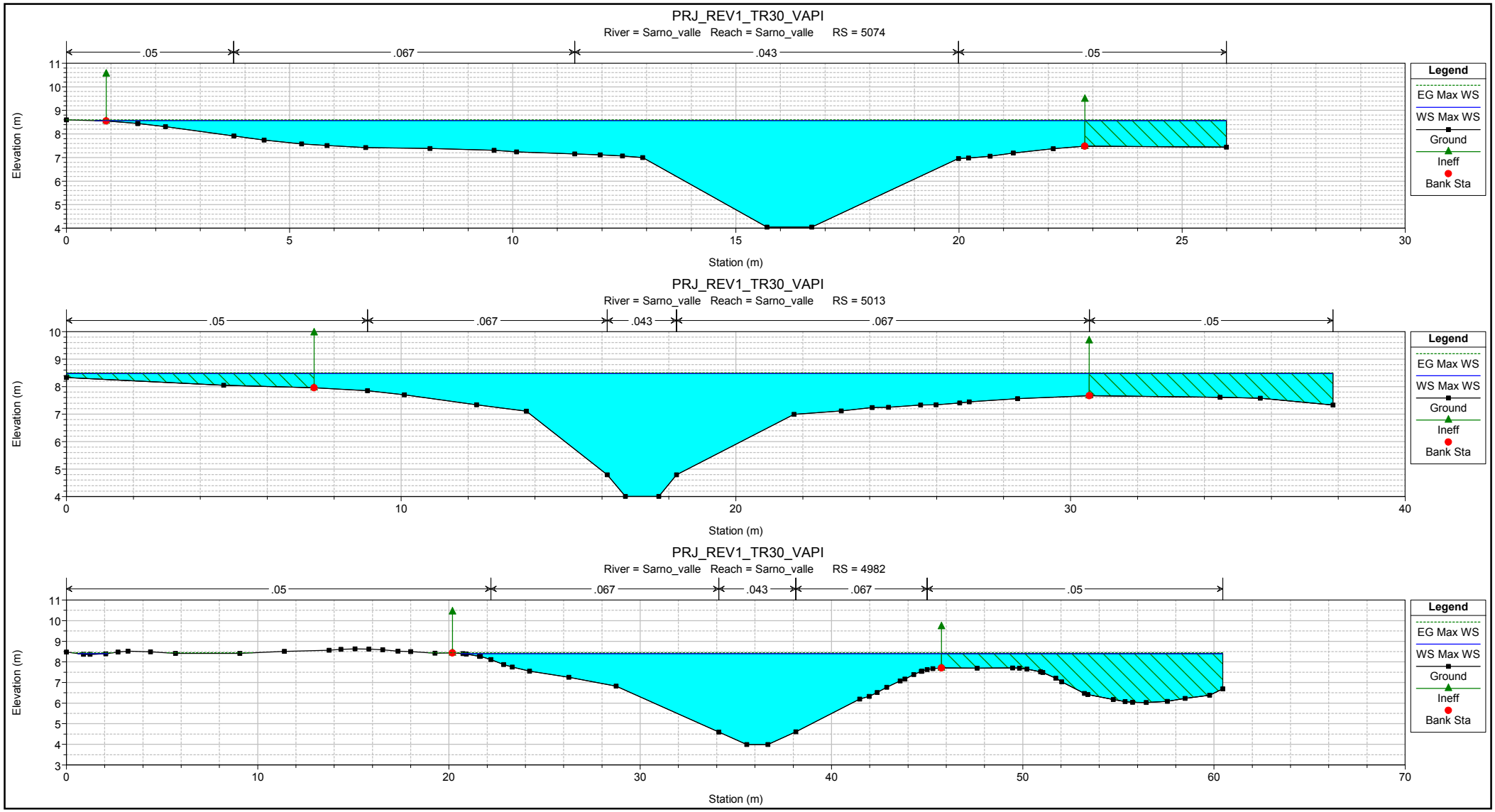

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5662
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5604
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5552
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

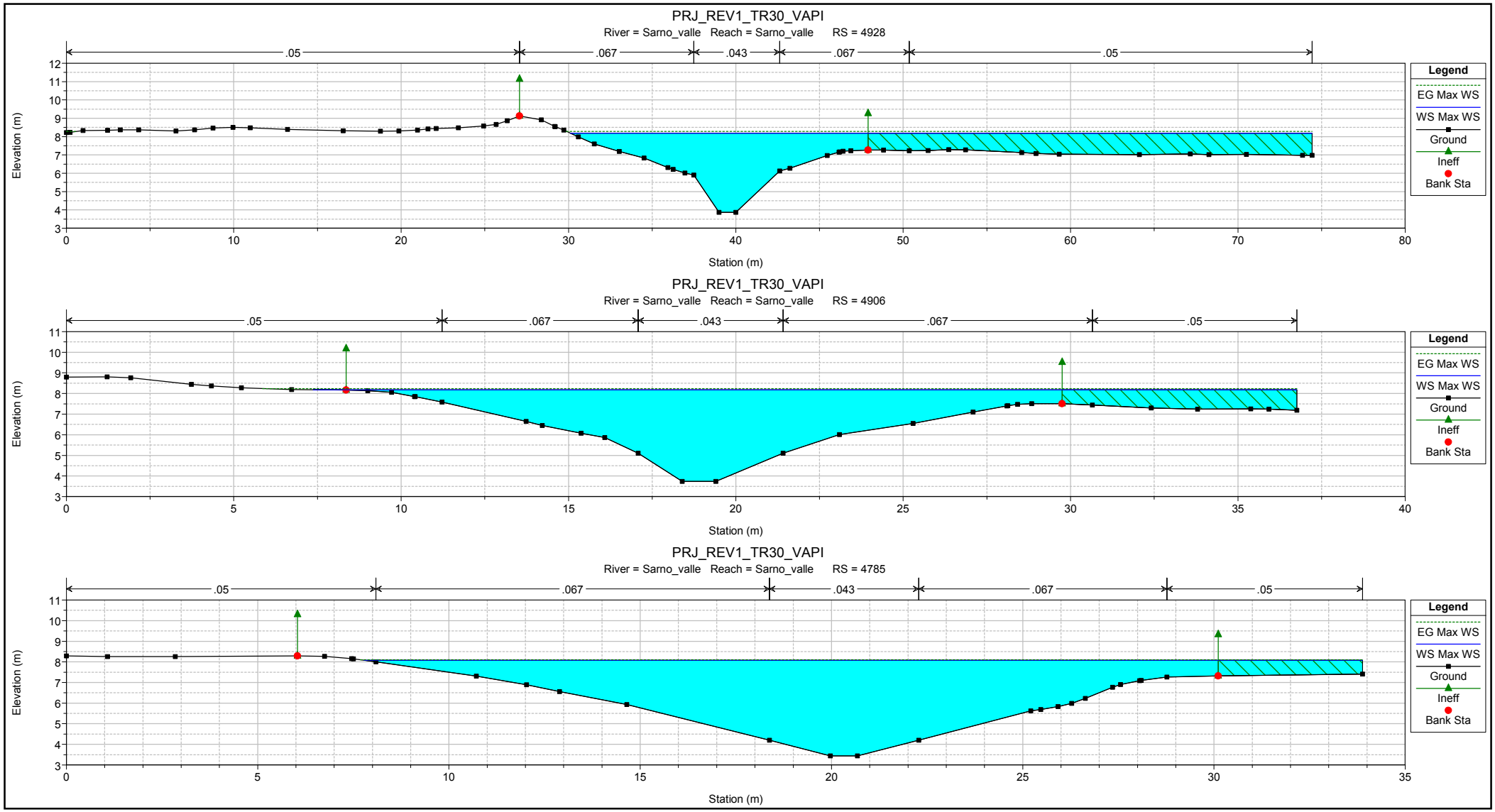

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5478
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5415
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5359
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

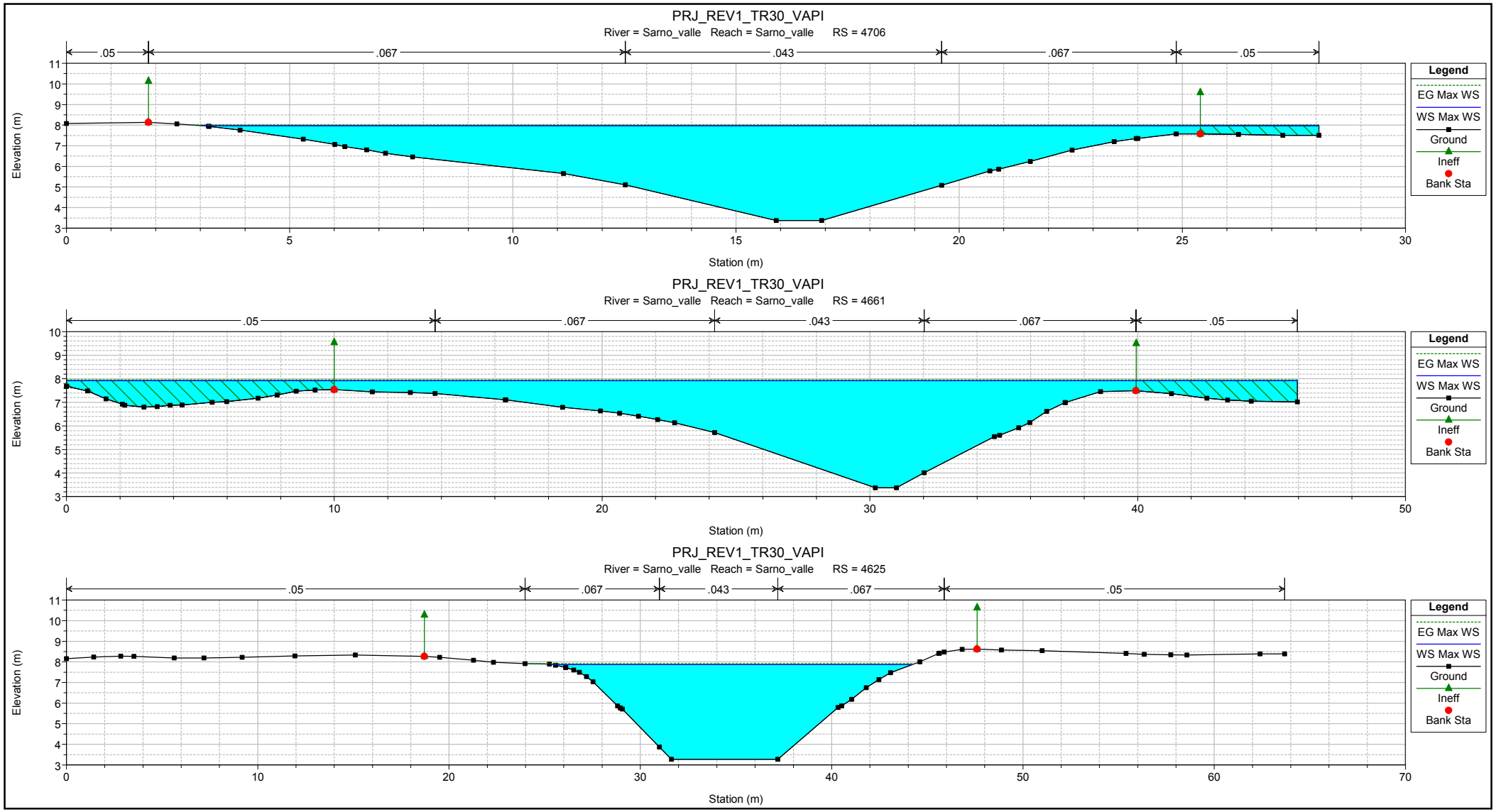

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5279
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5251
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5222
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

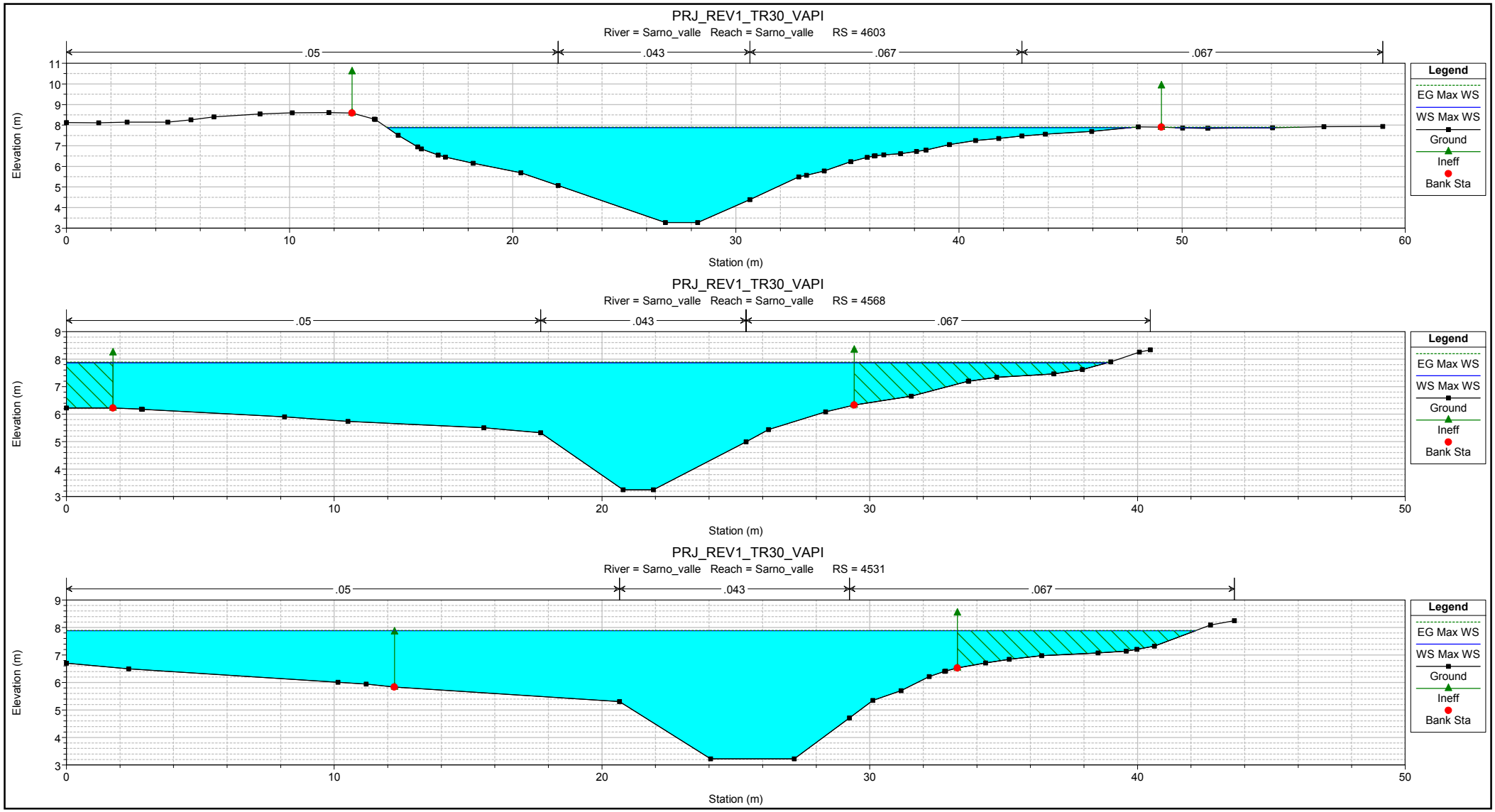

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5206
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5199
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5145
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

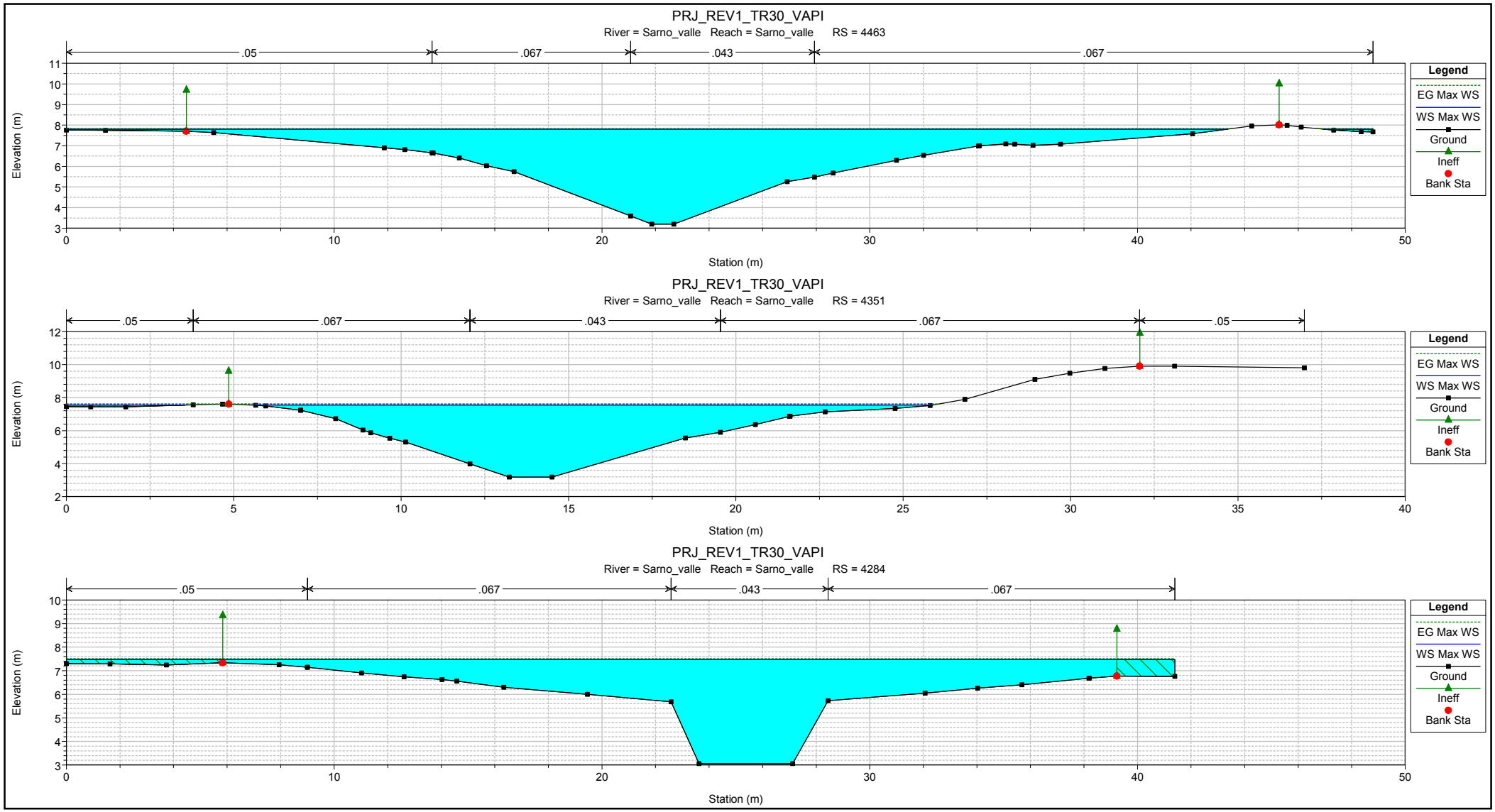

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5137
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5131
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5107
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

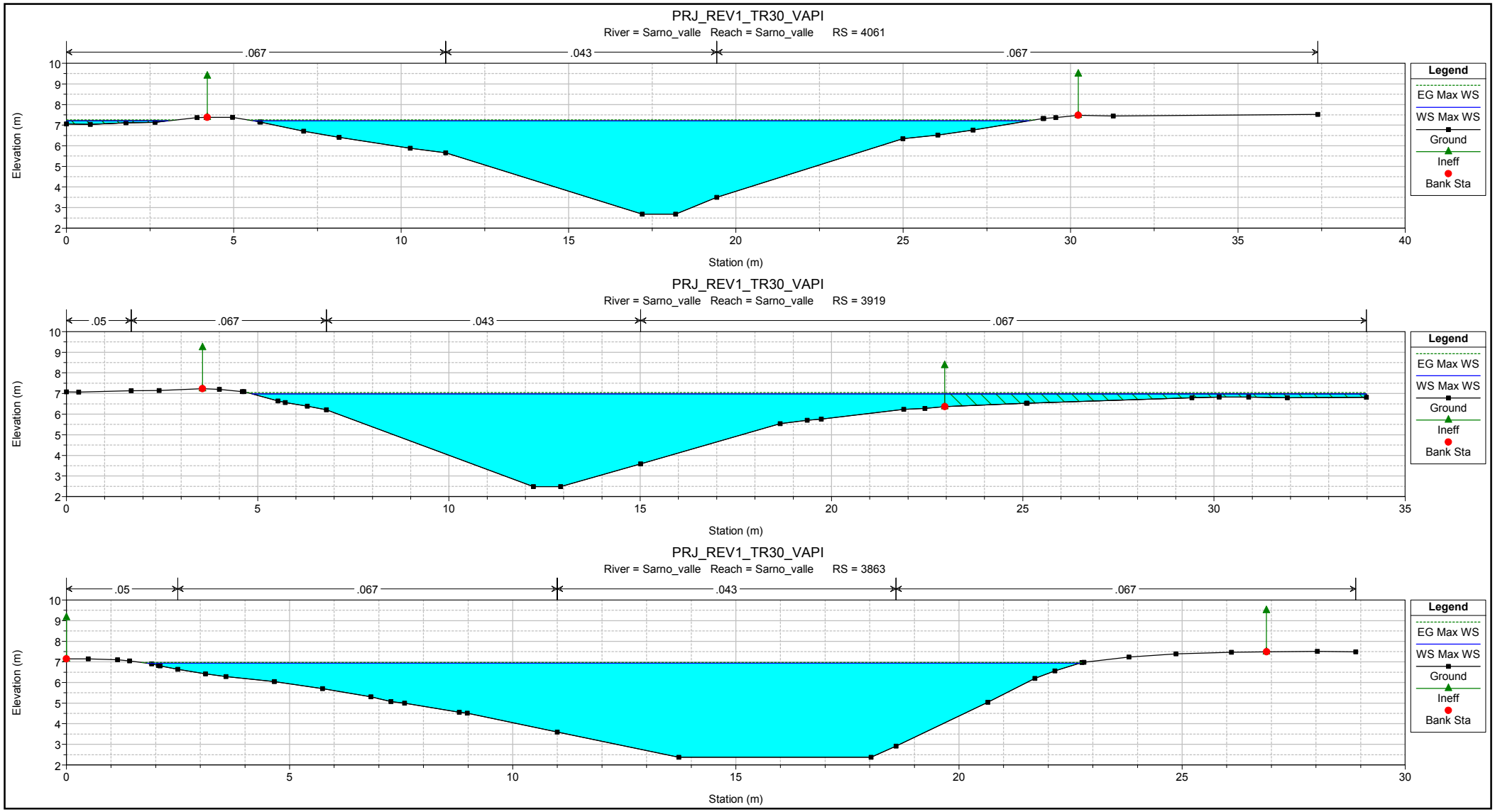

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5074
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5013
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4982
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

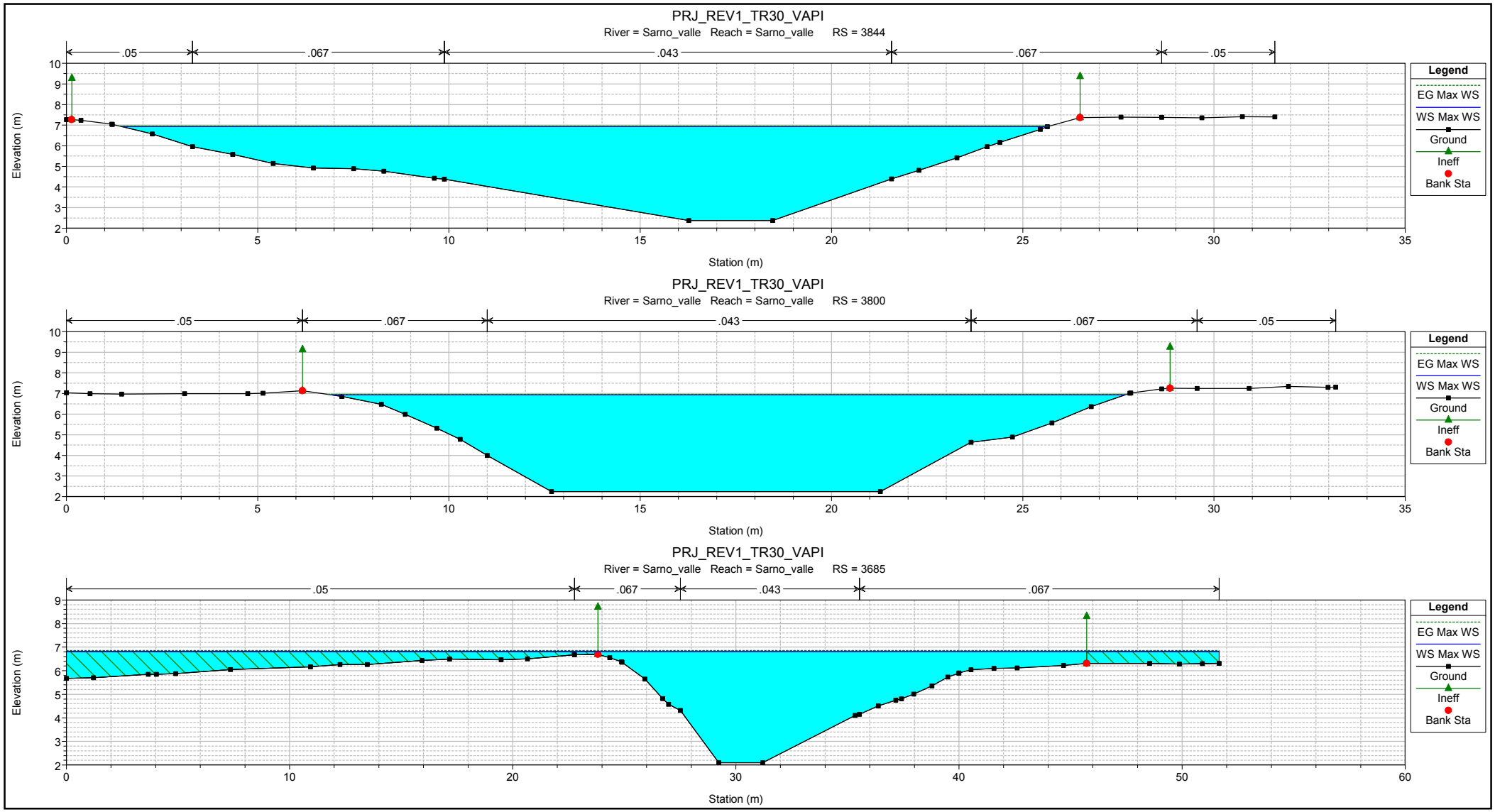

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4928
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4906
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4785
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

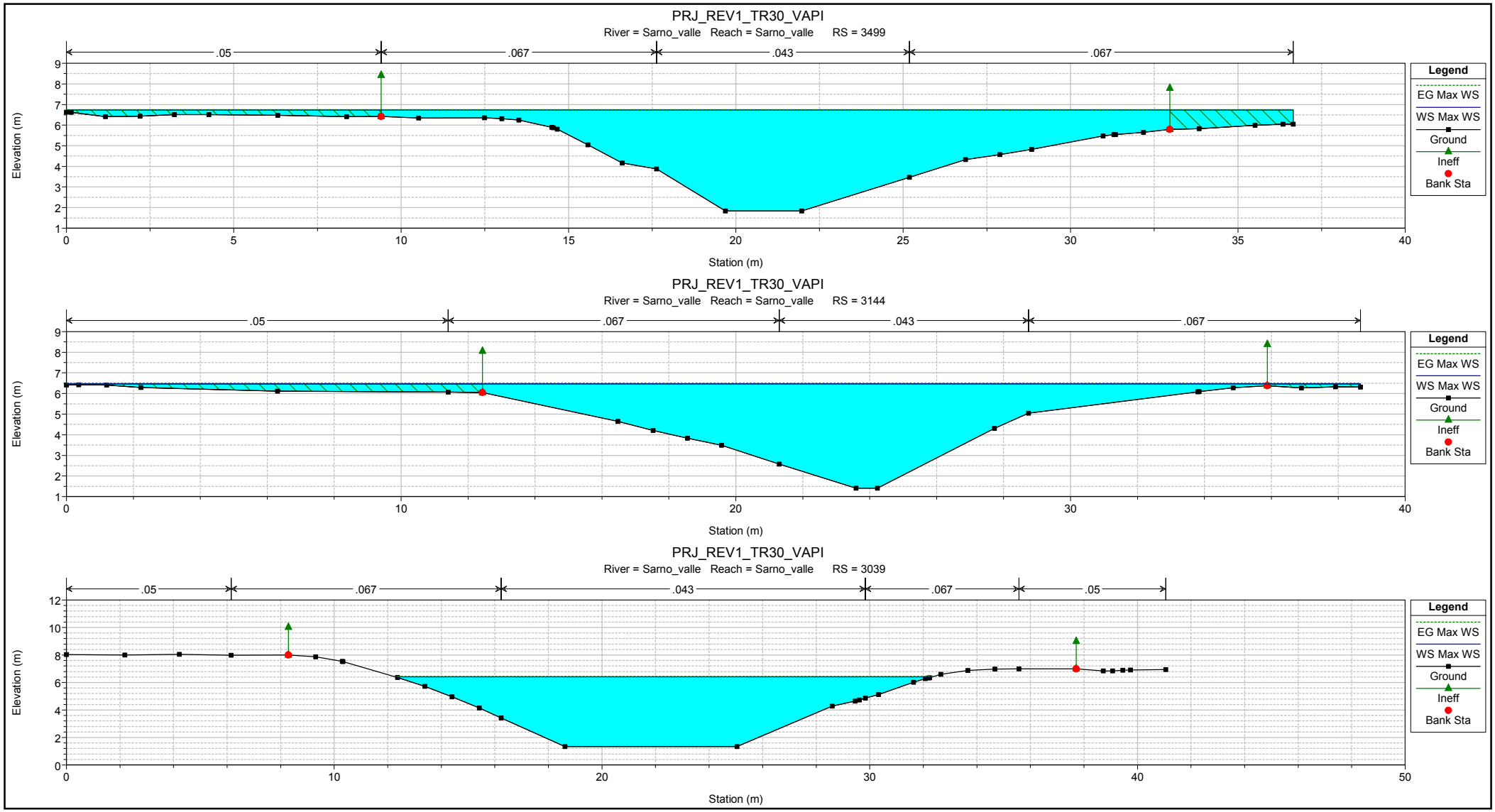

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4706
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4661
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4625
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

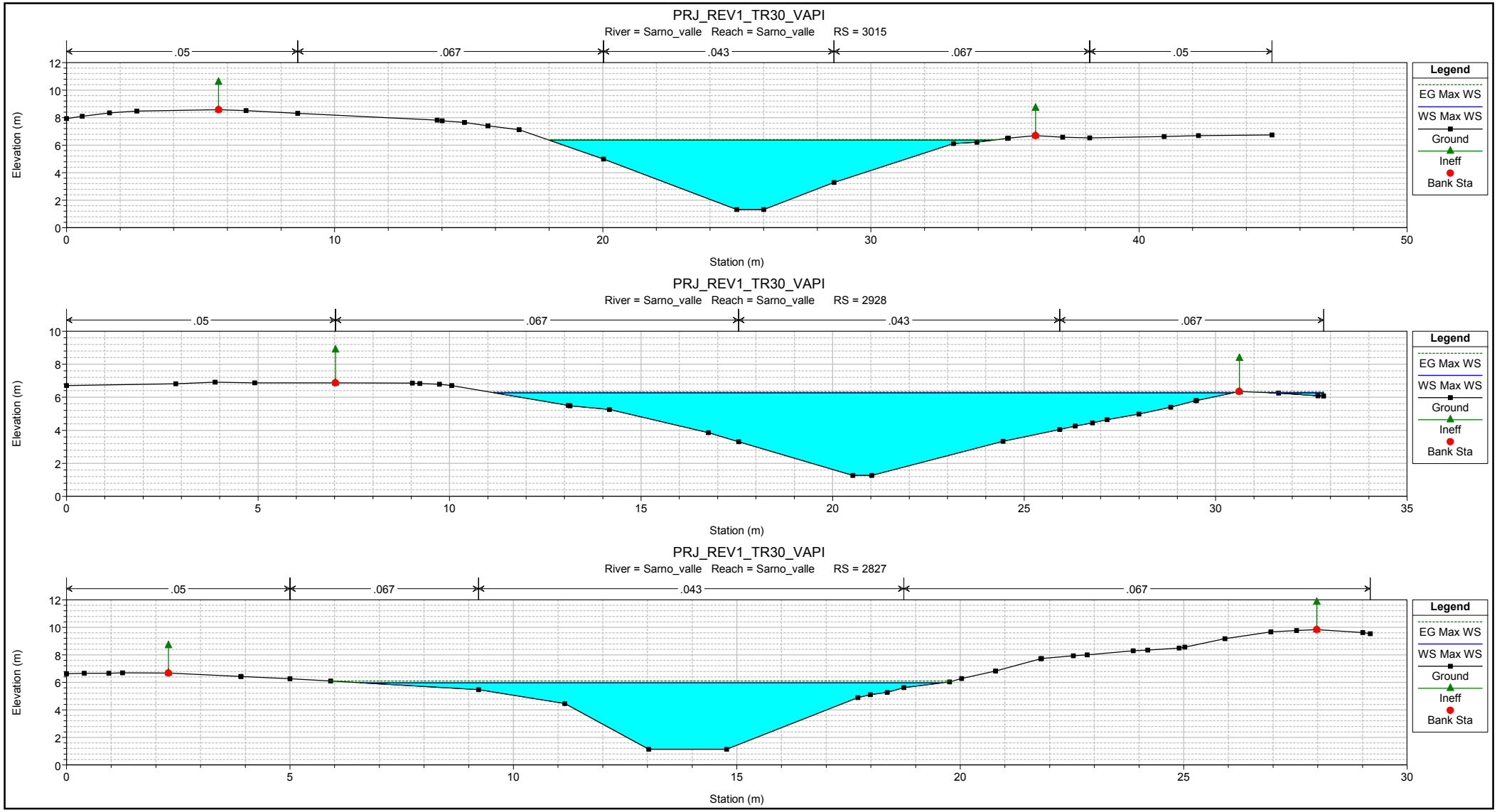

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4603
.05
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4568
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4531
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

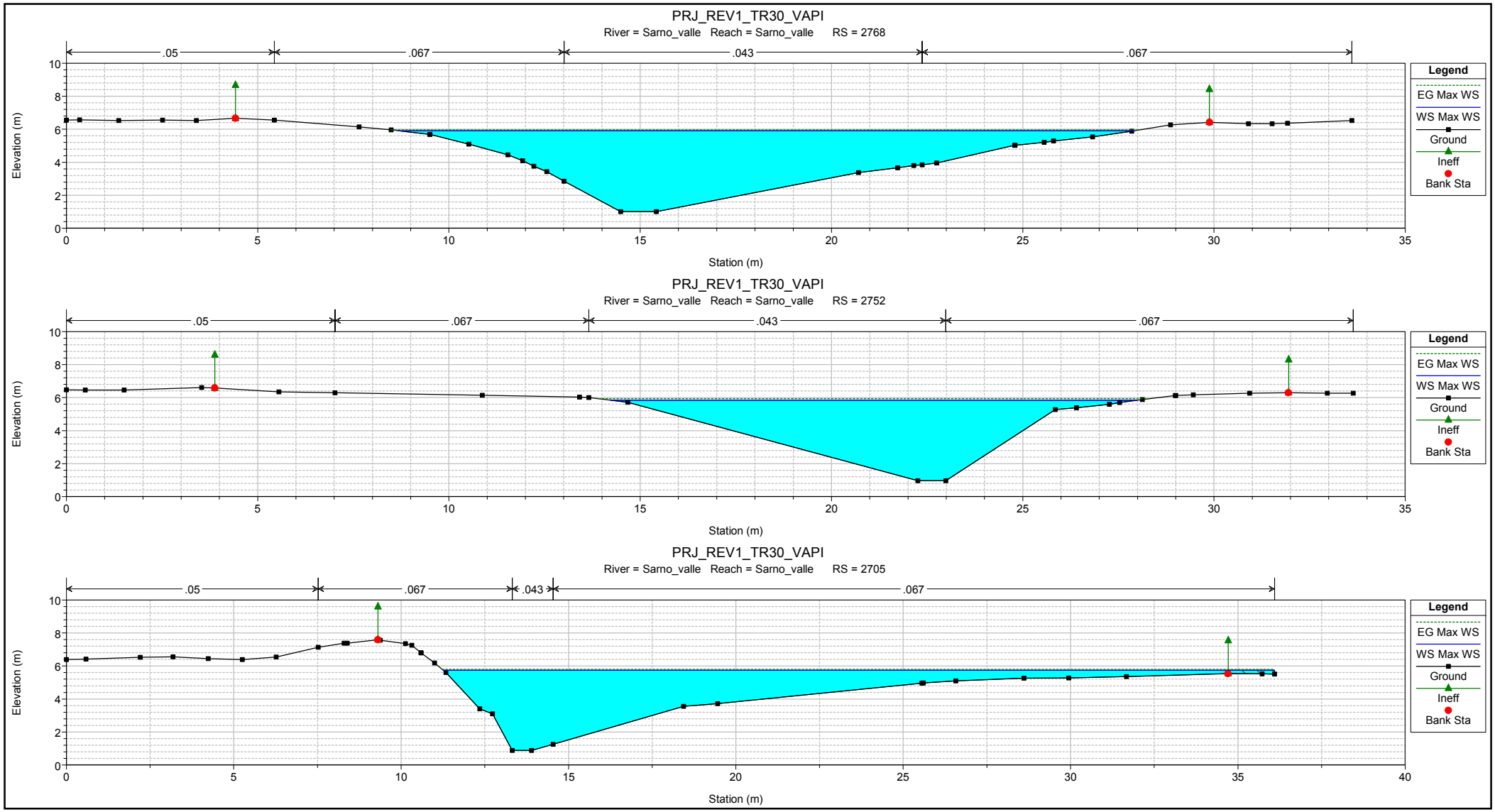

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4463
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4284
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

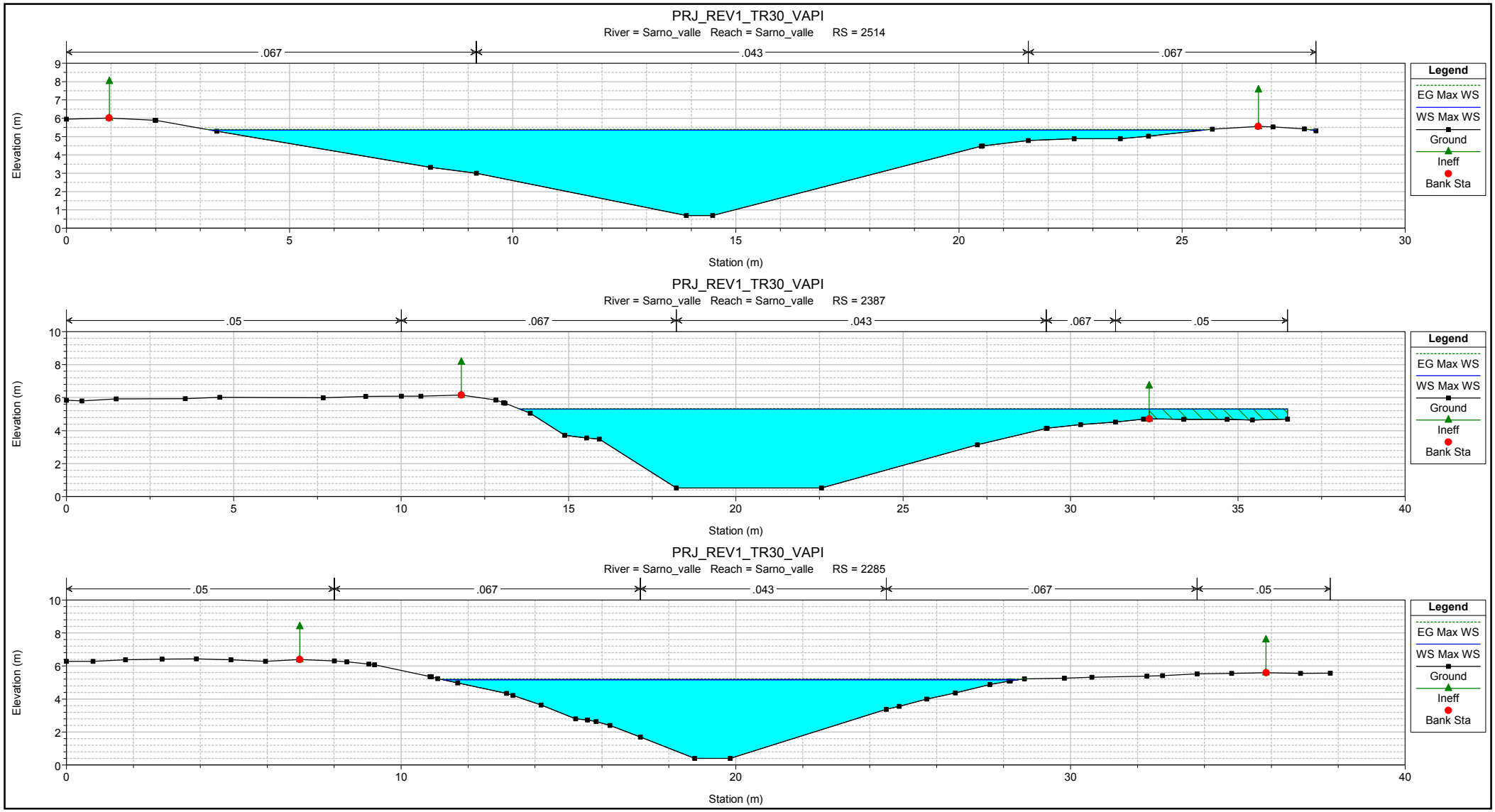

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4061
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3919
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3863
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

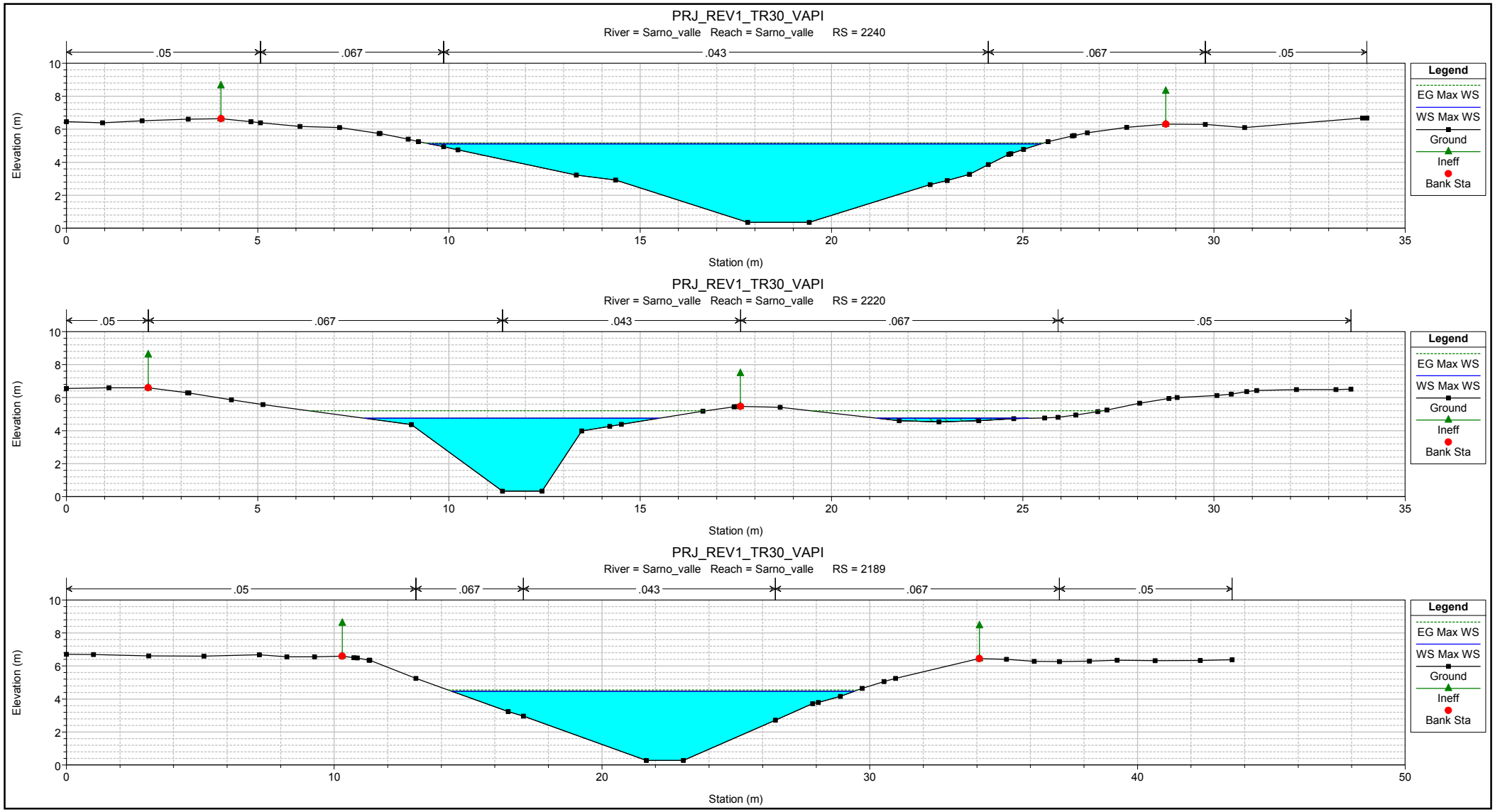

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3844
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3800
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3685
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

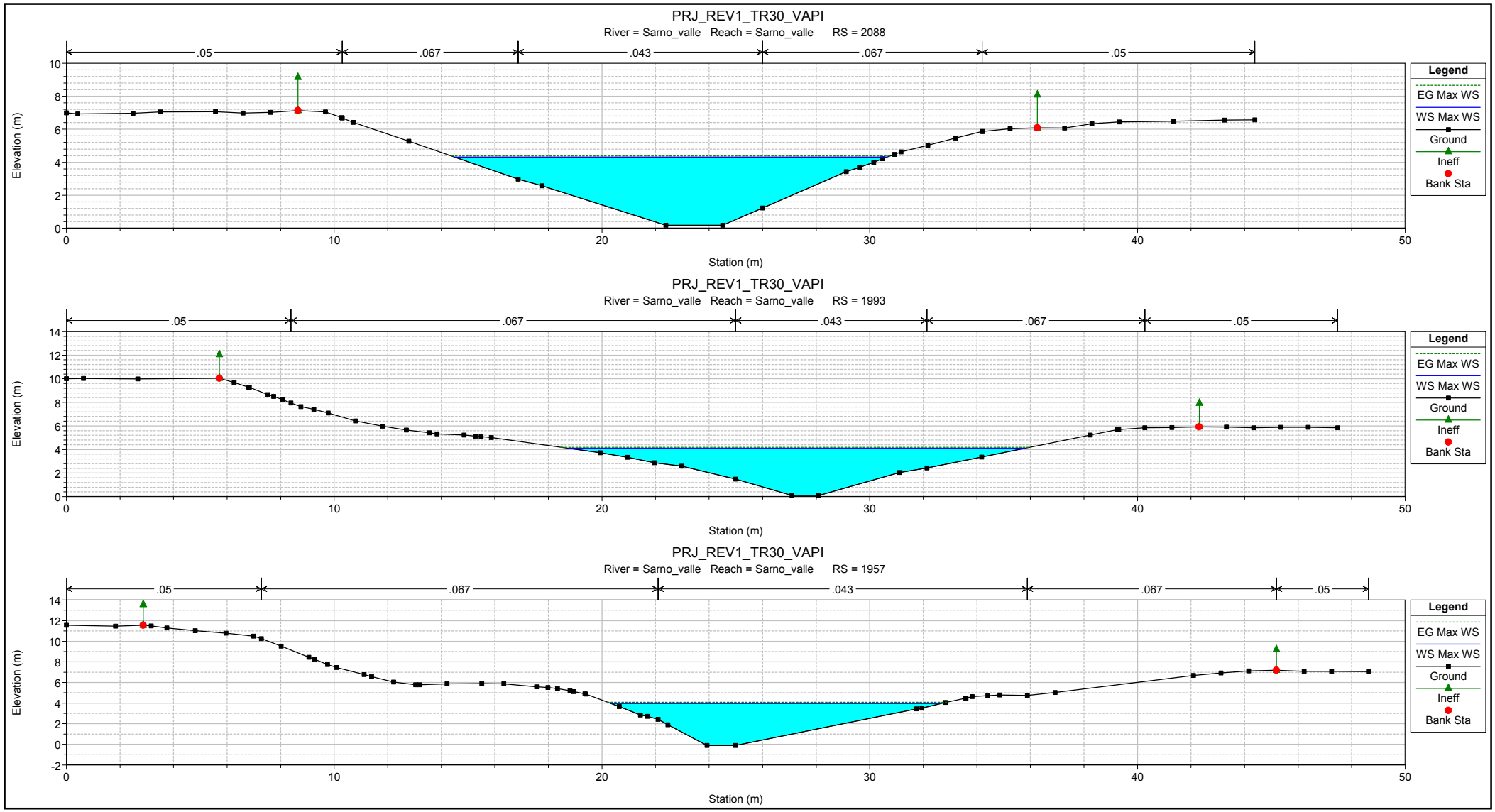

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3499
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3144
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3039
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

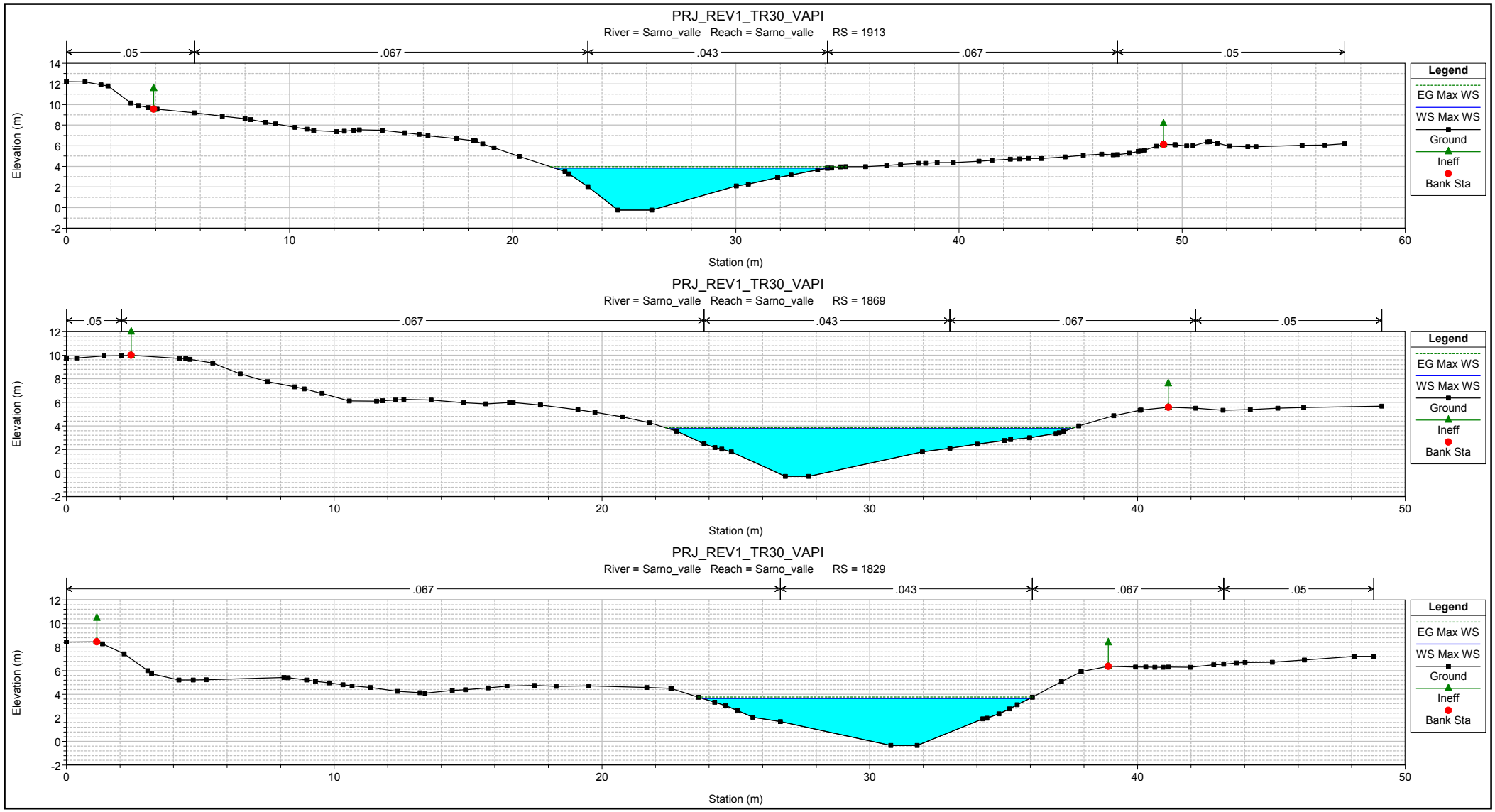

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3015
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2928
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2827
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

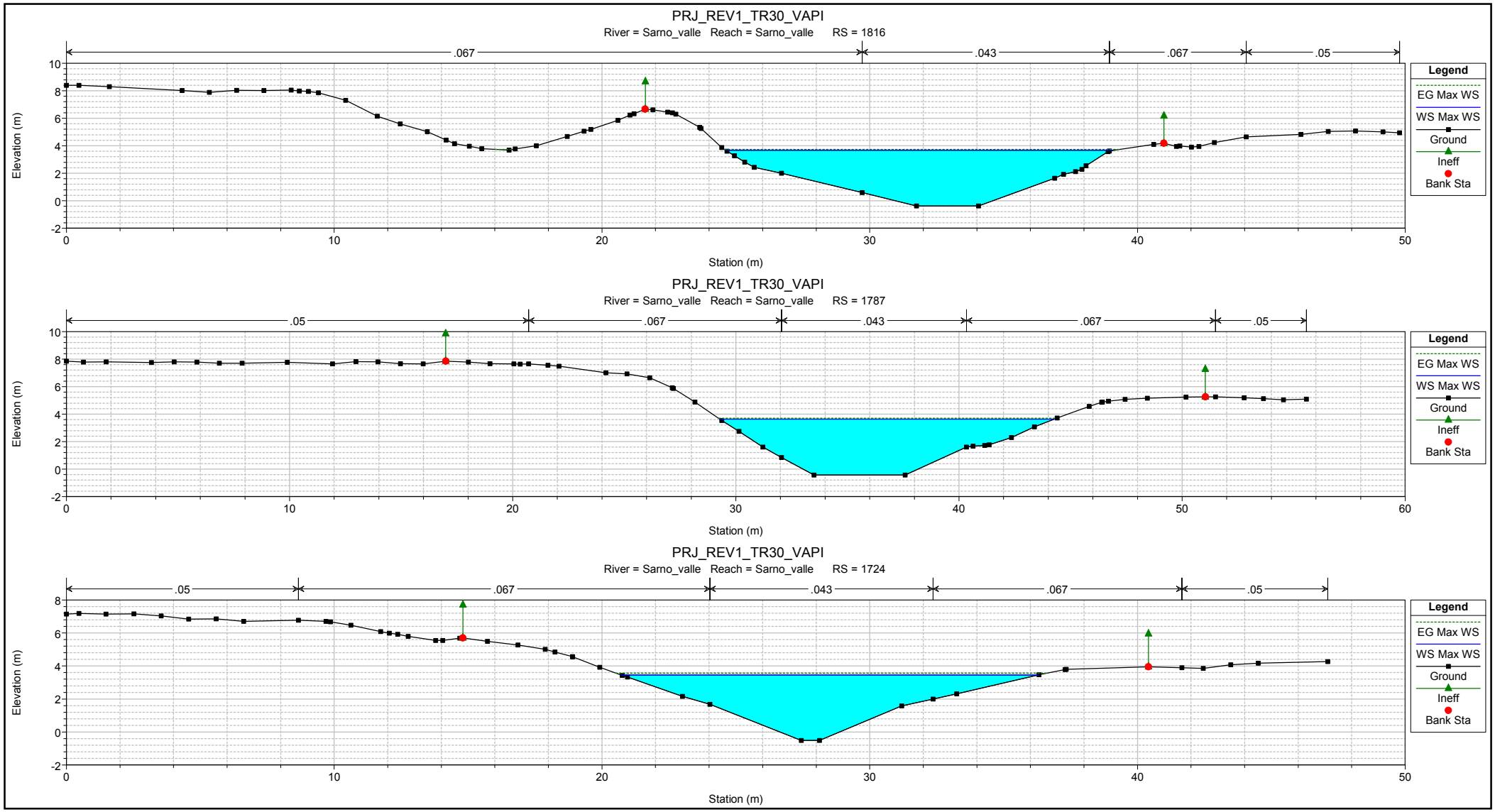

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2768
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2752
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2705
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

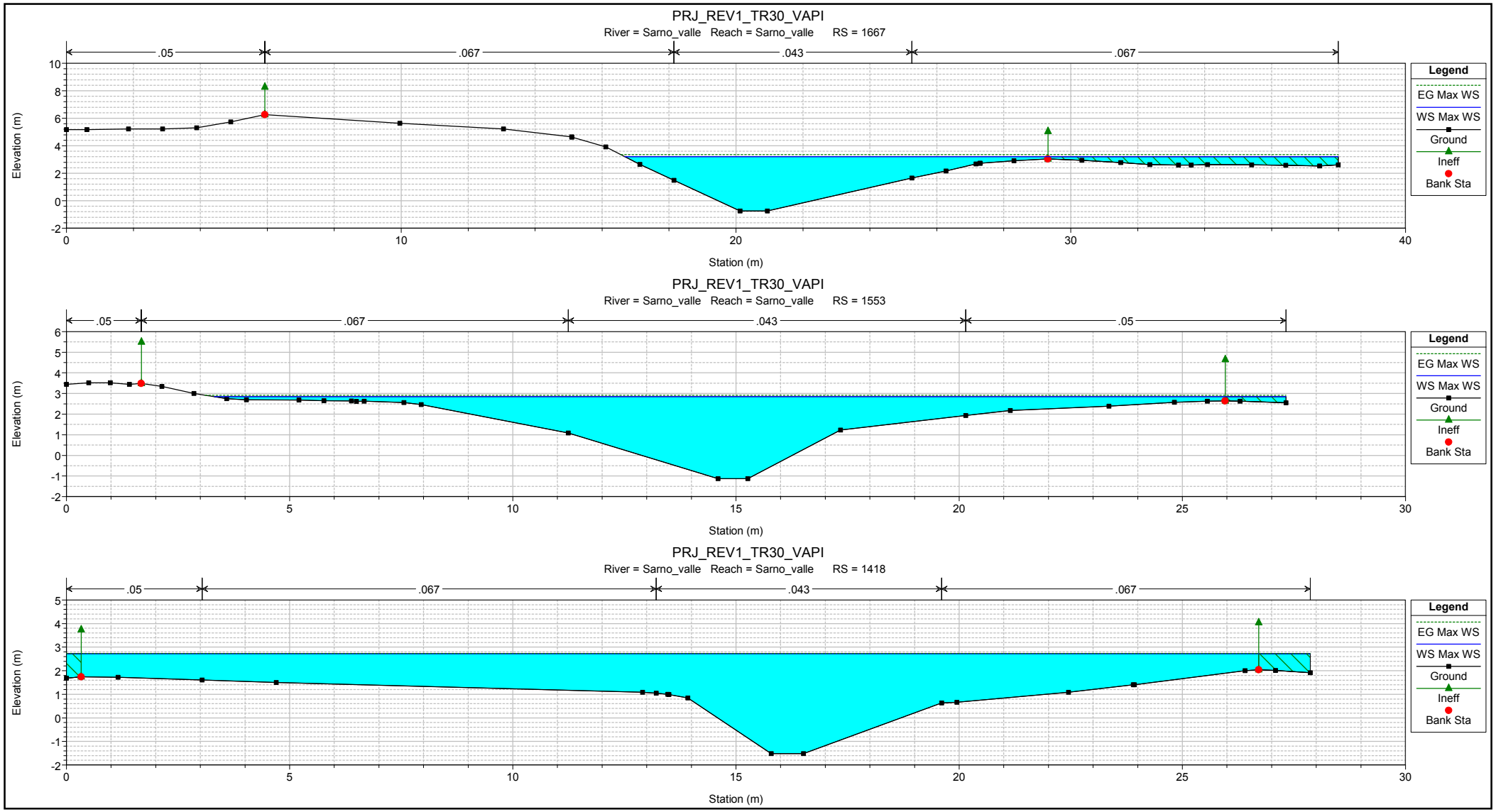

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2514
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2387
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2285
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

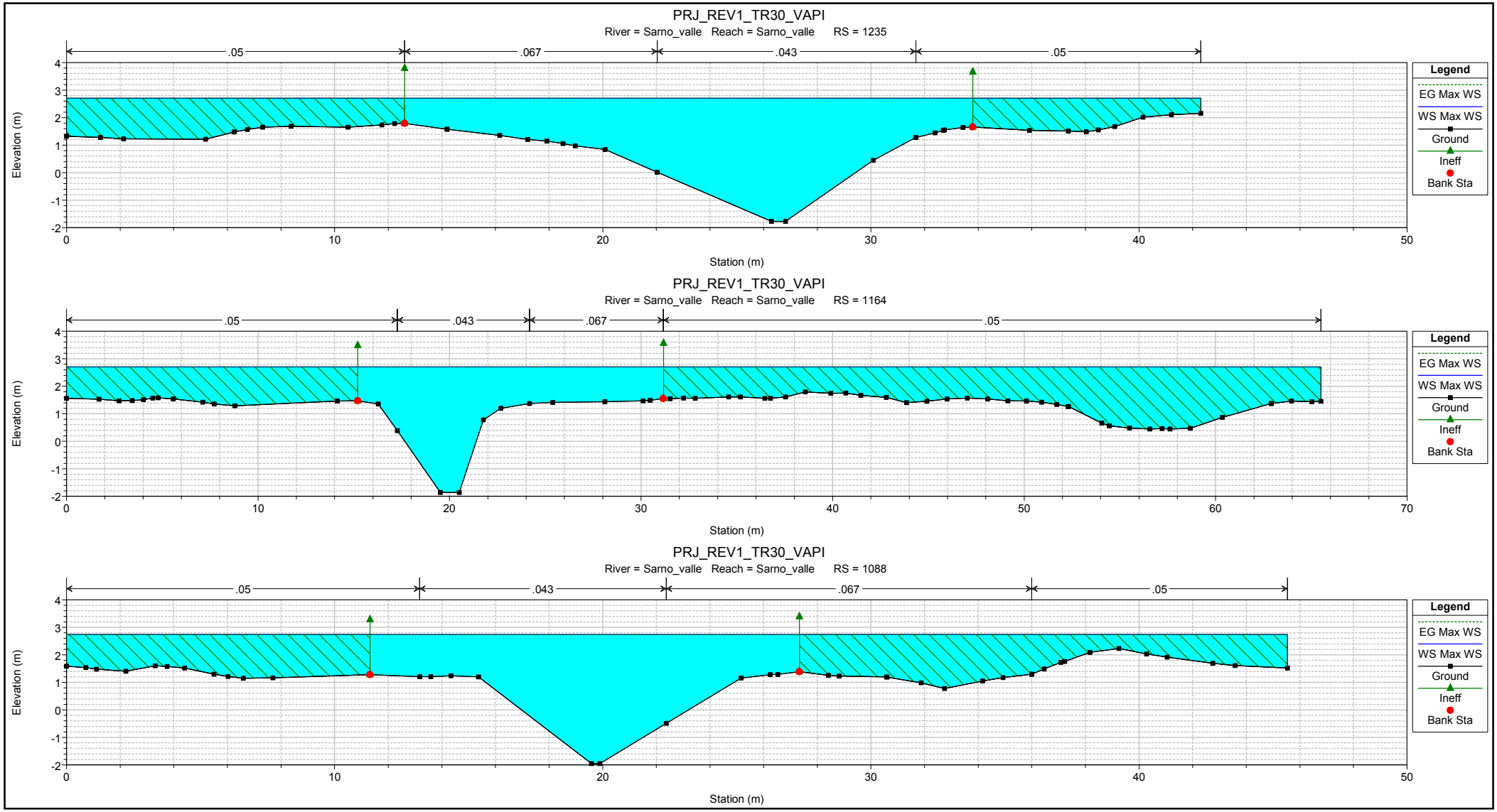

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2240
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2189
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

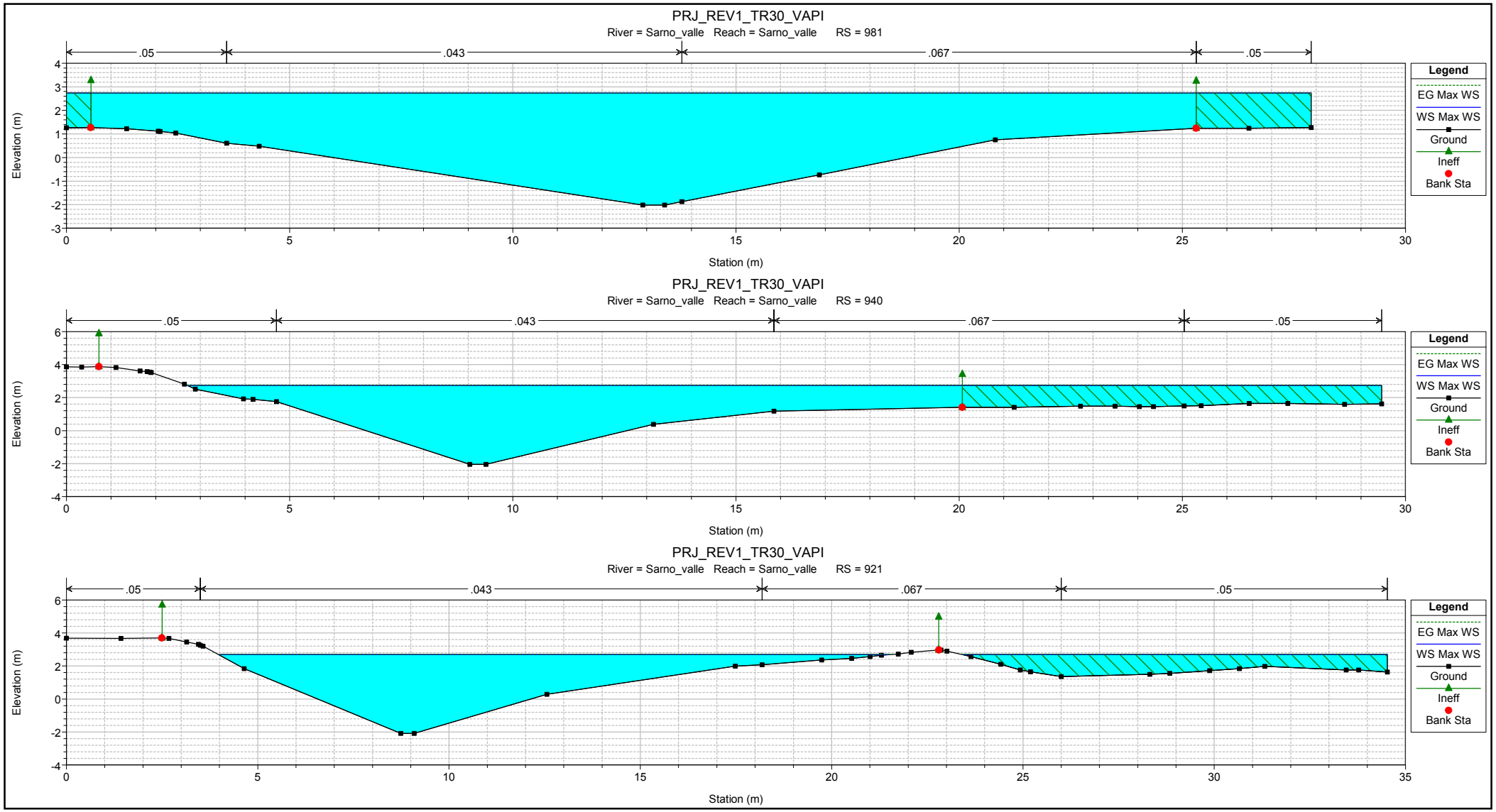

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2088
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1993
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1957
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

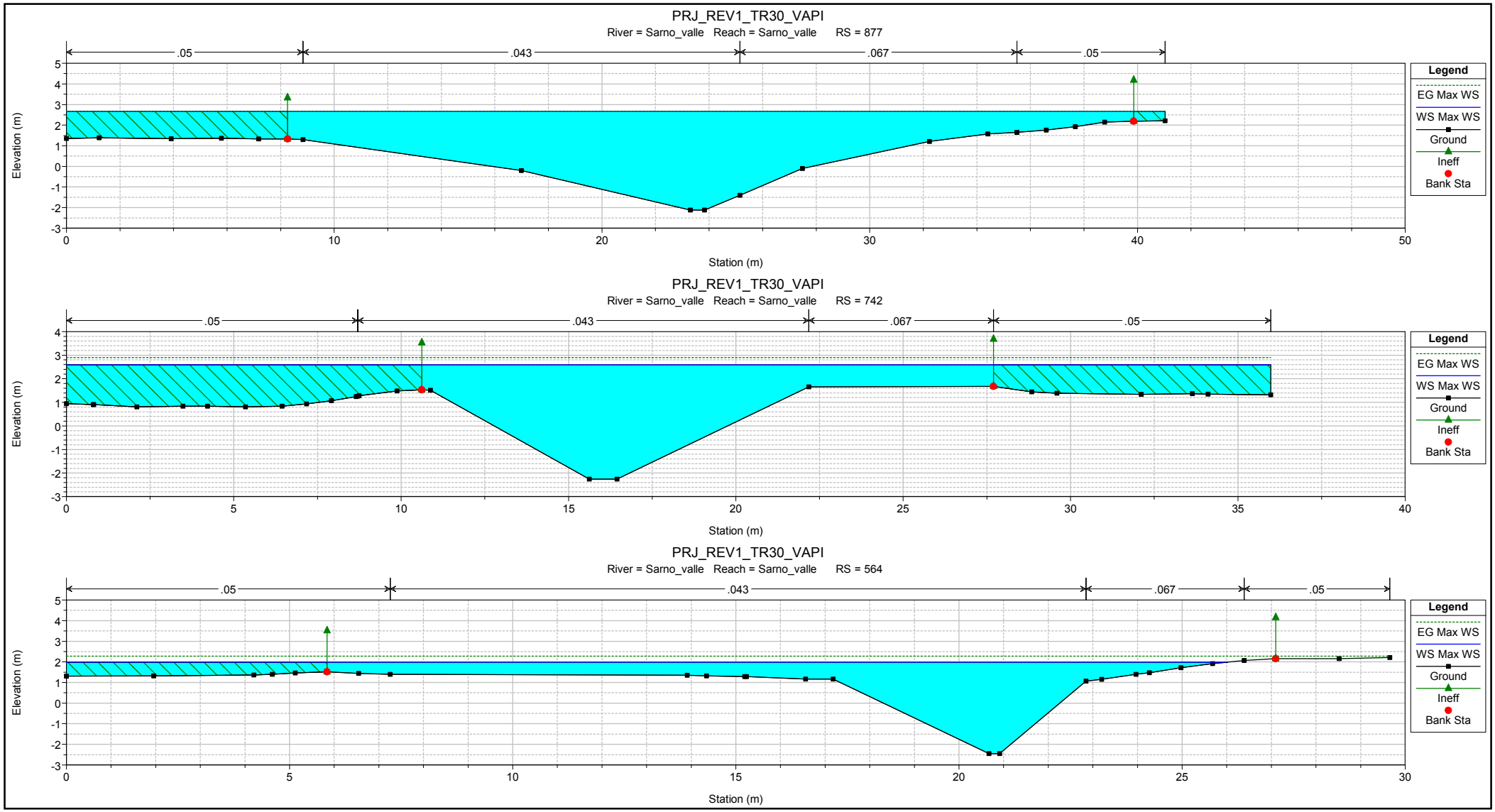

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1913
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1869
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1829
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

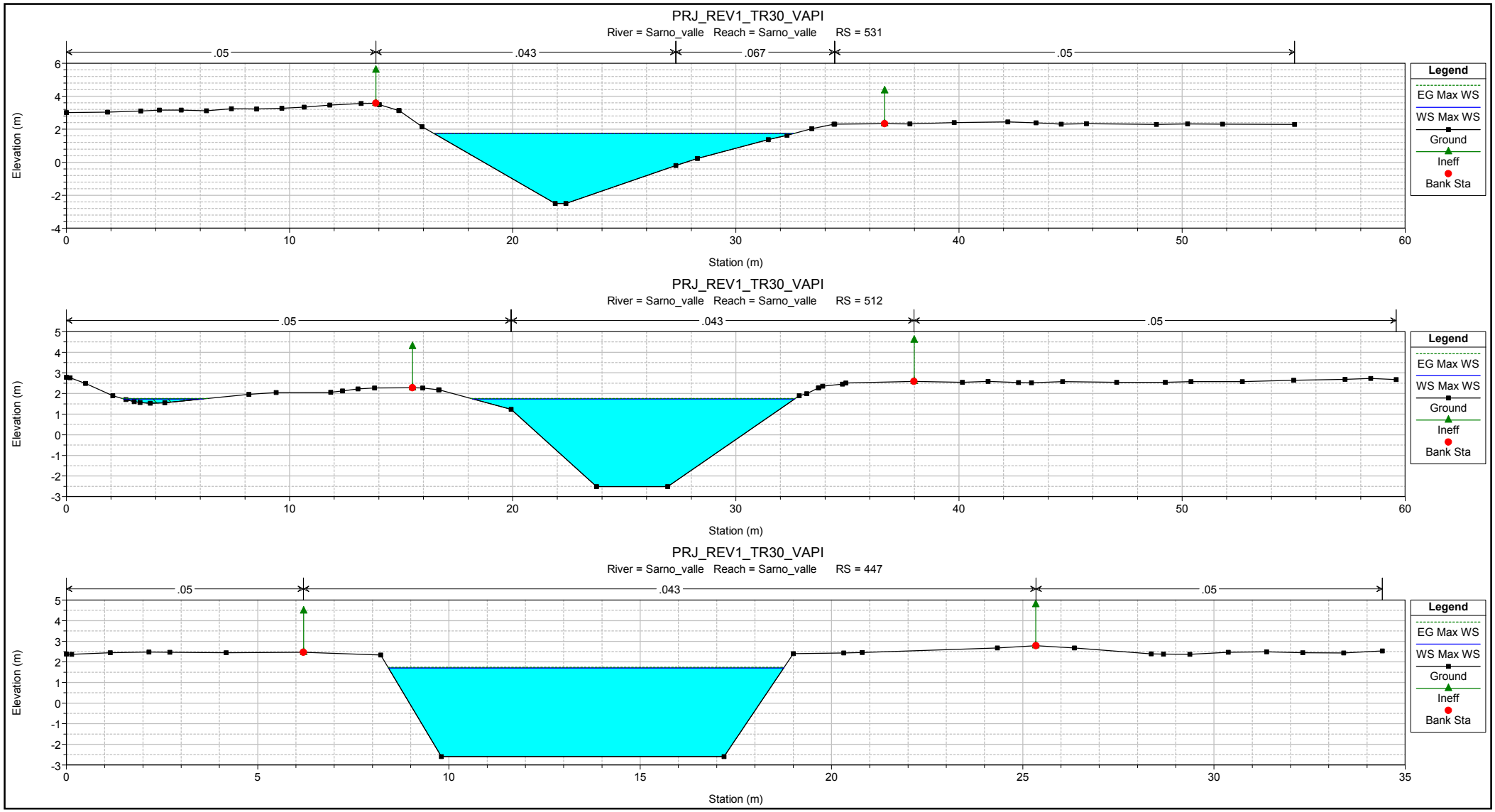

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1816
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1787
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1724
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

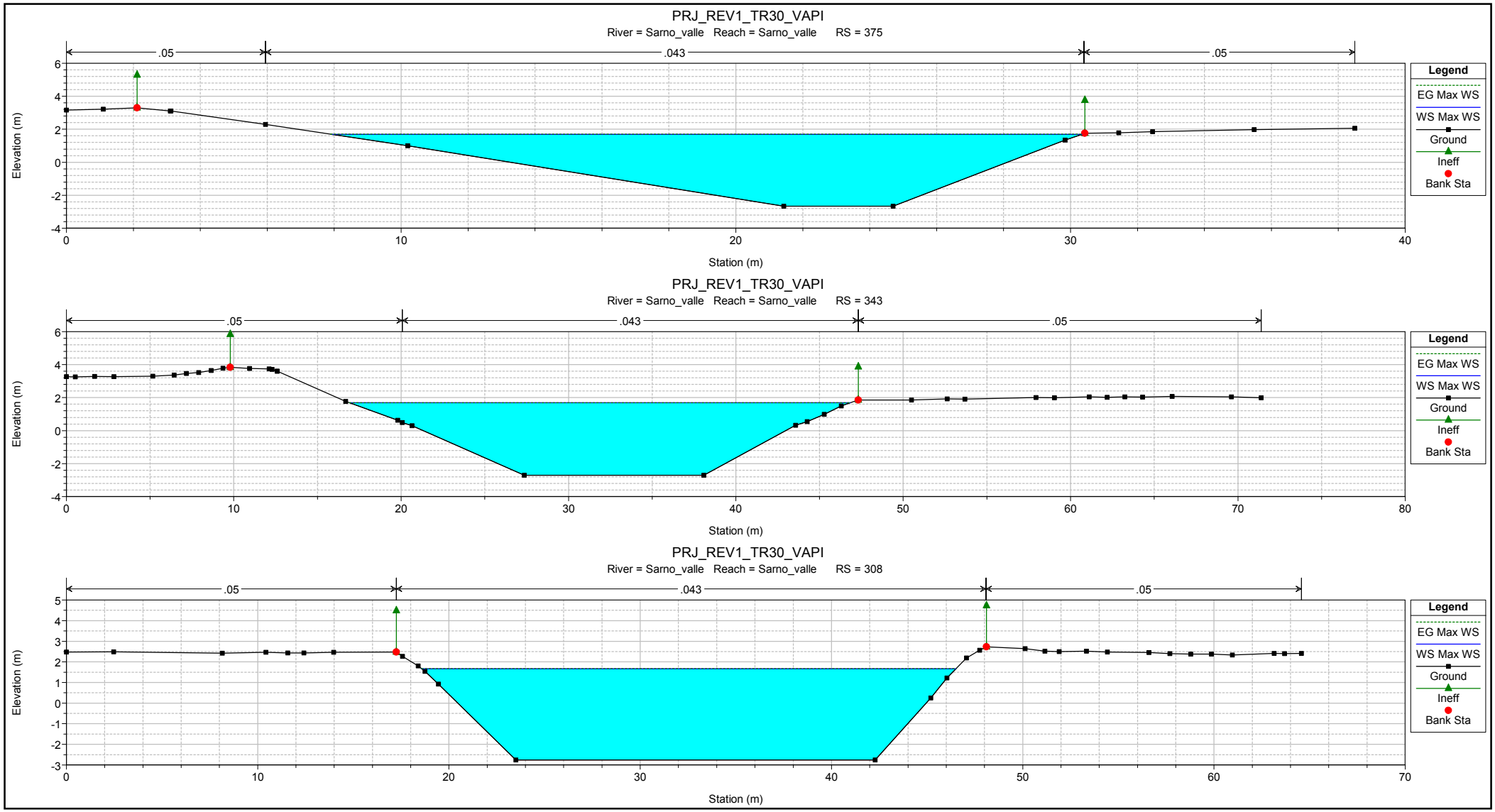

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1667
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1553
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1418
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

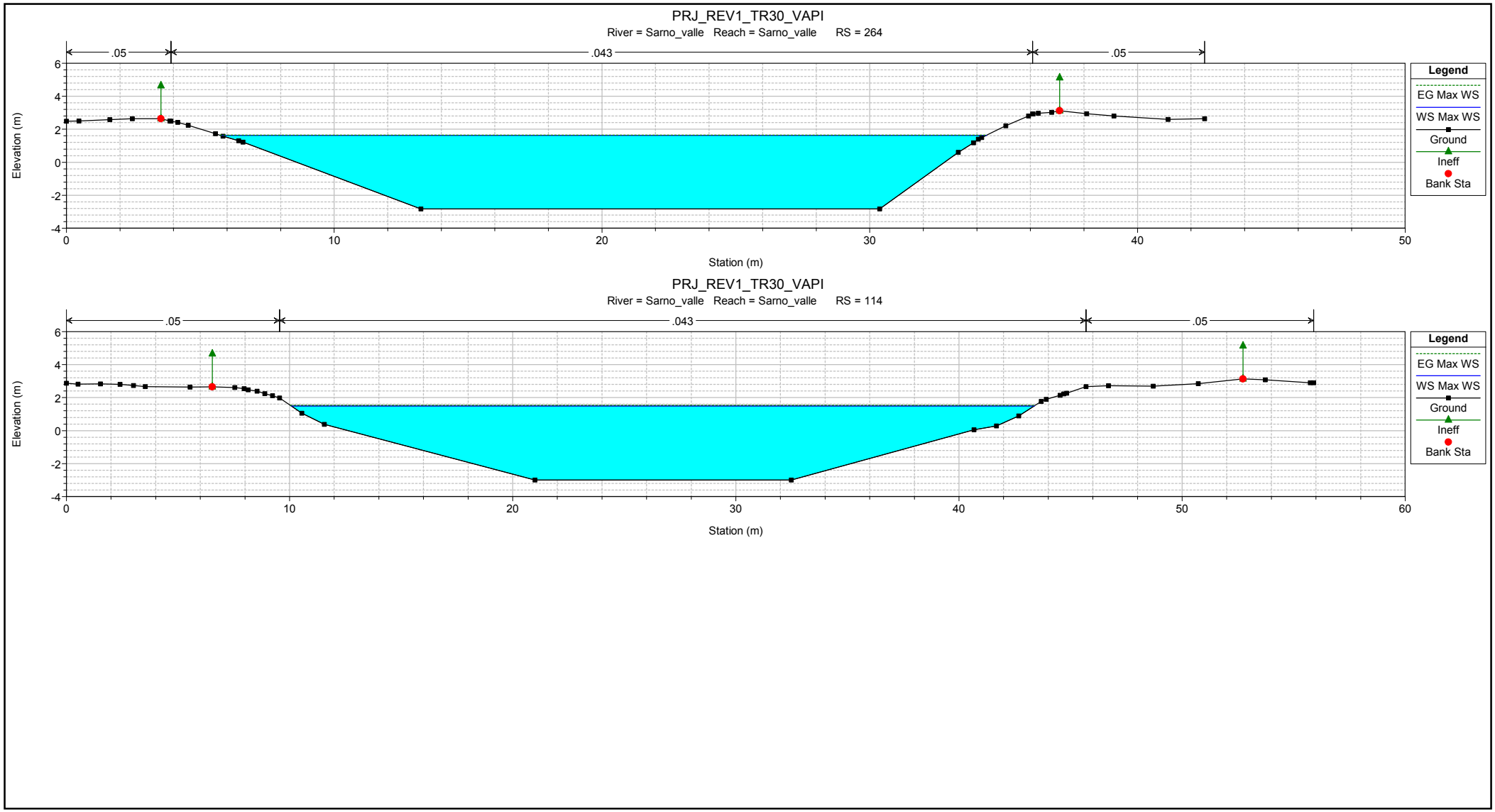

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1235
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1164
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1088
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 981
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 940
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 921
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

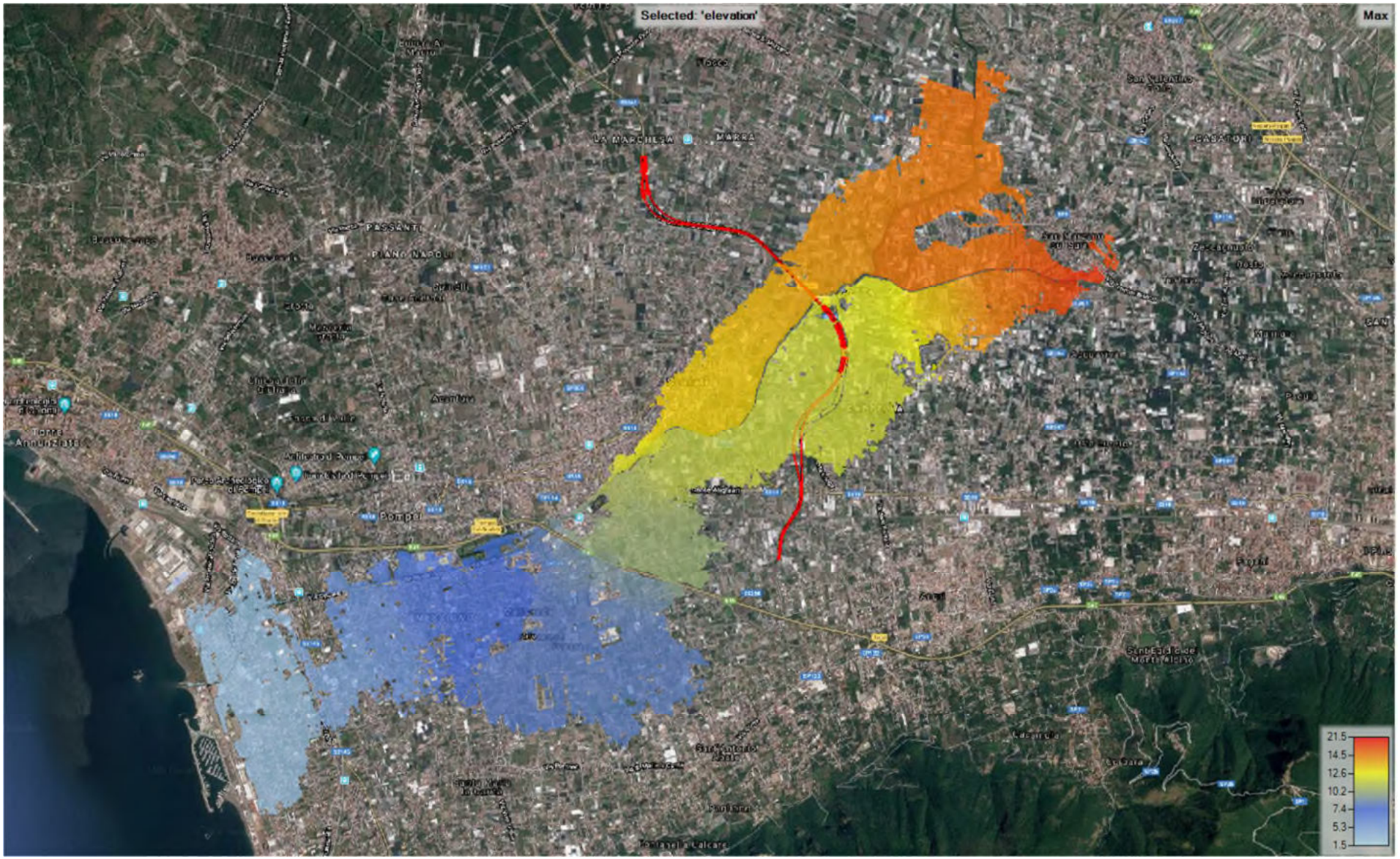

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 877
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 742
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 564
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 531
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 512
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 447
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

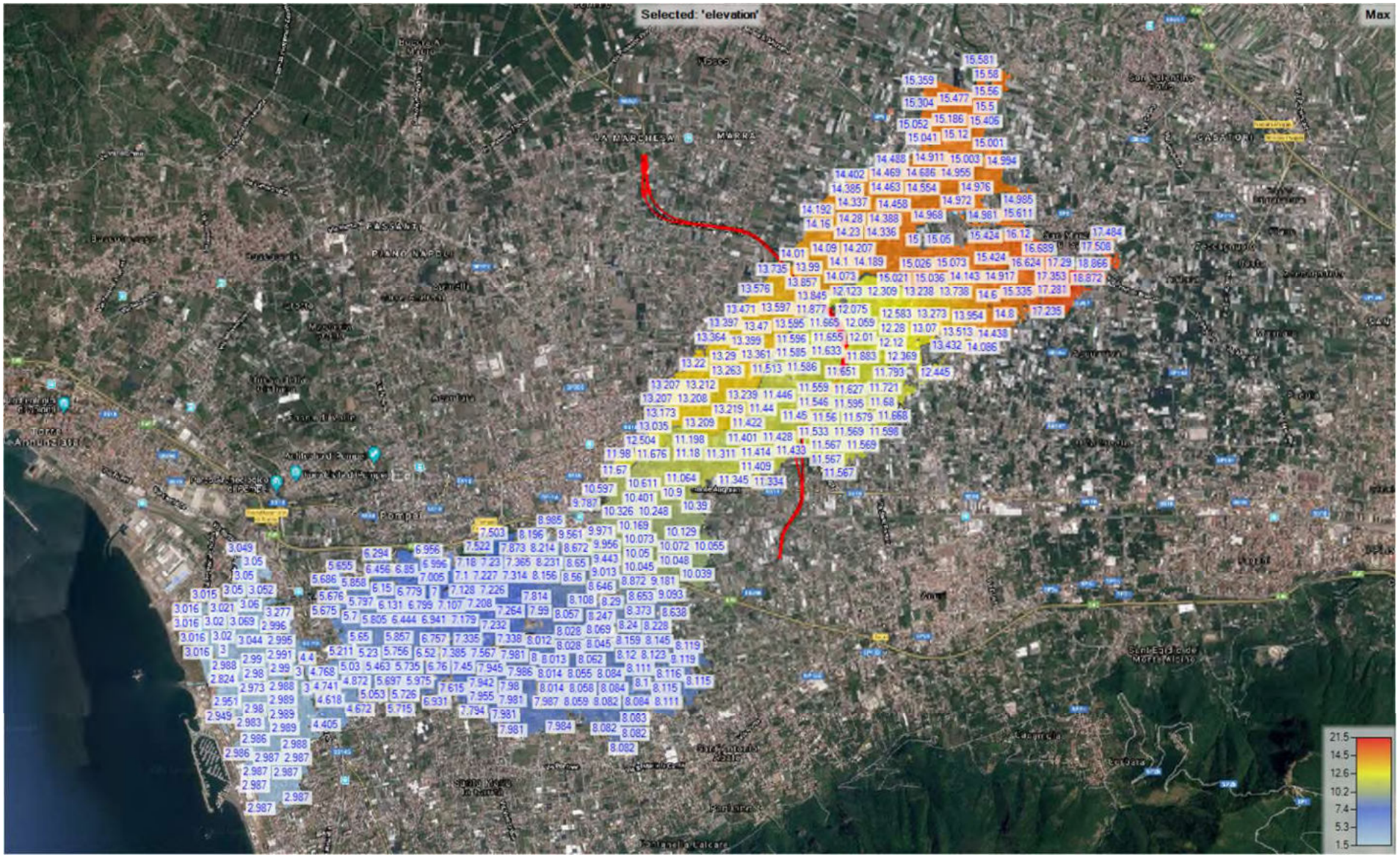

PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 375
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 343
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 308
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 264
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR30_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 114
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

2.2.2. Configurazione di progetto
Evento TR 100 anni



Inviluppo dei massimi livelli idrici



Inviluppo dei massimi livelli idrici (visualizzazione numerica del livello massimo)

HEC-RAS Plan: PRJ_REV1_TR100_VAPI Profile: Max WS

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	10158	Max WS	12.35	10.79	4.08	14.87	0.04	14.87	0.19	2.50
Sarno_valle	Sarno_valle	10156		Lat Struct							
Sarno_valle	Sarno_valle	10155		Lat Struct							
Sarno_valle	Sarno_valle	10050	Max WS	11.06	10.75	3.52	14.27	0.10	14.28	0.41	1.89
Sarno_valle	Sarno_valle	9965	Max WS	10.56	10.71	3.15	13.86	0.17	13.88	0.68	1.60
Sarno_valle	Sarno_valle	9887	Max WS	10.49	10.68	3.15	13.83	0.09	13.84	0.37	1.90
Sarno_valle	Sarno_valle	9824	Max WS	10.47	10.57	3.24	13.81	0.11	13.82	0.44	1.71
Sarno_valle	Sarno_valle	9751	Max WS	10.46	10.43	3.36	13.79	0.10	13.80	0.42	1.74
Sarno_valle	Sarno_valle	9629	Max WS	10.45	10.36	3.39	13.75	0.11	13.76	0.44	1.67
Sarno_valle	Sarno_valle	9518	Max WS	10.44	10.30	3.42	13.72	0.08	13.73	0.35	1.92
Sarno_valle	Sarno_valle	9435	Max WS	10.41	10.22	3.46	13.68	0.14	13.70	0.61	1.86
Sarno_valle	Sarno_valle	9396	Max WS	10.37	10.18	3.49	13.67	0.11	13.68	0.43	1.71
Sarno_valle	Sarno_valle	9363	Max WS	10.36	10.14	3.51	13.65	0.14	13.67	0.62	1.89
Sarno_valle	Sarno_valle	9318	Max WS	10.31	10.10	3.52	13.62	0.15	13.64	0.60	1.56
Sarno_valle	Sarno_valle	9130	Max WS	9.97	9.90	3.66	13.56	0.07	13.56	0.28	1.93
Sarno_valle	Sarno_valle	8979	Max WS	9.29	9.75	3.77	13.52	0.10	13.53	0.43	1.83
Sarno_valle	Sarno_valle	8789	Max WS	8.06	9.60	3.89	13.49	0.06	13.49	0.25	1.92
Sarno_valle	Sarno_valle	8648	Max WS	10.97	9.45	4.00	13.45	0.10	13.46	0.42	1.85
Sarno_valle	Sarno_valle	8574	Max WS	17.42	9.37	4.04	13.41	0.12	13.42	0.48	1.57
Sarno_valle	Sarno_valle	8311	Max WS	26.82	9.25	4.03	13.28	0.13	13.29	0.59	1.98
Sarno_valle	Sarno_valle	8123	Max WS	26.86	9.08	4.11	13.19	0.12	13.21	0.58	2.34
Sarno_valle	Sarno_valle	7939	Max WS	18.39	8.98	4.16	13.14	0.10	13.15	0.46	2.16
Sarno_valle	Sarno_valle	7710	Max WS	-10.93	8.80	4.33	13.13	0.05	13.13	-0.23	2.11
Sarno_valle	Sarno_valle	7544	Max WS	-17.35	8.63	4.51	13.14	0.07	13.15	-0.33	1.97
Sarno_valle	Sarno_valle	7437	Max WS	0.42	8.41	4.75	13.16	0.00	13.16	0.01	2.29
Sarno_valle	Sarno_valle	7410	Max WS	15.97	8.41	4.74	13.15	0.06	13.16	0.31	2.38
Sarno_valle	Sarno_valle	7388	Max WS	31.70	8.40	4.72	13.12	0.13	13.14	0.62	2.35
Sarno_valle	Sarno_valle	7351	Max WS	47.47	8.37	4.65	13.02	0.23	13.07	0.98	1.82
Sarno_valle	Sarno_valle	7310	Max WS	43.28	8.32	4.65	12.97	0.21	13.02	1.01	2.28
Sarno_valle	Sarno_valle	7220	Max WS	19.26	8.21	4.77	12.98	0.10	12.99	0.45	2.15
Sarno_valle	Sarno_valle	7143	Max WS	-0.06	8.20	4.79	12.99	0.00	12.99	0.00	1.71
Sarno_valle	Sarno_valle	7121	Max WS	-0.88	8.20	4.79	12.99	0.00	12.99	-0.02	2.10

HEC-RAS Plan: PRJ_REV1_TR100_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	7042	Max WS	-15.04	8.18	4.81	12.99	0.06	12.99	-0.28	2.44
Sarno_valle	Sarno_valle	6896	Max WS	-19.33	8.10	4.90	13.00	0.07	13.01	-0.35	2.69
Sarno_valle	Sarno_valle	6751	Max WS	8.31	8.03	5.00	13.03	0.03	13.03	0.16	2.44
Sarno_valle	Sarno_valle	6575	Max WS	45.96	7.96	4.89	12.85	0.18	12.89	0.80	2.02
Sarno_valle	Sarno_valle	6325	Max WS	63.76	7.86	4.41	12.27	0.27	12.36	1.32	2.38
Sarno_valle	Sarno_valle	6158	Max WS	33.68	7.79	4.35	12.14	0.18	12.17	0.81	2.11
Sarno_valle	Sarno_valle	6097	Max WS	41.82	7.34	4.70	12.04	0.20	12.09	1.00	2.59
Sarno_valle	Sarno_valle	6081	Max WS	58.84	7.26	4.59	11.85	0.32	11.99	1.62	2.54
Sarno_valle	Sarno_valle	6076	Max WS	58.92	7.25	4.63	11.88	0.28	11.97	1.33	2.37
Sarno_valle	Sarno_valle	6049	Max WS	36.47	7.21	4.74	11.95	0.18	11.99	0.86	2.27
Sarno_valle	Sarno_valle	5980	Max WS	68.52	7.09	4.29	11.38	0.53	11.66	2.37	2.06
Sarno_valle	Sarno_valle	5917	Max WS	67.78	6.98	4.12	11.10	0.39	11.27	1.79	2.19
Sarno_valle	Sarno_valle	5881	Max WS	130.78	5.85	4.99	10.84	0.30	10.97	1.56	2.70
Sarno_valle	Sarno_valle	5861	Max WS	158.41	5.84	4.67	10.51	0.38	10.72	2.01	2.79
Sarno_valle	Sarno_valle	5812	Max WS	86.09	5.79	4.82	10.61	0.25	10.70	1.43	2.88
Sarno_valle	Sarno_valle	5744	Max WS	70.73	5.71	4.94	10.65	0.25	10.75	1.40	3.15
Sarno_valle	Sarno_valle	5662	Max WS	58.87	5.59	4.93	10.52	0.29	10.62	1.43	2.42
Sarno_valle	Sarno_valle	5604	Max WS	51.52	5.54	4.35	9.89	0.66	10.32	2.92	2.02
Sarno_valle	Sarno_valle	5552	Max WS	48.48	5.35	4.30	9.65	0.33	9.78	1.60	2.37
Sarno_valle	Sarno_valle	5478	Max WS	47.80	5.26	4.29	9.55	0.19	9.59	0.85	2.05
Sarno_valle	Sarno_valle	5415	Max WS	42.09	4.41	5.20	9.61	0.12	9.64	0.73	3.56
Sarno_valle	Sarno_valle	5359	Max WS	95.16	4.40	5.12	9.52	0.27	9.63	1.46	3.05
Sarno_valle	Sarno_valle	5279	Max WS	54.34	4.31	5.12	9.43	0.15	9.46	0.81	2.98
Sarno_valle	Sarno_valle	5251	Max WS	58.52	4.29	4.96	9.25	0.32	9.36	1.42	1.98
Sarno_valle	Sarno_valle	5222	Max WS	54.37	4.21	4.99	9.20	0.17	9.25	0.97	3.23
Sarno_valle	Sarno_valle	5206	Max WS	53.75	4.14	5.05	9.19	0.16	9.23	0.84	2.73
Sarno_valle	Sarno_valle	5199	Max WS	50.35	4.13	5.03	9.16	0.21	9.21	1.00	2.30
Sarno_valle	Sarno_valle	5145	Max WS	45.21	4.11	5.09	9.20	0.12	9.22	0.67	3.13
Sarno_valle	Sarno_valle	5137	Max WS	44.98	4.10	5.09	9.19	0.18	9.23	0.89	2.40
Sarno_valle	Sarno_valle	5131	Max WS	50.37	4.09	5.00	9.09	0.40	9.21	1.53	1.50
Sarno_valle	Sarno_valle	5107	Max WS	53.22	4.07	4.95	9.02	0.18	9.06	0.86	2.46
Sarno_valle	Sarno_valle	5074	Max WS	37.07	4.05	4.97	9.02	0.16	9.05	0.76	2.22

HEC-RAS Plan: PRJ_REV1_TR100_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	5013	Max WS	42.60	4.01	4.94	8.95	0.18	8.99	0.85	2.18
Sarno_valle	Sarno_valle	4982	Max WS	73.01	3.99	4.81	8.80	0.23	8.86	1.14	2.51
Sarno_valle	Sarno_valle	4928	Max WS	63.40	3.87	4.53	8.40	0.38	8.54	1.69	2.05
Sarno_valle	Sarno_valle	4906	Max WS	64.22	3.74	4.59	8.33	0.33	8.44	1.46	2.05
Sarno_valle	Sarno_valle	4785	Max WS	28.94	3.44	4.81	8.25	0.11	8.26	0.53	2.36
Sarno_valle	Sarno_valle	4706	Max WS	45.98	3.38	4.75	8.13	0.19	8.17	0.88	2.22
Sarno_valle	Sarno_valle	4661	Max WS	54.13	3.38	4.70	8.08	0.20	8.12	0.88	2.06
Sarno_valle	Sarno_valle	4625	Max WS	58.34	3.28	4.72	8.00	0.22	8.06	1.08	2.41
Sarno_valle	Sarno_valle	4603	Max WS	54.97	3.27	4.75	8.02	0.17	8.05	0.78	2.03
Sarno_valle	Sarno_valle	4568	Max WS	57.37	3.25	4.77	8.02	0.15	8.05	0.77	2.70
Sarno_valle	Sarno_valle	4531	Max WS	45.04	3.22	4.83	8.05	0.10	8.06	0.56	2.65
Sarno_valle	Sarno_valle	4463	Max WS	53.09	3.20	4.75	7.95	0.19	7.98	0.77	1.73
Sarno_valle	Sarno_valle	4351	Max WS	56.22	3.18	4.46	7.64	0.32	7.74	1.40	1.89
Sarno_valle	Sarno_valle	4284	Max WS	44.47	3.06	4.51	7.57	0.20	7.60	0.81	1.64
Sarno_valle	Sarno_valle	4061	Max WS	41.65	2.68	4.65	7.33	0.19	7.37	0.84	2.06
Sarno_valle	Sarno_valle	3919	Max WS	40.04	2.48	4.70	7.18	0.19	7.23	0.92	2.30
Sarno_valle	Sarno_valle	3863	Max WS	42.54	2.38	4.76	7.14	0.14	7.17	0.72	2.60
Sarno_valle	Sarno_valle	3844	Max WS	42.44	2.37	4.77	7.14	0.12	7.16	0.63	2.67
Sarno_valle	Sarno_valle	3800	Max WS	36.85	2.24	4.93	7.17	0.09	7.18	0.52	3.16
Sarno_valle	Sarno_valle	3685	Max WS	28.40	2.10	4.99	7.09	0.11	7.10	0.53	2.44
Sarno_valle	Sarno_valle	3499	Max WS	37.24	1.84	5.18	7.02	0.12	7.04	0.60	2.64
Sarno_valle	Sarno_valle	3144	Max WS	52.47	1.41	5.39	6.80	0.18	6.84	0.89	2.50
Sarno_valle	Sarno_valle	3039	Max WS	57.57	1.34	5.41	6.75	0.14	6.79	0.80	3.33
Sarno_valle	Sarno_valle	3015	Max WS	55.66	1.32	5.35	6.67	0.24	6.75	1.21	2.49
Sarno_valle	Sarno_valle	2928	Max WS	51.50	1.27	5.30	6.57	0.20	6.62	1.01	2.53
Sarno_valle	Sarno_valle	2827	Max WS	50.06	1.14	5.09	6.23	0.37	6.37	1.66	2.03
Sarno_valle	Sarno_valle	2768	Max WS	49.67	1.00	5.16	6.16	0.21	6.21	1.01	2.34
Sarno_valle	Sarno_valle	2752	Max WS	49.42	0.96	5.11	6.07	0.31	6.18	1.43	2.12
Sarno_valle	Sarno_valle	2705	Max WS	44.78	0.88	5.13	6.01	0.23	6.06	1.01	1.88
Sarno_valle	Sarno_valle	2514	Max WS	45.97	0.70	5.01	5.71	0.18	5.75	0.85	2.21
Sarno_valle	Sarno_valle	2387	Max WS	23.89	0.52	5.18	5.70	0.07	5.71	0.39	3.16
Sarno_valle	Sarno_valle	2285	Max WS	51.45	0.40	5.11	5.51	0.25	5.57	1.10	2.02

HEC-RAS Plan: PRJ_REV1_TR100_VAPI Profile: Max WS (Continued)

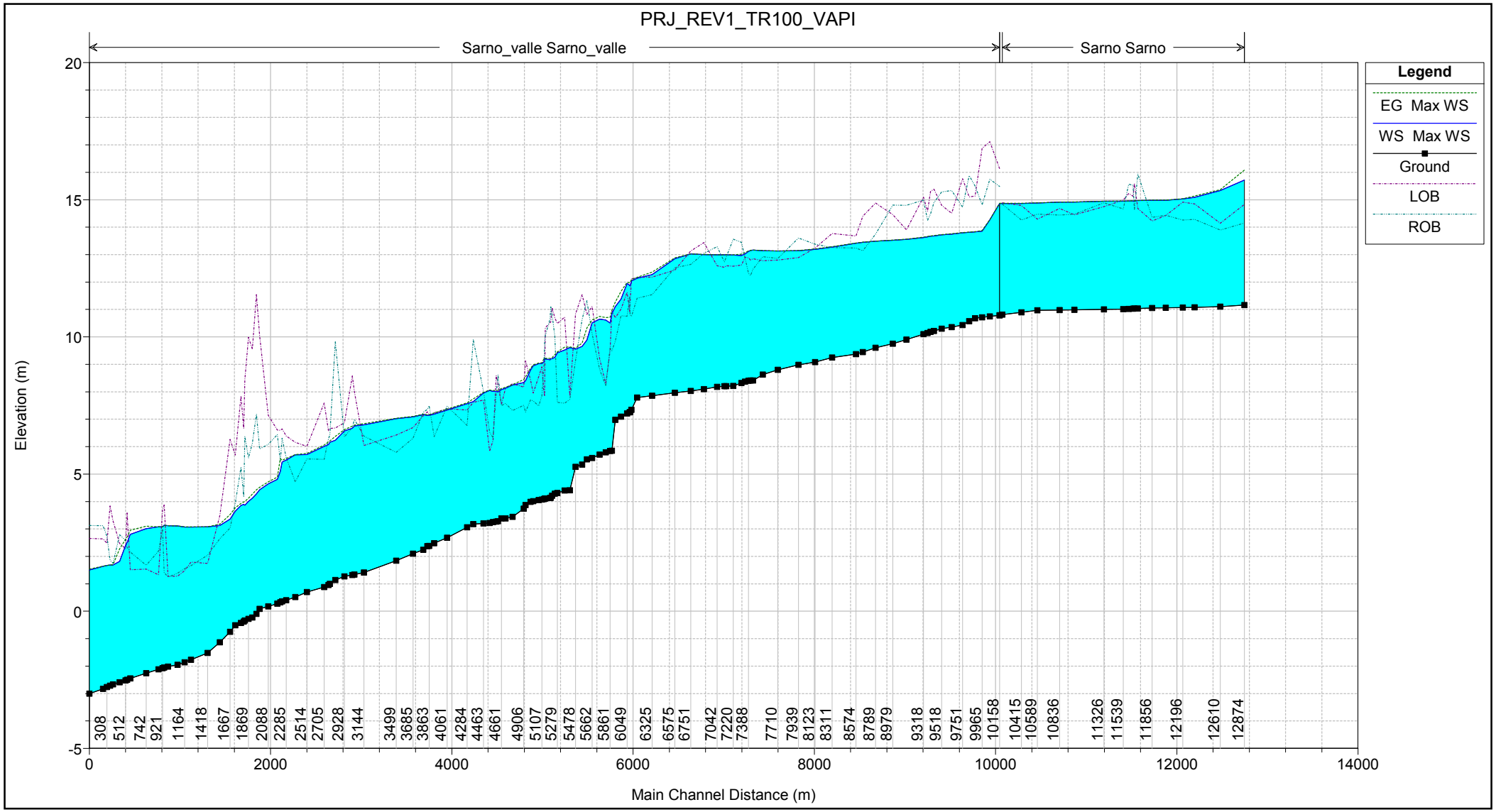
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	2240	Max WS	51.46	0.36	5.08	5.44	0.22	5.50	1.12	2.68
Sarno_valle	Sarno_valle	2220	Max WS	51.46	0.33	4.77	5.10	0.73	5.56	3.02	1.75
Sarno_valle	Sarno_valle	2189	Max WS	51.46	0.28	4.53	4.81	0.27	4.89	1.33	2.39
Sarno_valle	Sarno_valle	2088	Max WS	51.45	0.18	4.47	4.65	0.24	4.72	1.19	2.50
Sarno_valle	Sarno_valle	1993	Max WS	51.45	0.09	4.34	4.43	0.30	4.52	1.34	2.04
Sarno_valle	Sarno_valle	1957	Max WS	51.45	-0.10	4.38	4.28	0.35	4.42	1.67	2.33
Sarno_valle	Sarno_valle	1913	Max WS	51.45	-0.23	4.35	4.12	0.40	4.27	1.73	1.92
Sarno_valle	Sarno_valle	1869	Max WS	51.45	-0.28	4.28	4.00	0.32	4.12	1.49	2.21
Sarno_valle	Sarno_valle	1829	Max WS	51.45	-0.34	4.21	3.87	0.34	4.01	1.67	2.42
Sarno_valle	Sarno_valle	1816	Max WS	51.44	-0.38	4.27	3.89	0.25	3.98	1.28	2.61
Sarno_valle	Sarno_valle	1787	Max WS	51.31	-0.43	4.29	3.86	0.24	3.93	1.22	2.71
Sarno_valle	Sarno_valle	1724	Max WS	50.89	-0.51	4.16	3.65	0.36	3.77	1.57	1.97
Sarno_valle	Sarno_valle	1667	Max WS	47.81	-0.75	4.11	3.36	0.40	3.52	1.80	2.09
Sarno_valle	Sarno_valle	1553	Max WS	33.51	-1.13	4.26	3.13	0.25	3.18	0.95	1.52
Sarno_valle	Sarno_valle	1418	Max WS	7.37	-1.52	4.60	3.08	0.03	3.08	0.13	2.14
Sarno_valle	Sarno_valle	1235	Max WS	14.54	-1.77	4.84	3.07	0.05	3.07	0.26	2.67
Sarno_valle	Sarno_valle	1164	Max WS	8.57	-1.86	4.93	3.07	0.05	3.07	0.23	2.37
Sarno_valle	Sarno_valle	1088	Max WS	-3.76	-1.95	5.06	3.11	0.02	3.11	-0.08	2.89
Sarno_valle	Sarno_valle	981	Max WS	-16.12	-2.02	5.14	3.12	0.03	3.12	-0.20	3.29
Sarno_valle	Sarno_valle	940	Max WS	5.54	-2.05	5.18	3.13	0.02	3.13	0.12	2.66
Sarno_valle	Sarno_valle	921	Max WS	-9.46	-2.08	5.16	3.08	0.05	3.08	-0.22	2.21
Sarno_valle	Sarno_valle	877	Max WS	-25.01	-2.12	5.19	3.07	0.05	3.08	-0.28	2.80
Sarno_valle	Sarno_valle	742	Max WS	-64.00	-2.26	5.27	3.01	0.26	3.10	-1.36	2.76
Sarno_valle	Sarno_valle	564	Max WS	70.55	-2.45	5.25	2.80	0.39	2.95	1.71	1.94
Sarno_valle	Sarno_valle	531	Max WS	94.69	-2.50	5.00	2.50	0.42	2.70	1.99	2.25
Sarno_valle	Sarno_valle	512	Max WS	96.56	-2.52	4.92	2.40	0.43	2.62	2.09	2.45
Sarno_valle	Sarno_valle	447	Max WS	117.23	-2.59	4.41	1.82	0.49	2.27	2.99	3.77
Sarno_valle	Sarno_valle	375	Max WS	-30.58	-2.66	4.35	1.69	0.11	1.70	-0.55	2.48
Sarno_valle	Sarno_valle	343	Max WS	-30.81	-2.71	4.39	1.68	0.07	1.69	-0.35	2.91
Sarno_valle	Sarno_valle	308	Max WS	-37.27	-2.76	4.42	1.66	0.06	1.67	-0.36	3.70
Sarno_valle	Sarno_valle	264	Max WS	-38.78	-2.83	4.46	1.63	0.06	1.64	-0.38	3.55
Sarno_valle	Sarno_valle	114	Max WS	-89.90	-3.00	4.50	1.50	0.15	1.54	-0.85	3.18

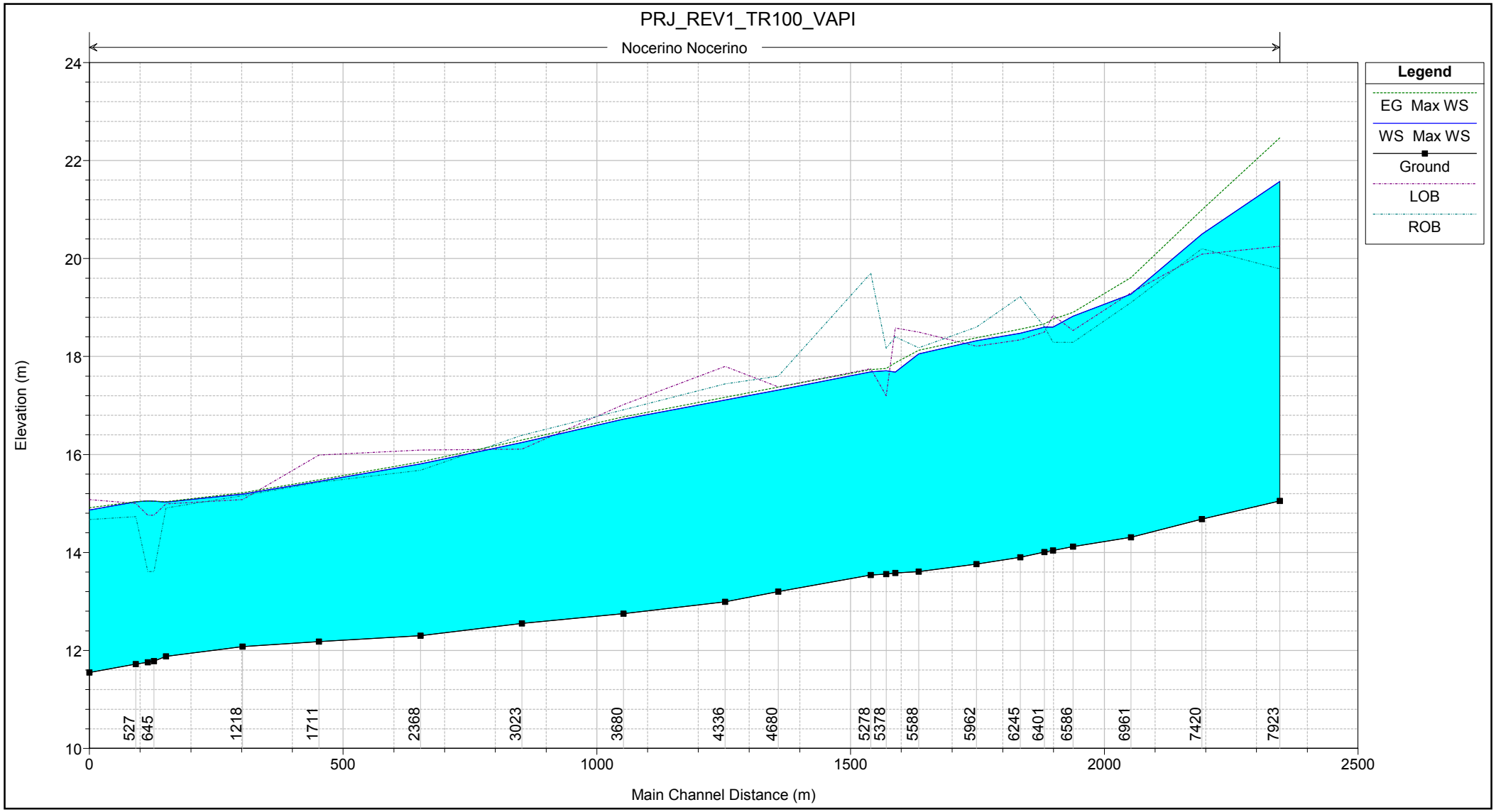
HEC-RAS Plan: PRJ_REV1_TR100_VAPI Profile: Max WS (Continued)

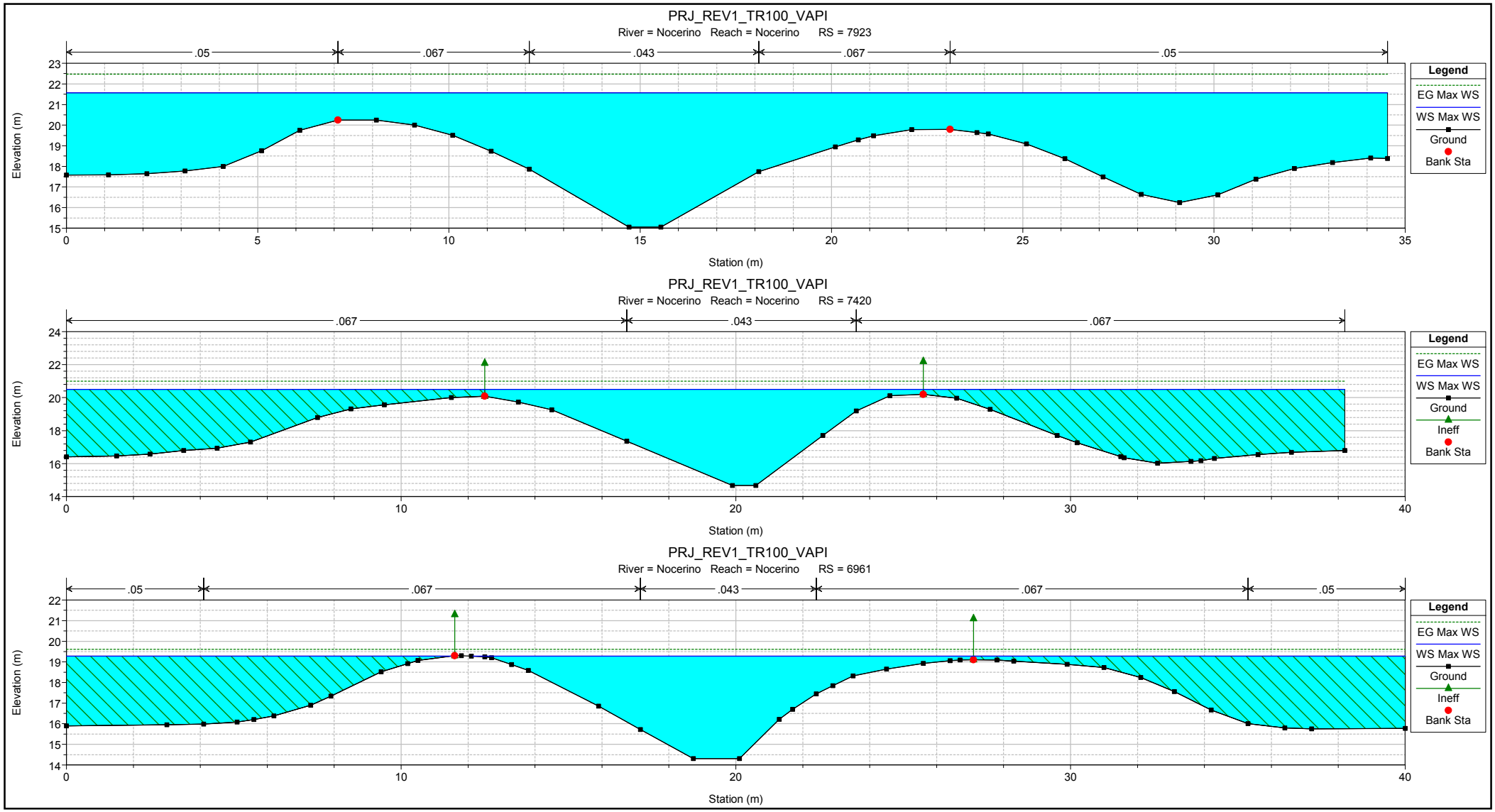
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno	Sarno	12874	Max WS	275.73	11.16	4.55	15.72	0.56	16.08	2.92	2.09
Sarno	Sarno	12873		Lat Struct							
Sarno	Sarno	12872		Lat Struct							
Sarno	Sarno	12610	Max WS	50.83	11.10	4.23	15.33	0.18	15.37	0.86	2.39
Sarno	Sarno	12325	Max WS	52.82	11.08	4.01	15.09	0.21	15.13	0.97	2.24
Sarno	Sarno	12196	Max WS	35.96	11.07	3.96	15.03	0.10	15.04	0.49	2.66
Sarno	Sarno	12006	Max WS	33.51	11.06	3.92	14.98	0.09	14.99	0.42	2.33
Sarno	Sarno	11856	Max WS	12.64	11.05	3.93	14.98	0.05	14.98	0.23	2.08
Sarno	Sarno	11698	Max WS	17.12	11.04	3.93	14.97	0.06	14.97	0.27	2.41
Sarno	Sarno	11660	Max WS	16.58	11.03	3.92	14.96	0.08	14.96	0.32	1.77
Sarno	Sarno	11647	Max WS	16.11	11.02	3.93	14.96	0.09	14.96	0.37	1.75
Sarno	Sarno	11598	Max WS	16.06	11.02	3.93	14.95	0.05	14.96	0.26	2.71
Sarno	Sarno	11539	Max WS	14.65	11.01	3.94	14.95	0.04	14.95	0.20	2.15
Sarno	Sarno	11326	Max WS	6.23	11.00	3.95	14.95	0.02	14.95	0.09	2.18
Sarno	Sarno	11000	Max WS	30.75	10.99	3.93	14.92	0.07	14.92	0.36	2.45
Sarno	Sarno	10836	Max WS	14.98	10.98	3.93	14.91	0.05	14.92	0.22	2.22
Sarno	Sarno	10589	Max WS	34.88	10.97	3.91	14.88	0.08	14.88	0.39	2.48
Sarno	Sarno	10415	Max WS	21.70	10.90	3.96	14.86	0.09	14.87	0.38	1.63
Sarno	Sarno	10205	Max WS	-5.75	10.81	4.06	14.87	0.02	14.87	-0.10	1.78

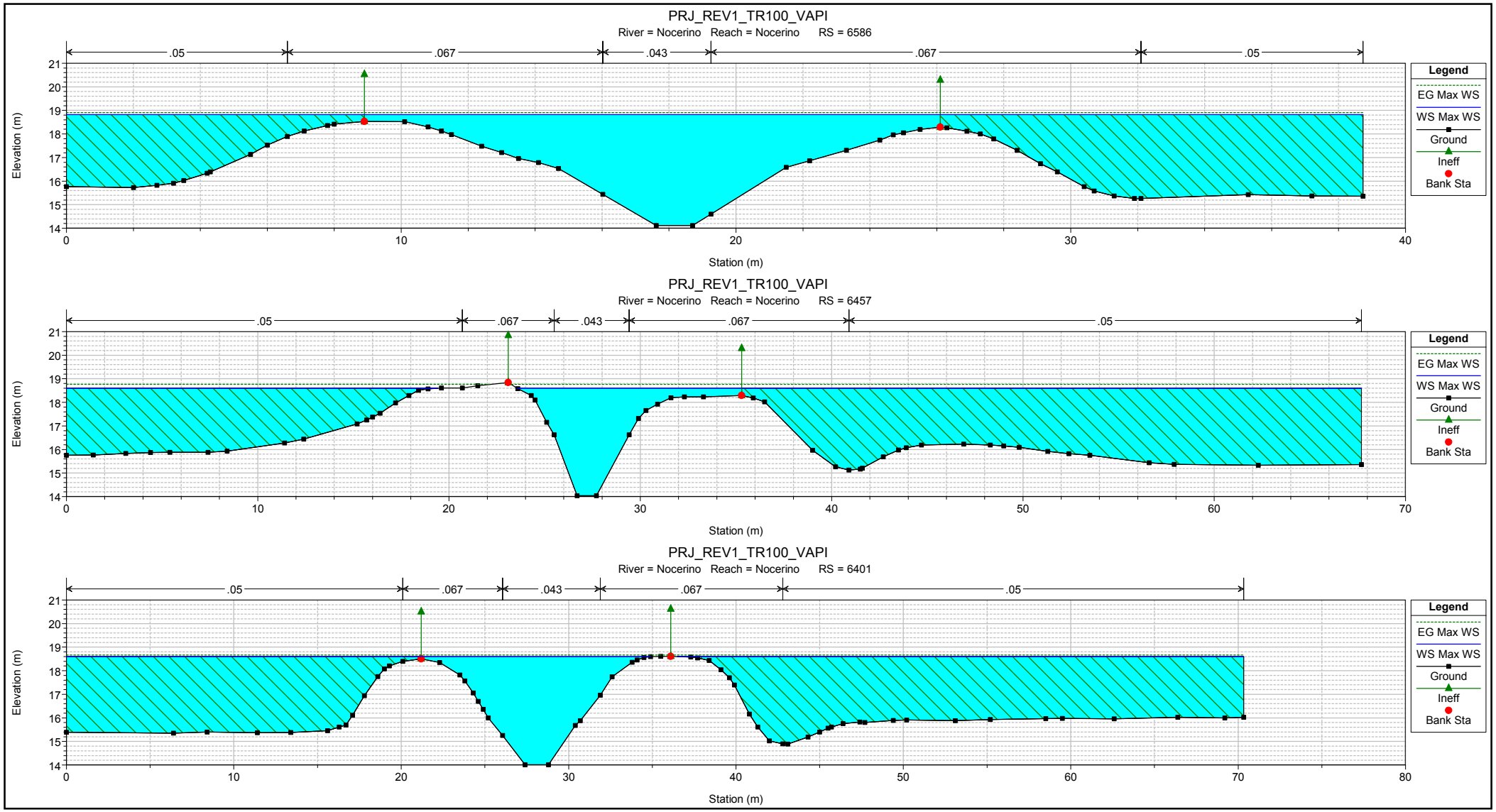
HEC-RAS Plan: PRJ_REV1_TR100_VAPI River: Nocerino Reach: Nocerino Profile: Max WS

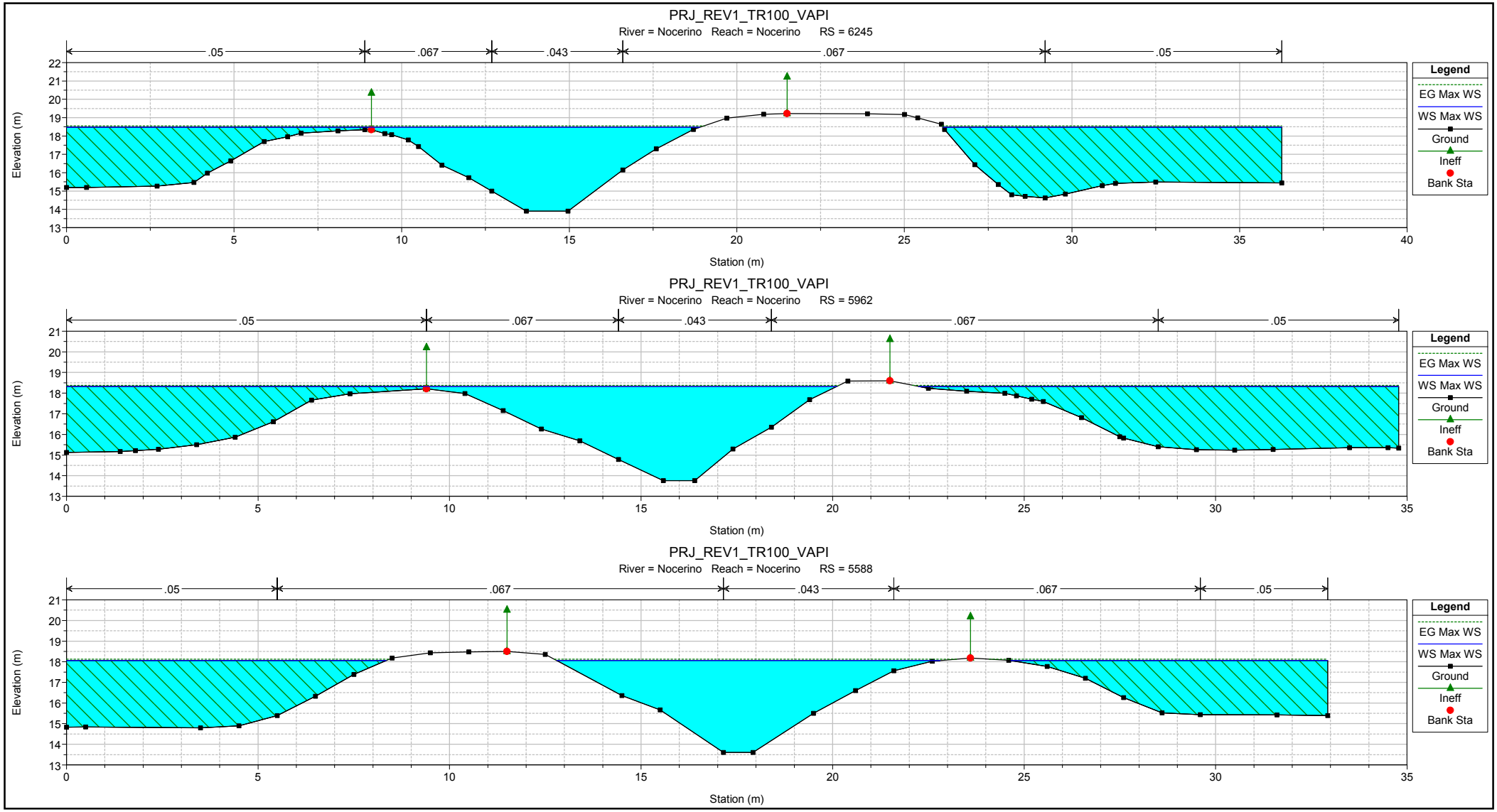
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
			(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Nocerino	7923	Max WS	498.67	15.05	6.52	21.57	0.71	22.47	4.11	3.47
Nocerino	7922		Lat Struct							
Nocerino	7921		Lat Struct							
Nocerino	7420	Max WS	114.19	14.68	5.82	20.50	0.60	20.99	3.12	2.79
Nocerino	6961	Max WS	81.44	14.31	4.97	19.28	0.56	19.61	2.57	2.12
Nocerino	6586	Max WS	47.07	14.12	4.70	18.82	0.27	18.90	1.26	2.17
Nocerino	6457	Max WS	33.82	14.04	4.56	18.60	0.45	18.76	1.78	1.62
Nocerino	6401	Max WS	32.43	14.01	4.59	18.60	0.25	18.66	1.12	2.12
Nocerino	6245	Max WS	30.34	13.90	4.58	18.48	0.26	18.56	1.27	2.43
Nocerino	5962	Max WS	26.25	13.76	4.56	18.32	0.23	18.38	1.08	2.28
Nocerino	5588	Max WS	25.87	13.61	4.44	18.05	0.26	18.13	1.20	2.15
Nocerino	5437	Max WS	25.82	13.58	4.10	17.68	0.45	17.87	1.92	1.90
Nocerino	5378	Max WS	24.75	13.56	4.15	17.71	0.21	17.76	0.97	2.24
Nocerino	5278	Max WS	20.28	13.54	4.15	17.69	0.22	17.73	0.97	2.06
Nocerino	4680	Max WS	20.35	13.20	4.12	17.32	0.25	17.38	1.08	1.85
Nocerino	4336	Max WS	20.09	12.99	4.12	17.11	0.22	17.17	1.04	2.33
Nocerino	3680	Max WS	19.96	12.75	3.97	16.72	0.23	16.77	0.96	1.73
Nocerino	3023	Max WS	18.86	12.55	3.69	16.24	0.25	16.29	0.99	1.56
Nocerino	2368	Max WS	16.40	12.30	3.51	15.81	0.23	15.85	0.90	1.52
Nocerino	1711	Max WS	13.18	12.18	3.27	15.45	0.24	15.48	0.84	1.30
Nocerino	1218	Max WS	12.34	12.08	3.11	15.19	0.21	15.22	0.72	1.20
Nocerino	723	Max WS	8.24	11.88	3.23	15.03	0.12	15.04	0.42	1.38
Nocerino	645	Max WS	7.65	11.78	3.27	15.05	0.05	15.05	0.23	1.99
Nocerino	605	Max WS	5.96	11.76	3.29	15.05	0.04	15.05	0.18	2.05
Nocerino	527	Max WS	5.92	11.72	3.31	15.03	0.10	15.04	0.32	1.18
Nocerino	227	Max WS	18.10	11.55	3.32	14.87	0.25	14.91	0.95	1.45

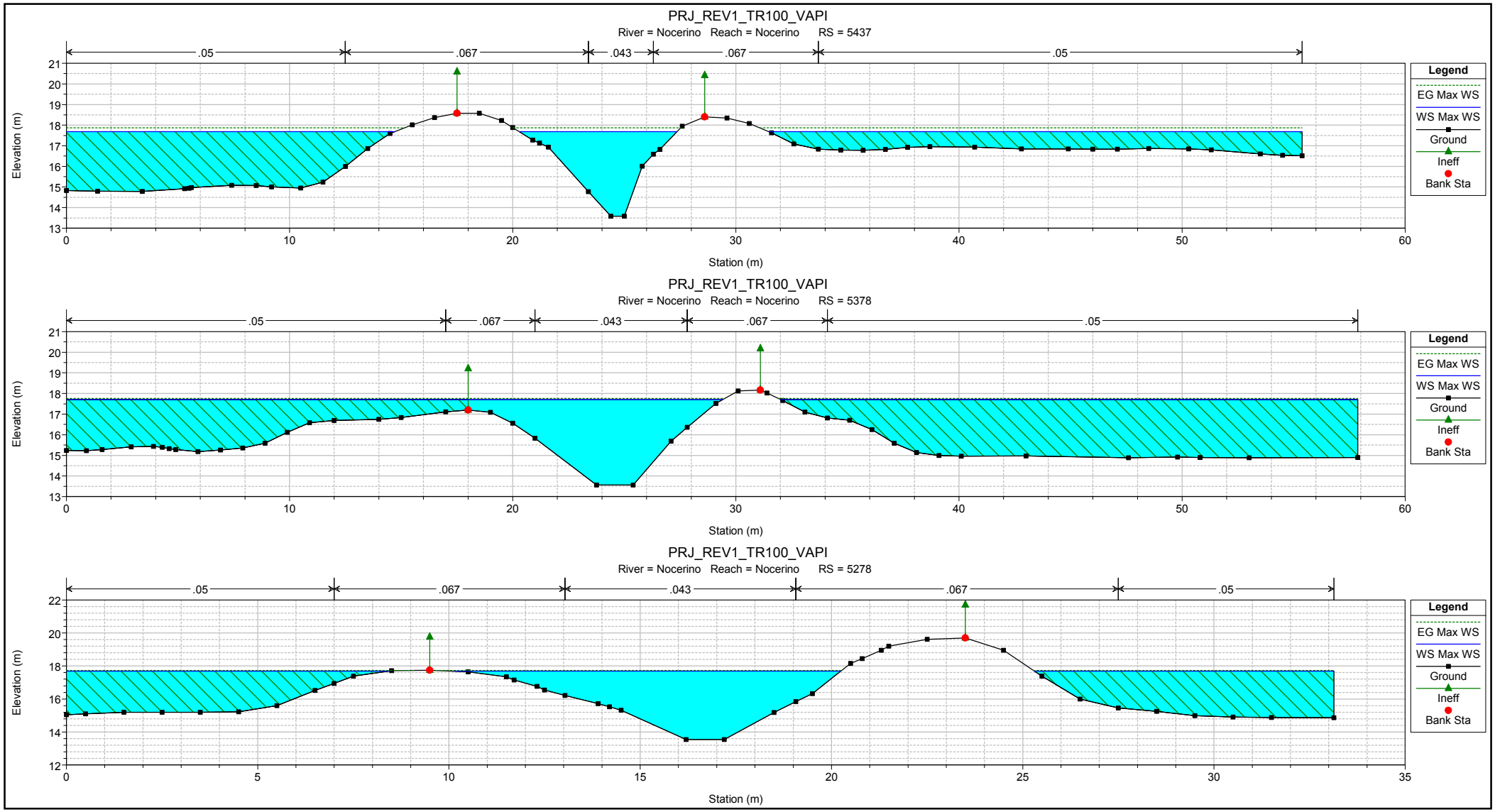

PRJ_REV1_TR100_VAPI
Sarno_valle Sarno_valle
Sarno Sarno
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
20
15
10
5
0
-5
0
2000
4000
6000
8000
10000
12000
14000
308
512
742
921
1164
1418
1667
1869
2088
2285
2514
2705
2928
3144
3499
3685
3863
4061
4284
4463
4661
4906
5107
5279
5478
5662
5861
6049
6325
6575
6751
7042
7220
7388
7710
7939
8123
8311
8574
8789
8979
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10589
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11326
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11856
12196
12610
12874

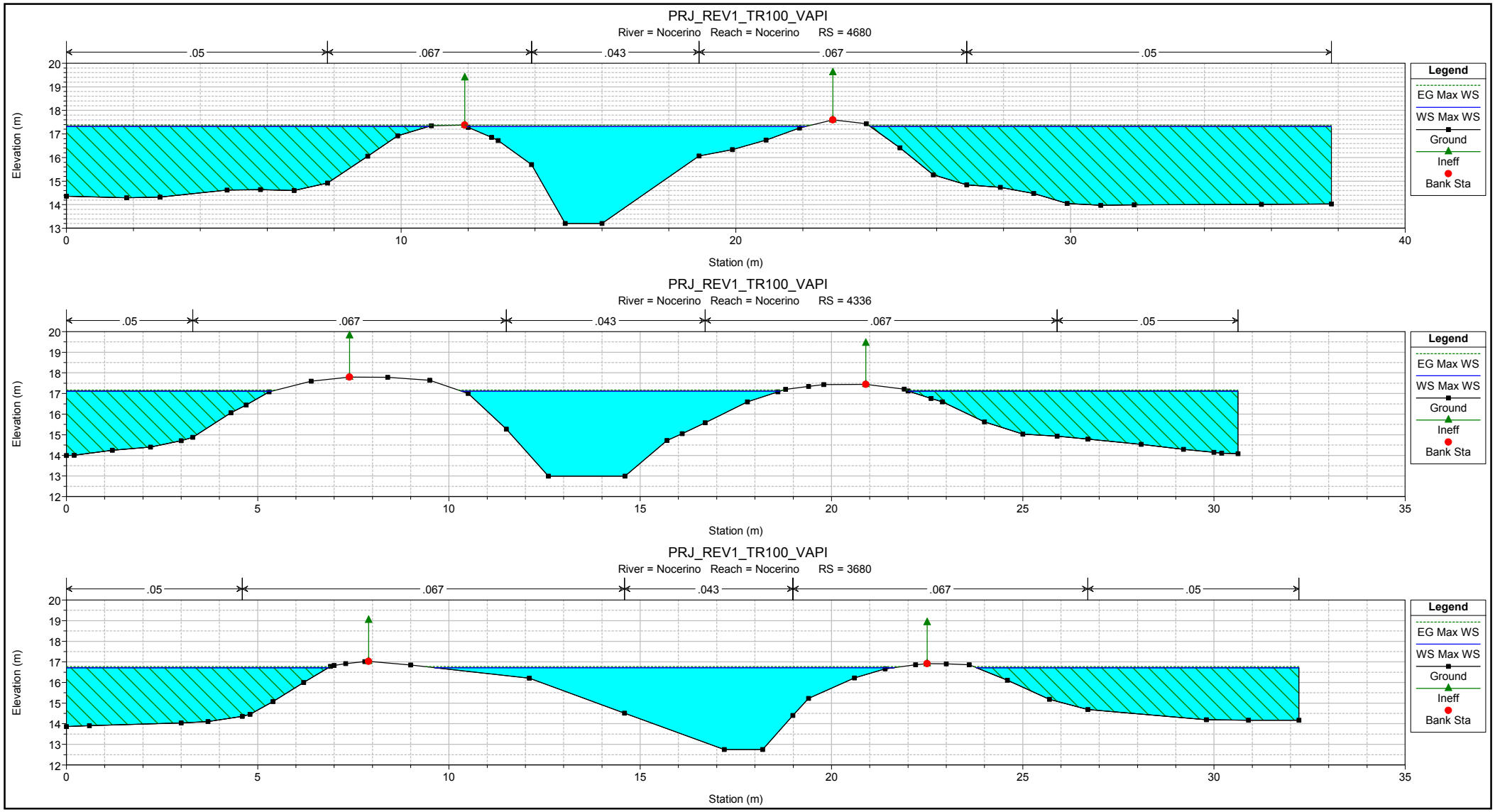

PRJ_REV1_TR100_VAPI
Nocerino Nocerino
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
24
22
20
18
16
14
12
10
0
500
1000
1500
2000
2500
527
645
1218
1711
2368
3023
3680
4336
4680
5278
5378
5588
5962
6245
6401
6586
6961
7420
7923

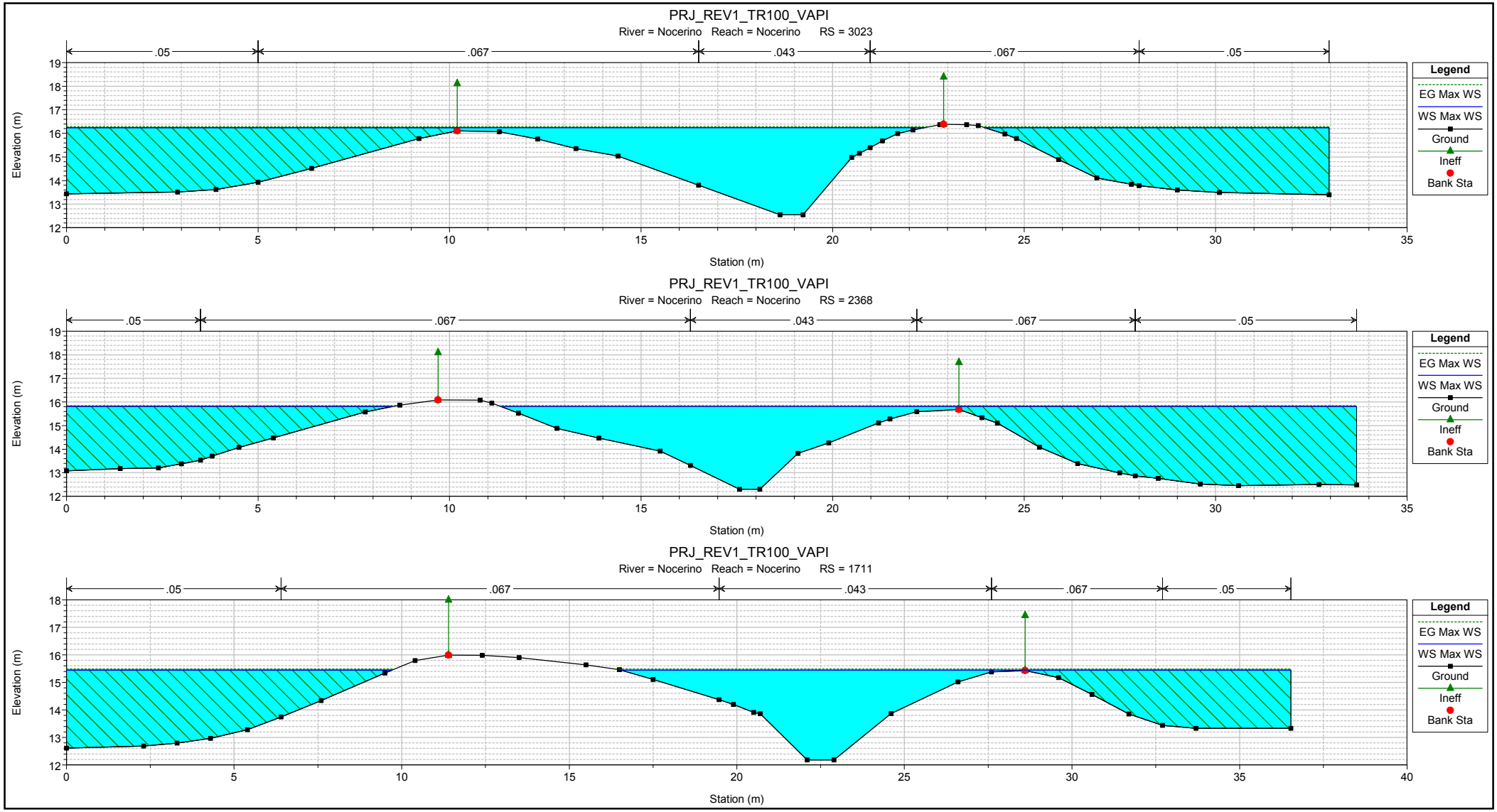

PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 7923
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 7420
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6961
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

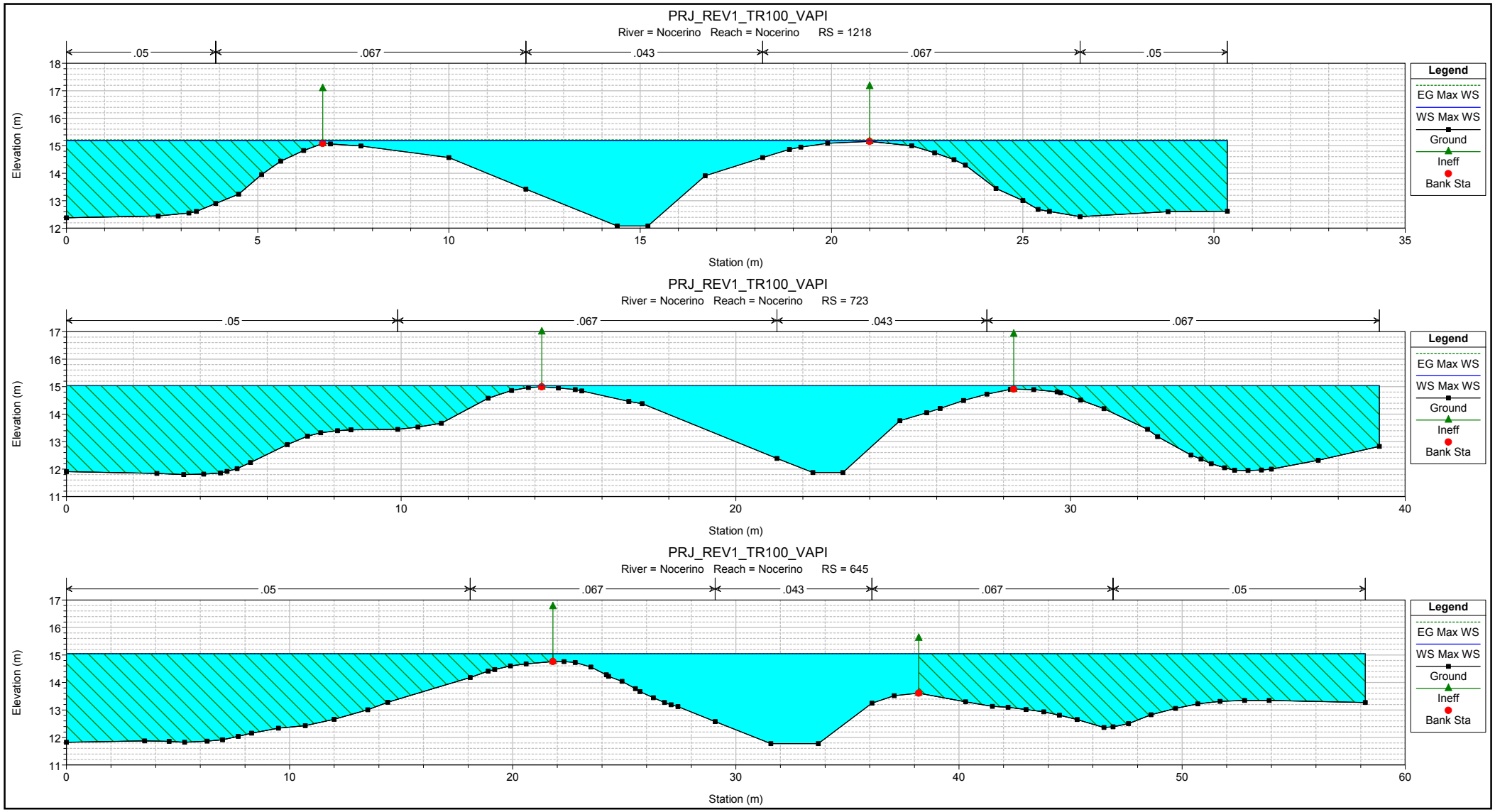

PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6586
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6457
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6401
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

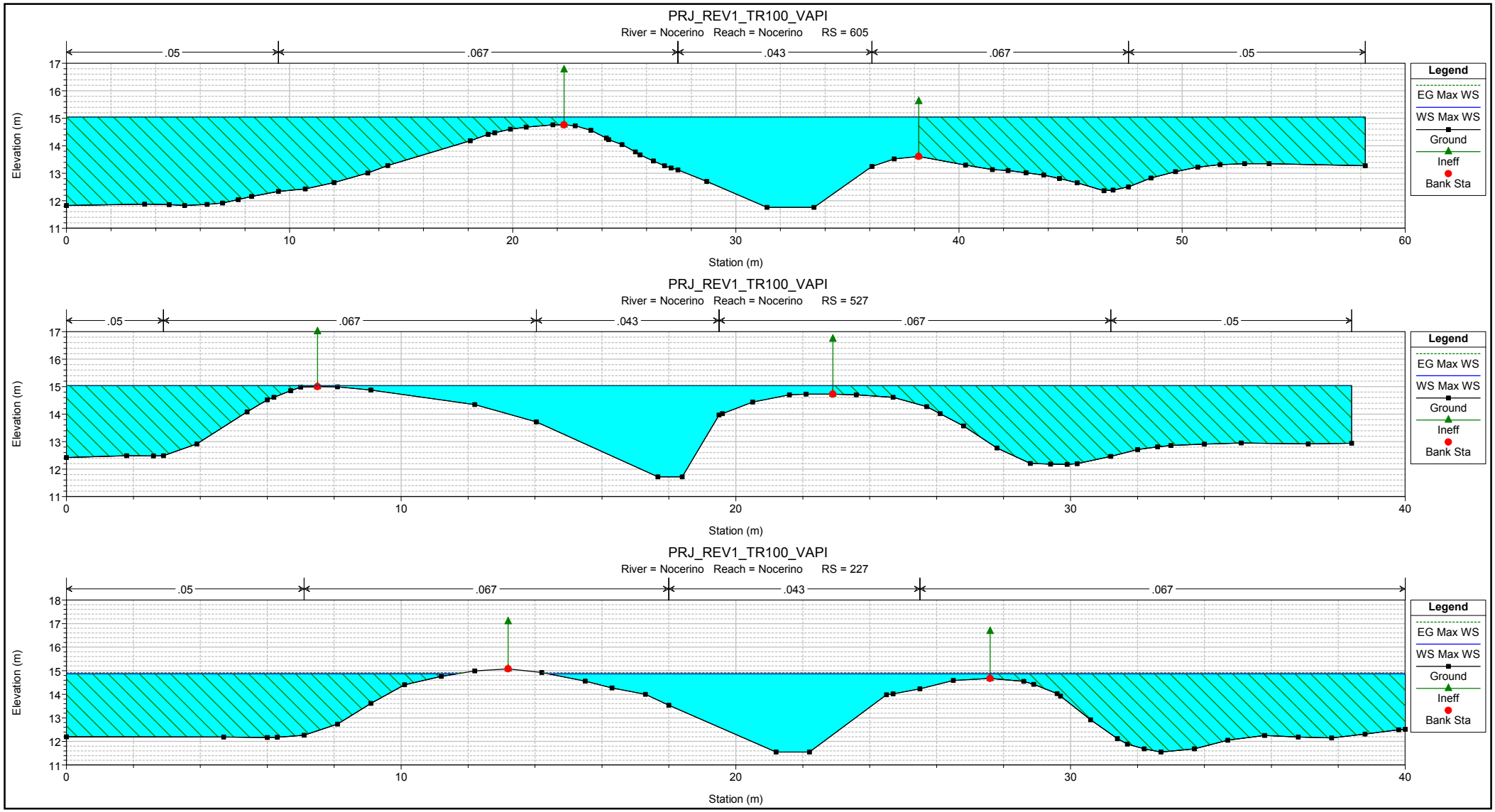

PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 6245
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5962
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5588
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

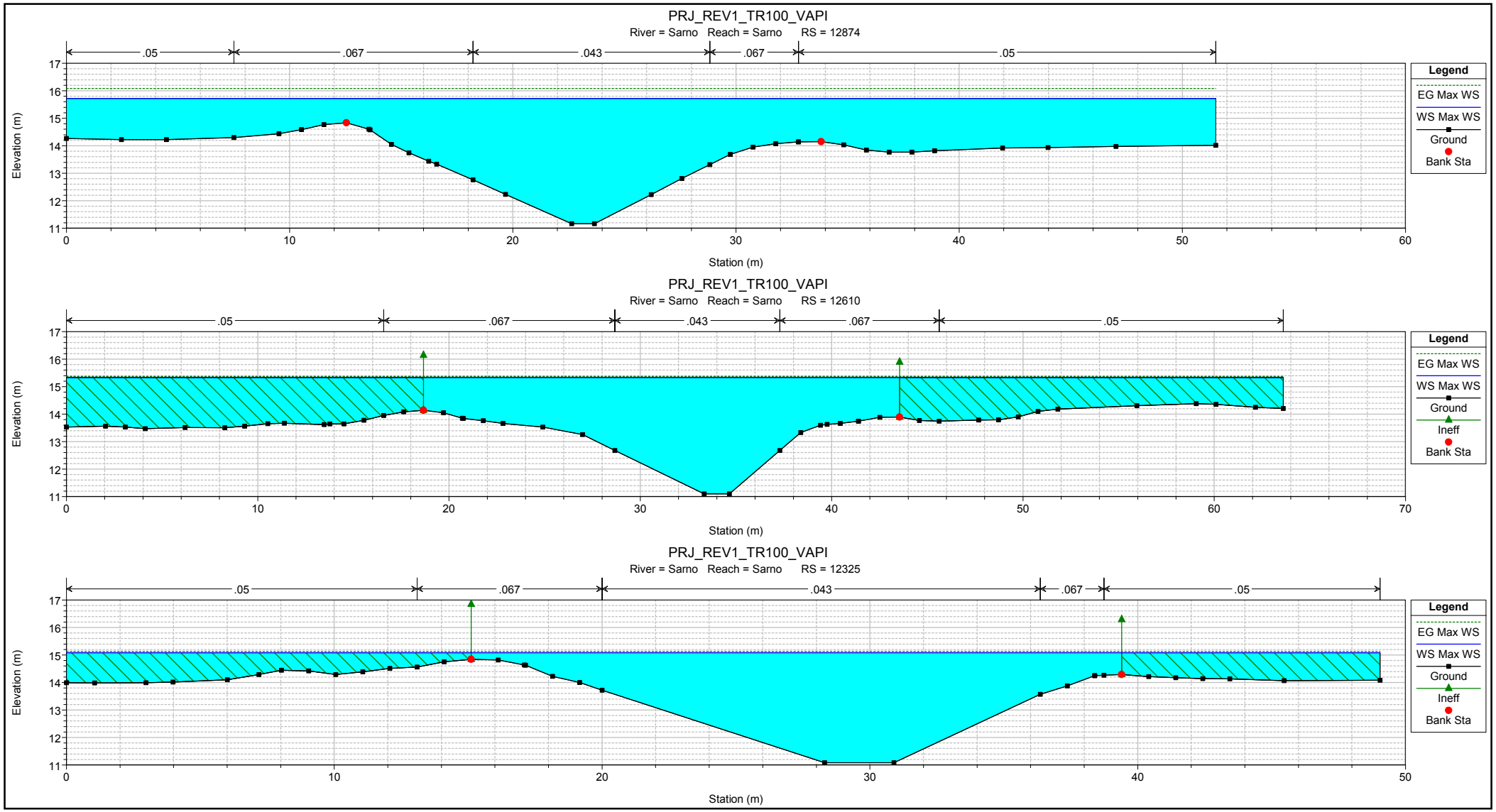

PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5378
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 5278
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

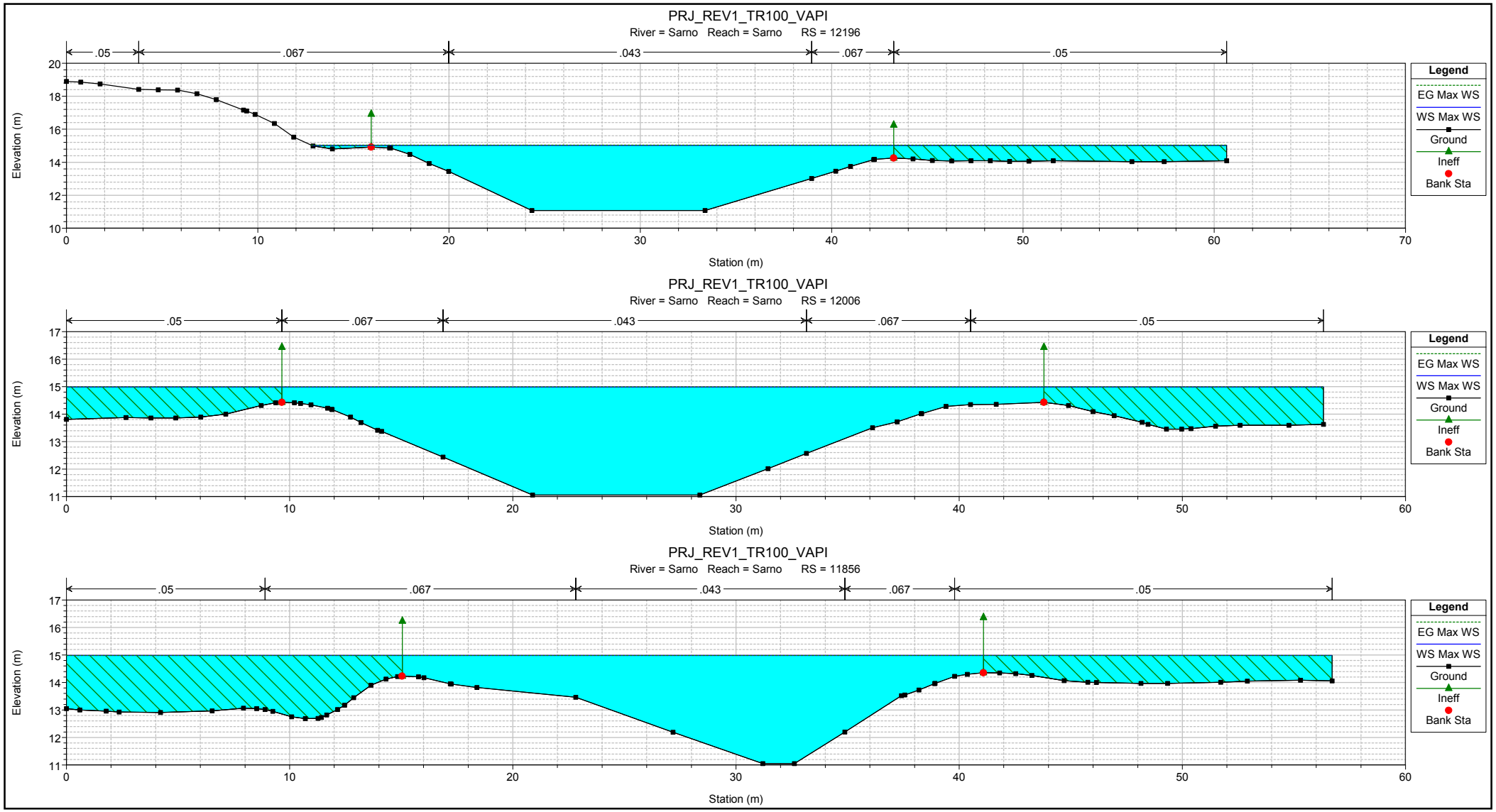

PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 4680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 4336
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 3680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

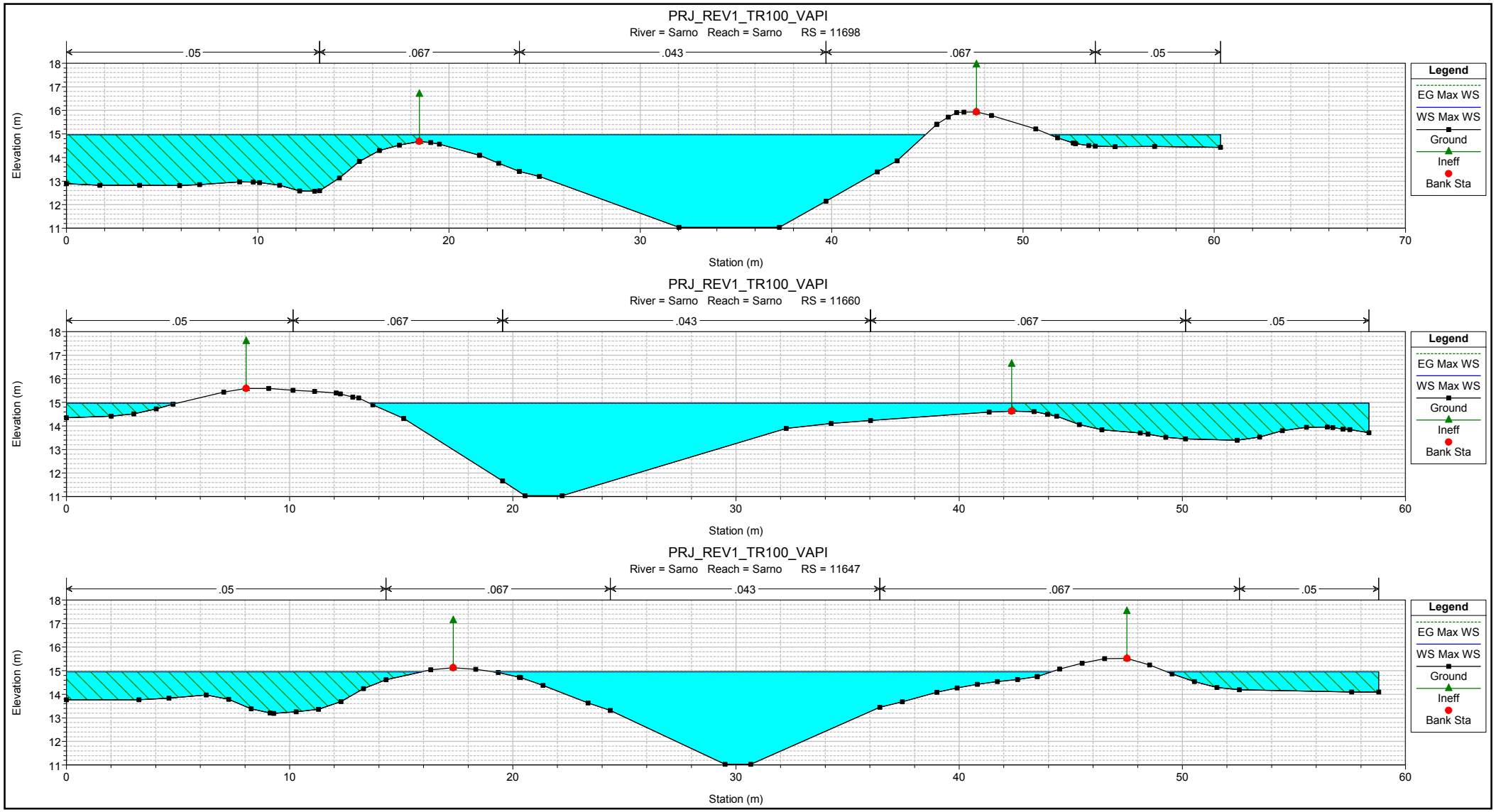

PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 3023
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 2368
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 1711
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

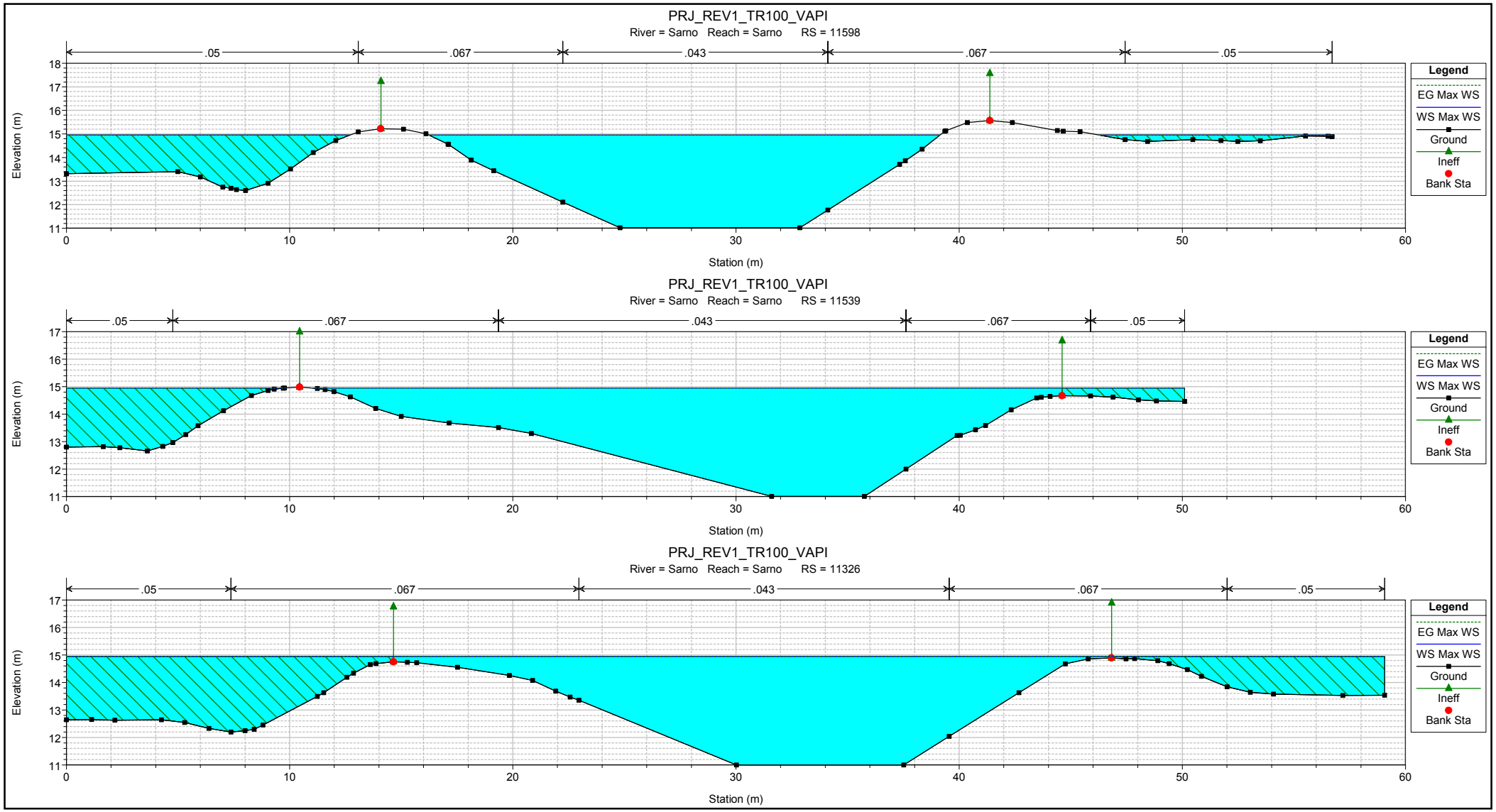

PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 1218
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 723
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 645
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

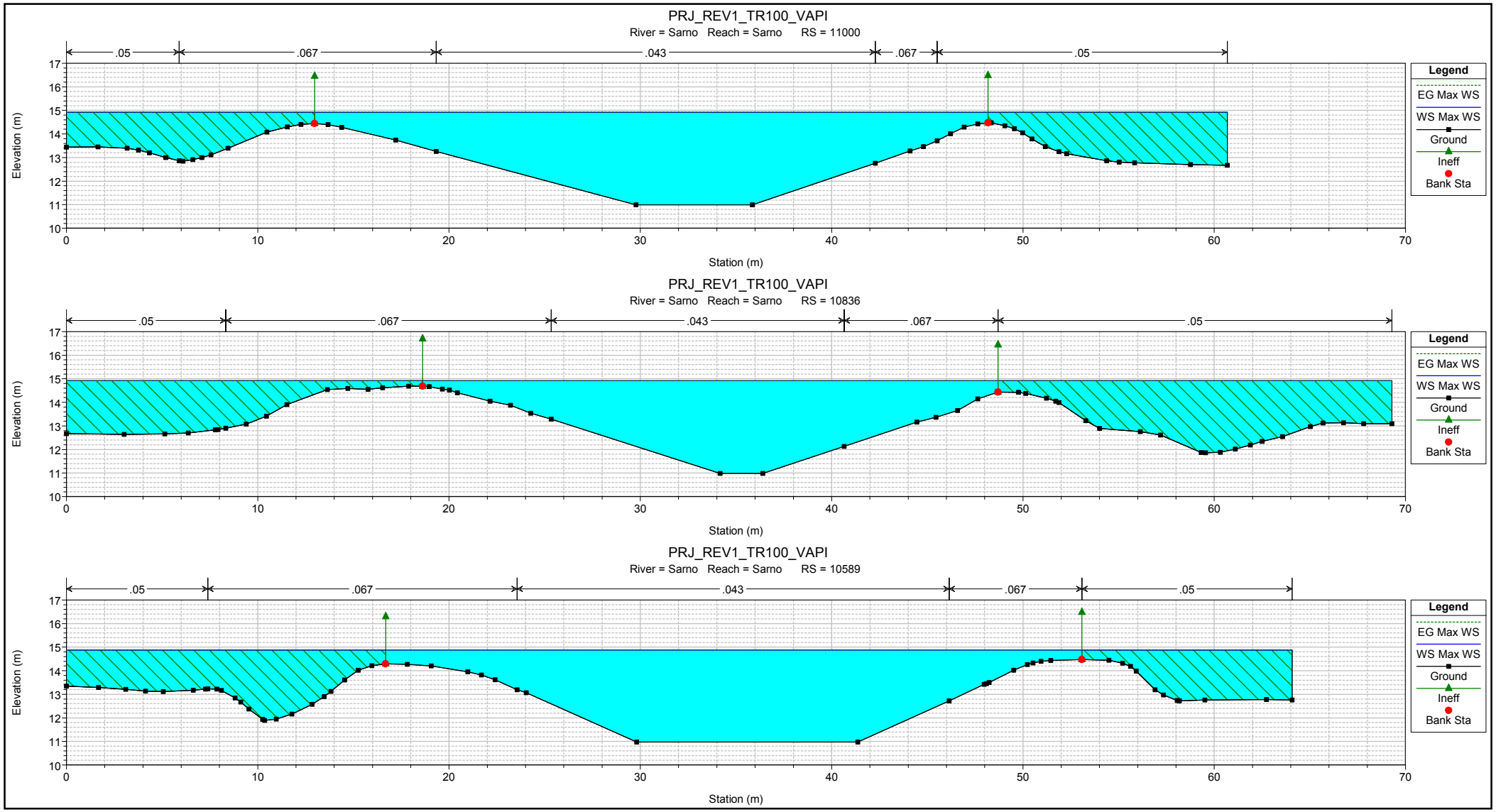

PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 605
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 527
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Nocerino Reach = Nocerino RS = 227
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

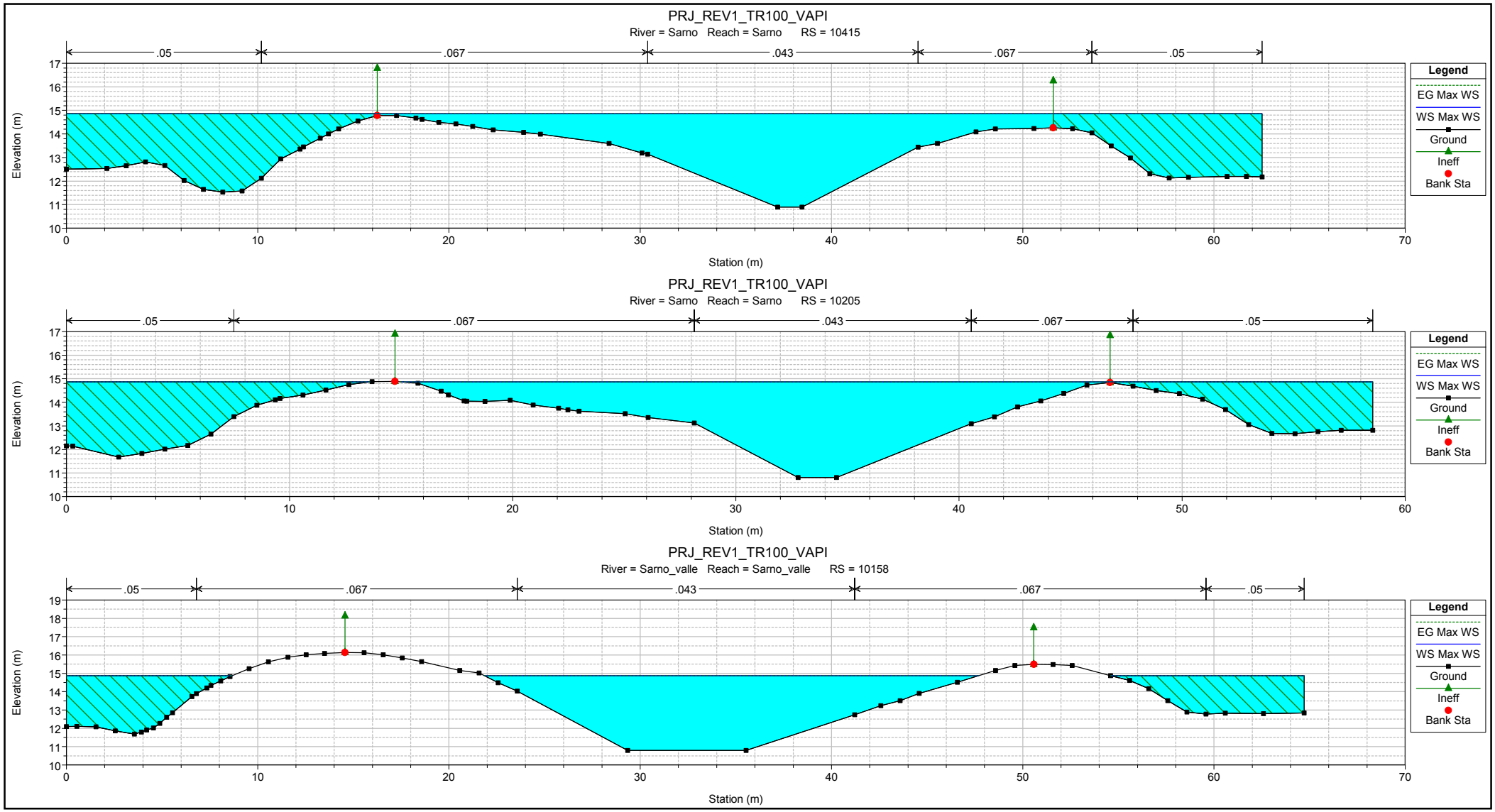

PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12874
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12610
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12325
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

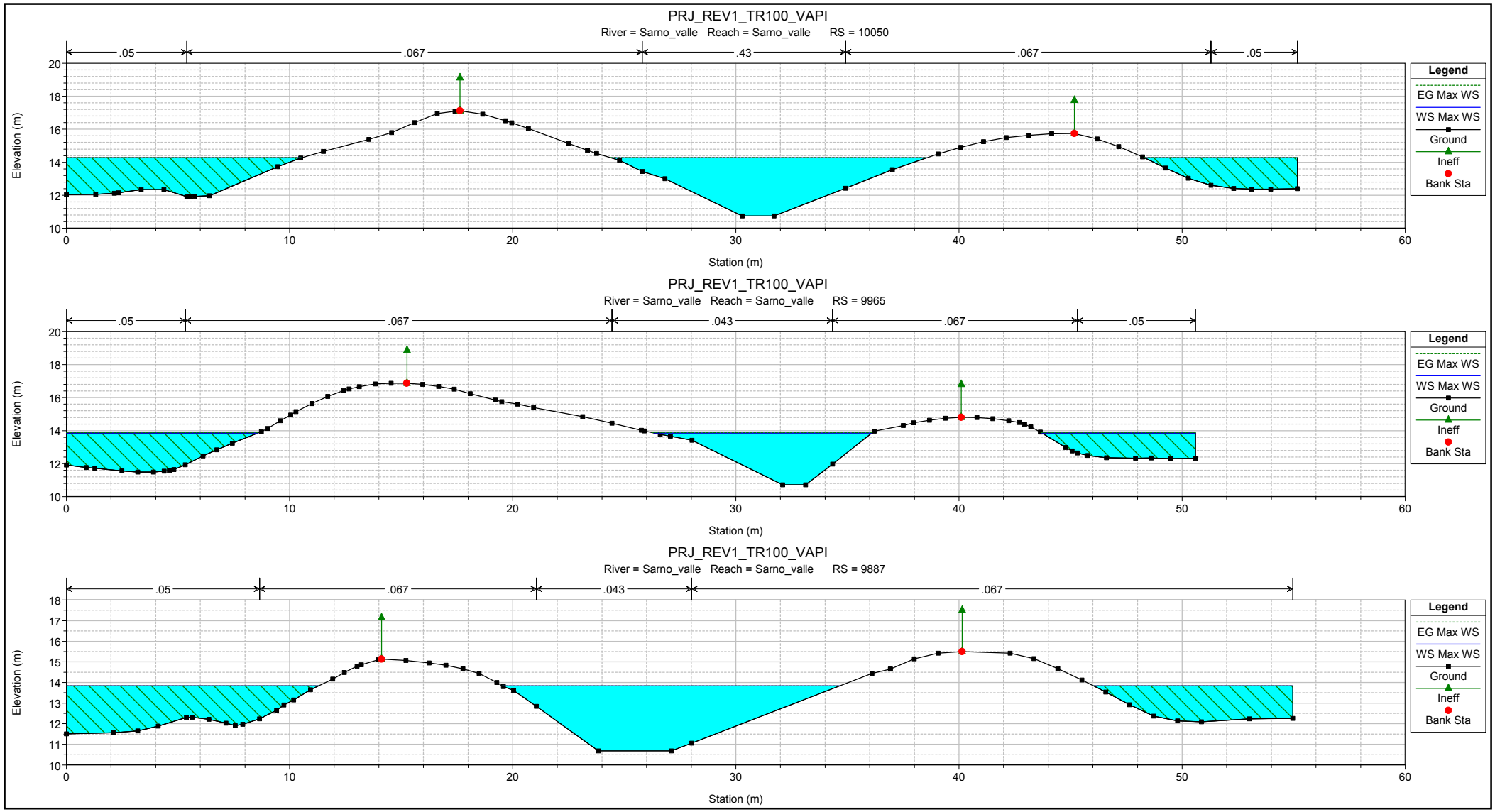

PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12196
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 12006
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11856
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

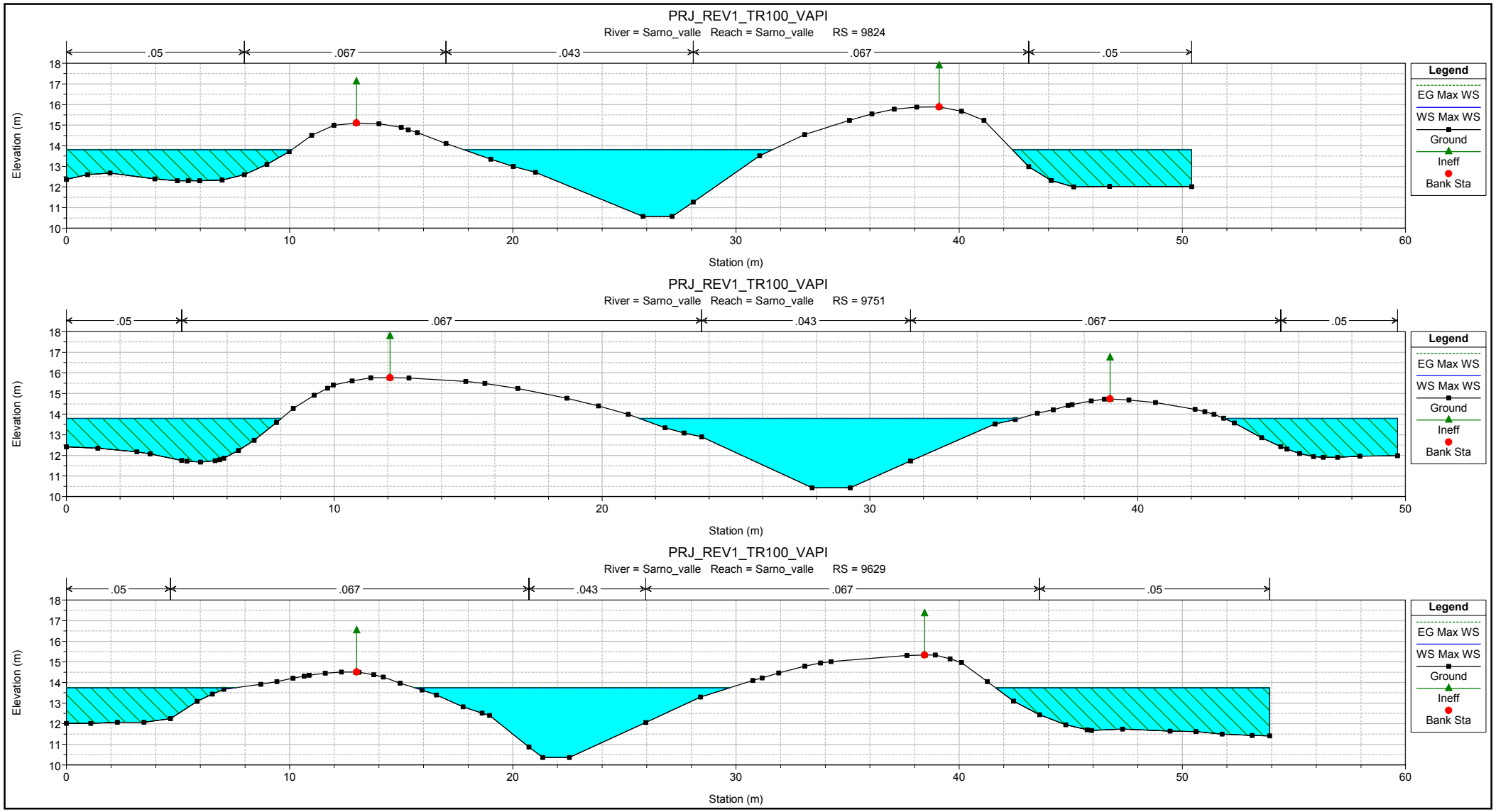

PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11698
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11660
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11647
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

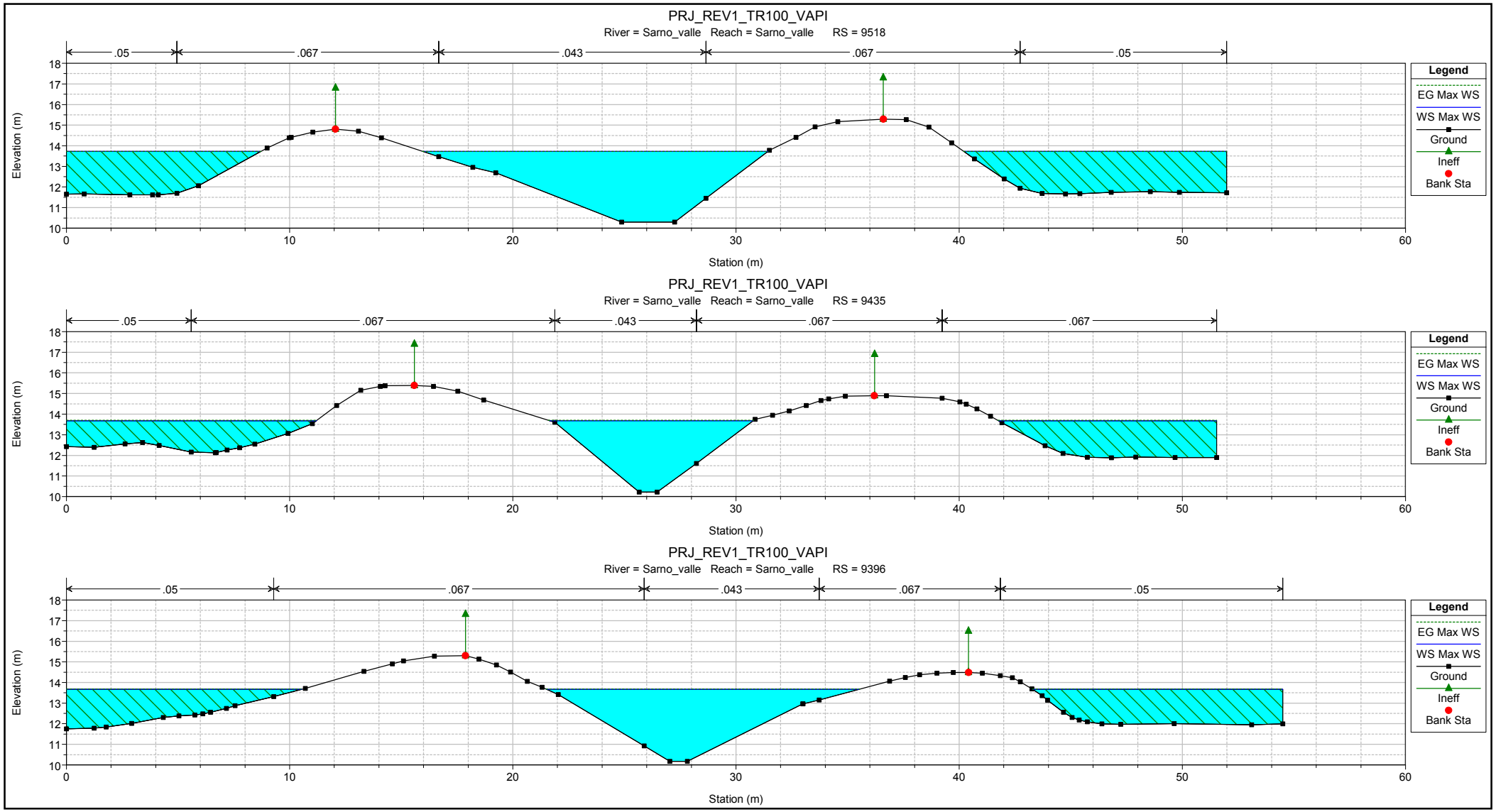

PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11598
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11539
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11326
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

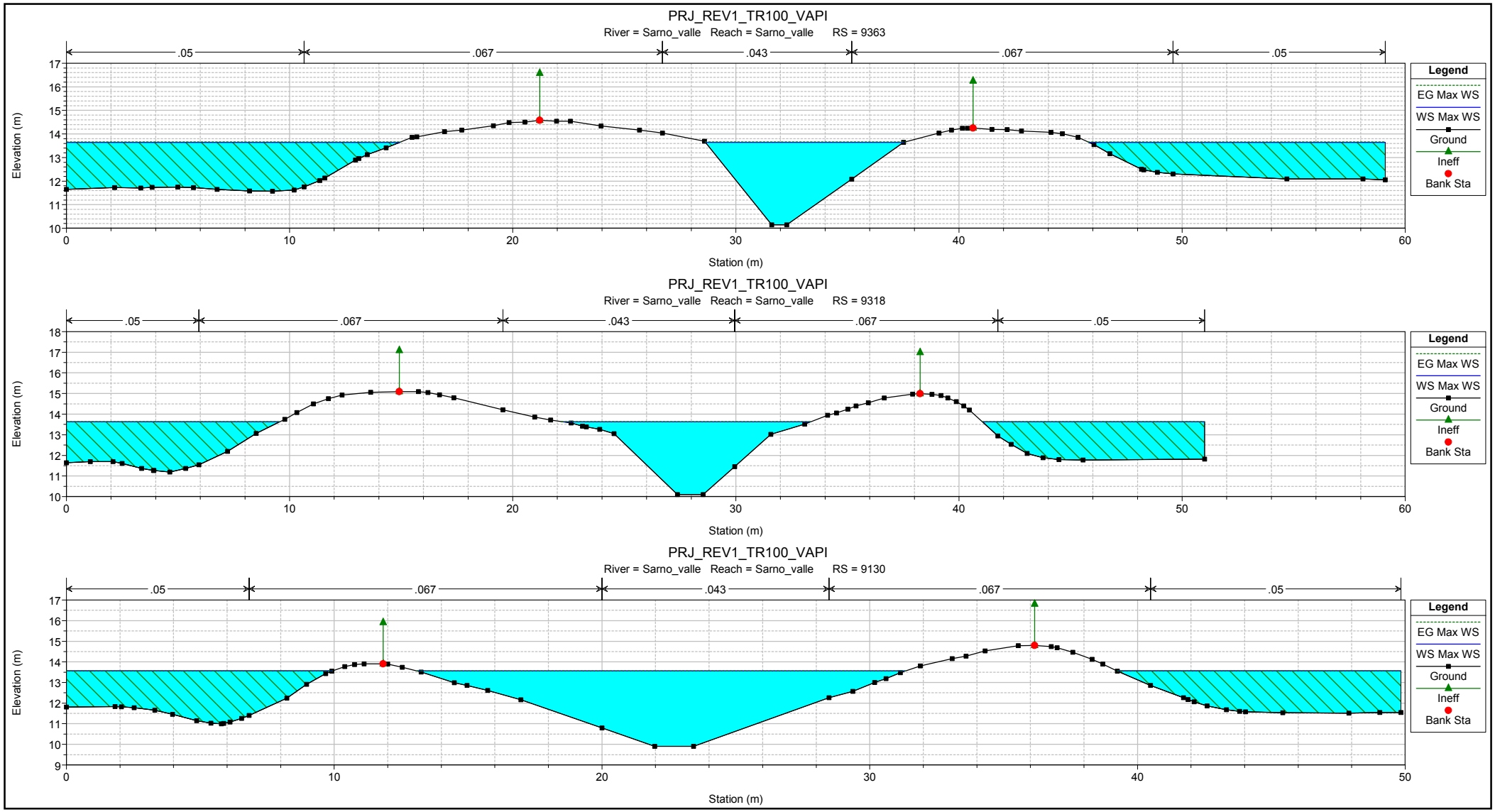

PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 11000
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 10836
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 10589
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

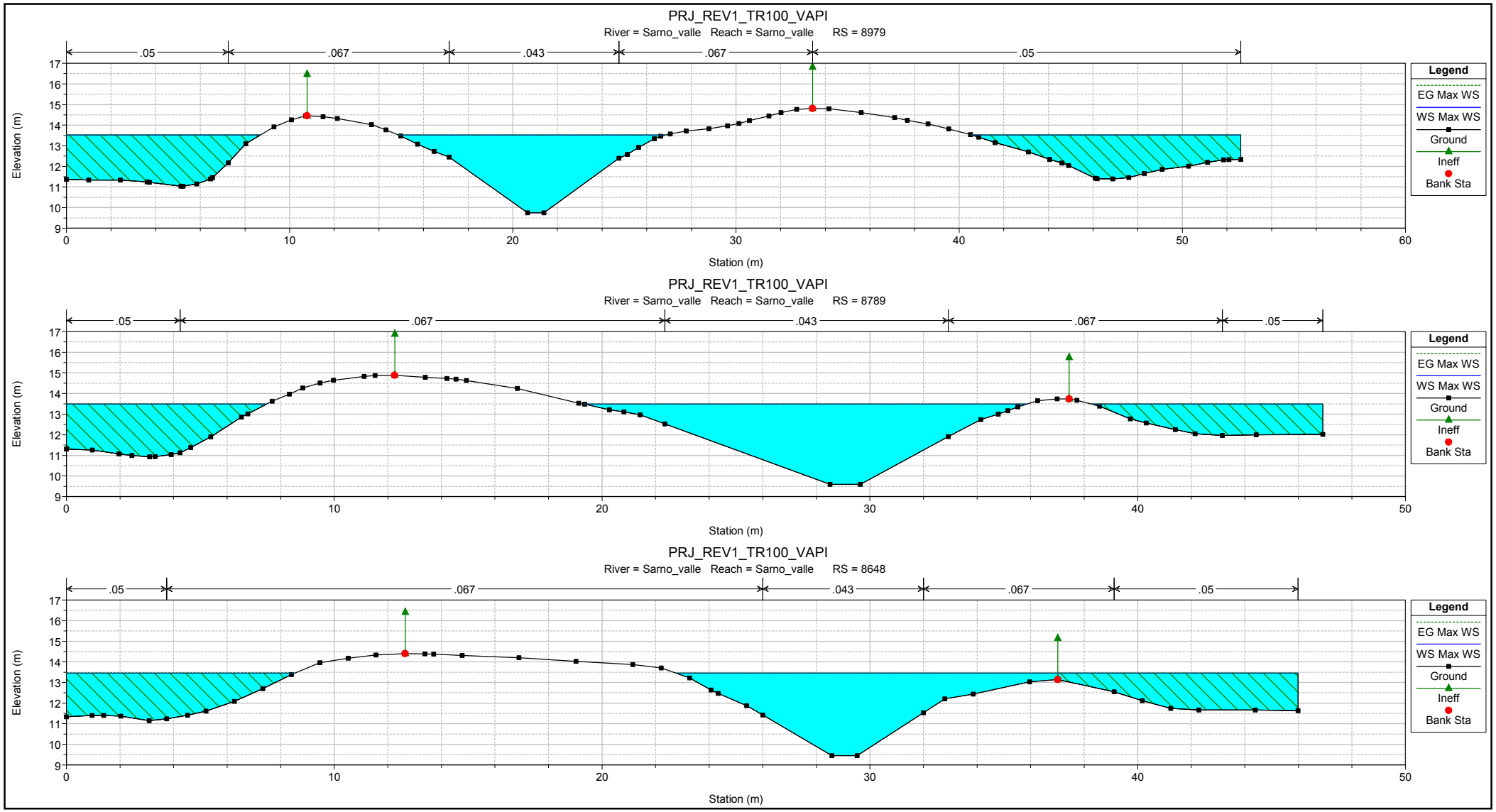

PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 10415
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno Reach = Sarno RS = 10205
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10158
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

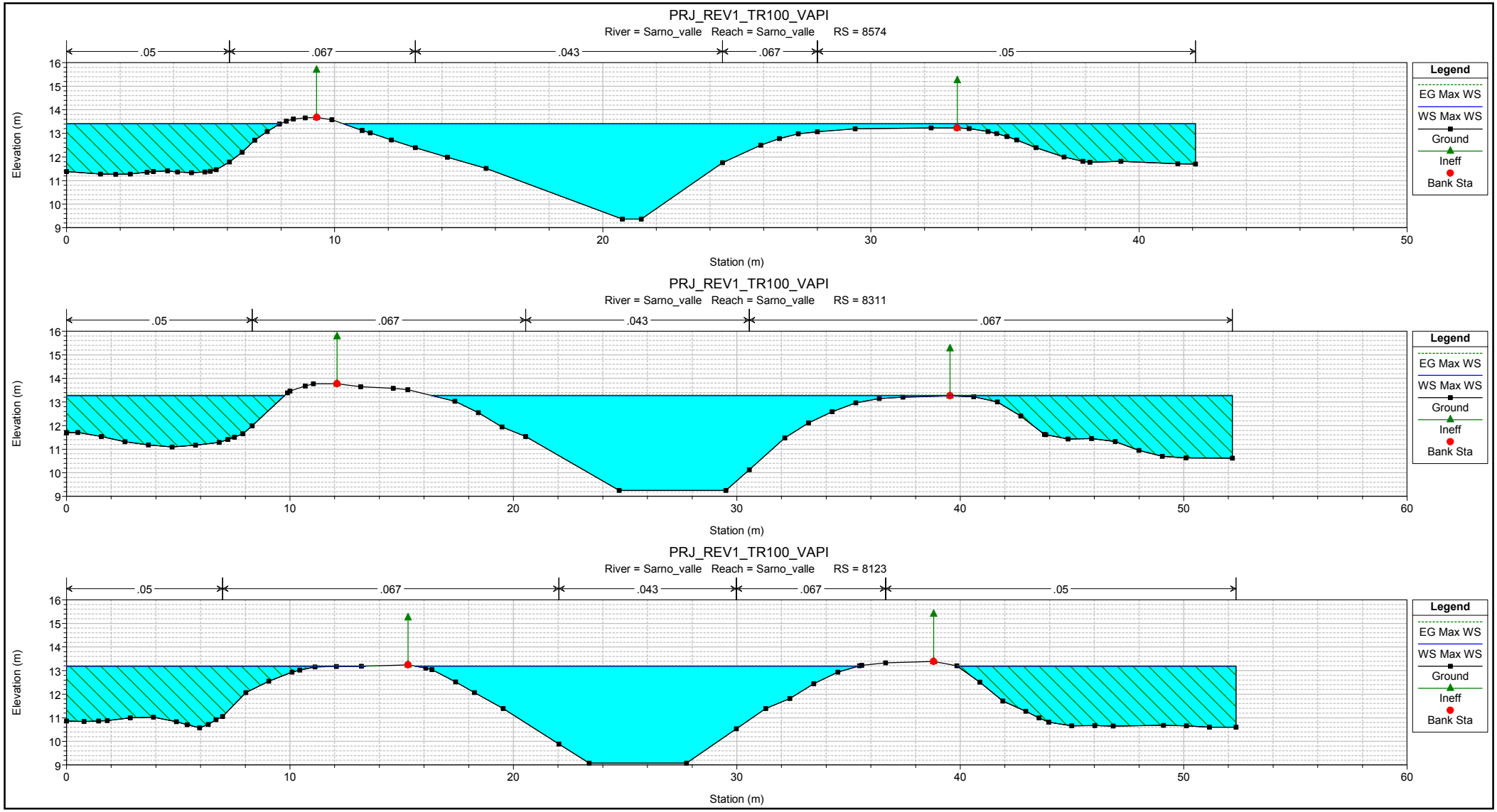

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10050
.05
.067
.43
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9965
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9887
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

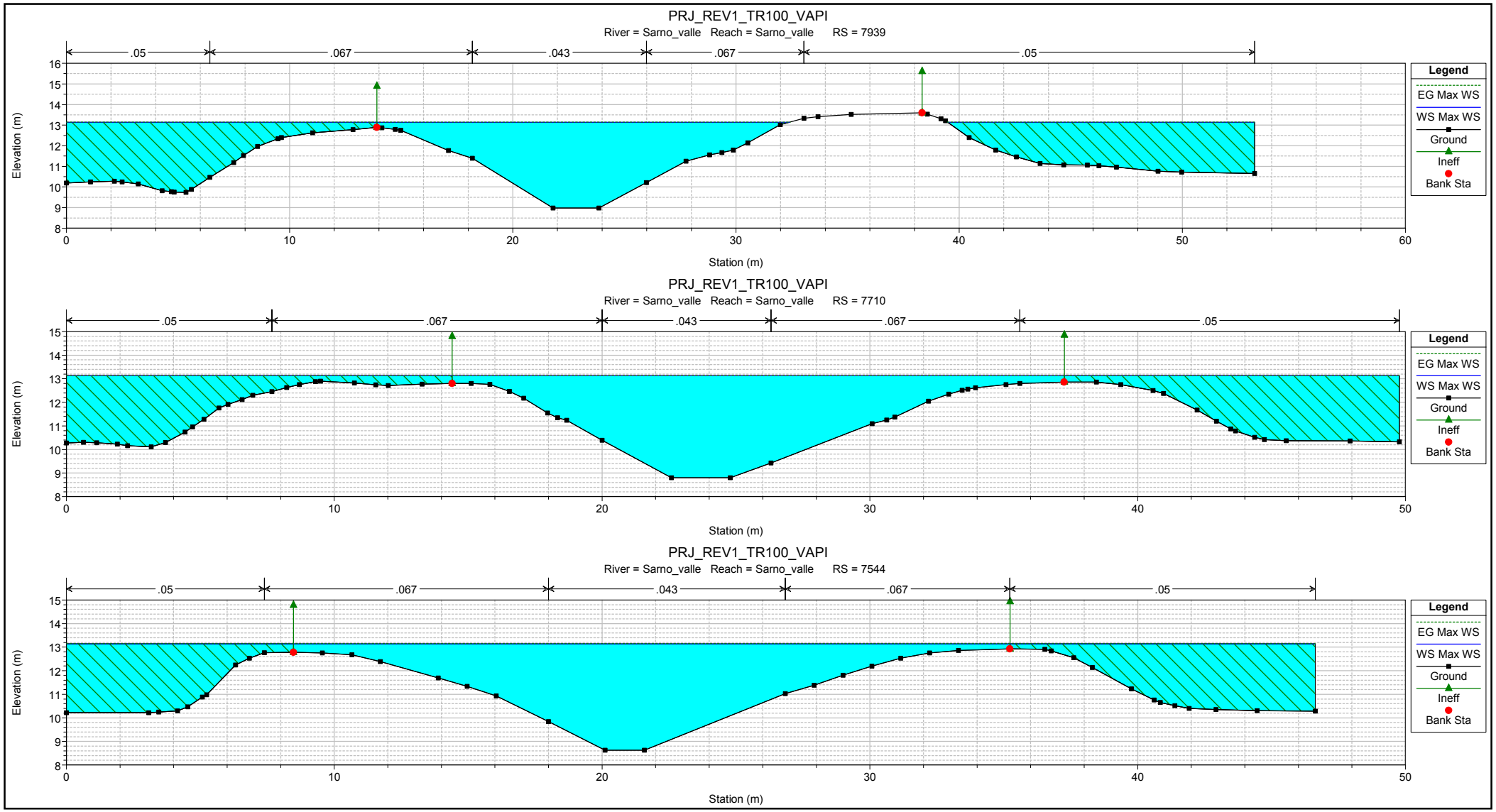

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9824
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9629
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

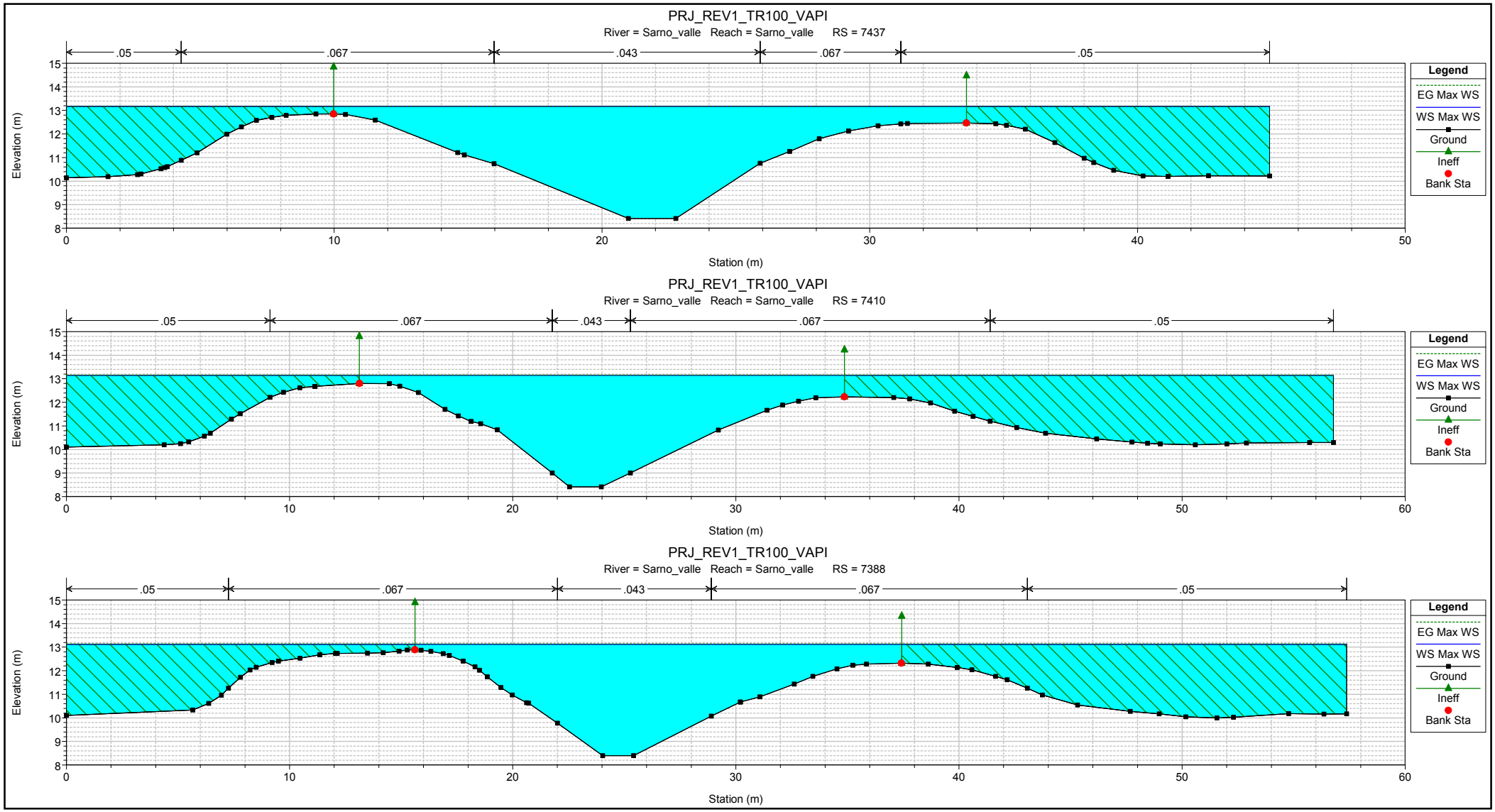

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9518
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9435
.05
.067
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9396
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

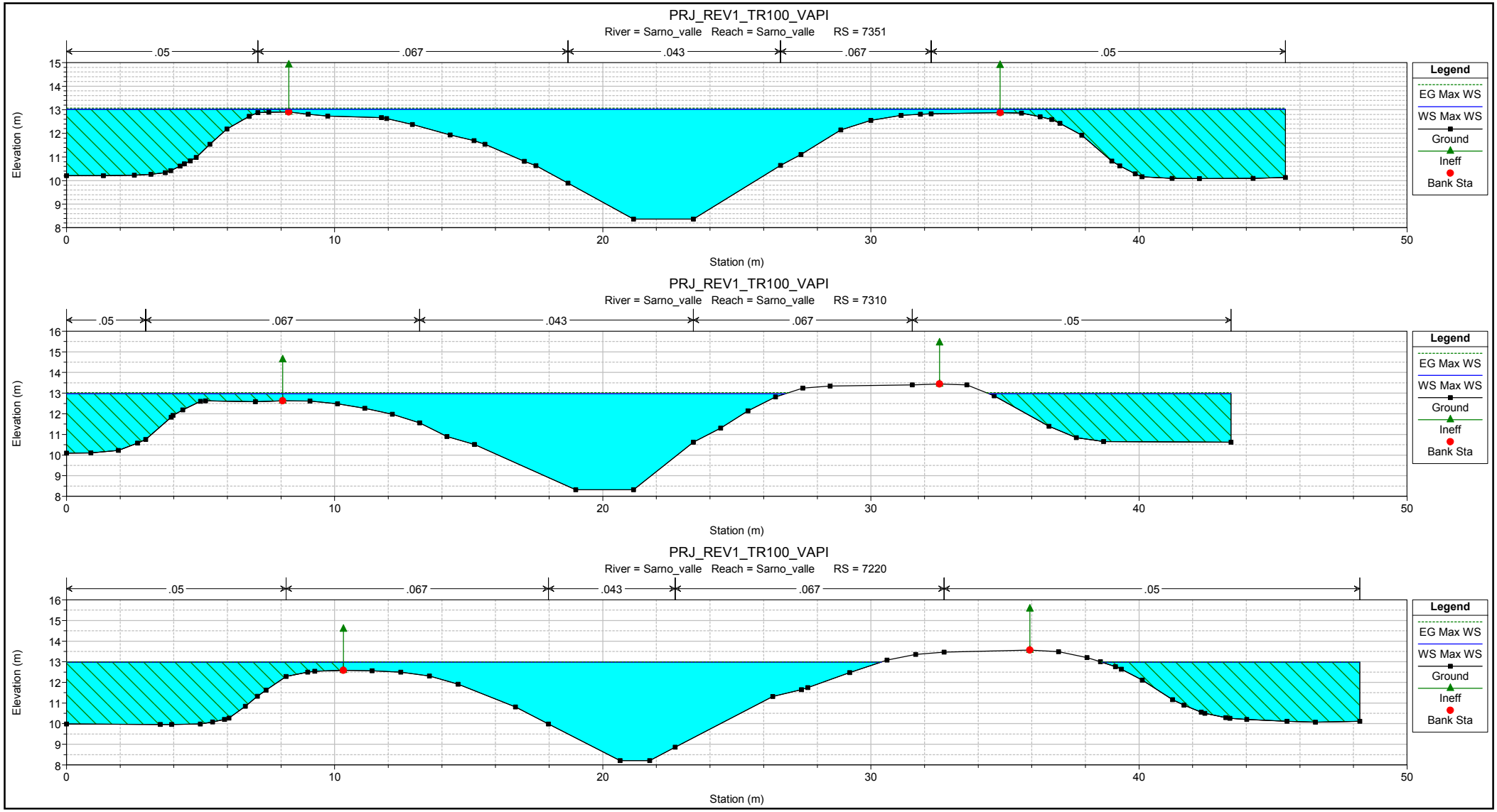

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9363
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9318
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9130
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

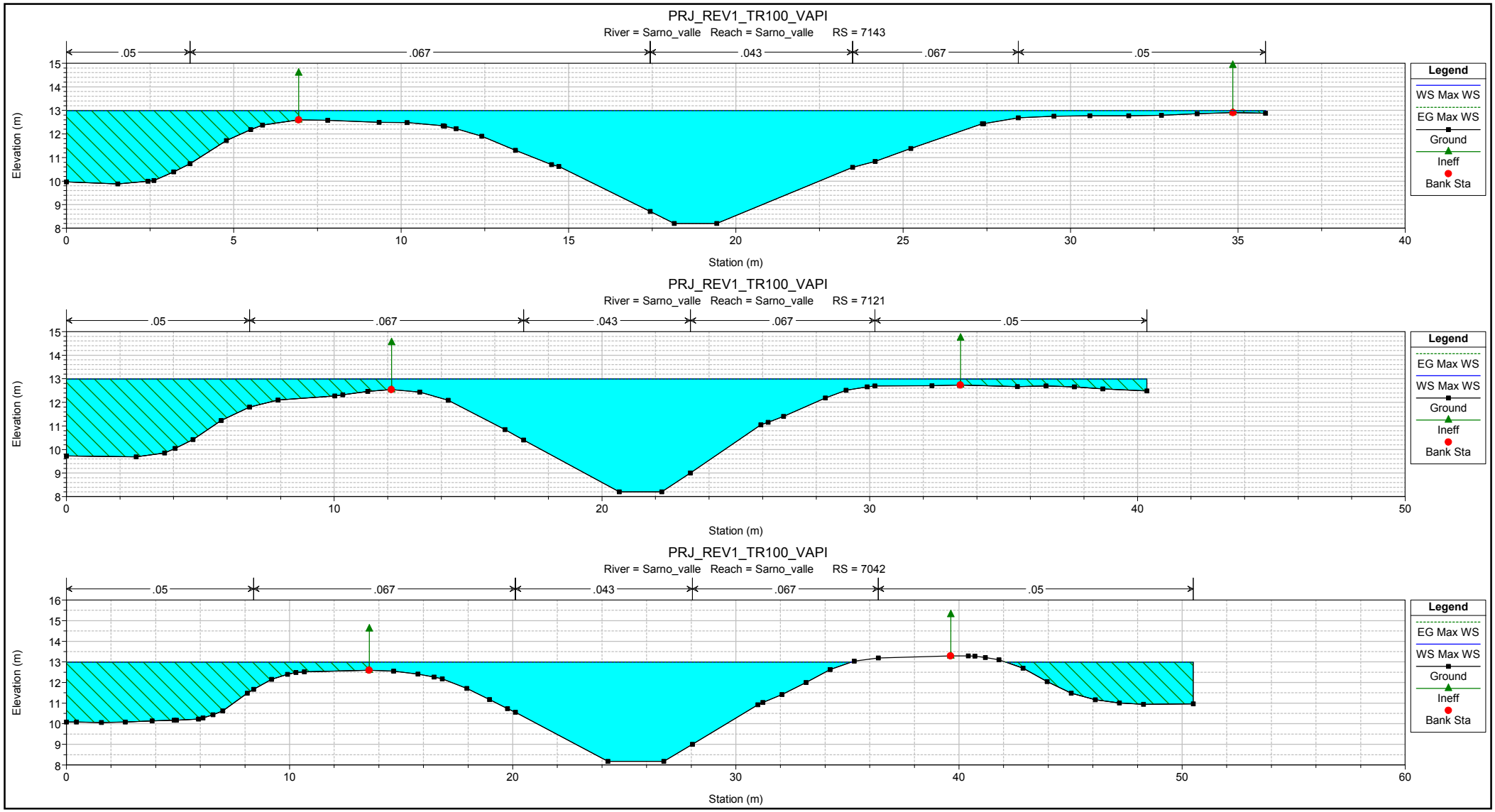

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8979
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8789
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8648
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

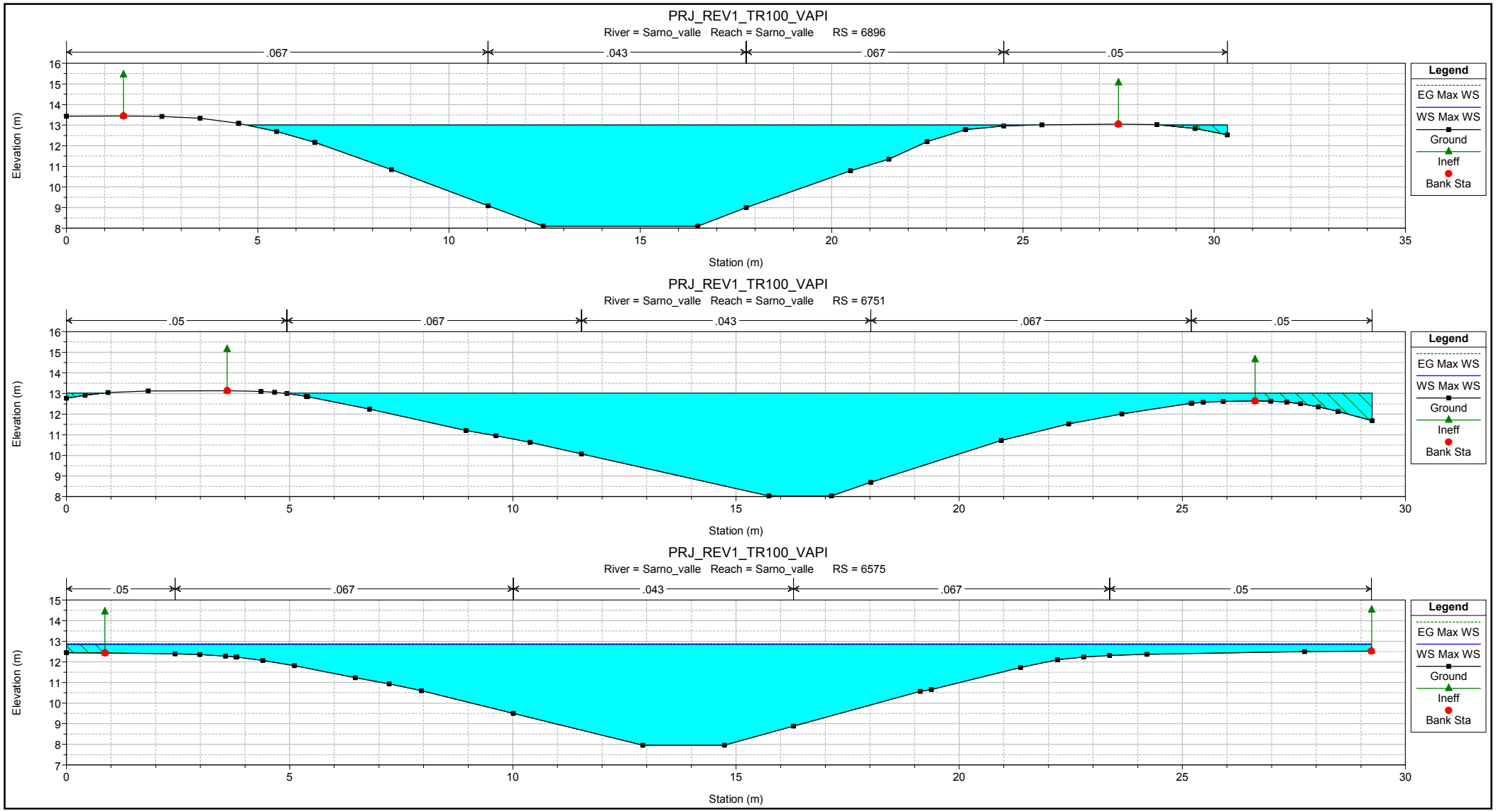

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8574
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8311
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8123
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

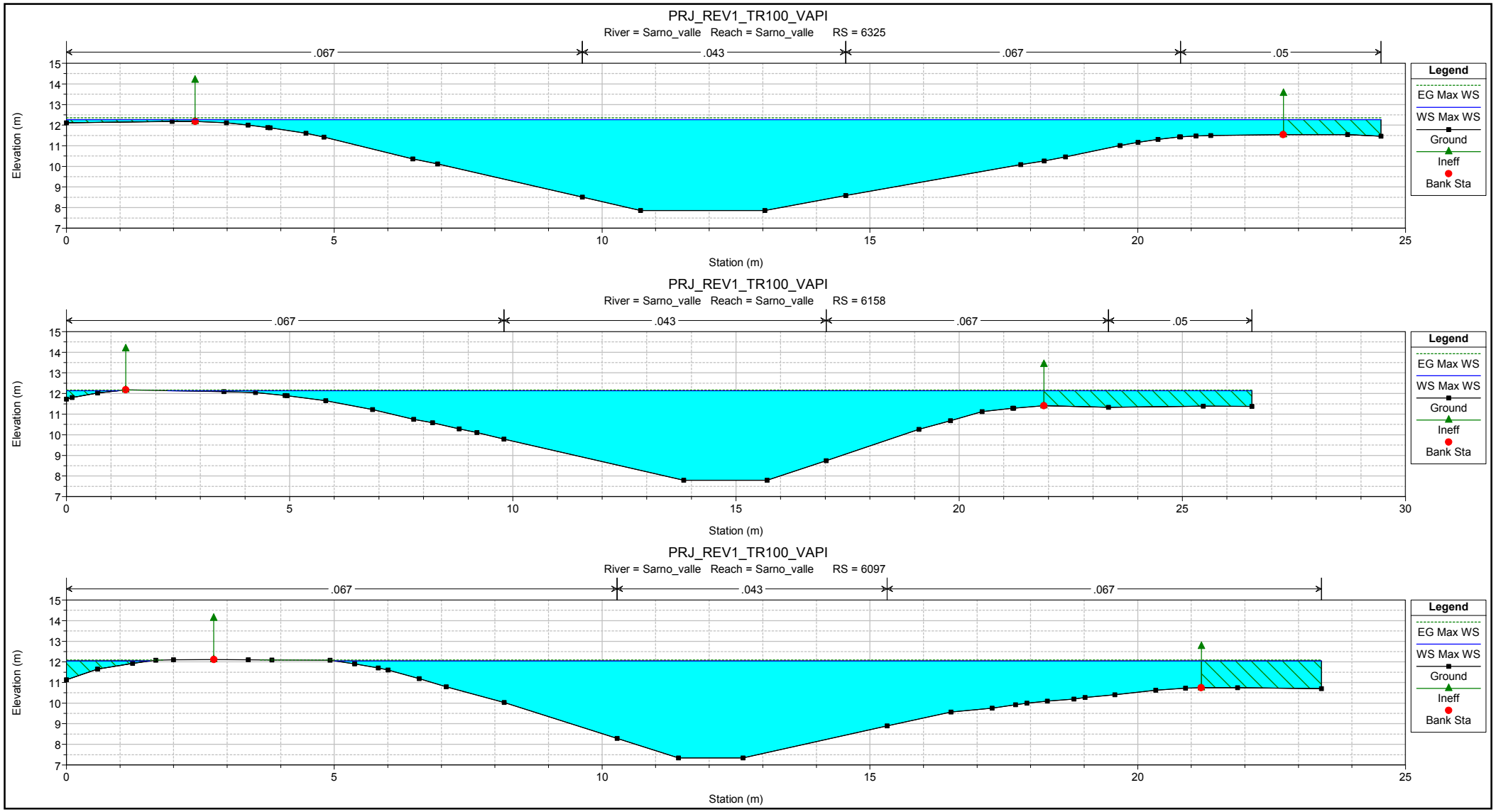

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7939
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7710
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7544
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

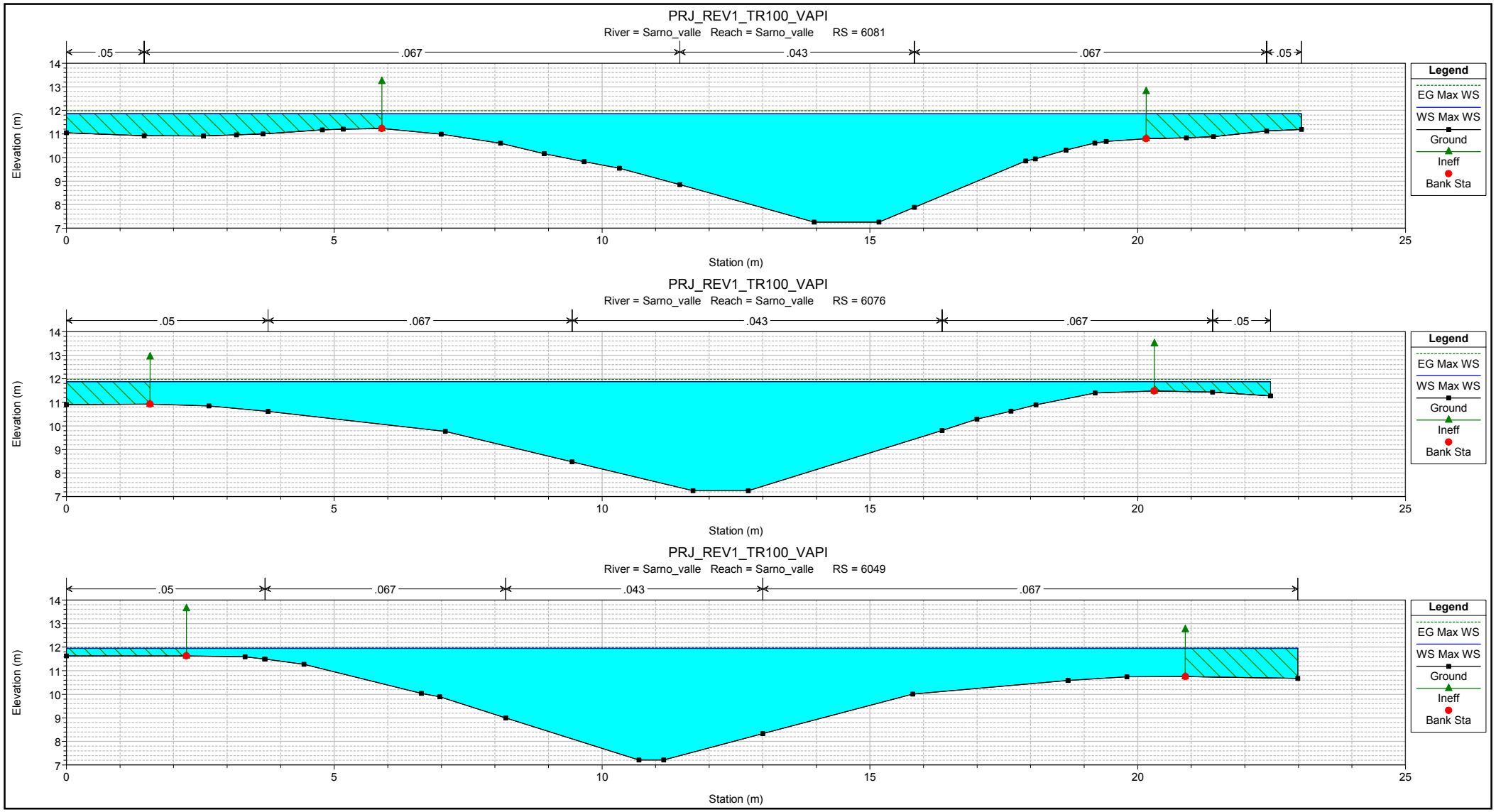

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7410
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7388
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

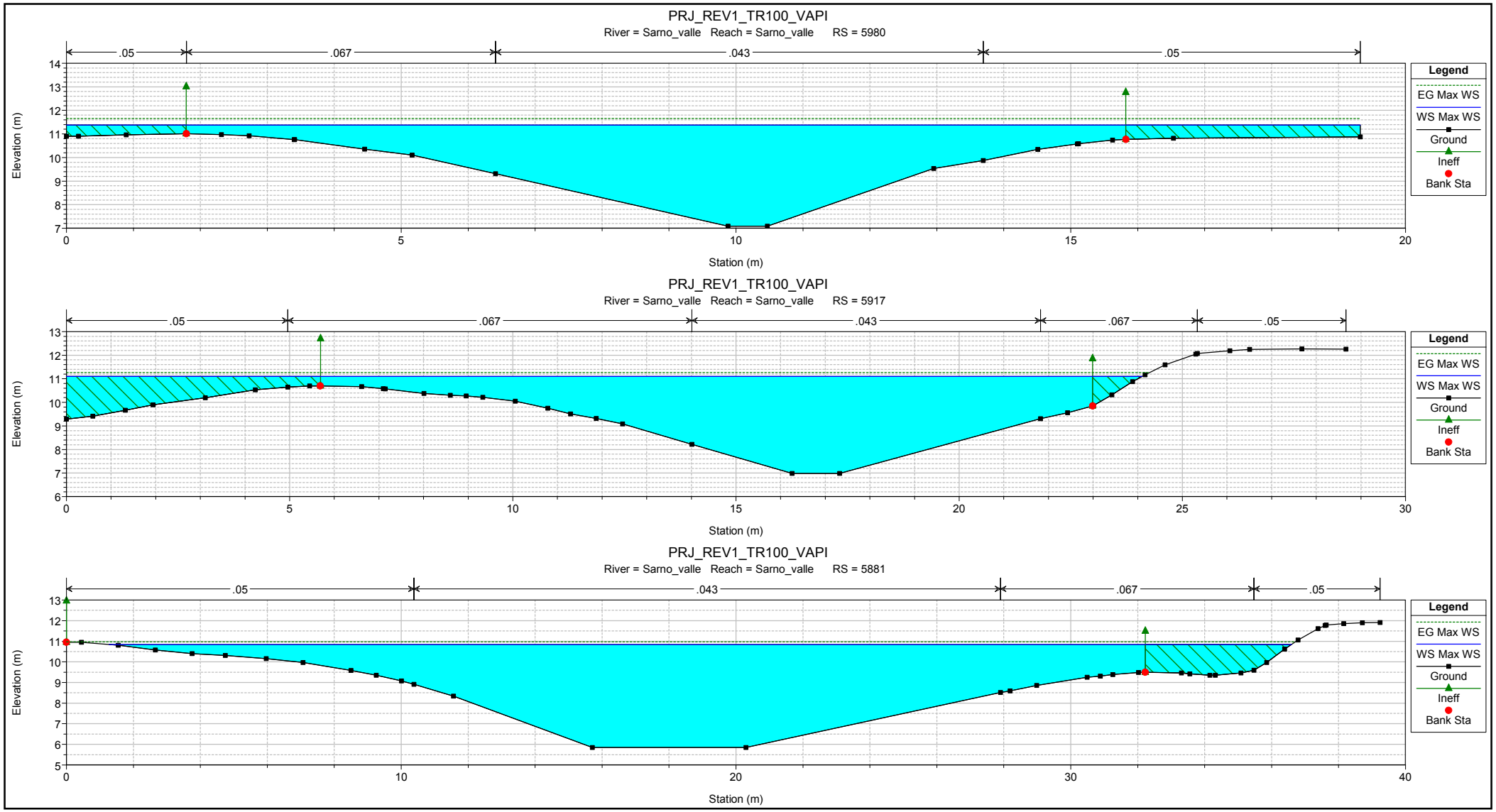

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7310
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

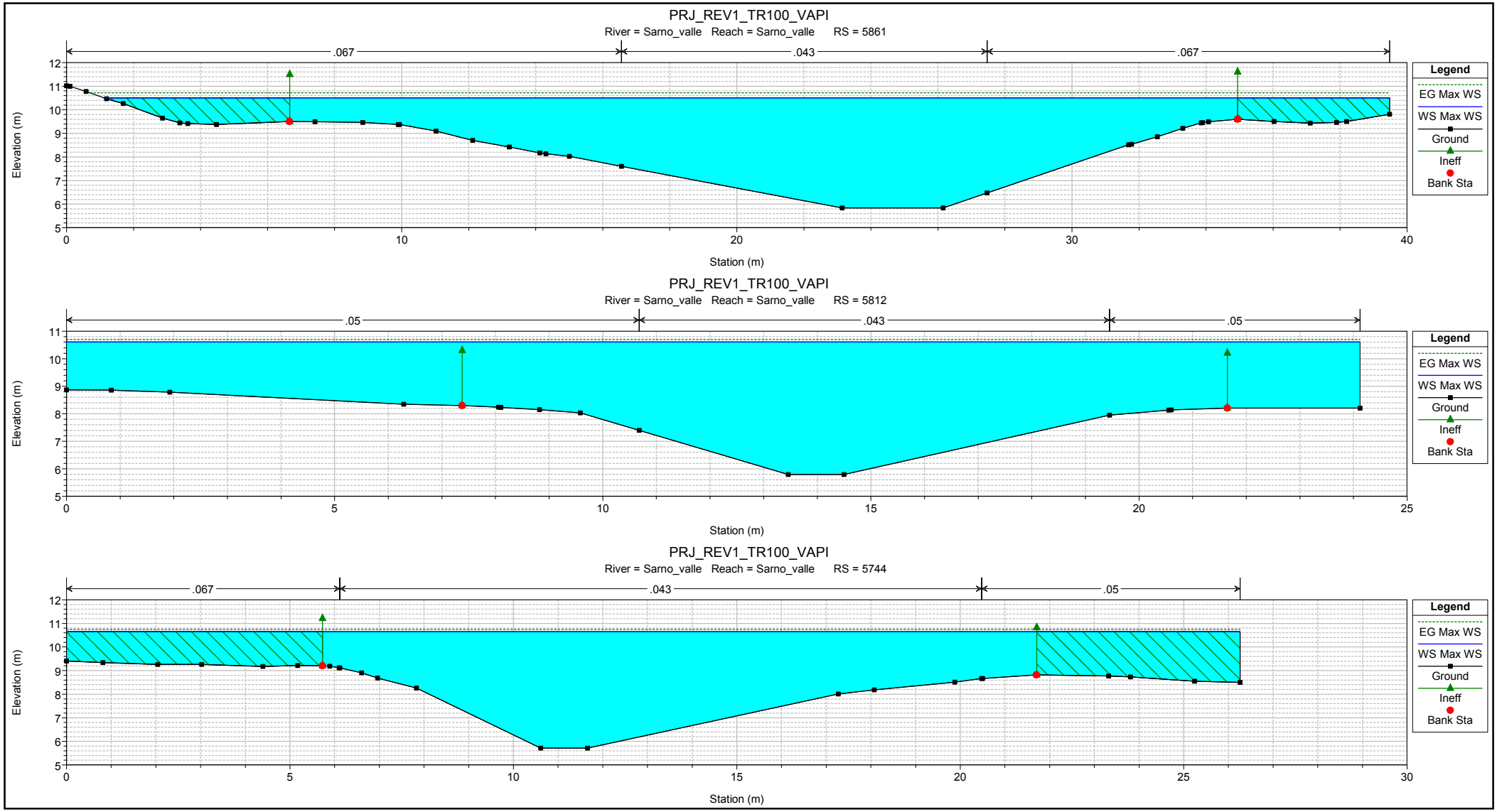

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7143
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
WS Max WS
EG Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7121
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7042
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

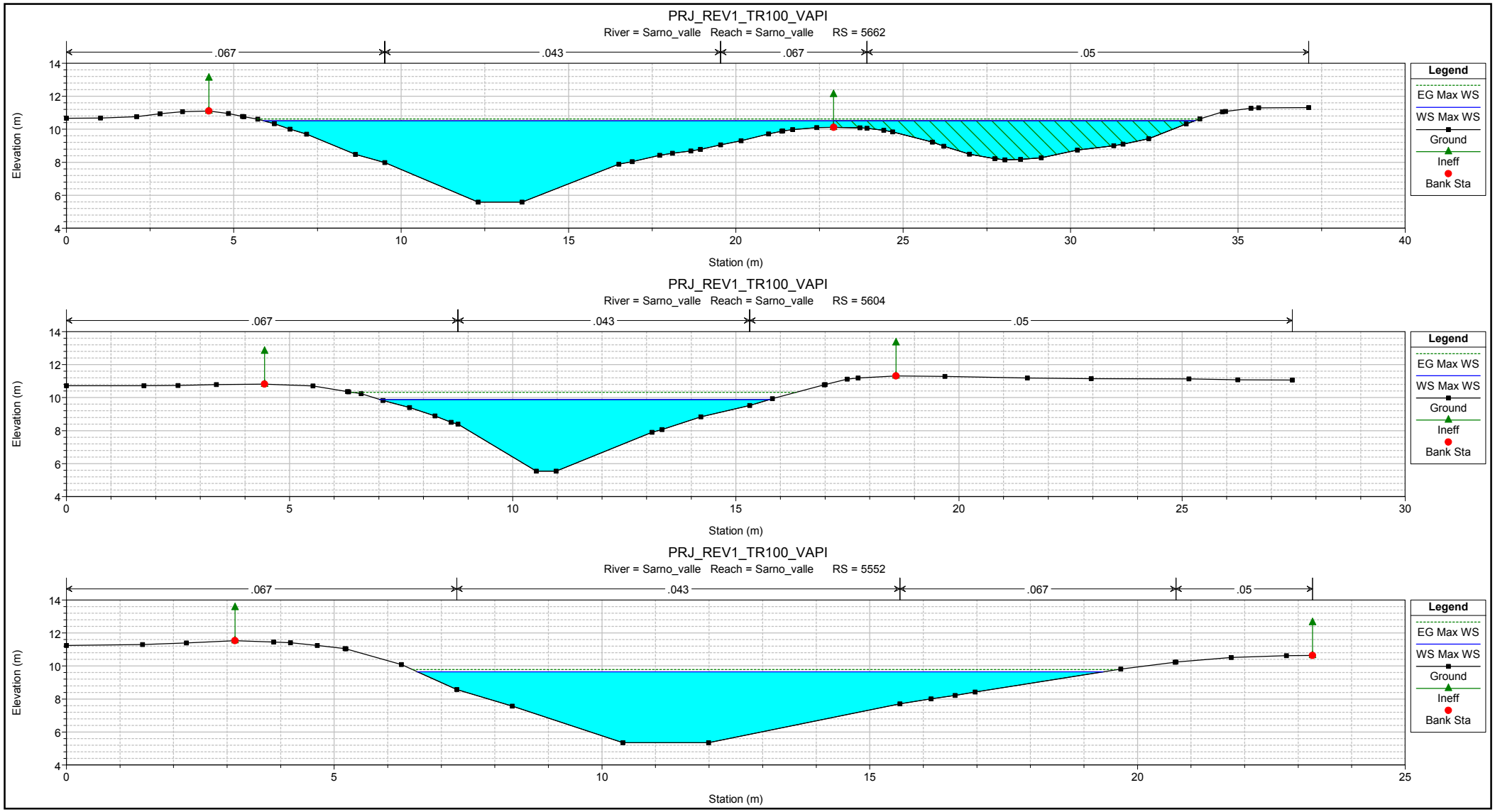

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6896
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6575
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

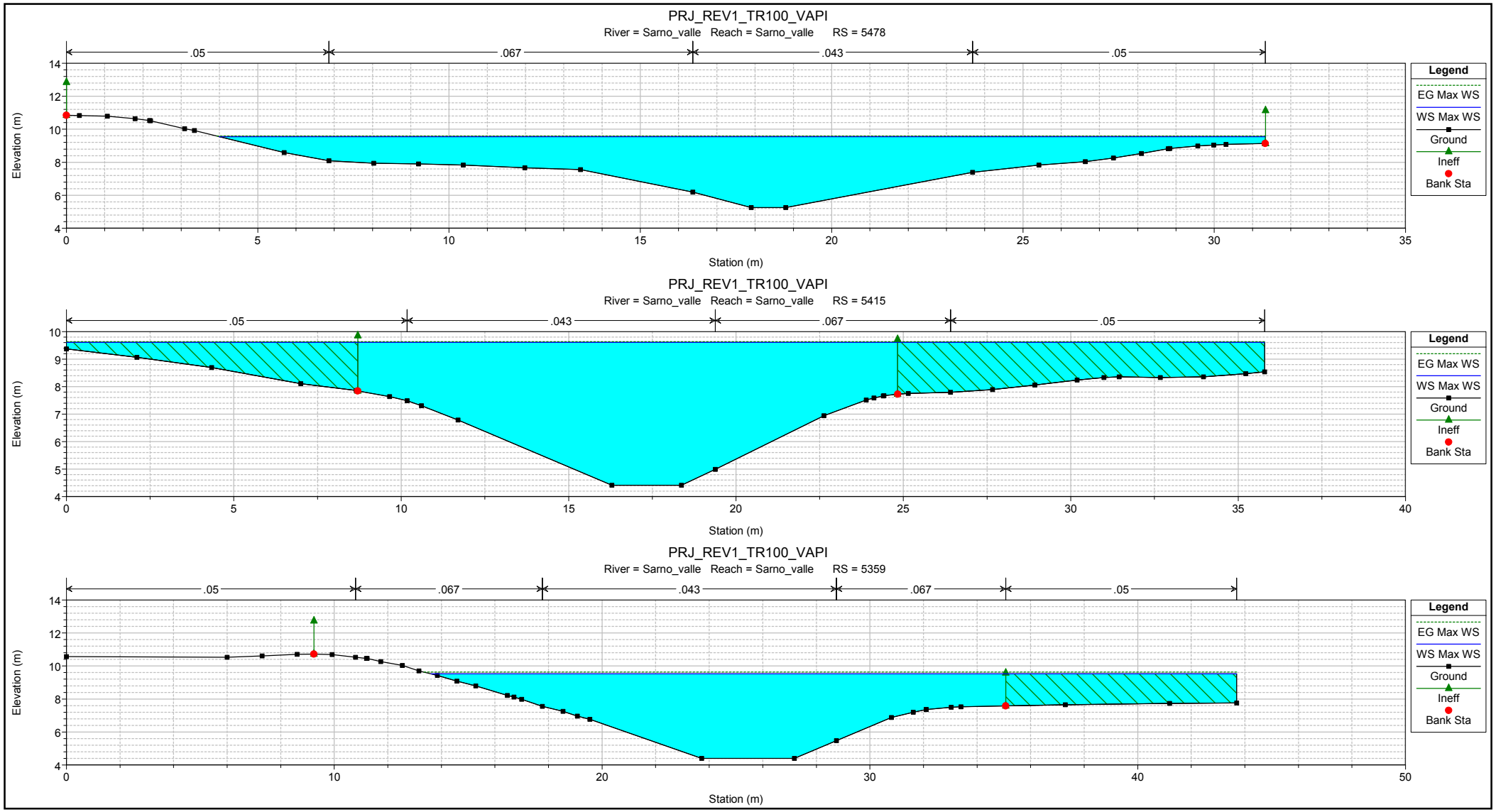

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6325
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6158
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6097
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

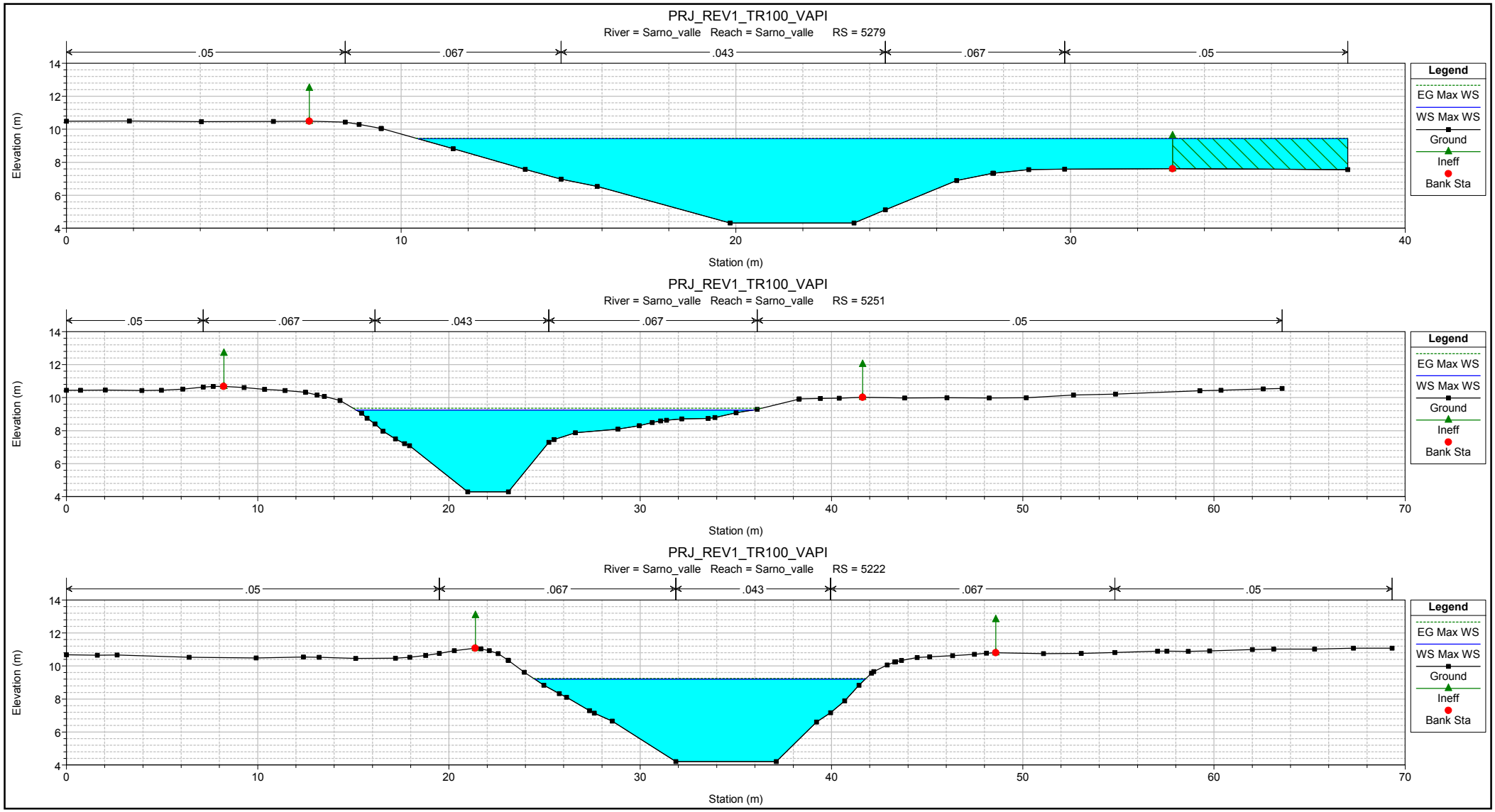

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6081
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6076
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6049
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

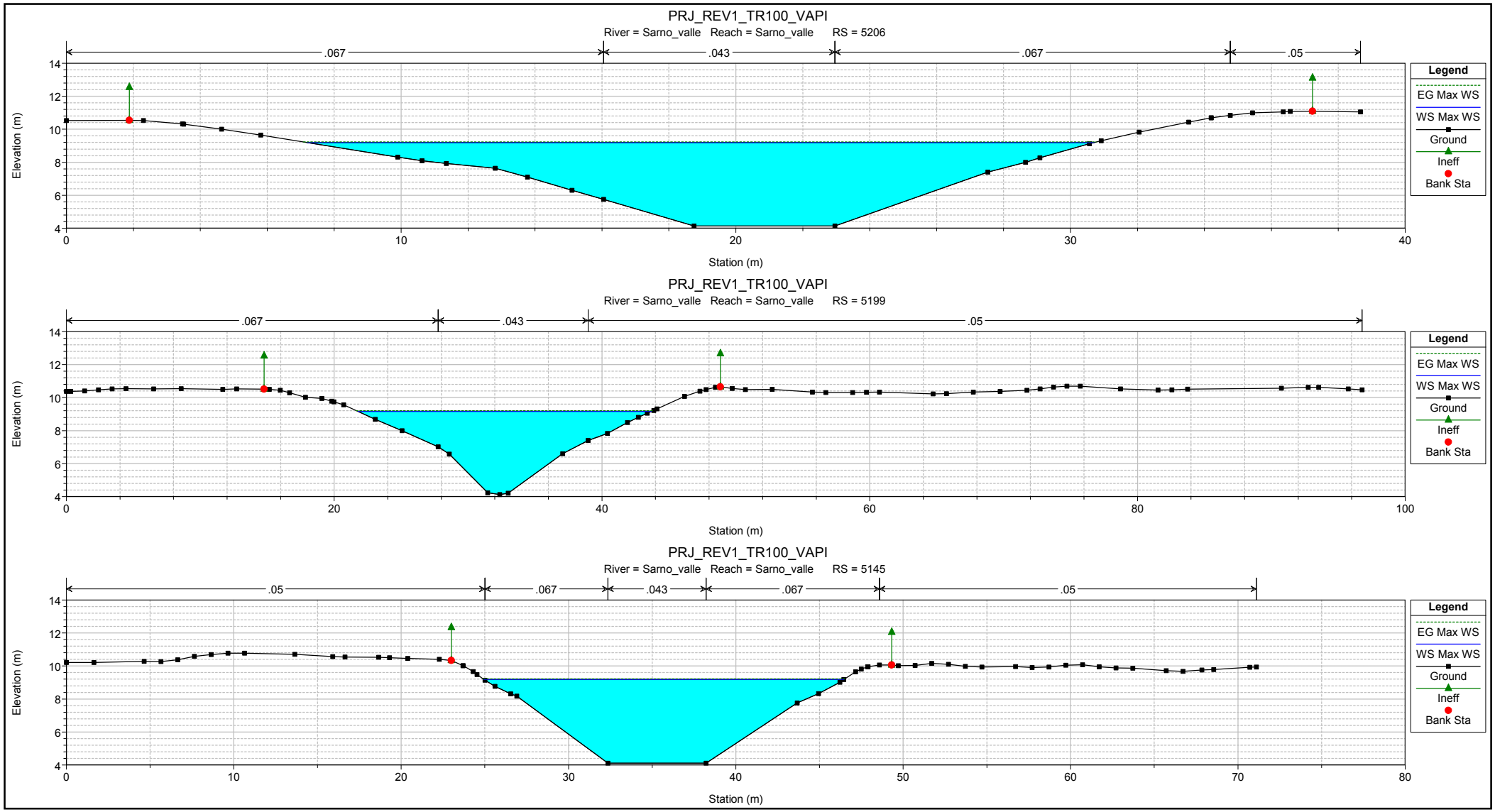

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5980
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5917
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5881
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

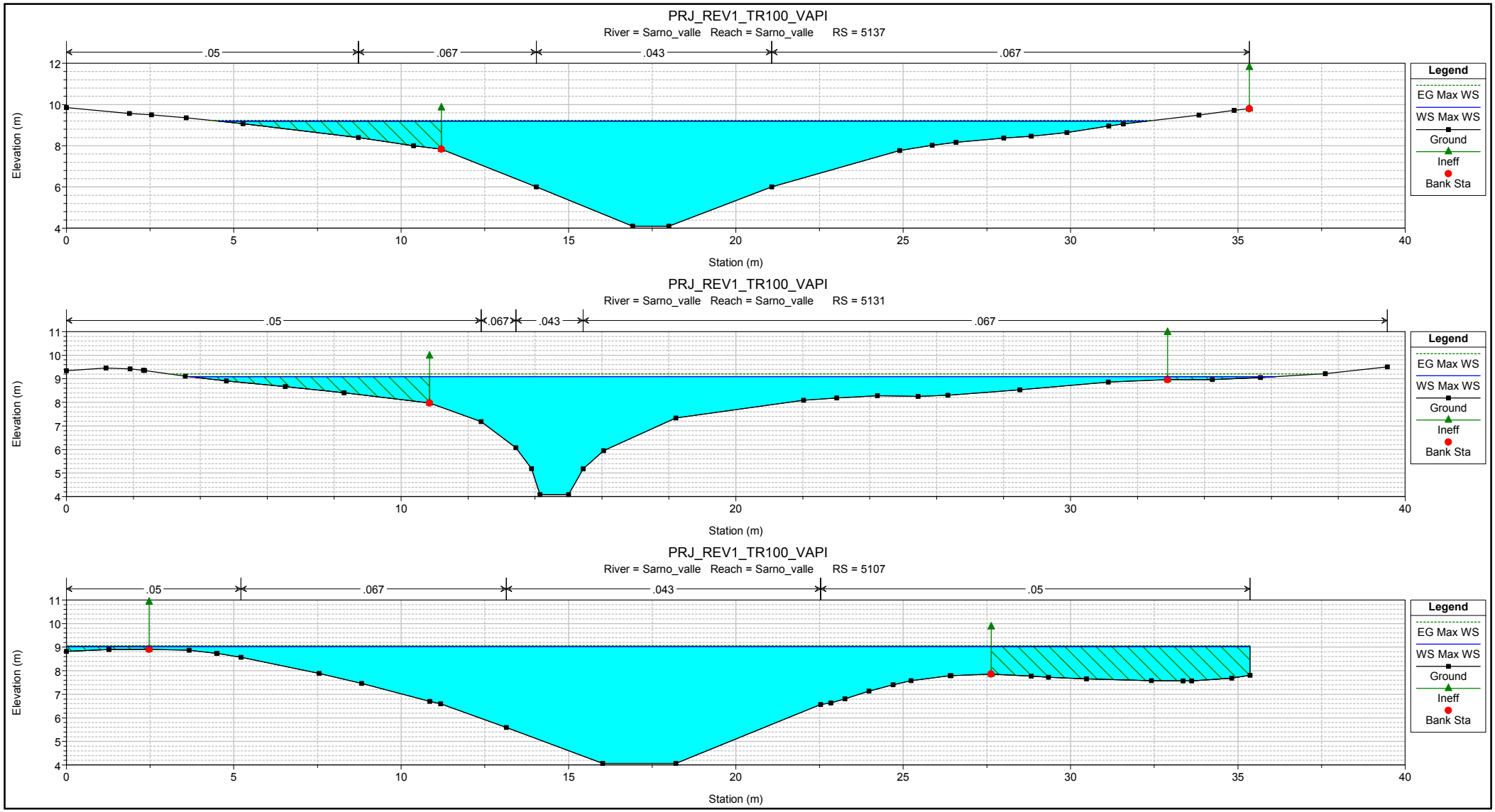

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5861
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5812
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5744
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

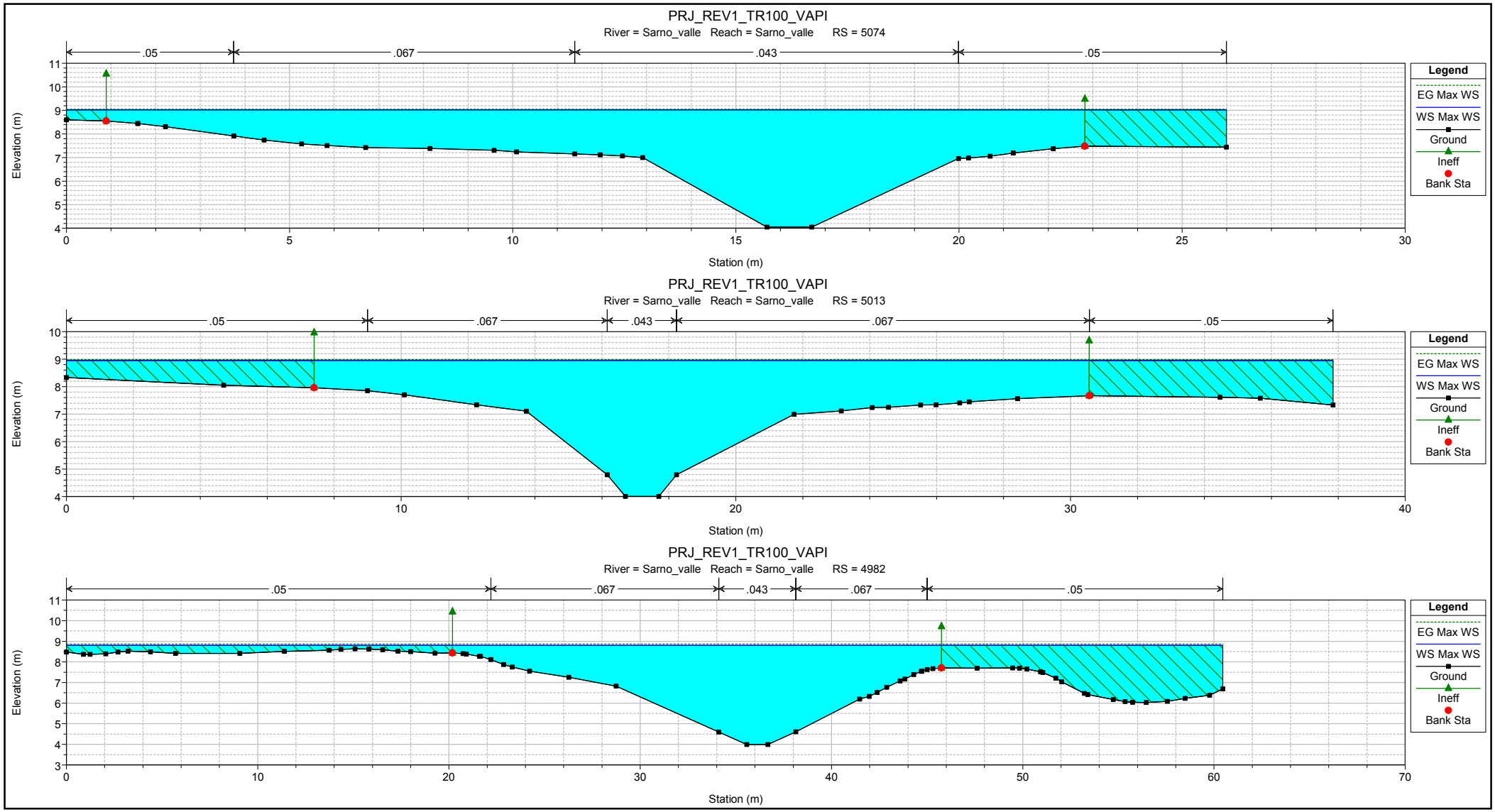

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5662
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5604
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5552
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

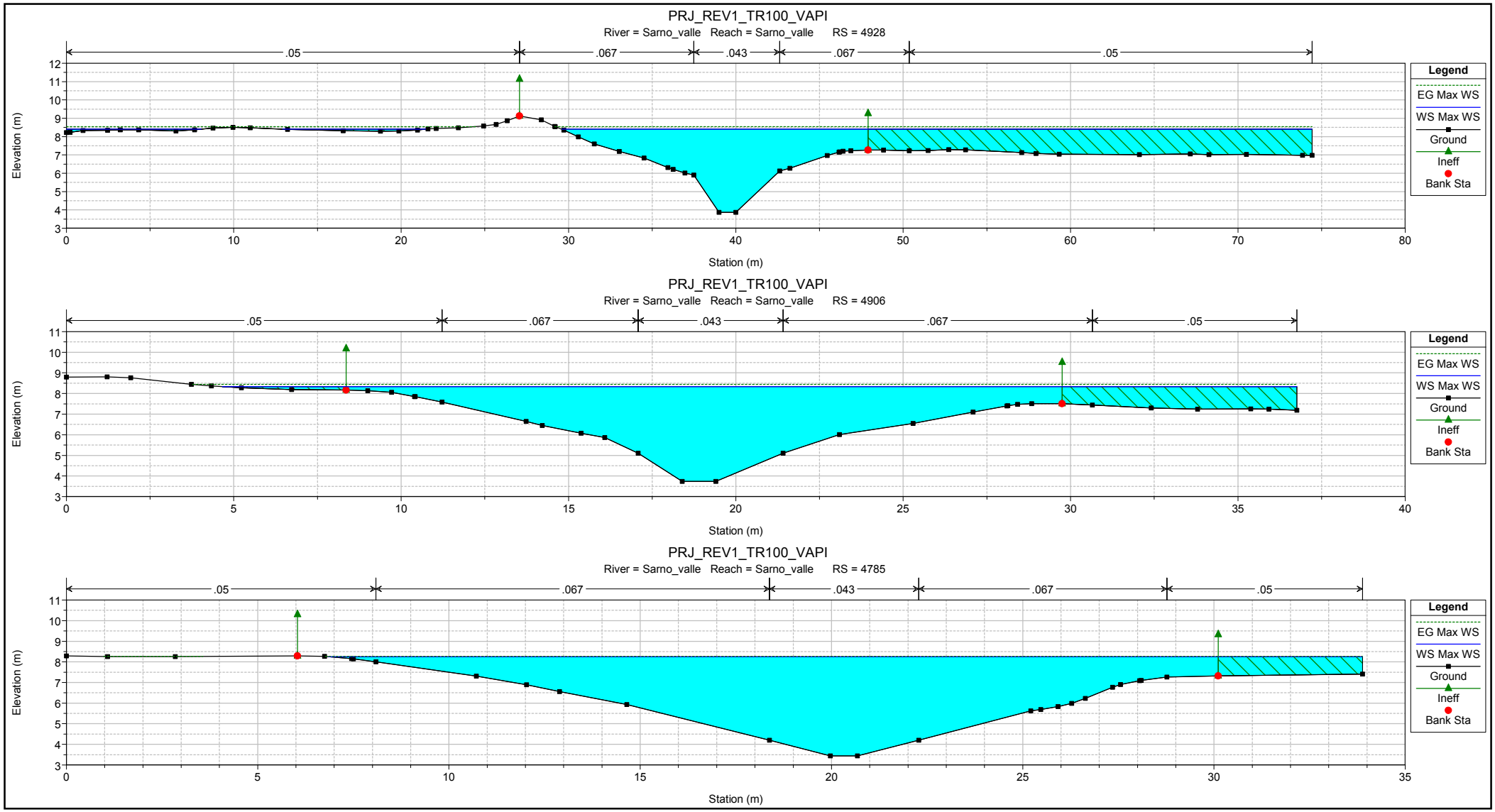

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5478
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5415
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5359
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

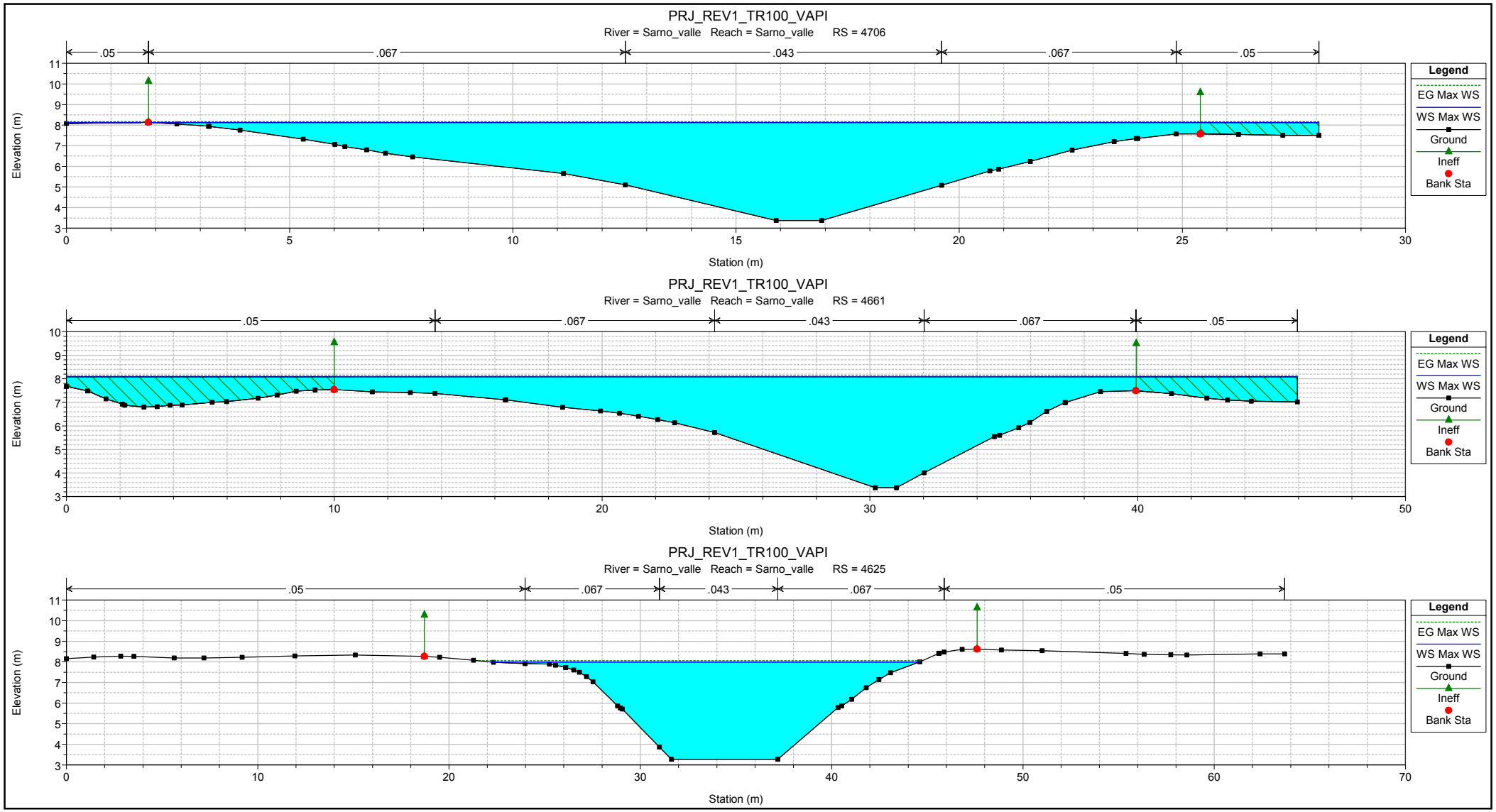

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5279
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5251
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5222
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

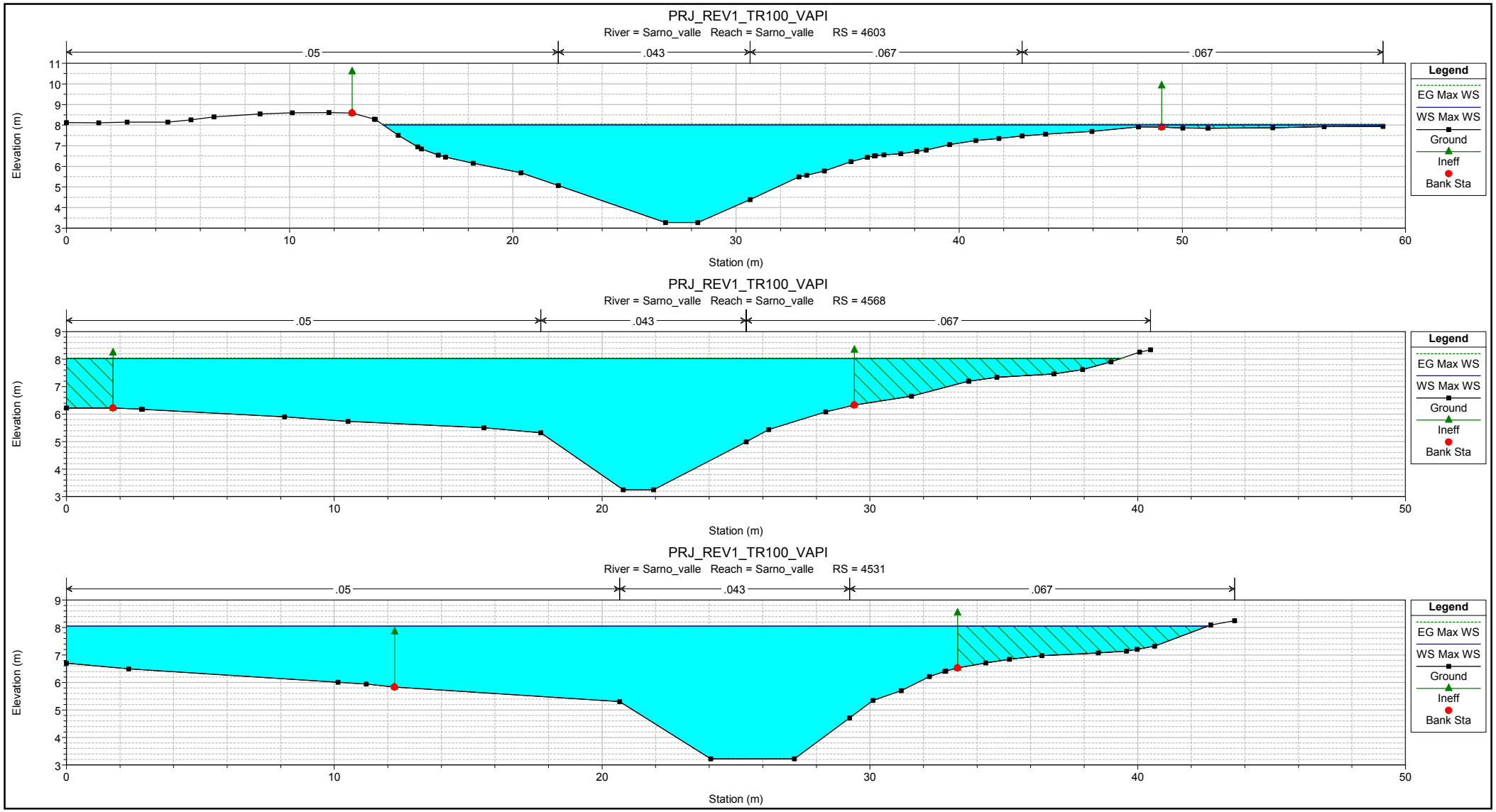

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5206
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5199
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5145
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

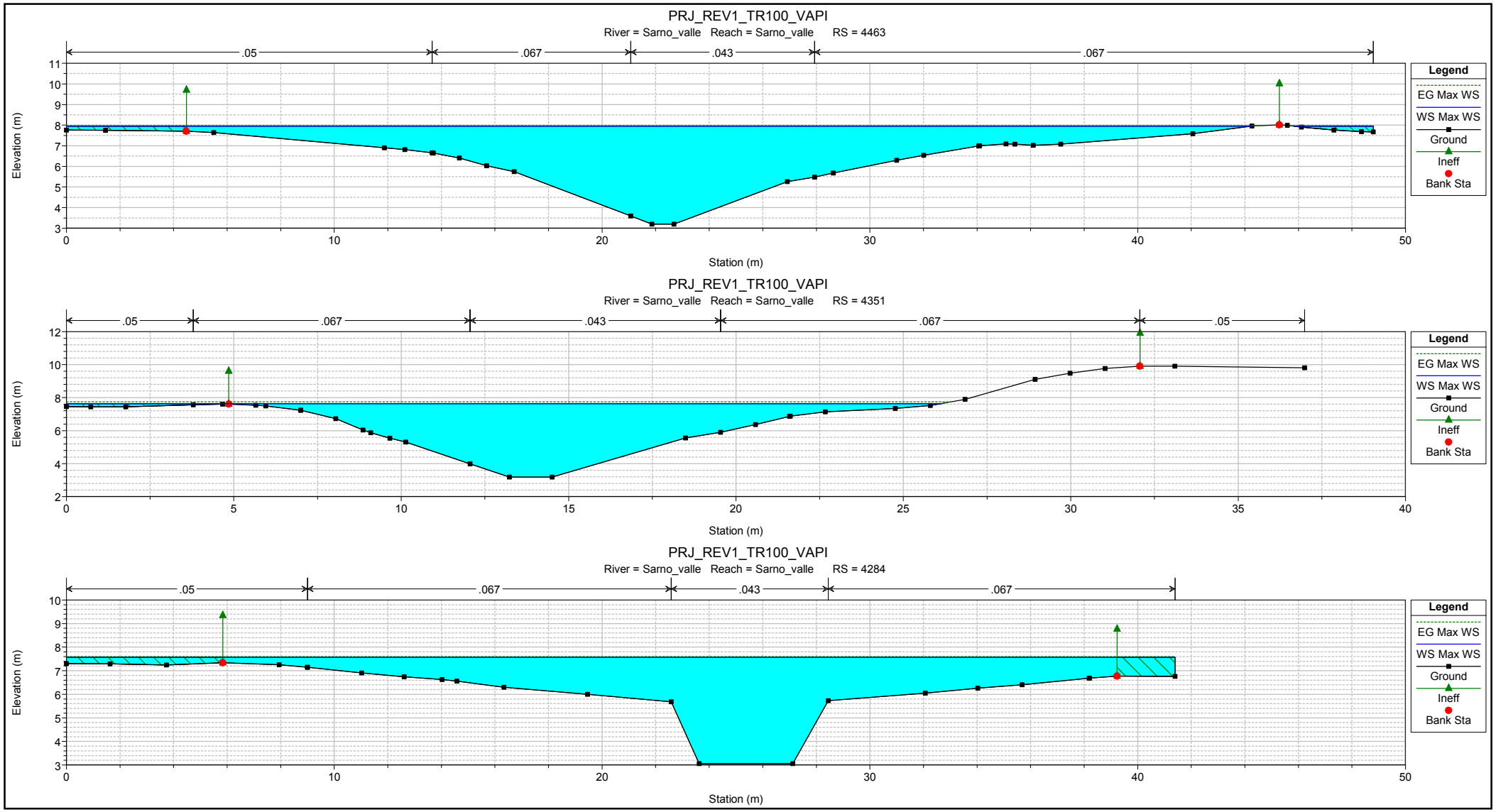

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5137
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5131
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5107
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

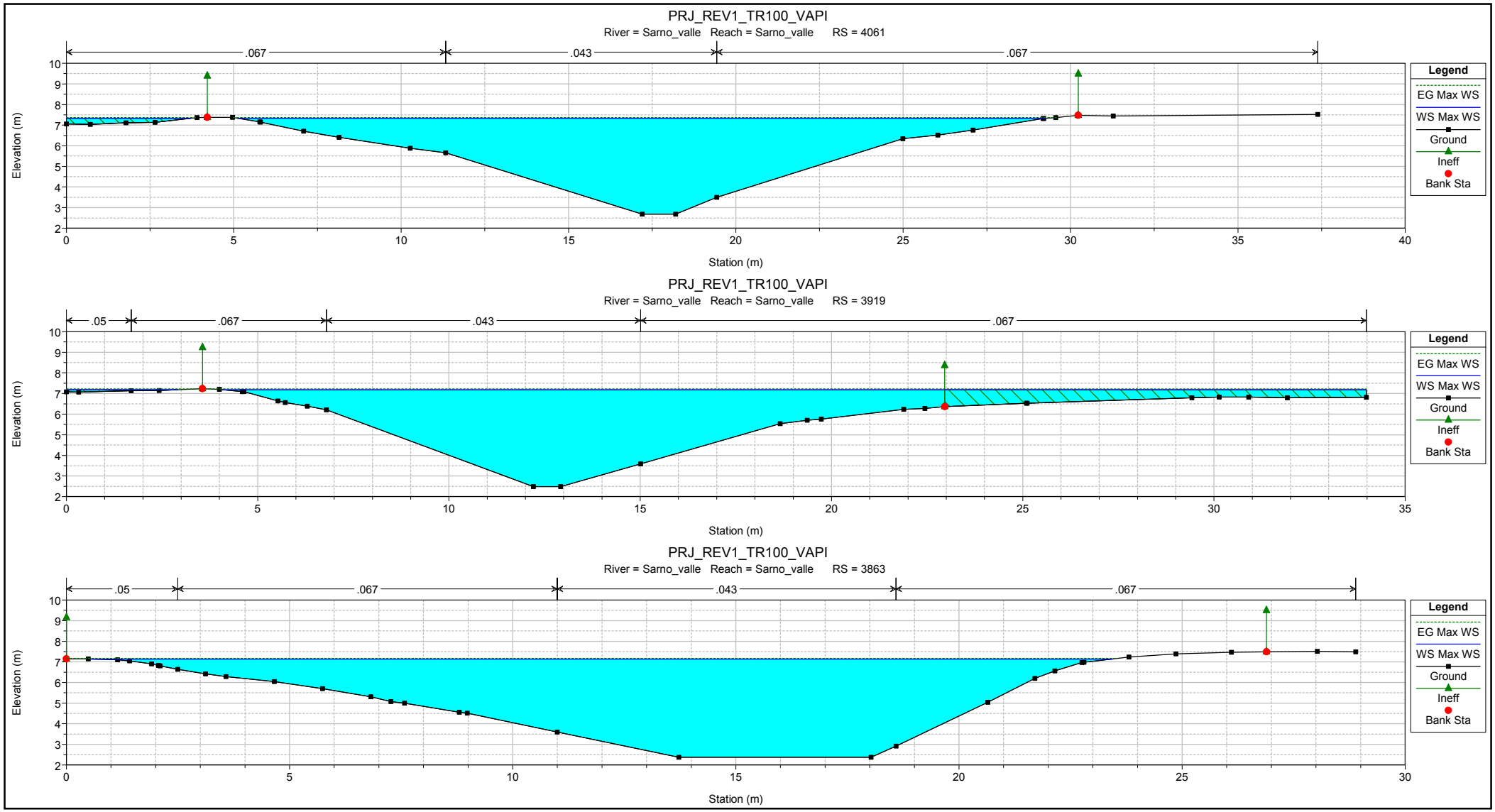

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5074
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5013
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4982
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

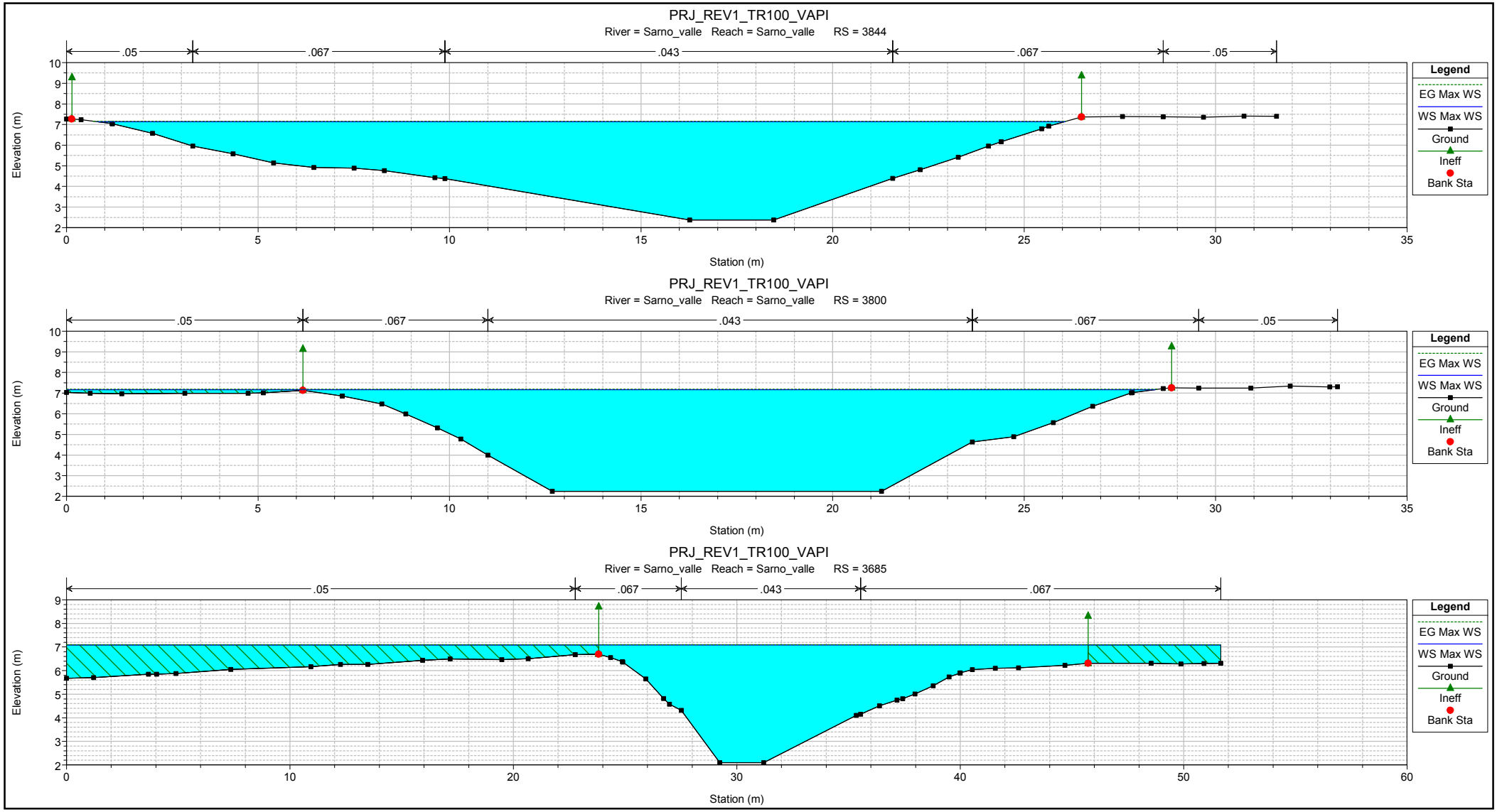

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4928
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4906
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4785
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

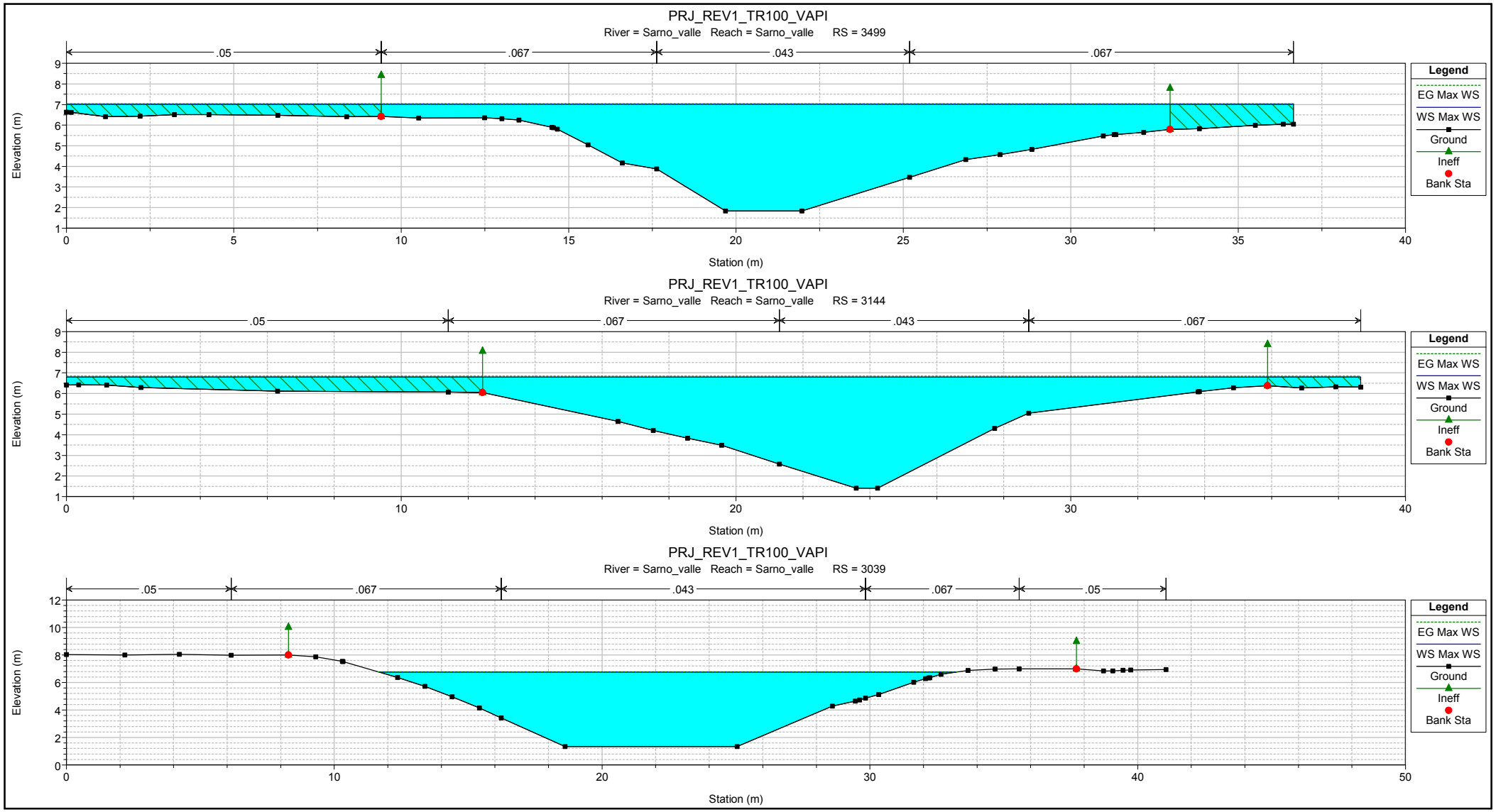

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4706
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4661
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4625
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

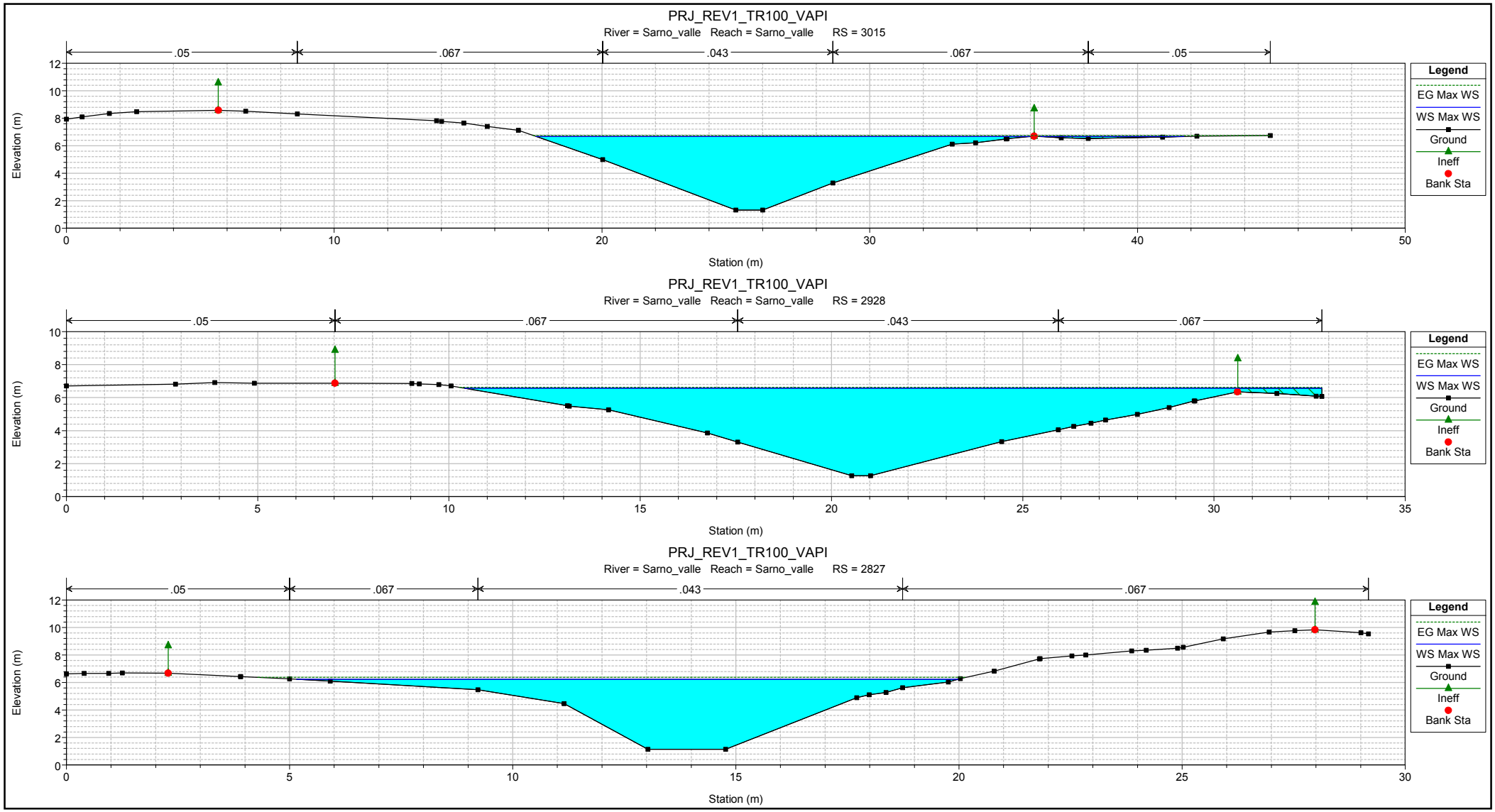

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4603
.05
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4568
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4531
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

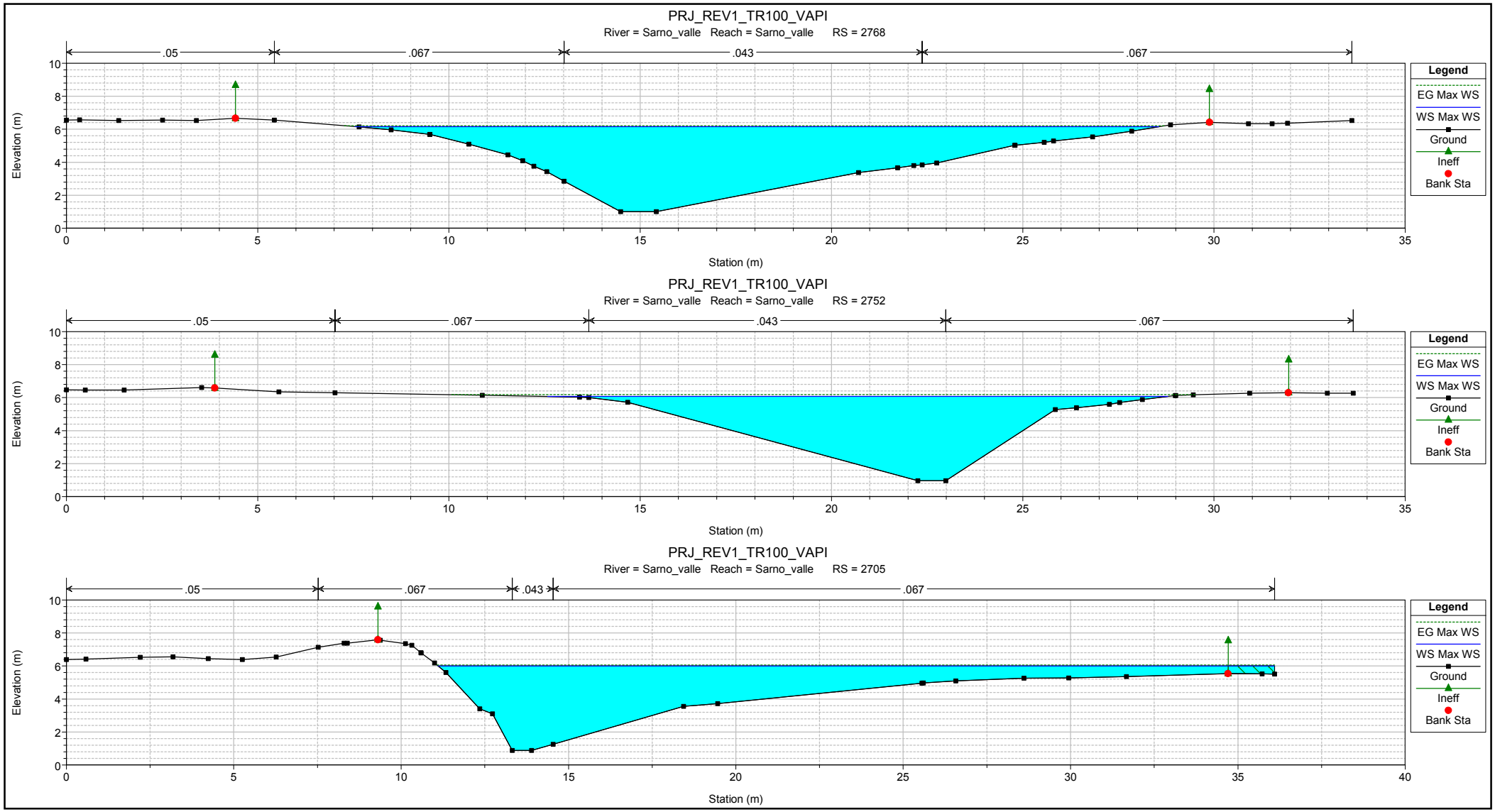

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4463
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4284
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

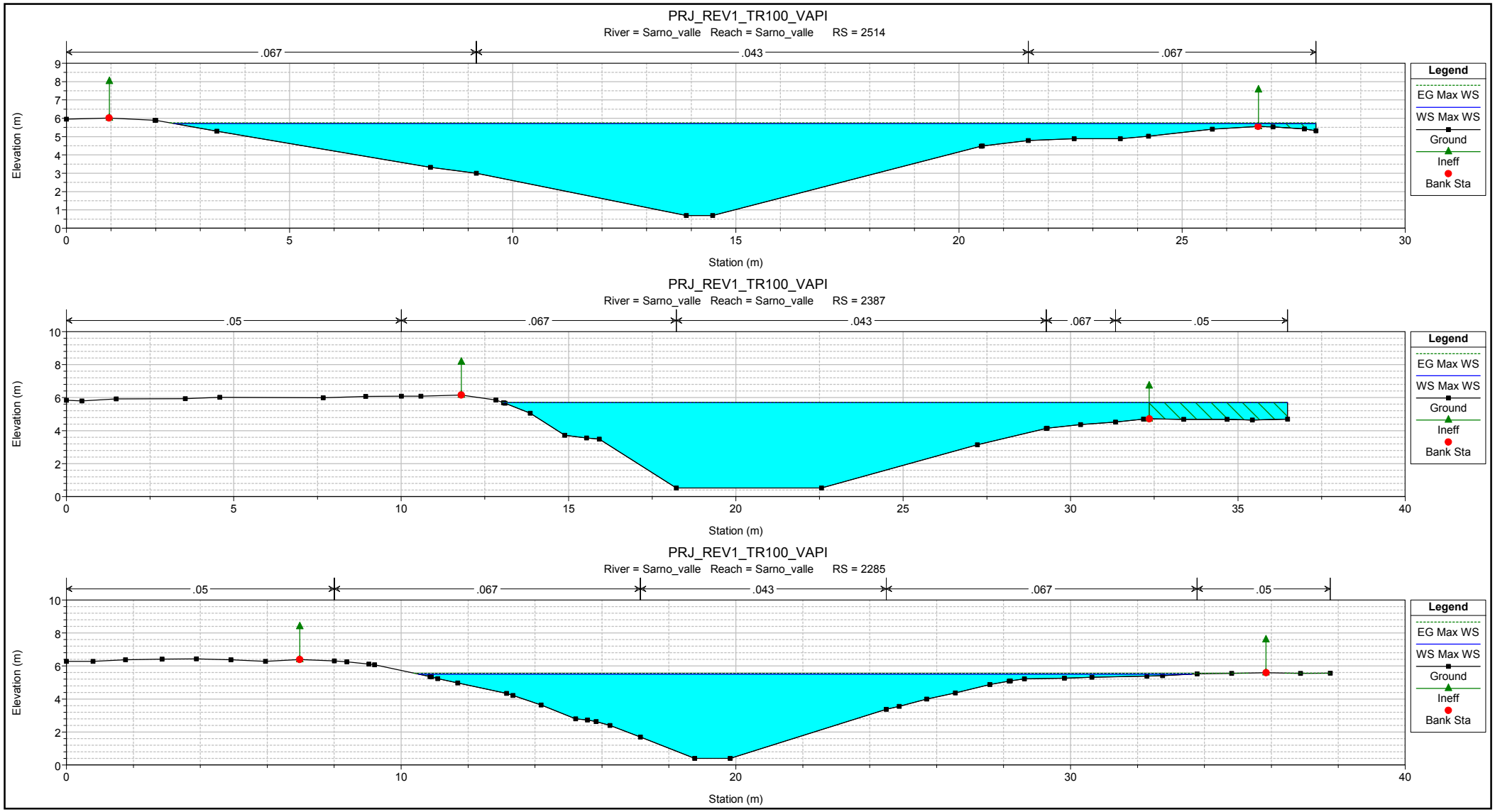

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4061
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3919
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3863
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

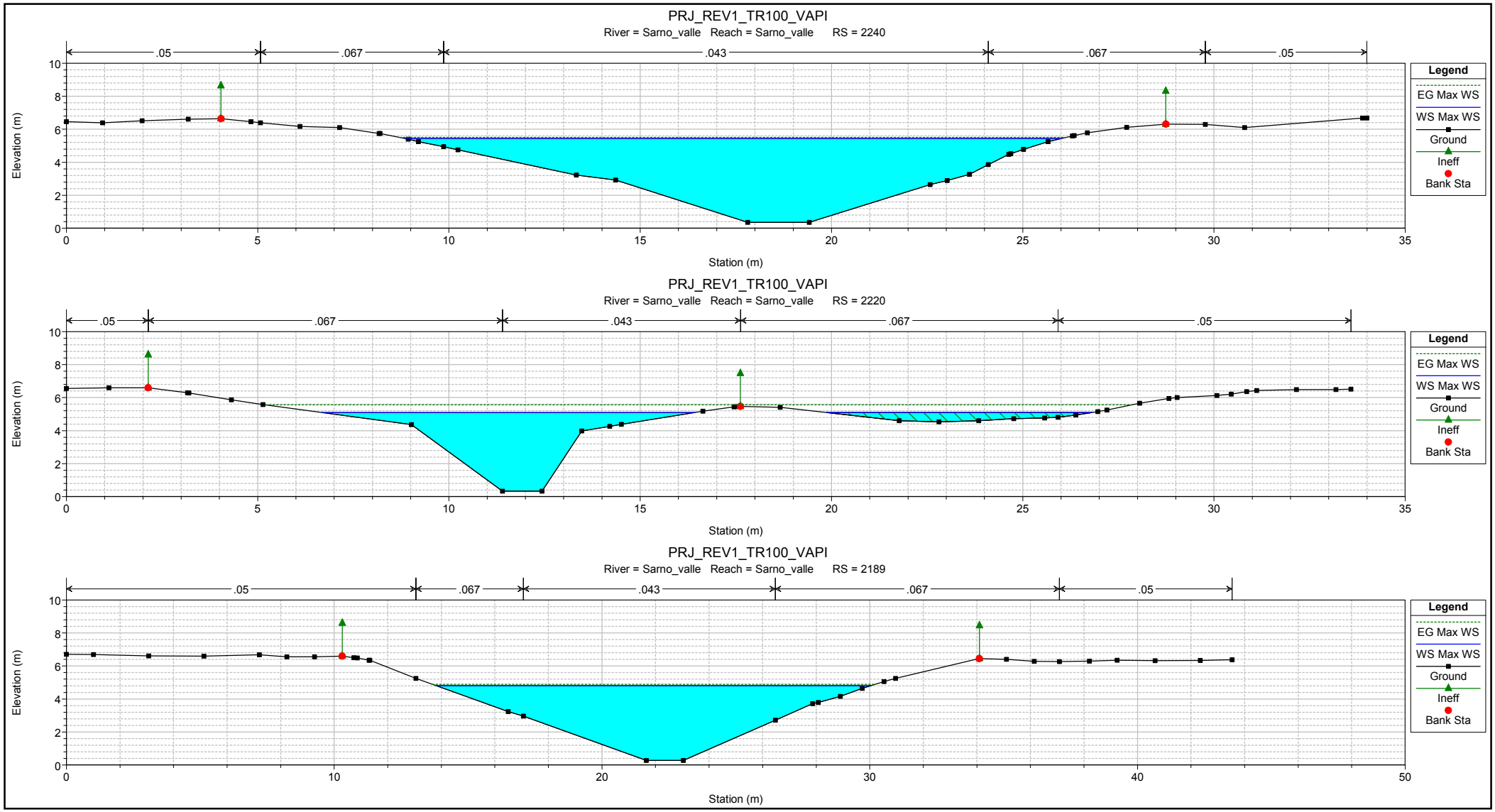

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3844
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3800
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3685
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

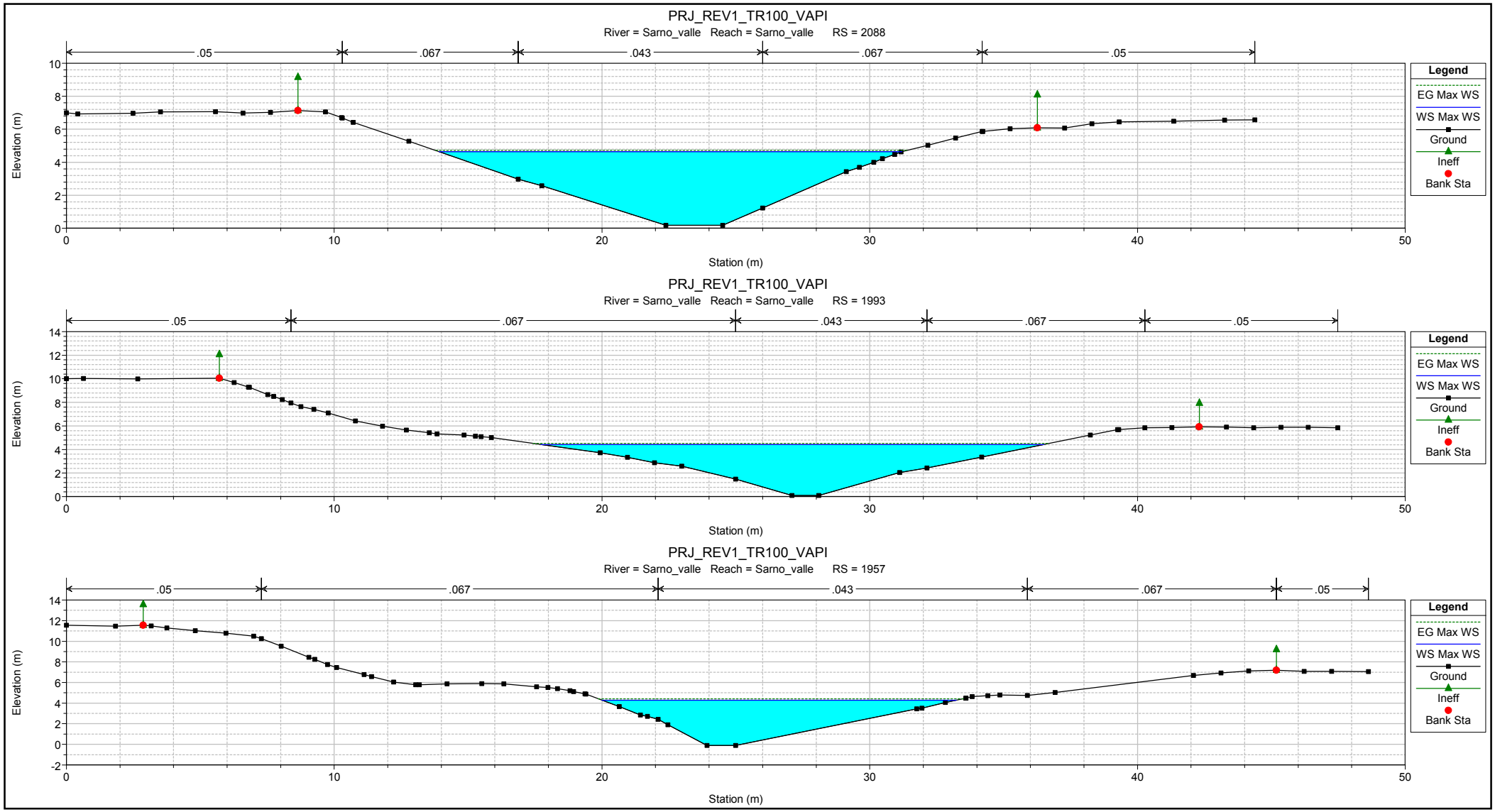

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3499
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3144
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3039
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

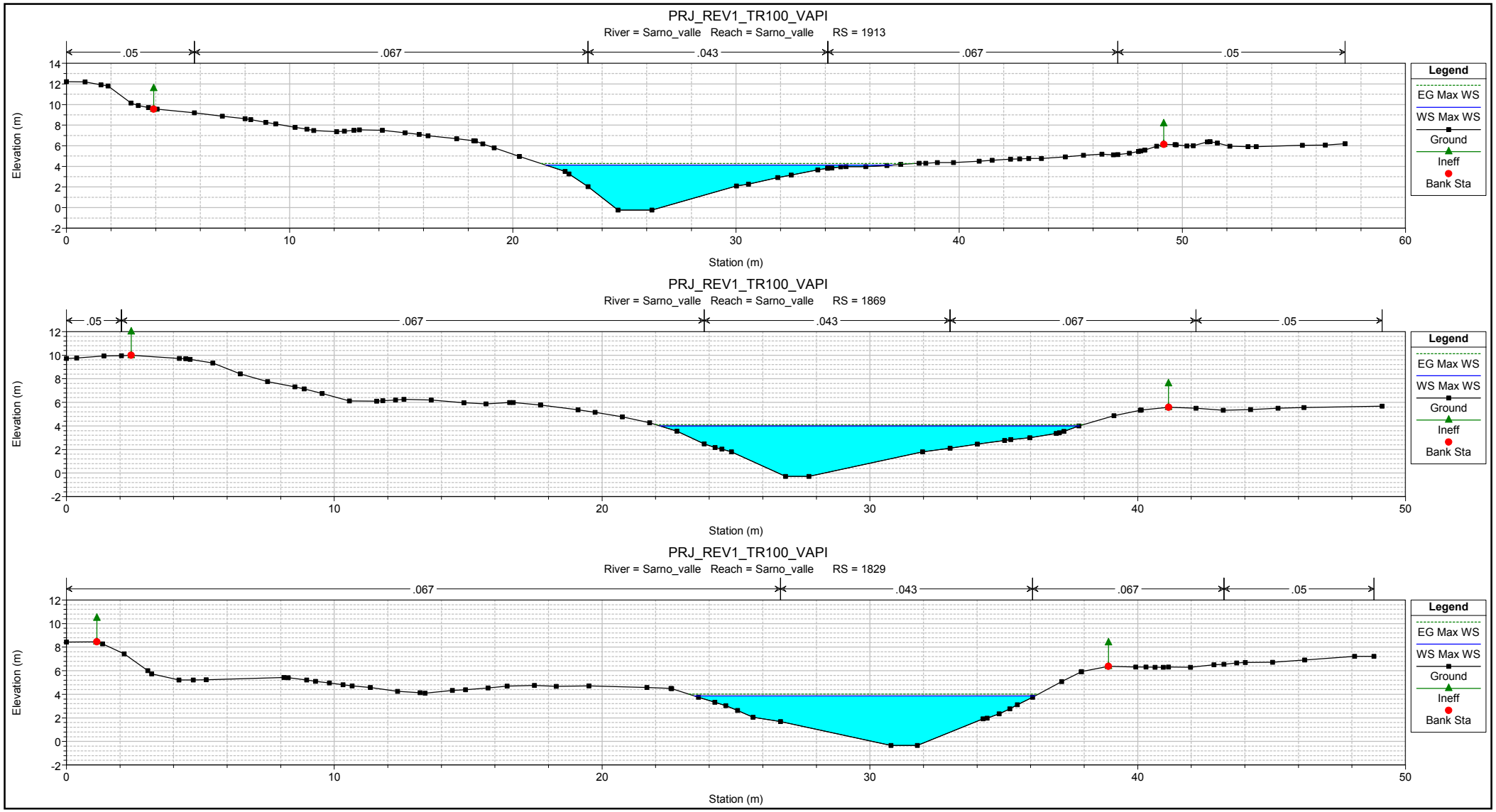

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3015
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2928
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2827
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

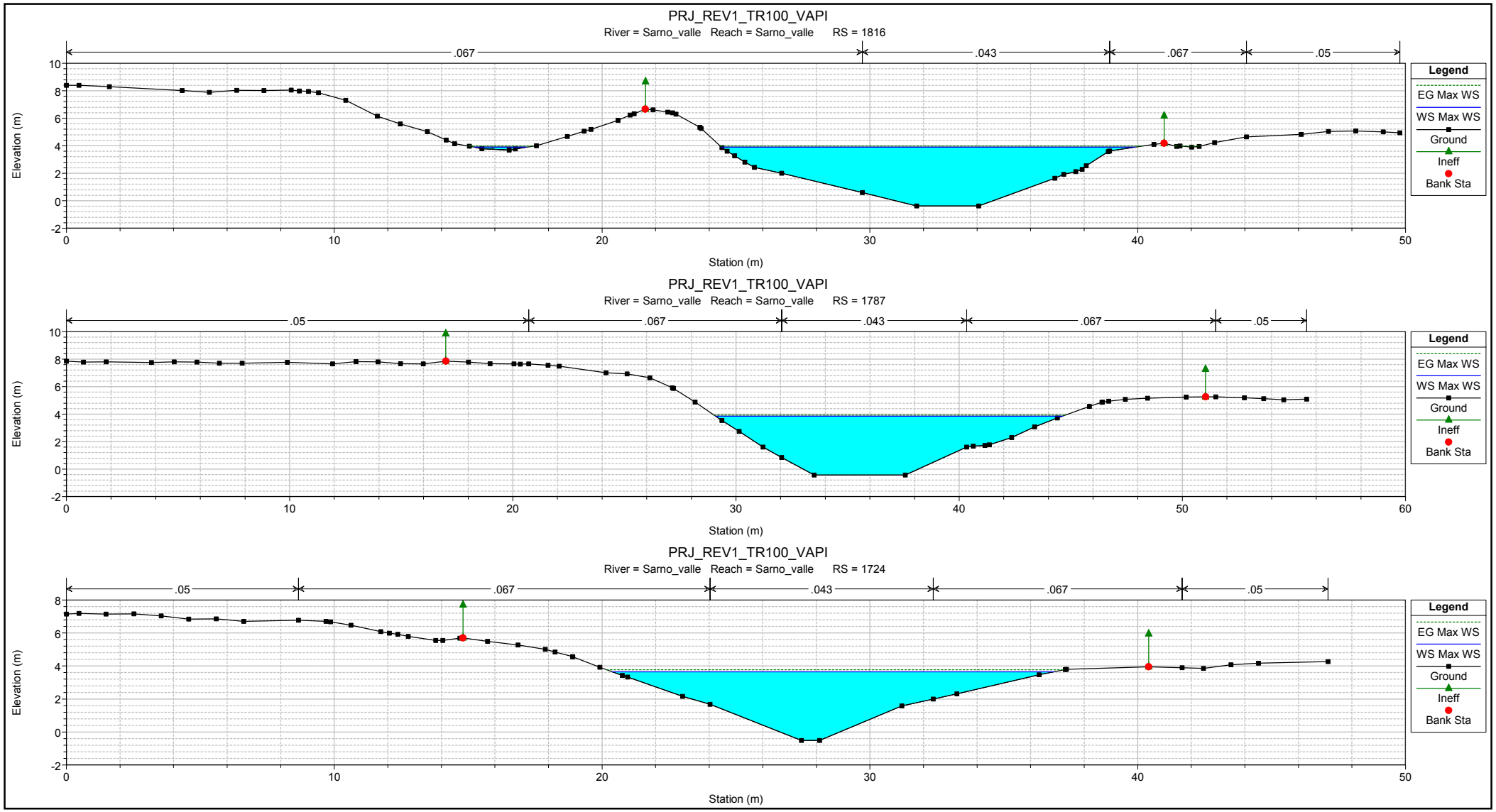

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2768
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2752
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2705
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

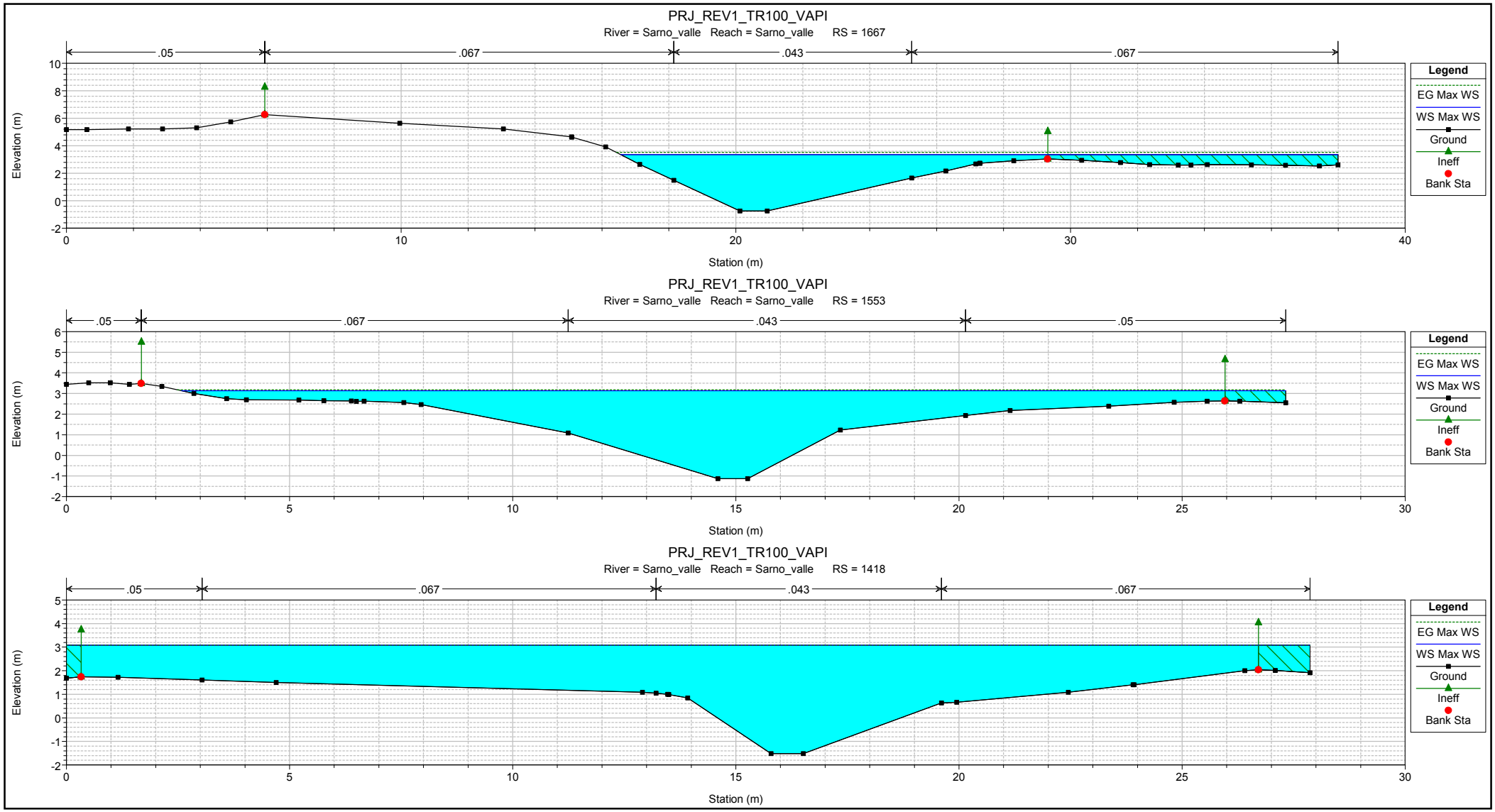

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2514
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2387
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2285
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

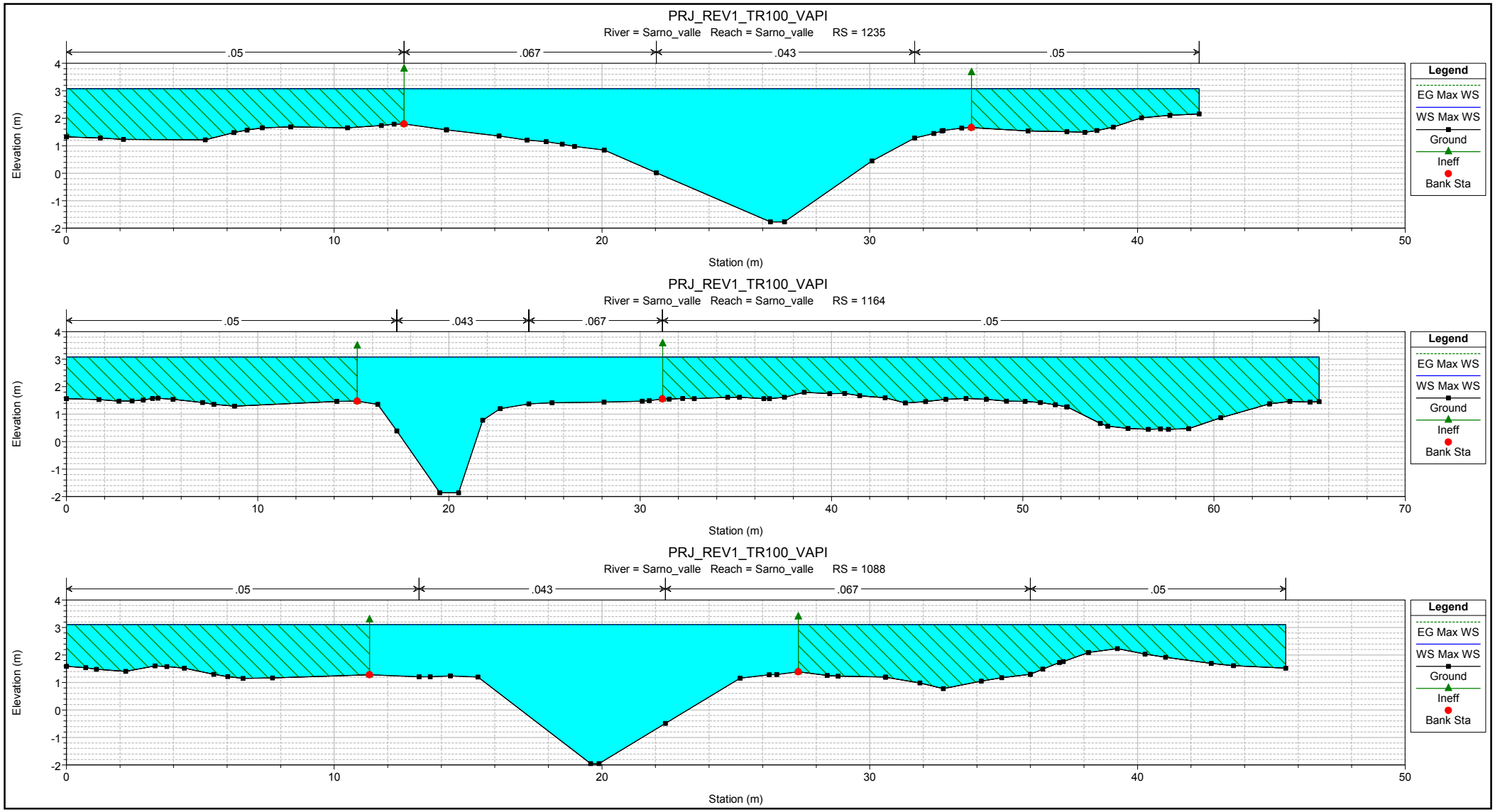

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2240
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2189
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

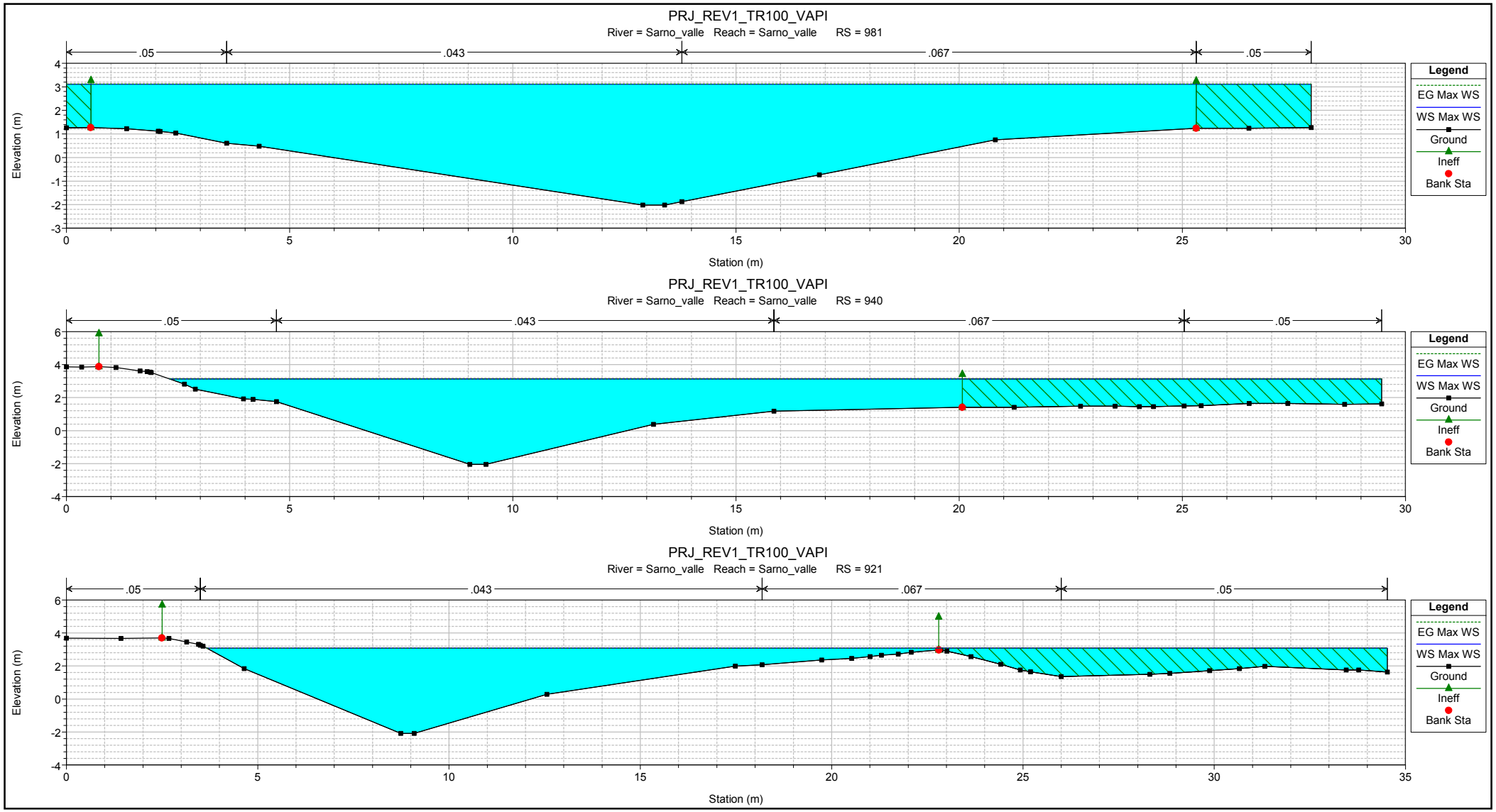

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2088
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1993
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1957
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

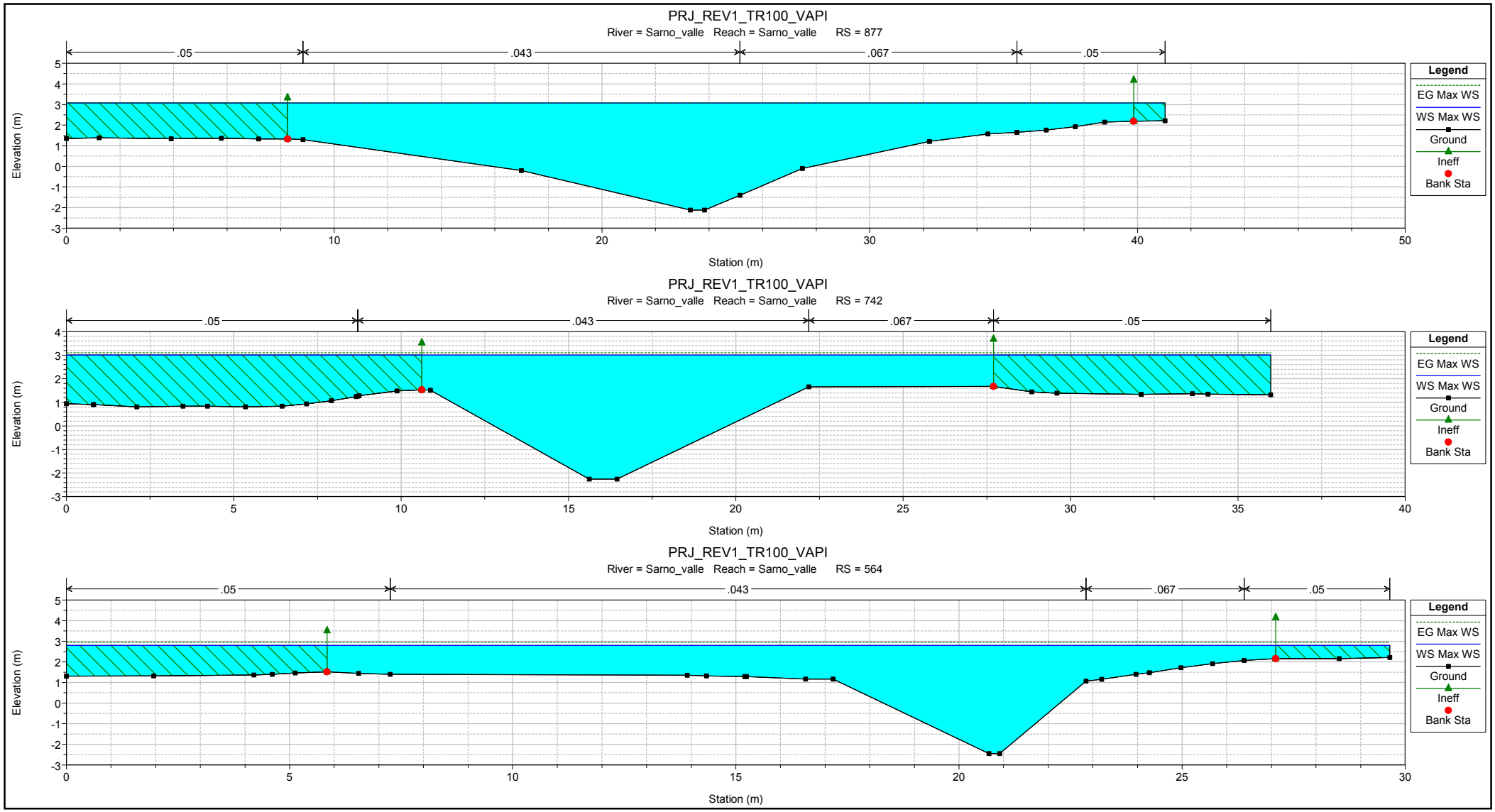

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1913
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1869
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1829
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

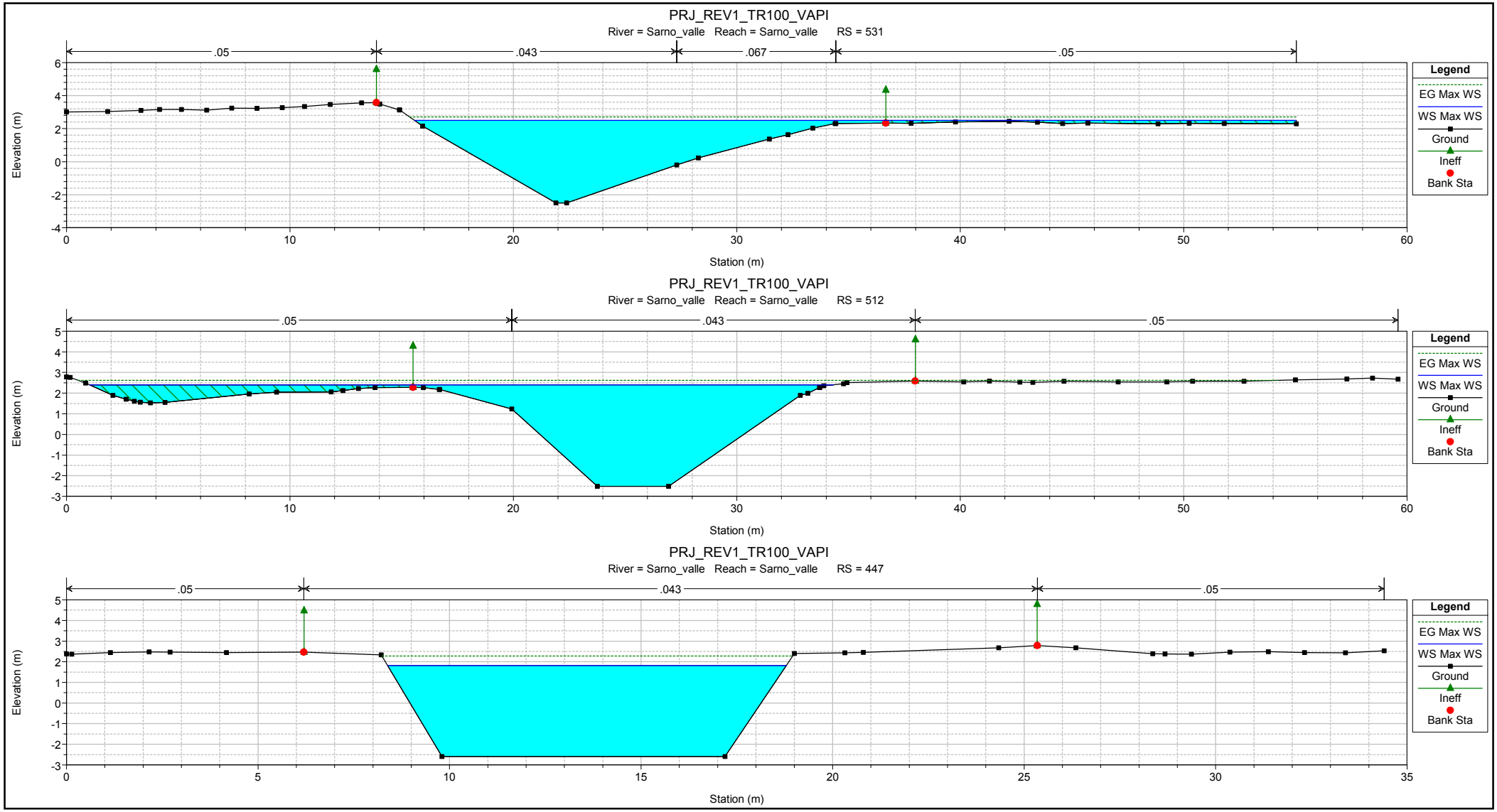

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1816
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1787
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1724
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

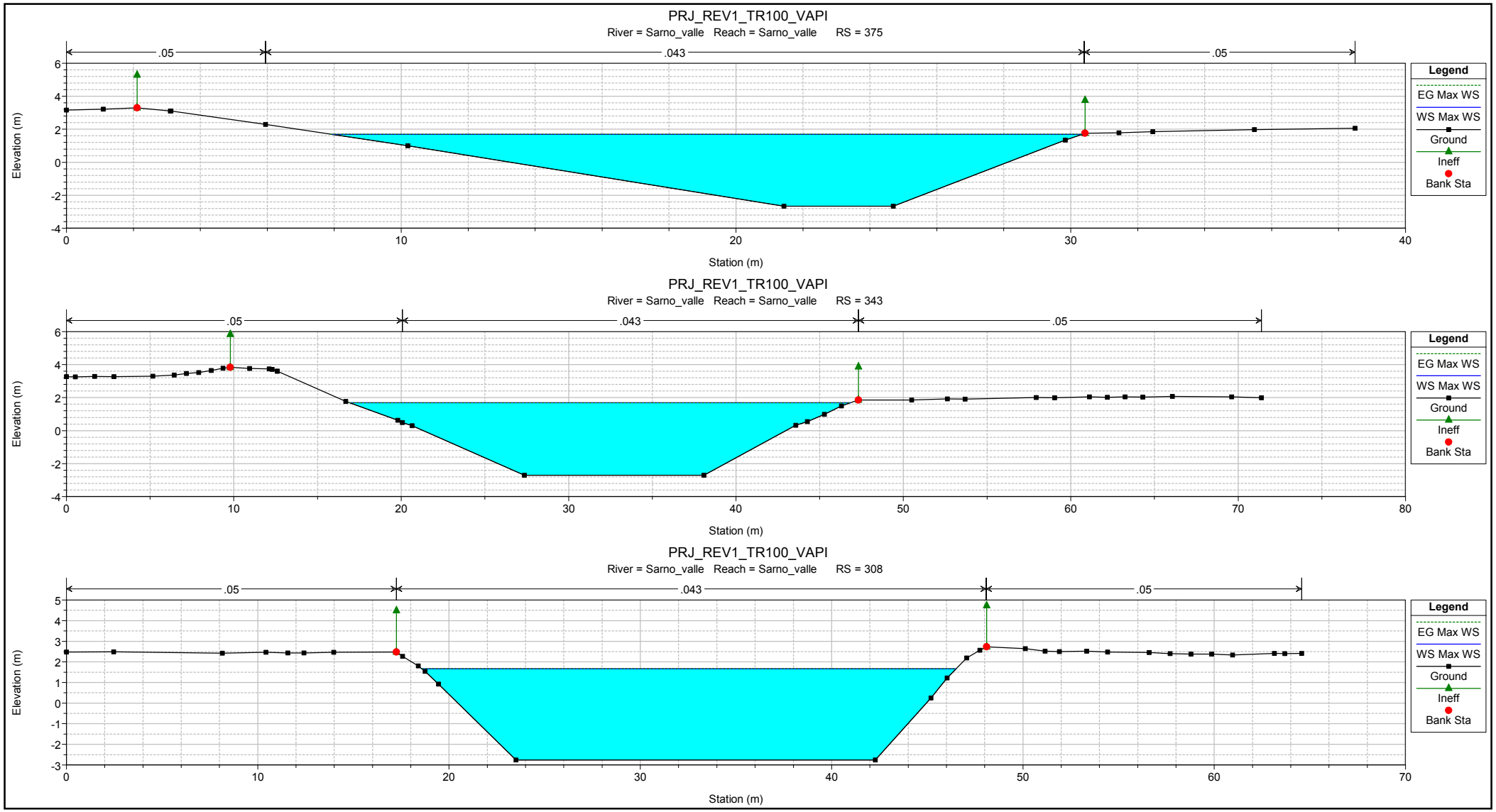

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1667
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1553
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1418
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

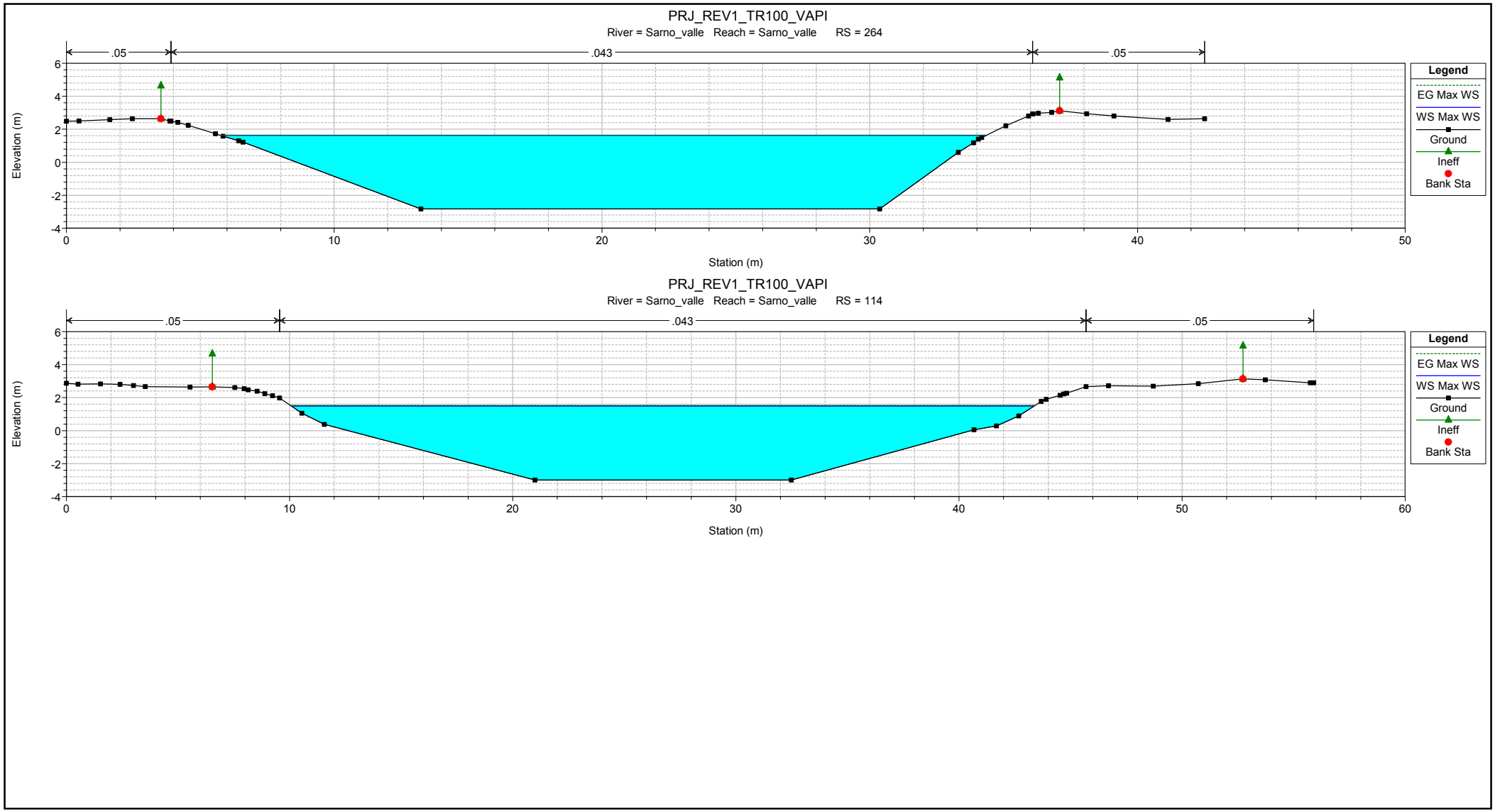

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1235
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1164
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1088
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 981
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 940
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 921
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

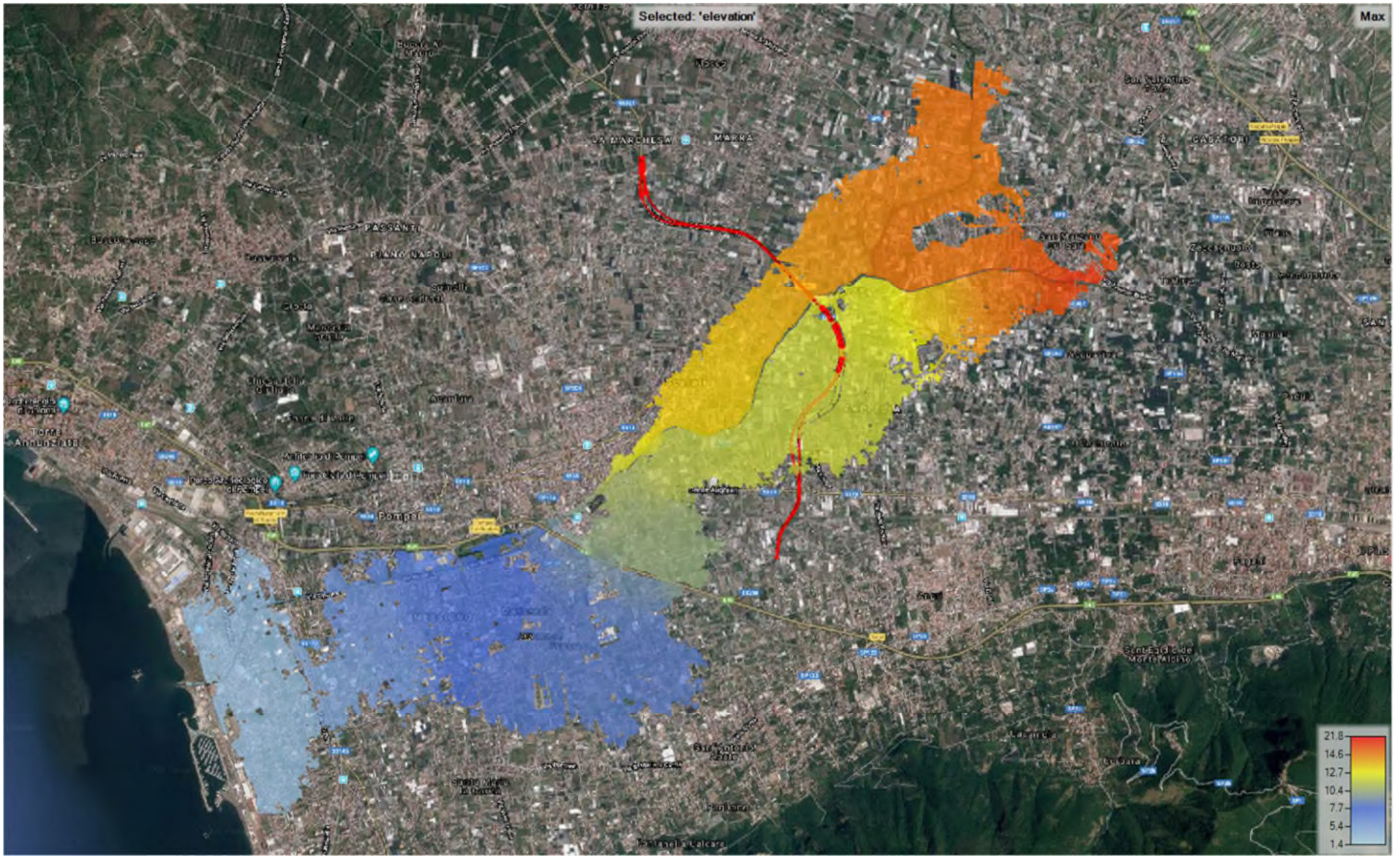

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 877
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 742
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 564
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 531
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 512
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 447
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

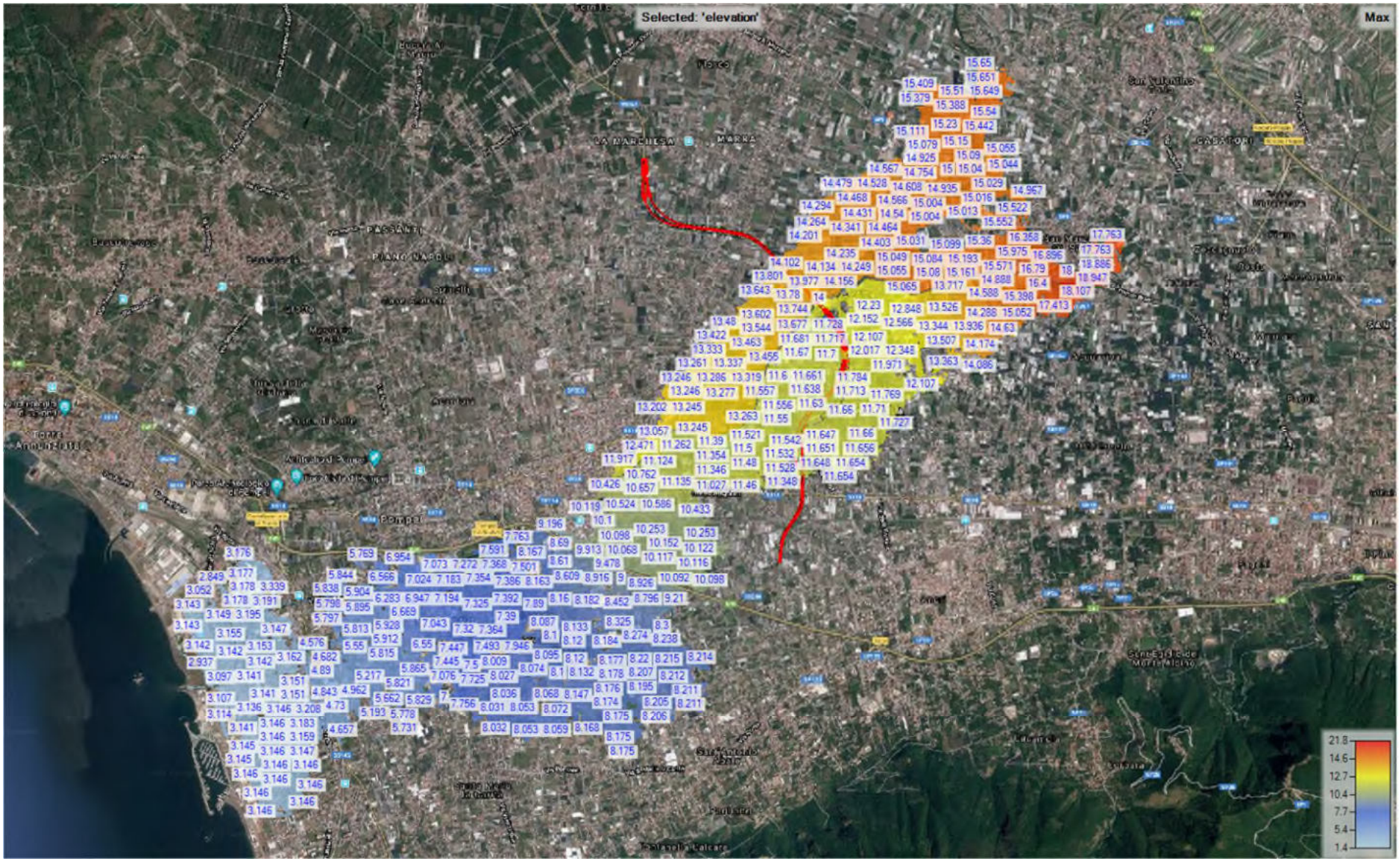

PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 375
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 343
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 308
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 264
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR100_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 114
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

2.2.3. Configurazione di progetto Evento TR 200 anni



Inviluppo dei massimi livelli idrici



Inviluppo dei massimi livelli idrici (visualizzazione numerica del livello massimo)

HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	10158	Max WS	12.76	10.79	4.11	14.90	0.04	14.90	0.19	2.52
Sarno_valle	Sarno_valle	10156		Lat Struct							
Sarno_valle	Sarno_valle	10155		Lat Struct							
Sarno_valle	Sarno_valle	10050	Max WS	11.49	10.75	3.59	14.34	0.10	14.34	0.42	1.91
Sarno_valle	Sarno_valle	9965	Max WS	11.13	10.71	3.22	13.93	0.17	13.95	0.68	1.62
Sarno_valle	Sarno_valle	9887	Max WS	10.97	10.68	3.22	13.90	0.08	13.91	0.37	1.93
Sarno_valle	Sarno_valle	9824	Max WS	10.95	10.57	3.32	13.88	0.11	13.89	0.44	1.74
Sarno_valle	Sarno_valle	9751	Max WS	10.93	10.43	3.43	13.86	0.10	13.87	0.43	1.77
Sarno_valle	Sarno_valle	9629	Max WS	10.93	10.36	3.46	13.82	0.11	13.83	0.44	1.69
Sarno_valle	Sarno_valle	9518	Max WS	10.92	10.30	3.50	13.80	0.08	13.80	0.35	1.95
Sarno_valle	Sarno_valle	9435	Max WS	10.91	10.22	3.53	13.75	0.14	13.77	0.62	1.87
Sarno_valle	Sarno_valle	9396	Max WS	10.89	10.18	3.56	13.74	0.11	13.75	0.44	1.73
Sarno_valle	Sarno_valle	9363	Max WS	10.87	10.14	3.58	13.72	0.15	13.74	0.62	1.86
Sarno_valle	Sarno_valle	9318	Max WS	10.83	10.10	3.59	13.69	0.15	13.71	0.60	1.55
Sarno_valle	Sarno_valle	9130	Max WS	10.49	9.90	3.73	13.63	0.07	13.63	0.29	1.96
Sarno_valle	Sarno_valle	8979	Max WS	10.23	9.75	3.84	13.59	0.11	13.60	0.45	1.83
Sarno_valle	Sarno_valle	8789	Max WS	8.73	9.60	3.95	13.55	0.06	13.56	0.27	1.93
Sarno_valle	Sarno_valle	8648	Max WS	11.97	9.45	4.06	13.51	0.10	13.52	0.44	1.90
Sarno_valle	Sarno_valle	8574	Max WS	18.29	9.37	4.10	13.47	0.12	13.49	0.49	1.62
Sarno_valle	Sarno_valle	8311	Max WS	29.62	9.25	4.08	13.33	0.14	13.35	0.63	2.01
Sarno_valle	Sarno_valle	8123	Max WS	30.35	9.08	4.14	13.22	0.14	13.24	0.65	2.33
Sarno_valle	Sarno_valle	7939	Max WS	19.19	8.98	4.19	13.17	0.10	13.18	0.47	2.18
Sarno_valle	Sarno_valle	7710	Max WS	-12.96	8.80	4.36	13.16	0.06	13.16	-0.26	2.14
Sarno_valle	Sarno_valle	7544	Max WS	-18.62	8.63	4.55	13.18	0.08	13.18	-0.35	2.01
Sarno_valle	Sarno_valle	7437	Max WS	0.34	8.41	4.79	13.20	0.00	13.20	0.01	2.32
Sarno_valle	Sarno_valle	7410	Max WS	16.57	8.41	4.78	13.19	0.06	13.19	0.32	2.41
Sarno_valle	Sarno_valle	7388	Max WS	32.94	8.40	4.75	13.15	0.13	13.17	0.63	2.38
Sarno_valle	Sarno_valle	7351	Max WS	49.62	8.37	4.68	13.05	0.24	13.10	1.01	1.85
Sarno_valle	Sarno_valle	7310	Max WS	45.19	8.32	4.67	12.99	0.22	13.05	1.05	2.29
Sarno_valle	Sarno_valle	7220	Max WS	18.39	8.21	4.81	13.02	0.09	13.02	0.42	2.17
Sarno_valle	Sarno_valle	7143	Max WS	-2.70	8.20	4.82	13.02	0.01	13.02	-0.06	1.74
Sarno_valle	Sarno_valle	7121	Max WS	-3.23	8.20	4.82	13.02	0.02	13.02	-0.07	2.13

HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	7042	Max WS	-17.95	8.18	4.84	13.02	0.07	13.02	-0.34	2.46
Sarno_valle	Sarno_valle	6896	Max WS	-22.36	8.10	4.94	13.04	0.08	13.05	-0.40	2.52
Sarno_valle	Sarno_valle	6751	Max WS	10.81	8.03	5.03	13.06	0.04	13.06	0.20	2.46
Sarno_valle	Sarno_valle	6575	Max WS	49.67	7.96	4.92	12.88	0.19	12.92	0.85	2.05
Sarno_valle	Sarno_valle	6325	Max WS	61.12	7.86	4.35	12.21	0.27	12.30	1.30	2.32
Sarno_valle	Sarno_valle	6158	Max WS	32.29	7.79	4.29	12.08	0.17	12.12	0.80	2.21
Sarno_valle	Sarno_valle	6097	Max WS	41.12	7.34	4.65	11.99	0.20	12.04	1.00	2.56
Sarno_valle	Sarno_valle	6081	Max WS	57.73	7.26	4.54	11.80	0.33	11.93	1.63	2.48
Sarno_valle	Sarno_valle	6076	Max WS	54.75	7.25	4.57	11.82	0.27	11.91	1.26	2.31
Sarno_valle	Sarno_valle	6049	Max WS	36.62	7.21	4.67	11.88	0.19	11.92	0.89	2.20
Sarno_valle	Sarno_valle	5980	Max WS	64.62	7.09	4.26	11.35	0.51	11.61	2.26	2.04
Sarno_valle	Sarno_valle	5917	Max WS	64.26	6.98	4.19	11.17	0.35	11.31	1.65	2.25
Sarno_valle	Sarno_valle	5881	Max WS	126.00	5.85	5.07	10.92	0.28	11.03	1.46	2.73
Sarno_valle	Sarno_valle	5861	Max WS	169.16	5.84	4.76	10.60	0.39	10.82	2.08	2.88
Sarno_valle	Sarno_valle	5812	Max WS	96.66	5.79	4.88	10.67	0.27	10.78	1.57	2.94
Sarno_valle	Sarno_valle	5744	Max WS	72.52	5.71	4.99	10.70	0.25	10.81	1.42	3.20
Sarno_valle	Sarno_valle	5662	Max WS	60.79	5.59	4.99	10.58	0.29	10.69	1.43	2.47
Sarno_valle	Sarno_valle	5604	Max WS	49.55	5.54	4.47	10.01	0.59	10.36	2.65	2.07
Sarno_valle	Sarno_valle	5552	Max WS	46.91	5.35	4.51	9.86	0.29	9.96	1.42	2.47
Sarno_valle	Sarno_valle	5478	Max WS	46.97	5.26	4.50	9.76	0.16	9.79	0.76	2.23
Sarno_valle	Sarno_valle	5415	Max WS	41.84	4.41	5.43	9.84	0.10	9.86	0.58	2.95
Sarno_valle	Sarno_valle	5359	Max WS	113.26	4.40	5.33	9.73	0.24	9.82	1.36	2.87
Sarno_valle	Sarno_valle	5279	Max WS	65.73	4.31	5.38	9.69	0.15	9.72	0.81	2.98
Sarno_valle	Sarno_valle	5251	Max WS	76.37	4.29	5.18	9.47	0.37	9.61	1.66	2.09
Sarno_valle	Sarno_valle	5222	Max WS	70.21	4.21	5.20	9.41	0.21	9.48	1.18	3.35
Sarno_valle	Sarno_valle	5206	Max WS	68.61	4.14	5.26	9.40	0.19	9.45	0.99	2.82
Sarno_valle	Sarno_valle	5199	Max WS	67.83	4.13	5.23	9.36	0.25	9.44	1.23	2.39
Sarno_valle	Sarno_valle	5145	Max WS	61.11	4.11	5.25	9.36	0.15	9.40	0.86	3.23
Sarno_valle	Sarno_valle	5137	Max WS	59.96	4.10	5.24	9.34	0.23	9.41	1.11	2.47
Sarno_valle	Sarno_valle	5131	Max WS	65.17	4.09	5.12	9.21	0.46	9.38	1.82	1.62
Sarno_valle	Sarno_valle	5107	Max WS	41.60	4.07	5.11	9.18	0.12	9.20	0.63	2.62
Sarno_valle	Sarno_valle	5074	Max WS	42.22	4.05	5.19	9.24	0.16	9.27	0.79	2.43

HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	5013	Max WS	51.19	4.01	5.13	9.14	0.19	9.19	0.93	2.37
Sarno_valle	Sarno_valle	4982	Max WS	69.49	3.99	5.06	9.05	0.19	9.09	0.99	2.75
Sarno_valle	Sarno_valle	4928	Max WS	94.06	3.87	4.68	8.55	0.51	8.83	2.33	2.16
Sarno_valle	Sarno_valle	4906	Max WS	95.89	3.74	4.67	8.41	0.46	8.64	2.10	2.13
Sarno_valle	Sarno_valle	4785	Max WS	30.18	3.44	4.89	8.33	0.11	8.34	0.53	2.36
Sarno_valle	Sarno_valle	4706	Max WS	47.35	3.38	4.82	8.20	0.19	8.24	0.88	2.29
Sarno_valle	Sarno_valle	4661	Max WS	55.53	3.38	4.78	8.16	0.19	8.20	0.86	2.14
Sarno_valle	Sarno_valle	4625	Max WS	61.92	3.28	4.79	8.07	0.23	8.14	1.11	2.38
Sarno_valle	Sarno_valle	4603	Max WS	58.30	3.27	4.83	8.10	0.17	8.13	0.79	2.11
Sarno_valle	Sarno_valle	4568	Max WS	60.44	3.25	4.85	8.10	0.15	8.13	0.78	2.79
Sarno_valle	Sarno_valle	4531	Max WS	50.01	3.22	4.91	8.13	0.11	8.15	0.60	2.74
Sarno_valle	Sarno_valle	4463	Max WS	58.21	3.20	4.84	8.04	0.19	8.07	0.81	1.77
Sarno_valle	Sarno_valle	4351	Max WS	60.42	3.18	4.52	7.70	0.33	7.80	1.46	1.93
Sarno_valle	Sarno_valle	4284	Max WS	46.73	3.06	4.57	7.63	0.20	7.66	0.83	1.69
Sarno_valle	Sarno_valle	4061	Max WS	42.61	2.68	4.73	7.41	0.19	7.45	0.82	2.02
Sarno_valle	Sarno_valle	3919	Max WS	39.30	2.48	4.80	7.28	0.18	7.31	0.87	2.33
Sarno_valle	Sarno_valle	3863	Max WS	44.37	2.38	4.85	7.23	0.14	7.26	0.72	2.59
Sarno_valle	Sarno_valle	3844	Max WS	42.80	2.37	4.86	7.23	0.12	7.25	0.61	2.70
Sarno_valle	Sarno_valle	3800	Max WS	36.16	2.24	5.02	7.26	0.09	7.28	0.50	3.19
Sarno_valle	Sarno_valle	3685	Max WS	28.63	2.10	5.09	7.19	0.10	7.20	0.51	2.55
Sarno_valle	Sarno_valle	3499	Max WS	41.11	1.84	5.27	7.11	0.12	7.13	0.64	2.73
Sarno_valle	Sarno_valle	3144	Max WS	54.44	1.41	5.49	6.90	0.18	6.94	0.89	2.60
Sarno_valle	Sarno_valle	3039	Max WS	64.50	1.34	5.50	6.84	0.15	6.88	0.87	3.35
Sarno_valle	Sarno_valle	3015	Max WS	62.31	1.32	5.43	6.75	0.26	6.84	1.32	2.53
Sarno_valle	Sarno_valle	2928	Max WS	53.48	1.27	5.39	6.66	0.20	6.71	1.01	2.59
Sarno_valle	Sarno_valle	2827	Max WS	51.47	1.14	5.20	6.34	0.36	6.47	1.62	2.03
Sarno_valle	Sarno_valle	2768	Max WS	51.24	1.00	5.26	6.26	0.21	6.31	1.00	2.35
Sarno_valle	Sarno_valle	2752	Max WS	51.17	0.96	5.22	6.18	0.33	6.28	1.41	1.86
Sarno_valle	Sarno_valle	2705	Max WS	44.25	0.88	5.24	6.12	0.21	6.17	0.94	1.99
Sarno_valle	Sarno_valle	2514	Max WS	49.26	0.70	5.16	5.86	0.18	5.90	0.86	2.33
Sarno_valle	Sarno_valle	2387	Max WS	18.61	0.52	5.34	5.86	0.05	5.87	0.29	3.28
Sarno_valle	Sarno_valle	2285	Max WS	55.83	0.40	5.26	5.66	0.25	5.72	1.11	1.97

HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS (Continued)

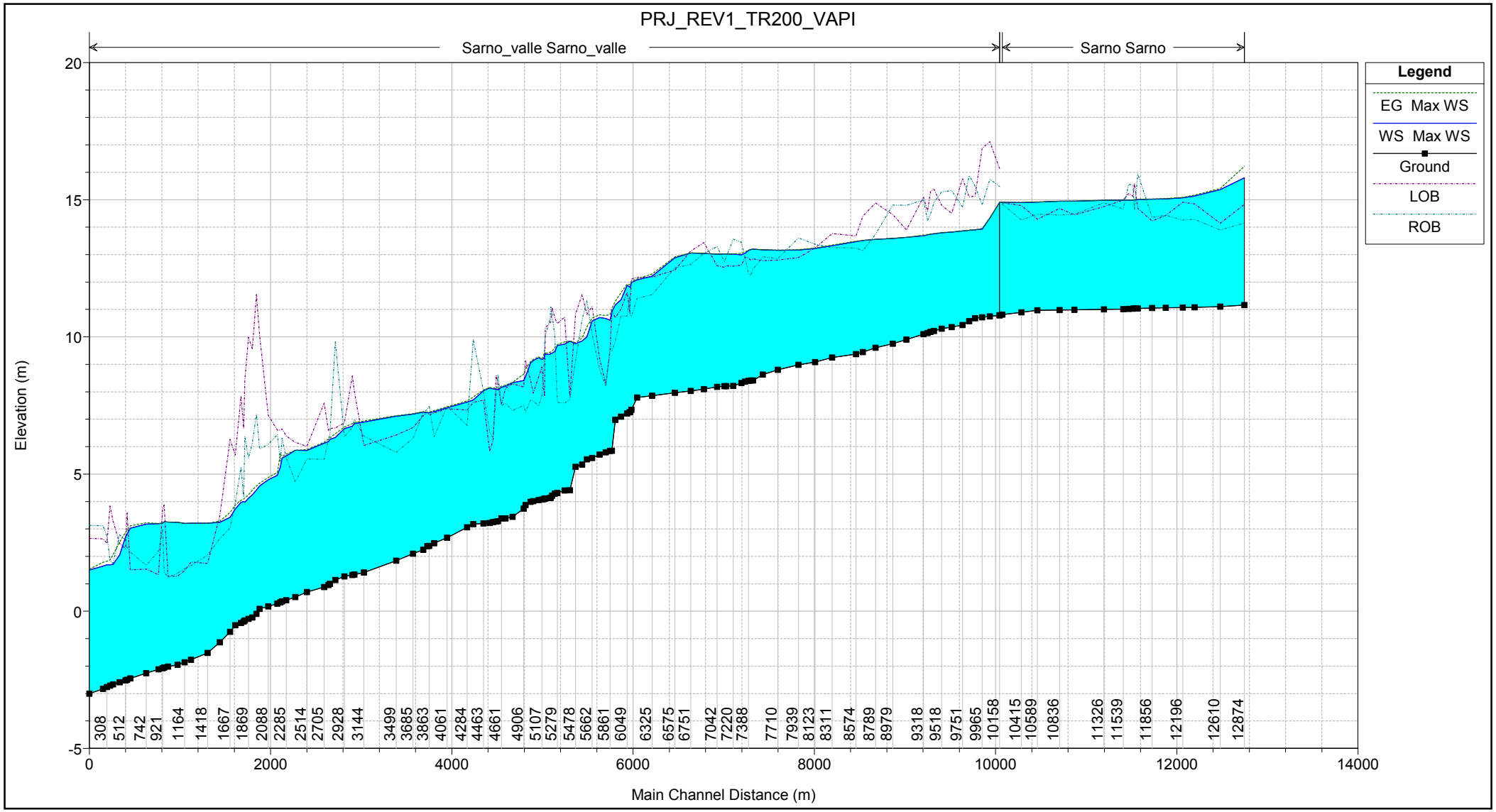
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	2240	Max WS	56.36	0.36	5.22	5.58	0.22	5.65	1.16	2.73
Sarno_valle	Sarno_valle	2220	Max WS	56.36	0.33	4.92	5.25	0.73	5.72	3.03	1.74
Sarno_valle	Sarno_valle	2189	Max WS	56.35	0.28	4.68	4.96	0.28	5.05	1.36	2.46
Sarno_valle	Sarno_valle	2088	Max WS	56.35	0.18	4.61	4.79	0.25	4.87	1.23	2.55
Sarno_valle	Sarno_valle	1993	Max WS	56.35	0.09	4.48	4.57	0.30	4.66	1.37	2.10
Sarno_valle	Sarno_valle	1957	Max WS	56.35	-0.10	4.52	4.42	0.36	4.57	1.73	2.39
Sarno_valle	Sarno_valle	1913	Max WS	56.35	-0.23	4.48	4.25	0.41	4.41	1.77	1.92
Sarno_valle	Sarno_valle	1869	Max WS	56.34	-0.28	4.40	4.12	0.33	4.24	1.55	2.28
Sarno_valle	Sarno_valle	1829	Max WS	56.34	-0.34	4.31	3.97	0.35	4.13	1.75	2.48
Sarno_valle	Sarno_valle	1816	Max WS	56.33	-0.38	4.38	4.00	0.26	4.09	1.34	2.65
Sarno_valle	Sarno_valle	1787	Max WS	56.20	-0.43	4.39	3.96	0.25	4.04	1.29	2.76
Sarno_valle	Sarno_valle	1724	Max WS	55.66	-0.51	4.24	3.73	0.37	3.87	1.64	2.01
Sarno_valle	Sarno_valle	1667	Max WS	49.96	-0.75	4.18	3.43	0.39	3.60	1.81	2.15
Sarno_valle	Sarno_valle	1553	Max WS	33.79	-1.13	4.37	3.24	0.22	3.28	0.89	1.61
Sarno_valle	Sarno_valle	1418	Max WS	7.02	-1.52	4.73	3.21	0.02	3.21	0.12	2.27
Sarno_valle	Sarno_valle	1235	Max WS	13.19	-1.77	4.98	3.21	0.04	3.21	0.22	2.81
Sarno_valle	Sarno_valle	1164	Max WS	7.64	-1.86	5.06	3.20	0.04	3.21	0.19	2.51
Sarno_valle	Sarno_valle	1088	Max WS	-2.91	-1.95	5.19	3.24	0.01	3.24	-0.06	3.03
Sarno_valle	Sarno_valle	981	Max WS	-12.00	-2.02	5.27	3.25	0.02	3.25	-0.14	3.42
Sarno_valle	Sarno_valle	940	Max WS	11.48	-2.05	5.31	3.26	0.04	3.26	0.23	2.76
Sarno_valle	Sarno_valle	921	Max WS	-6.75	-2.08	5.29	3.21	0.03	3.21	-0.15	2.33
Sarno_valle	Sarno_valle	877	Max WS	-17.33	-2.12	5.32	3.20	0.04	3.20	-0.19	2.92
Sarno_valle	Sarno_valle	742	Max WS	-48.98	-2.26	5.44	3.18	0.18	3.23	-0.98	2.93
Sarno_valle	Sarno_valle	564	Max WS	57.13	-2.45	5.48	3.03	0.27	3.11	1.24	2.17
Sarno_valle	Sarno_valle	531	Max WS	89.90	-2.50	5.31	2.81	0.33	2.95	1.66	2.52
Sarno_valle	Sarno_valle	512	Max WS	95.19	-2.52	5.23	2.71	0.38	2.88	1.81	2.34
Sarno_valle	Sarno_valle	447	Max WS	126.54	-2.59	4.64	2.05	0.49	2.52	3.04	3.94
Sarno_valle	Sarno_valle	375	Max WS	145.98	-2.66	4.37	1.71	0.53	2.06	2.61	2.49
Sarno_valle	Sarno_valle	343	Max WS	164.83	-2.71	4.41	1.70	0.35	1.88	1.88	2.92
Sarno_valle	Sarno_valle	308	Max WS	165.58	-2.76	4.46	1.70	0.26	1.82	1.59	3.72
Sarno_valle	Sarno_valle	264	Max WS	165.58	-2.83	4.48	1.65	0.28	1.78	1.63	3.55
Sarno_valle	Sarno_valle	114	Max WS	-89.90	-3.00	4.50	1.50	0.15	1.54	-0.85	3.18

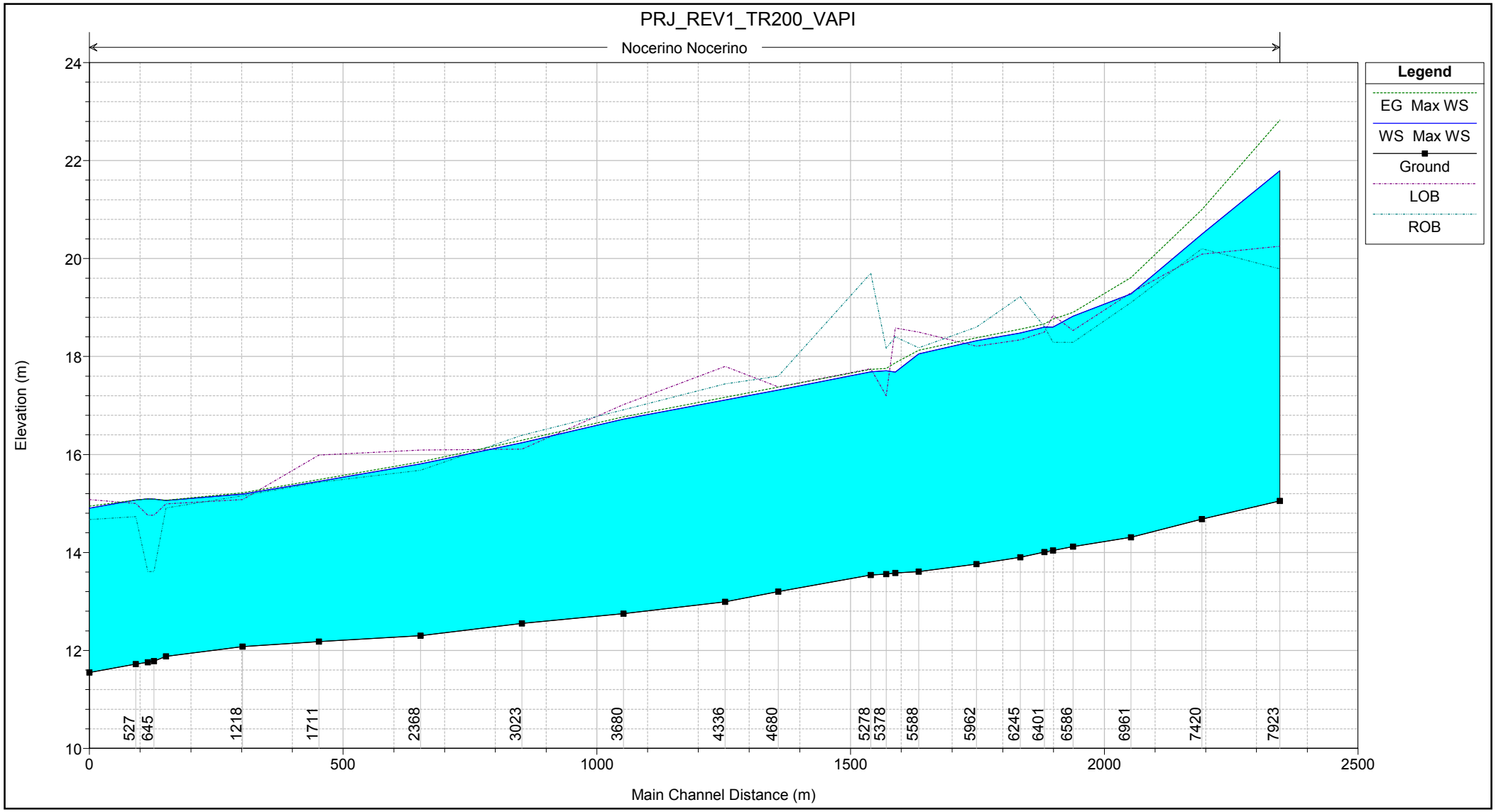
HEC-RAS Plan: PRJ_REV1_TR200_VAPI Profile: Max WS (Continued)

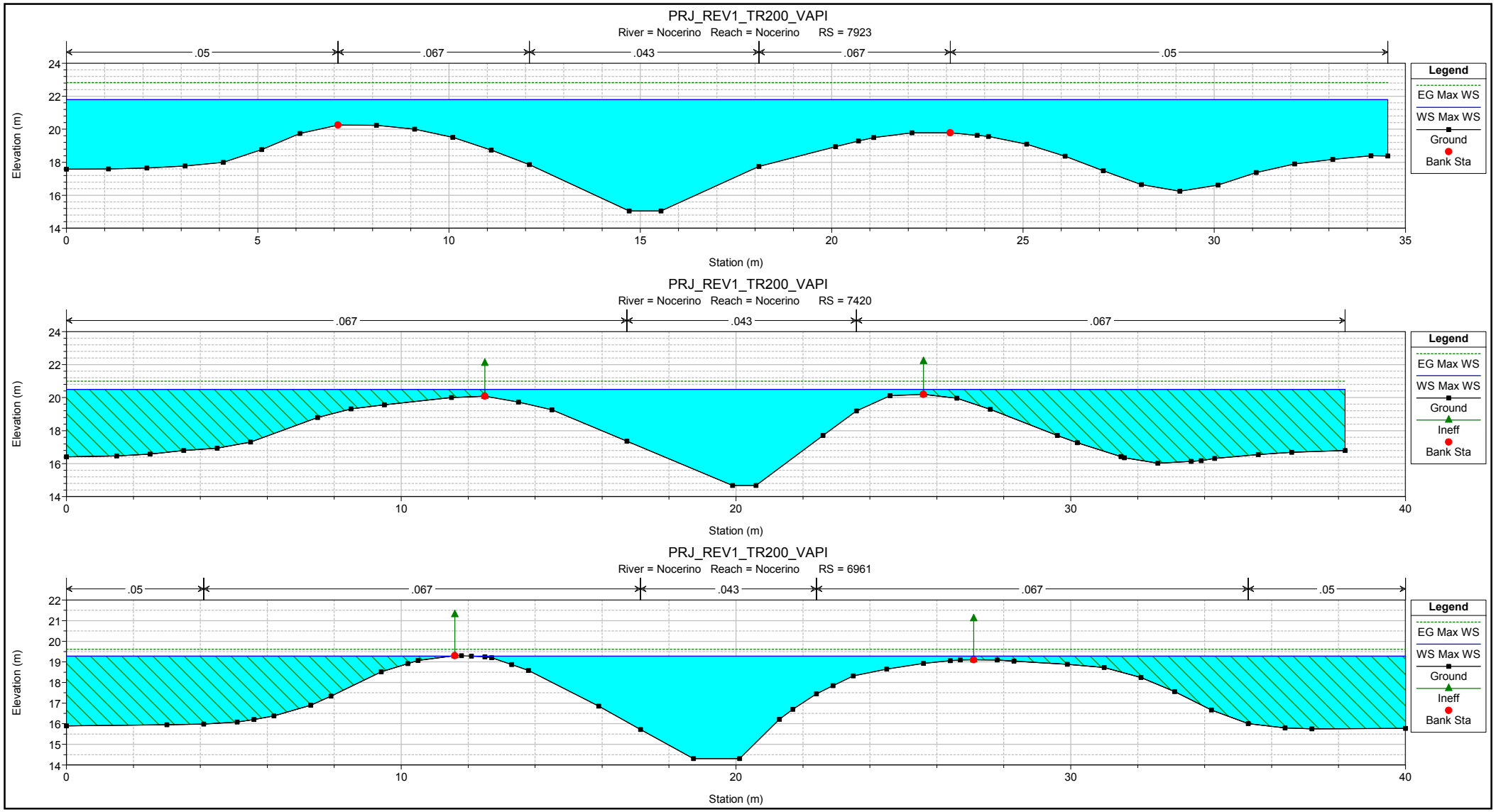
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno	Sarno	12874	Max WS	310.10	11.16	4.64	15.80	0.60	16.22	3.15	2.17
Sarno	Sarno	12873		Lat Struct							
Sarno	Sarno	12872		Lat Struct							
Sarno	Sarno	12610	Max WS	50.19	11.10	4.27	15.37	0.17	15.41	0.83	2.42
Sarno	Sarno	12325	Max WS	44.08	11.08	4.06	15.14	0.17	15.17	0.79	2.29
Sarno	Sarno	12196	Max WS	42.06	11.07	4.00	15.07	0.11	15.08	0.57	2.70
Sarno	Sarno	12006	Max WS	45.75	11.06	3.97	15.03	0.12	15.05	0.56	2.38
Sarno	Sarno	11856	Max WS	16.07	11.05	3.97	15.02	0.06	15.03	0.29	2.12
Sarno	Sarno	11698	Max WS	19.67	11.04	3.97	15.01	0.06	15.01	0.30	2.44
Sarno	Sarno	11660	Max WS	19.29	11.03	3.96	15.00	0.09	15.00	0.37	1.81
Sarno	Sarno	11647	Max WS	18.72	11.02	3.97	14.99	0.10	15.00	0.42	1.76
Sarno	Sarno	11598	Max WS	18.66	11.02	3.97	14.99	0.06	14.99	0.30	2.73
Sarno	Sarno	11539	Max WS	16.80	11.01	3.98	14.99	0.05	14.99	0.23	2.15
Sarno	Sarno	11326	Max WS	7.18	11.00	3.98	14.98	0.02	14.98	0.10	2.21
Sarno	Sarno	11000	Max WS	31.77	10.99	3.96	14.95	0.07	14.96	0.36	2.48
Sarno	Sarno	10836	Max WS	14.76	10.98	3.97	14.95	0.05	14.95	0.22	2.26
Sarno	Sarno	10589	Max WS	35.89	10.97	3.94	14.91	0.08	14.92	0.39	2.51
Sarno	Sarno	10415	Max WS	22.36	10.90	4.00	14.90	0.09	14.91	0.38	1.66
Sarno	Sarno	10205	Max WS	-5.51	10.81	4.09	14.90	0.02	14.90	-0.10	1.79

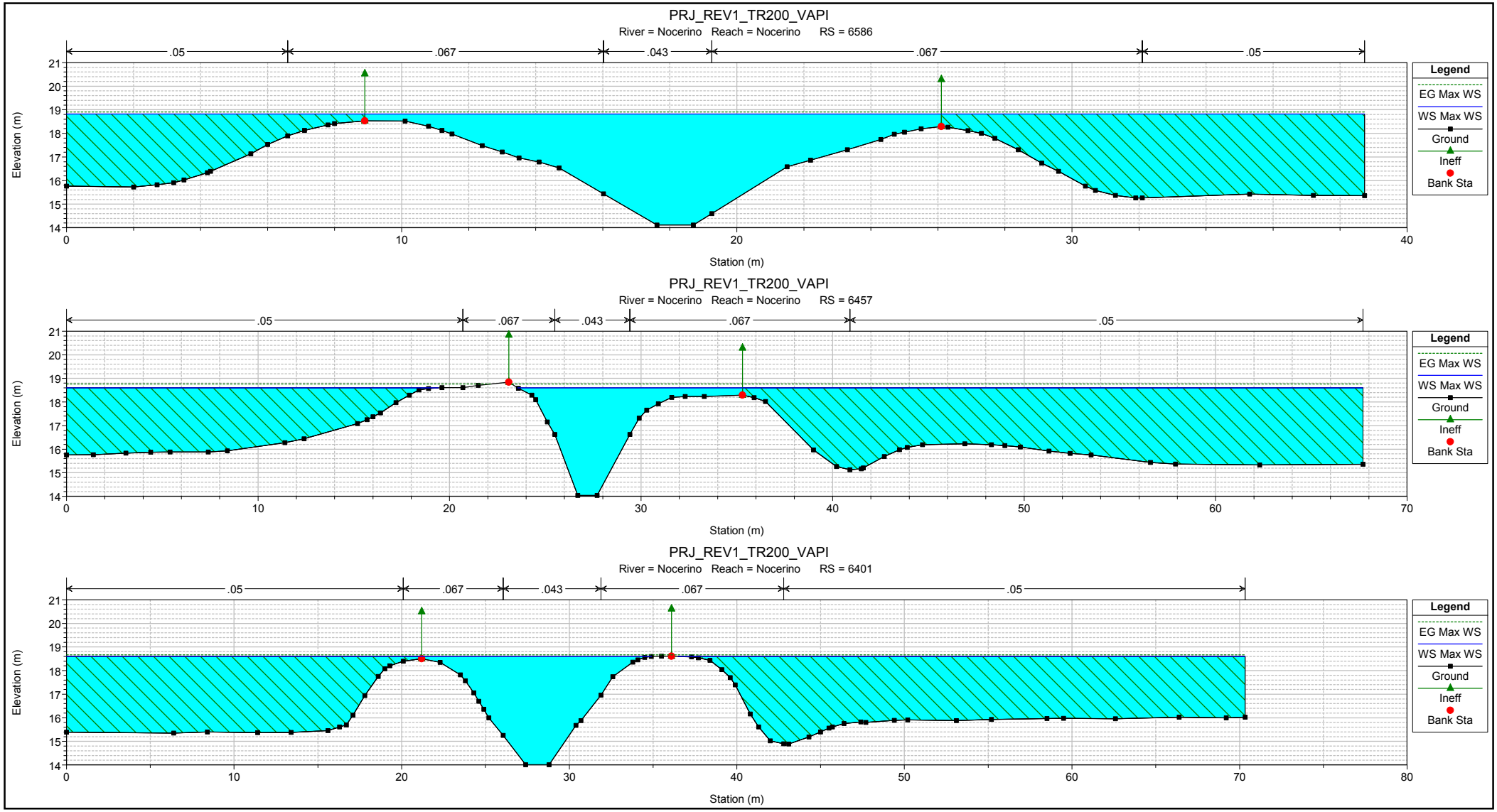
HEC-RAS Plan: PRJ_REV1_TR200_VAPI River: Nocerino Reach: Nocerino Profile: Max WS

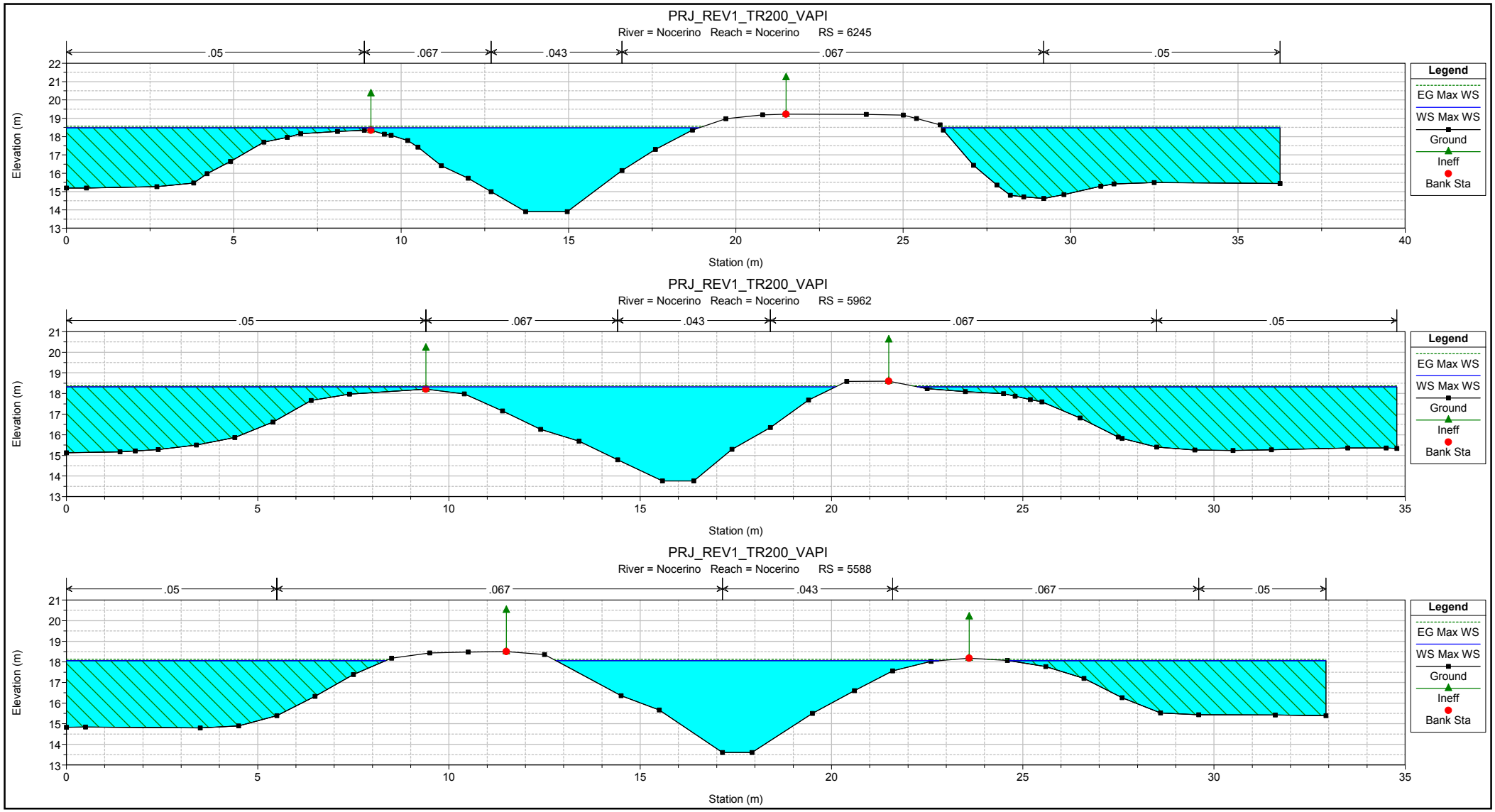
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
			(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Nocerino	7923	Max WS	570.12	15.05	6.74	21.79	0.74	22.83	4.44	3.69
Nocerino	7922		Lat Struct							
Nocerino	7921		Lat Struct							
Nocerino	7420	Max WS	114.69	14.68	5.82	20.50	0.60	21.00	3.13	2.79
Nocerino	6961	Max WS	81.54	14.31	4.97	19.28	0.56	19.61	2.57	2.12
Nocerino	6586	Max WS	47.09	14.12	4.70	18.82	0.27	18.90	1.26	2.17
Nocerino	6457	Max WS	33.82	14.04	4.56	18.60	0.45	18.76	1.78	1.62
Nocerino	6401	Max WS	32.43	14.01	4.59	18.60	0.25	18.66	1.12	2.12
Nocerino	6245	Max WS	30.33	13.90	4.58	18.48	0.26	18.56	1.27	2.43
Nocerino	5962	Max WS	26.23	13.76	4.56	18.32	0.23	18.38	1.08	2.28
Nocerino	5588	Max WS	25.84	13.61	4.44	18.05	0.26	18.13	1.20	2.15
Nocerino	5437	Max WS	25.81	13.58	4.10	17.68	0.45	17.87	1.92	1.90
Nocerino	5378	Max WS	24.71	13.56	4.15	17.71	0.21	17.76	0.97	2.24
Nocerino	5278	Max WS	20.25	13.54	4.15	17.69	0.22	17.74	0.97	2.06
Nocerino	4680	Max WS	20.38	13.20	4.12	17.32	0.25	17.38	1.09	1.85
Nocerino	4336	Max WS	20.17	12.99	4.12	17.11	0.22	17.17	1.04	2.33
Nocerino	3680	Max WS	20.11	12.75	3.97	16.72	0.24	16.77	0.97	1.73
Nocerino	3023	Max WS	19.15	12.55	3.69	16.24	0.26	16.29	1.01	1.56
Nocerino	2368	Max WS	16.39	12.30	3.51	15.81	0.23	15.85	0.90	1.52
Nocerino	1711	Max WS	13.20	12.18	3.27	15.45	0.24	15.49	0.84	1.30
Nocerino	1218	Max WS	12.36	12.08	3.11	15.19	0.21	15.22	0.72	1.20
Nocerino	723	Max WS	6.62	11.88	3.26	15.06	0.09	15.07	0.33	1.41
Nocerino	645	Max WS	5.07	11.78	3.31	15.09	0.03	15.09	0.15	2.03
Nocerino	605	Max WS	3.06	11.76	3.33	15.09	0.02	15.09	0.09	2.09
Nocerino	527	Max WS	2.60	11.72	3.35	15.07	0.04	15.07	0.14	1.22
Nocerino	227	Max WS	18.27	11.55	3.35	14.90	0.25	14.95	0.93	1.47

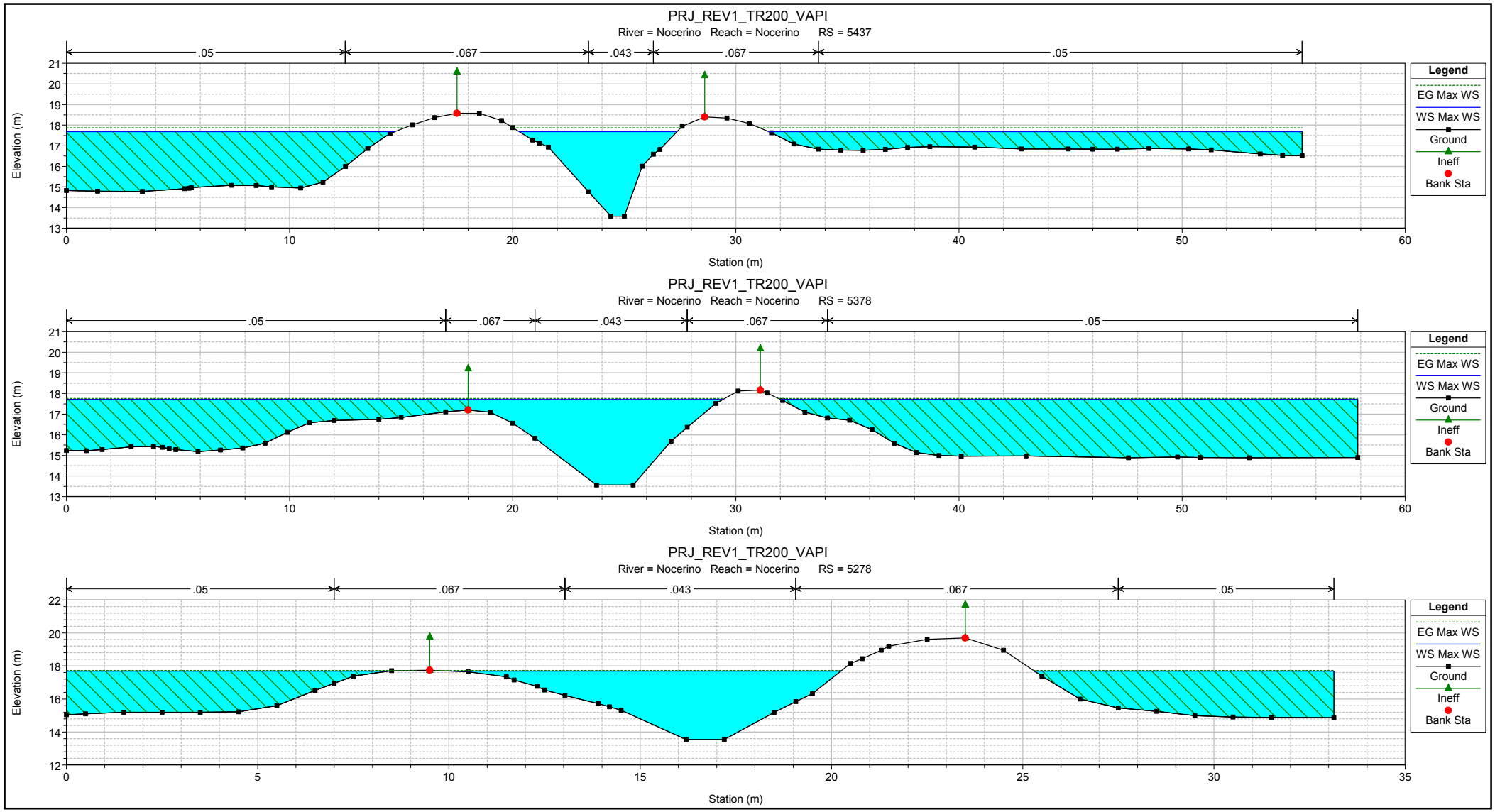

PRJ_REV1_TR200_VAPI
Sarno_valle Sarno_valle
Sarno Sarno
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
20
15
10
5
0
-5
0
2000
4000
6000
8000
10000
12000
14000
308
512
742
921
1164
1418
1667
1869
2088
2285
2514
2705
2928
3144
3499
3685
3863
4061
4284
4463
4661
4906
5107
5279
5478
5662
5861
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6325
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7939
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8311
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8789
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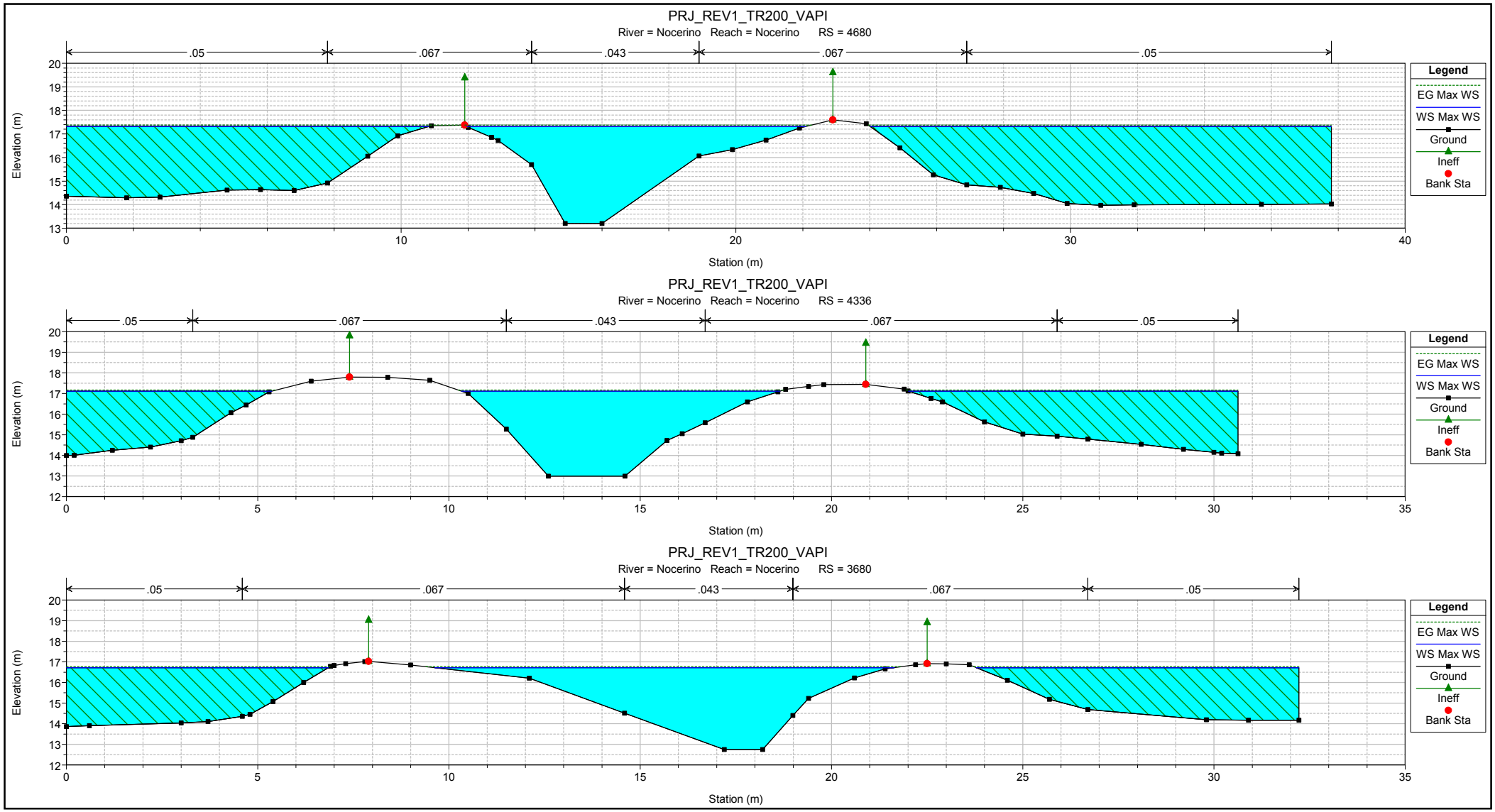

PRJ_REV1_TR200_VAPI
Nocerino Nocerino
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
24
22
20
18
16
14
12
10
0
500
1000
1500
2000
2500
527
645
1218
1711
2368
3023
3680
4336
4680
5278
5378
5588
5962
6245
6401
6586
6961
7420
7923

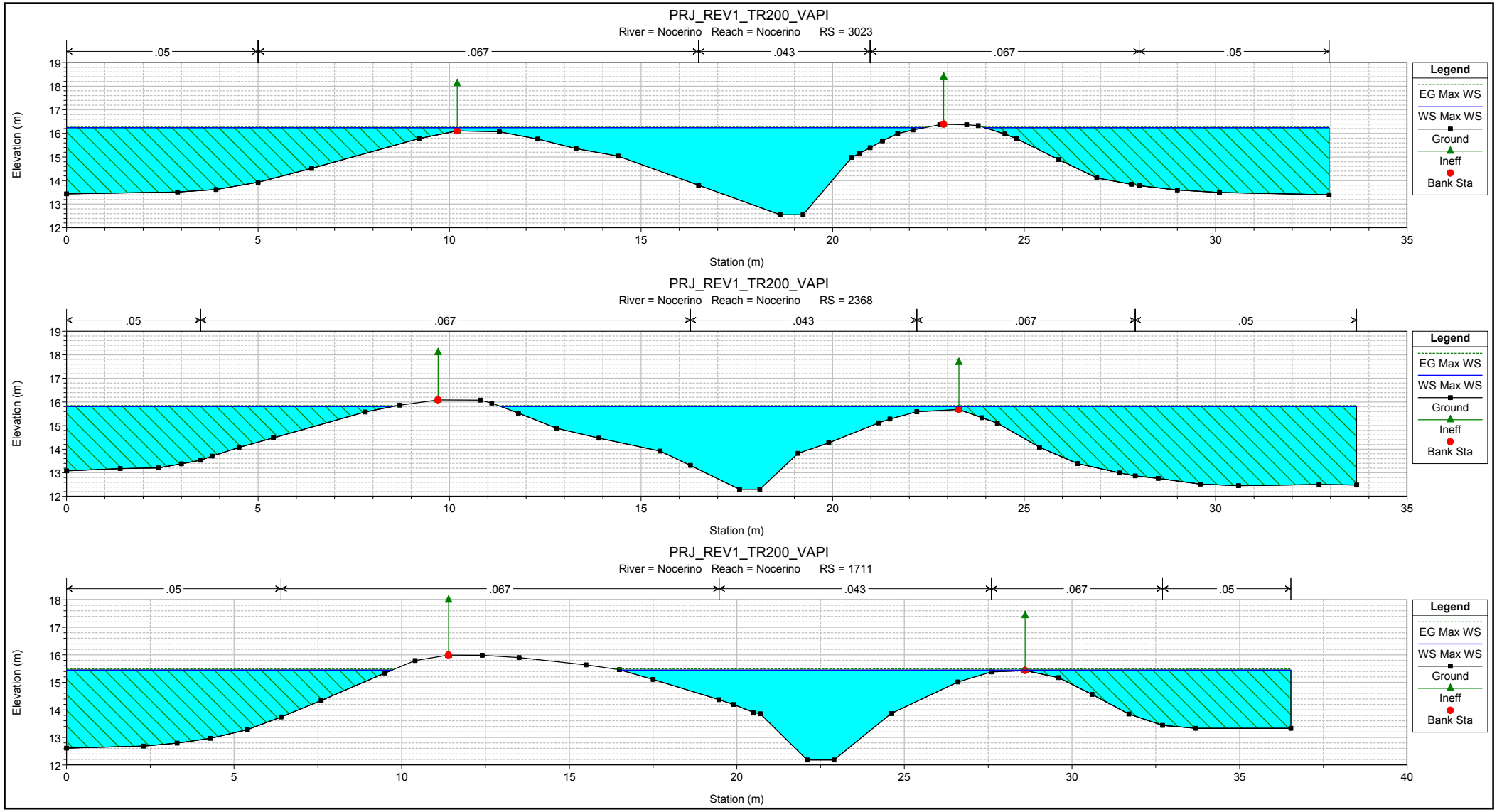

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 7923
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 7420
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6961
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

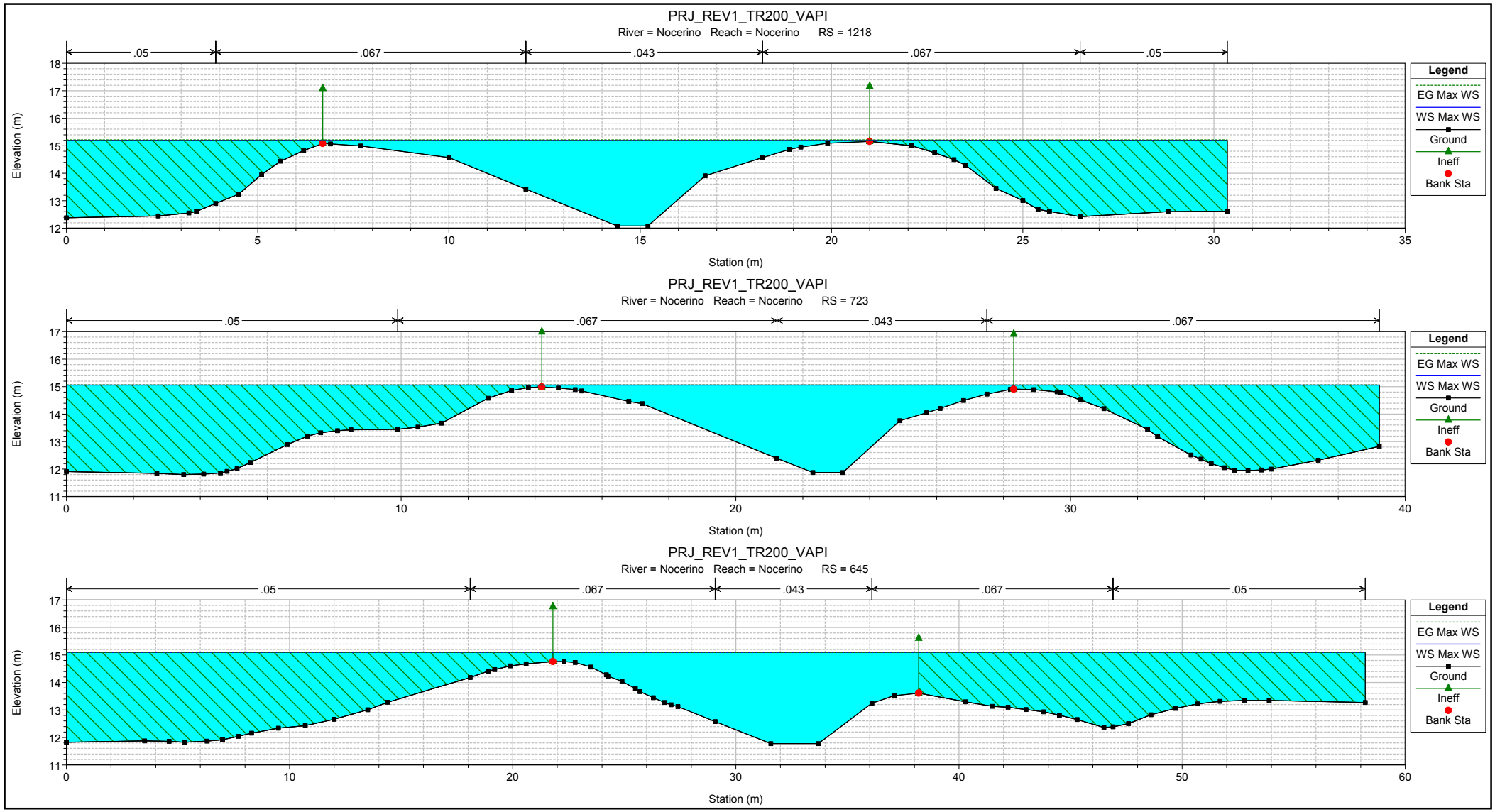

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6586
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6457
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6401
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

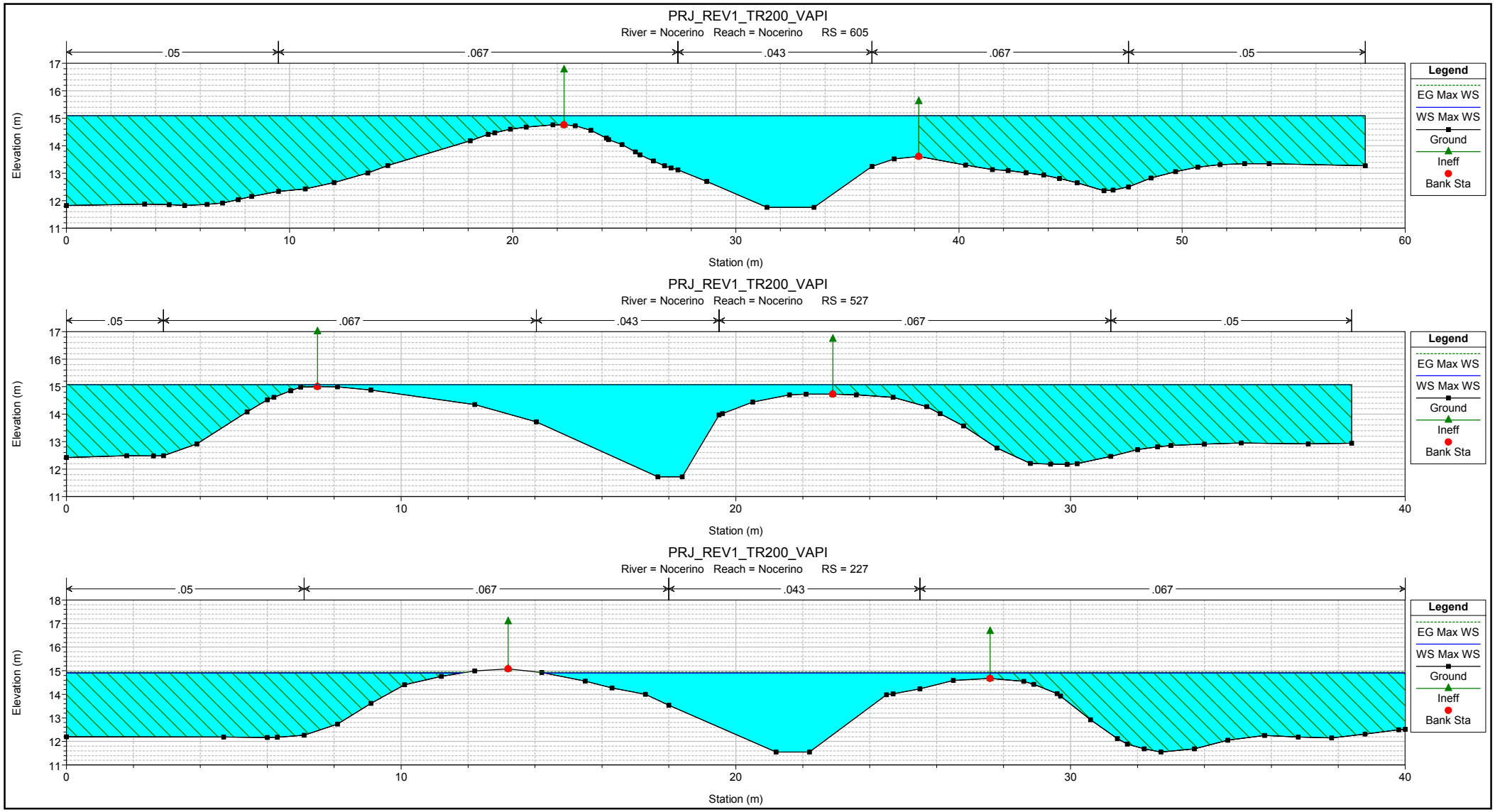

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 6245
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5962
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5588
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

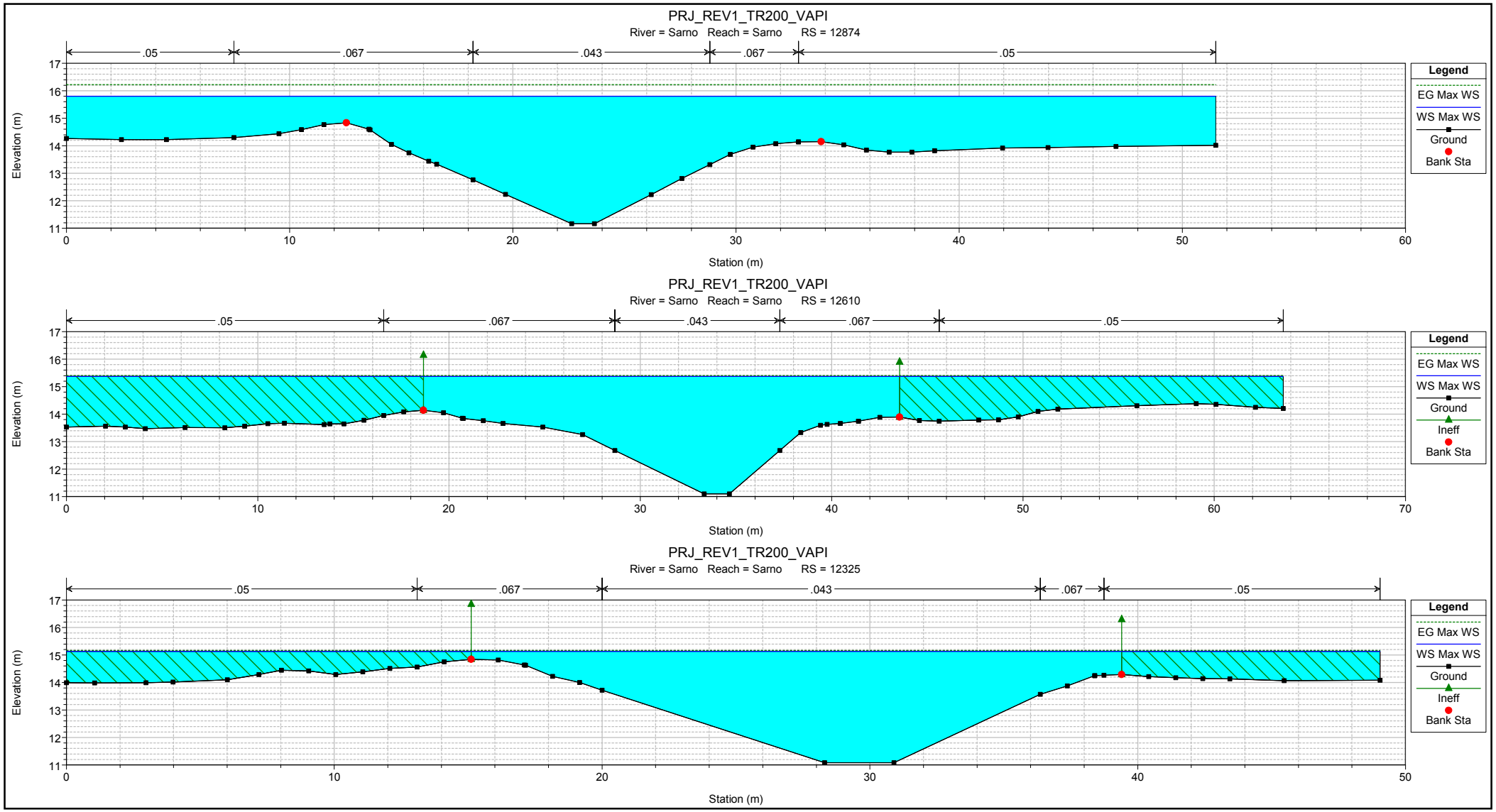

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5378
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 5278
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

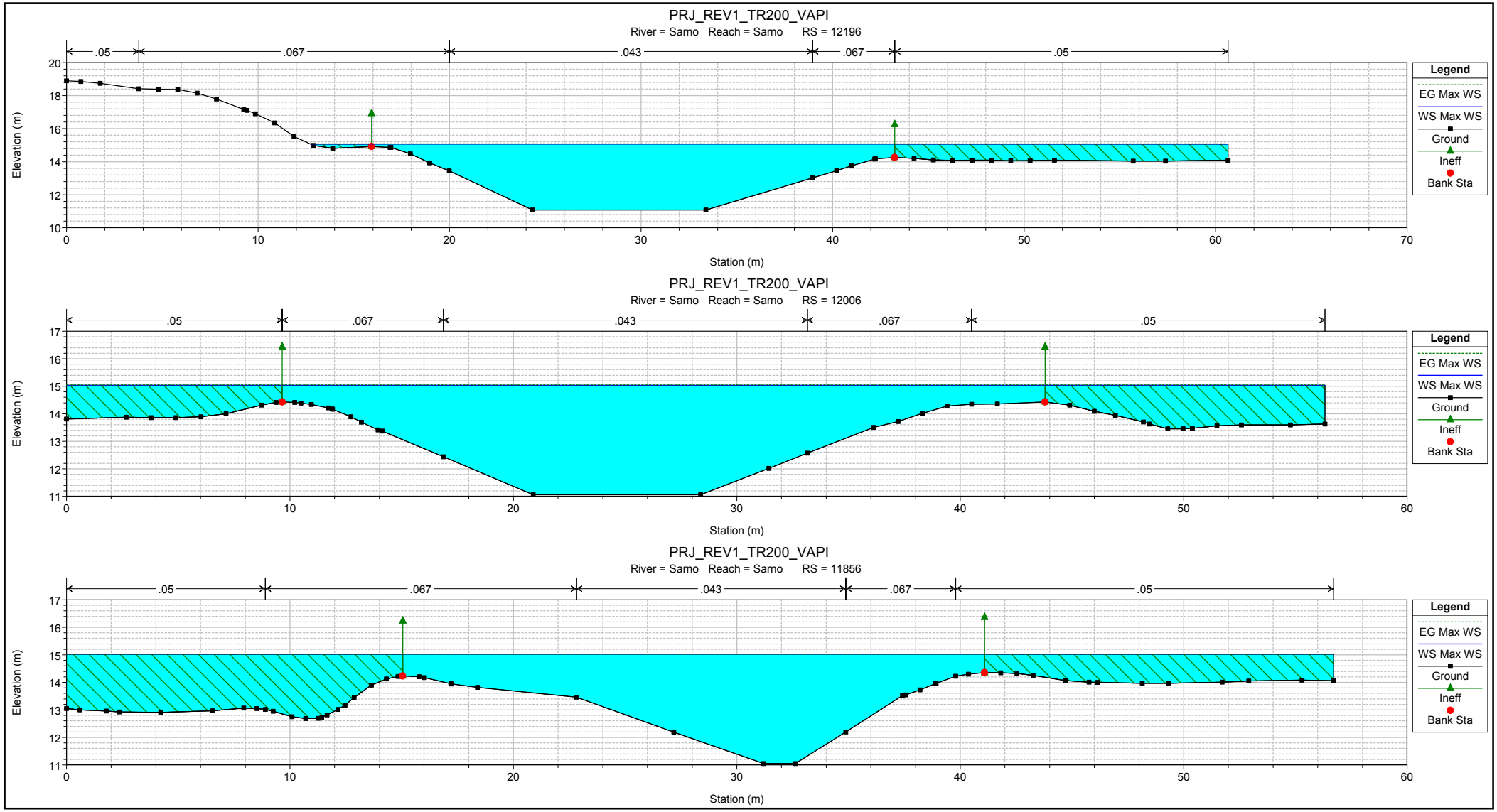

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 4680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 4336
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 3680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

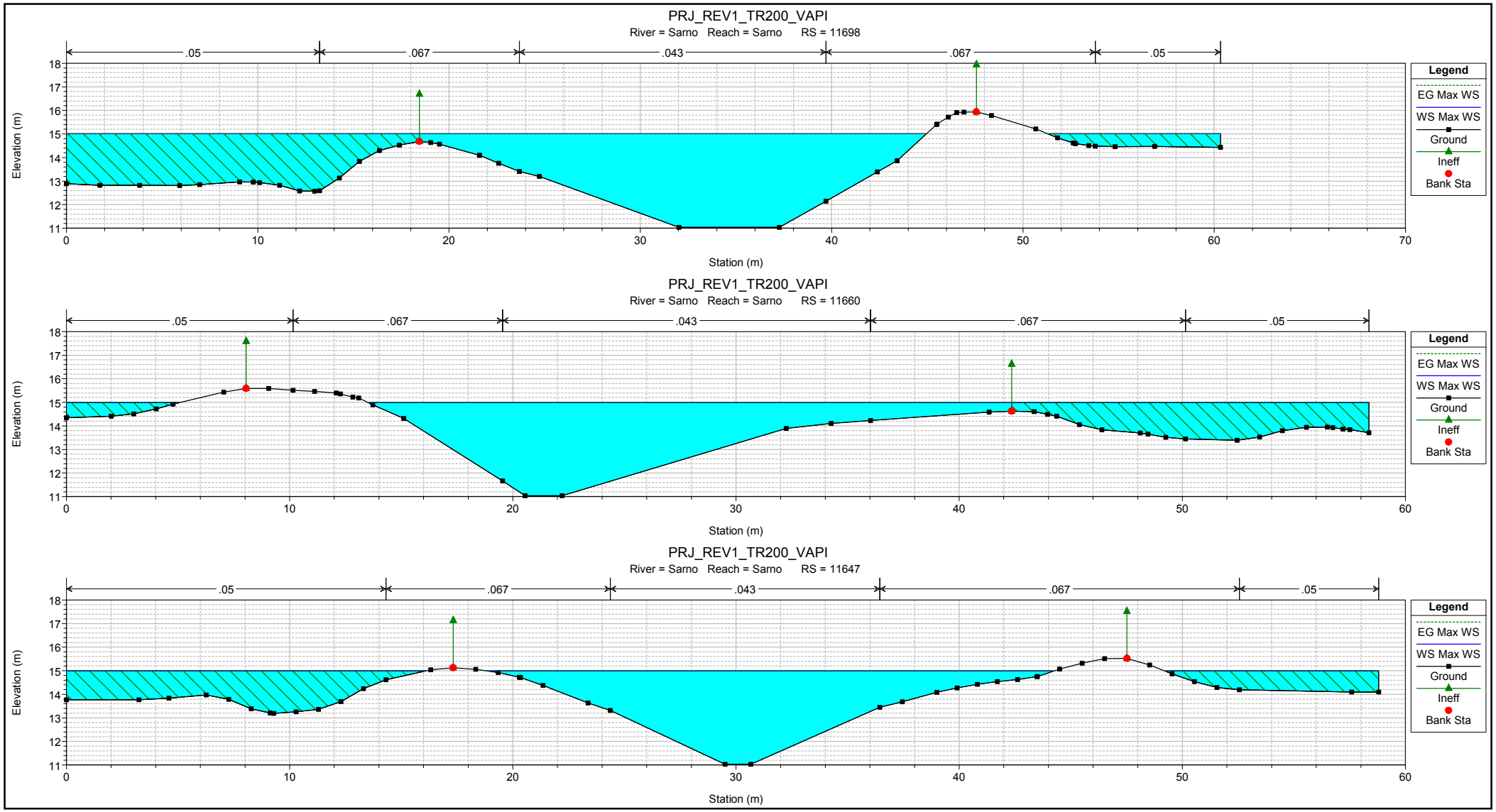

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 3023
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 2368
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 1711
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

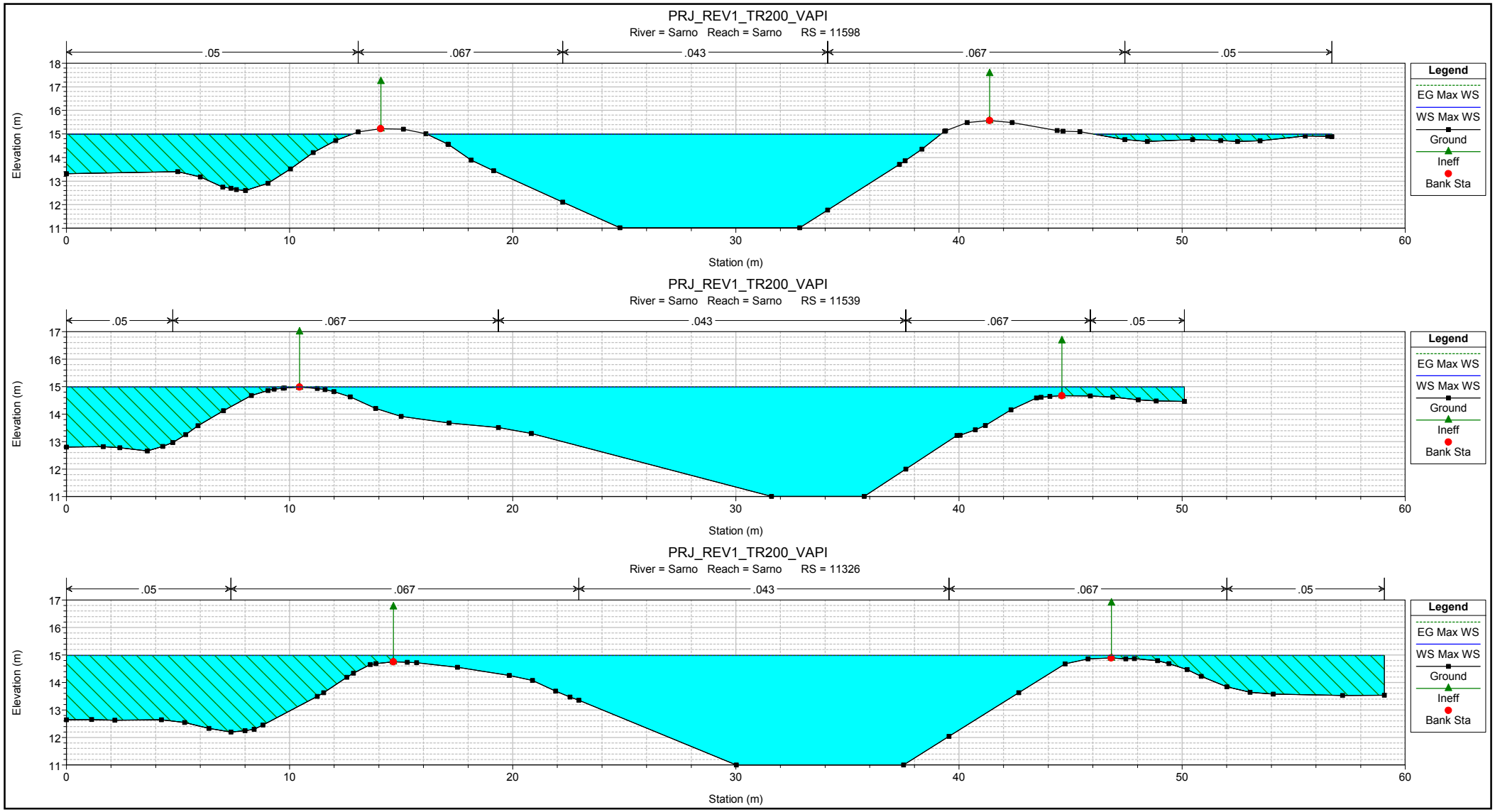

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 1218
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 723
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 645
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

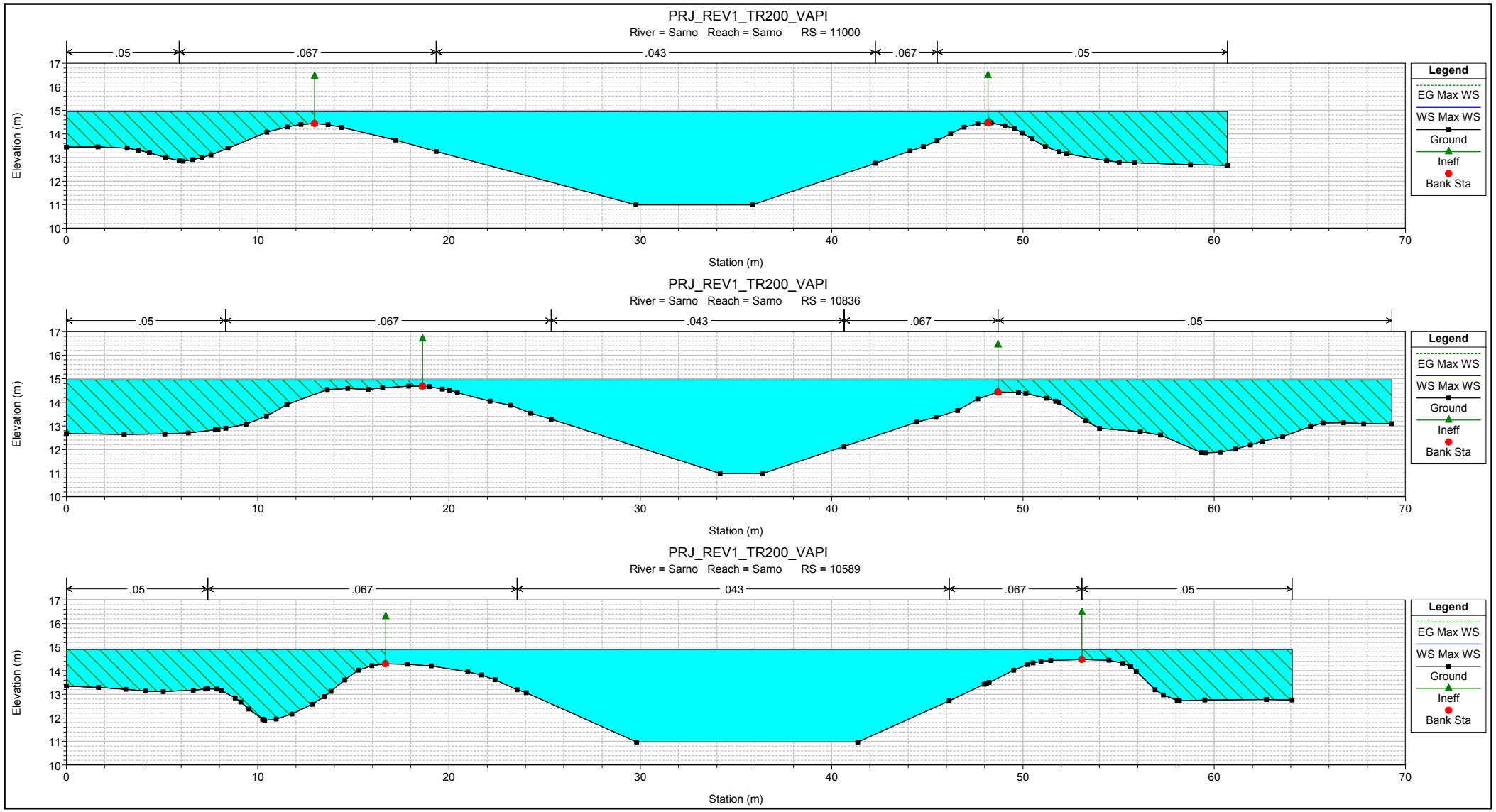

PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 605
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 527
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Nocerino Reach = Nocerino RS = 227
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

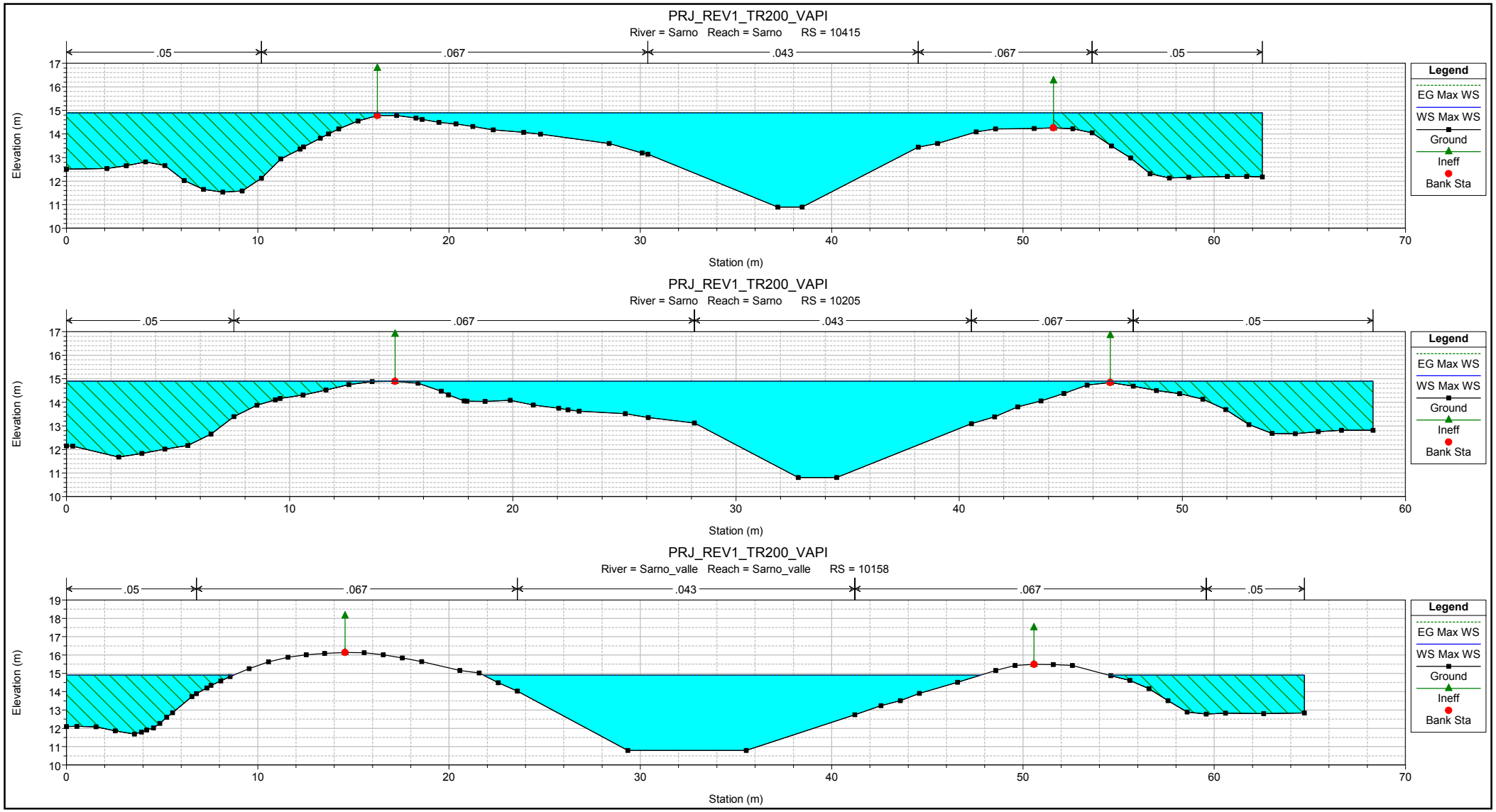

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12874
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12610
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12325
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

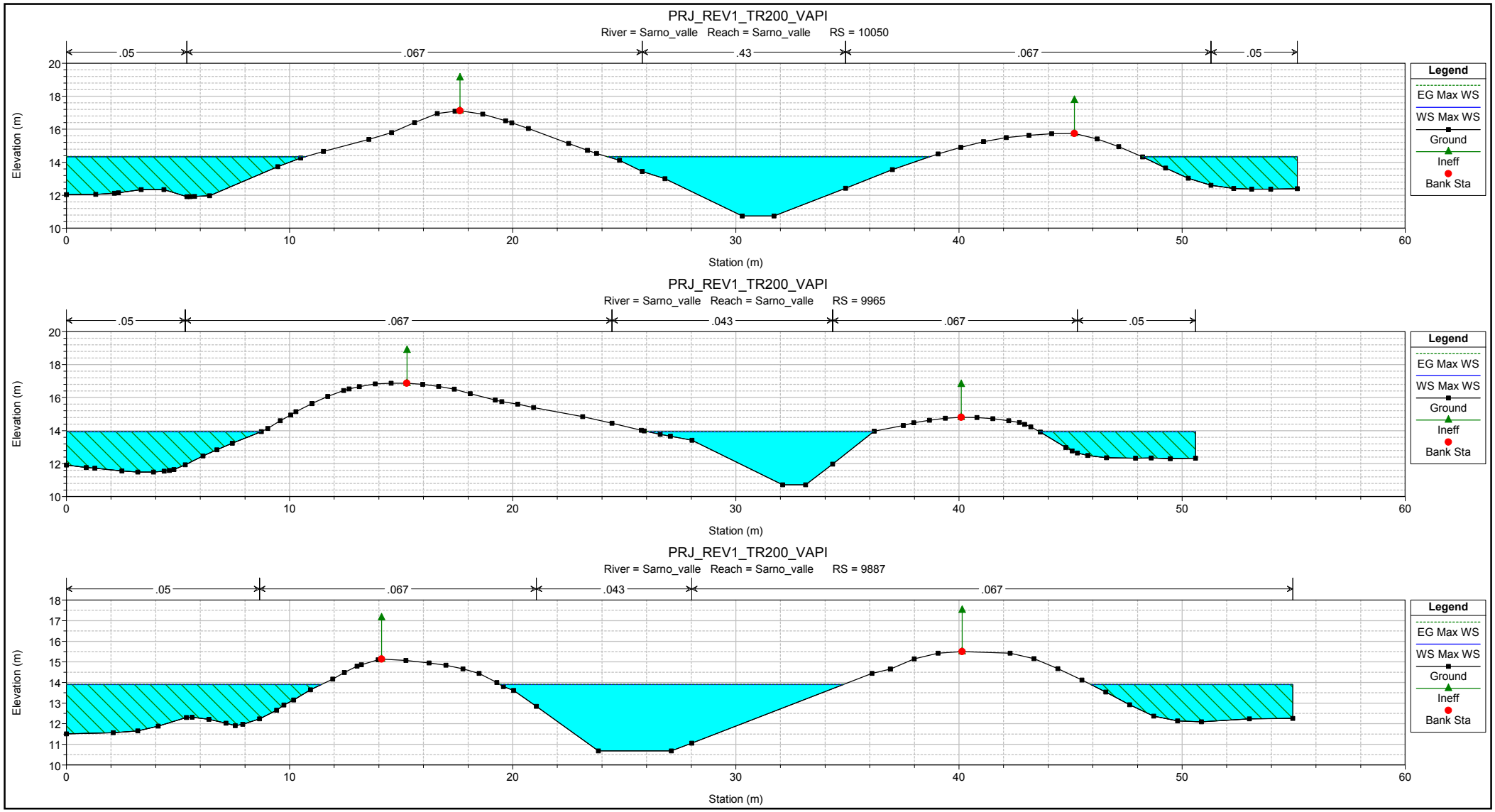

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12196
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 12006
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11856
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

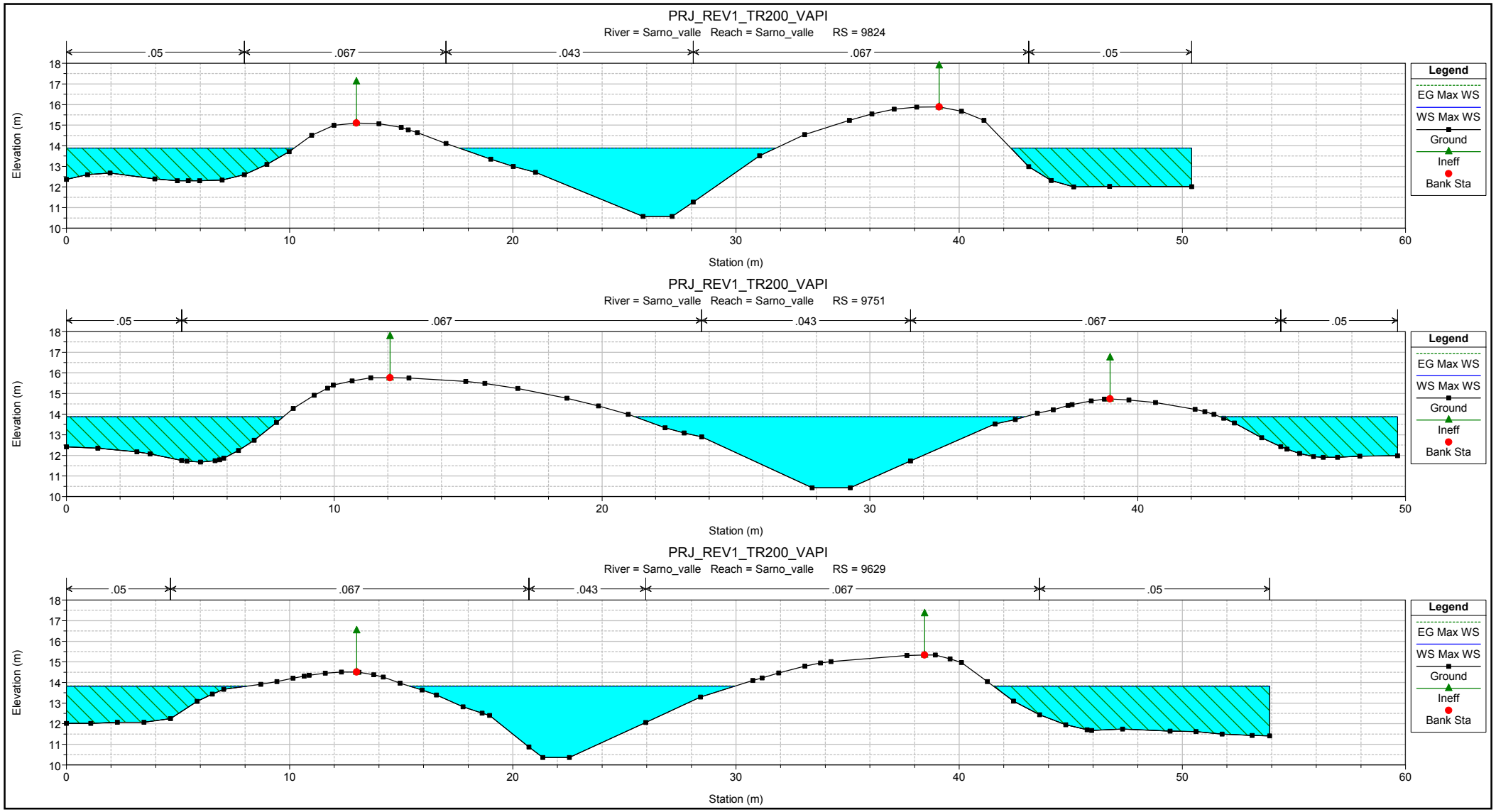

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11698
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11660
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11647
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

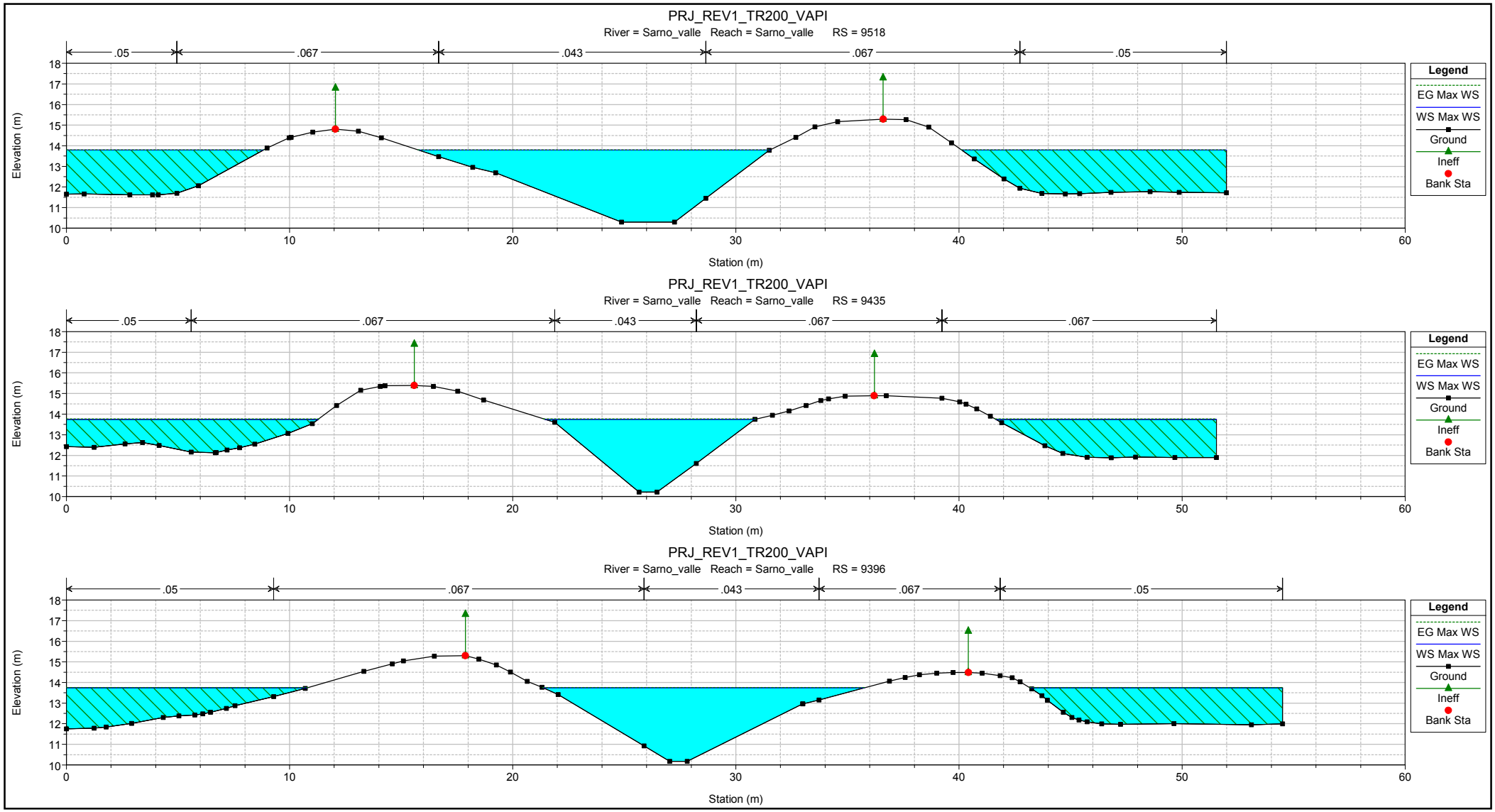

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11598
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11539
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11326
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

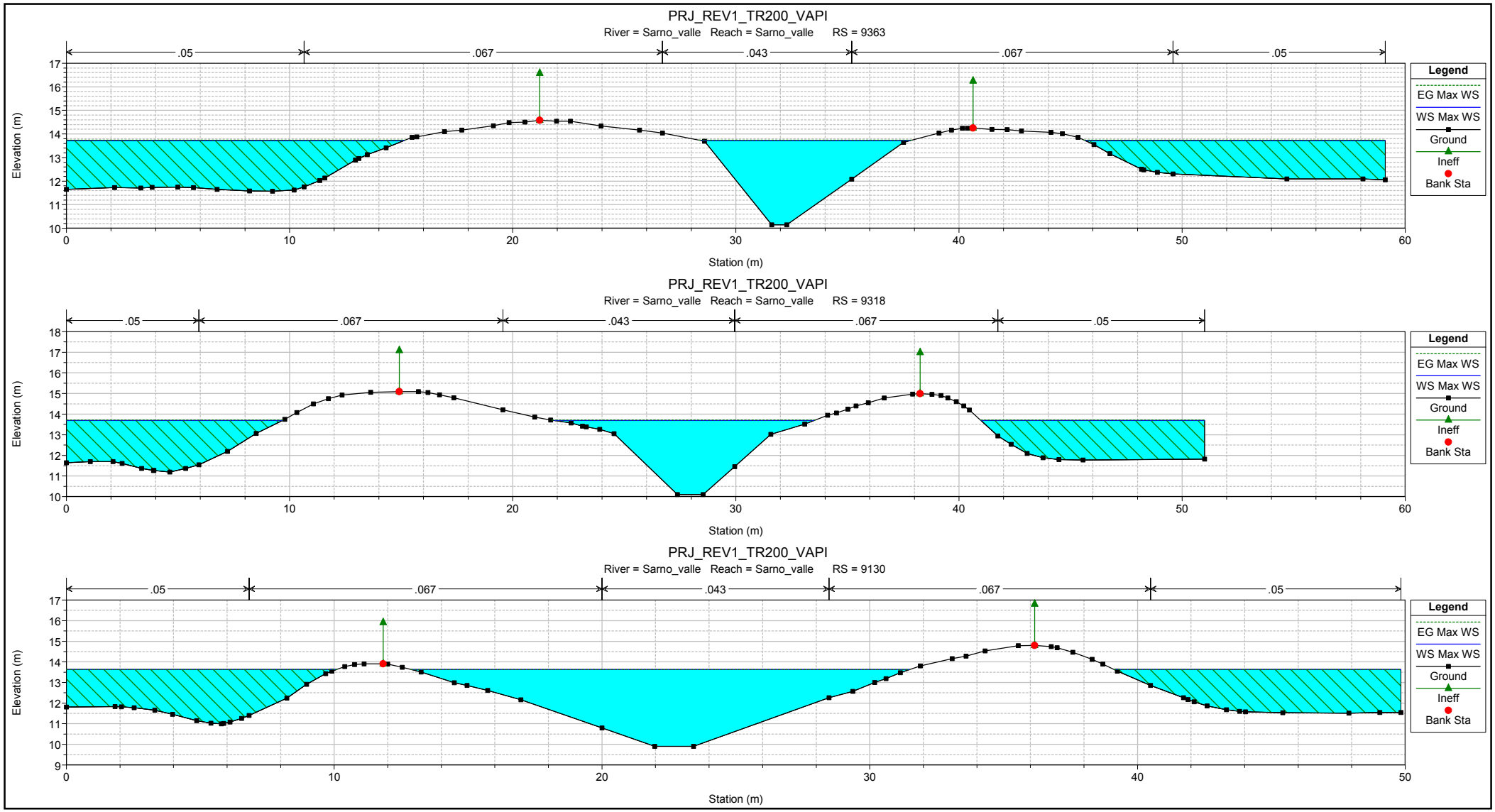

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 11000
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 10836
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 10589
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

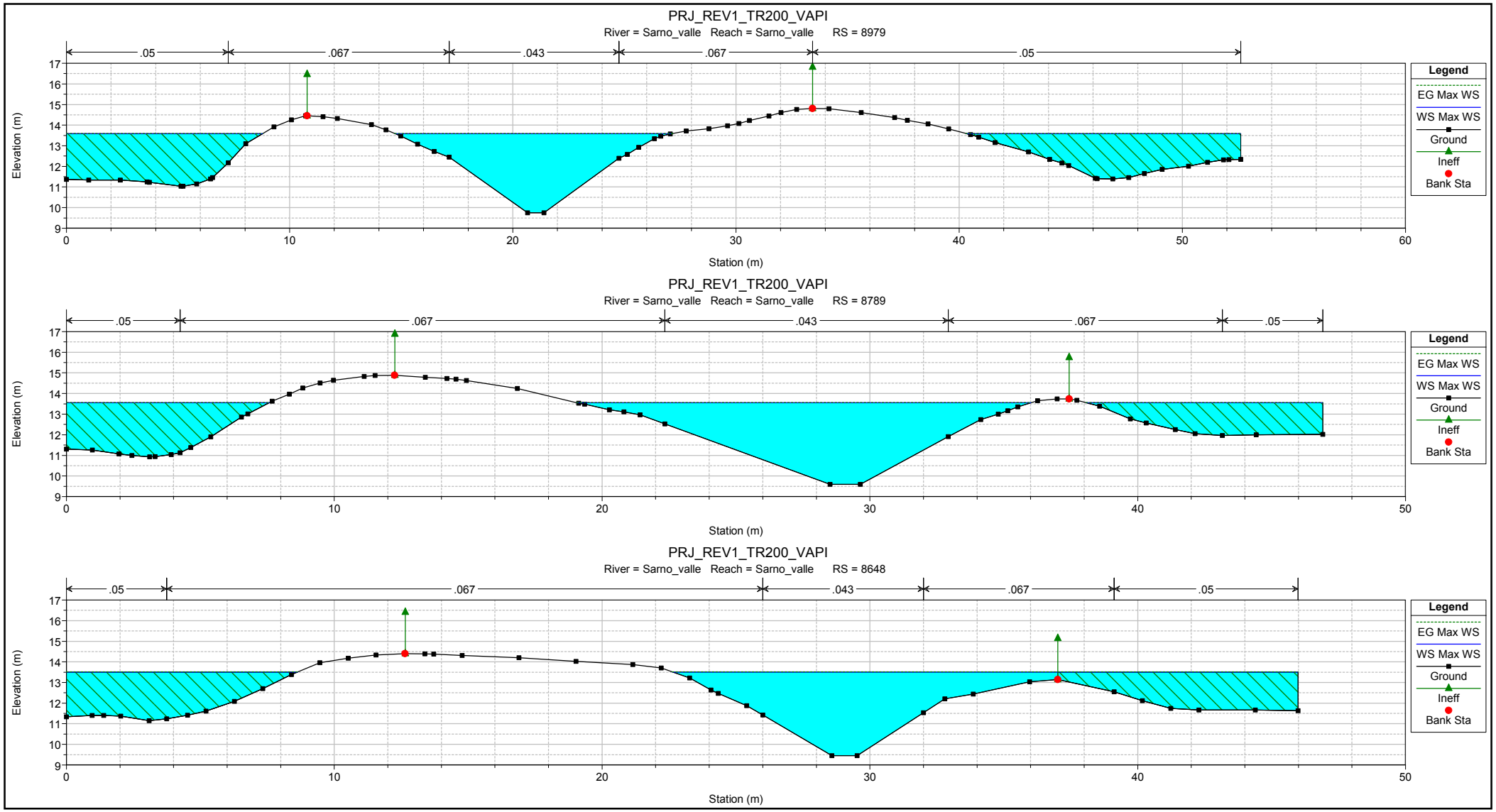

PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 10415
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno Reach = Sarno RS = 10205
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10158
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

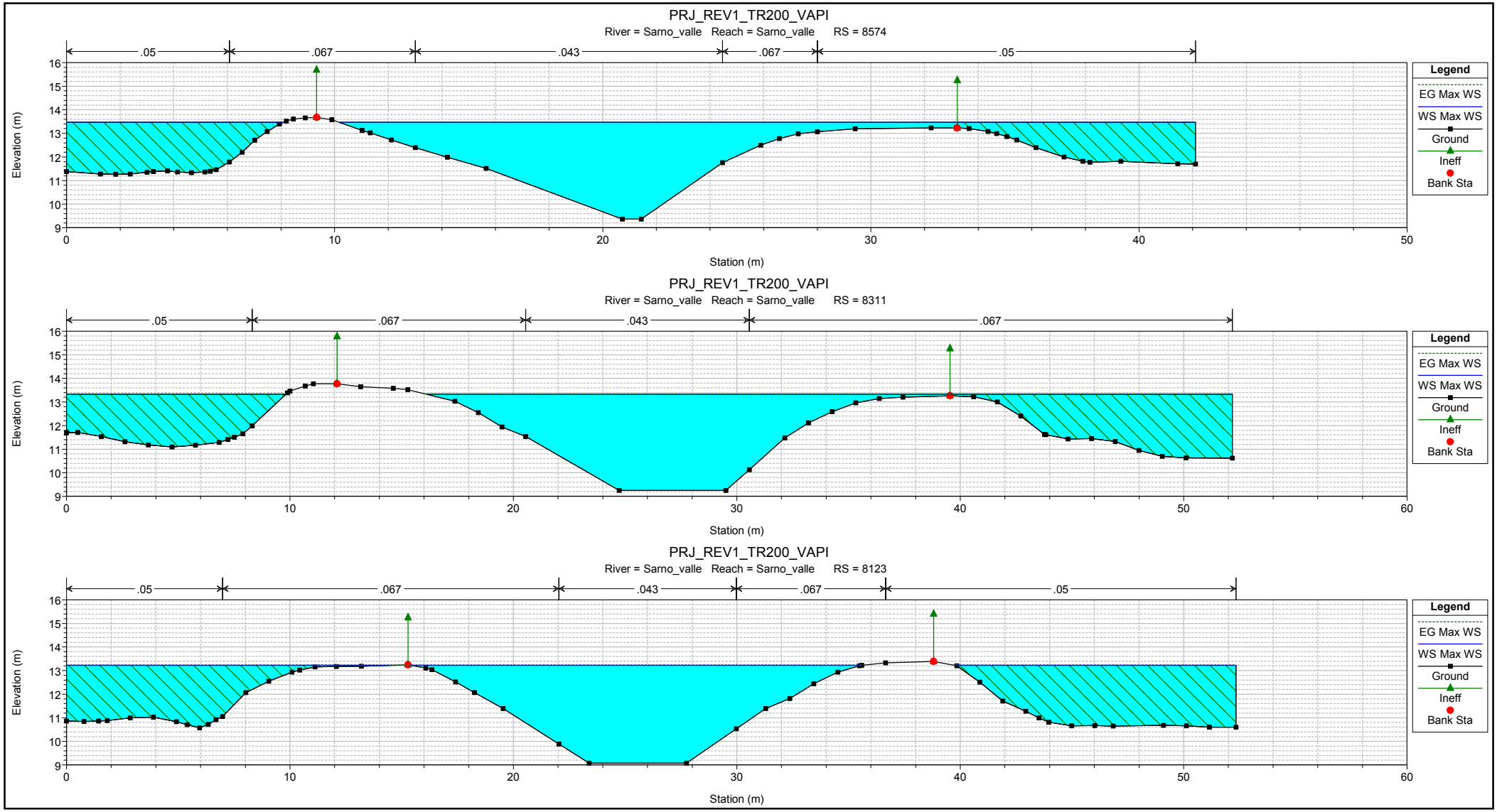

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10050
.05
.067
.43
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9965
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9887
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

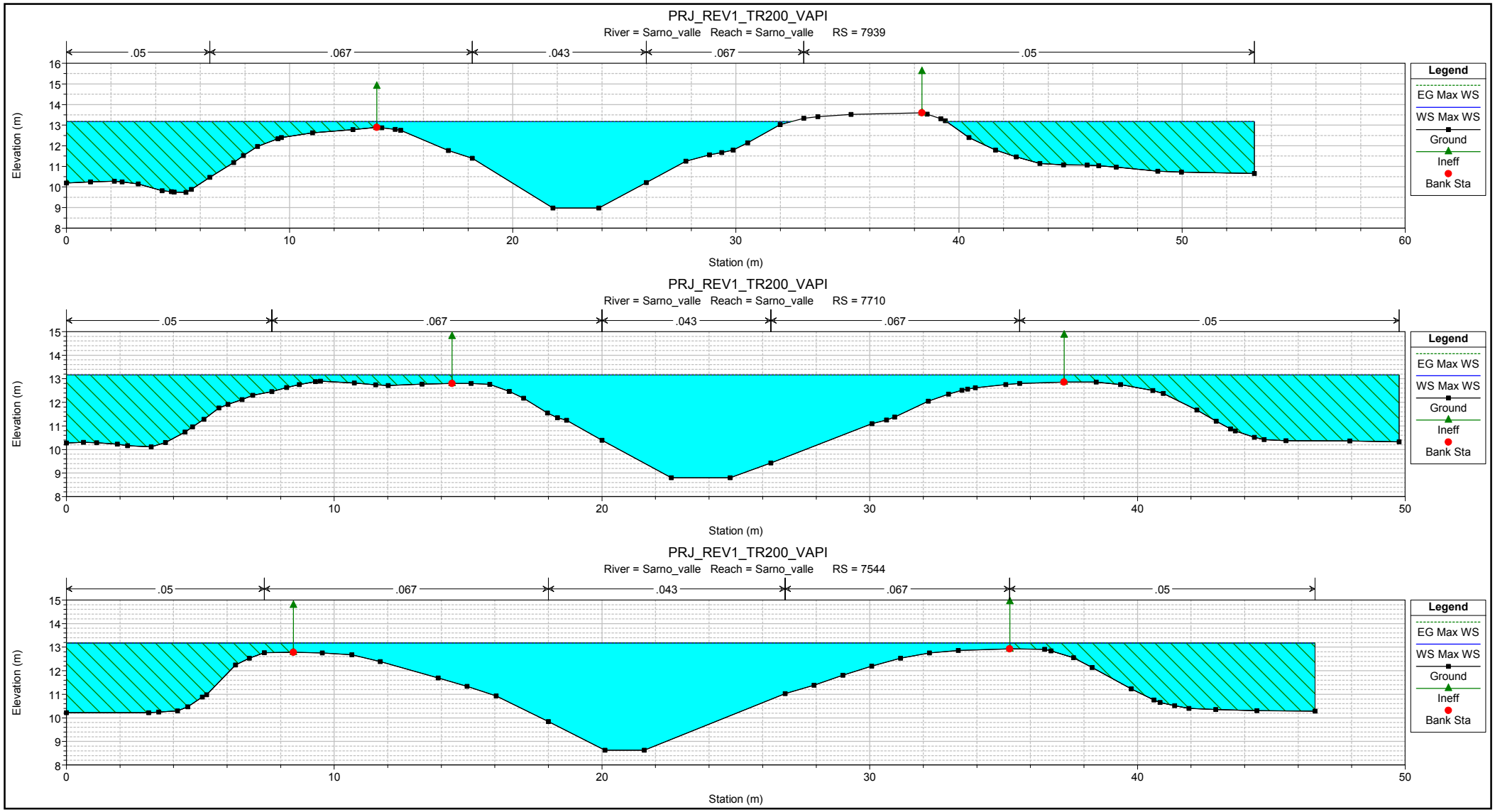

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9824
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9629
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

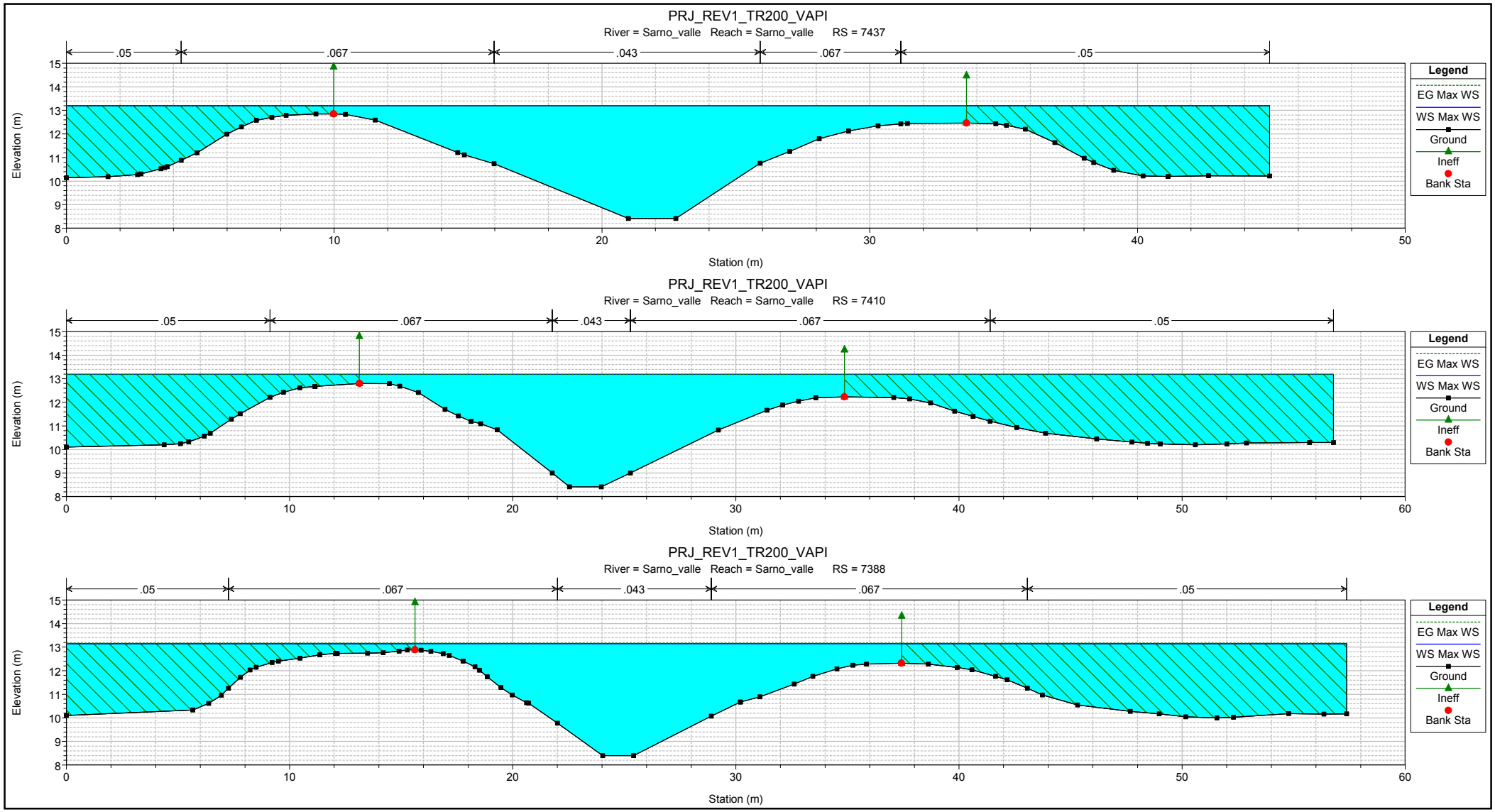

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9518
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9435
.05
.067
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9396
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

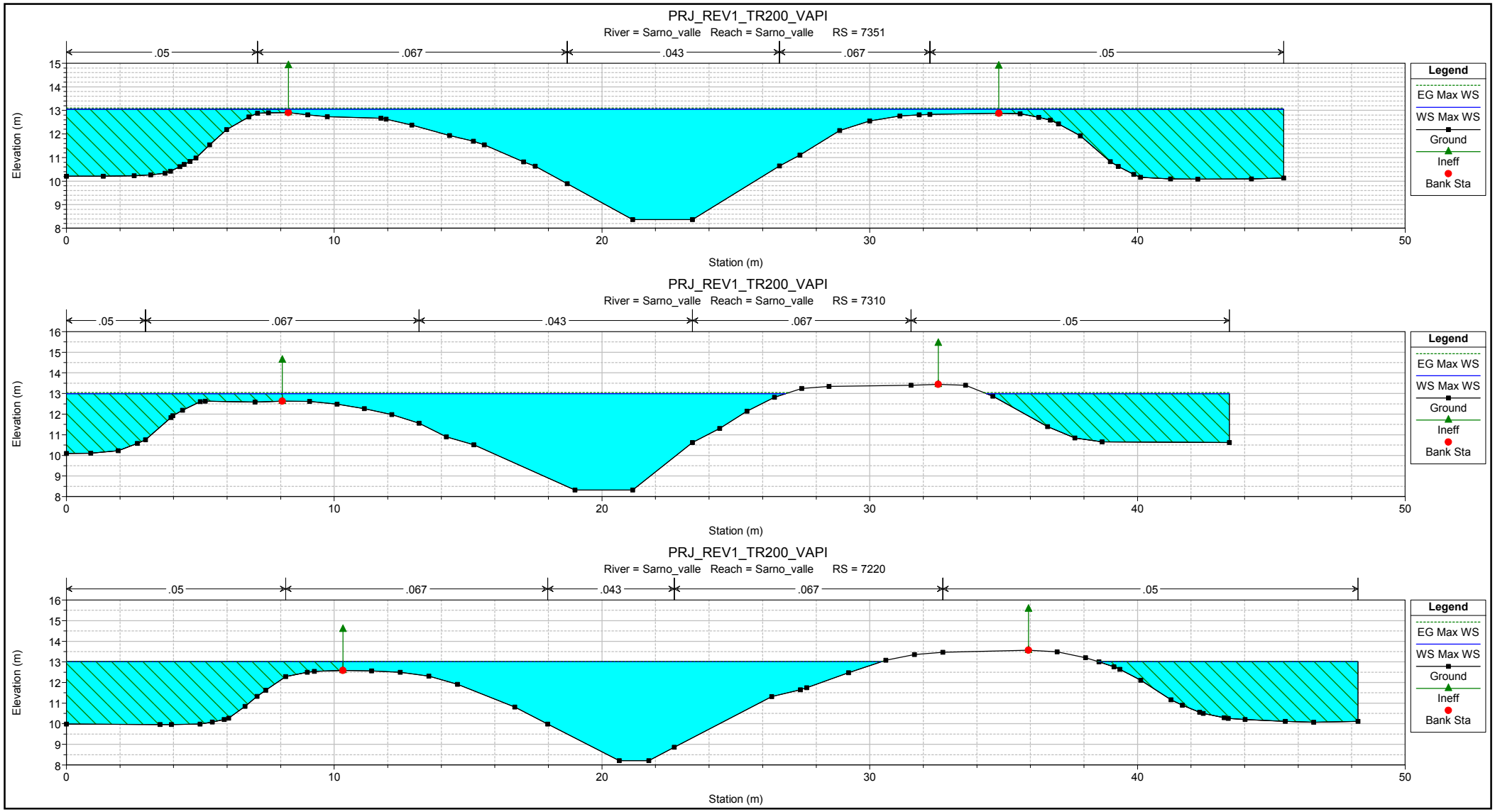

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9363
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9318
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9130
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

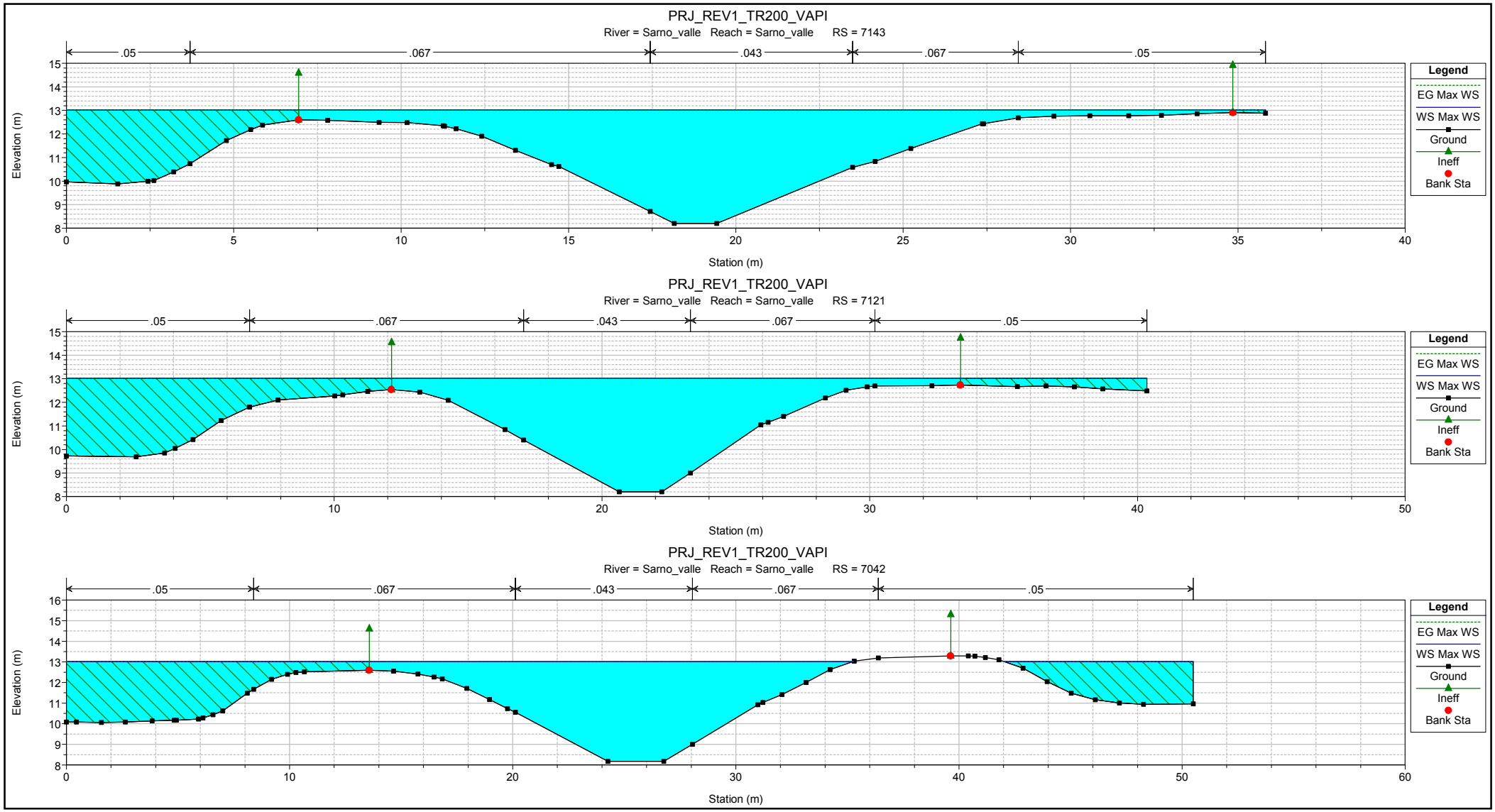

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8979
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8789
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8648
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

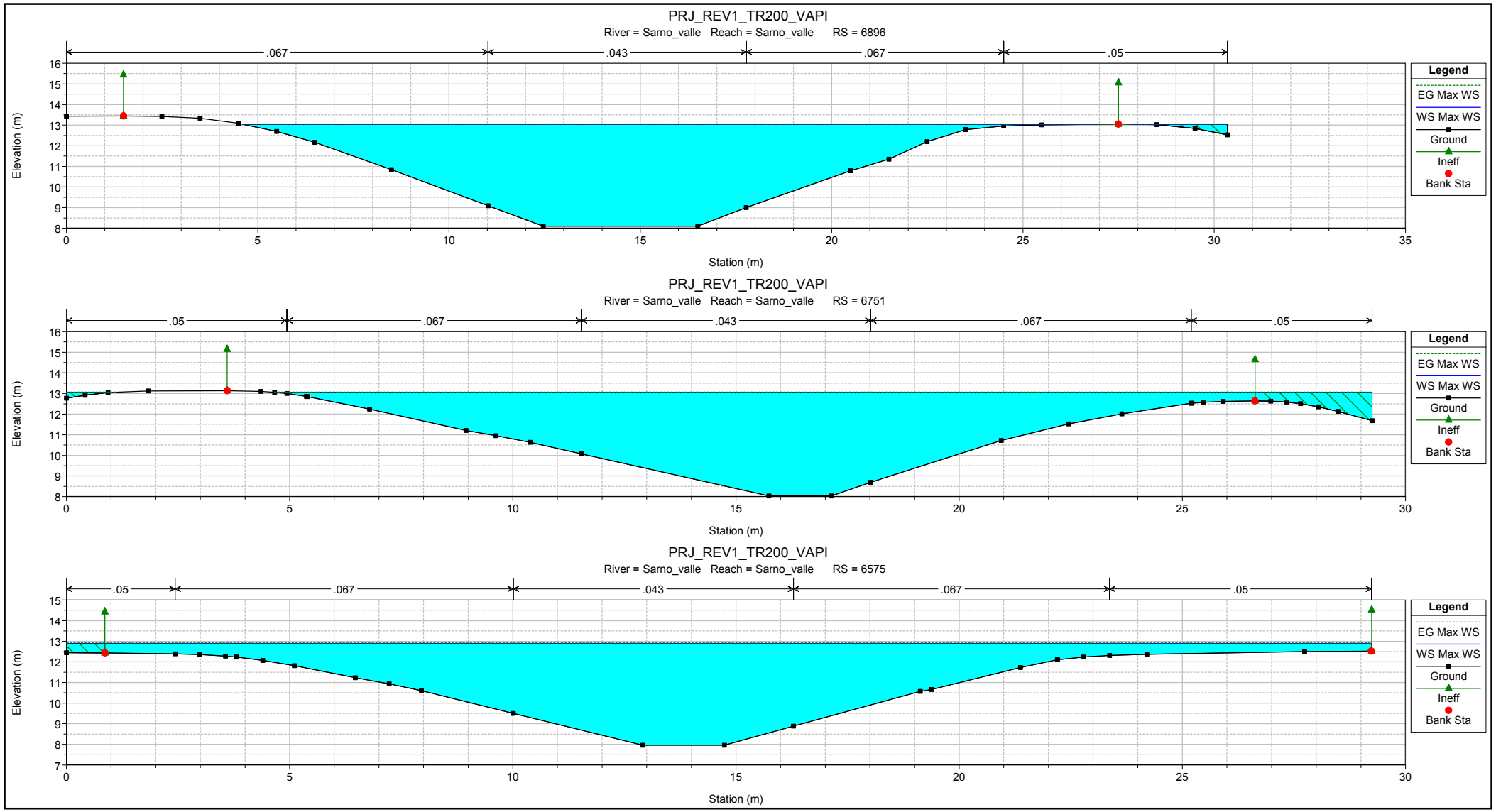

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8574
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8311
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8123
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

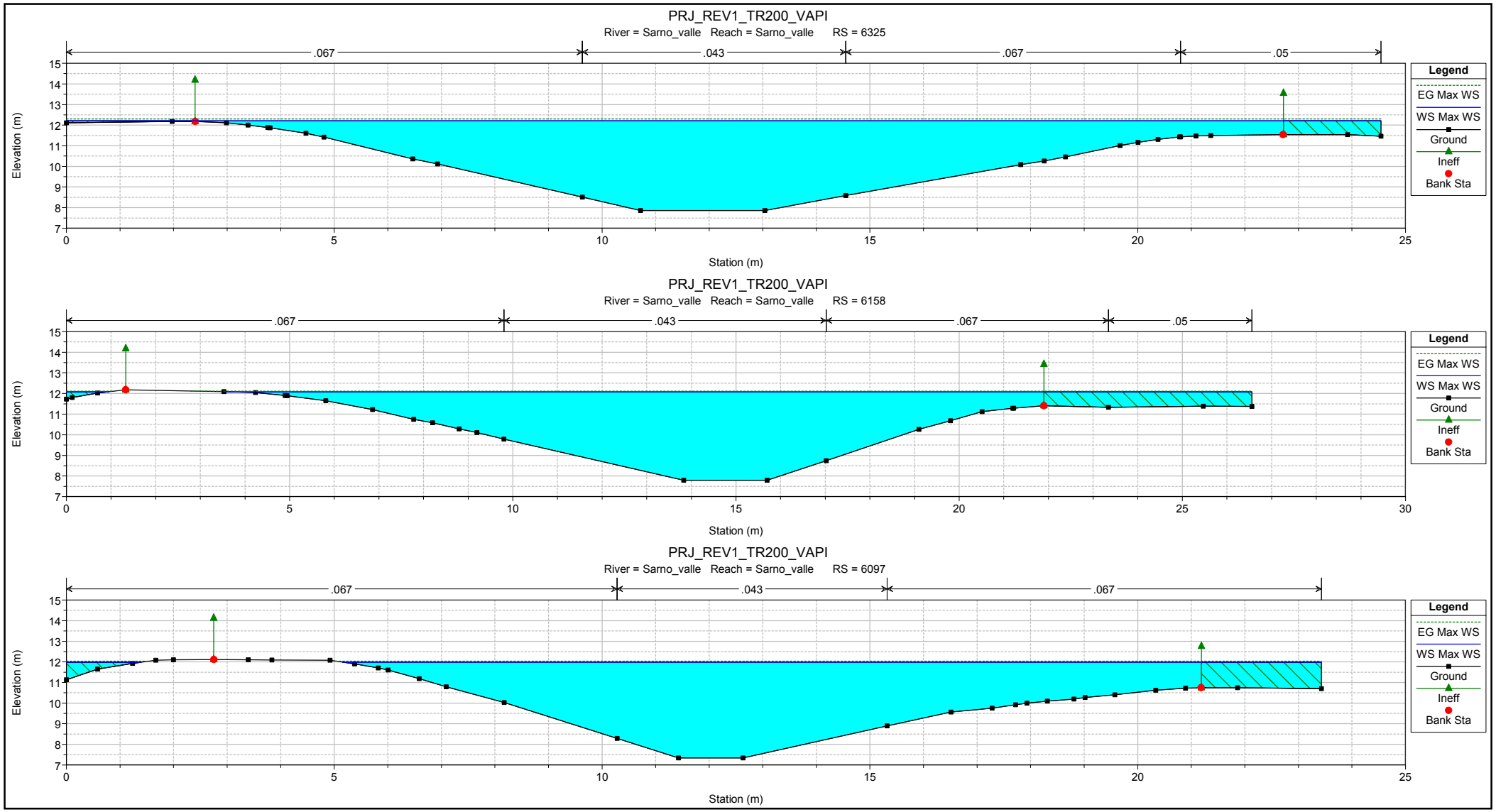

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7939
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7710
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7544
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

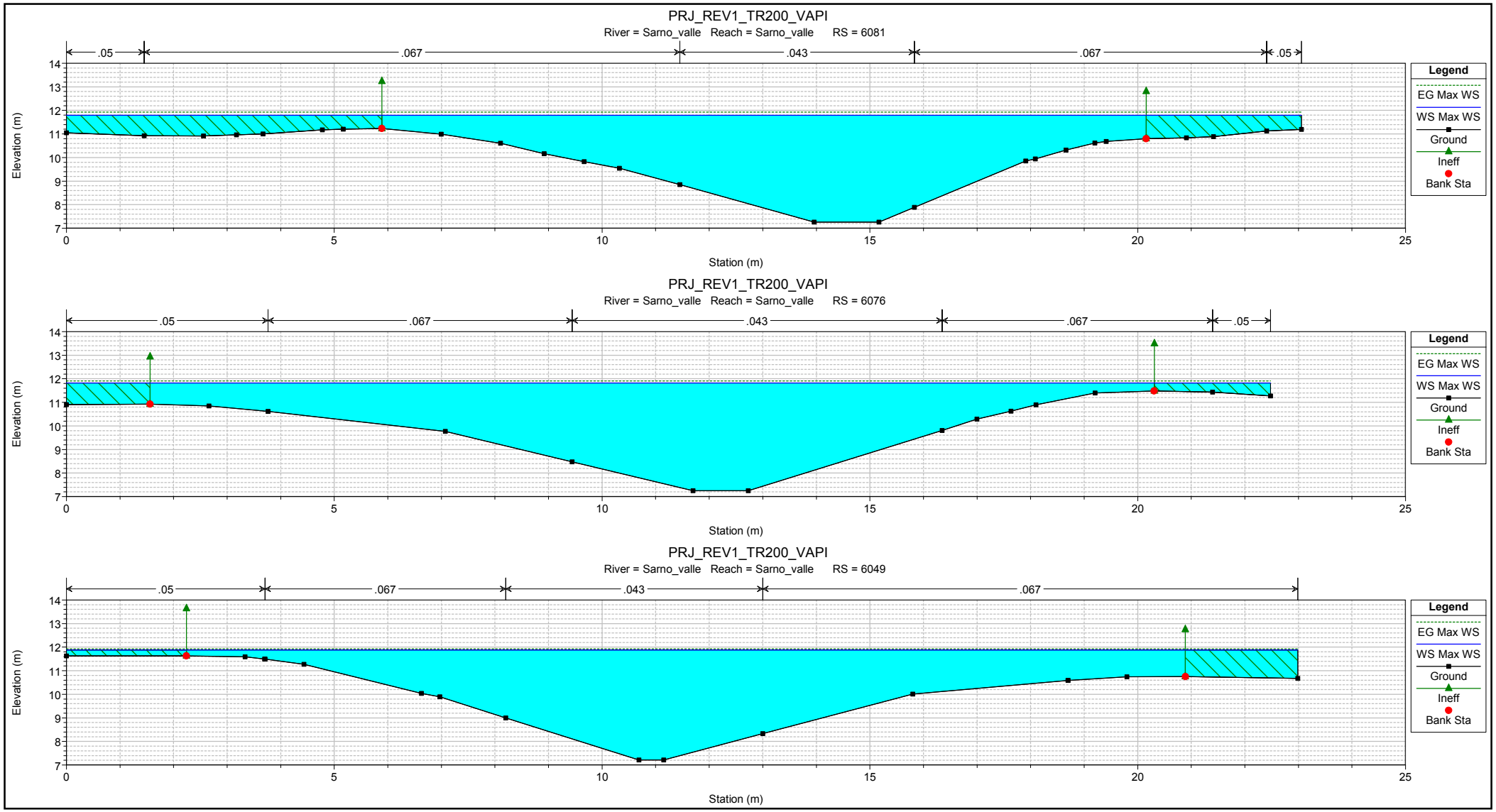

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7410
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7388
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

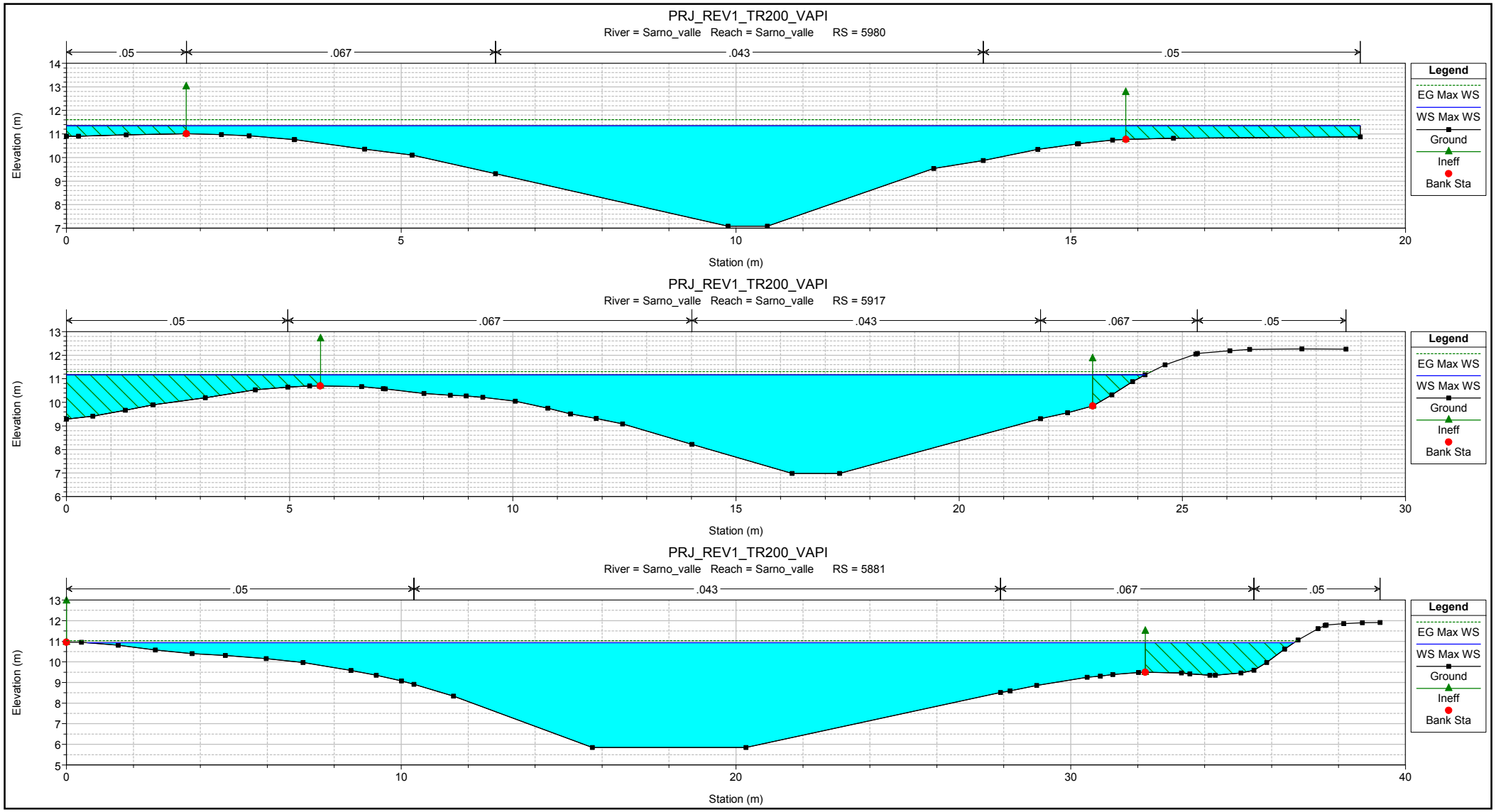

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7310
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

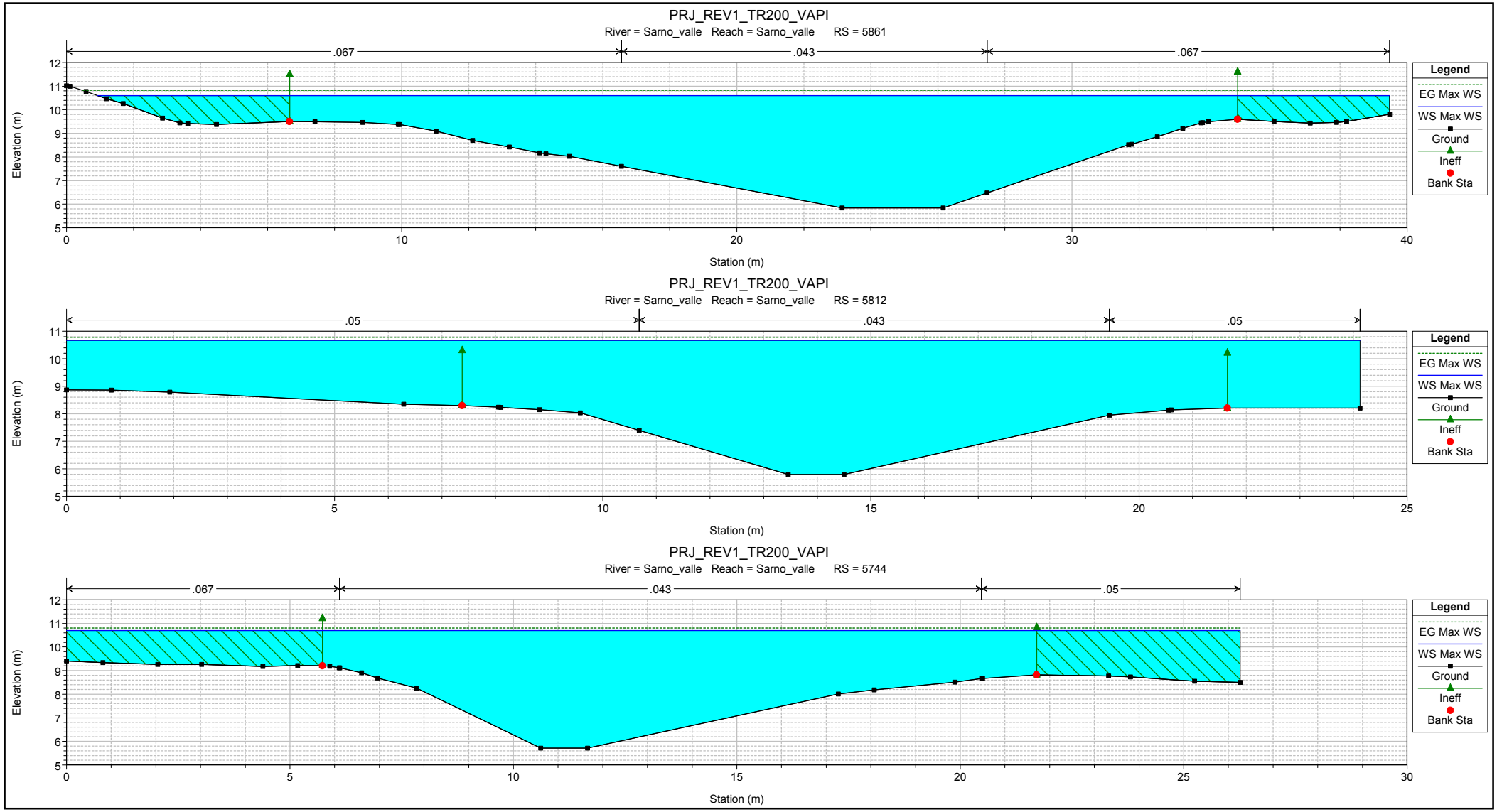

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7143
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7121
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7042
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

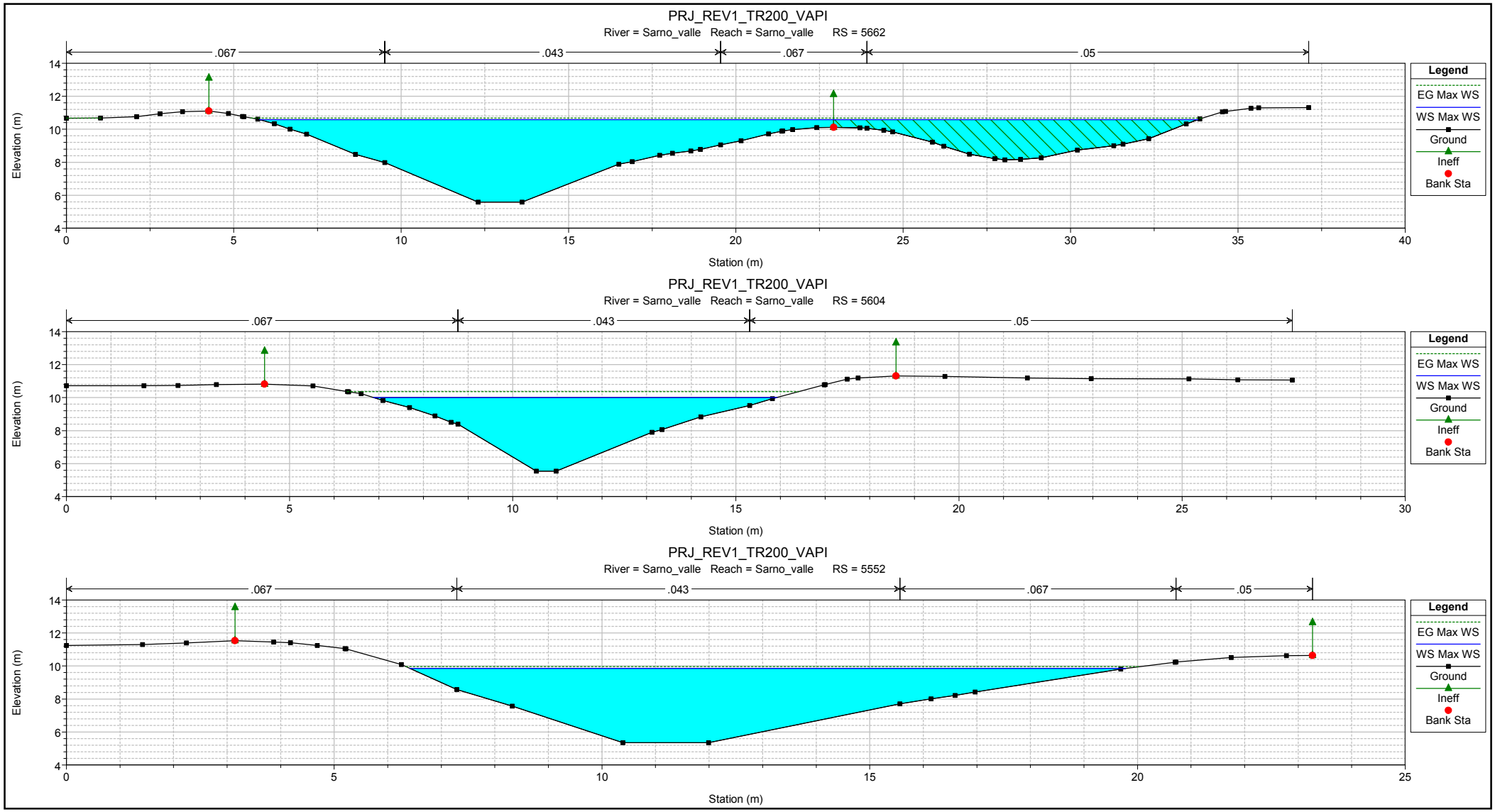

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6896
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6575
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

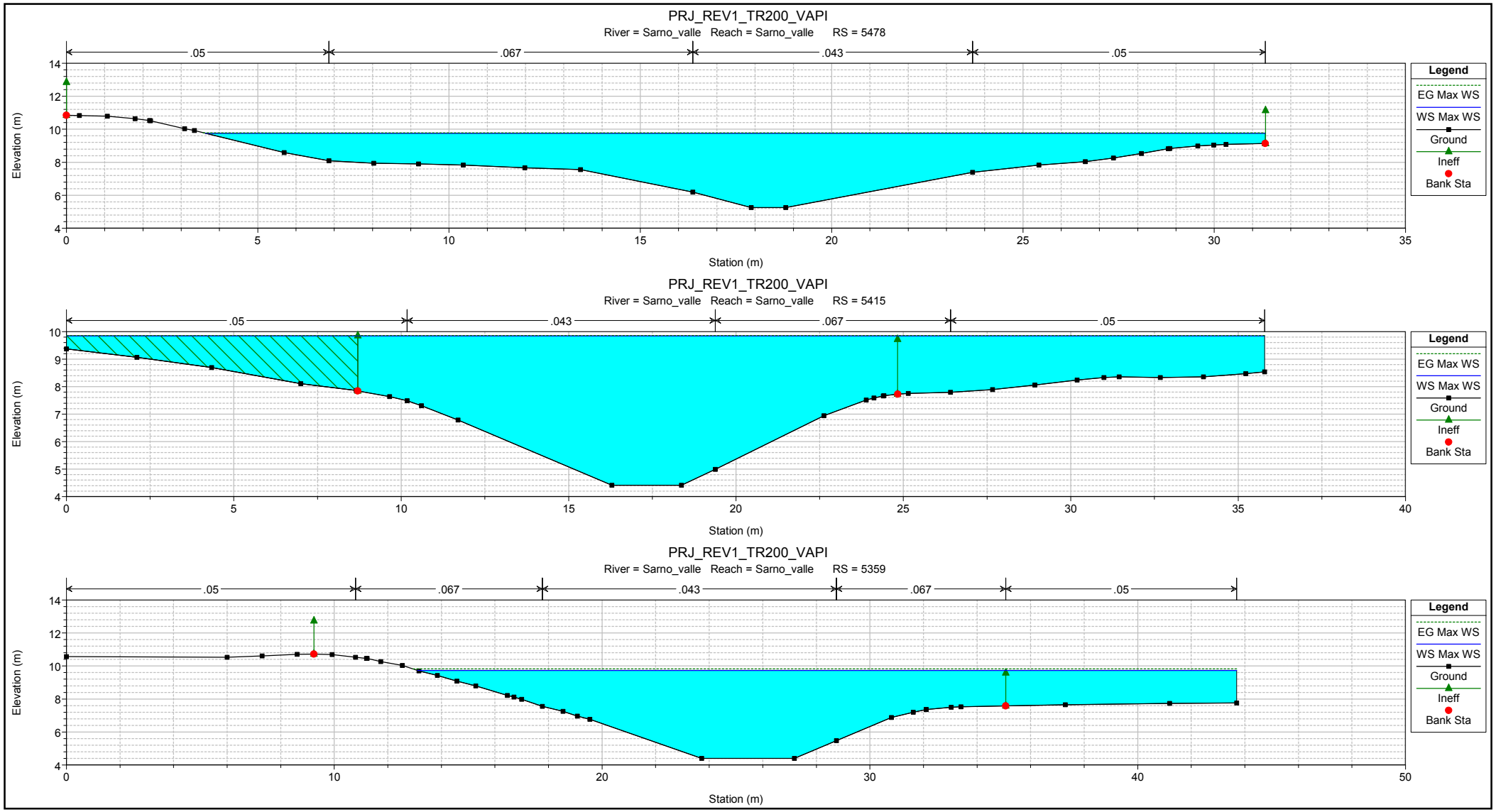

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6325
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6158
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6097
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

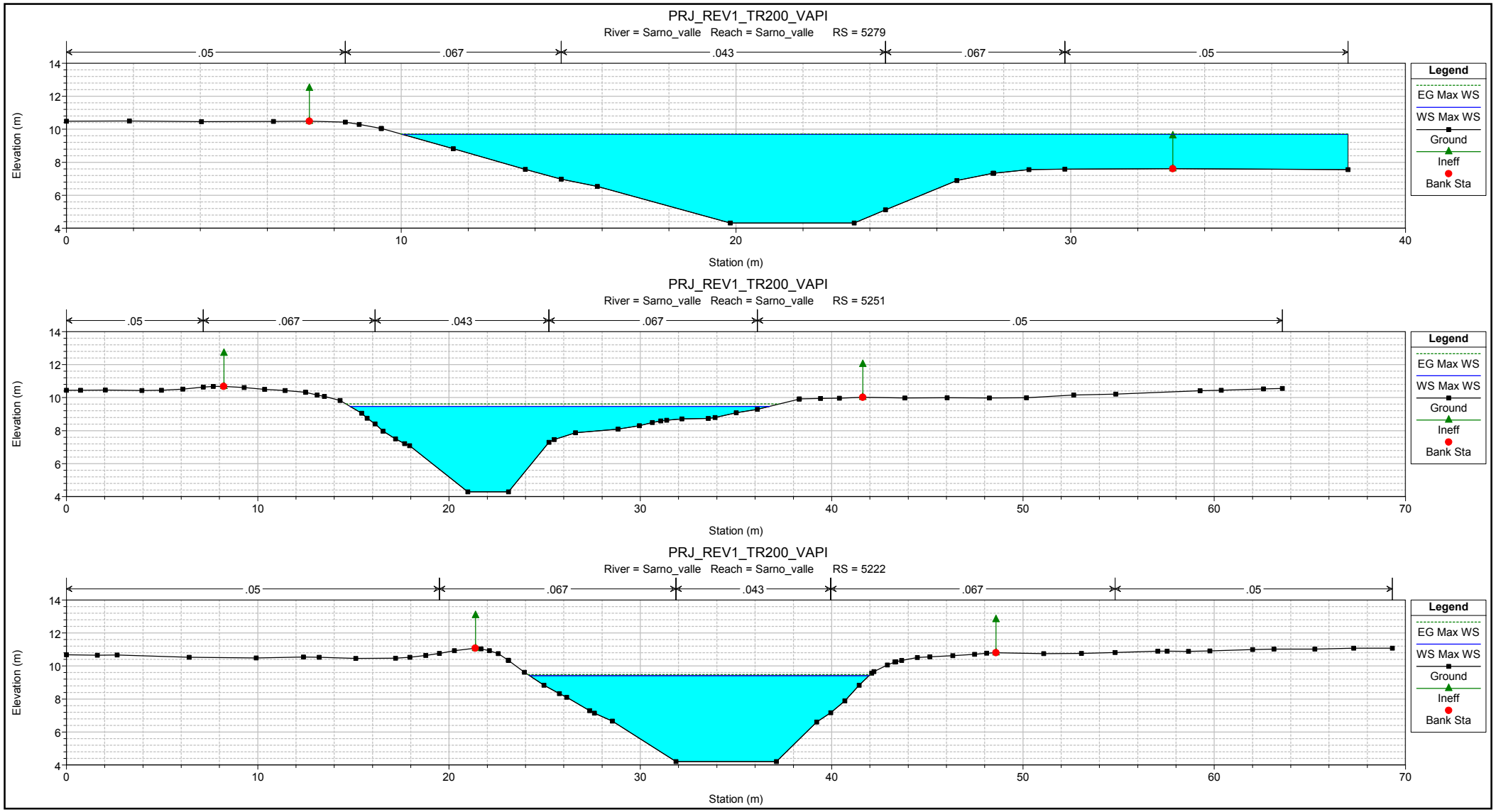

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6081
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6076
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6049
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

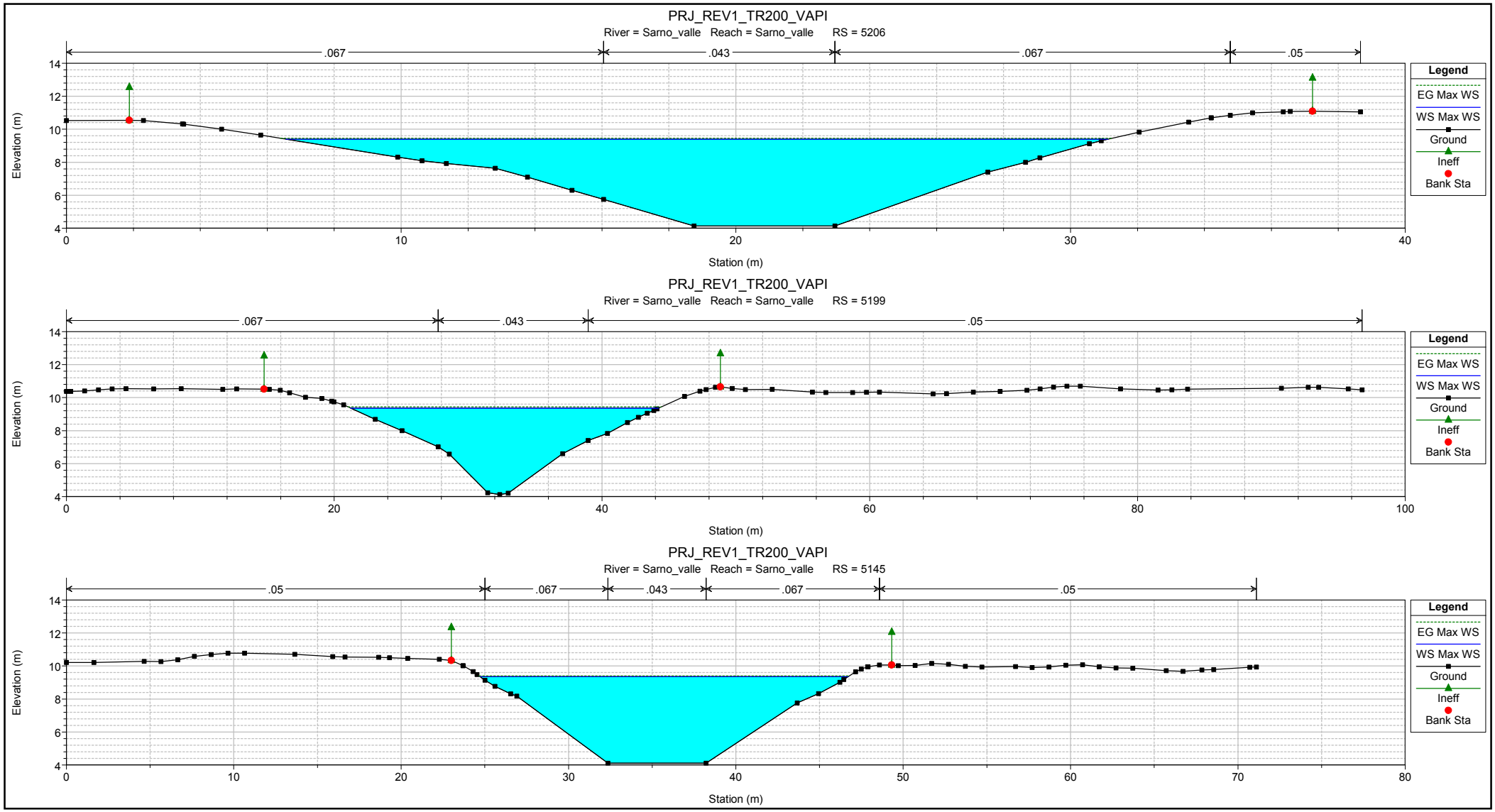

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5980
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5917
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5881
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

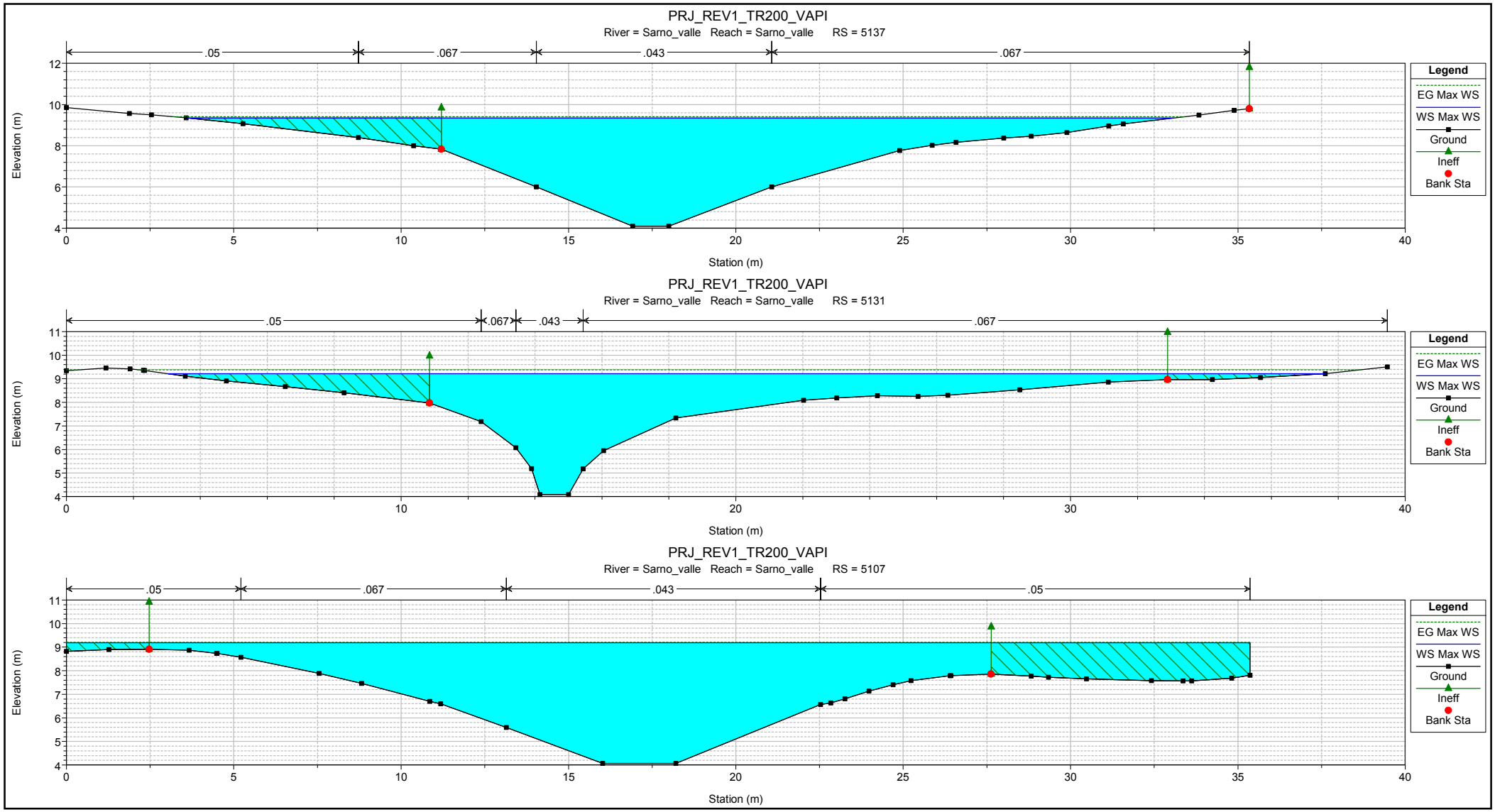

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5861
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5812
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5744
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

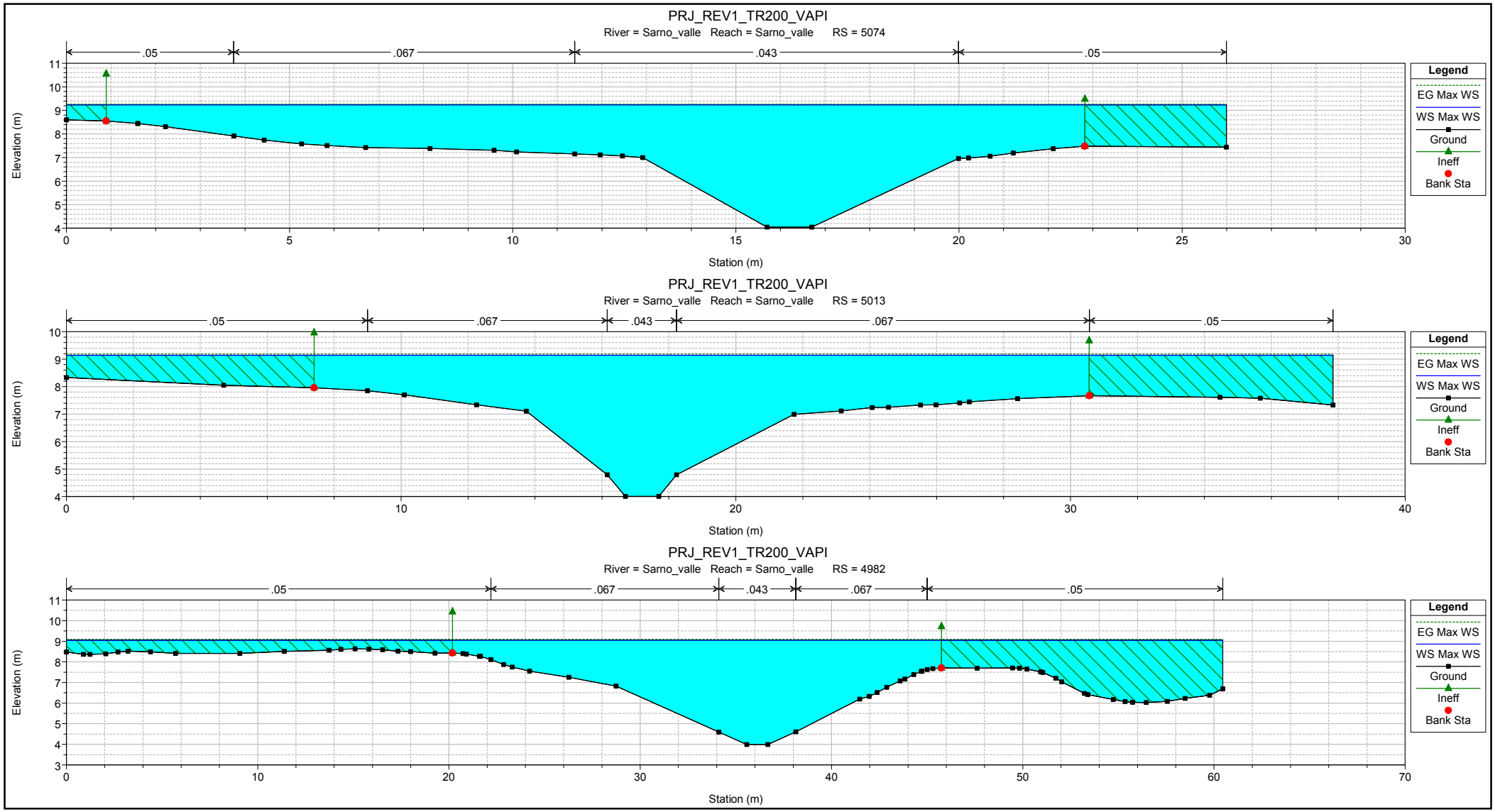

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5662
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5604
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5552
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

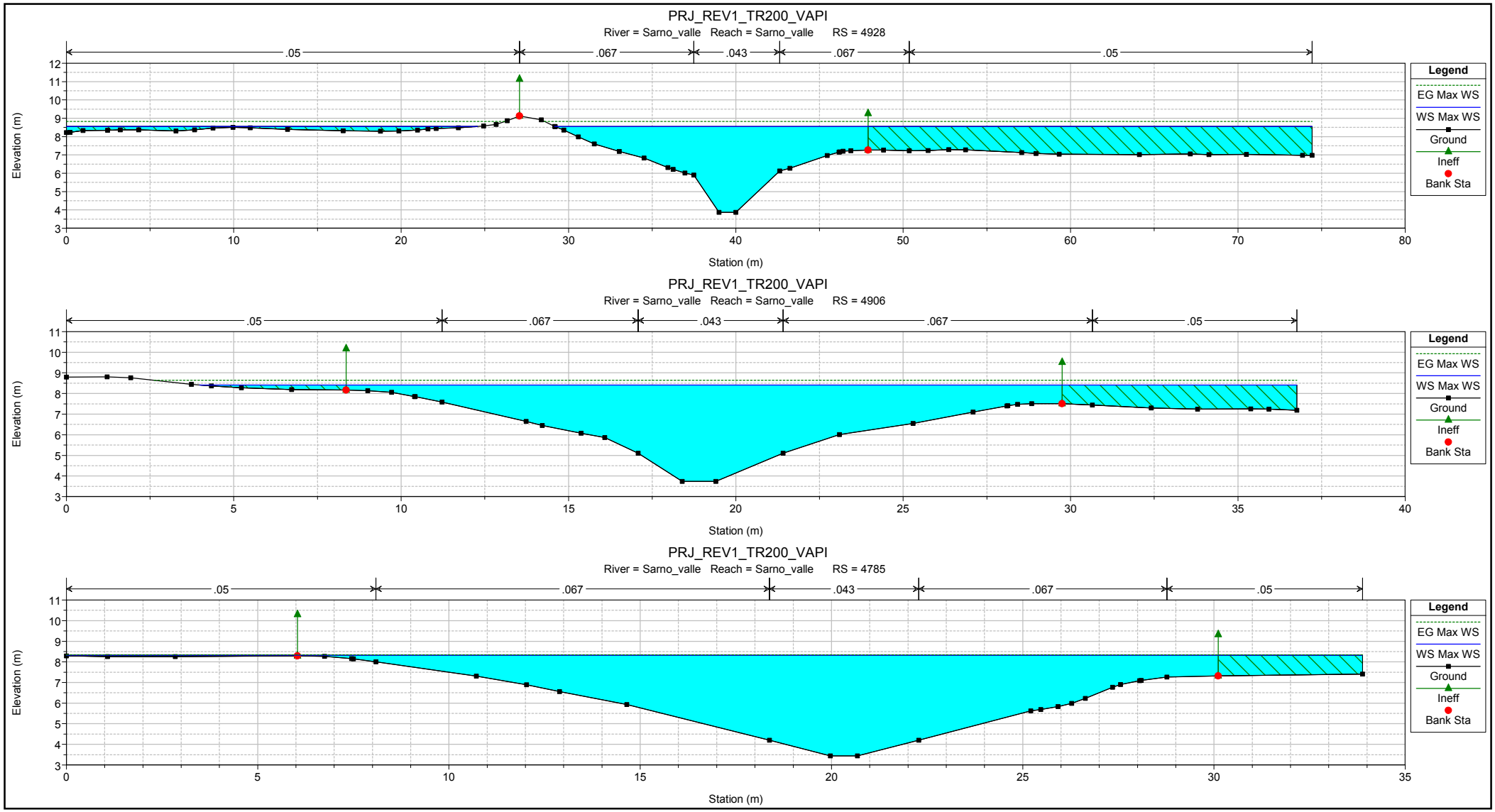

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5478
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5415
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5359
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

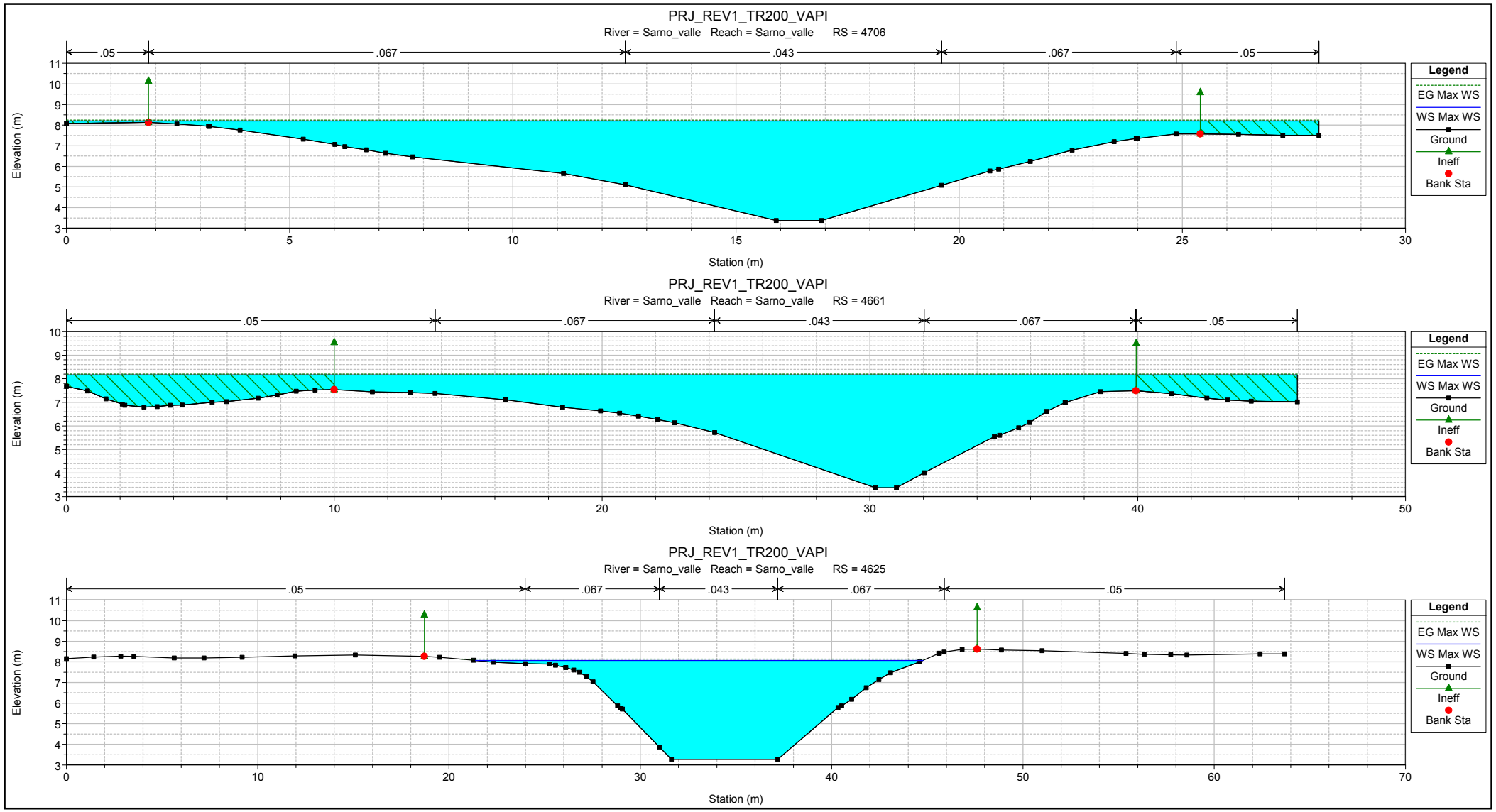

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5279
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5251
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5222
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

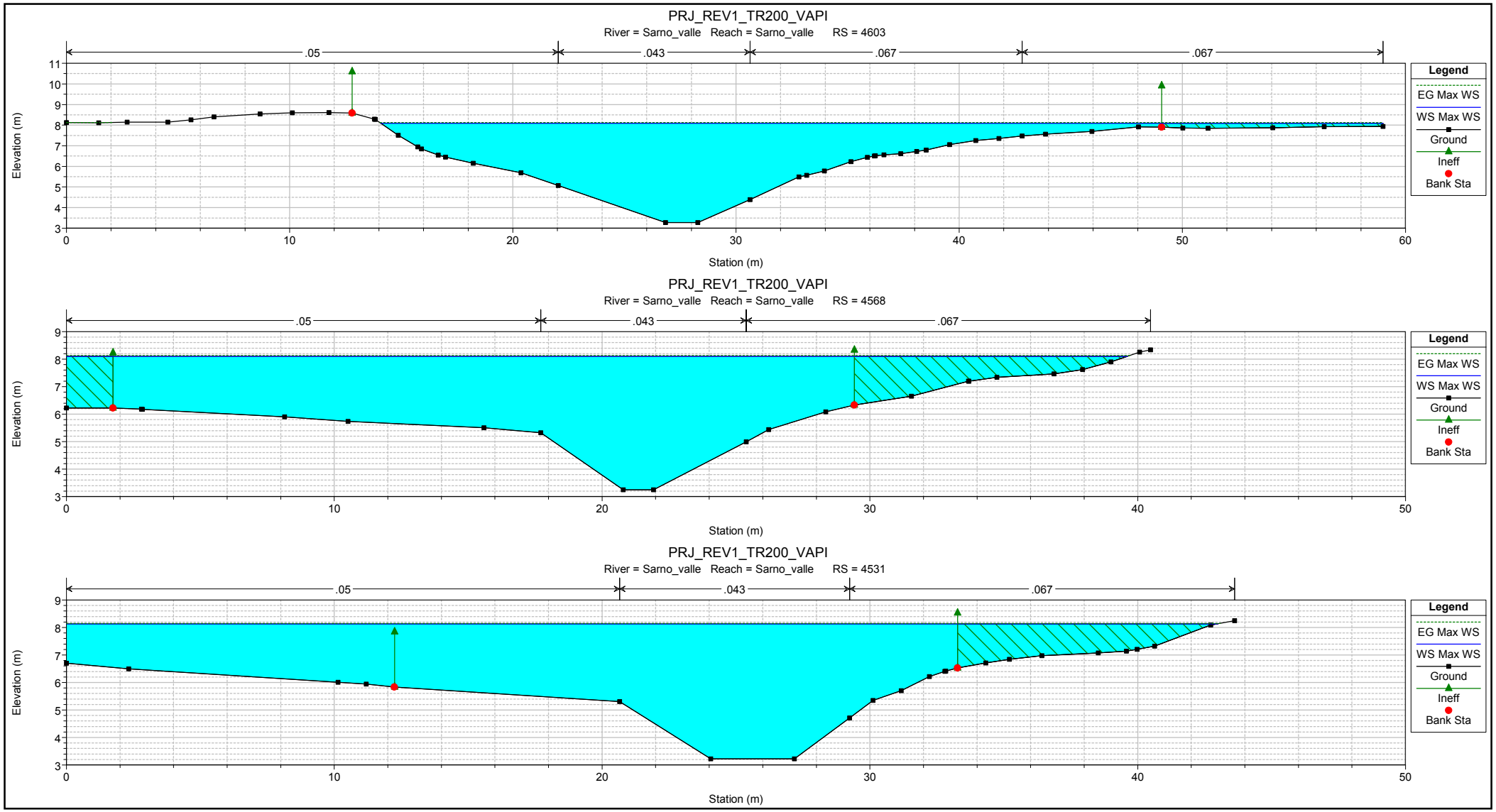

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5206
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5199
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5145
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

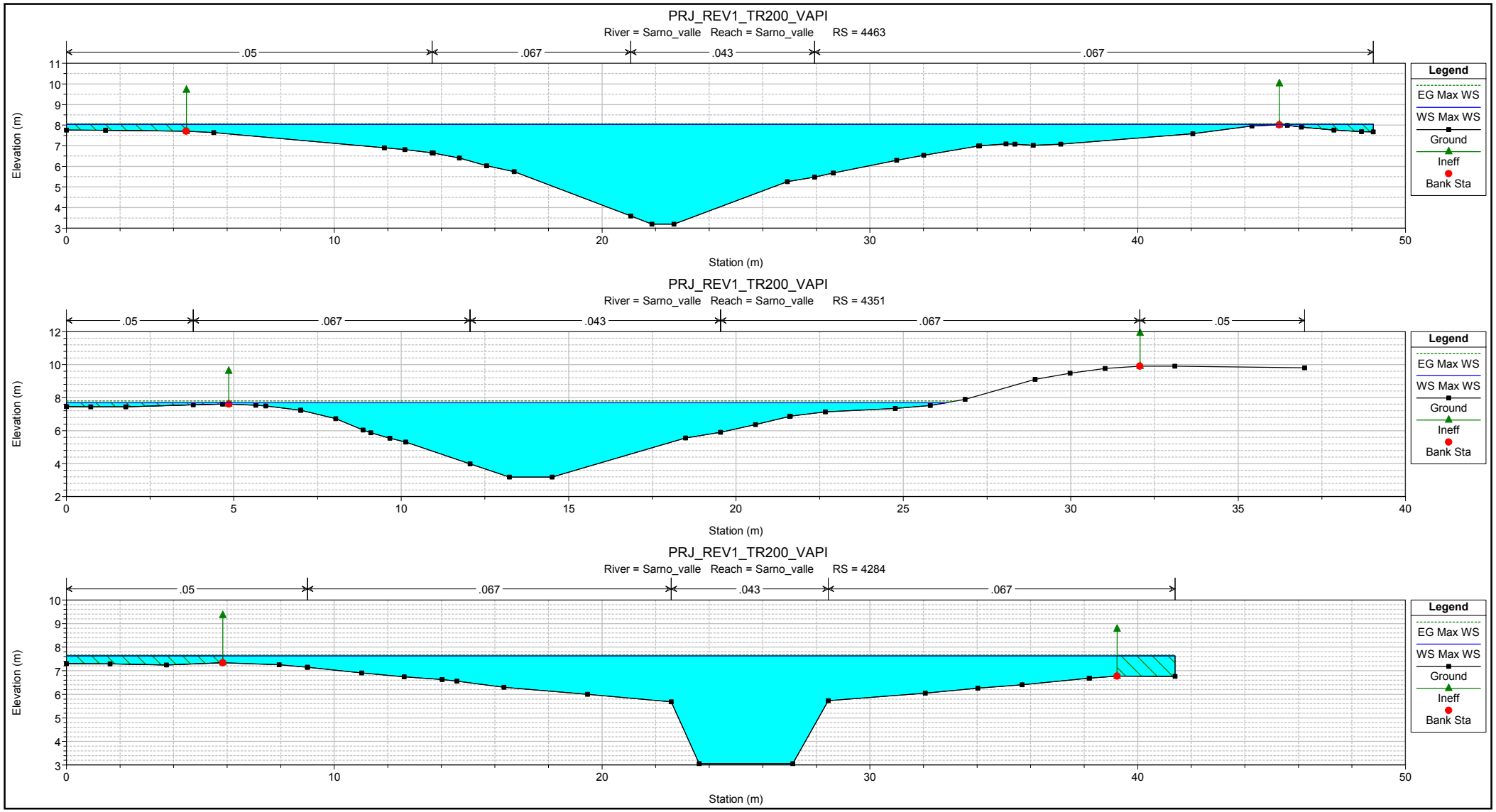

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5137
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5131
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5107
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

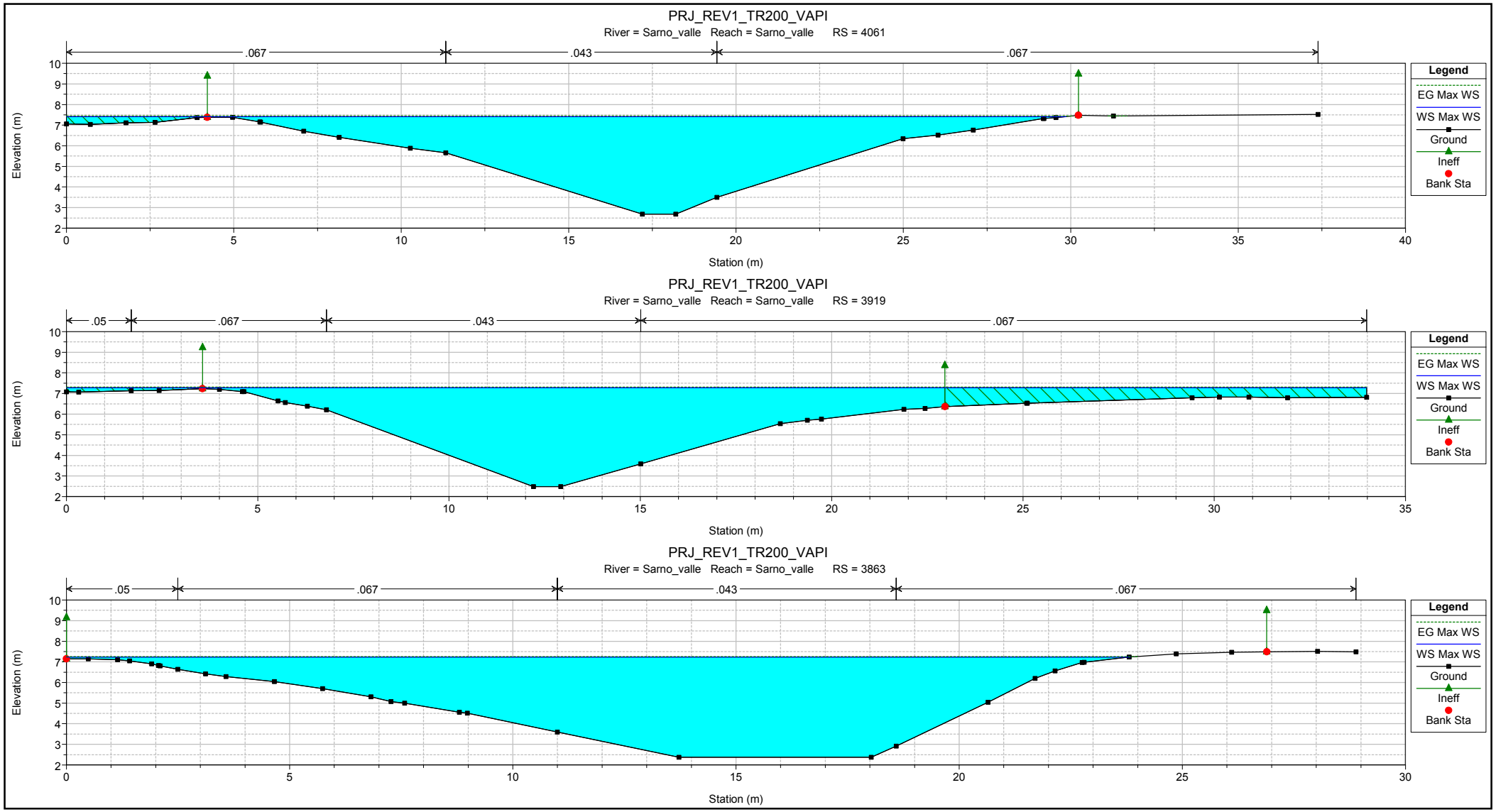

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5074
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5013
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4982
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

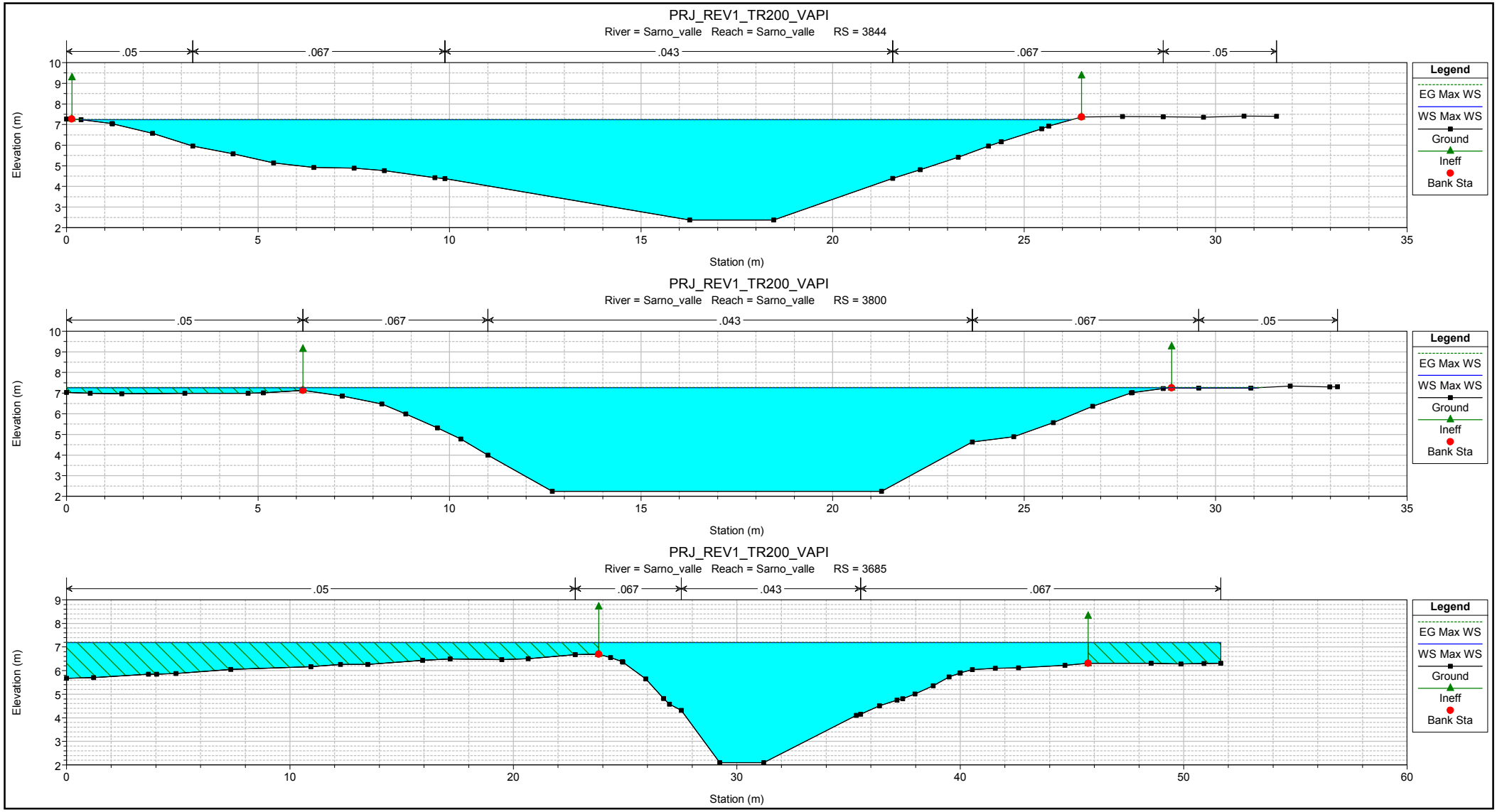

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4928
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4906
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4785
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

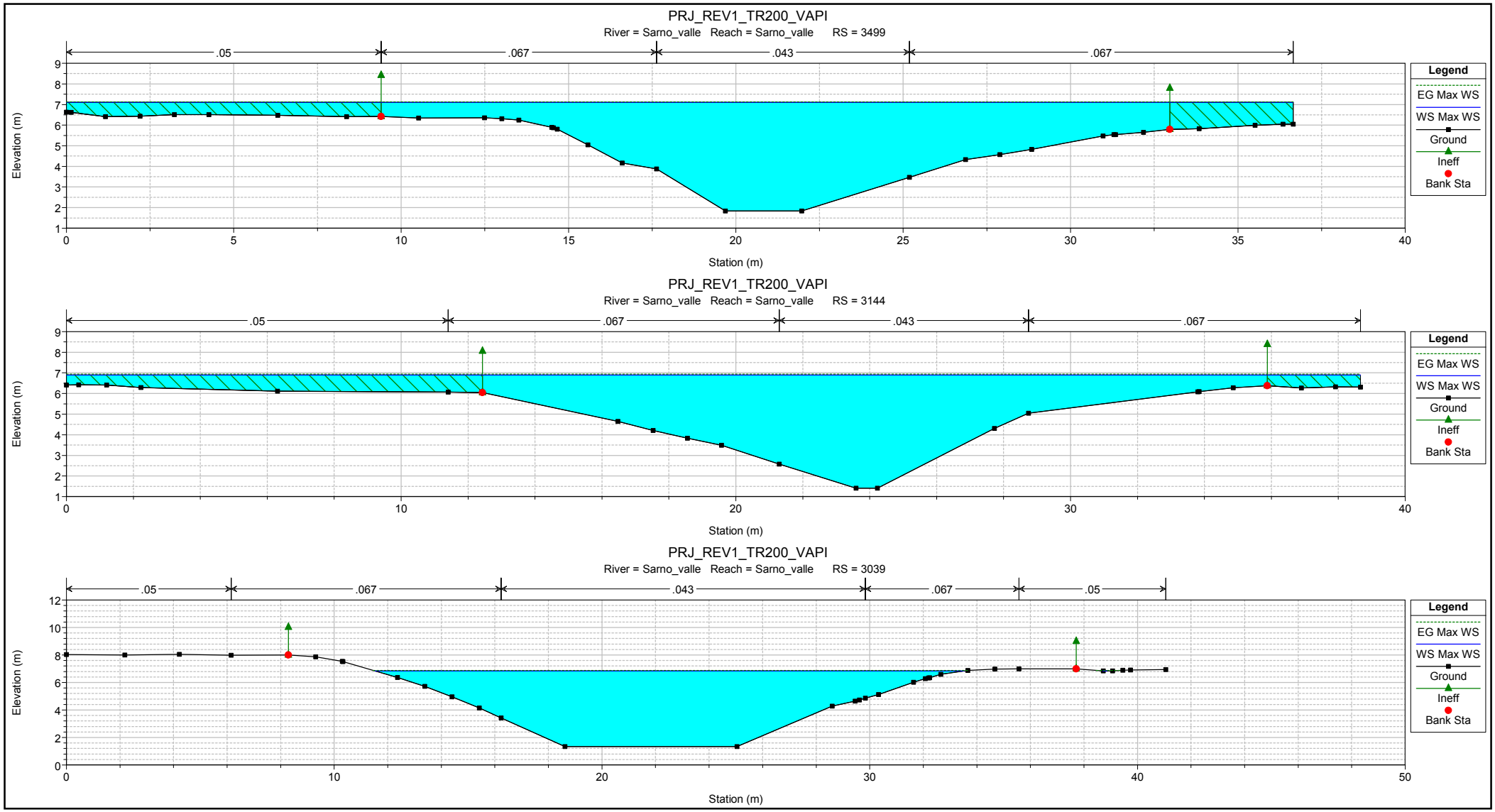

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4706
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4661
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4625
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

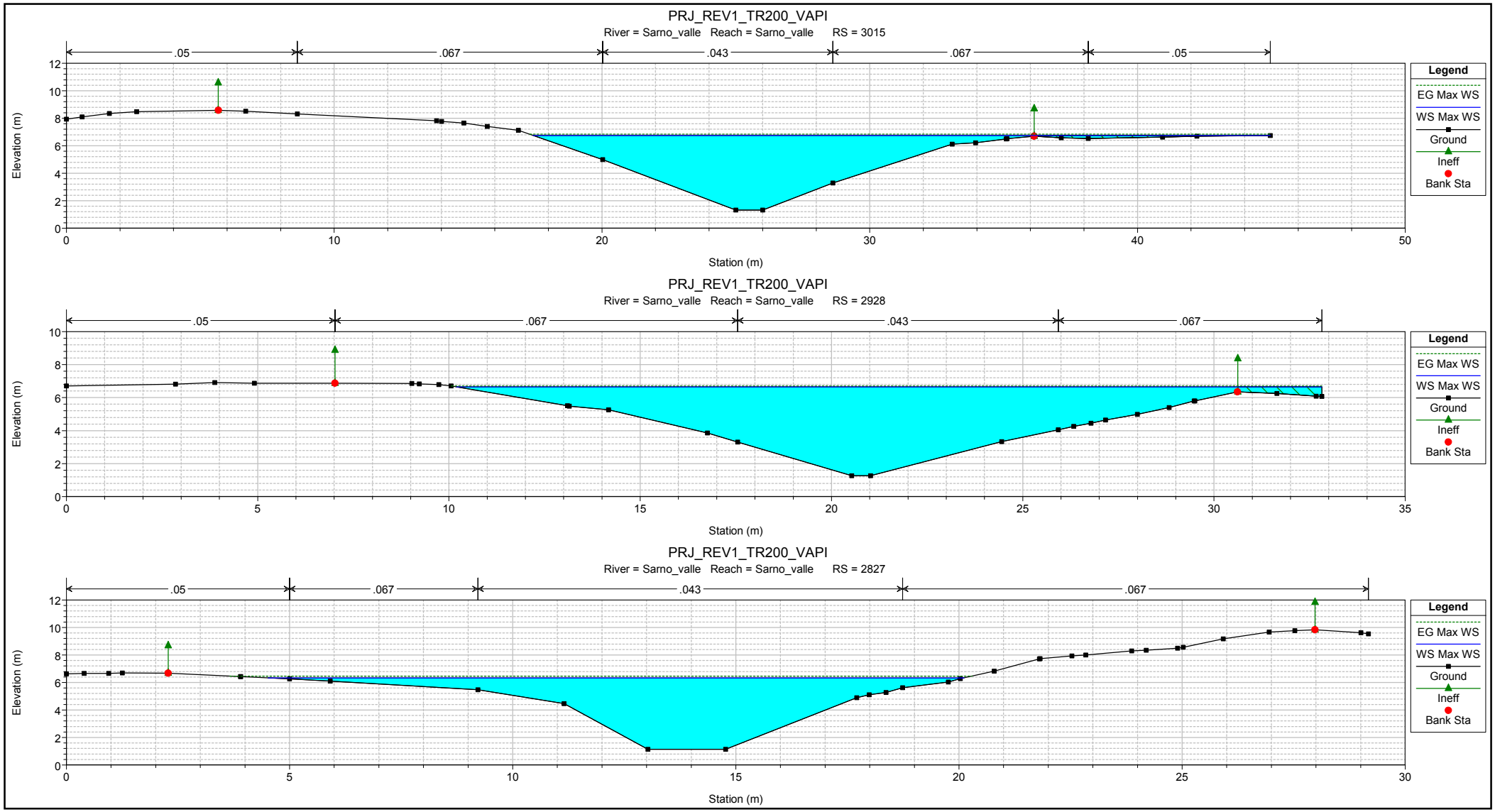

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4603
.05
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4568
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4531
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

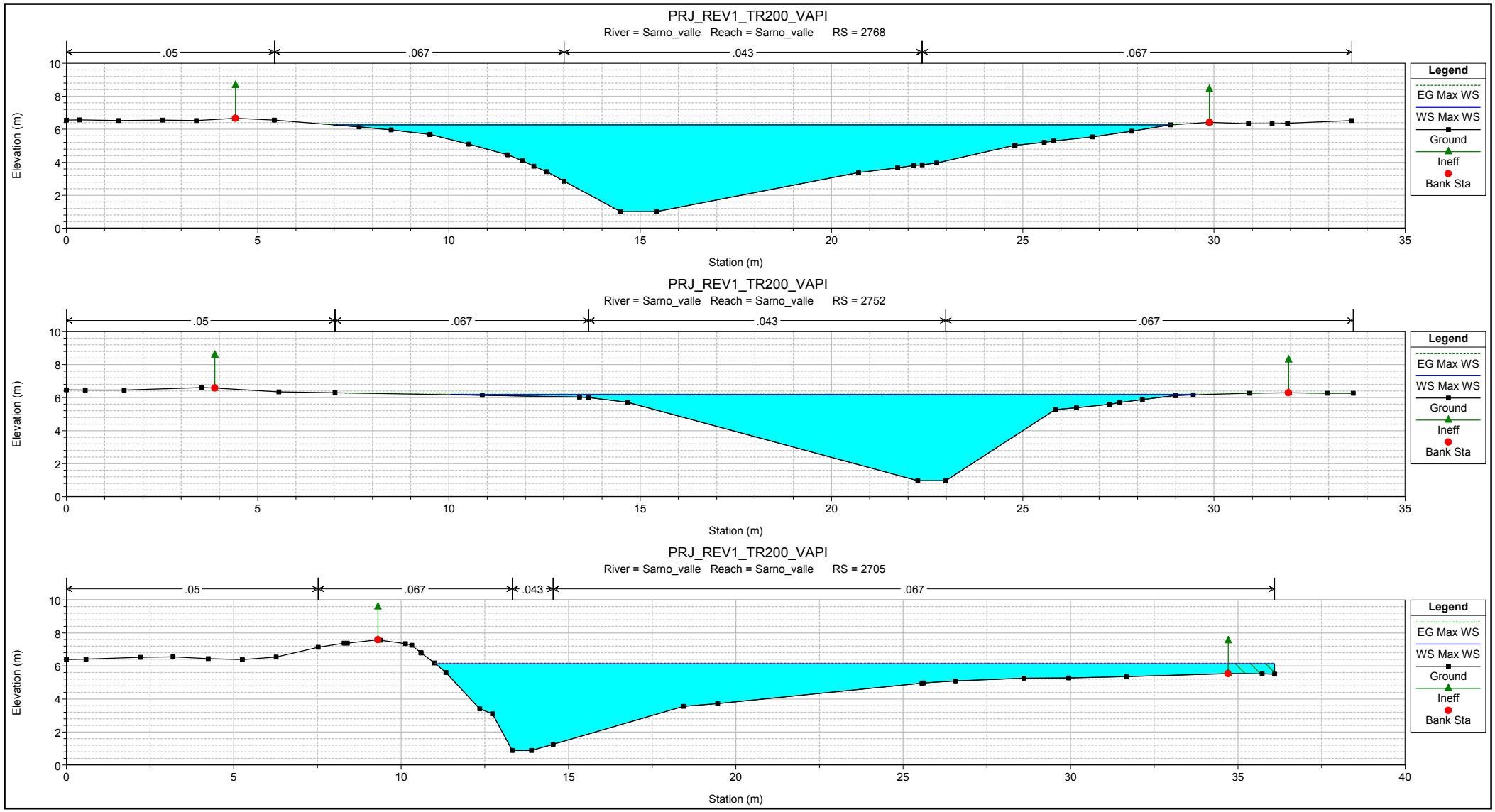

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4463
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4284
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

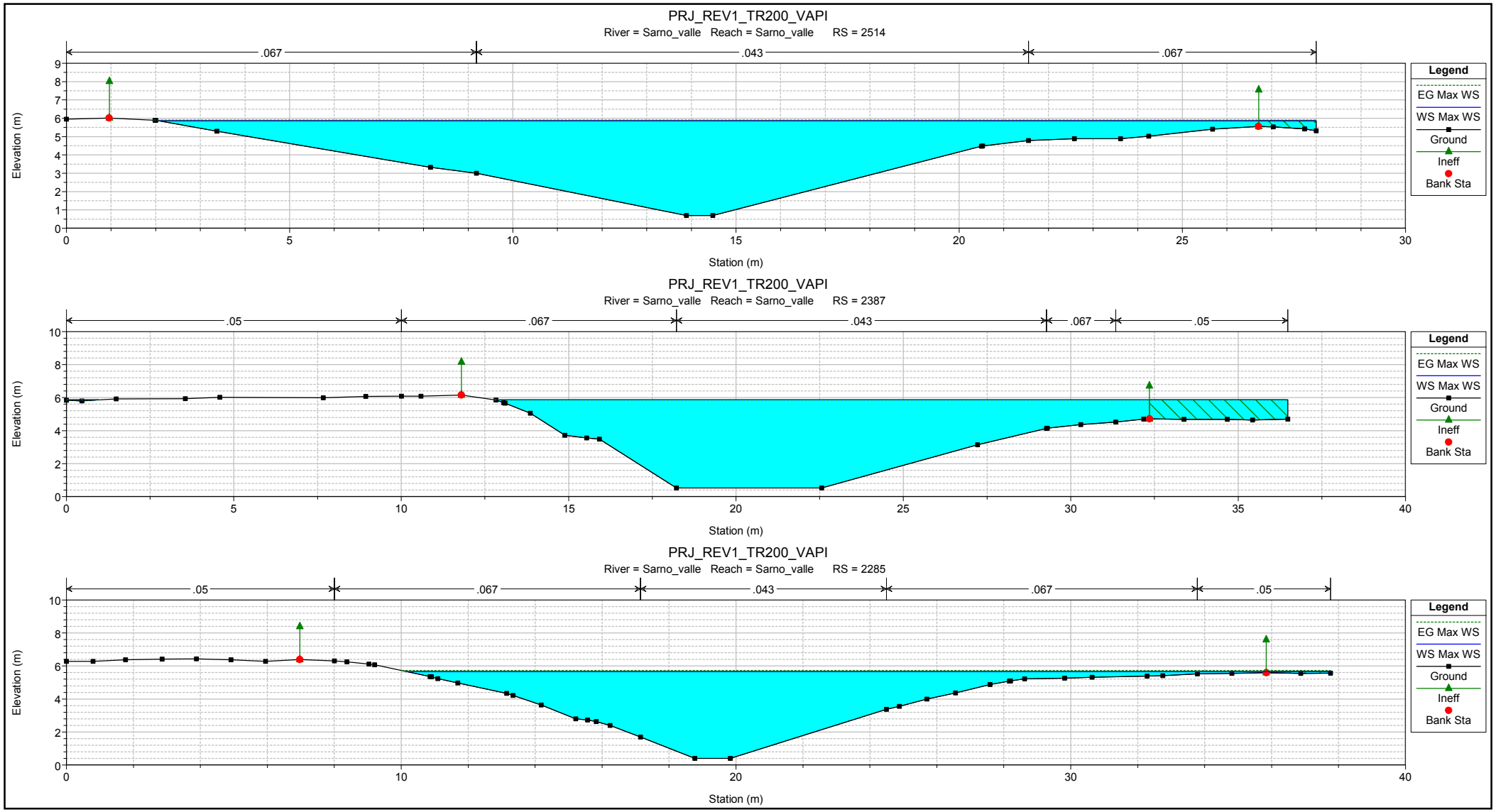

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4061
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3919
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3863
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

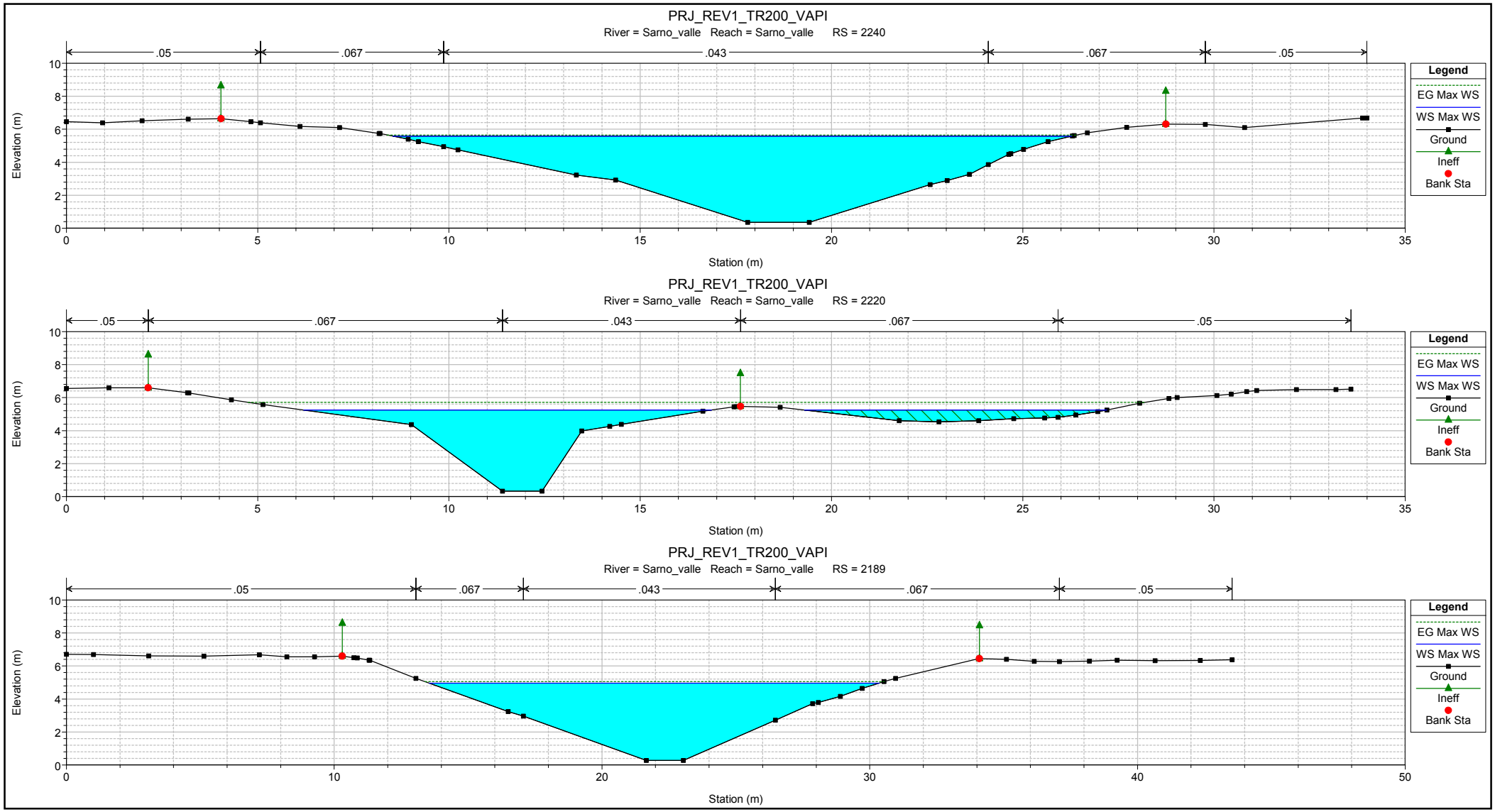

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3844
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3800
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3685
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

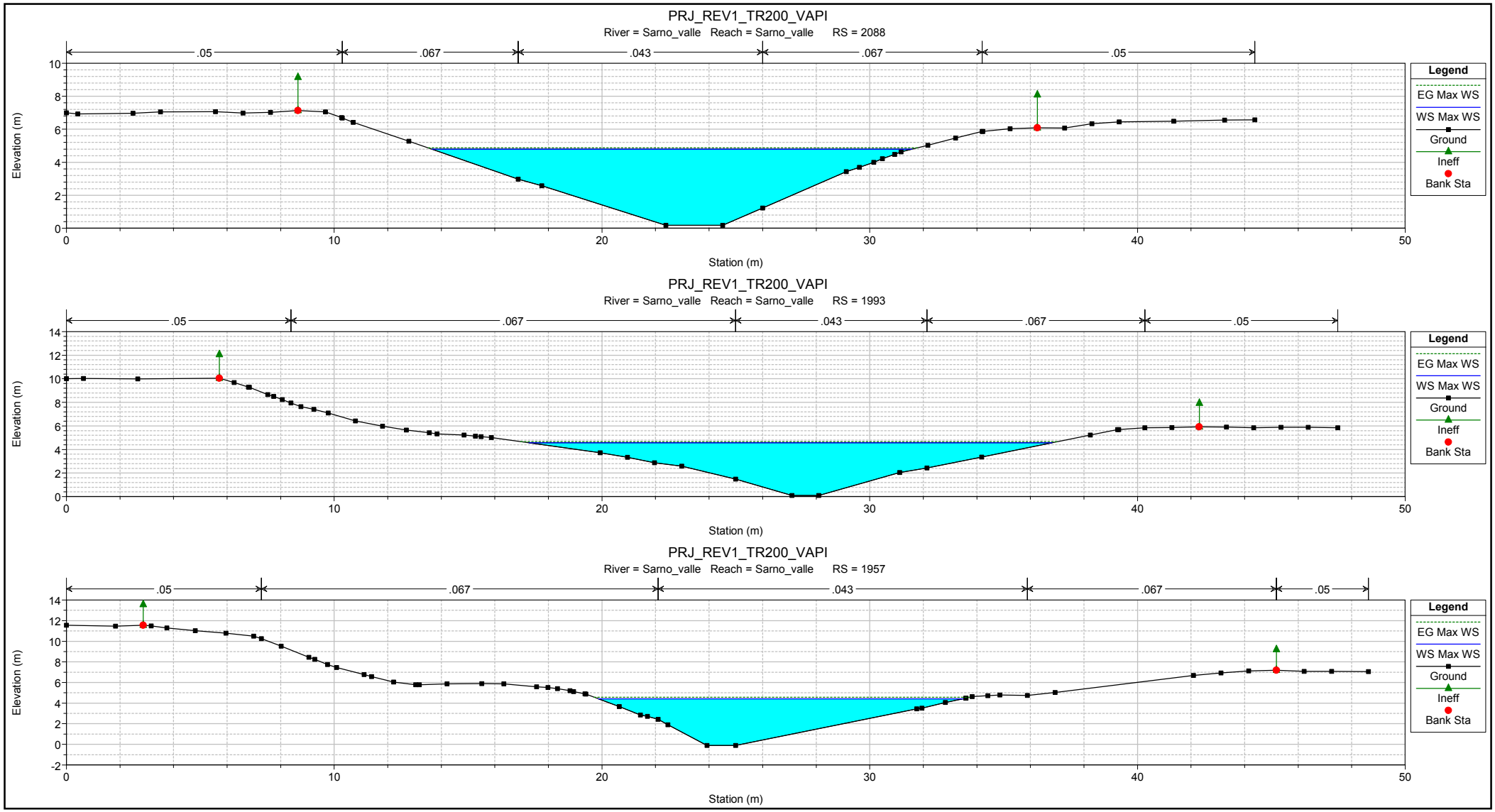

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3499
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3144
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3039
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

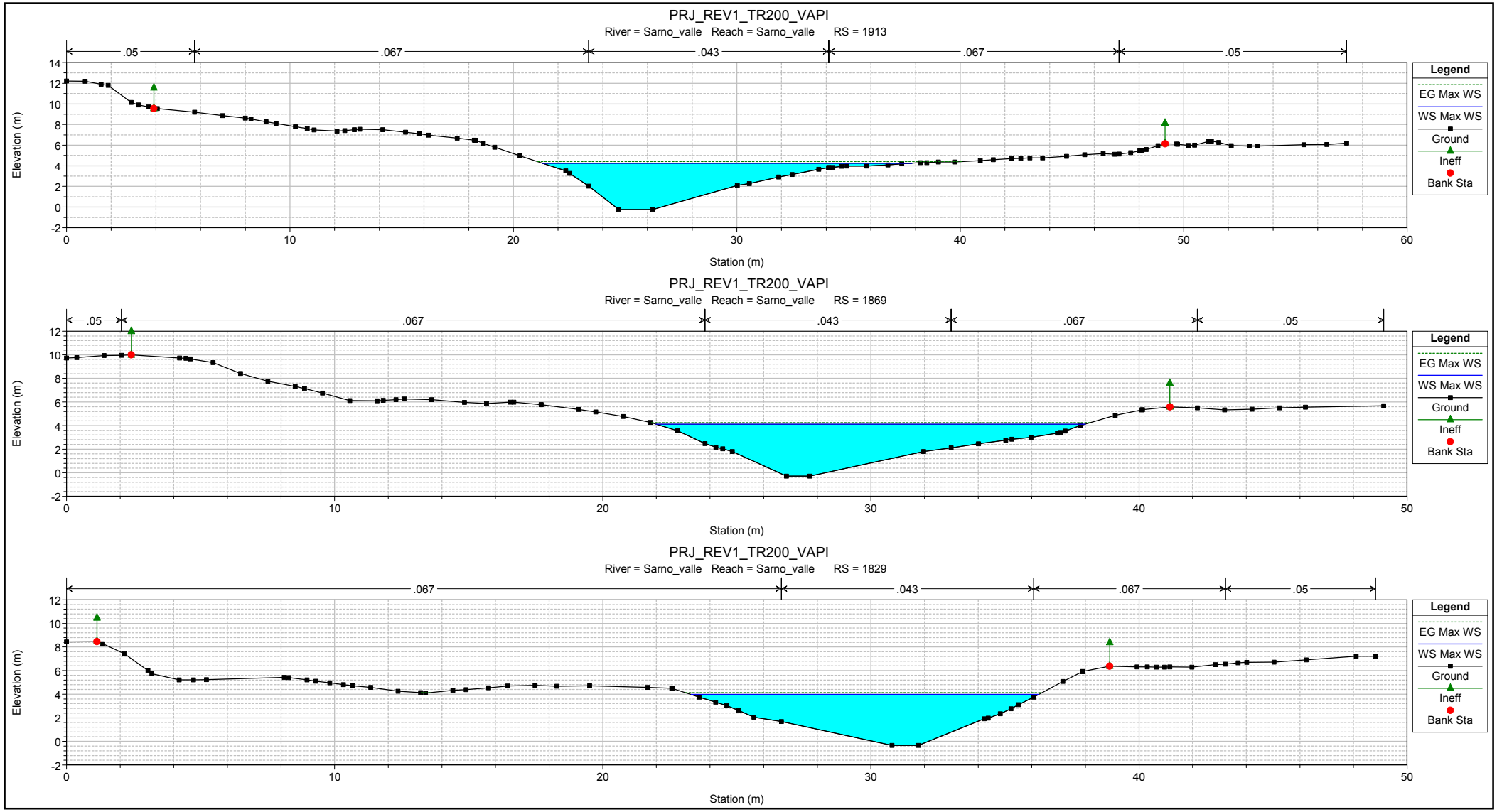

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3015
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2928
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2827
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

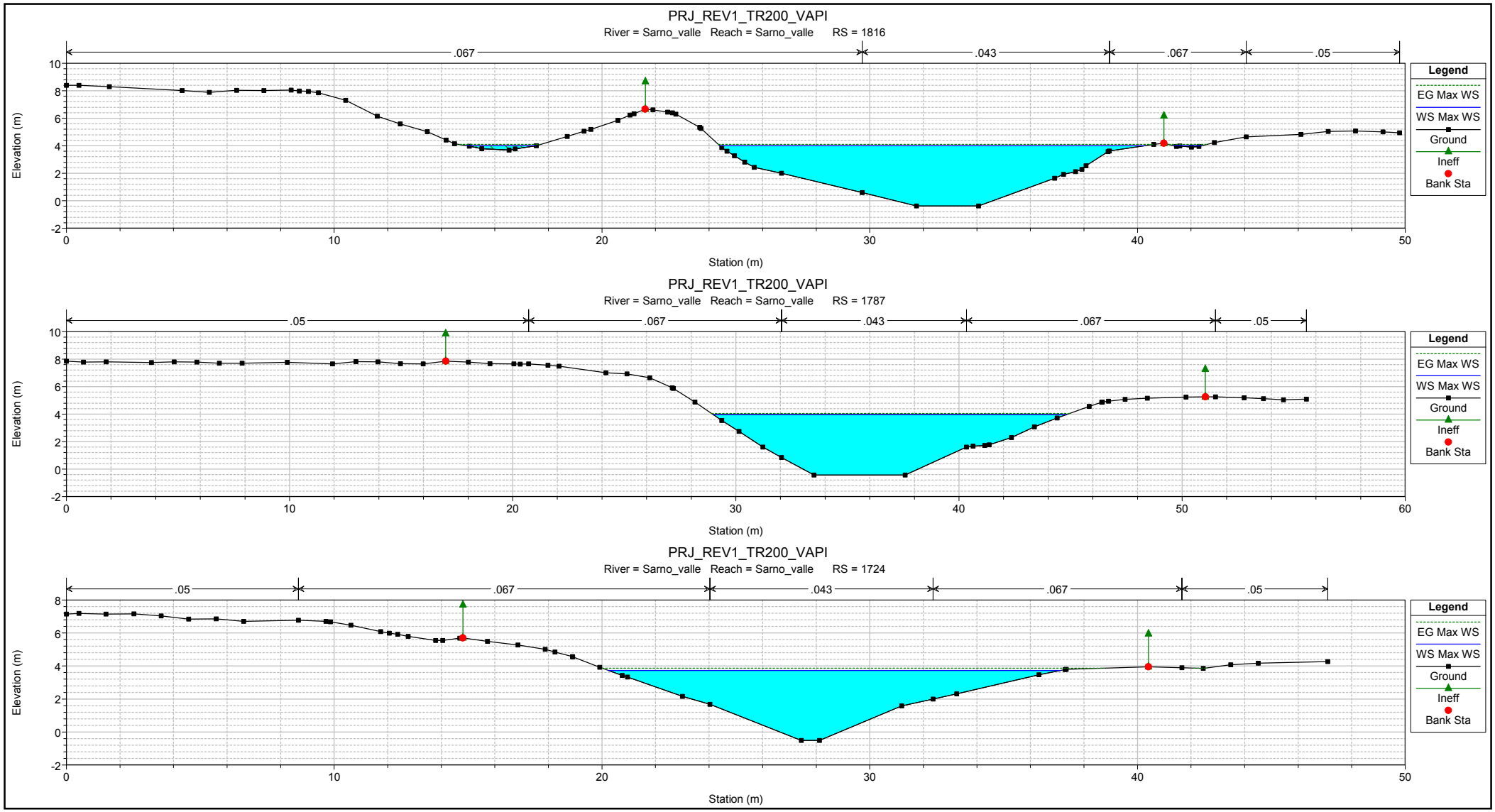

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2768
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2752
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2705
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

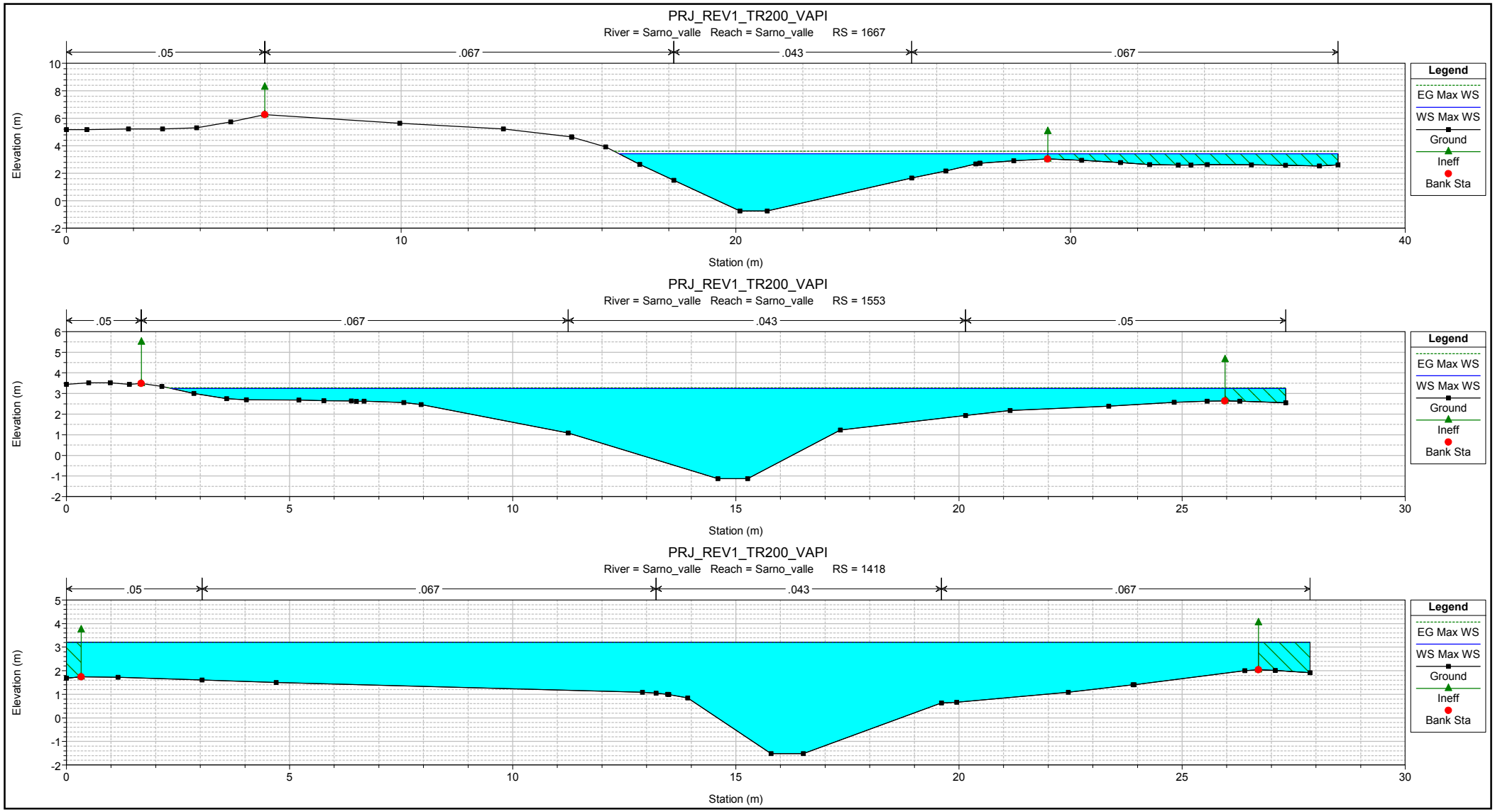

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2514
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2387
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2285
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

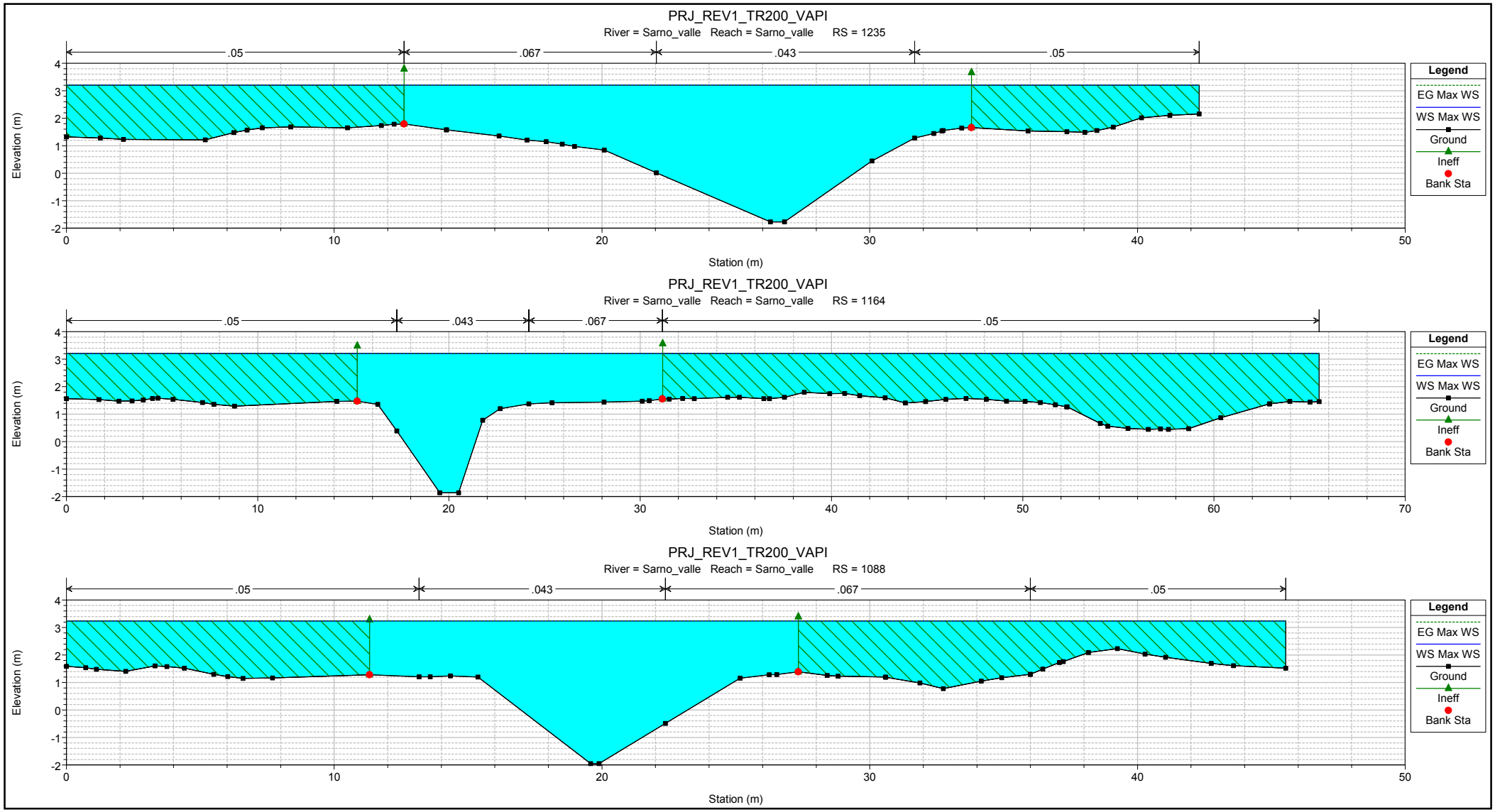

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2240
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2189
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

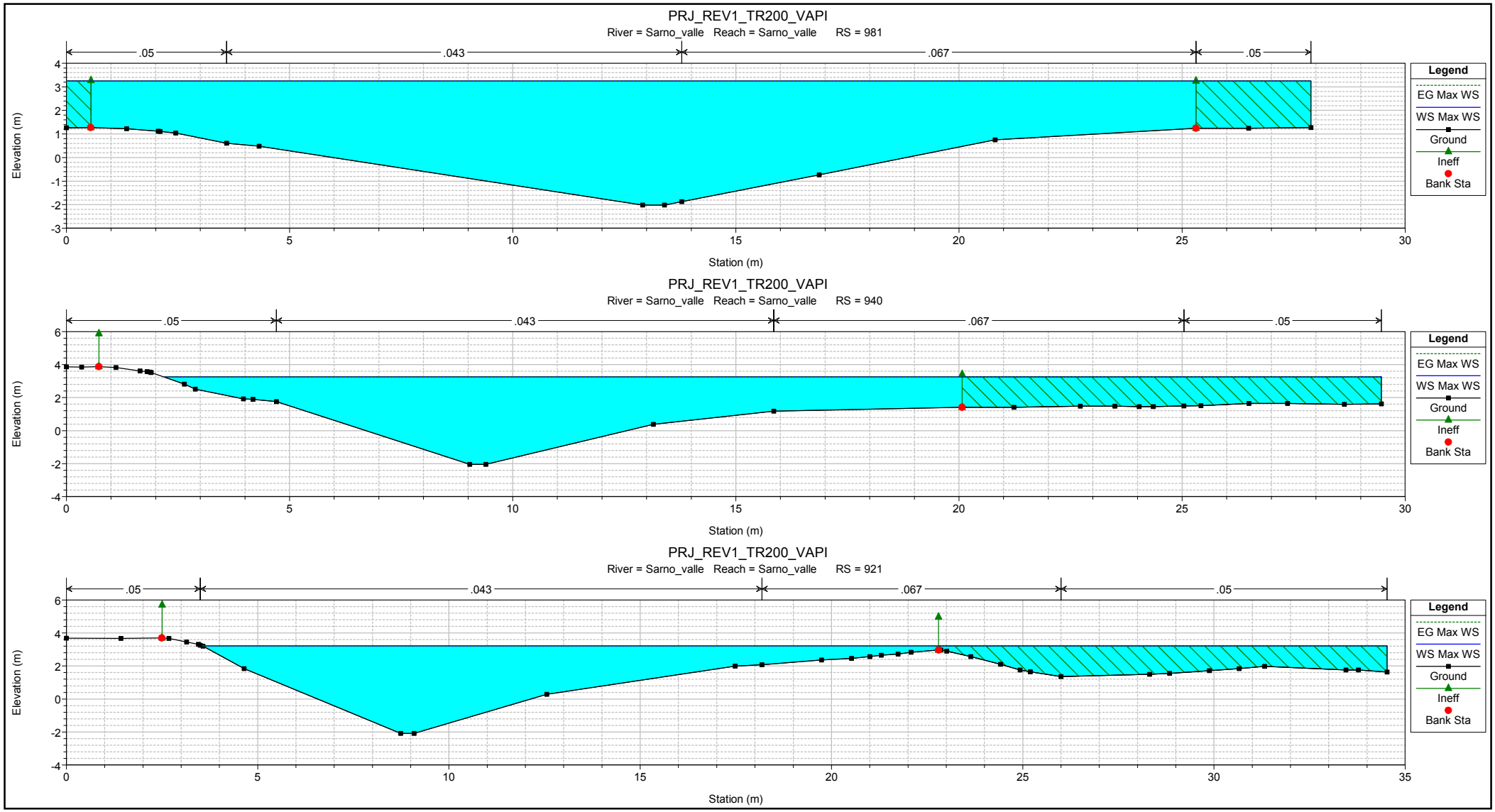

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2088
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1993
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1957
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

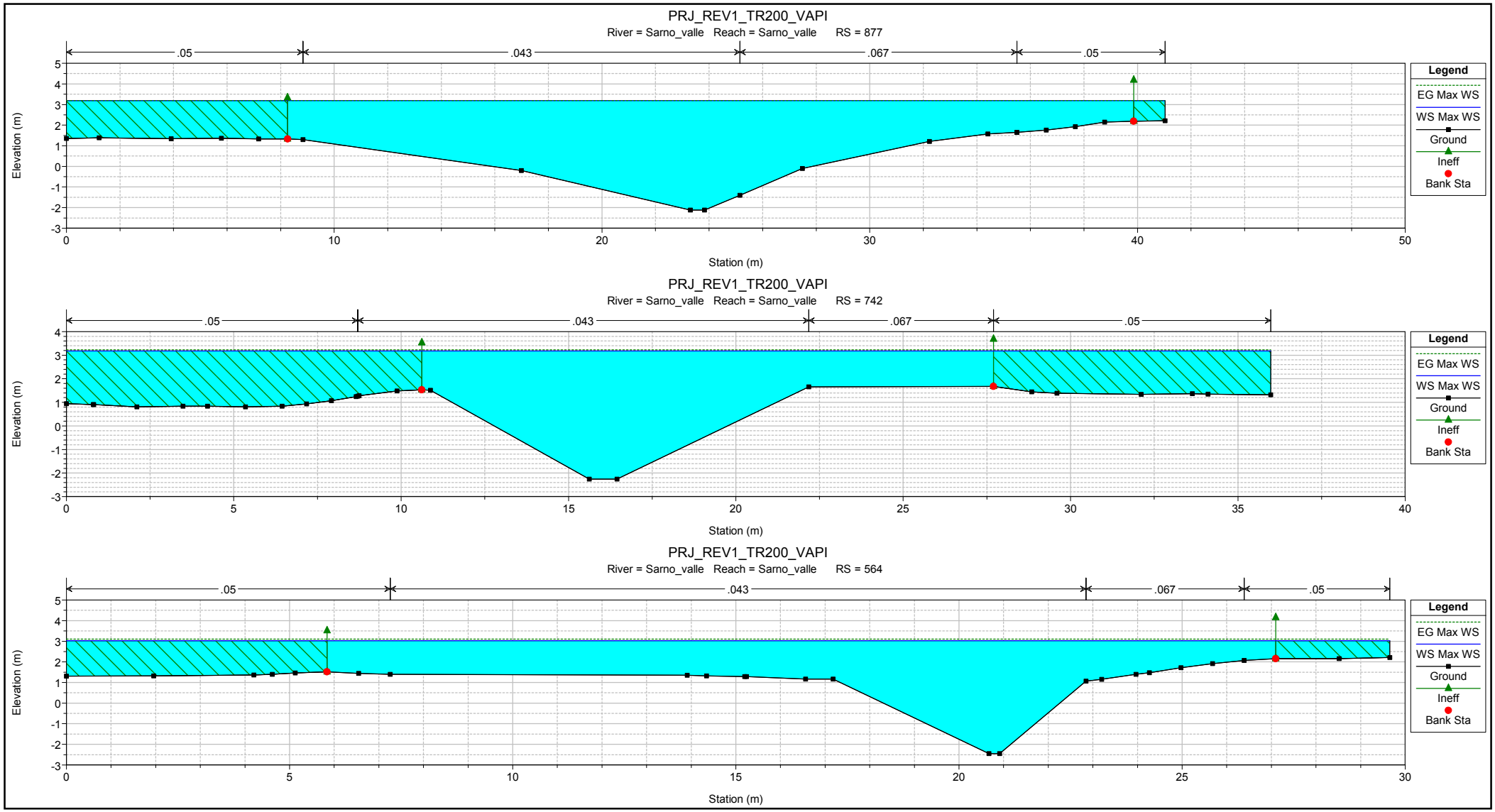

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1913
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1869
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1829
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

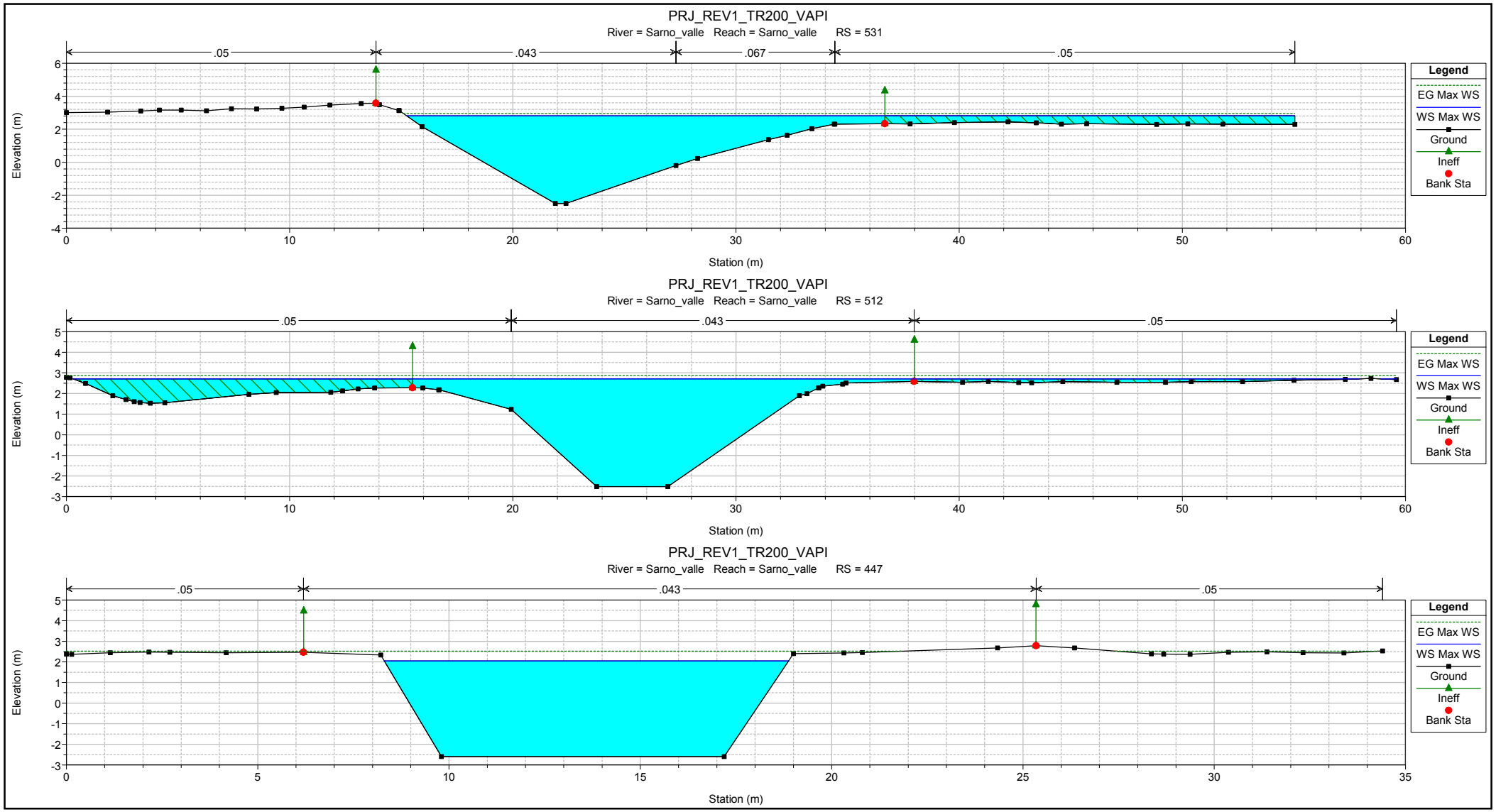

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1816
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1787
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1724
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

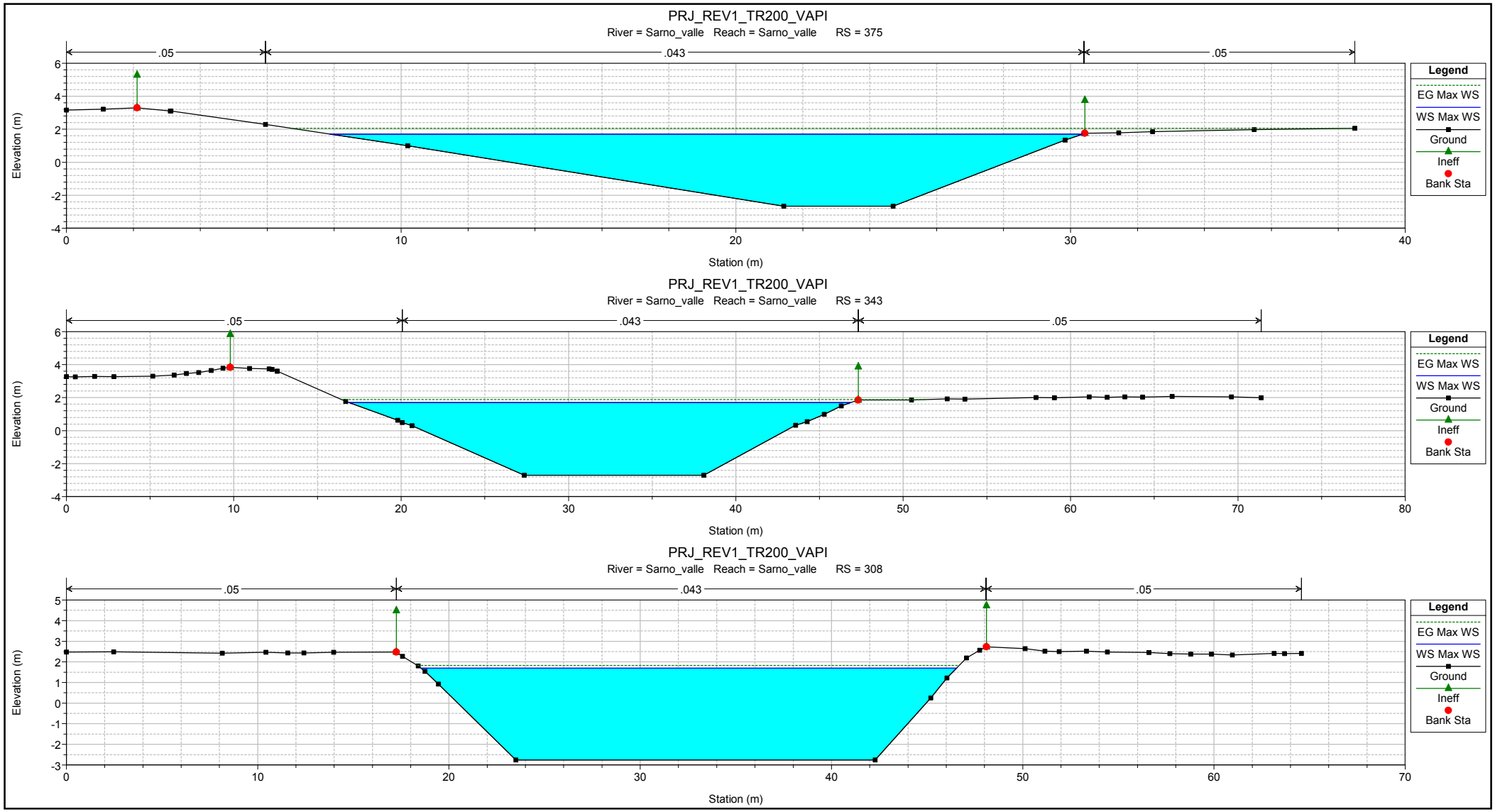

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1667
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1553
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1418
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

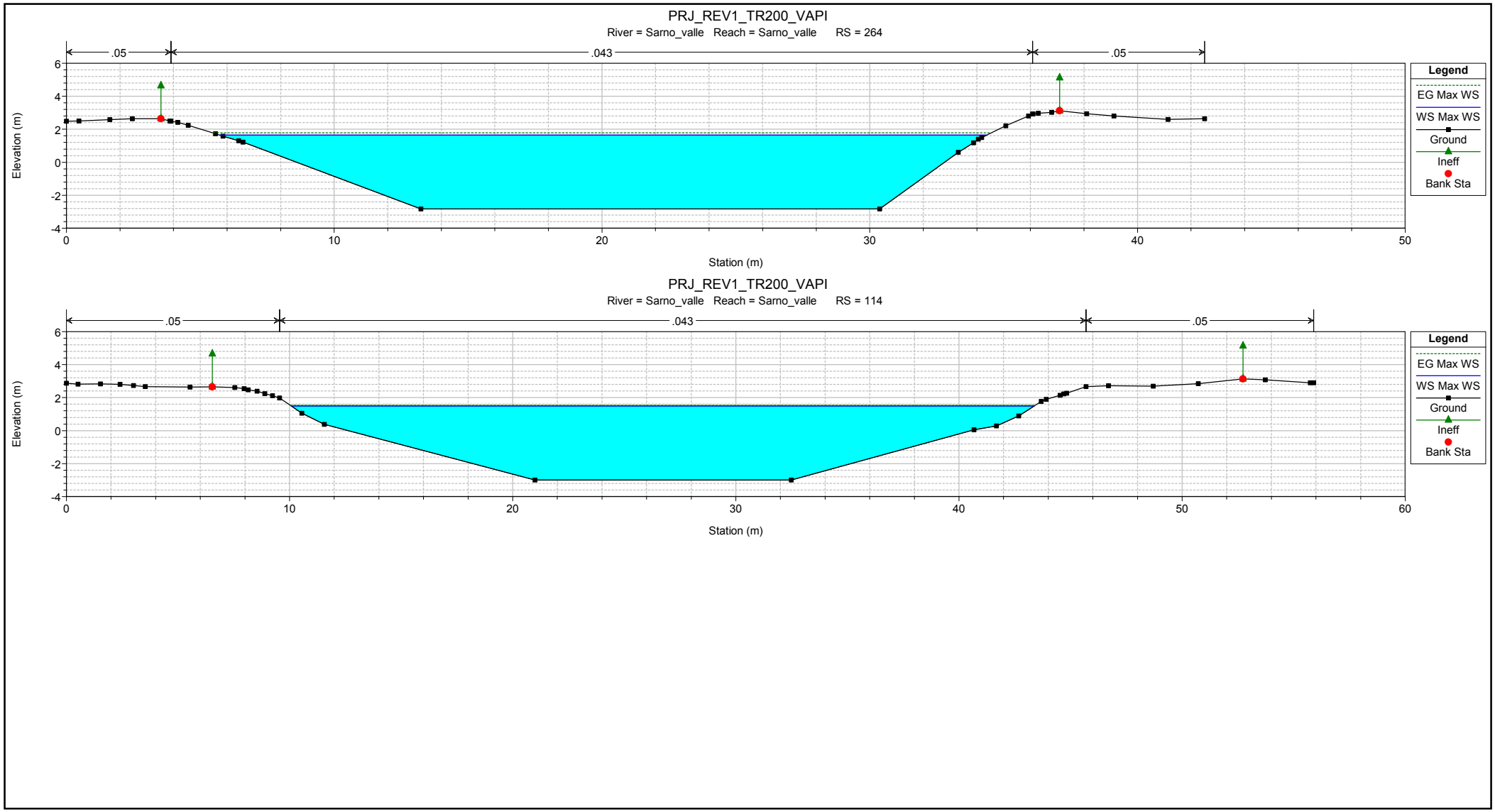

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1235
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1164
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1088
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 981
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 940
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 921
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

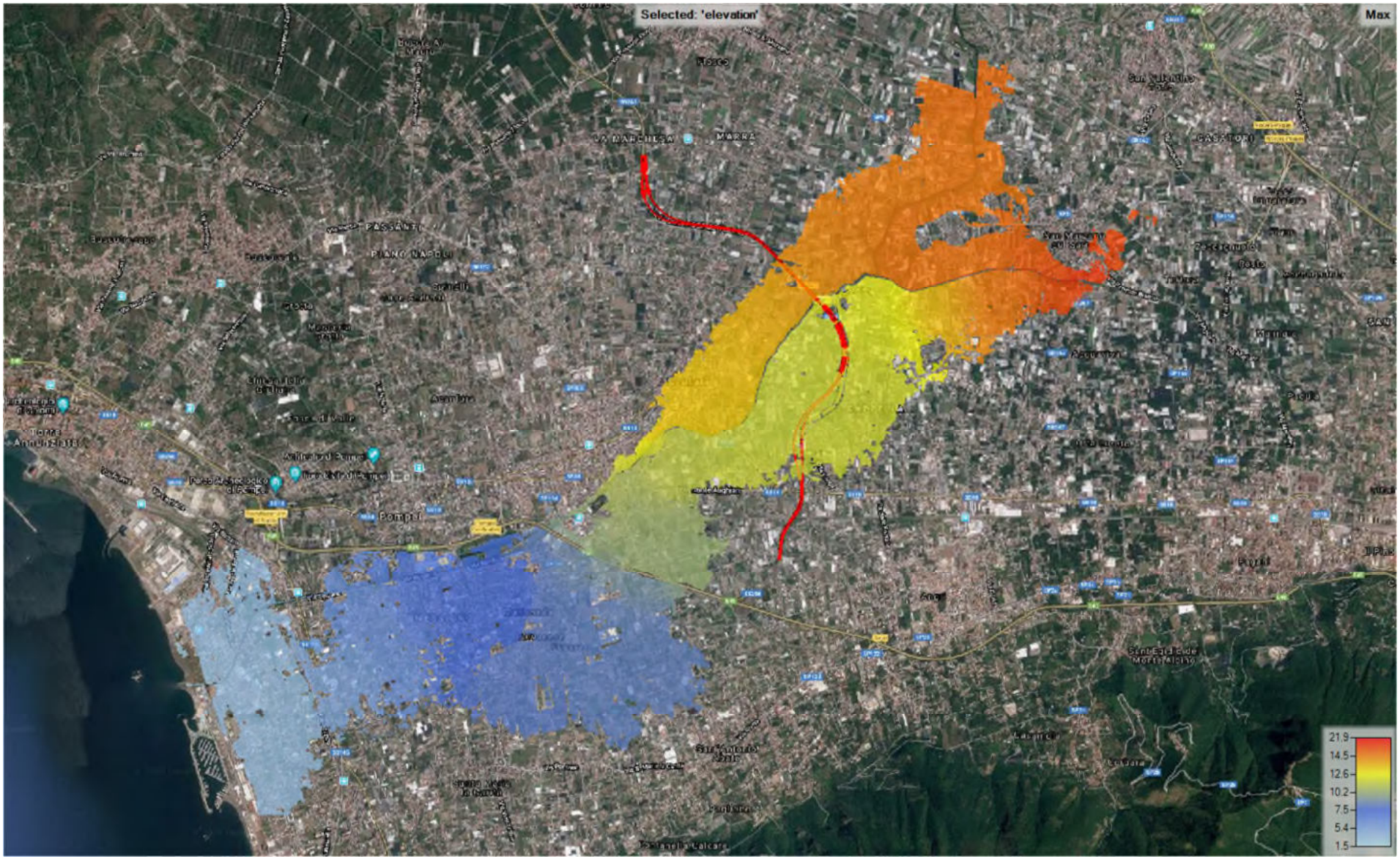

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 877
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 742
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 564
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 531
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 512
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 447
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

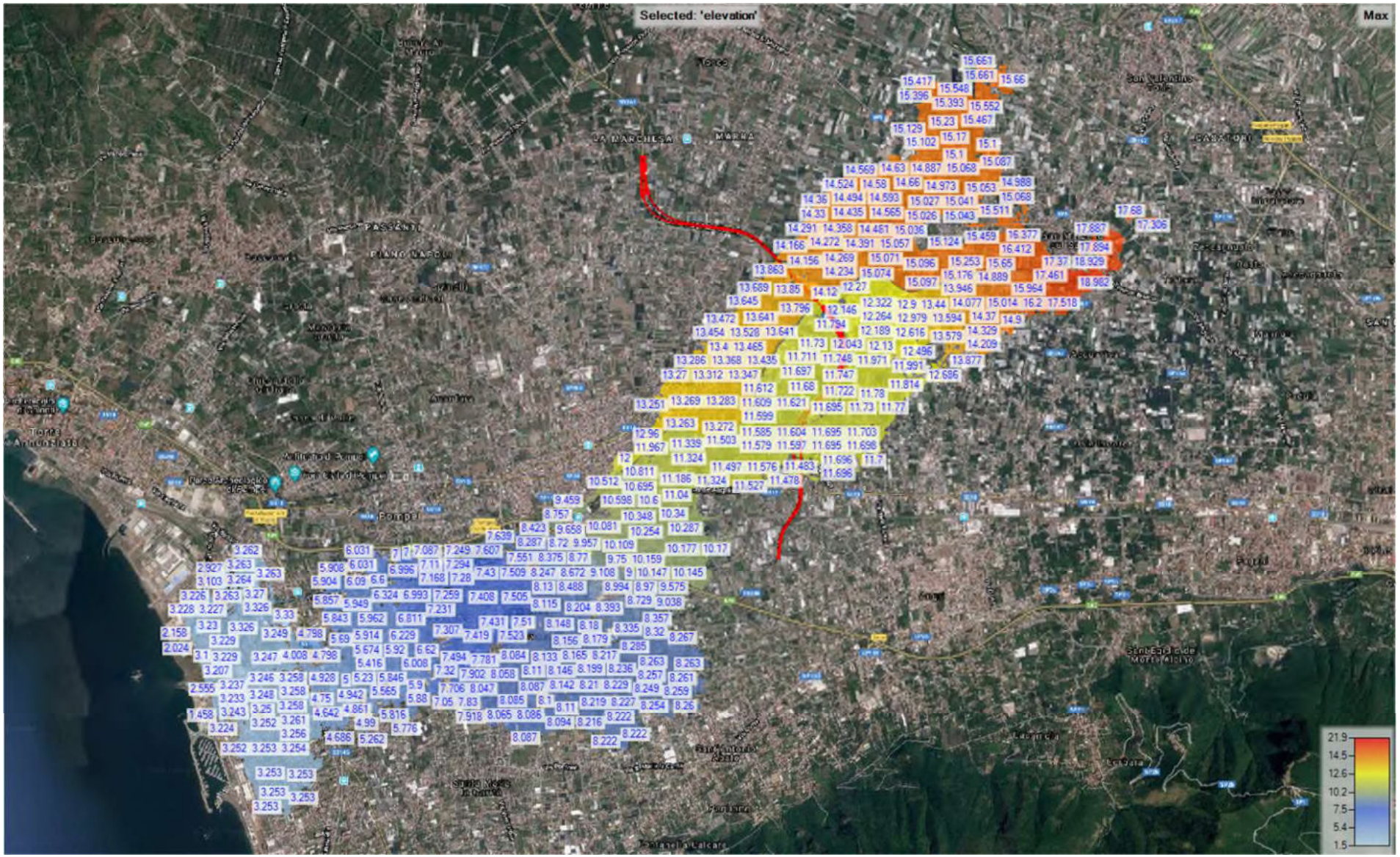

PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 375
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 343
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 308
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 264
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR200_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 114
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

2.2.4. Configurazione di progetto Evento TR 300 anni



Inviluppo dei massimi livelli idrici



Inviluppo dei massimi livelli idrici (visualizzazione numerica del livello massimo)

HEC-RAS Plan: PRJ_REV1_TR300_VAPI Profile: Max WS

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	10158	Max WS	13.00	10.79	4.13	14.92	0.04	14.92	0.20	2.53
Sarno_valle	Sarno_valle	10156		Lat Struct							
Sarno_valle	Sarno_valle	10155		Lat Struct							
Sarno_valle	Sarno_valle	10050	Max WS	11.47	10.75	3.62	14.37	0.09	14.37	0.41	1.93
Sarno_valle	Sarno_valle	9965	Max WS	11.22	10.71	3.26	13.97	0.17	13.99	0.67	1.63
Sarno_valle	Sarno_valle	9887	Max WS	11.20	10.68	3.27	13.95	0.08	13.95	0.37	1.95
Sarno_valle	Sarno_valle	9824	Max WS	11.20	10.57	3.36	13.93	0.11	13.94	0.44	1.76
Sarno_valle	Sarno_valle	9751	Max WS	11.20	10.43	3.48	13.91	0.10	13.92	0.43	1.78
Sarno_valle	Sarno_valle	9629	Max WS	11.20	10.36	3.50	13.87	0.11	13.88	0.44	1.71
Sarno_valle	Sarno_valle	9518	Max WS	11.19	10.30	3.54	13.84	0.08	13.84	0.36	1.97
Sarno_valle	Sarno_valle	9435	Max WS	11.01	10.22	3.58	13.80	0.14	13.81	0.61	1.86
Sarno_valle	Sarno_valle	9396	Max WS	10.99	10.18	3.61	13.79	0.10	13.80	0.43	1.74
Sarno_valle	Sarno_valle	9363	Max WS	10.93	10.14	3.62	13.76	0.14	13.78	0.61	1.83
Sarno_valle	Sarno_valle	9318	Max WS	10.90	10.10	3.64	13.74	0.15	13.75	0.59	1.55
Sarno_valle	Sarno_valle	9130	Max WS	10.69	9.90	3.77	13.67	0.06	13.68	0.29	1.98
Sarno_valle	Sarno_valle	8979	Max WS	10.61	9.75	3.88	13.63	0.11	13.64	0.46	1.83
Sarno_valle	Sarno_valle	8789	Max WS	8.91	9.60	3.99	13.59	0.06	13.60	0.27	1.95
Sarno_valle	Sarno_valle	8648	Max WS	12.66	9.45	4.10	13.55	0.10	13.56	0.46	1.92
Sarno_valle	Sarno_valle	8574	Max WS	19.11	9.37	4.14	13.51	0.12	13.52	0.50	1.65
Sarno_valle	Sarno_valle	8311	Max WS	30.96	9.25	4.11	13.36	0.15	13.38	0.65	2.03
Sarno_valle	Sarno_valle	8123	Max WS	32.66	9.08	4.16	13.24	0.14	13.26	0.69	2.32
Sarno_valle	Sarno_valle	7939	Max WS	19.62	8.98	4.21	13.19	0.10	13.20	0.48	2.19
Sarno_valle	Sarno_valle	7710	Max WS	-14.17	8.80	4.38	13.18	0.06	13.18	-0.29	2.16
Sarno_valle	Sarno_valle	7544	Max WS	-19.34	8.63	4.57	13.20	0.08	13.20	-0.36	2.03
Sarno_valle	Sarno_valle	7437	Max WS	0.32	8.41	4.81	13.22	0.00	13.22	0.01	2.35
Sarno_valle	Sarno_valle	7410	Max WS	16.96	8.41	4.80	13.21	0.07	13.21	0.32	2.43
Sarno_valle	Sarno_valle	7388	Max WS	33.69	8.40	4.77	13.17	0.13	13.19	0.64	2.41
Sarno_valle	Sarno_valle	7351	Max WS	50.99	8.37	4.70	13.07	0.24	13.12	1.03	1.86
Sarno_valle	Sarno_valle	7310	Max WS	46.34	8.32	4.69	13.01	0.22	13.07	1.07	2.30
Sarno_valle	Sarno_valle	7220	Max WS	17.73	8.21	4.83	13.04	0.09	13.04	0.40	2.19
Sarno_valle	Sarno_valle	7143	Max WS	-4.44	8.20	4.84	13.04	0.02	13.04	-0.09	1.76
Sarno_valle	Sarno_valle	7121	Max WS	-4.94	8.20	4.84	13.04	0.02	13.04	-0.11	2.15

HEC-RAS Plan: PRJ_REV1_TR300_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	7042	Max WS	-20.10	8.18	4.86	13.04	0.08	13.04	-0.37	2.48
Sarno_valle	Sarno_valle	6896	Max WS	-24.26	8.10	4.96	13.06	0.09	13.07	-0.43	2.48
Sarno_valle	Sarno_valle	6751	Max WS	11.59	8.03	5.06	13.09	0.04	13.09	0.21	2.46
Sarno_valle	Sarno_valle	6575	Max WS	51.24	7.96	4.94	12.90	0.19	12.94	0.87	2.07
Sarno_valle	Sarno_valle	6325	Max WS	67.93	7.86	4.39	12.25	0.30	12.35	1.42	2.36
Sarno_valle	Sarno_valle	6158	Max WS	37.37	7.79	4.26	12.05	0.20	12.09	0.94	2.25
Sarno_valle	Sarno_valle	6097	Max WS	41.63	7.34	4.61	11.95	0.21	12.01	1.03	2.54
Sarno_valle	Sarno_valle	6081	Max WS	58.97	7.26	4.51	11.77	0.34	11.92	1.68	2.46
Sarno_valle	Sarno_valle	6076	Max WS	58.81	7.25	4.56	11.81	0.29	11.90	1.37	2.29
Sarno_valle	Sarno_valle	6049	Max WS	38.52	7.21	4.63	11.84	0.21	11.88	0.96	2.16
Sarno_valle	Sarno_valle	5980	Max WS	64.13	7.09	4.19	11.28	0.53	11.55	2.33	1.97
Sarno_valle	Sarno_valle	5917	Max WS	53.14	6.98	4.22	11.20	0.28	11.29	1.35	2.28
Sarno_valle	Sarno_valle	5881	Max WS	118.76	5.85	5.13	10.98	0.26	11.07	1.35	2.73
Sarno_valle	Sarno_valle	5861	Max WS	164.64	5.84	4.83	10.67	0.37	10.86	1.98	2.95
Sarno_valle	Sarno_valle	5812	Max WS	67.29	5.79	4.97	10.76	0.18	10.81	1.07	3.03
Sarno_valle	Sarno_valle	5744	Max WS	78.54	5.71	5.02	10.73	0.27	10.85	1.52	3.23
Sarno_valle	Sarno_valle	5662	Max WS	56.70	5.59	5.06	10.65	0.26	10.74	1.30	2.52
Sarno_valle	Sarno_valle	5604	Max WS	50.27	5.54	4.62	10.16	0.55	10.48	2.49	2.14
Sarno_valle	Sarno_valle	5552	Max WS	47.27	5.35	4.71	10.06	0.26	10.15	1.32	2.56
Sarno_valle	Sarno_valle	5478	Max WS	55.80	5.26	4.73	9.99	0.17	10.02	0.82	2.43
Sarno_valle	Sarno_valle	5415	Max WS	46.13	4.41	5.68	10.09	0.09	10.10	0.55	2.77
Sarno_valle	Sarno_valle	5359	Max WS	125.39	4.40	5.60	10.00	0.24	10.09	1.36	3.09
Sarno_valle	Sarno_valle	5279	Max WS	71.45	4.31	5.64	9.95	0.14	9.98	0.81	3.19
Sarno_valle	Sarno_valle	5251	Max WS	84.83	4.29	5.43	9.72	0.35	9.86	1.64	2.22
Sarno_valle	Sarno_valle	5222	Max WS	76.89	4.21	5.44	9.65	0.21	9.73	1.20	3.49
Sarno_valle	Sarno_valle	5206	Max WS	74.96	4.14	5.51	9.65	0.19	9.70	0.99	2.91
Sarno_valle	Sarno_valle	5199	Max WS	74.03	4.13	5.48	9.61	0.25	9.69	1.22	2.50
Sarno_valle	Sarno_valle	5145	Max WS	64.63	4.11	5.52	9.63	0.15	9.66	0.84	3.38
Sarno_valle	Sarno_valle	5137	Max WS	64.78	4.10	5.51	9.61	0.21	9.67	1.08	2.59
Sarno_valle	Sarno_valle	5131	Max WS	70.63	4.09	5.41	9.50	0.39	9.65	1.67	1.91
Sarno_valle	Sarno_valle	5107	Max WS	32.21	4.07	5.43	9.50	0.08	9.51	0.44	2.93
Sarno_valle	Sarno_valle	5074	Max WS	46.98	4.05	5.53	9.58	0.14	9.60	0.72	2.69

HEC-RAS Plan: PRJ_REV1_TR300_VAPI Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	5013	Max WS	60.39	4.01	5.43	9.44	0.19	9.49	0.98	2.67
Sarno_valle	Sarno_valle	4982	Max WS	69.53	3.99	5.40	9.39	0.16	9.43	0.88	3.10
Sarno_valle	Sarno_valle	4928	Max WS	118.97	3.87	4.93	8.80	0.55	9.15	2.64	2.34
Sarno_valle	Sarno_valle	4906	Max WS	128.13	3.74	4.82	8.56	0.56	8.91	2.63	2.28
Sarno_valle	Sarno_valle	4785	Max WS	35.51	3.44	4.96	8.40	0.12	8.42	0.61	2.43
Sarno_valle	Sarno_valle	4706	Max WS	55.11	3.38	4.88	8.26	0.21	8.31	1.00	2.34
Sarno_valle	Sarno_valle	4661	Max WS	57.14	3.38	4.83	8.21	0.19	8.25	0.87	2.20
Sarno_valle	Sarno_valle	4625	Max WS	65.53	3.28	4.84	8.12	0.24	8.18	1.16	2.36
Sarno_valle	Sarno_valle	4603	Max WS	61.84	3.27	4.87	8.14	0.18	8.17	0.82	2.15
Sarno_valle	Sarno_valle	4568	Max WS	63.71	3.25	4.90	8.15	0.15	8.18	0.81	2.84
Sarno_valle	Sarno_valle	4531	Max WS	53.90	3.22	4.96	8.18	0.11	8.20	0.63	2.79
Sarno_valle	Sarno_valle	4463	Max WS	60.92	3.20	4.88	8.08	0.20	8.12	0.82	1.81
Sarno_valle	Sarno_valle	4351	Max WS	63.14	3.18	4.54	7.72	0.34	7.84	1.50	1.95
Sarno_valle	Sarno_valle	4284	Max WS	47.99	3.06	4.60	7.66	0.20	7.69	0.83	1.72
Sarno_valle	Sarno_valle	4061	Max WS	41.63	2.68	4.78	7.46	0.18	7.49	0.79	2.04
Sarno_valle	Sarno_valle	3919	Max WS	39.30	2.48	4.85	7.33	0.18	7.37	0.85	2.38
Sarno_valle	Sarno_valle	3863	Max WS	45.52	2.38	4.90	7.28	0.14	7.31	0.72	2.60
Sarno_valle	Sarno_valle	3844	Max WS	45.01	2.37	4.91	7.28	0.12	7.30	0.63	2.71
Sarno_valle	Sarno_valle	3800	Max WS	40.30	2.24	5.06	7.30	0.10	7.31	0.55	3.22
Sarno_valle	Sarno_valle	3685	Max WS	31.48	2.10	5.13	7.23	0.11	7.25	0.55	2.59
Sarno_valle	Sarno_valle	3499	Max WS	40.78	1.84	5.33	7.17	0.12	7.19	0.62	2.79
Sarno_valle	Sarno_valle	3144	Max WS	46.35	1.41	5.53	6.94	0.15	6.97	0.75	2.65
Sarno_valle	Sarno_valle	3039	Max WS	66.86	1.34	5.53	6.87	0.16	6.91	0.90	3.36
Sarno_valle	Sarno_valle	3015	Max WS	65.06	1.32	5.46	6.78	0.27	6.87	1.36	2.56
Sarno_valle	Sarno_valle	2928	Max WS	54.45	1.27	5.43	6.70	0.20	6.75	1.01	2.62
Sarno_valle	Sarno_valle	2827	Max WS	52.45	1.14	5.24	6.38	0.36	6.52	1.61	2.03
Sarno_valle	Sarno_valle	2768	Max WS	51.94	1.00	5.31	6.31	0.21	6.36	0.99	2.34
Sarno_valle	Sarno_valle	2752	Max WS	51.70	0.96	5.27	6.23	0.34	6.33	1.38	1.73
Sarno_valle	Sarno_valle	2705	Max WS	43.87	0.88	5.29	6.17	0.20	6.22	0.91	2.04
Sarno_valle	Sarno_valle	2514	Max WS	50.77	0.70	5.22	5.92	0.18	5.96	0.86	2.36
Sarno_valle	Sarno_valle	2387	Max WS	16.70	0.52	5.41	5.93	0.04	5.93	0.26	3.31
Sarno_valle	Sarno_valle	2285	Max WS	57.69	0.40	5.33	5.73	0.25	5.79	1.10	2.02

HEC-RAS Plan: PRJ_REV1_TR300_VAPI Profile: Max WS (Continued)

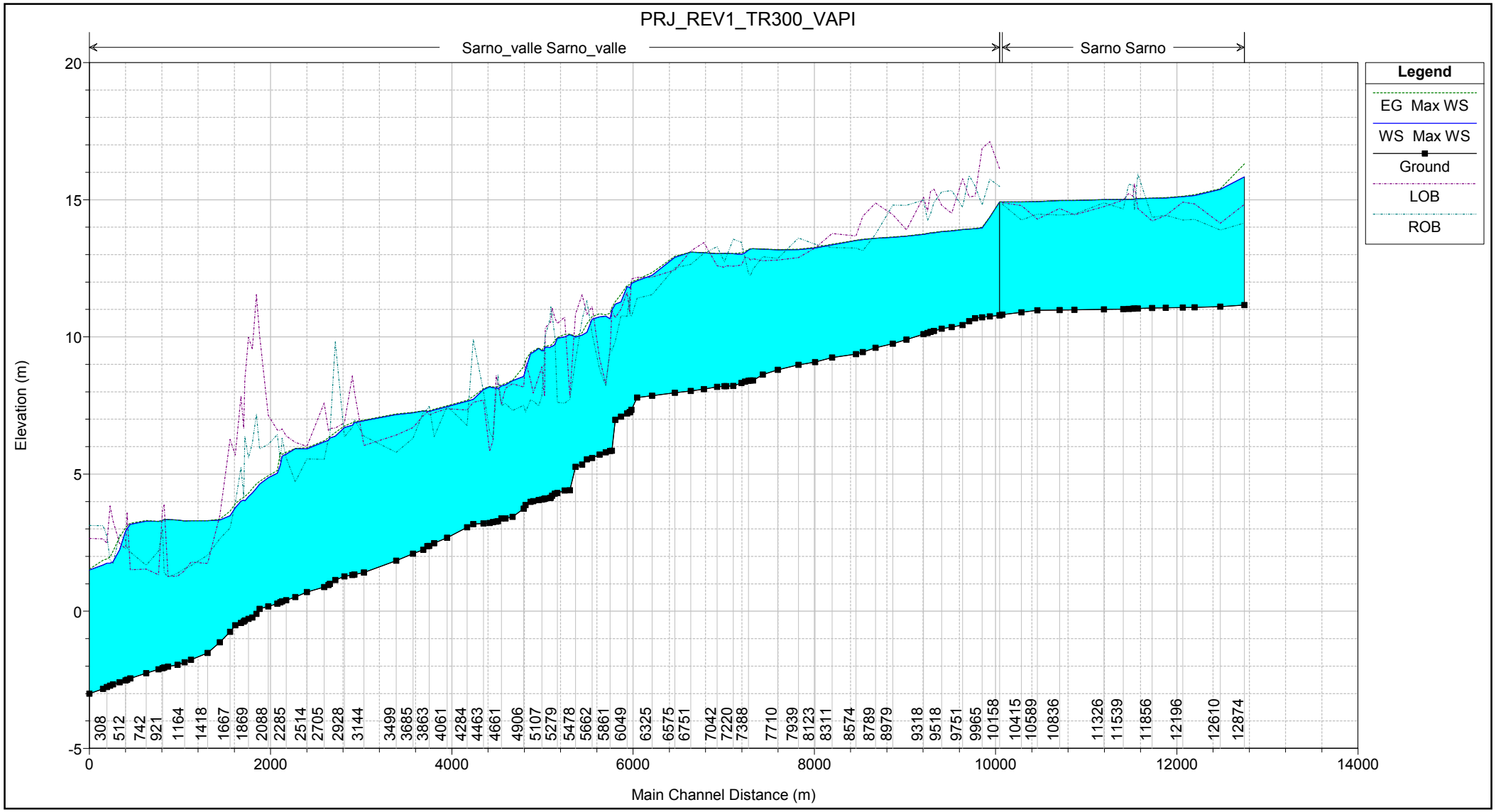
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno_valle	Sarno_valle	2240	Max WS	58.67	0.36	5.29	5.65	0.23	5.72	1.18	2.75
Sarno_valle	Sarno_valle	2220	Max WS	58.67	0.33	4.99	5.32	0.73	5.79	3.03	1.74
Sarno_valle	Sarno_valle	2189	Max WS	58.66	0.28	4.75	5.03	0.28	5.13	1.38	2.50
Sarno_valle	Sarno_valle	2088	Max WS	58.66	0.18	4.68	4.86	0.25	4.94	1.25	2.58
Sarno_valle	Sarno_valle	1993	Max WS	58.66	0.09	4.55	4.64	0.30	4.74	1.38	2.13
Sarno_valle	Sarno_valle	1957	Max WS	58.65	-0.10	4.58	4.48	0.36	4.64	1.75	2.43
Sarno_valle	Sarno_valle	1913	Max WS	58.65	-0.23	4.54	4.31	0.41	4.47	1.78	1.90
Sarno_valle	Sarno_valle	1869	Max WS	58.64	-0.28	4.46	4.18	0.33	4.30	1.57	2.31
Sarno_valle	Sarno_valle	1829	Max WS	58.59	-0.34	4.36	4.02	0.36	4.18	1.78	2.51
Sarno_valle	Sarno_valle	1816	Max WS	58.58	-0.38	4.43	4.05	0.27	4.15	1.37	2.66
Sarno_valle	Sarno_valle	1787	Max WS	58.41	-0.43	4.44	4.01	0.25	4.10	1.31	2.79
Sarno_valle	Sarno_valle	1724	Max WS	58.18	-0.51	4.29	3.78	0.38	3.92	1.68	2.03
Sarno_valle	Sarno_valle	1667	Max WS	51.64	-0.75	4.23	3.48	0.39	3.65	1.83	2.19
Sarno_valle	Sarno_valle	1553	Max WS	33.50	-1.13	4.45	3.32	0.21	3.36	0.84	1.68
Sarno_valle	Sarno_valle	1418	Max WS	7.22	-1.52	4.82	3.30	0.02	3.30	0.12	2.36
Sarno_valle	Sarno_valle	1235	Max WS	12.22	-1.77	5.07	3.30	0.04	3.30	0.20	2.90
Sarno_valle	Sarno_valle	1164	Max WS	6.37	-1.86	5.15	3.29	0.03	3.29	0.15	2.60
Sarno_valle	Sarno_valle	1088	Max WS	-1.41	-1.95	5.28	3.33	0.00	3.33	-0.02	2.64
Sarno_valle	Sarno_valle	981	Max WS	-4.14	-2.02	5.36	3.34	0.01	3.34	-0.05	3.35
Sarno_valle	Sarno_valle	940	Max WS	22.70	-2.05	5.39	3.34	0.08	3.35	0.45	2.83
Sarno_valle	Sarno_valle	921	Max WS	3.97	-2.08	5.39	3.31	0.02	3.31	0.09	2.41
Sarno_valle	Sarno_valle	877	Max WS	-3.79	-2.12	5.40	3.28	0.01	3.28	-0.04	3.01
Sarno_valle	Sarno_valle	742	Max WS	-35.22	-2.26	5.55	3.29	0.12	3.31	-0.68	3.04
Sarno_valle	Sarno_valle	564	Max WS	45.04	-2.45	5.62	3.17	0.19	3.21	0.92	2.31
Sarno_valle	Sarno_valle	531	Max WS	81.45	-2.50	5.51	3.01	0.27	3.11	1.40	2.70
Sarno_valle	Sarno_valle	512	Max WS	89.70	-2.52	5.44	2.92	0.31	3.04	1.57	2.55
Sarno_valle	Sarno_valle	447	Max WS	130.58	-2.59	4.83	2.24	0.47	2.69	2.99	4.08
Sarno_valle	Sarno_valle	375	Max WS	160.98	-2.66	4.46	1.80	0.56	2.19	2.78	2.54
Sarno_valle	Sarno_valle	343	Max WS	186.07	-2.71	4.46	1.75	0.39	1.98	2.08	2.95
Sarno_valle	Sarno_valle	308	Max WS	187.32	-2.76	4.51	1.75	0.29	1.91	1.77	3.75
Sarno_valle	Sarno_valle	264	Max WS	187.31	-2.83	4.52	1.69	0.31	1.86	1.82	3.58
Sarno_valle	Sarno_valle	114	Max WS	-89.90	-3.00	4.50	1.50	0.15	1.54	-0.85	3.18

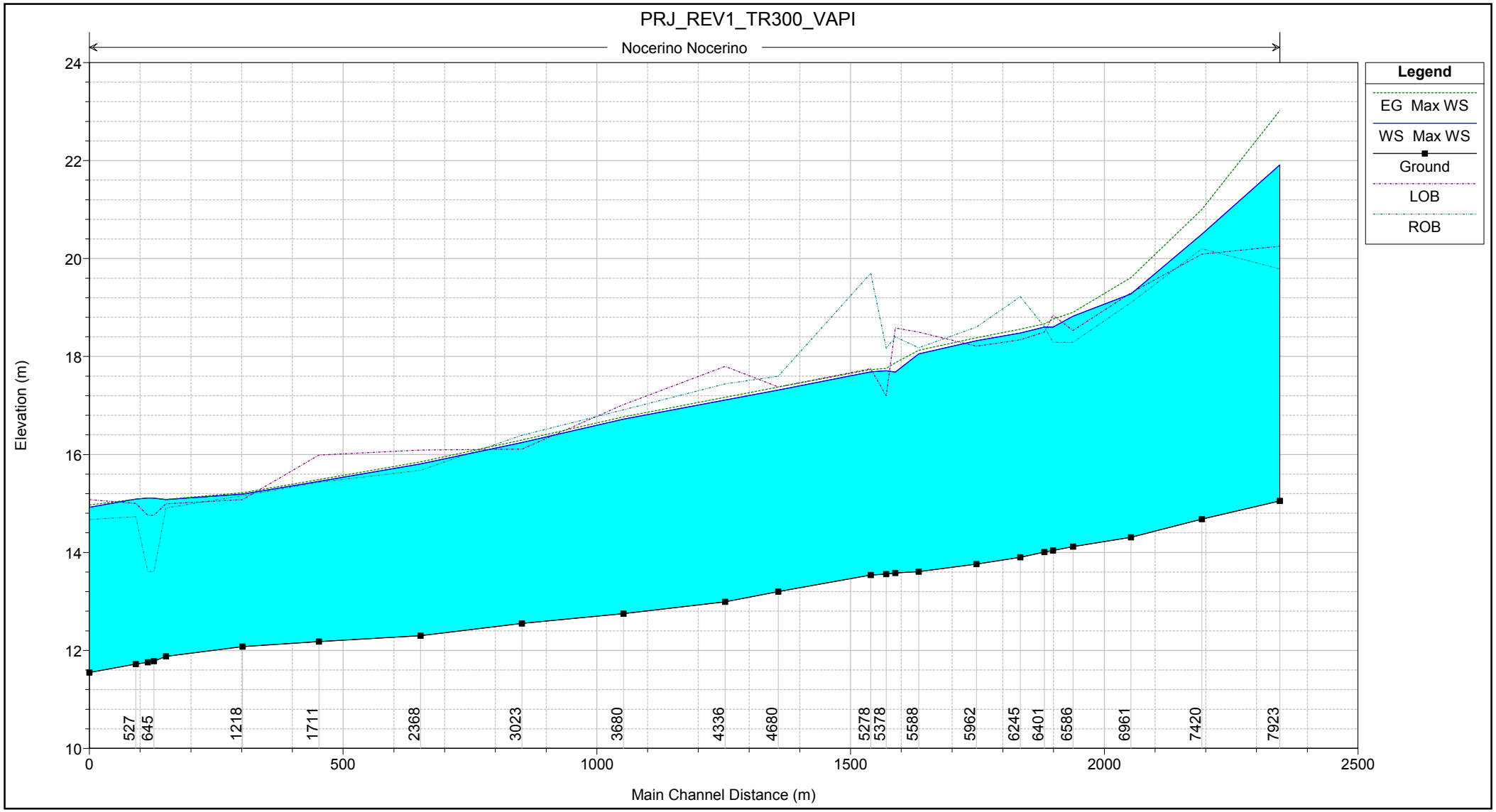
HEC-RAS Plan: PRJ_REV1_TR300_VAPI Profile: Max WS (Continued)

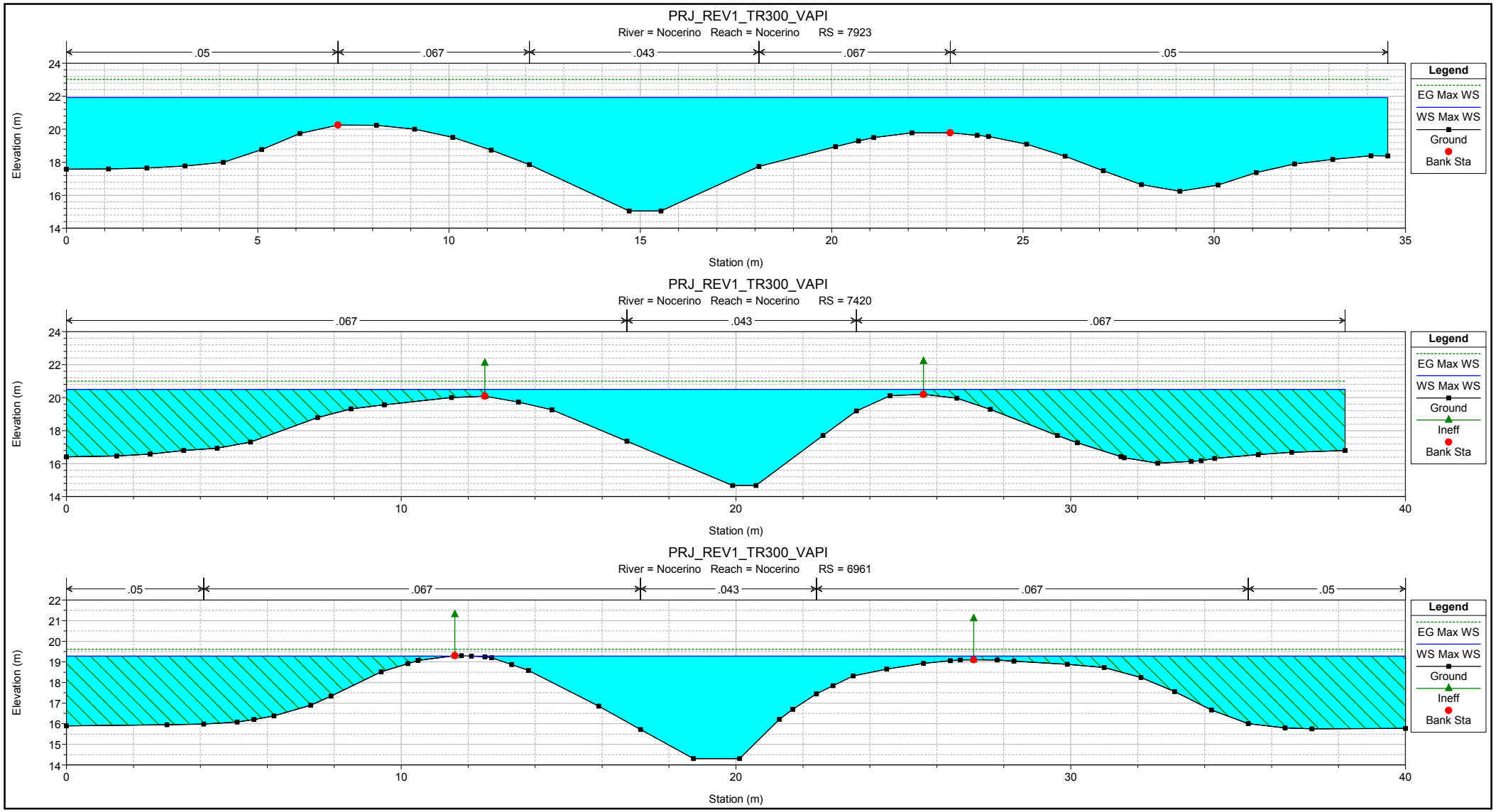
River	Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
				(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Sarno	Sarno	12874	Max WS	334.74	11.16	4.67	15.83	0.63	16.31	3.35	2.20
Sarno	Sarno	12873		Lat Struct							
Sarno	Sarno	12872		Lat Struct							
Sarno	Sarno	12610	Max WS	42.38	11.10	4.28	15.38	0.14	15.40	0.70	2.43
Sarno	Sarno	12325	Max WS	41.29	11.08	4.08	15.16	0.15	15.18	0.74	2.31
Sarno	Sarno	12196	Max WS	40.59	11.07	4.04	15.11	0.10	15.13	0.54	2.75
Sarno	Sarno	12006	Max WS	41.83	11.06	4.01	15.07	0.10	15.08	0.51	2.41
Sarno	Sarno	11856	Max WS	23.70	11.05	4.01	15.06	0.09	15.07	0.42	2.15
Sarno	Sarno	11698	Max WS	22.92	11.04	4.00	15.04	0.07	15.04	0.35	2.47
Sarno	Sarno	11660	Max WS	22.02	11.03	3.99	15.02	0.10	15.03	0.42	1.83
Sarno	Sarno	11647	Max WS	21.33	11.02	3.99	15.02	0.11	15.03	0.47	1.77
Sarno	Sarno	11598	Max WS	21.21	11.02	3.99	15.01	0.06	15.02	0.33	2.74
Sarno	Sarno	11539	Max WS	19.00	11.01	4.00	15.01	0.06	15.01	0.26	2.17
Sarno	Sarno	11326	Max WS	8.65	11.00	4.01	15.01	0.03	15.01	0.12	2.24
Sarno	Sarno	11000	Max WS	33.03	10.99	3.98	14.97	0.08	14.98	0.37	2.51
Sarno	Sarno	10836	Max WS	15.15	10.98	3.99	14.97	0.05	14.97	0.22	2.28
Sarno	Sarno	10589	Max WS	36.62	10.97	3.96	14.93	0.08	14.94	0.40	2.53
Sarno	Sarno	10415	Max WS	22.64	10.90	4.02	14.92	0.09	14.93	0.38	1.68
Sarno	Sarno	10205	Max WS	-5.66	10.81	4.11	14.92	0.02	14.92	-0.10	1.82

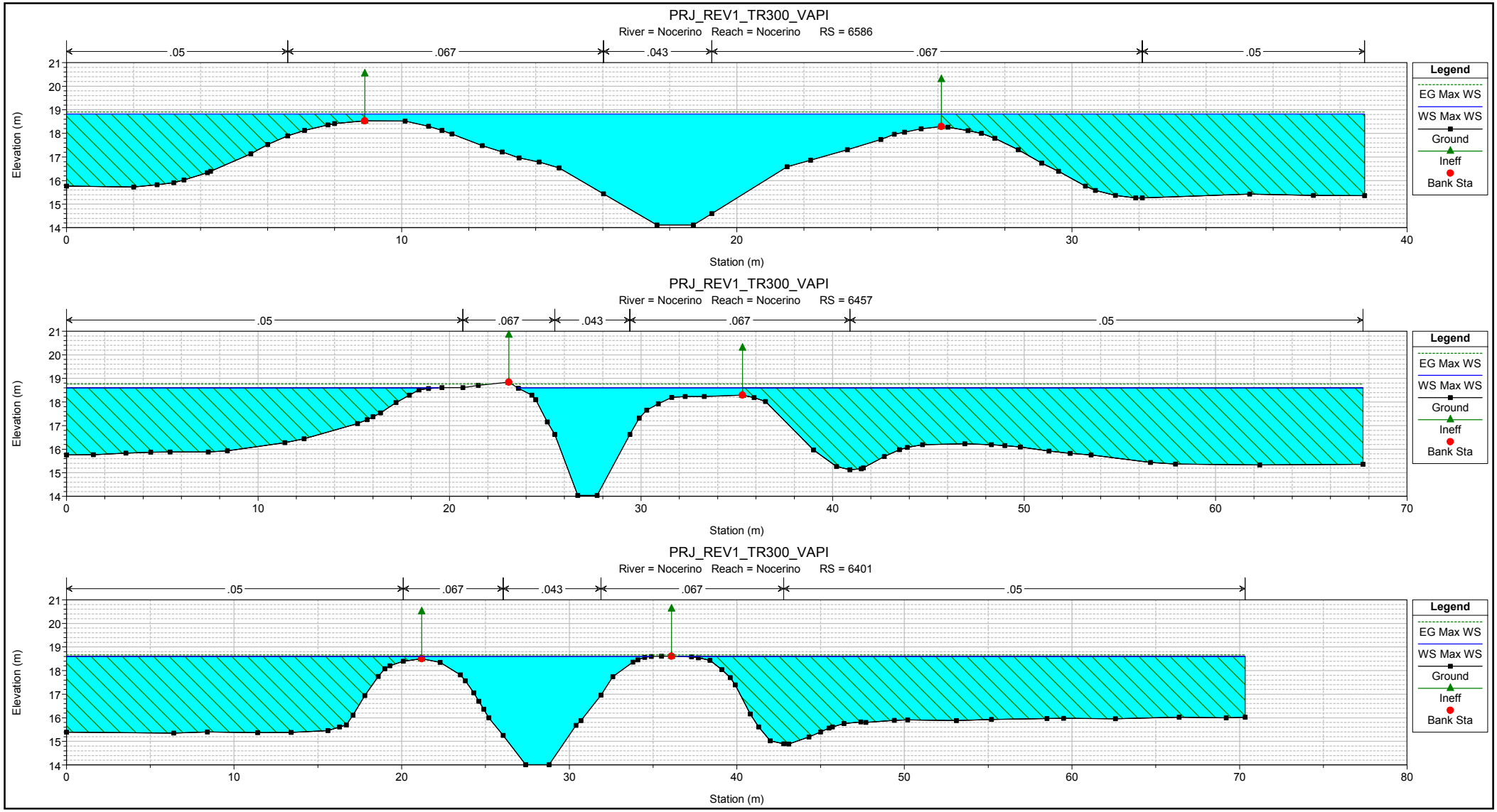
HEC-RAS Plan: PRJ_REV1_TR300_VAPI River: Nocerino Reach: Nocerino Profile: Max WS

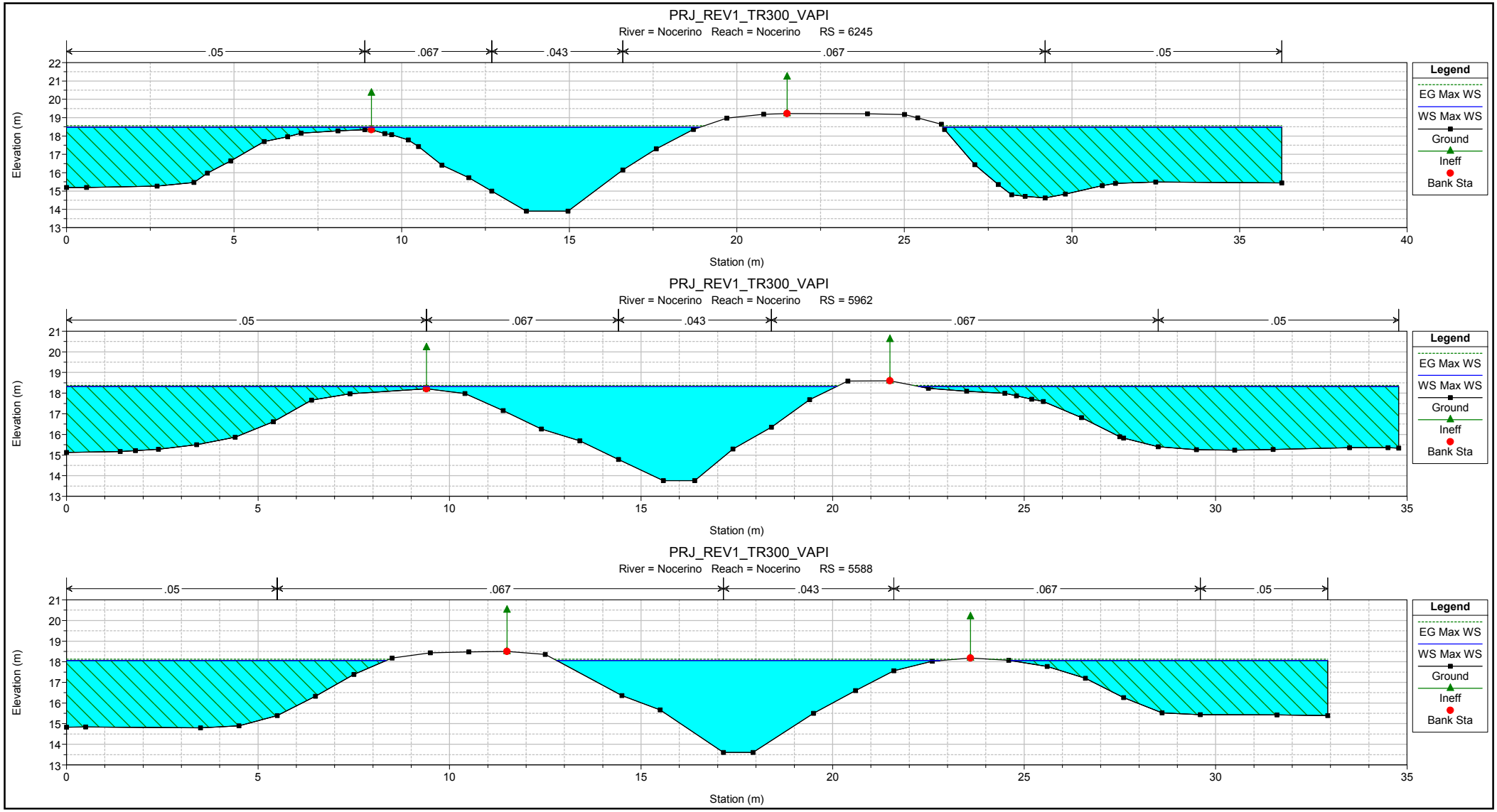
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Froude # Chl	E.G. Elev	Vel Chnl	Hydr Depth
			(m3/s)	(m)	(m)	(m)		(m)	(m/s)	(m)
Nocerino	7923	Max WS	609.34	15.05	6.86	21.91	0.76	23.02	4.61	3.81
Nocerino	7922		Lat Struct							
Nocerino	7921		Lat Struct							
Nocerino	7420	Max WS	114.74	14.68	5.82	20.50	0.60	21.00	3.13	2.79
Nocerino	6961	Max WS	81.55	14.31	4.97	19.28	0.56	19.61	2.57	2.12
Nocerino	6586	Max WS	47.09	14.12	4.70	18.82	0.27	18.90	1.26	2.17
Nocerino	6457	Max WS	33.82	14.04	4.56	18.60	0.45	18.76	1.78	1.62
Nocerino	6401	Max WS	32.43	14.01	4.59	18.60	0.25	18.66	1.12	2.12
Nocerino	6245	Max WS	30.33	13.90	4.58	18.48	0.26	18.56	1.27	2.43
Nocerino	5962	Max WS	26.23	13.76	4.56	18.32	0.23	18.38	1.08	2.28
Nocerino	5588	Max WS	25.84	13.61	4.44	18.05	0.26	18.13	1.20	2.15
Nocerino	5437	Max WS	25.84	13.58	4.10	17.68	0.45	17.87	1.92	1.90
Nocerino	5378	Max WS	24.76	13.56	4.15	17.71	0.21	17.76	0.97	2.24
Nocerino	5278	Max WS	20.30	13.54	4.15	17.69	0.22	17.74	0.97	2.06
Nocerino	4680	Max WS	20.27	13.20	4.12	17.32	0.25	17.38	1.08	1.85
Nocerino	4336	Max WS	20.23	12.99	4.12	17.11	0.22	17.17	1.04	2.33
Nocerino	3680	Max WS	20.03	12.75	3.97	16.72	0.23	16.77	0.96	1.73
Nocerino	3023	Max WS	18.79	12.55	3.69	16.24	0.25	16.29	0.99	1.56
Nocerino	2368	Max WS	16.32	12.30	3.51	15.81	0.23	15.85	0.90	1.52
Nocerino	1711	Max WS	13.19	12.18	3.27	15.45	0.24	15.49	0.84	1.30
Nocerino	1218	Max WS	12.34	12.08	3.11	15.19	0.21	15.22	0.72	1.20
Nocerino	723	Max WS	4.45	11.88	3.28	15.08	0.06	15.08	0.22	1.43
Nocerino	645	Max WS	3.58	11.78	3.33	15.11	0.02	15.11	0.11	2.05
Nocerino	605	Max WS	1.52	11.76	3.35	15.11	0.01	15.11	0.05	2.11
Nocerino	527	Max WS	3.15	11.72	3.37	15.09	0.05	15.09	0.17	1.24
Nocerino	227	Max WS	18.67	11.55	3.37	14.92	0.25	14.97	0.94	1.48

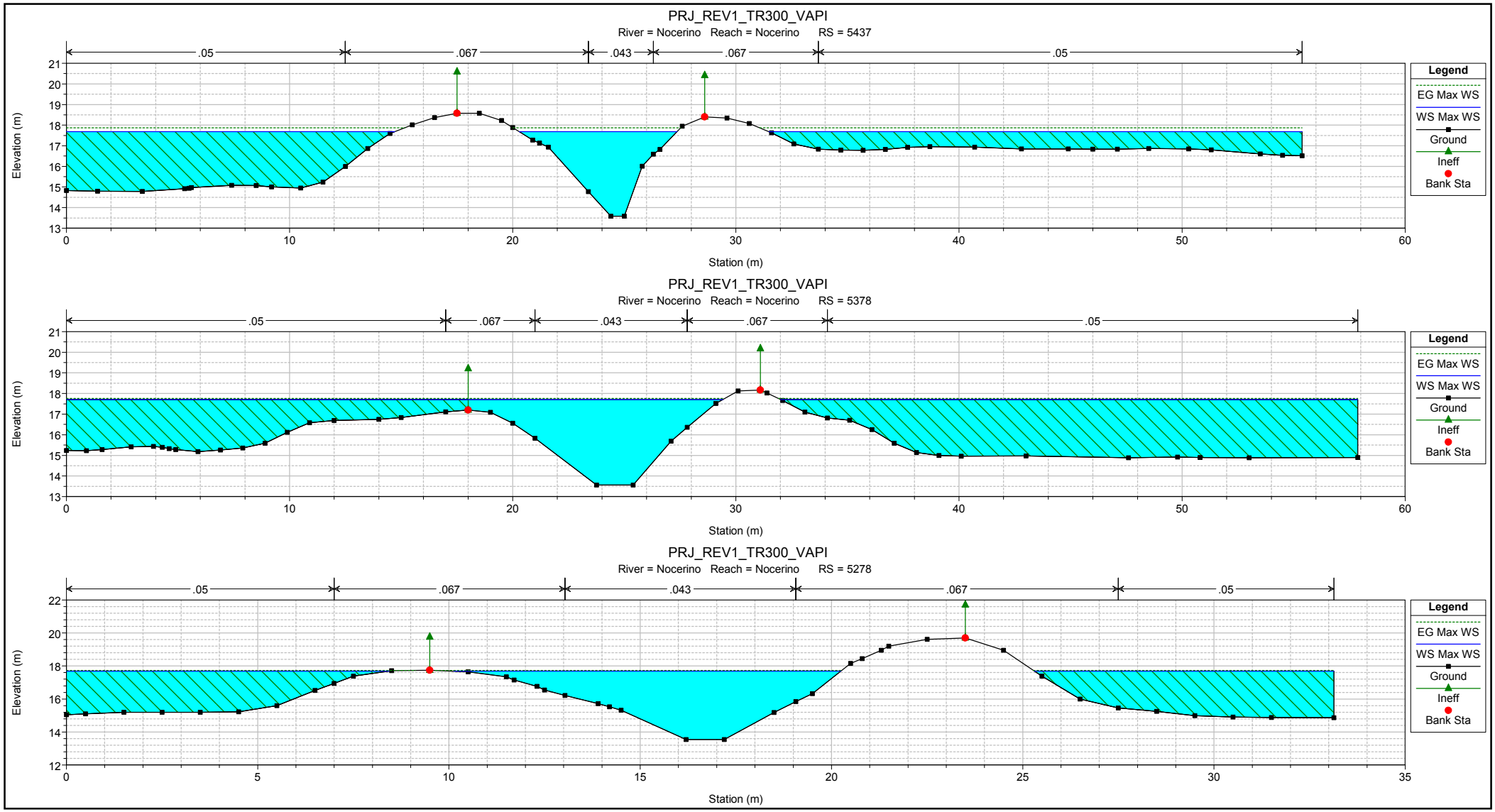

PRJ_REV1_TR300_VAPI
Sarno_valle Sarno_valle
Sarno Sarno
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
20
15
10
5
0
-5
0
2000
4000
6000
8000
10000
12000
14000
308
512
742
921
1164
1418
1667
1869
2088
2285
2514
2705
2928
3144
3499
3685
3863
4061
4284
4463
4661
4906
5107
5279
5478
5662
5861
6049
6325
6575
6751
7042
7220
7388
7710
7939
8123
8311
8574
8789
8979
9318
9518
9751
9965
10158
10415
10589
10836
11326
11539
11856
12196
12610
12874

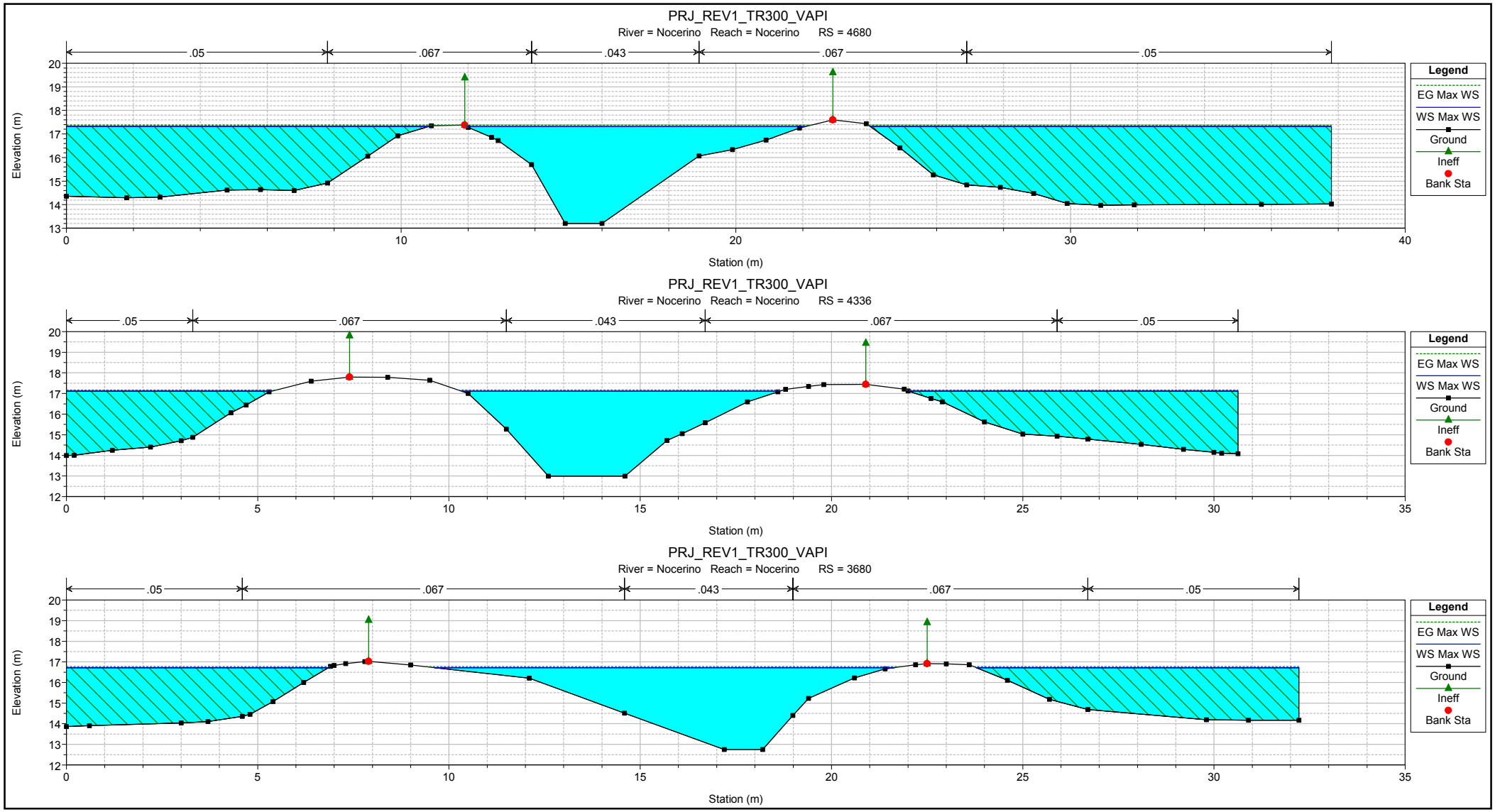

PRJ_REV1_TR300_VAPI
Nocerino Nocerino
Legend
EG Max WS
WS Max WS
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
24
22
20
18
16
14
12
10
0
500
1000
1500
2000
2500
527
645
1218
1711
2368
3023
3680
4336
4680
5278
5378
5588
5962
6245
6401
6586
6961
7420
7923

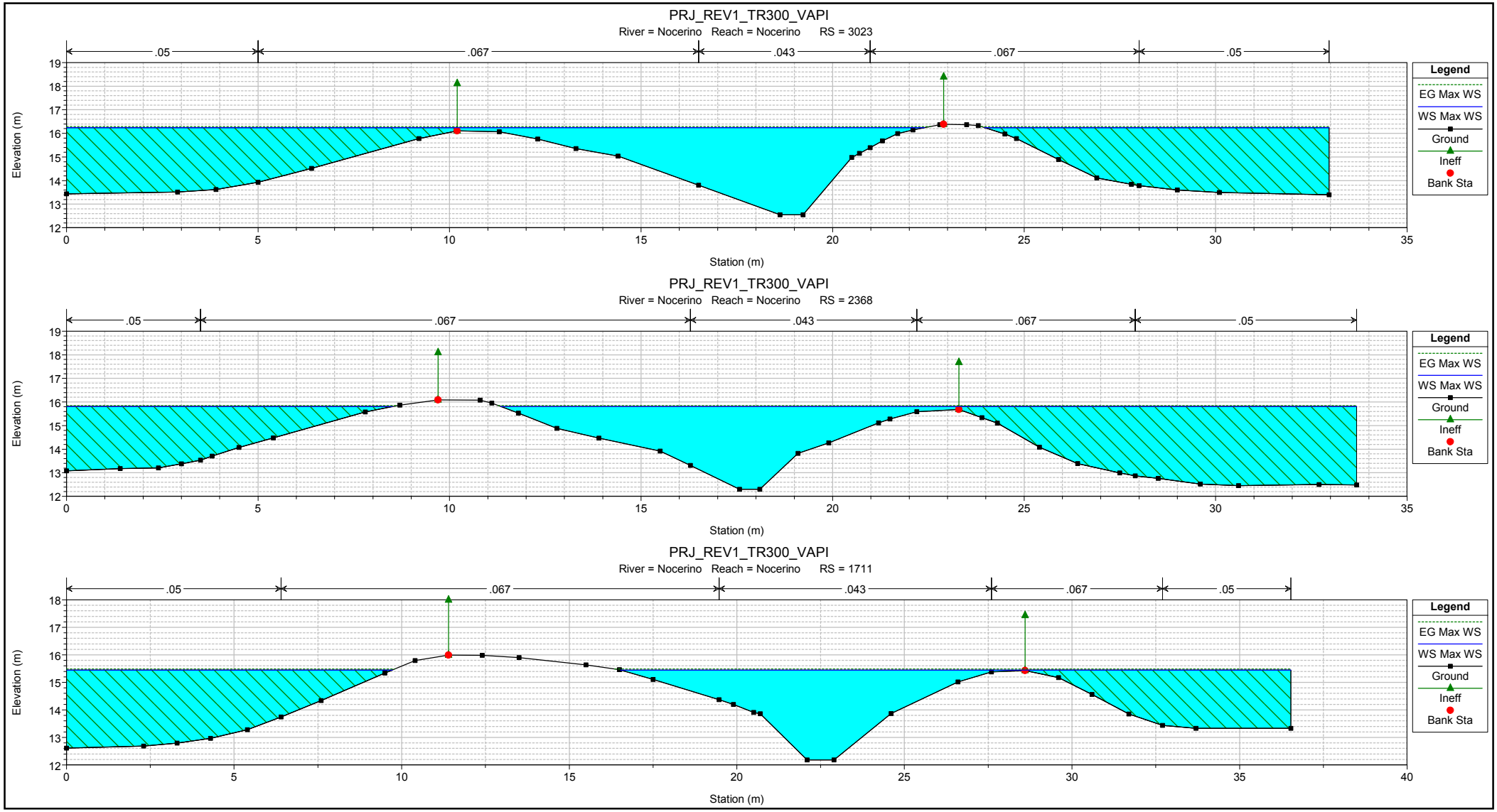

PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 7923
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 7420
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6961
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

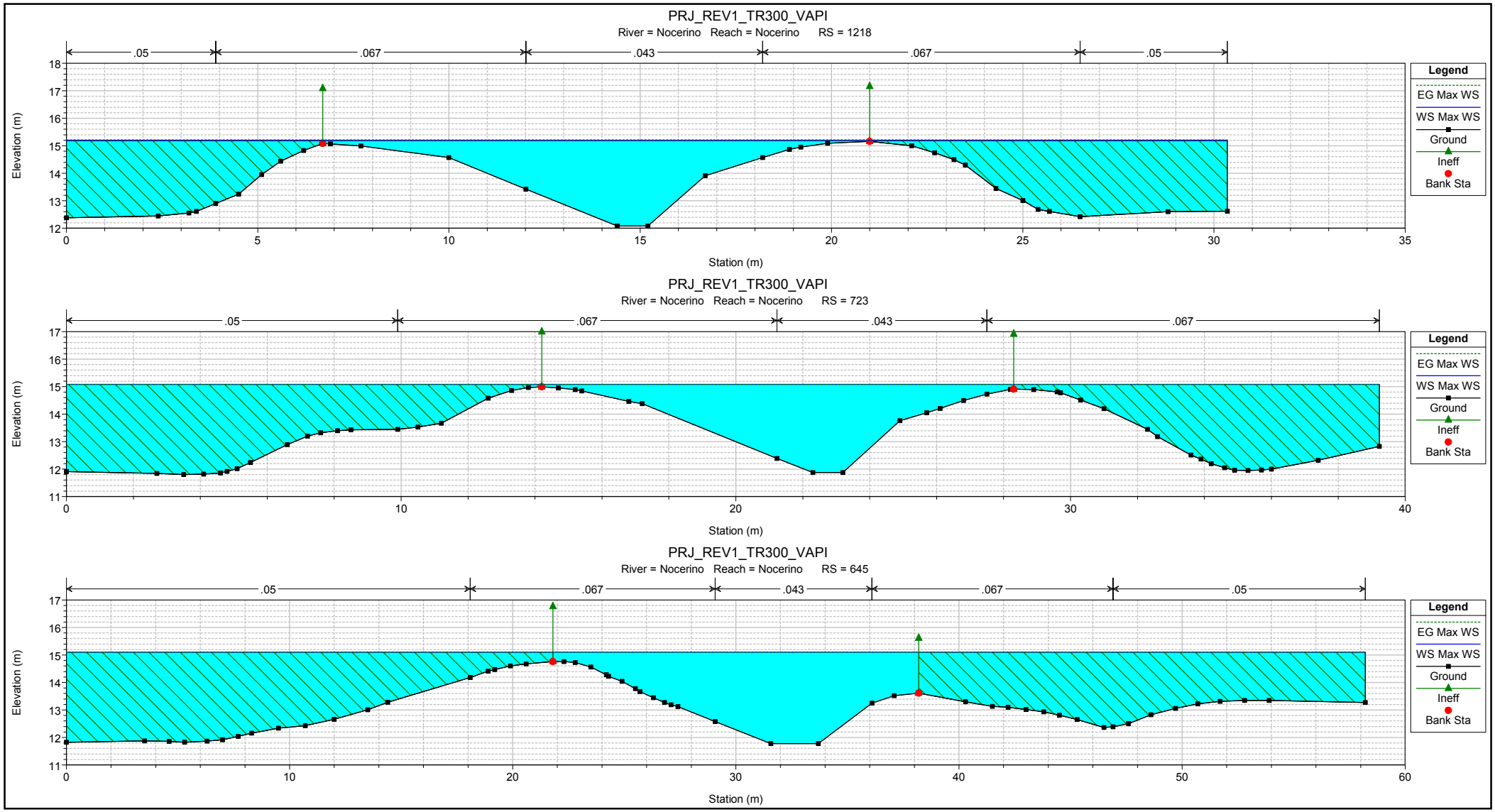

PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6586
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6457
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6401
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

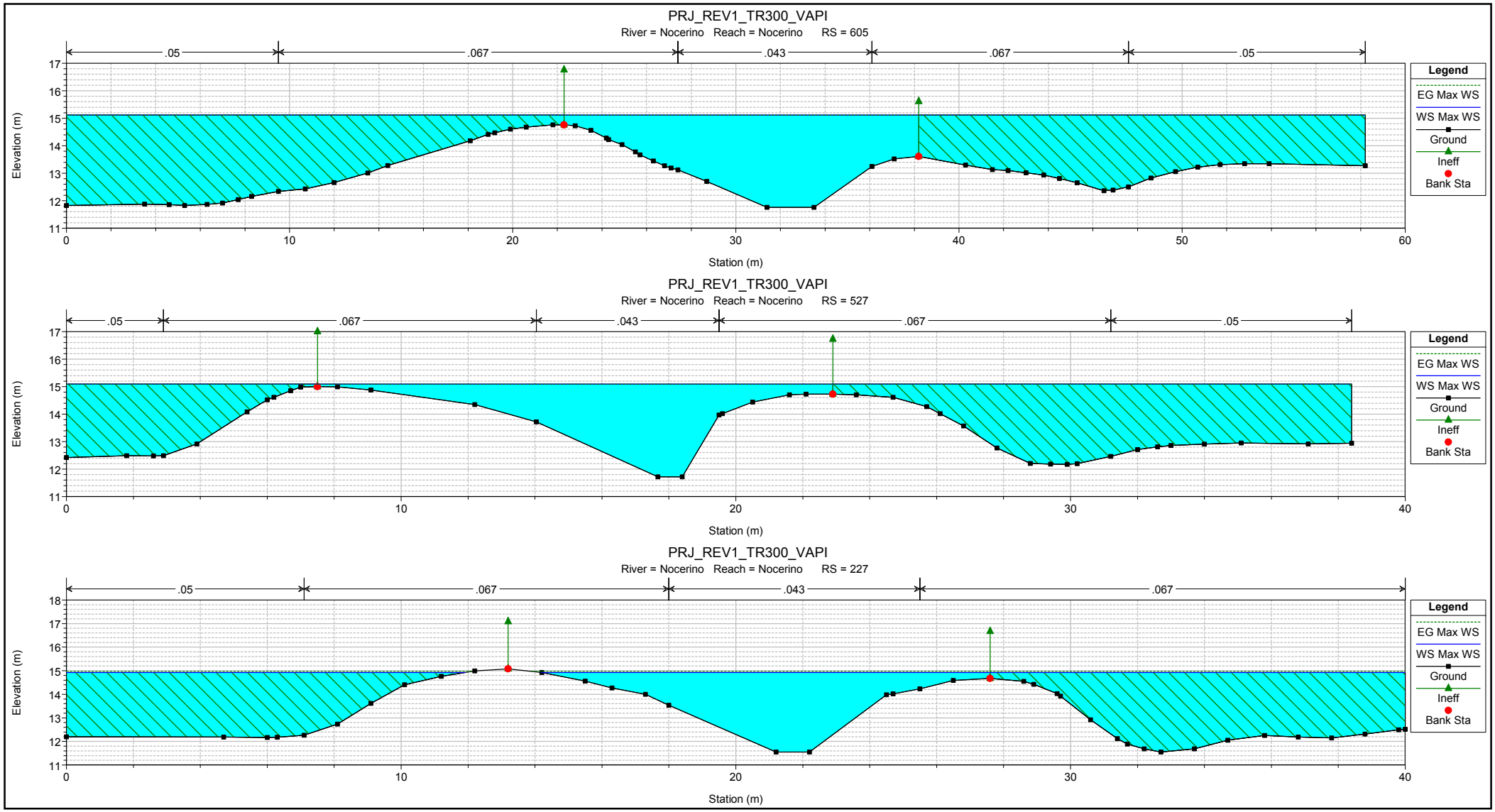

PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 6245
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5962
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5588
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

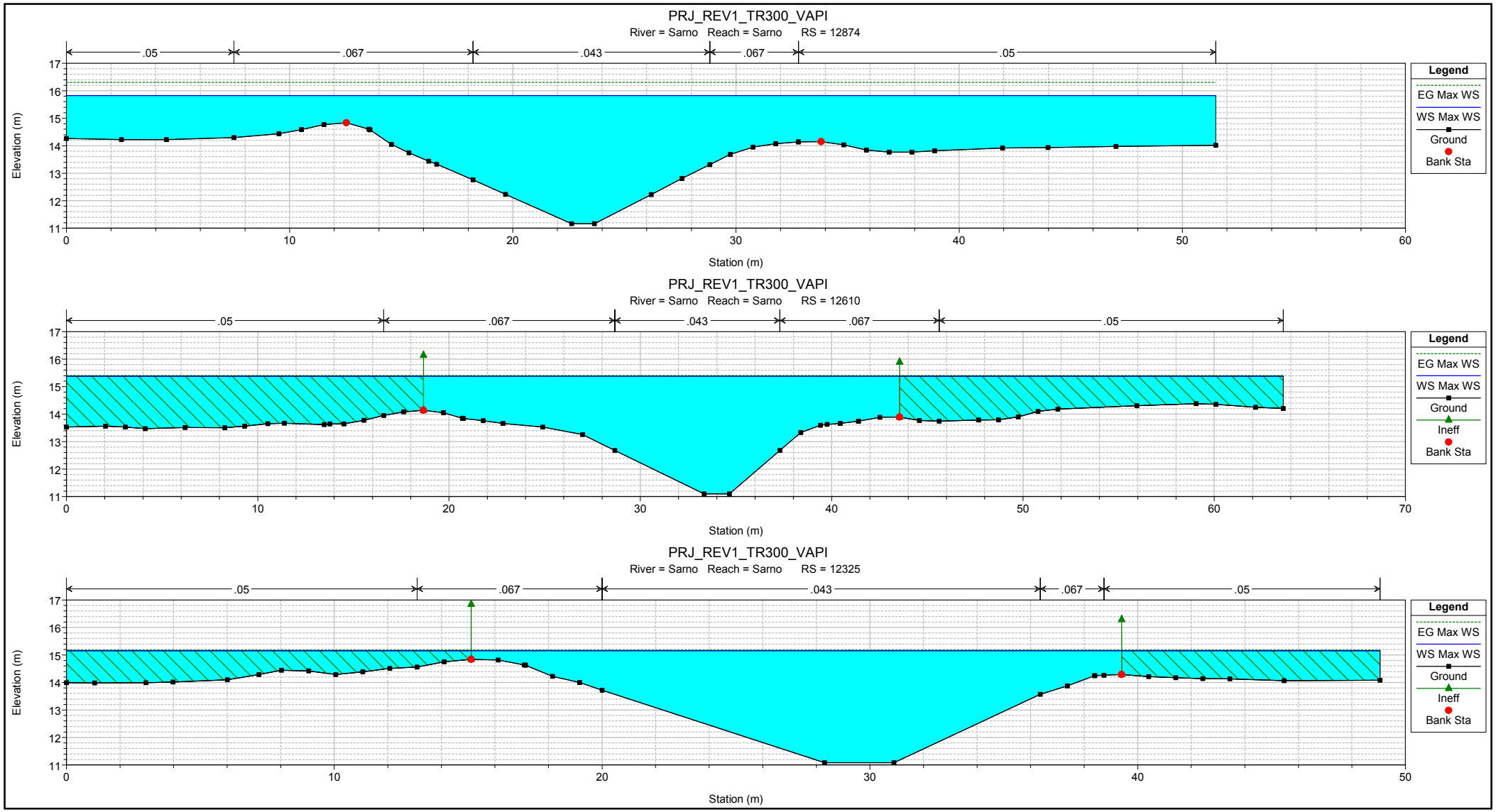

PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5378
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 5278
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

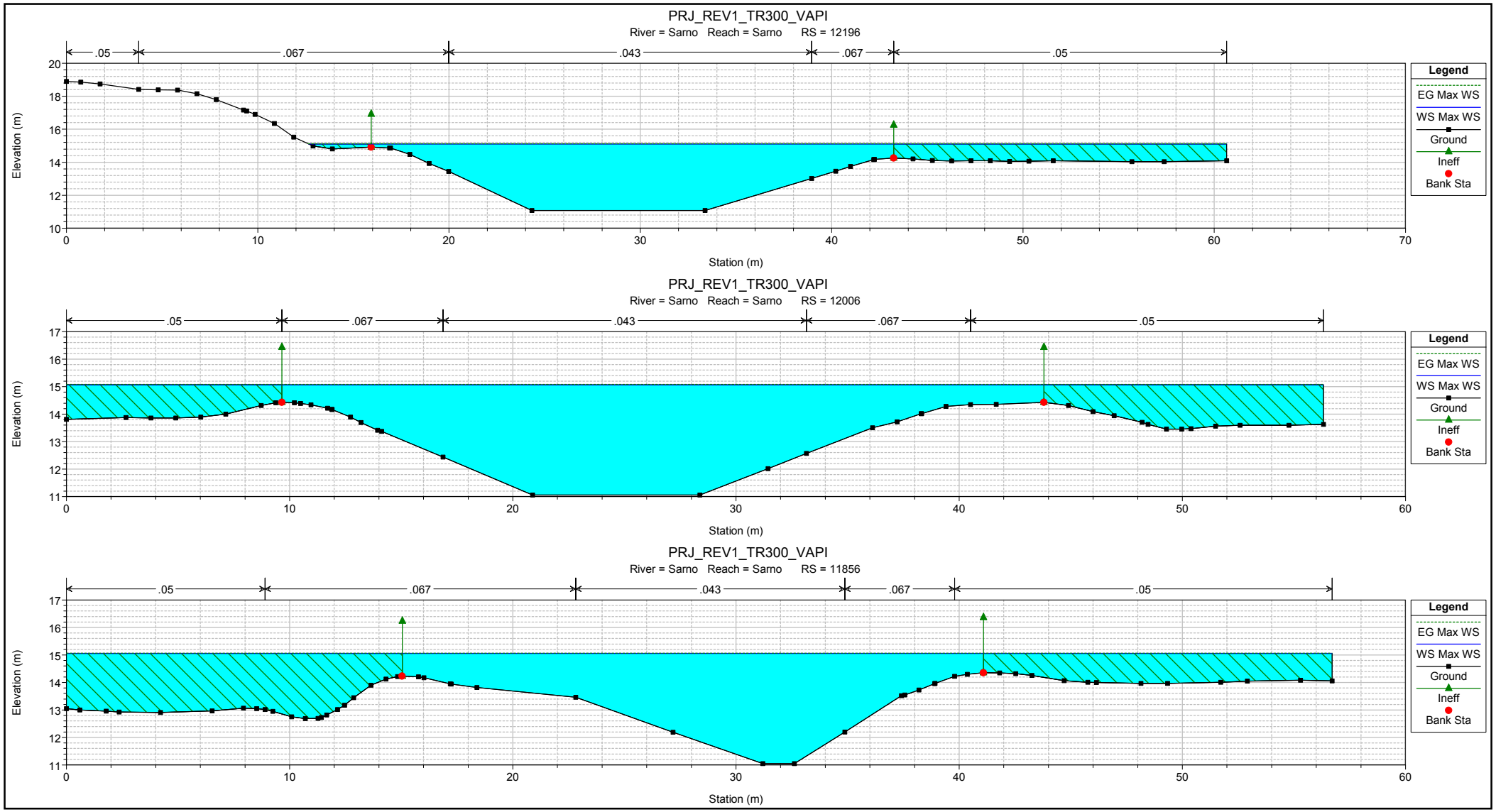

PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 4680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 4336
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 3680
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

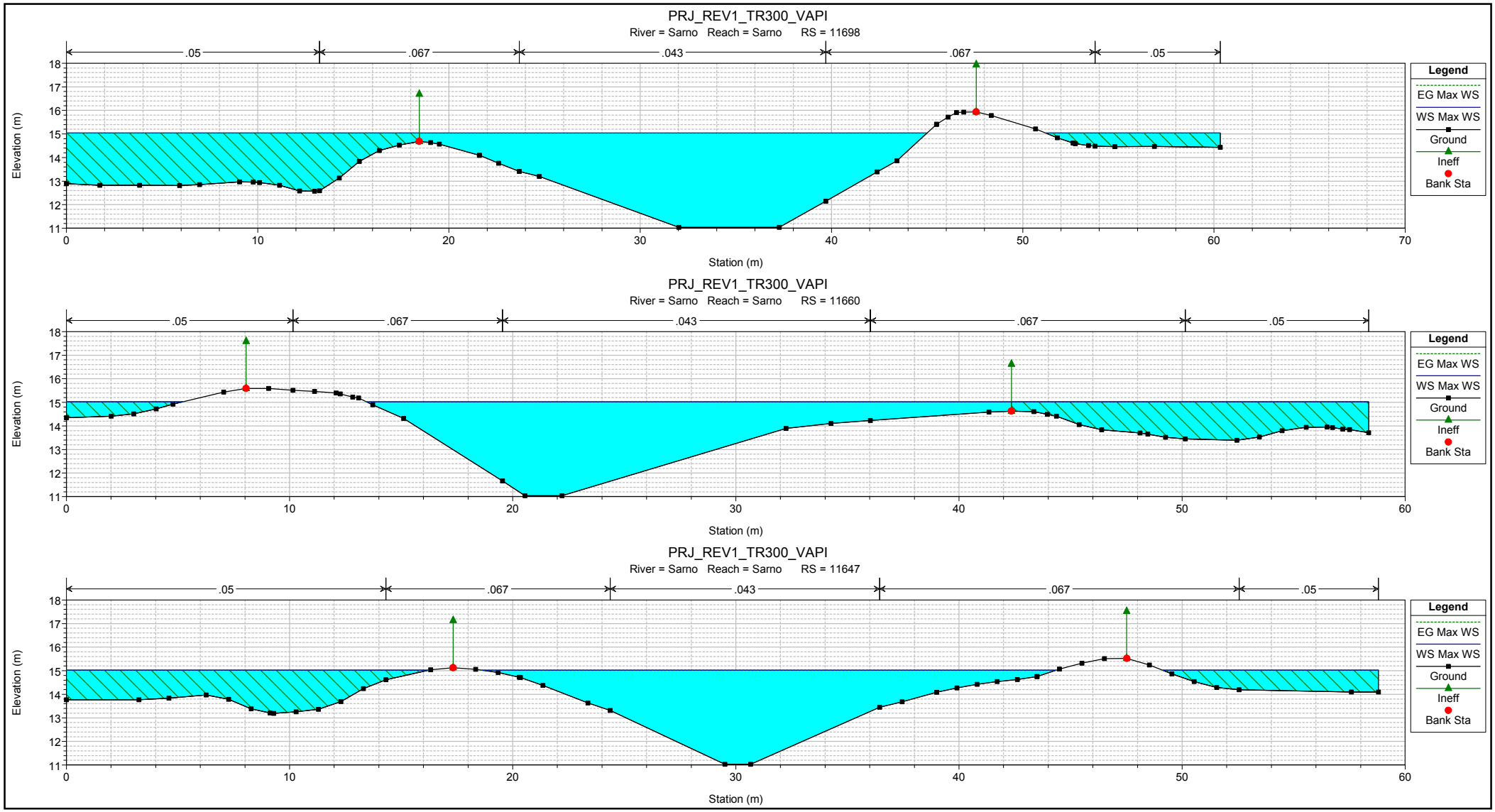

PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 3023
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 2368
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 1711
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

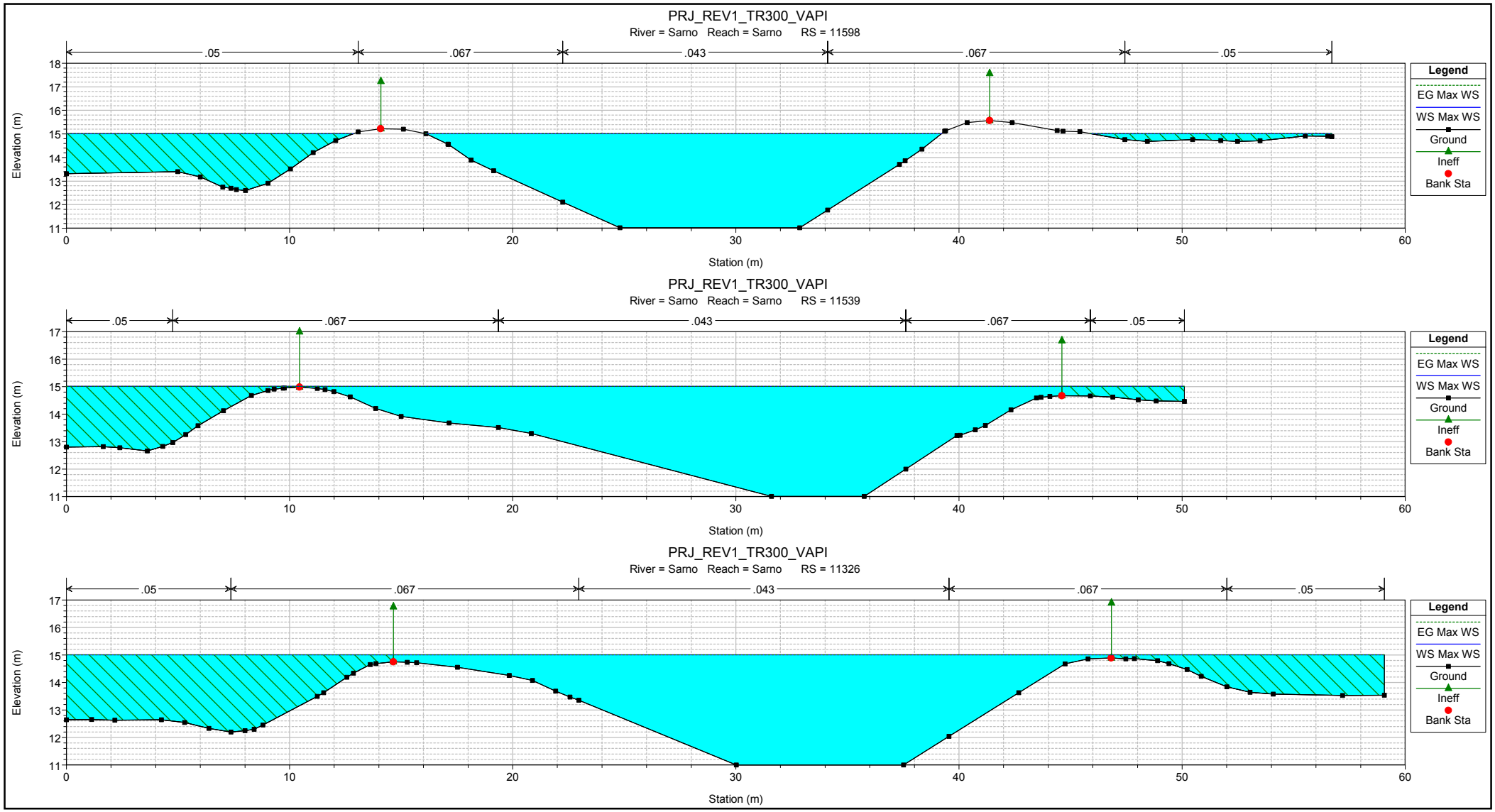

PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 1218
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 723
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 645
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

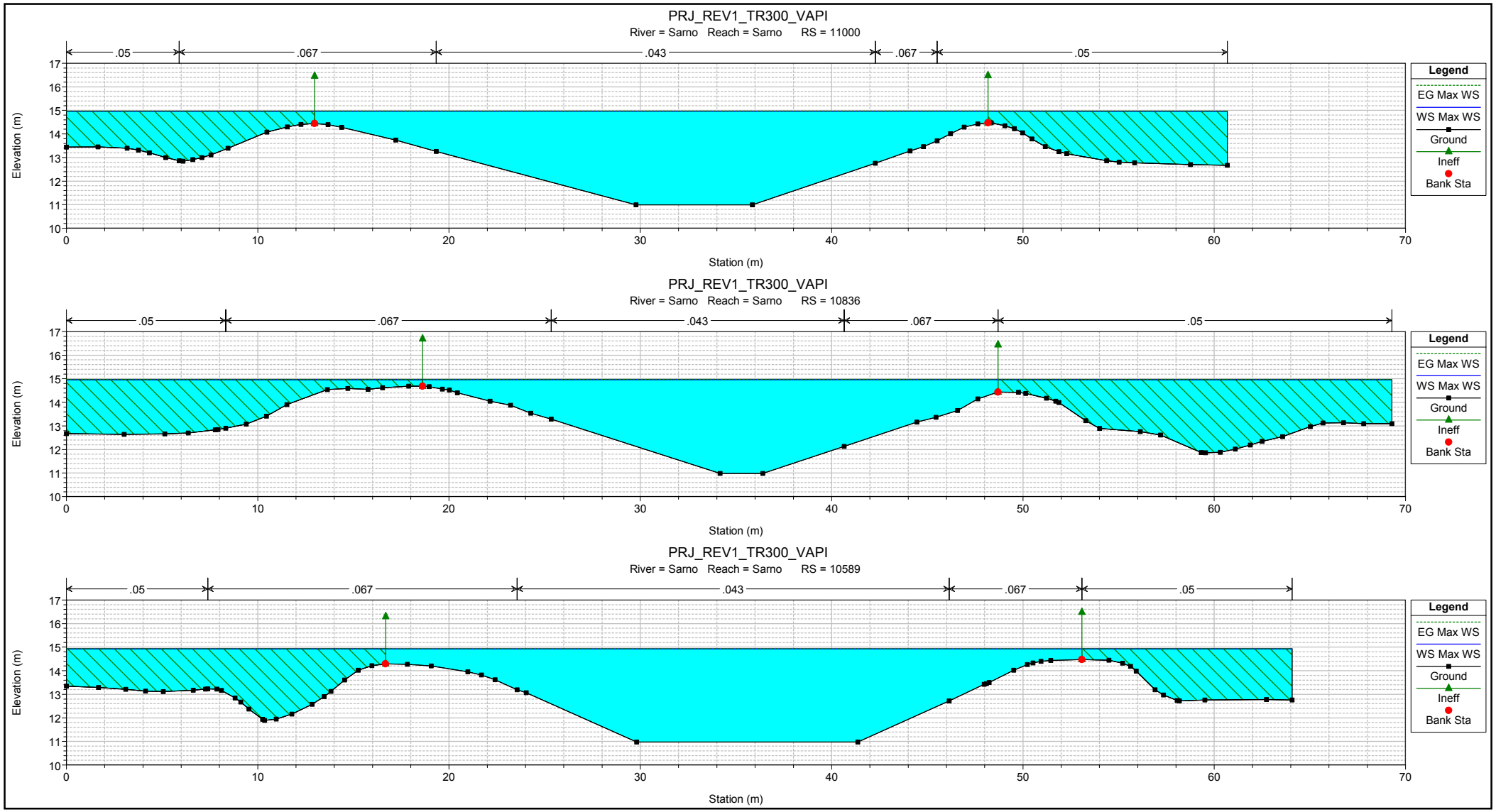

PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 605
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 527
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Nocerino Reach = Nocerino RS = 227
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

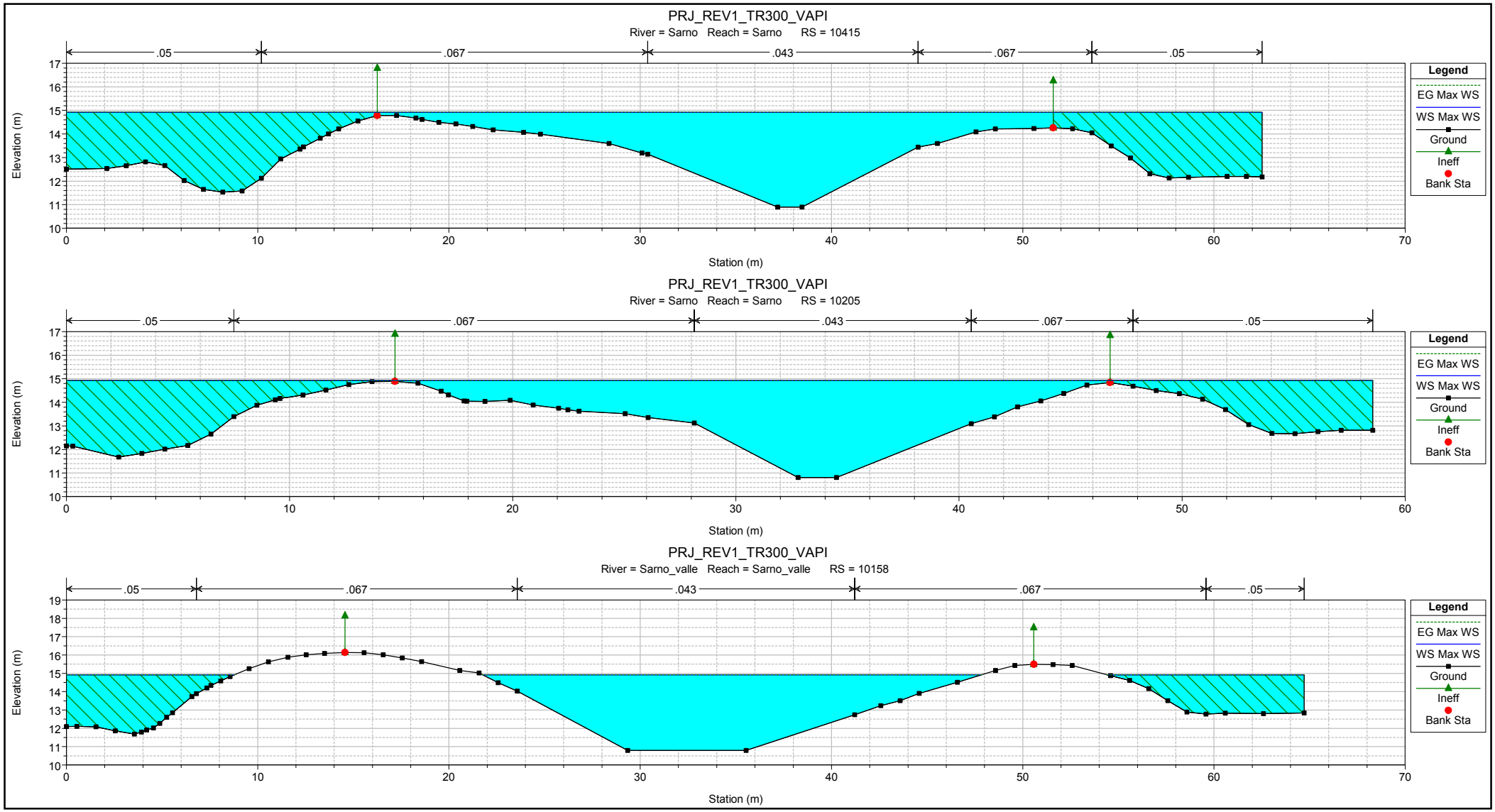

PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12874
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12610
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12325
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

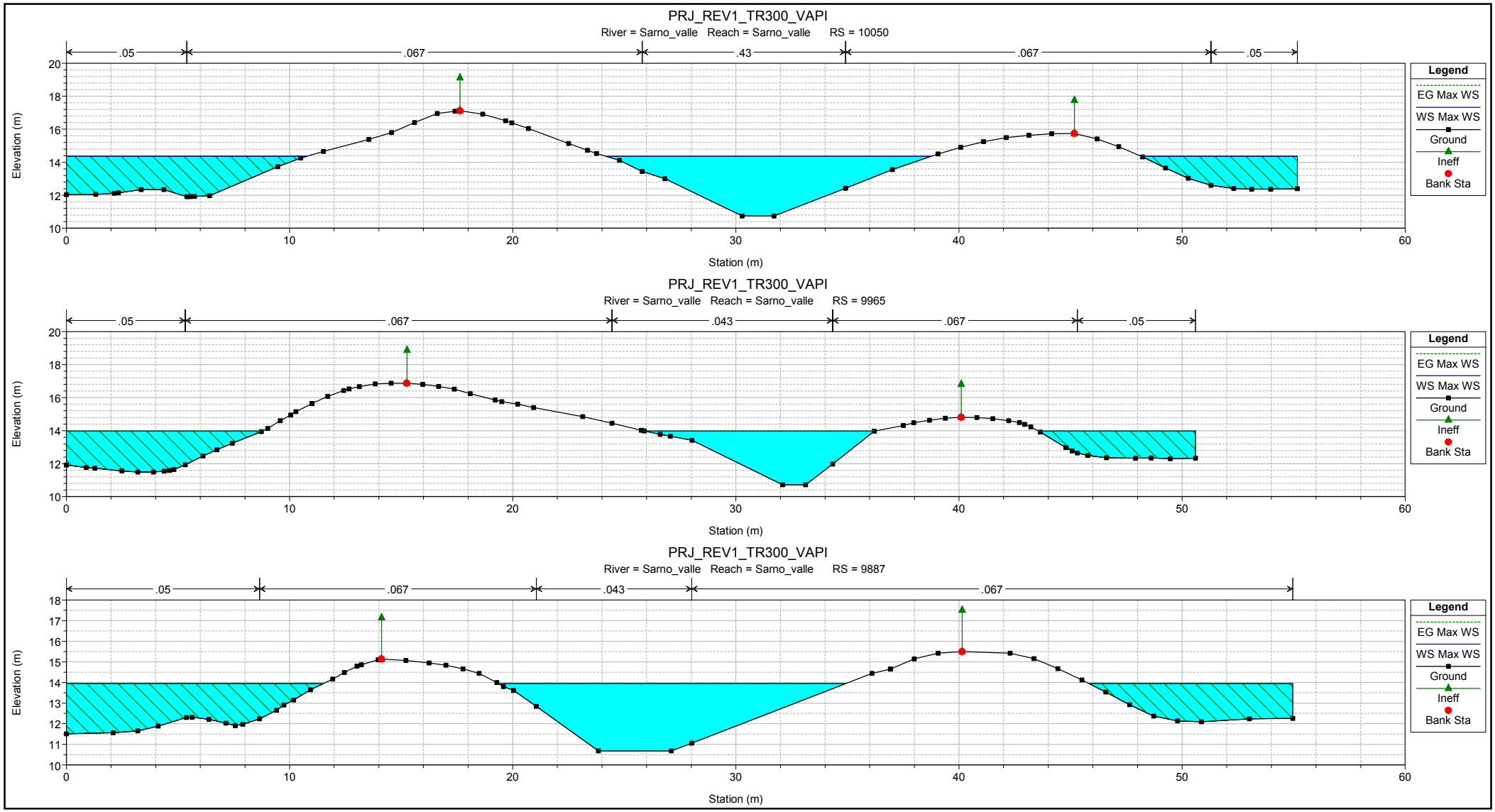

PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12196
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 12006
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11856
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

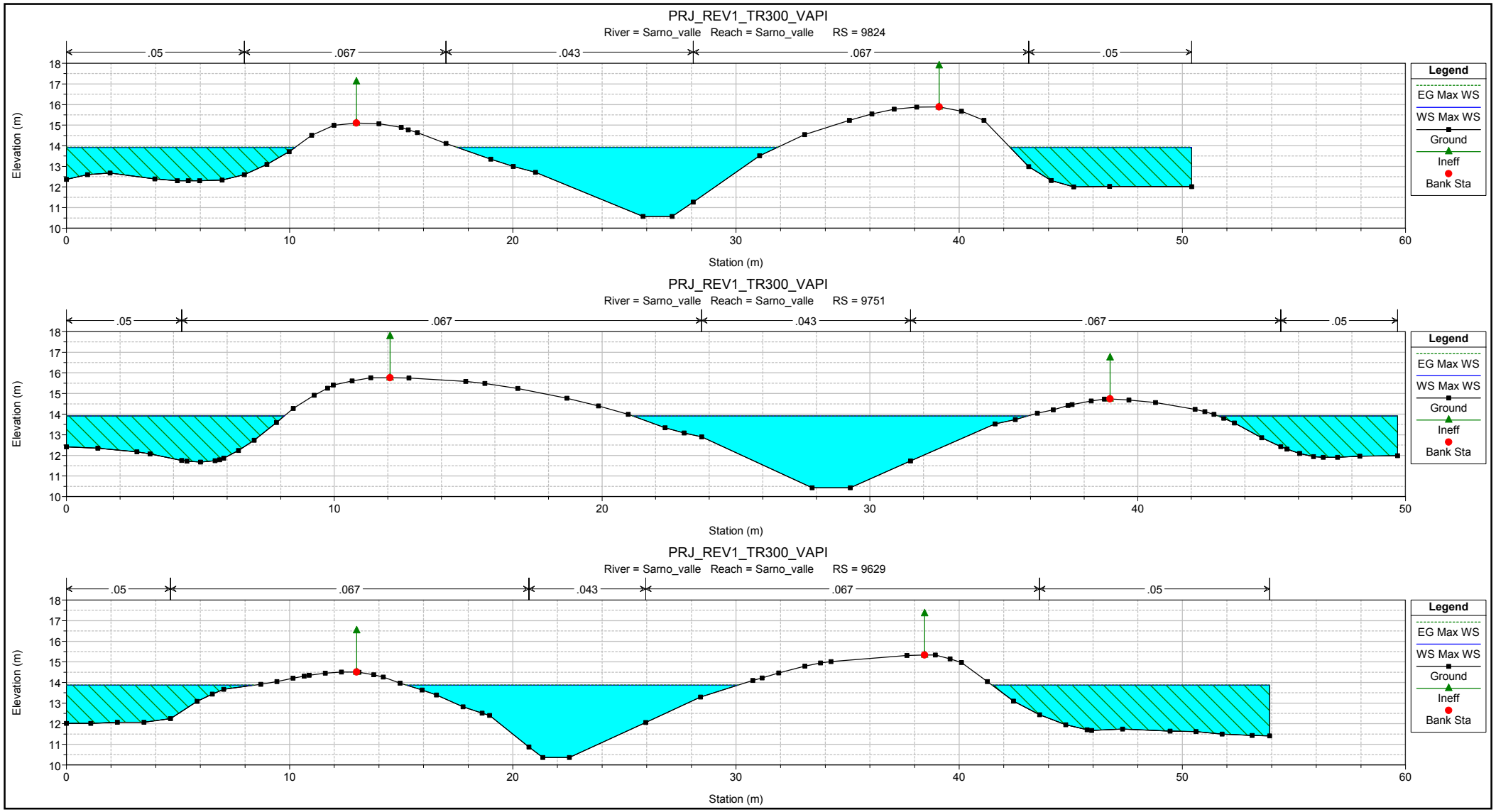

PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11698
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11660
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11647
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

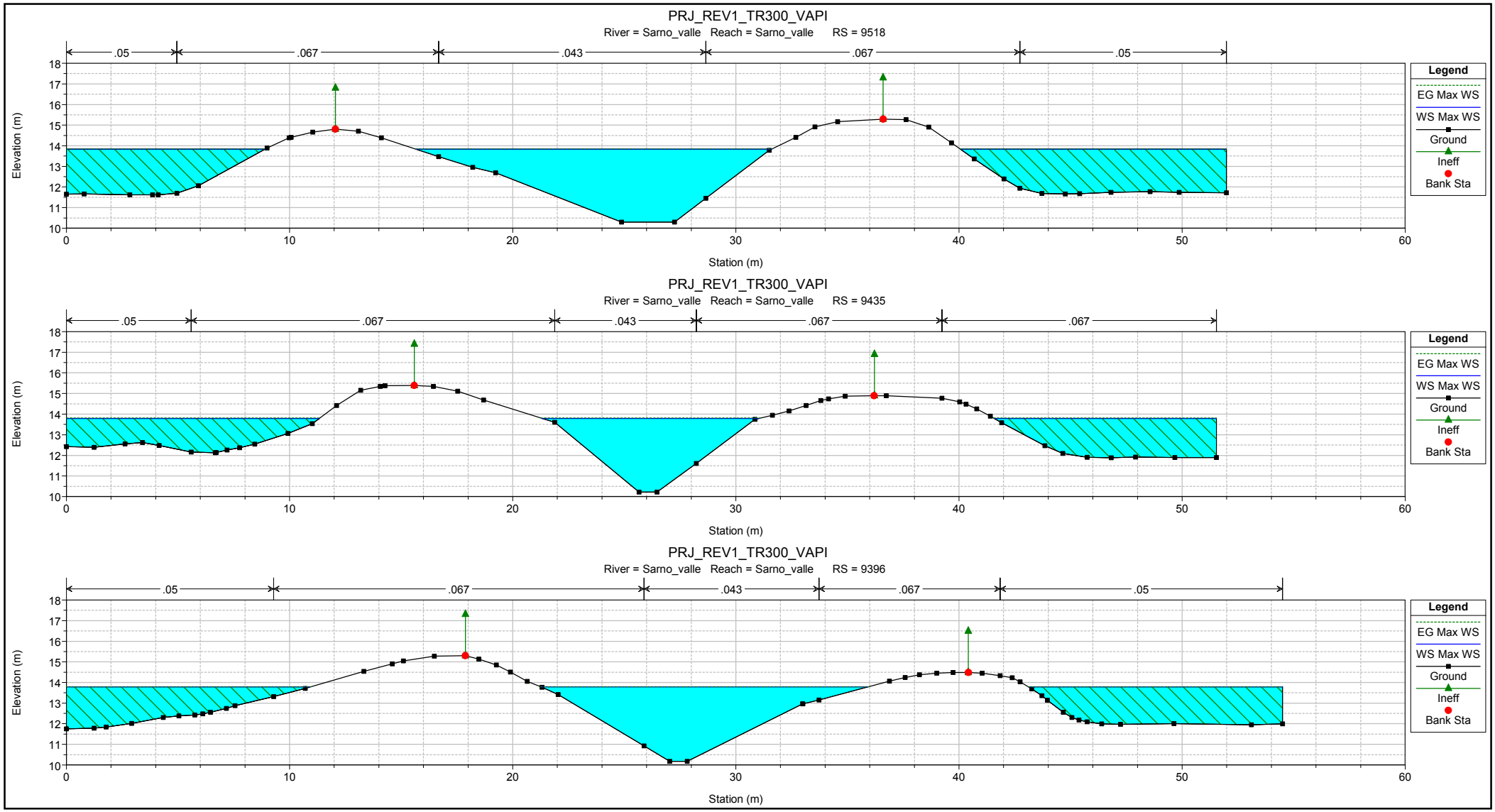

PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11598
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11539
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11326
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

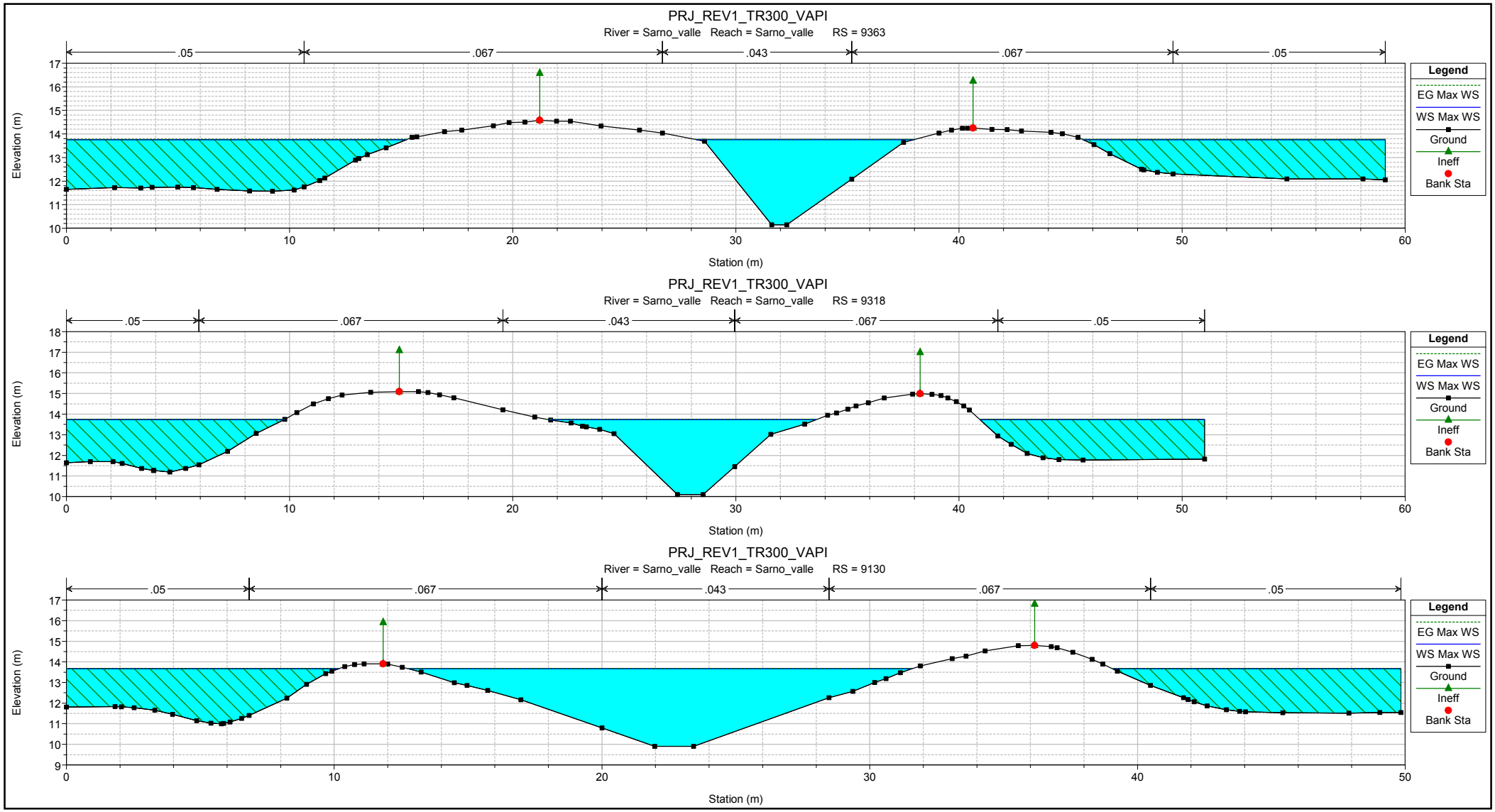

PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 11000
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 10836
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 10589
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

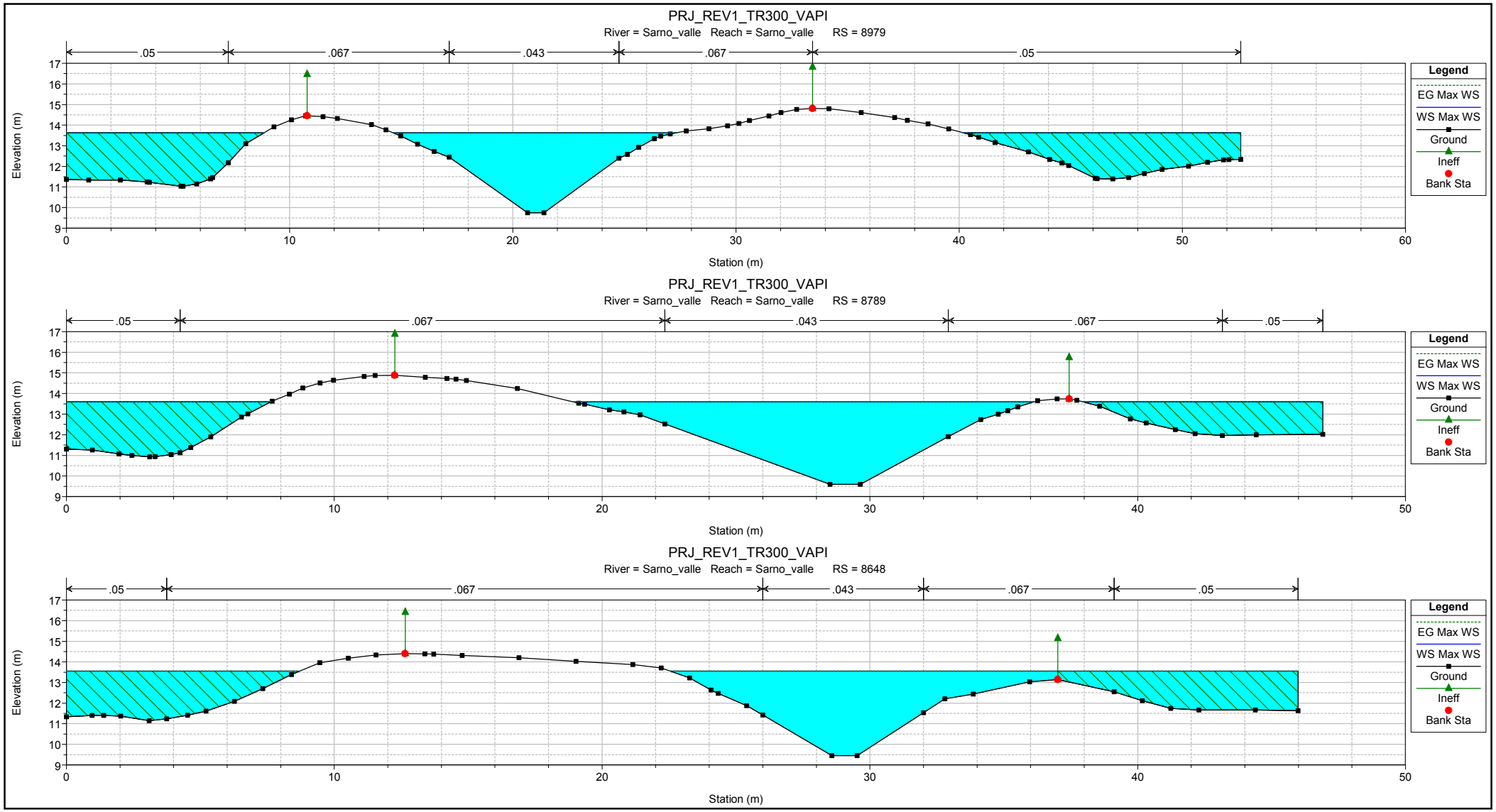

PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 10415
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno Reach = Sarno RS = 10205
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10158
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

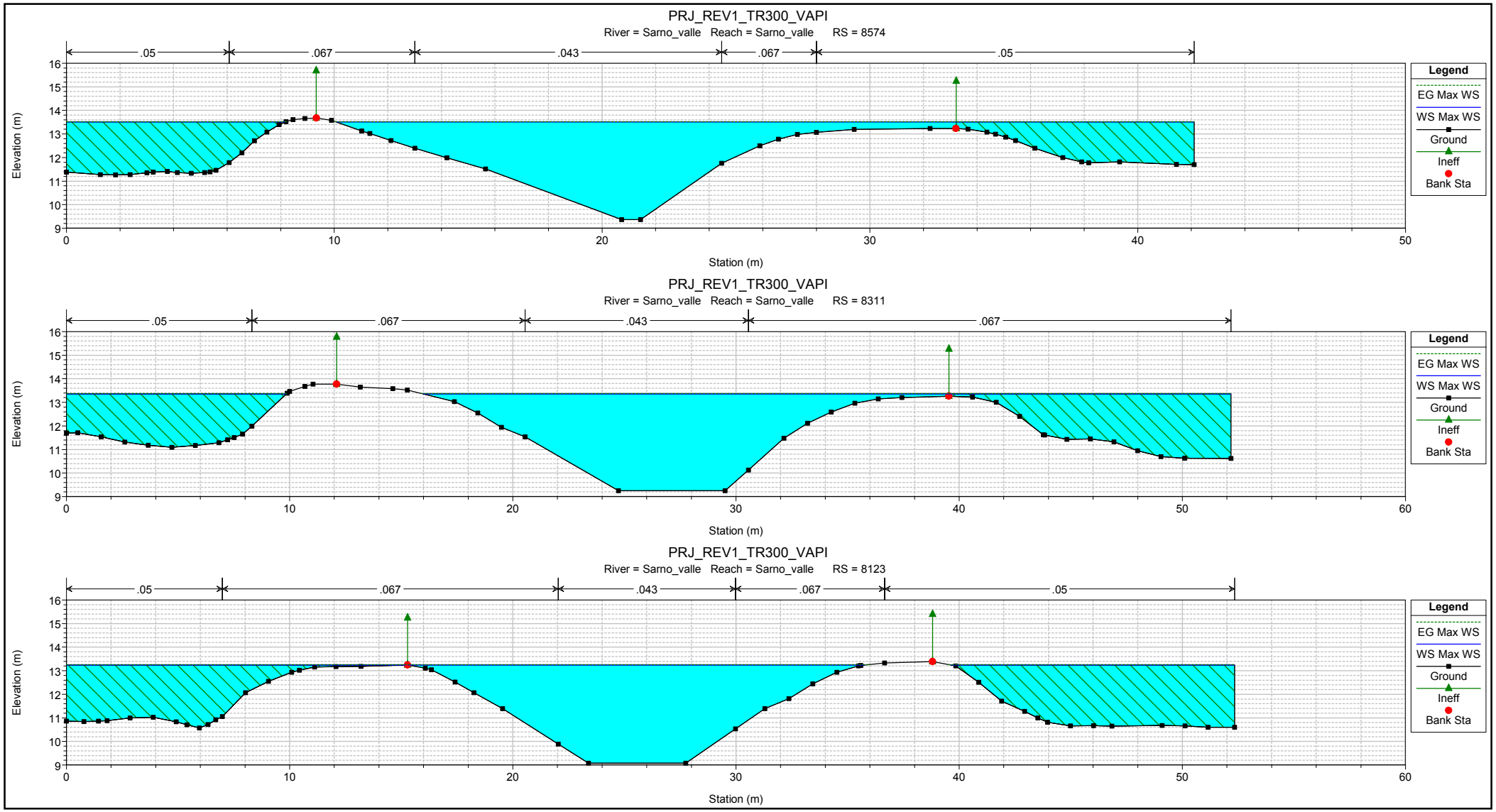

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 10050
.05
.067
.43
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9965
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9887
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

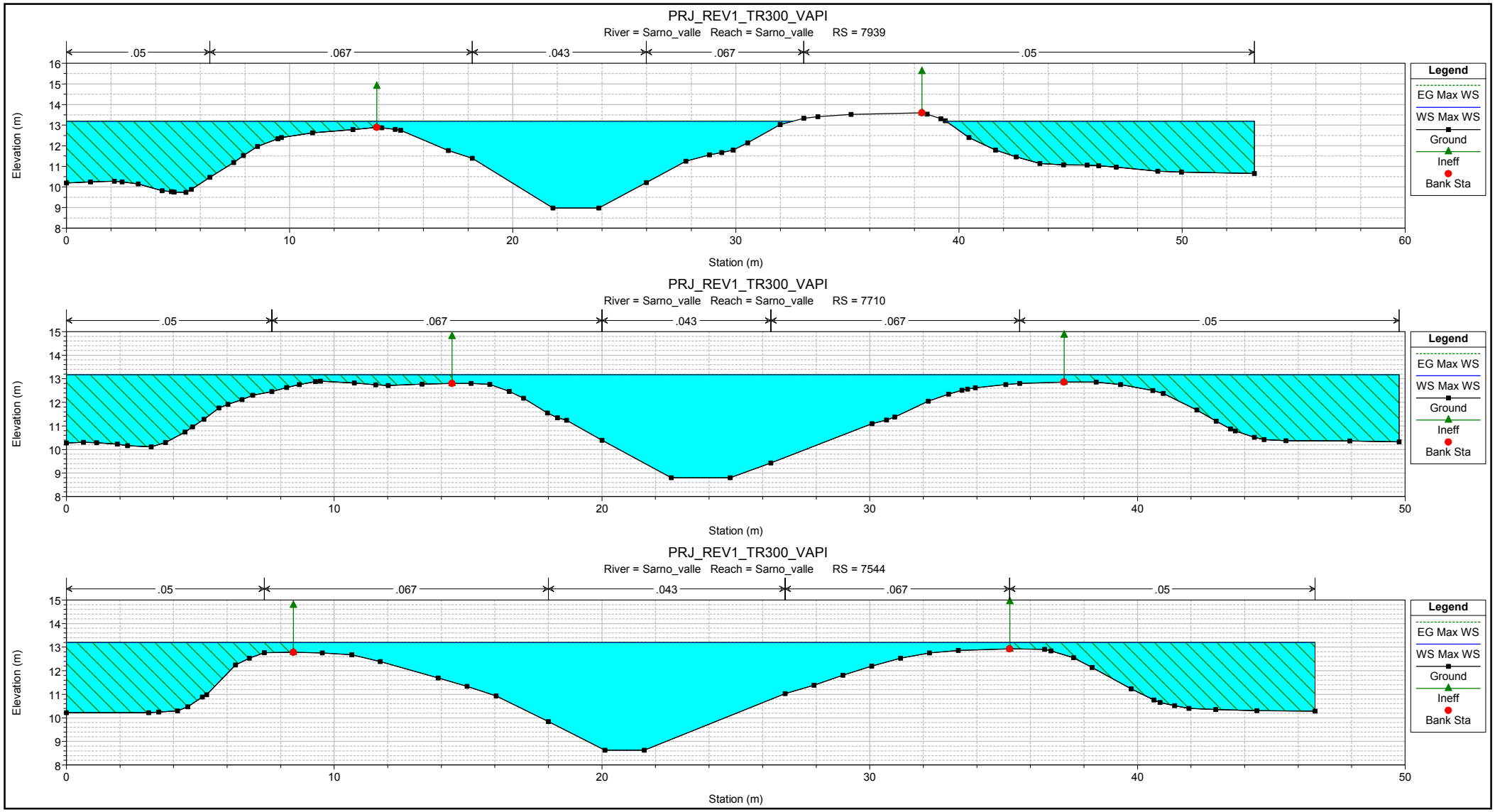

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9824
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9629
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

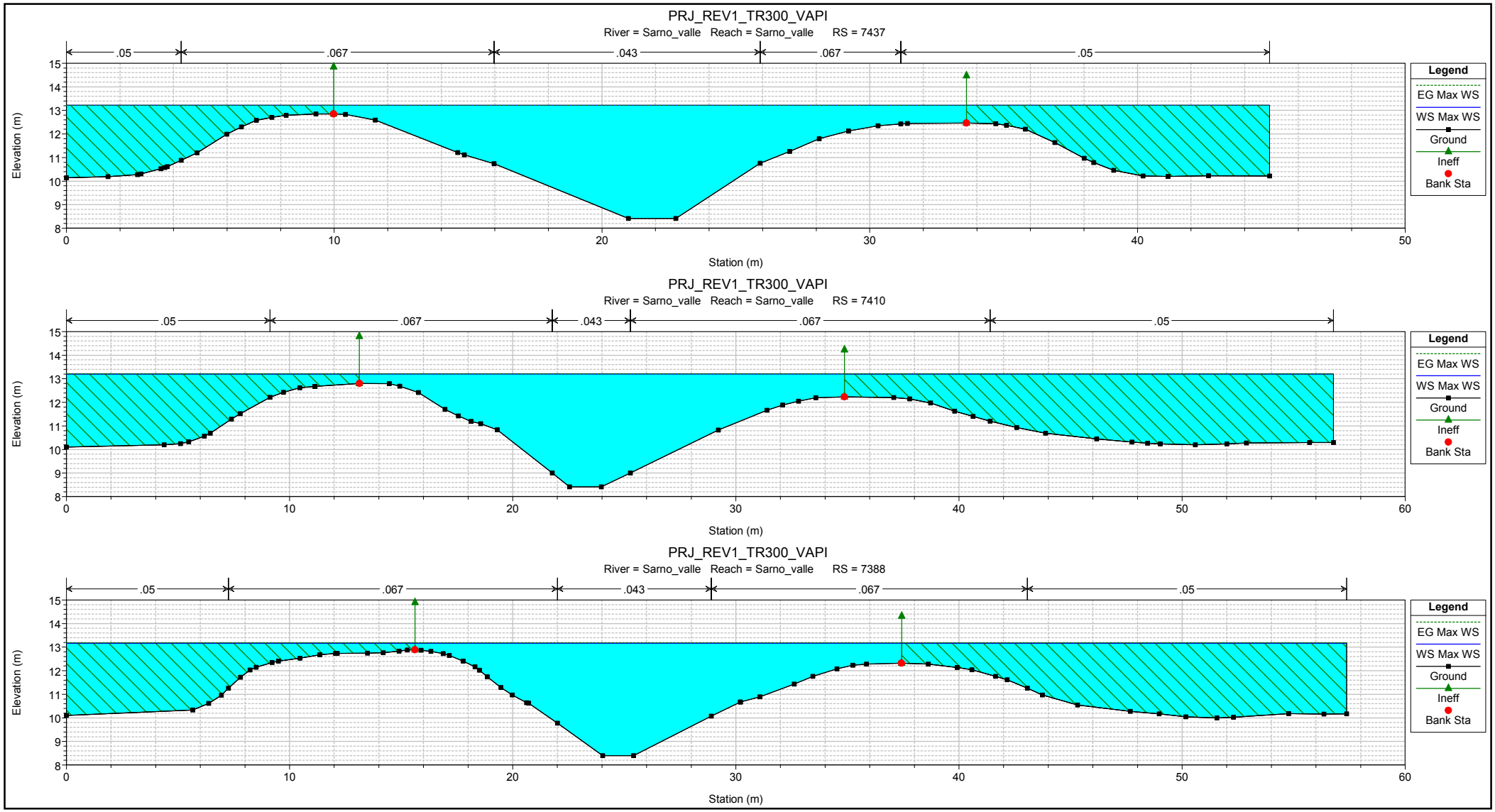

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9518
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9435
.05
.067
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9396
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

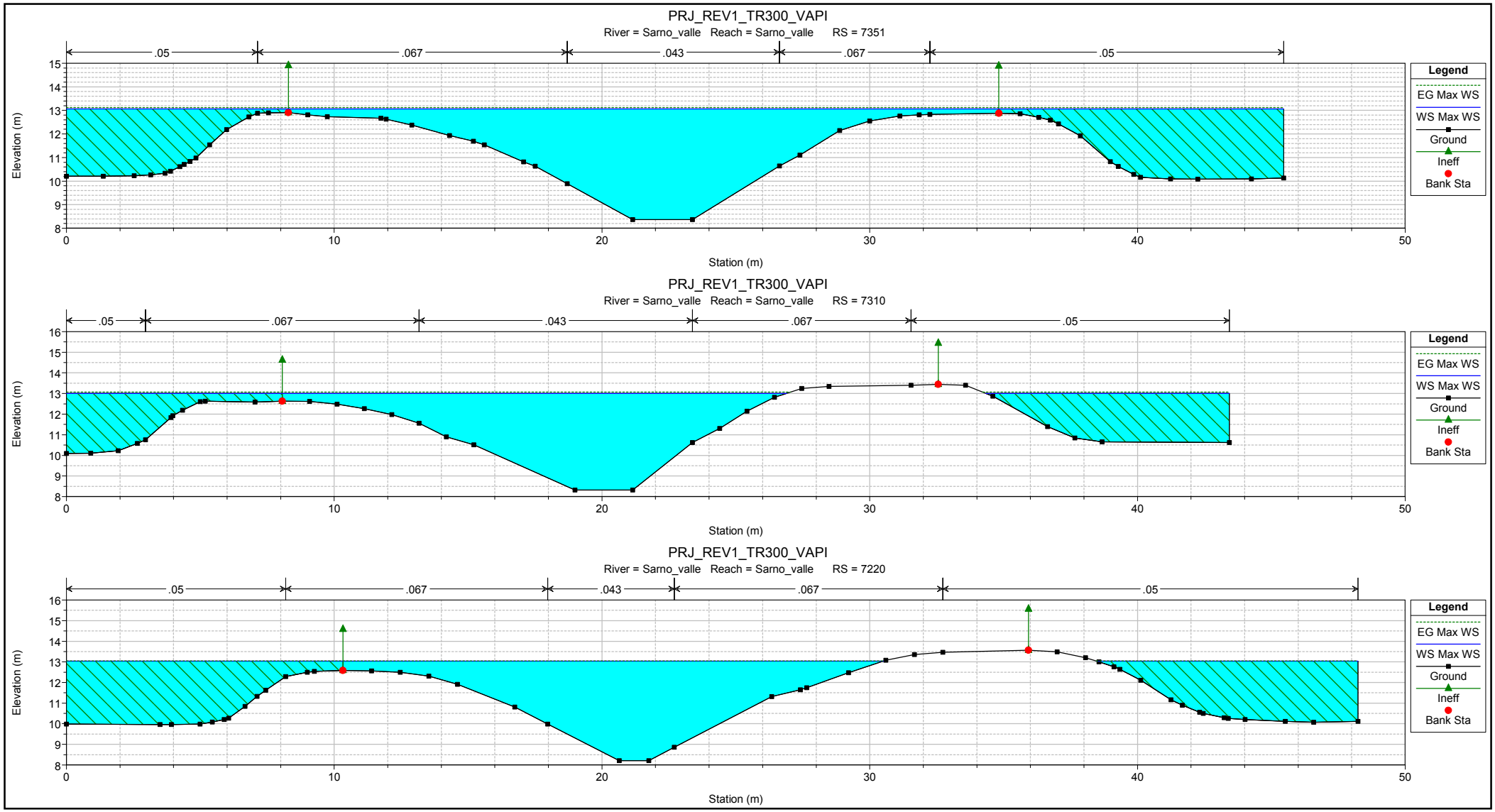

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9363
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9318
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 9130
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

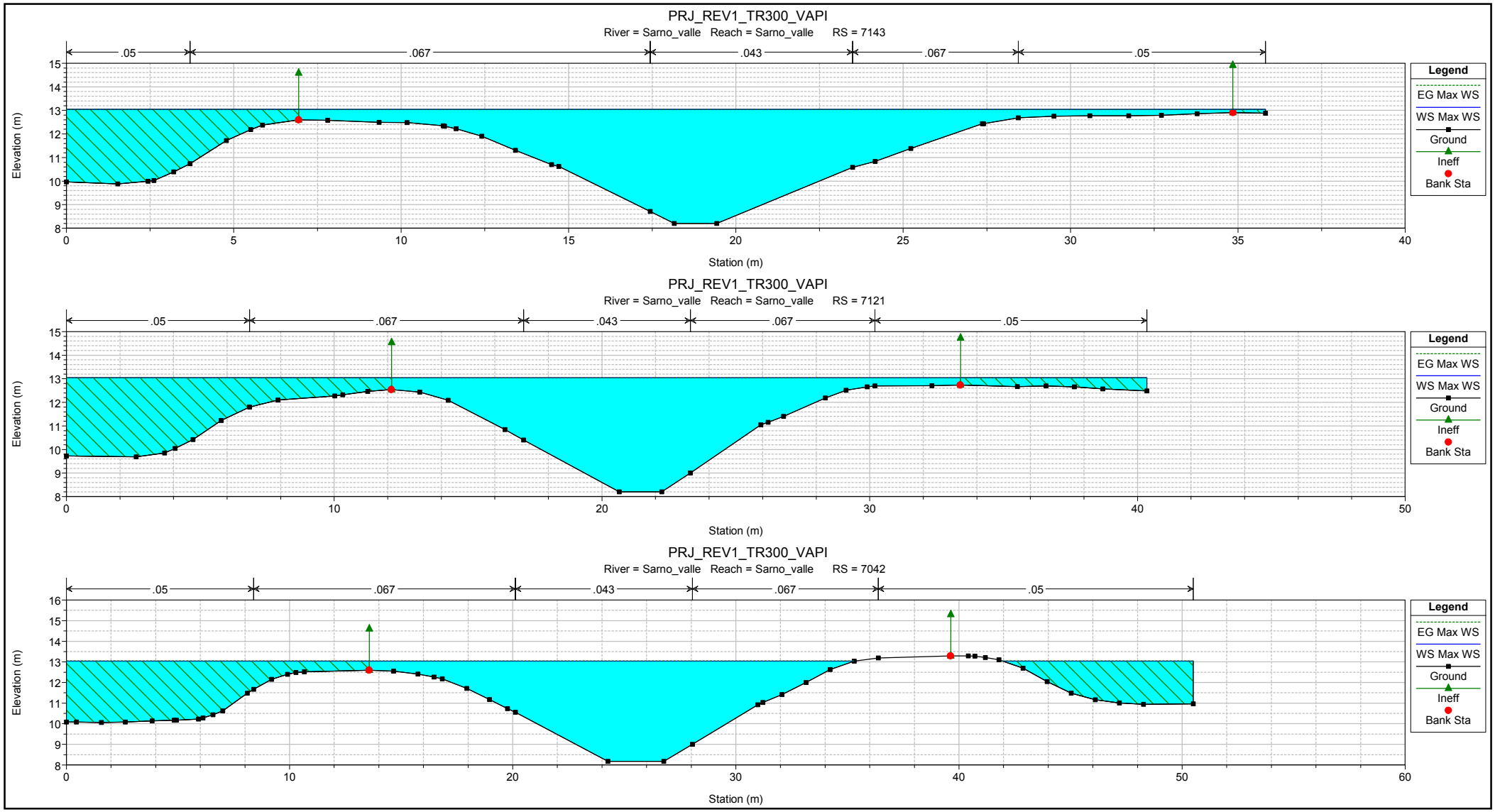

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8979
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8789
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8648
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

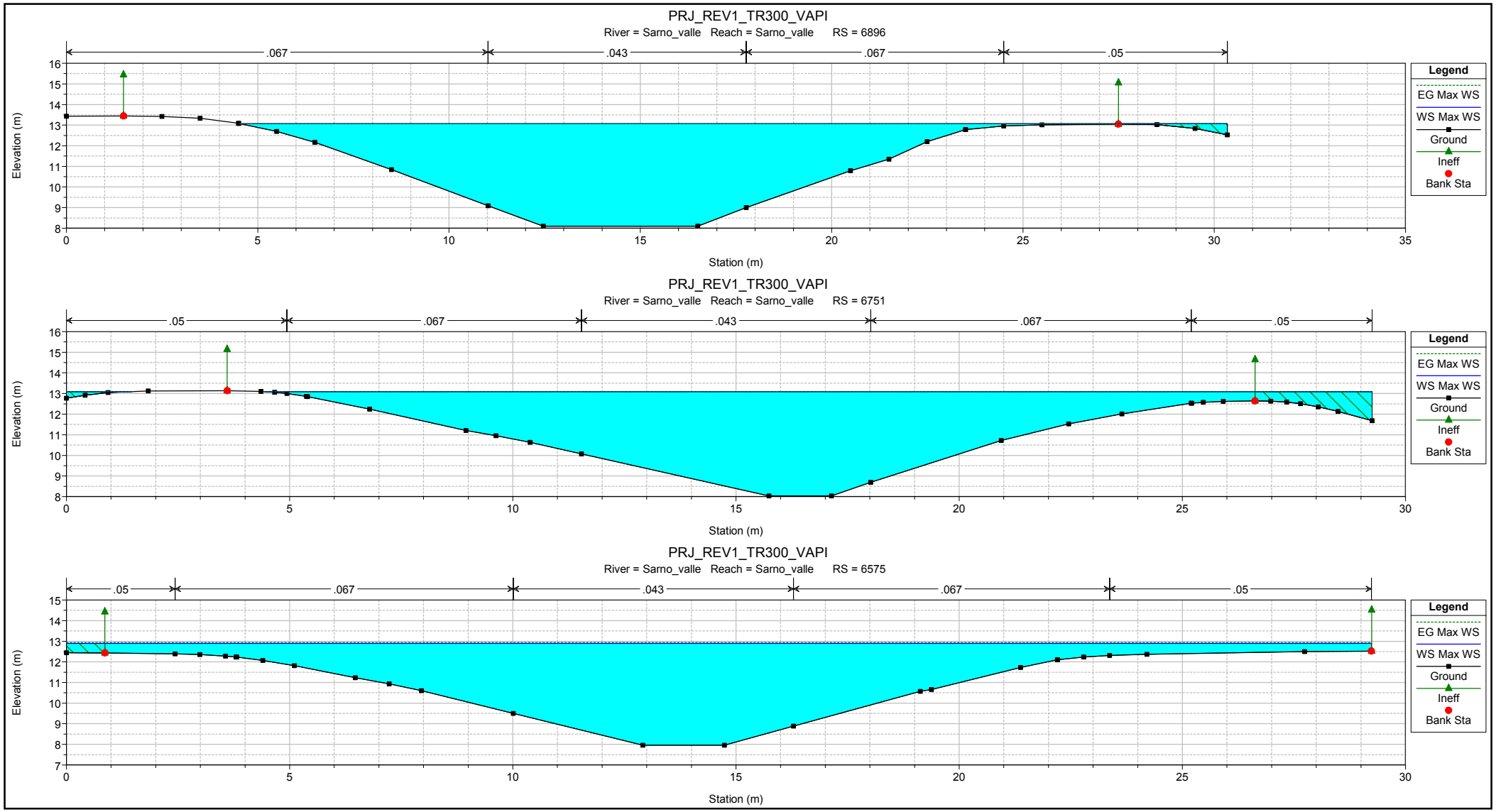

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8574
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8311
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 8123
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

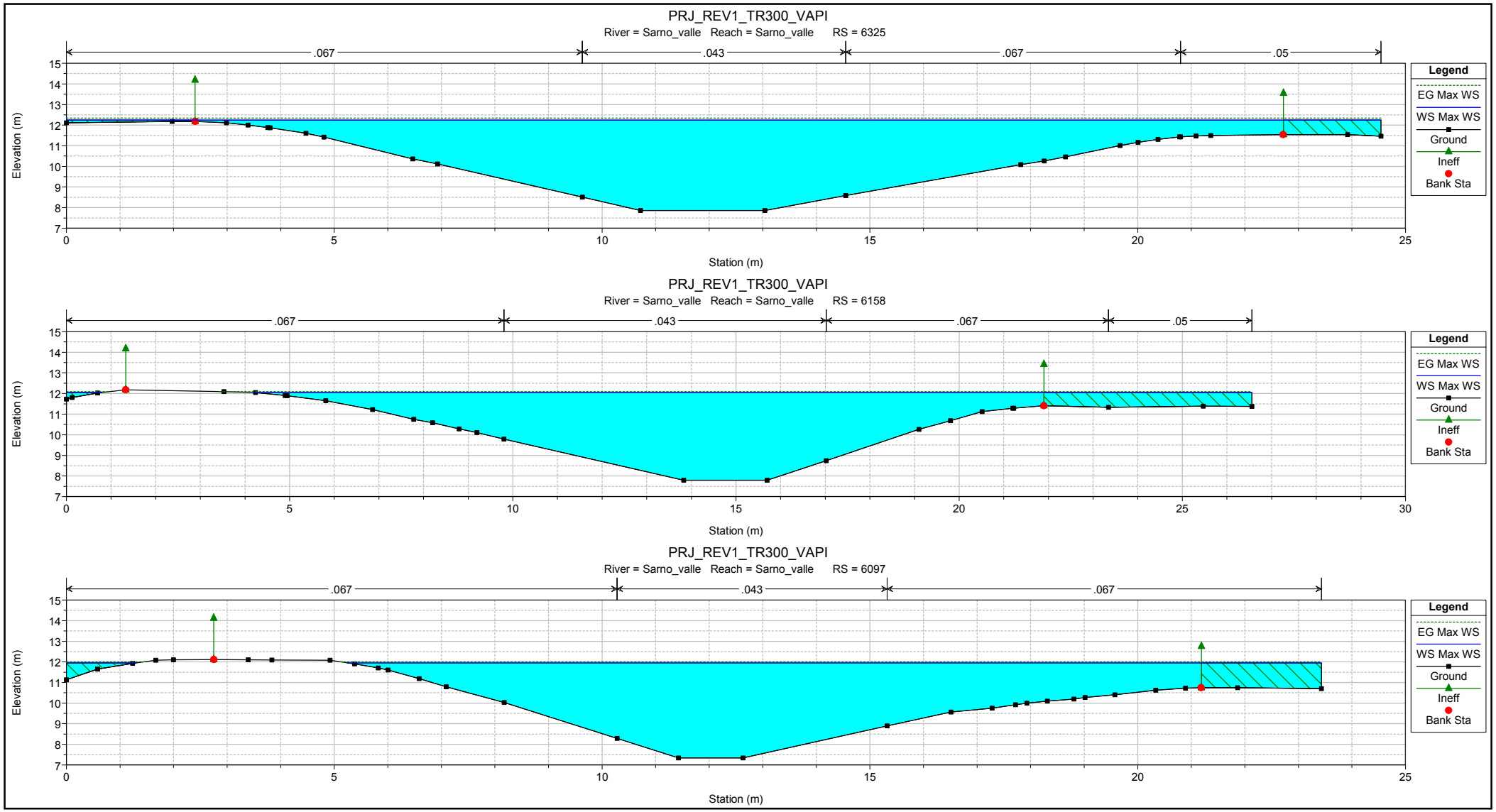

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7939
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7710
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7544
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

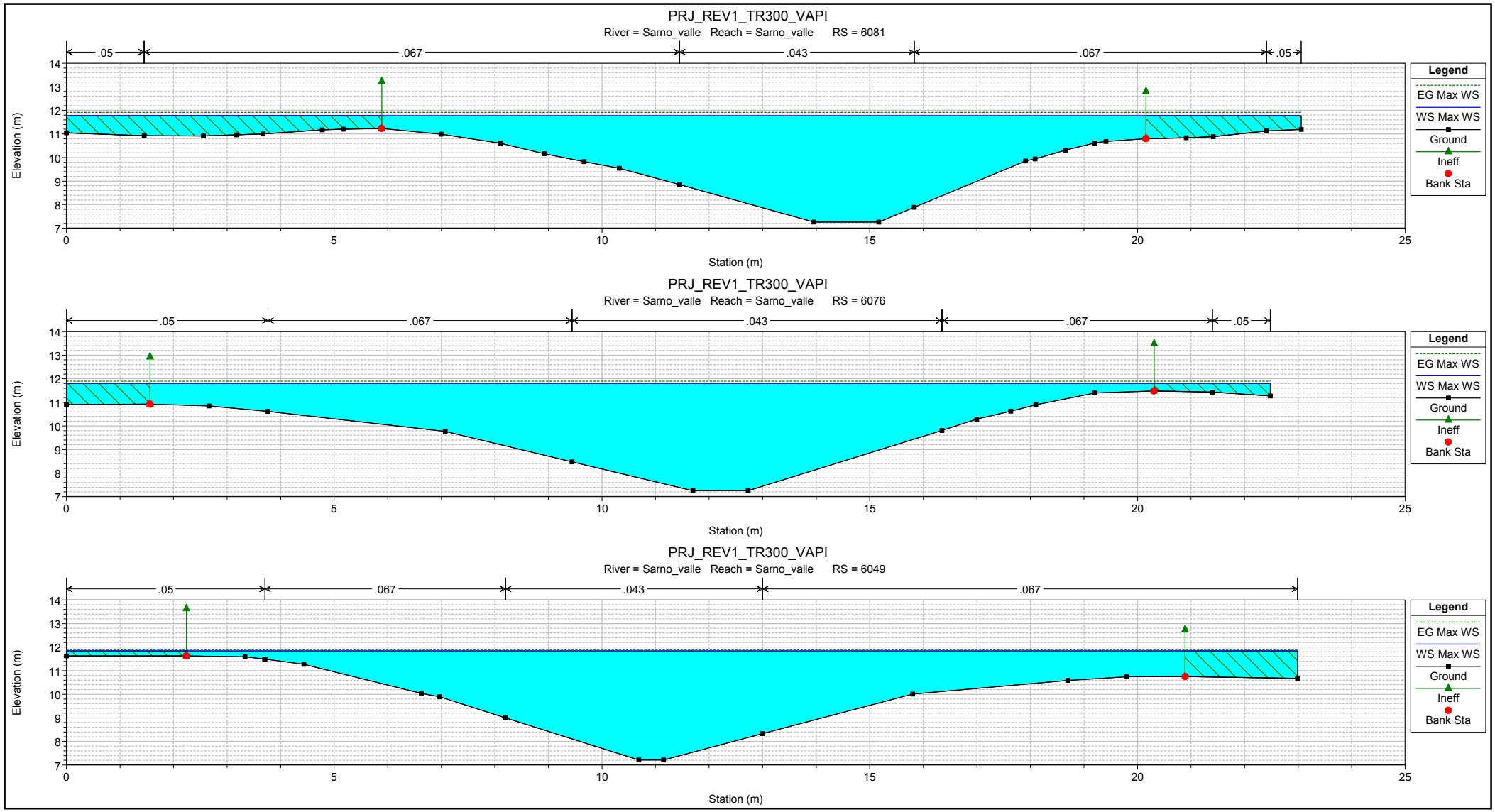

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7437
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7410
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7388
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

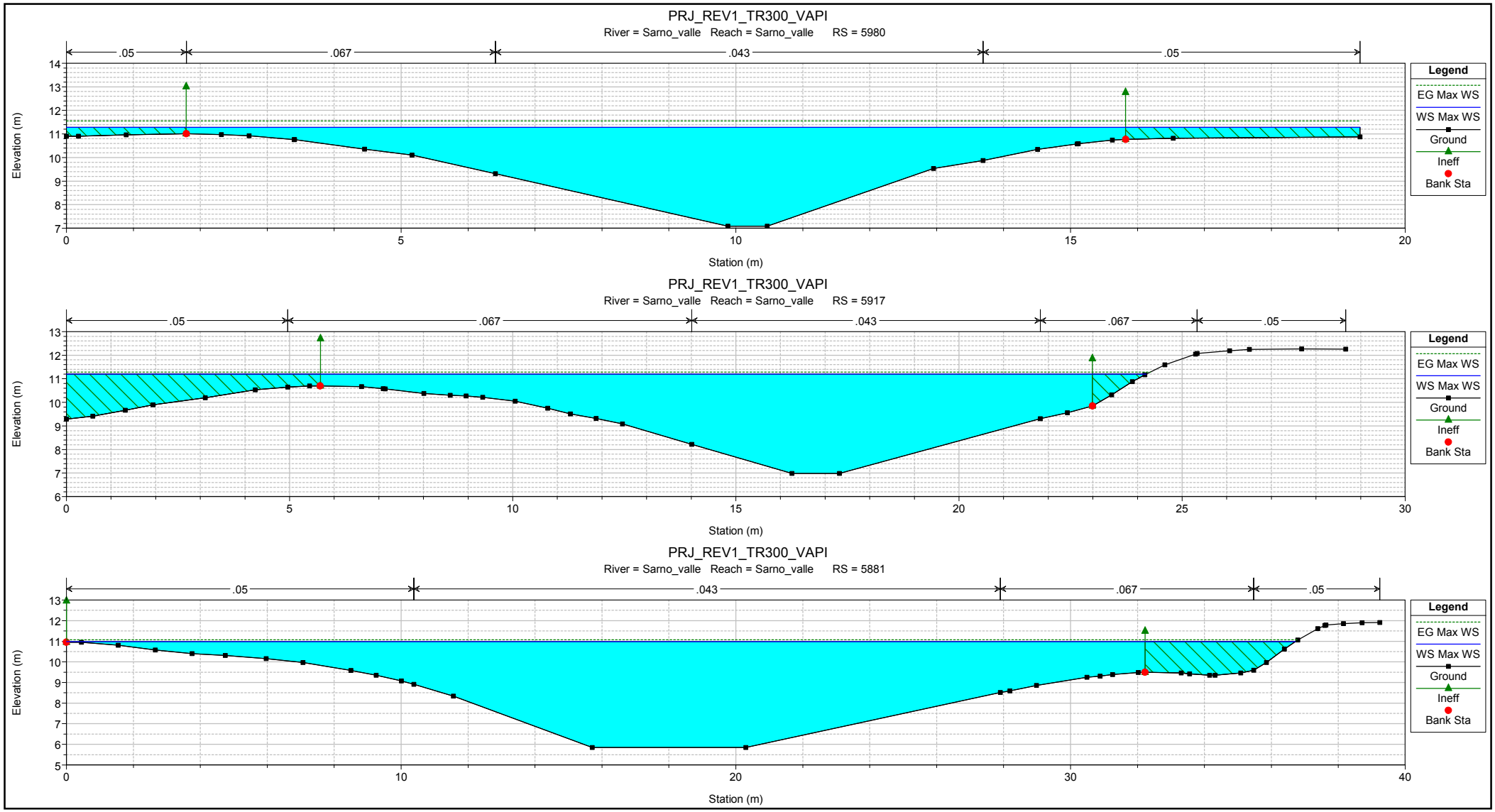

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7310
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

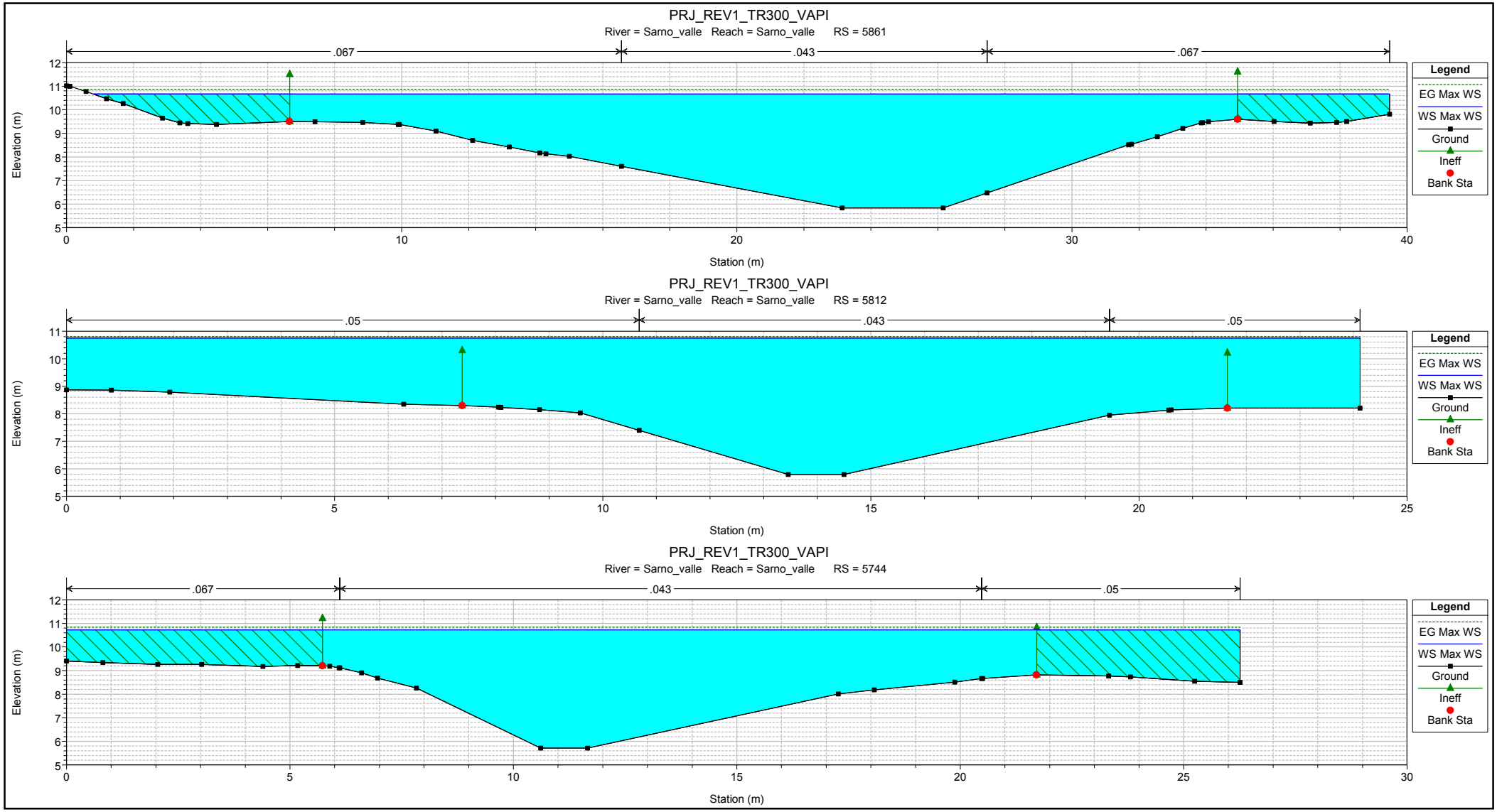

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7143
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7121
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 7042
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

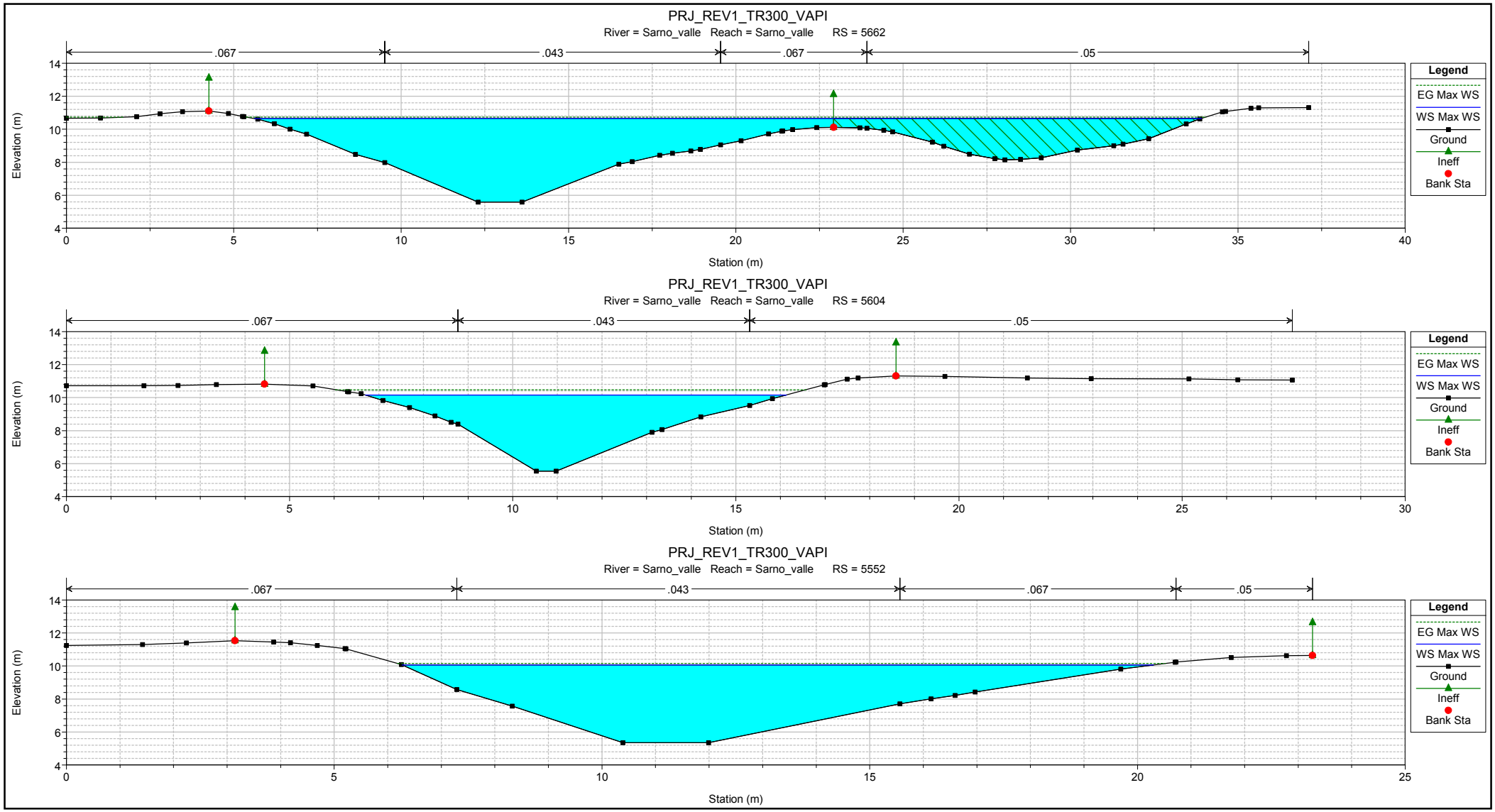

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6896
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6751
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6575
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

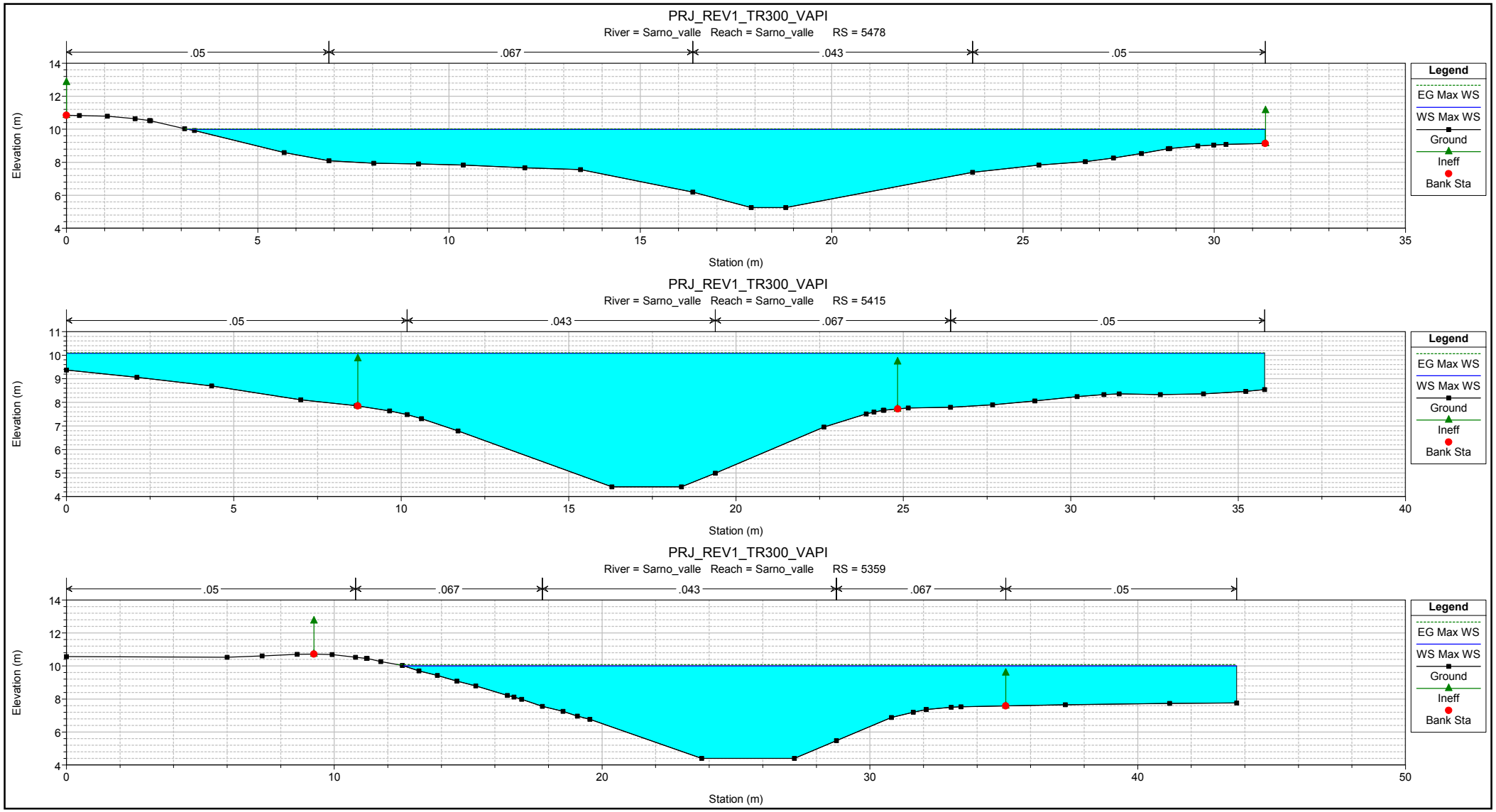

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6325
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6158
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6097
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

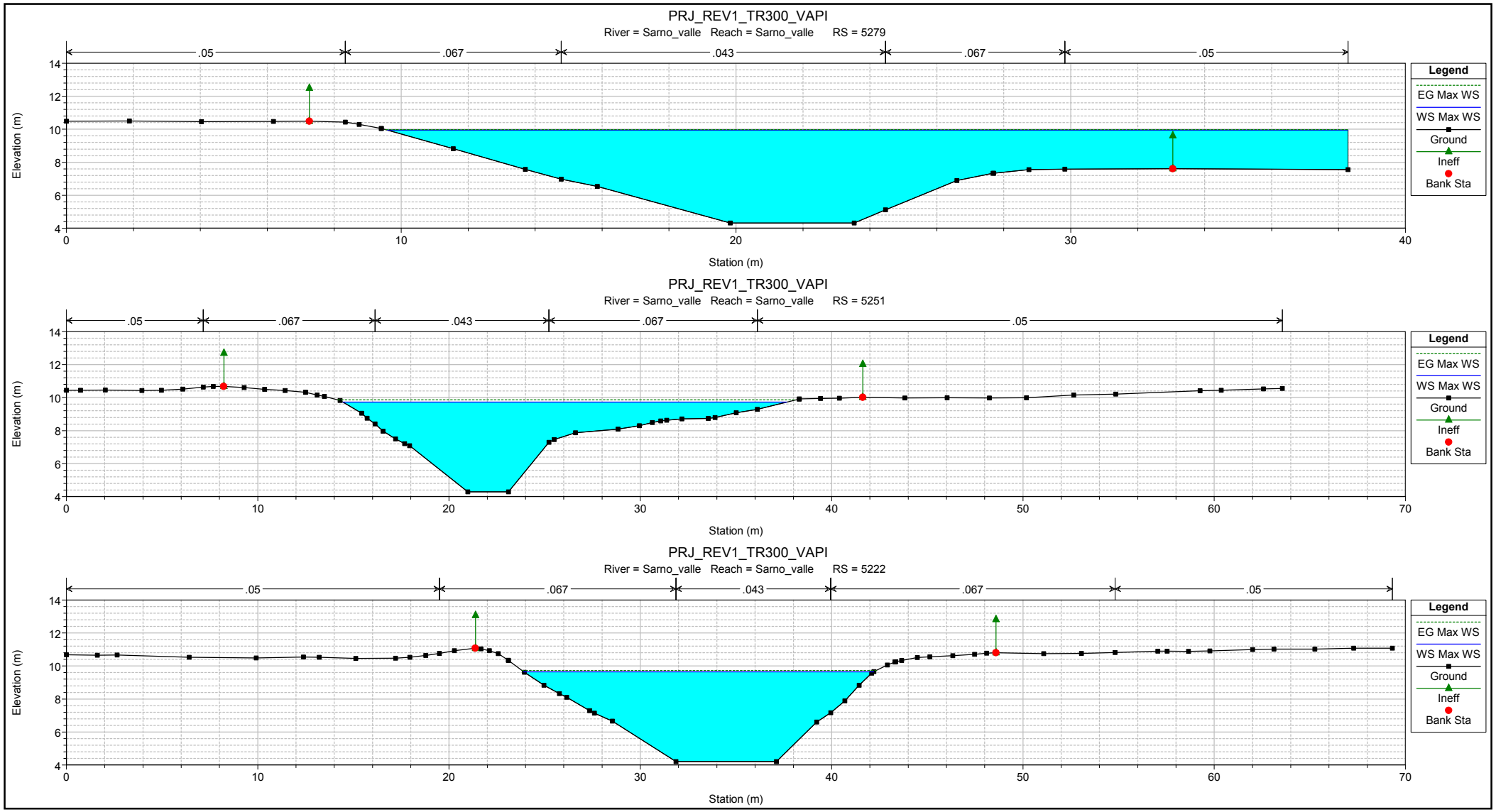

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6081
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6076
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 6049
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

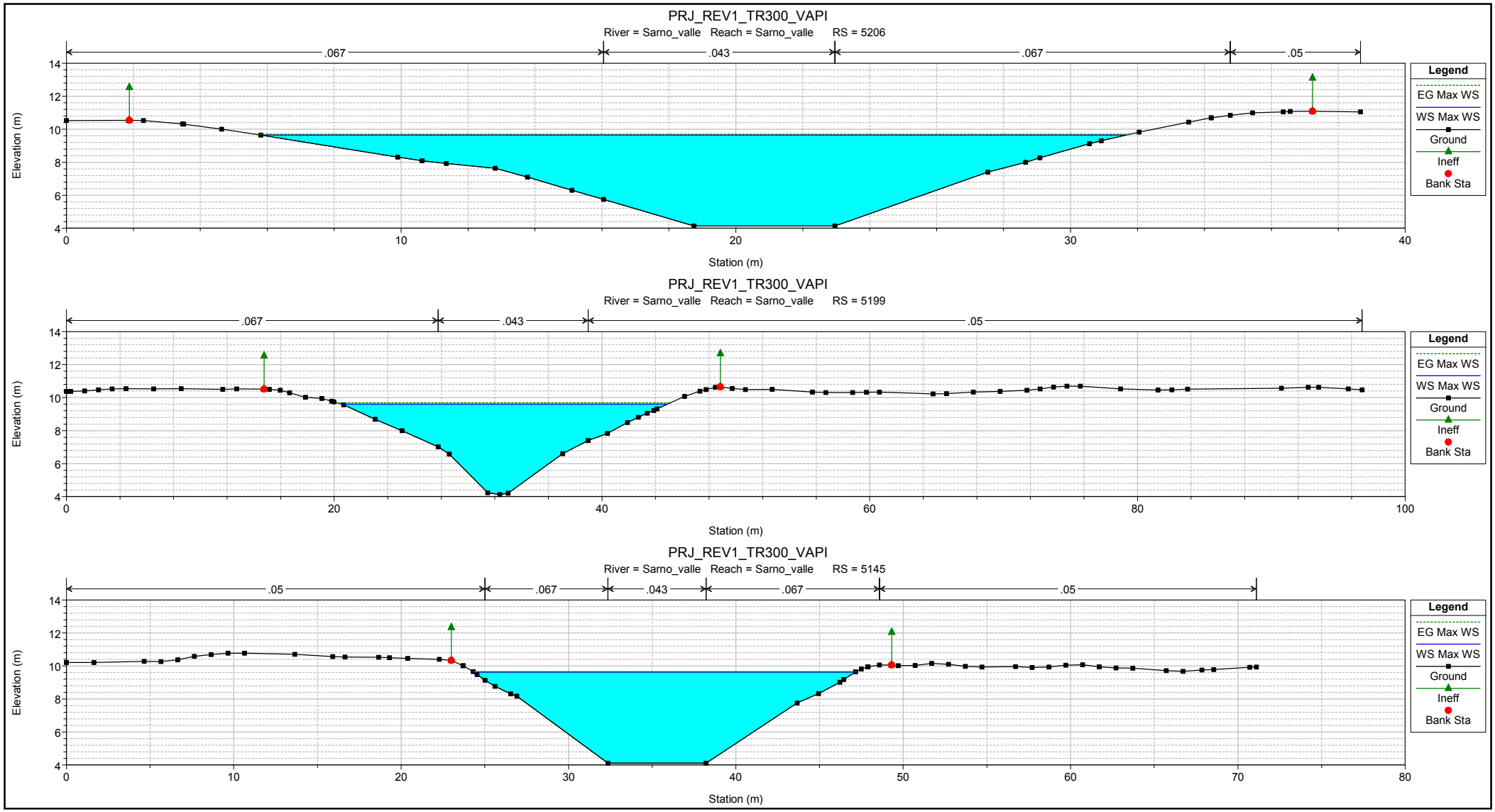

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5980
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5917
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5881
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

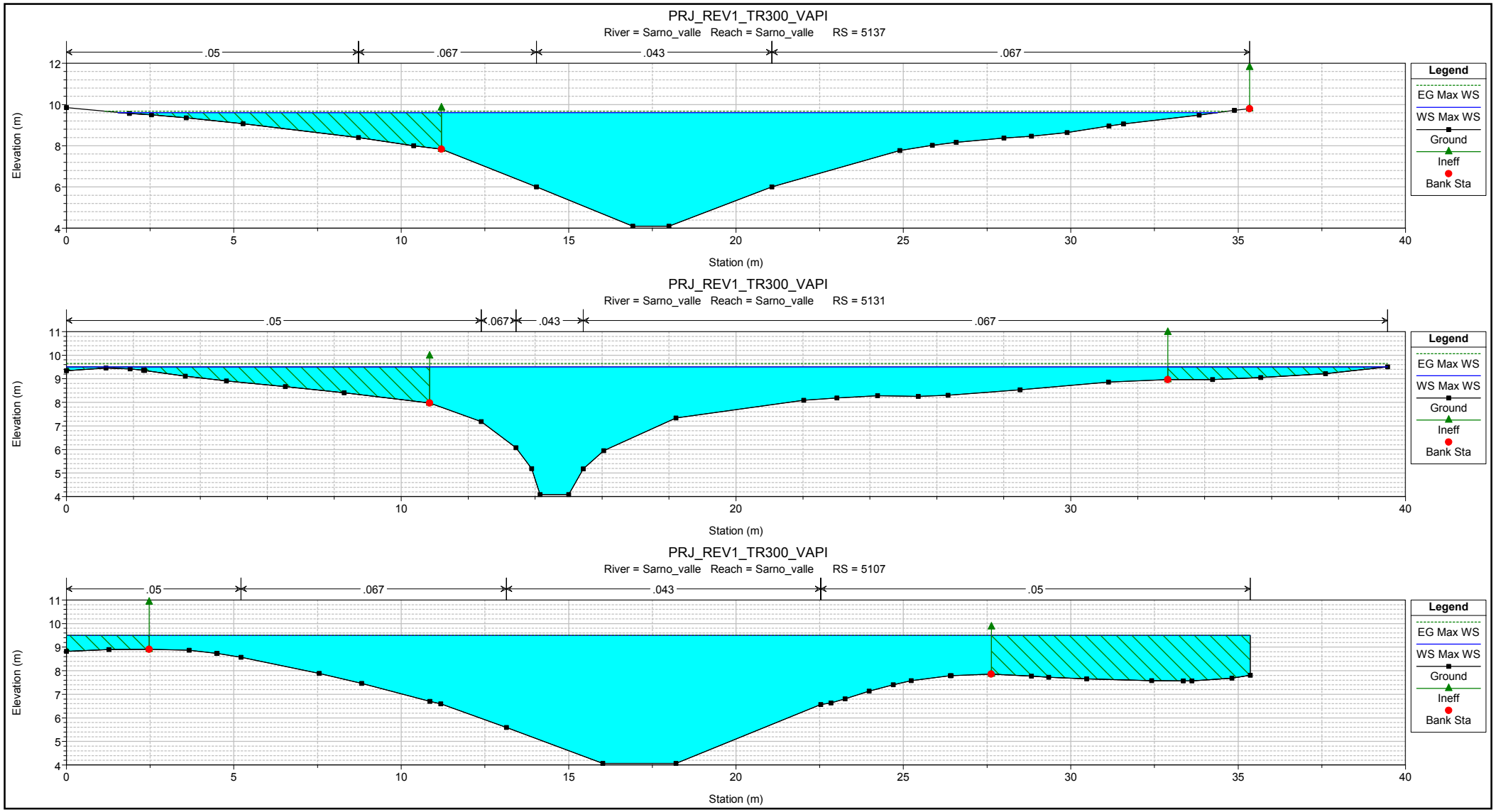

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5861
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5812
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5744
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

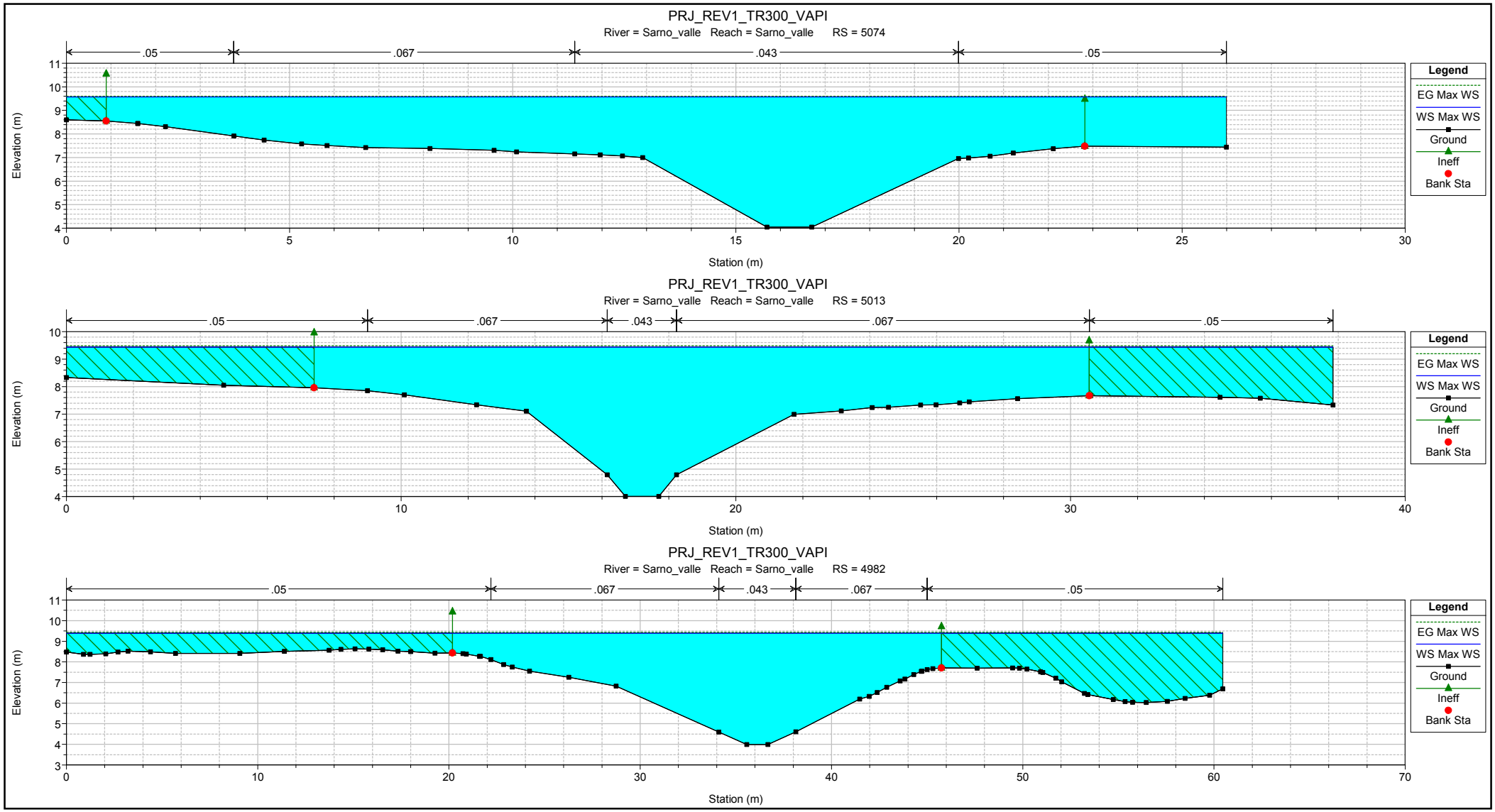

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5662
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5604
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5552
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

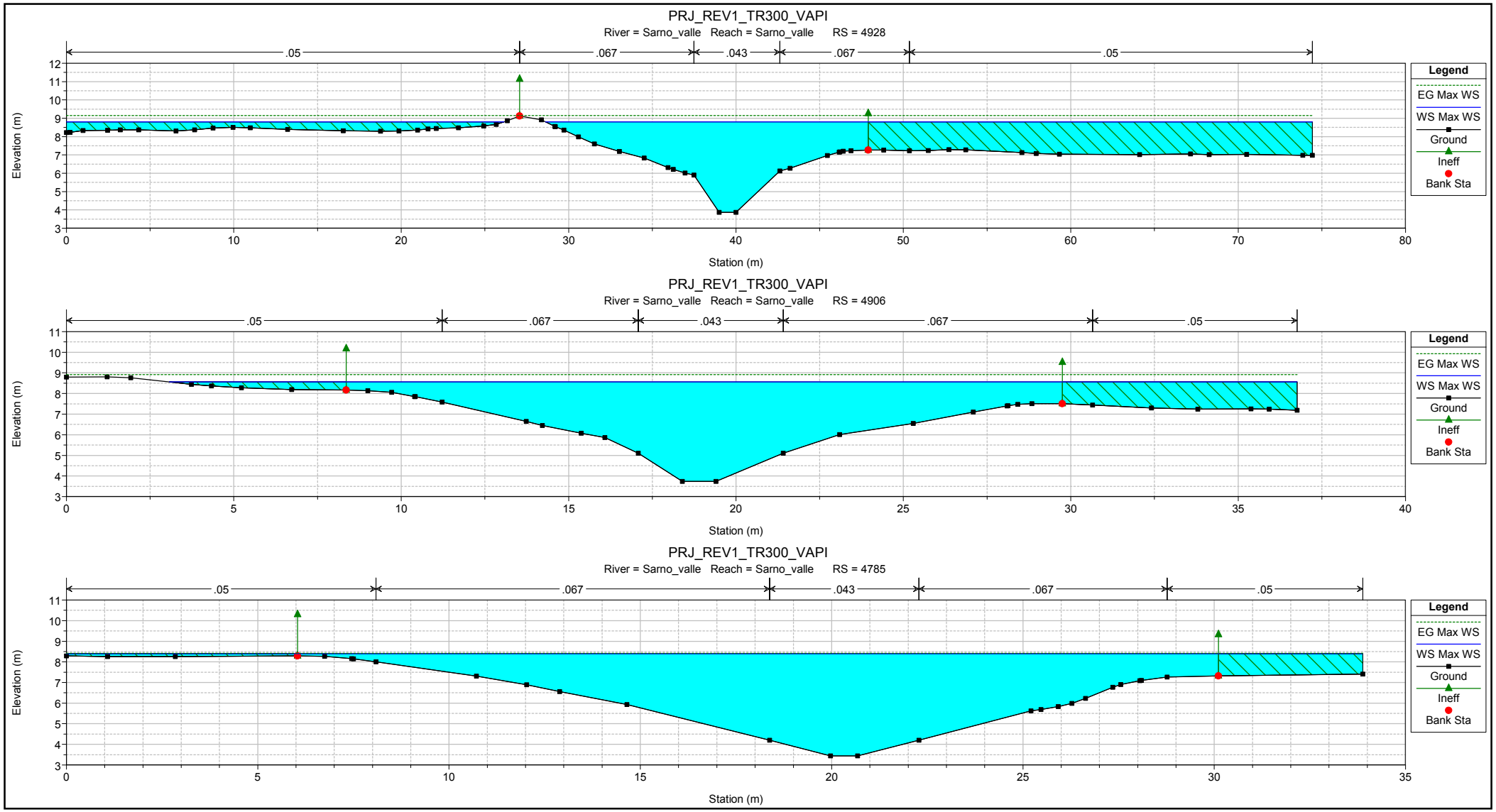

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5478
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5415
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5359
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

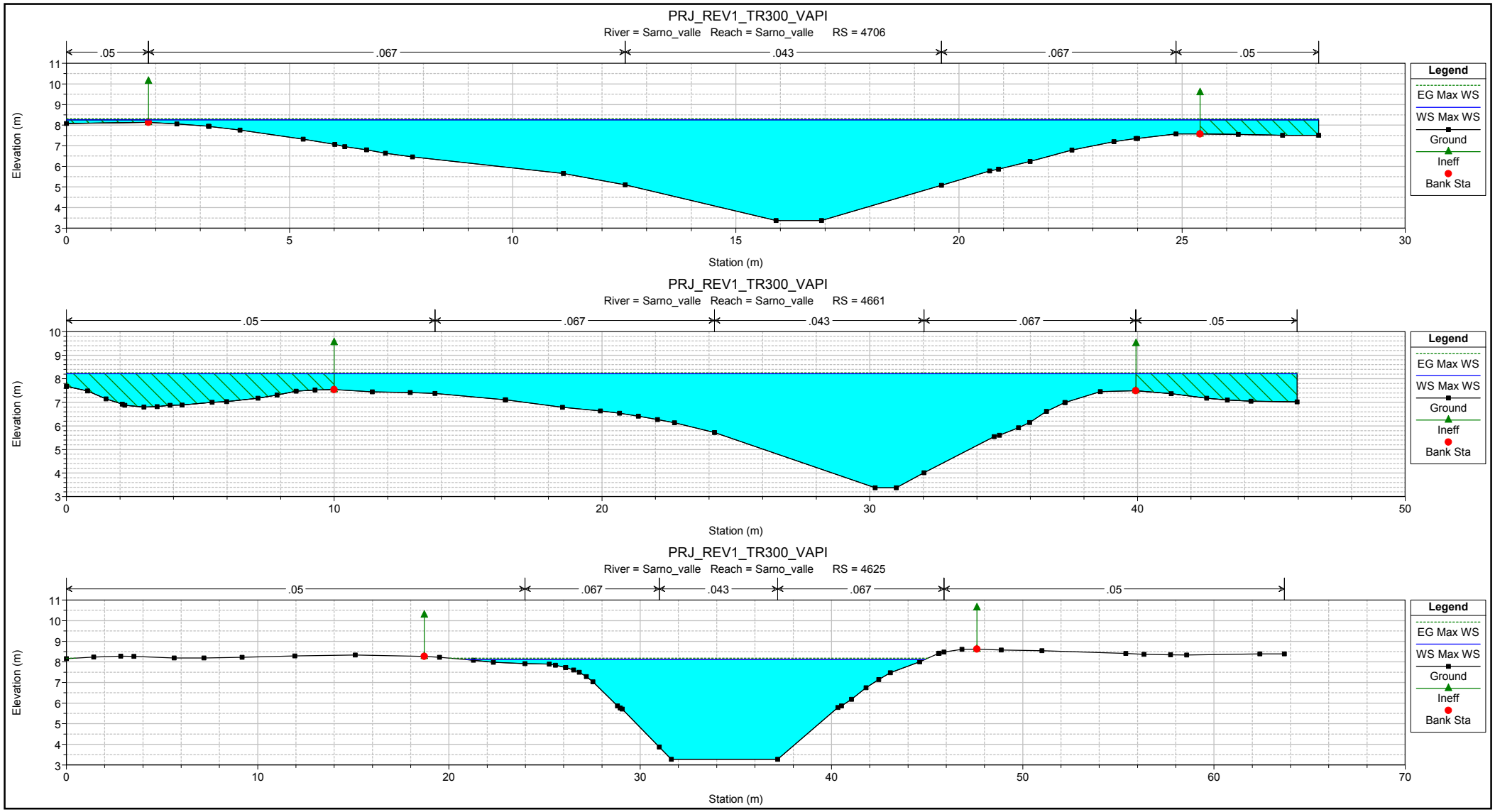

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5279
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5251
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5222
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

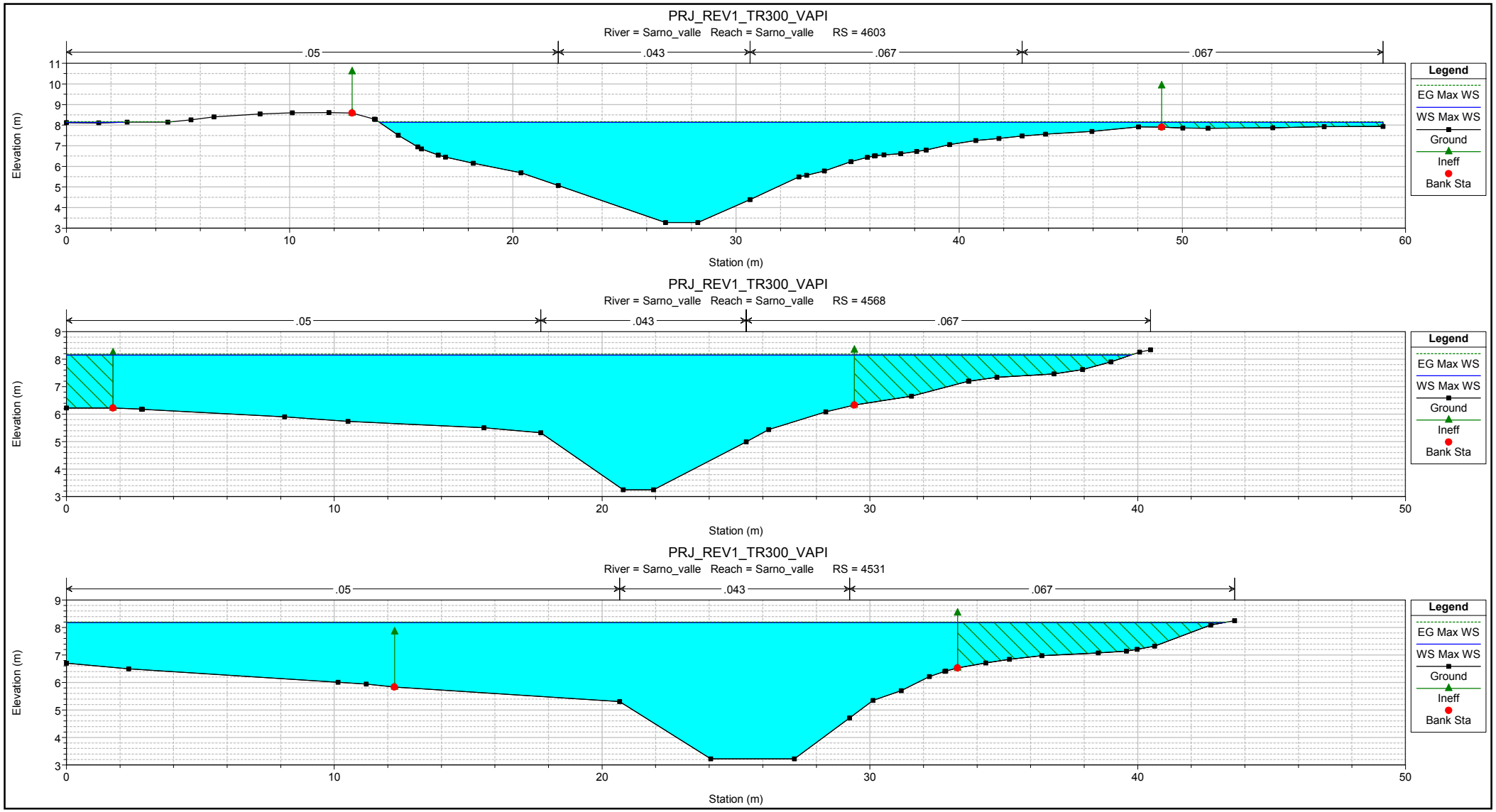

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5206
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5199
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5145
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

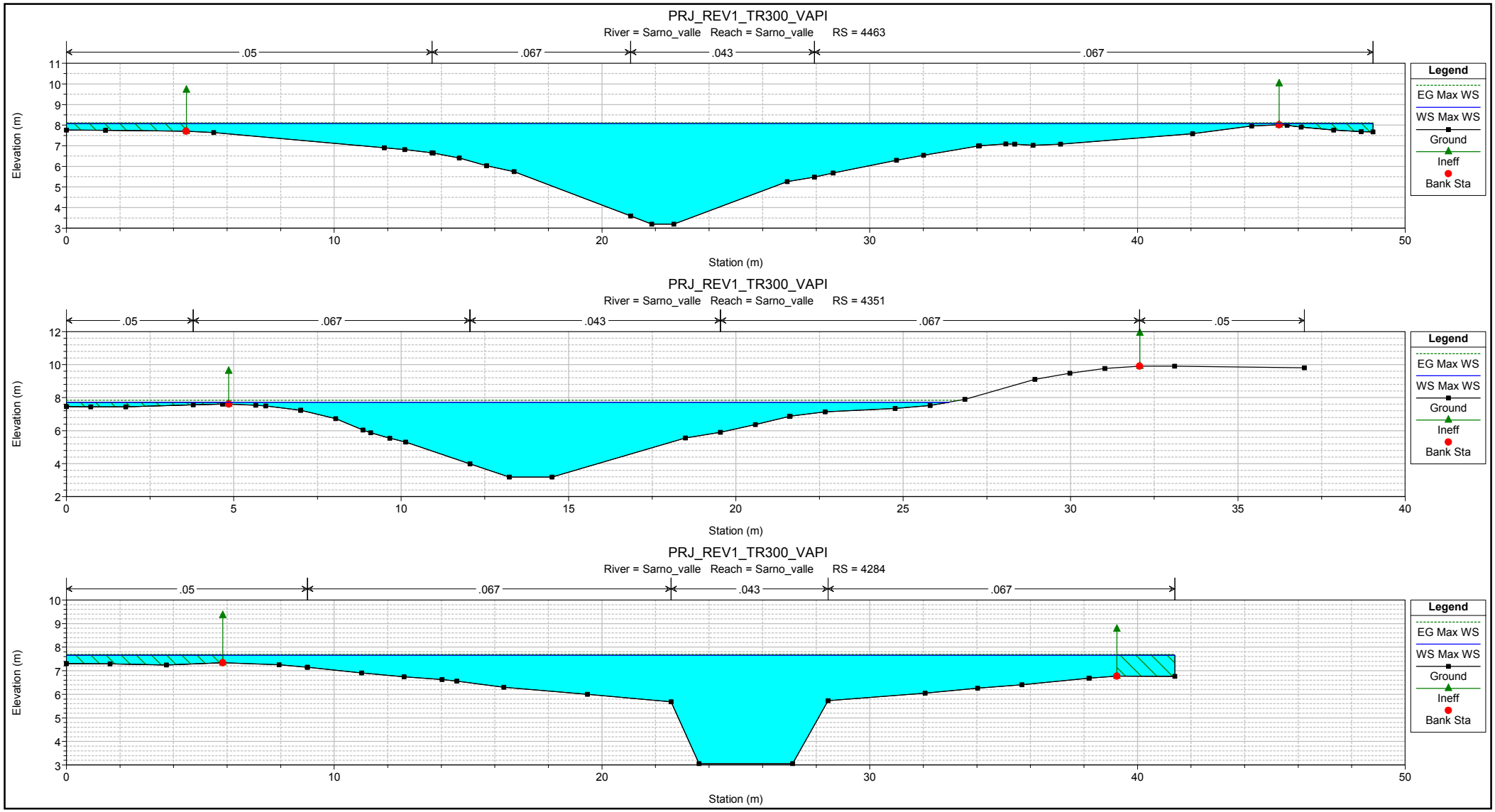

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5137
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5131
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5107
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

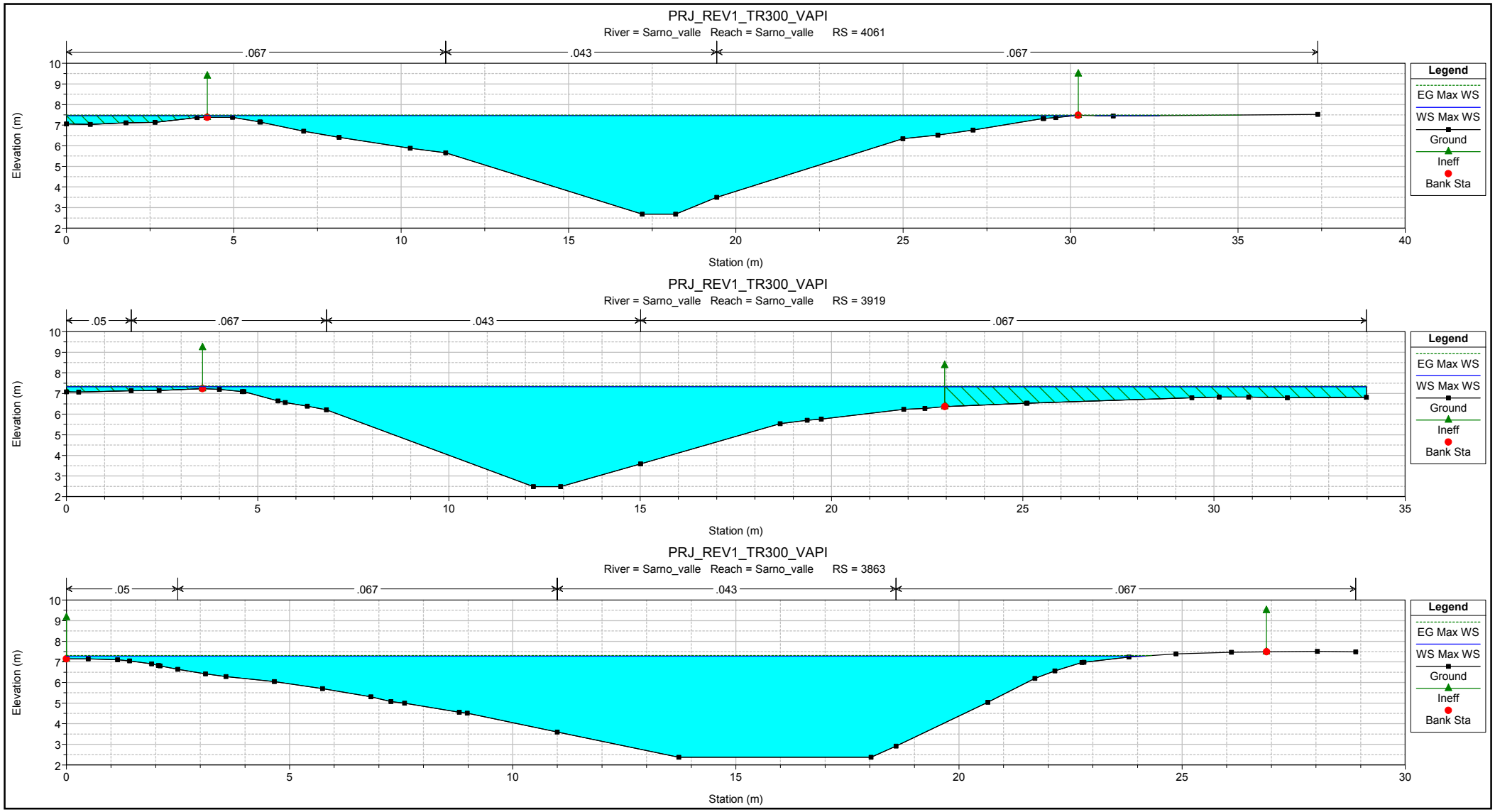

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5074
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 5013
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4982
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

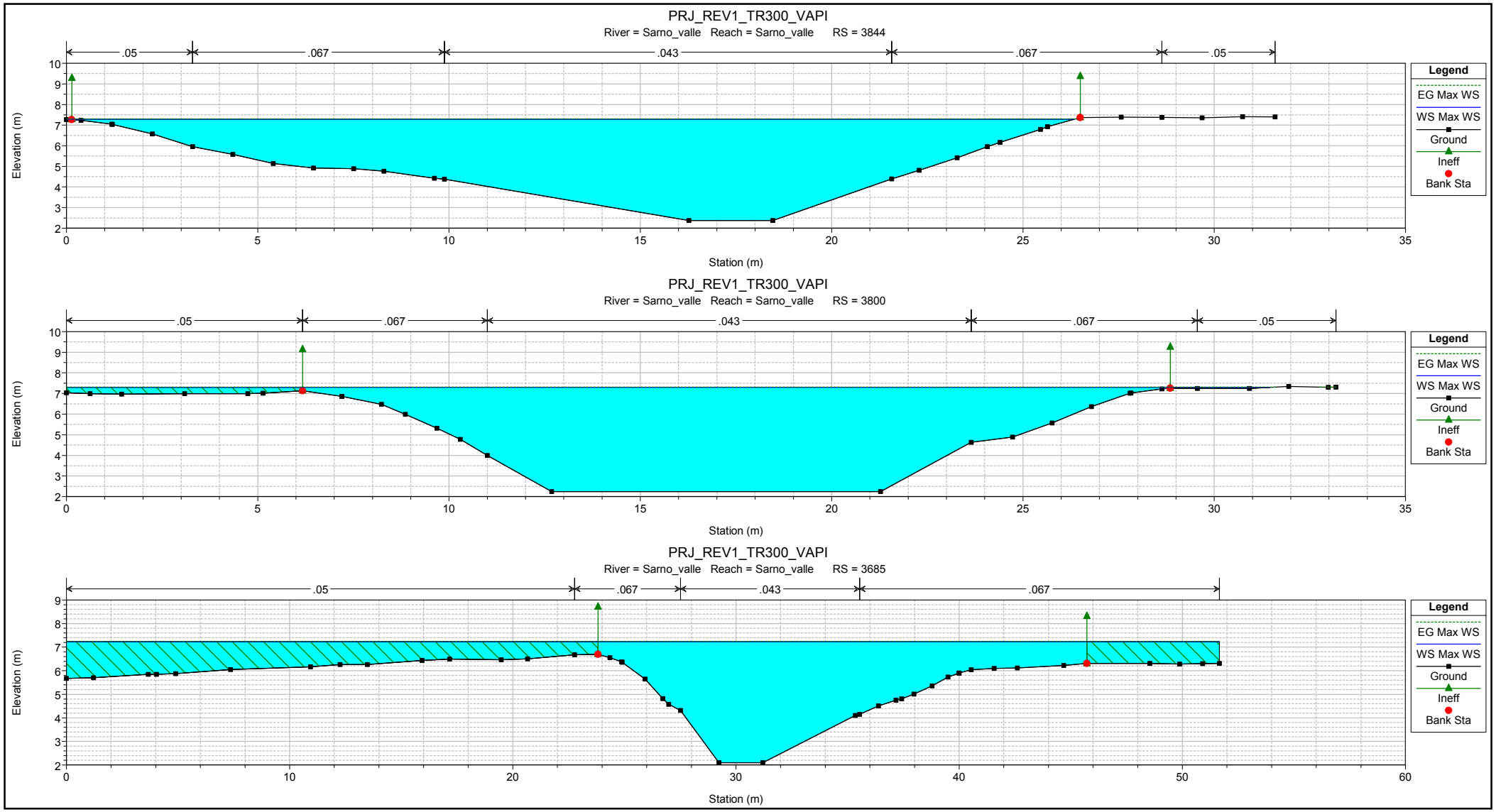

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4928
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4906
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4785
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

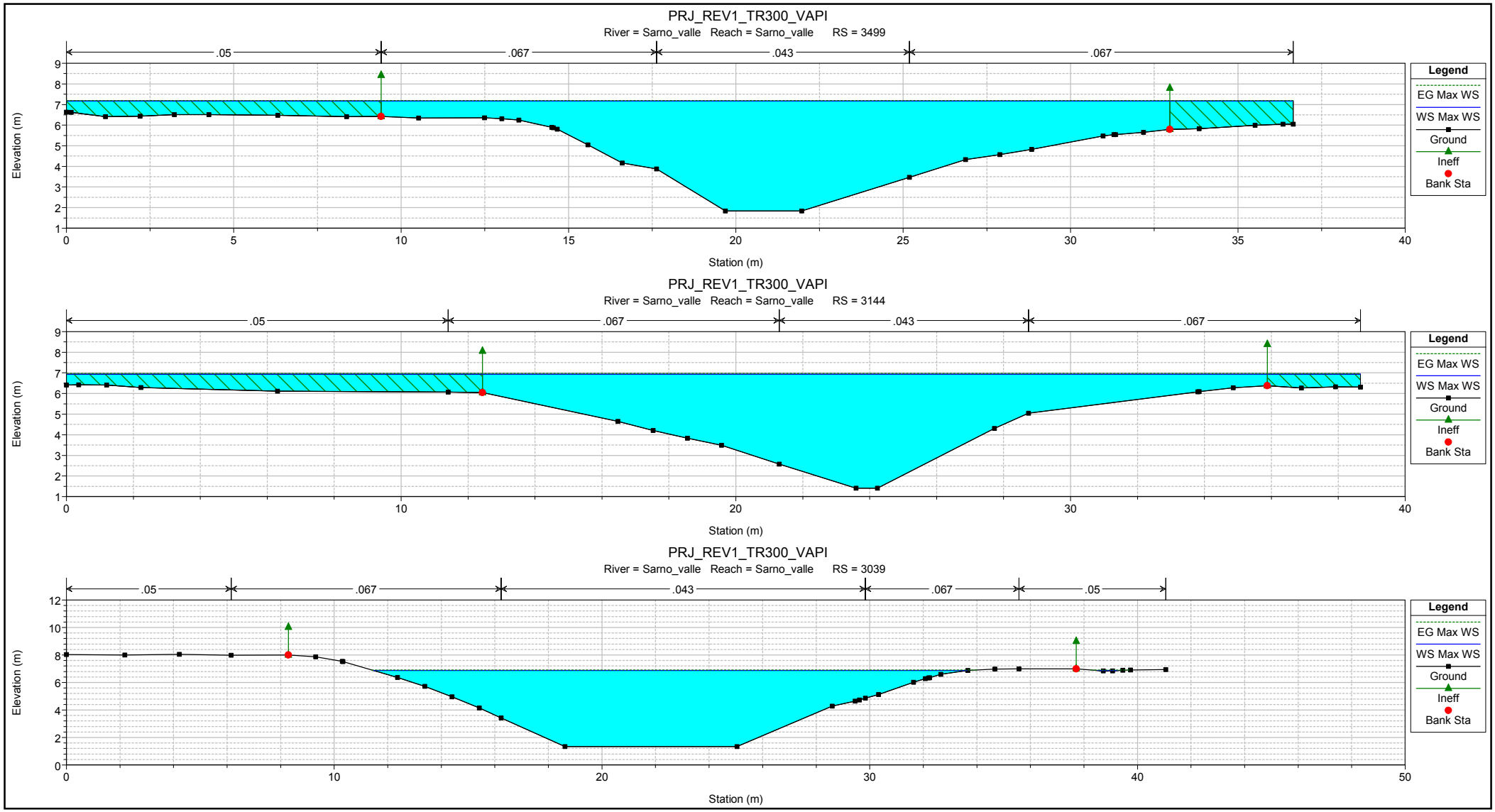

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4706
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4661
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4625
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

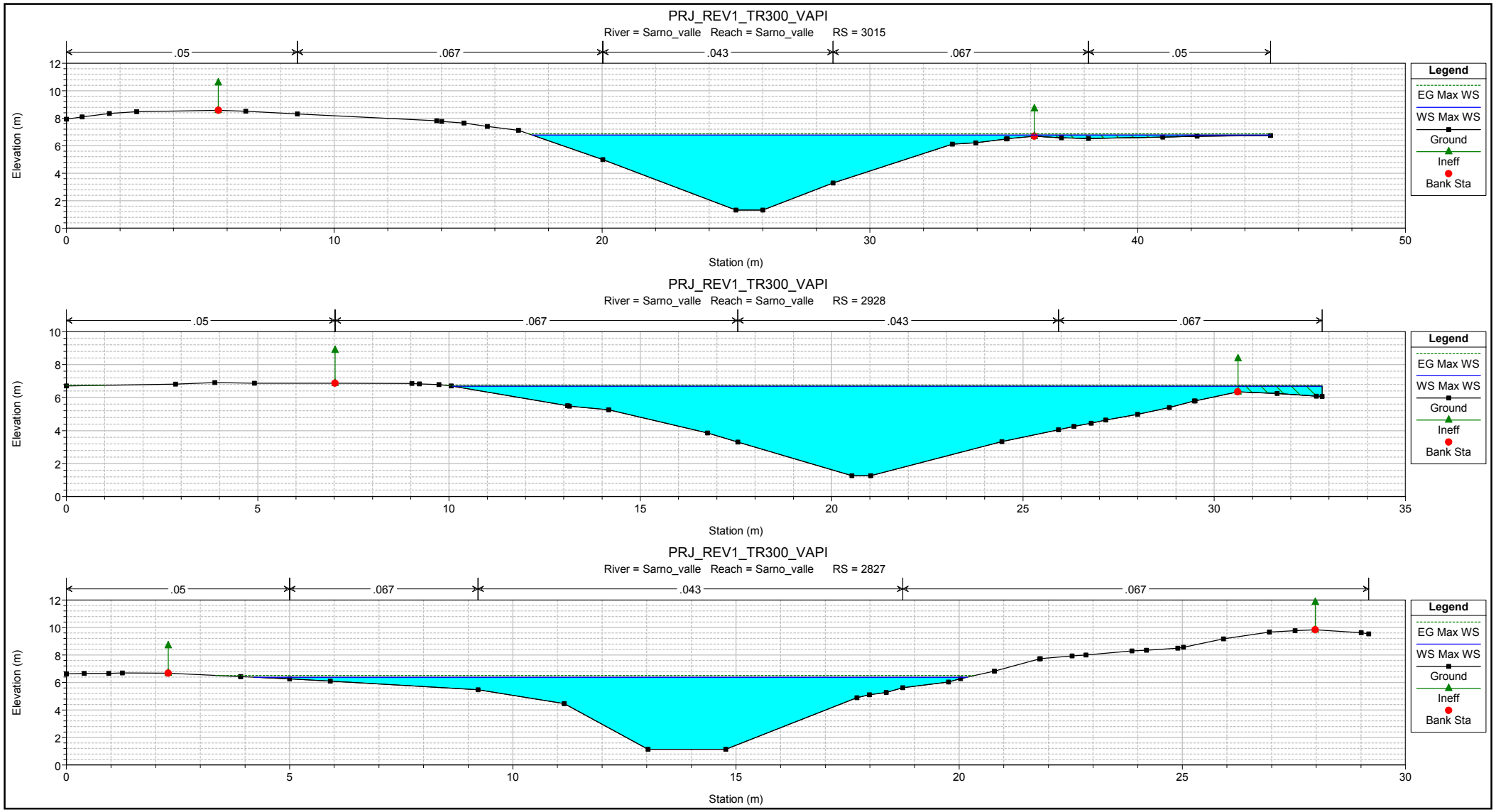

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4603
.05
.043
.067
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4568
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4531
.05
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

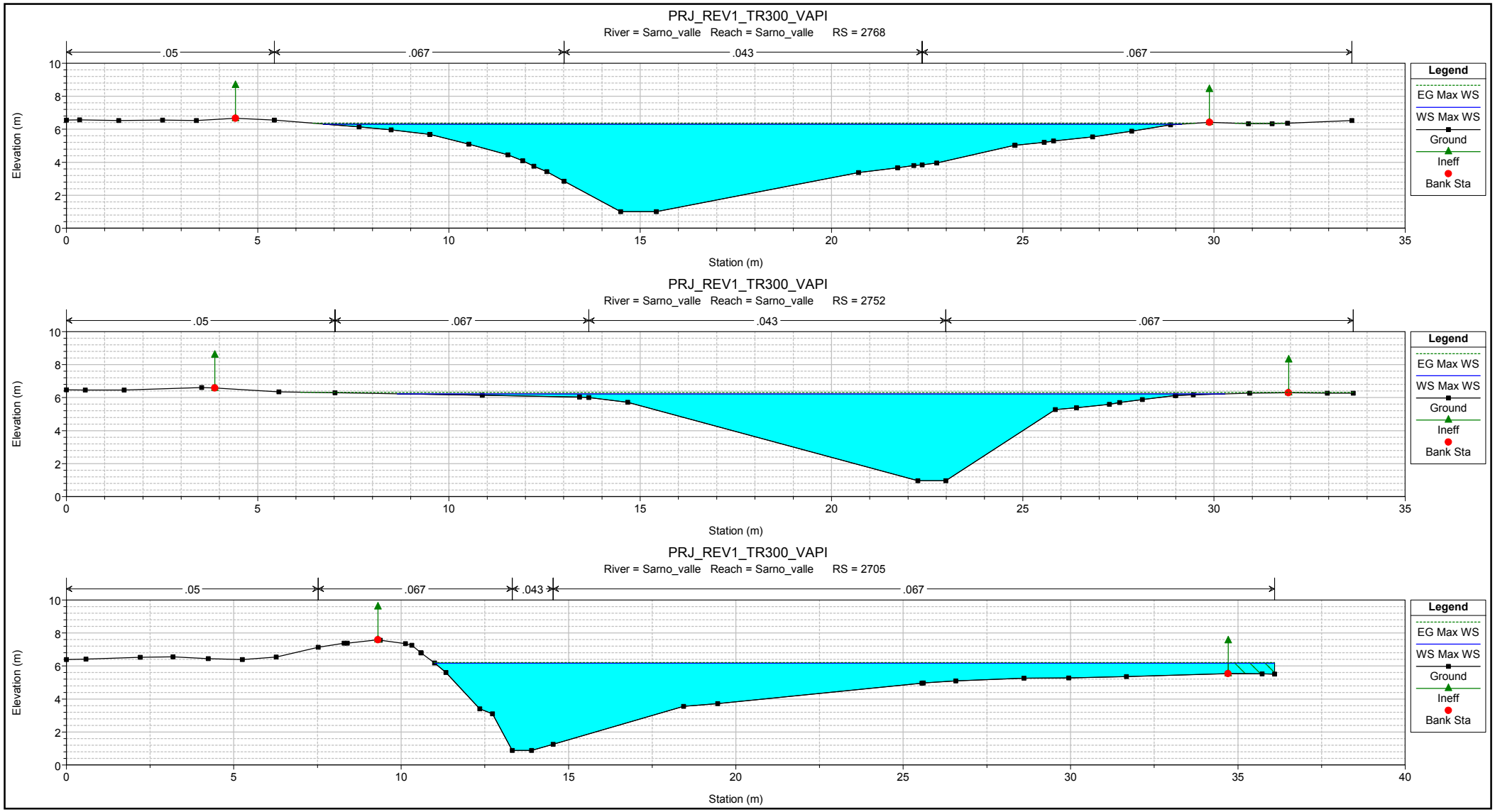

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4463
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4351
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4284
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

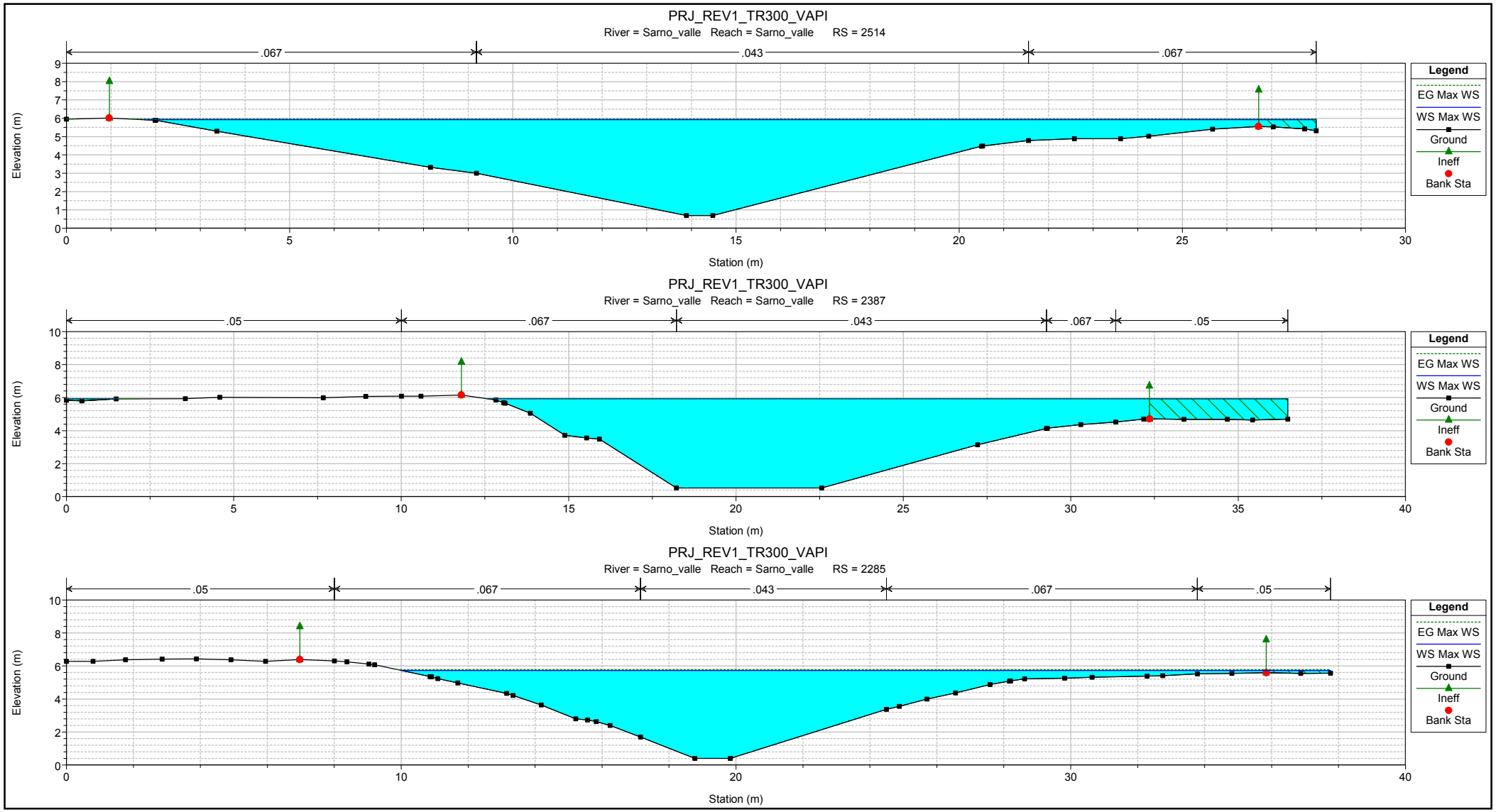

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 4061
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3919
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3863
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

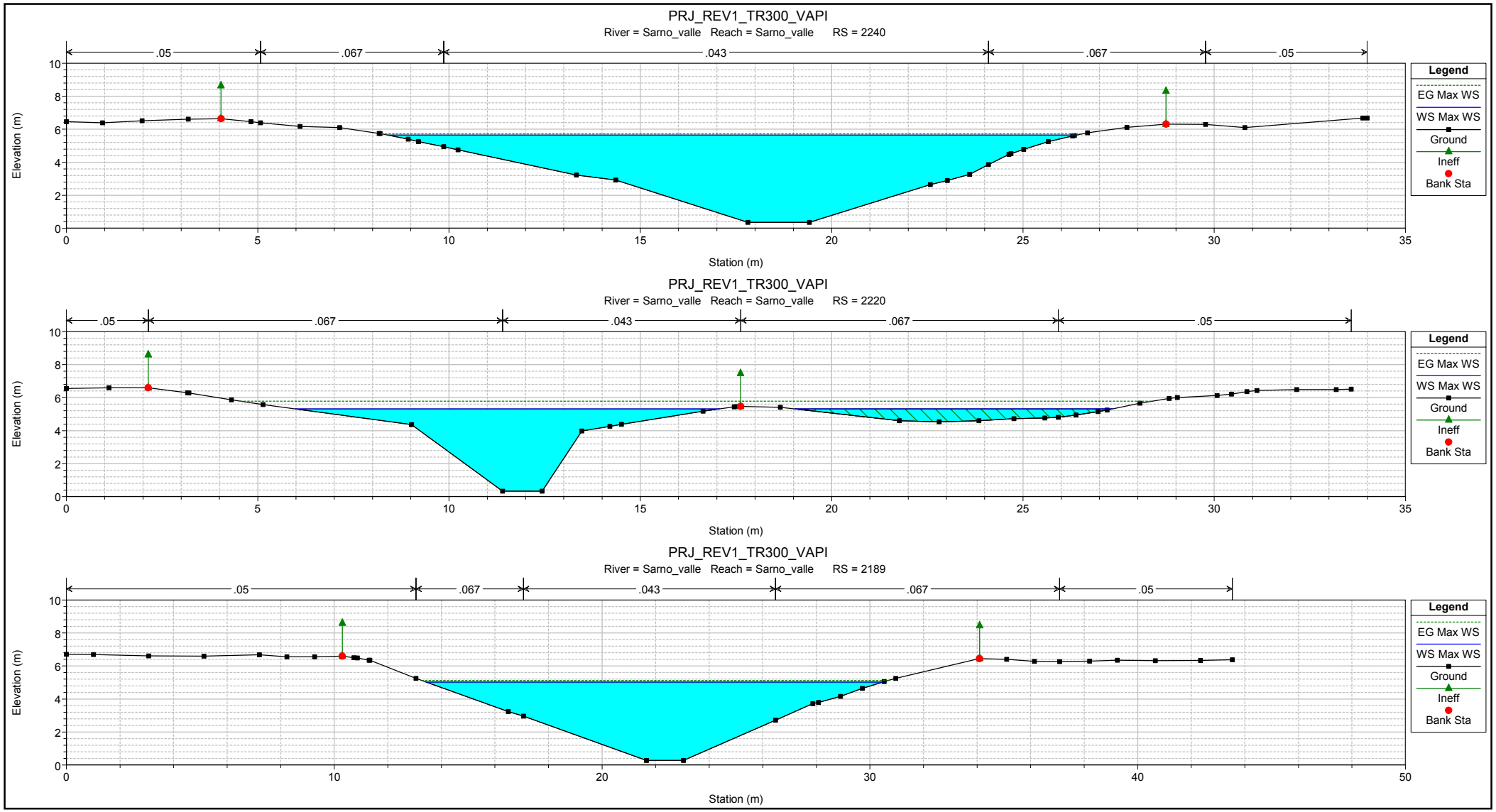

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3844
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3800
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3685
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

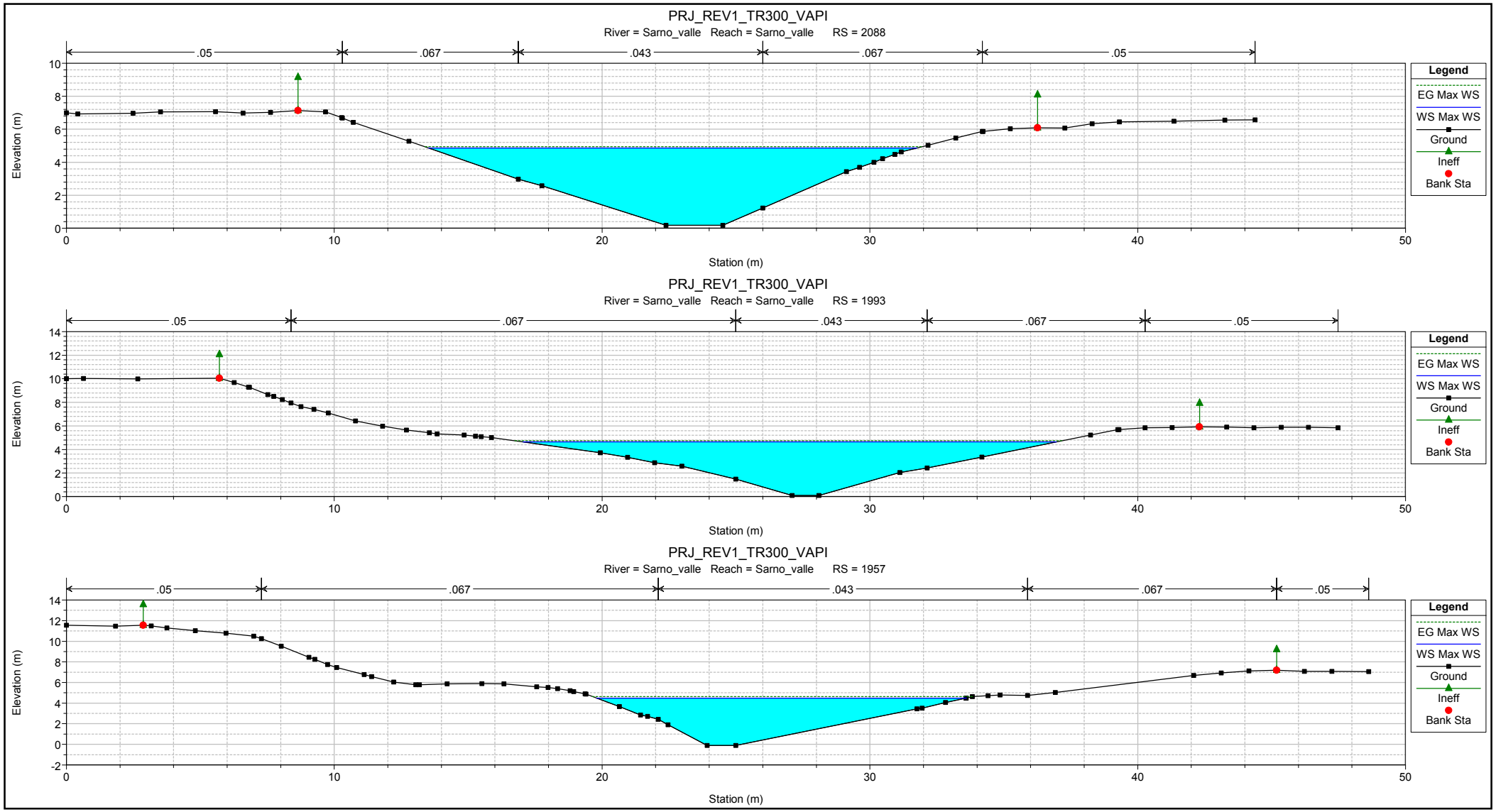

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3499
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3144
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3039
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

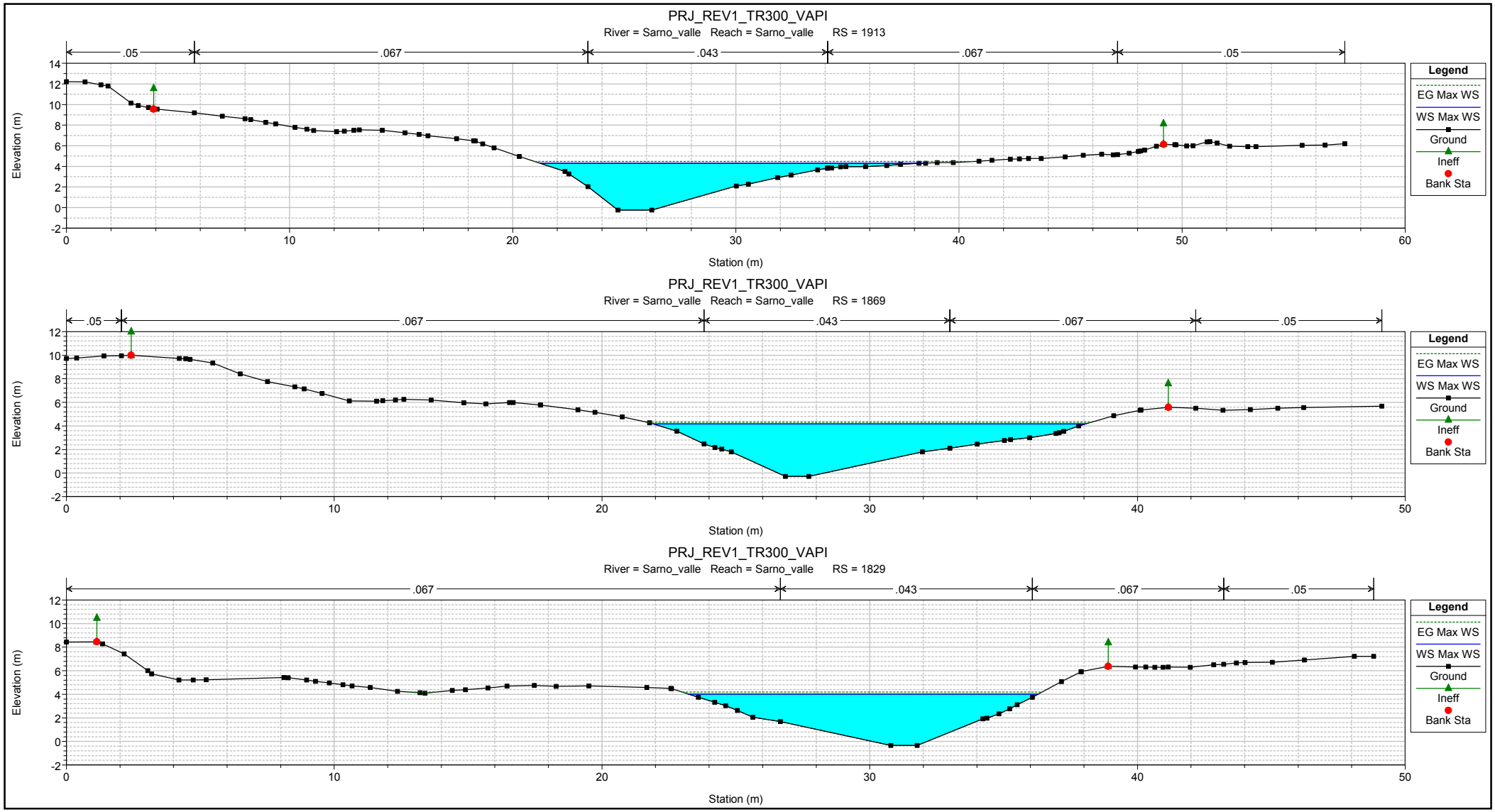

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 3015
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2928
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2827
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

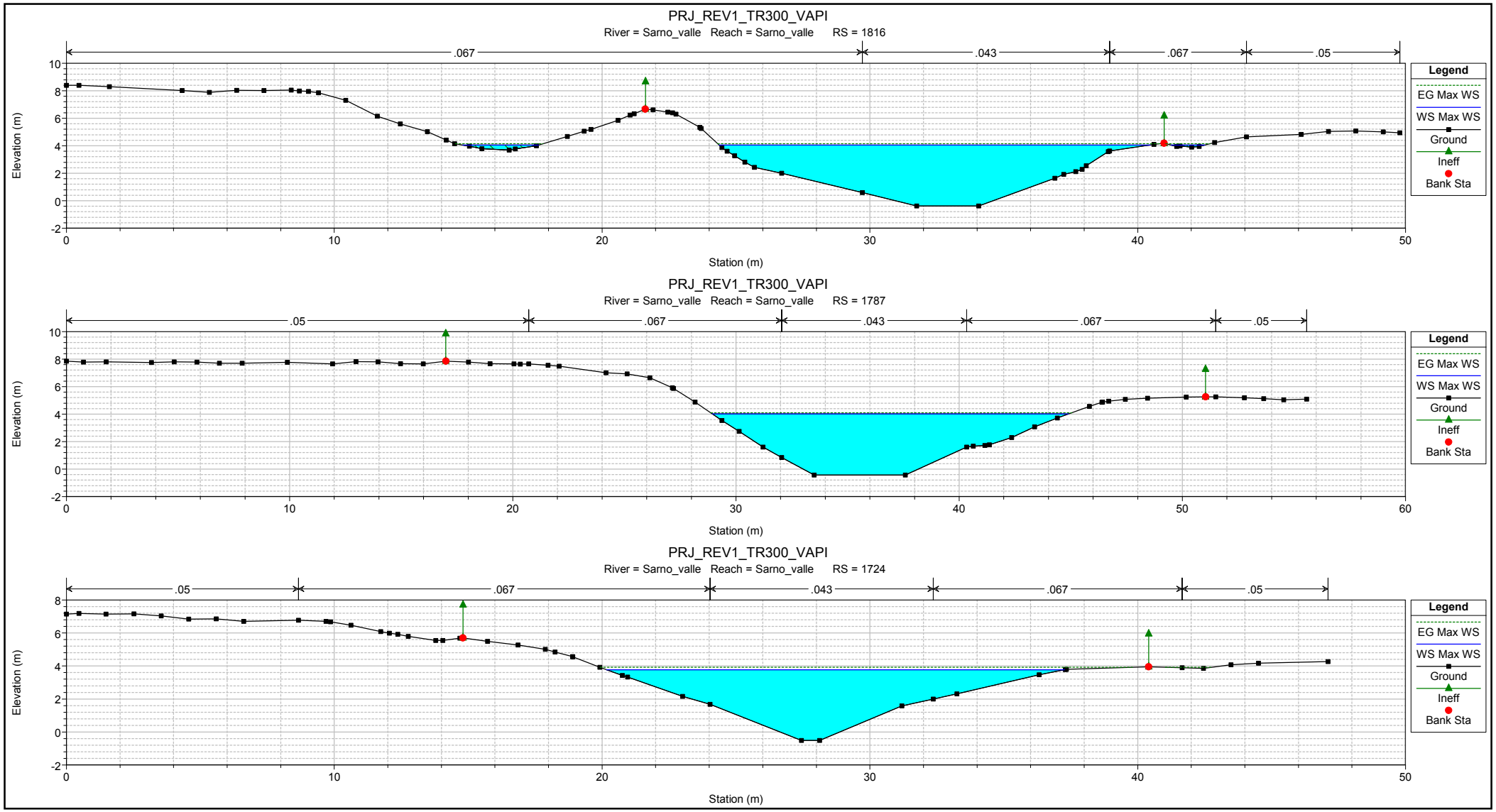

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2768
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2752
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2705
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

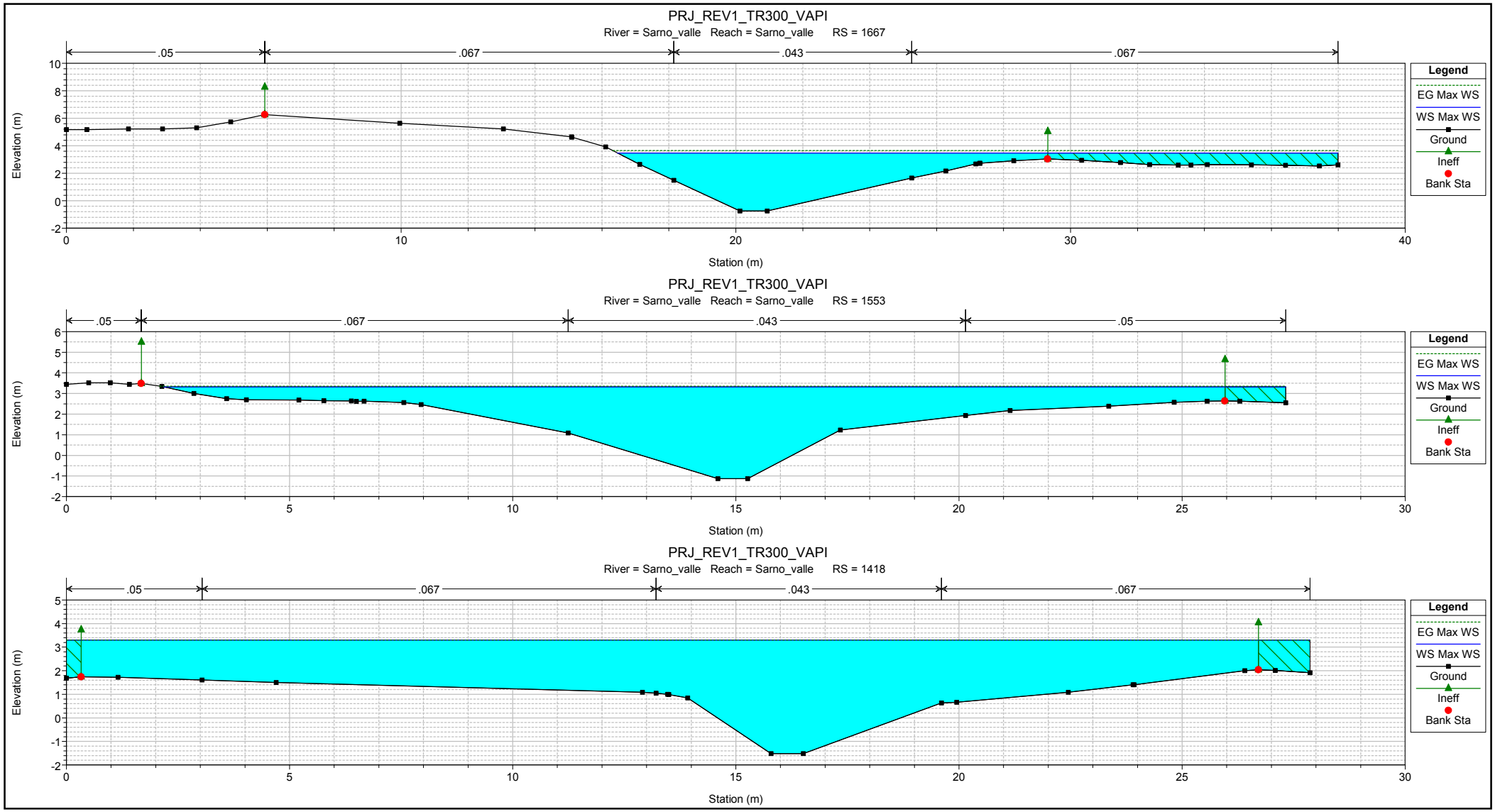

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2514
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2387
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2285
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

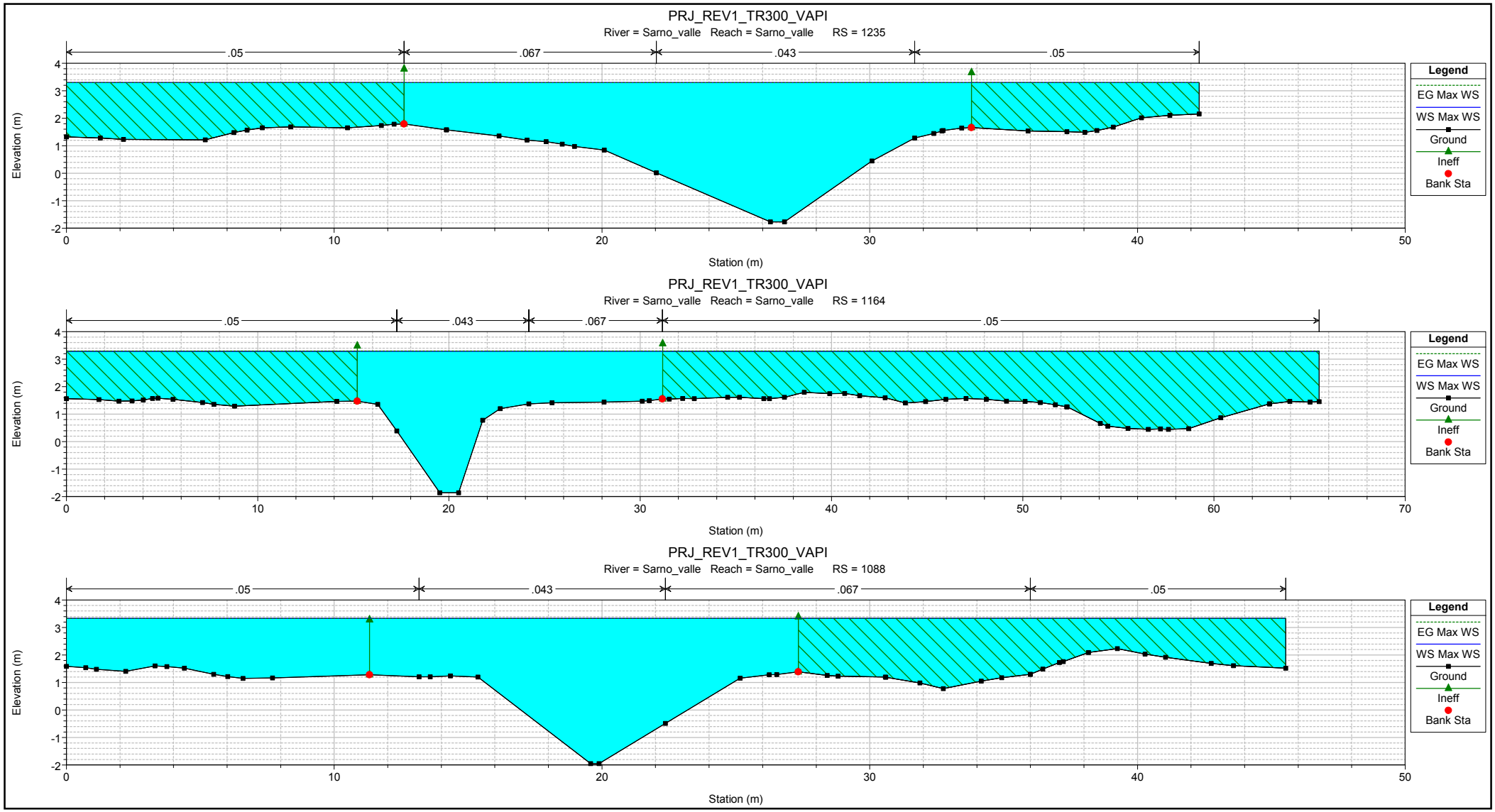

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2240
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2220
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2189
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

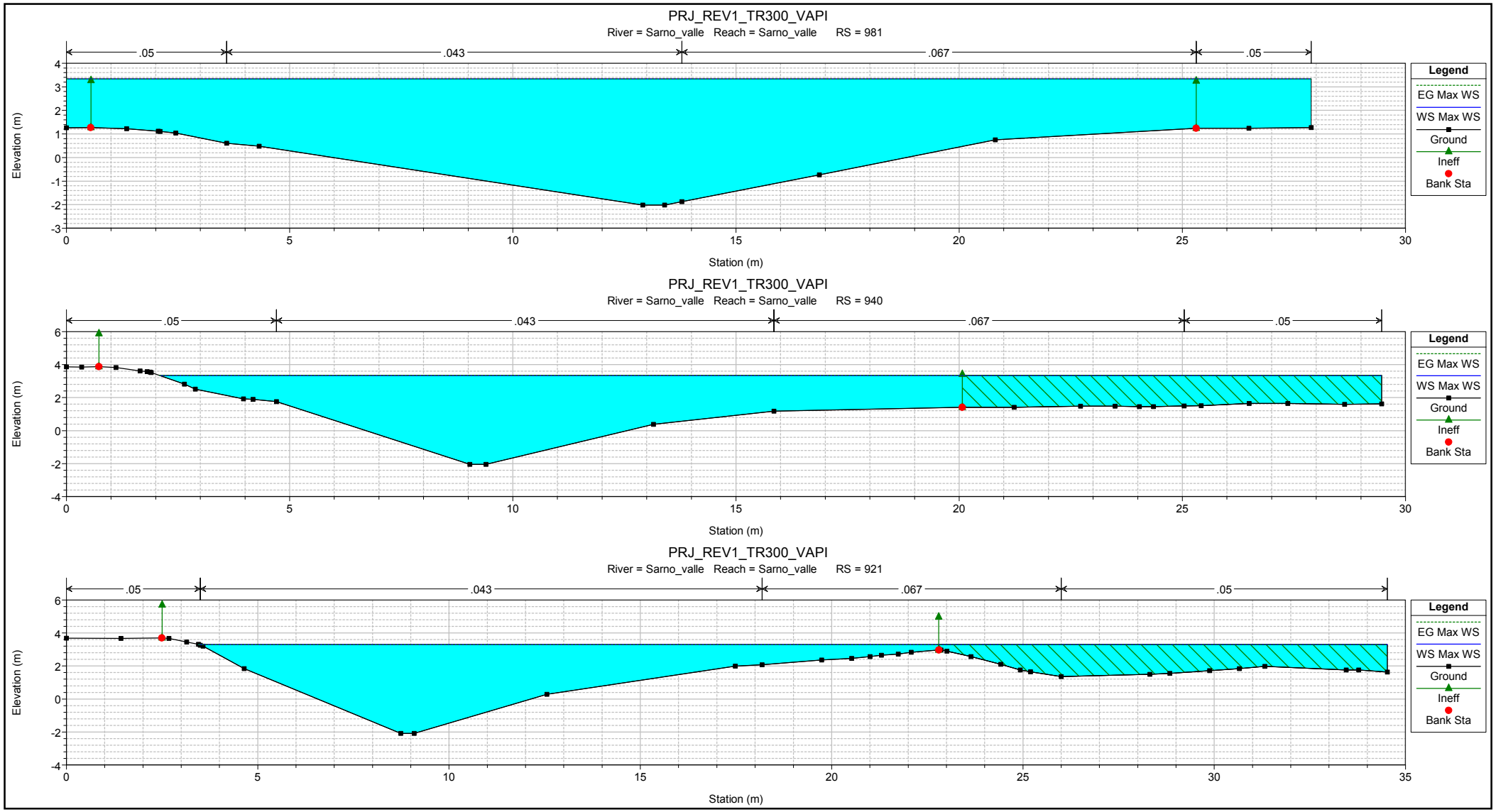

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 2088
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1993
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1957
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

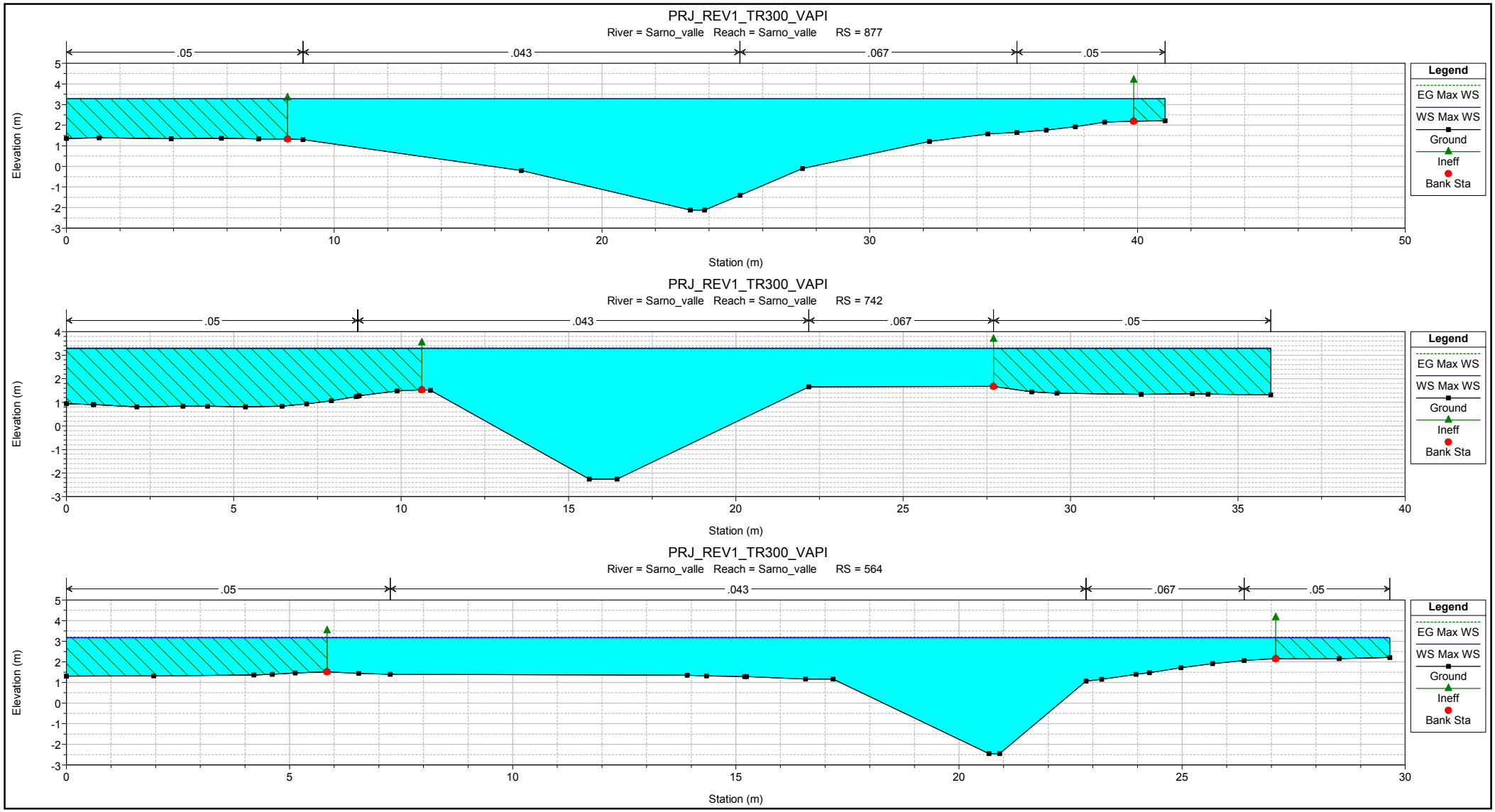

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1913
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1869
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1829
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

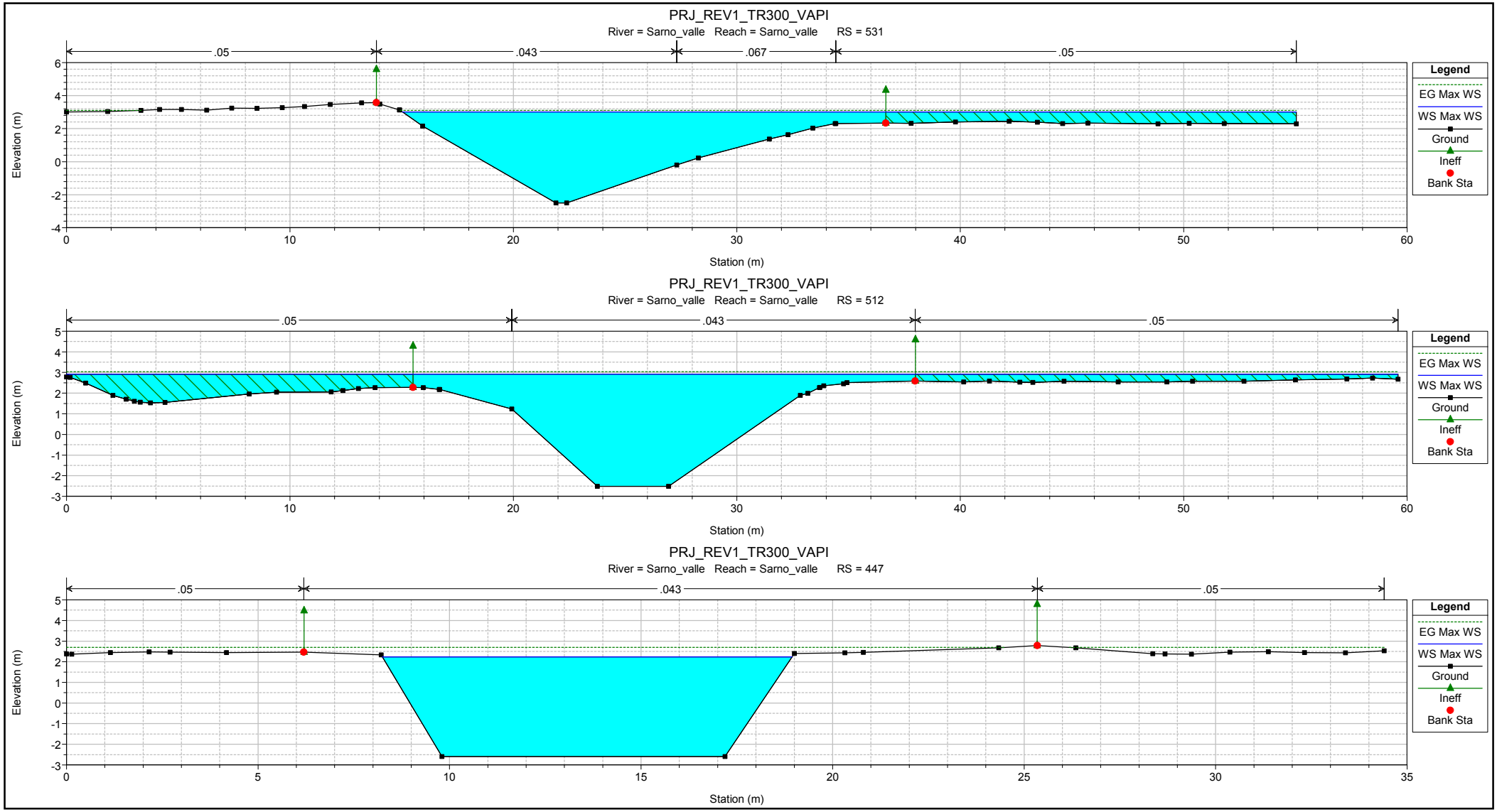

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1816
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1787
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1724
.05
.067
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

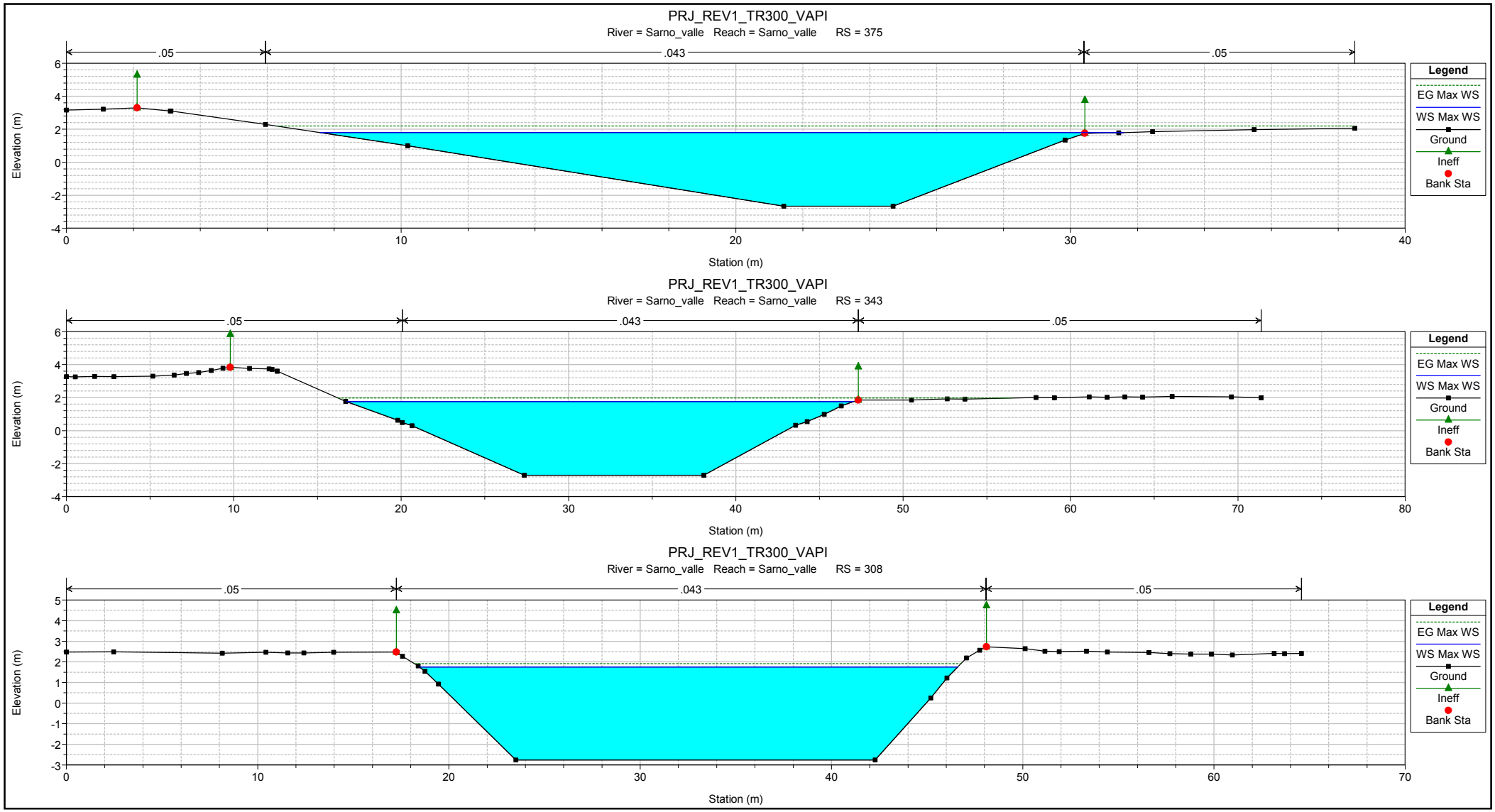

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1667
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1553
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1418
.05
.067
.043
.067
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

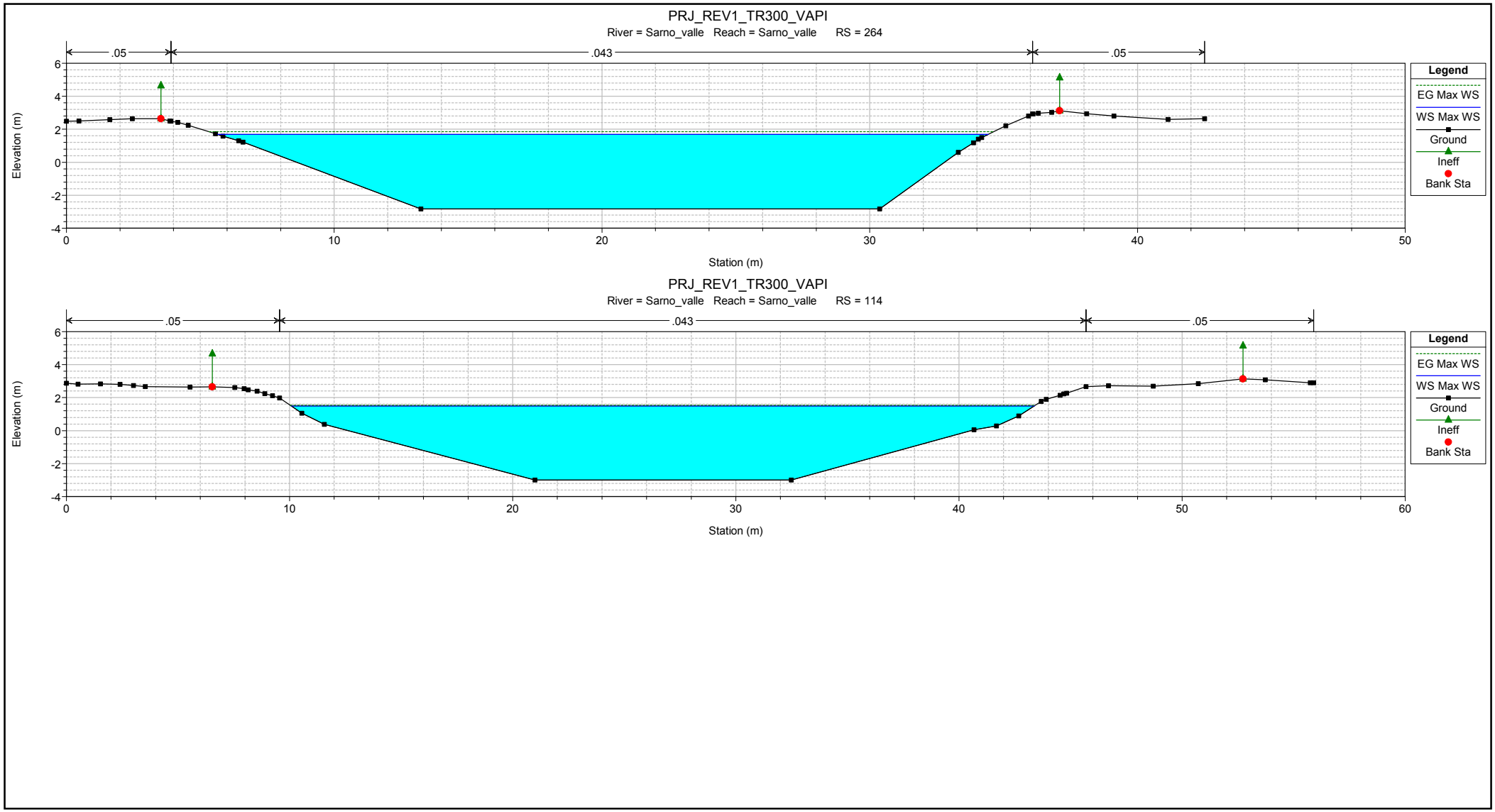

PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1235
.05
.067
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1164
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 1088
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 981
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 940
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 921
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 877
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 742
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 564
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 531
.05
.043
.067
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 512
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 447
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 375
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 343
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 308
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta


PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 264
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta
PRJ_REV1_TR300_VAPI
River = Sarno_valle Reach = Sarno_valle RS = 114
.05
.043
.05
Elevation (m)
Station (m)
Legend
EG Max WS
WS Max WS
Ground
Ineff
Bank Sta

3 ALLEGATO III - RISULTATI SIMULAZIONI IDRODINAMICHE BACINI MINORI

3.1 CONFIGURAZIONE DI STATO DI FATTO

3.1.1. Corso d’acqua B.09
(Configurazione di stato di fatto - Evento TR 200 anni)

HEC-RAS Plan: SDF River: B_09 Reach: B_09

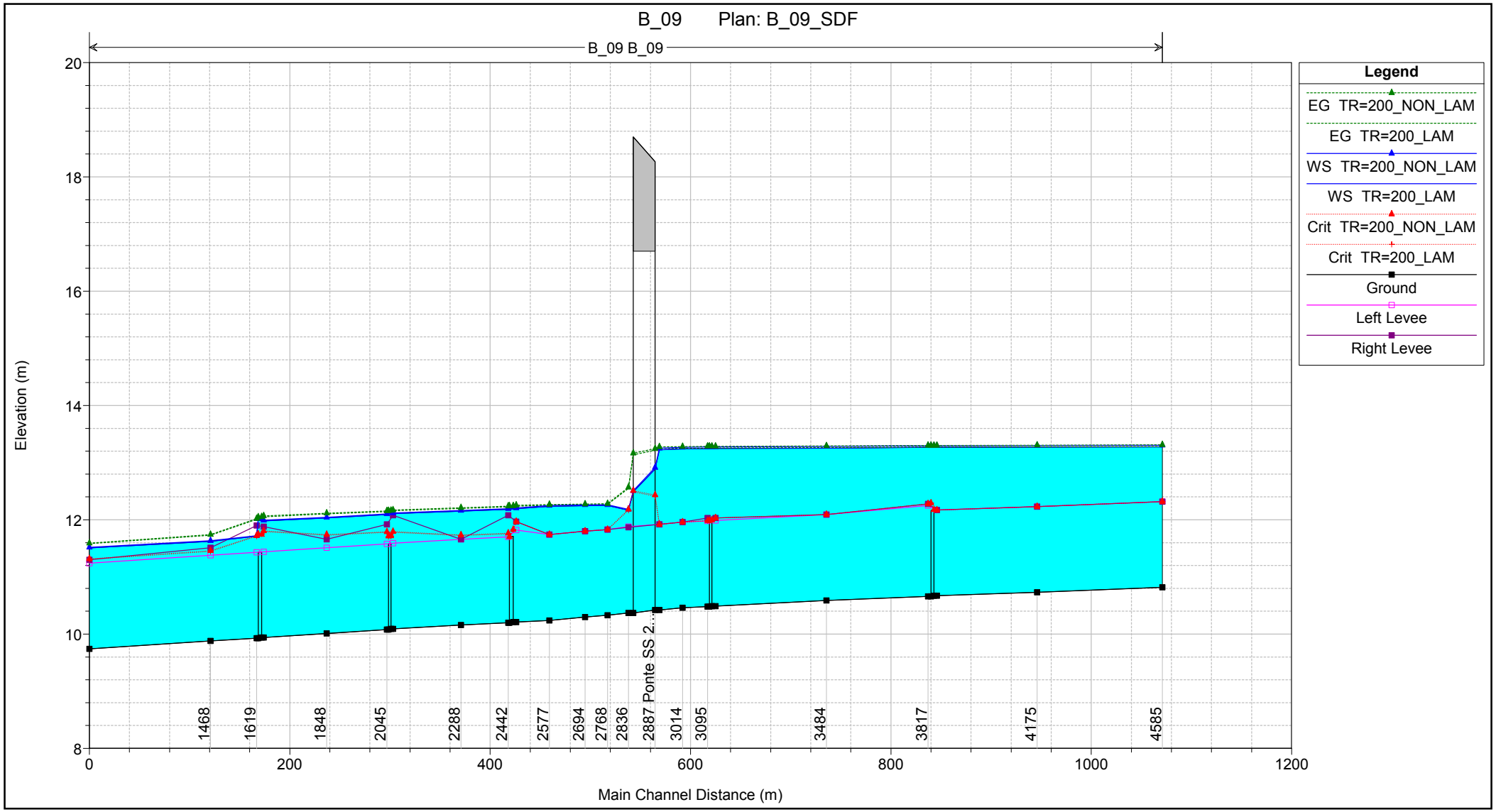
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_09	4585	TR=200_LAM	91.00	10.82	2.46	13.28	12.32	0.96	0.12	13.28	0.59	0.28	1.84	1	1.57
B_09	4585	TR=200_NON_LAM	93.00	10.82	2.49	13.31	12.32	0.99	0.12	13.31	0.59	0.28	1.86	1	1.60
B_09	4175	TR=200_LAM	91.00	10.73	2.54	13.27	12.23	1.04	0.09	13.28	0.46	0.22	1.91	1	1.59
B_09	4175	TR=200_NON_LAM	93.00	10.73	2.57	13.30	12.23	1.07	0.09	13.30	0.46	0.22	1.93	1	1.62
B_09	3847	TR=200_LAM	91.00	10.67	2.60	13.27	12.17	1.10	0.09	13.27	0.48	0.22	1.95	1	1.58
B_09	3847	TR=200_NON_LAM	93.00	10.67	2.63	13.30	12.17	1.13	0.09	13.30	0.48	0.22	1.97	1	1.61
B_09	3832		Bridge												
B_09	3817	TR=200_LAM	91.00	10.66	2.61	13.27	12.28	0.99	0.10	13.27	0.50	0.23	1.96	1	1.55
B_09	3817	TR=200_NON_LAM	93.00	10.66	2.64	13.30	12.28	1.02	0.10	13.30	0.50	0.23	1.98	1	1.58
B_09	3484	TR=200_LAM	91.00	10.59	2.66	13.25	12.09	1.16	0.15	13.26	0.75	0.40	2.00	2	1.91
B_09	3484	TR=200_NON_LAM	93.00	10.59	2.69	13.28	12.09	1.19	0.15	13.29	0.76	0.40	2.02	2	1.94
B_09	3122	TR=200_LAM	91.00	10.49	2.76	13.25	12.03	1.22	0.12	13.26	0.62	0.32	2.07	1	1.98
B_09	3122	TR=200_NON_LAM	93.00	10.49	2.79	13.28	12.03	1.25	0.12	13.28	0.62	0.33	2.09	1	2.01
B_09	3108		Bridge												
B_09	3095	TR=200_LAM	91.00	10.48	2.77	13.25	11.98	1.27	0.12	13.25	0.64	0.34	2.07	1	1.95
B_09	3095	TR=200_NON_LAM	93.00	10.48	2.80	13.28	11.98	1.30	0.12	13.28	0.65	0.34	2.10	1	1.97
B_09	3014	TR=200_LAM	91.00	10.46	2.78	13.24	11.96	1.28	0.15	13.25	0.78	0.42	2.08	2	1.95
B_09	3014	TR=200_NON_LAM	93.00	10.46	2.81	13.27	11.96	1.31	0.15	13.28	0.79	0.42	2.11	2	1.98
B_09	2938	TR=200_LAM	91.00	10.42	2.80	13.22	11.92	1.30	0.19	13.25	1.01	0.57	2.10	3	2.10
B_09	2938	TR=200_NON_LAM	93.00	10.42	2.83	13.25	11.92	1.33	0.19	13.28	1.01	0.57	2.13	3	2.13
B_09	2887		Bridge												
B_09	2836	TR=200_LAM	91.00	10.37	1.80	12.17	12.17	0.00	0.81	12.55	3.41	1.79	1.35	41	0.80
B_09	2836	TR=200_NON_LAM	93.00	10.37	1.81	12.18	12.18	0.00	0.81	12.57	3.43	1.80	1.36	42	0.81
B_09	2768	TR=200_LAM	91.00	10.33	1.92	12.25	11.83	0.42	0.25	12.27	1.07	0.48	1.44	4	1.06
B_09	2768	TR=200_NON_LAM	93.00	10.33	1.93	12.26	11.83	0.43	0.25	12.28	1.08	0.49	1.45	4	1.07

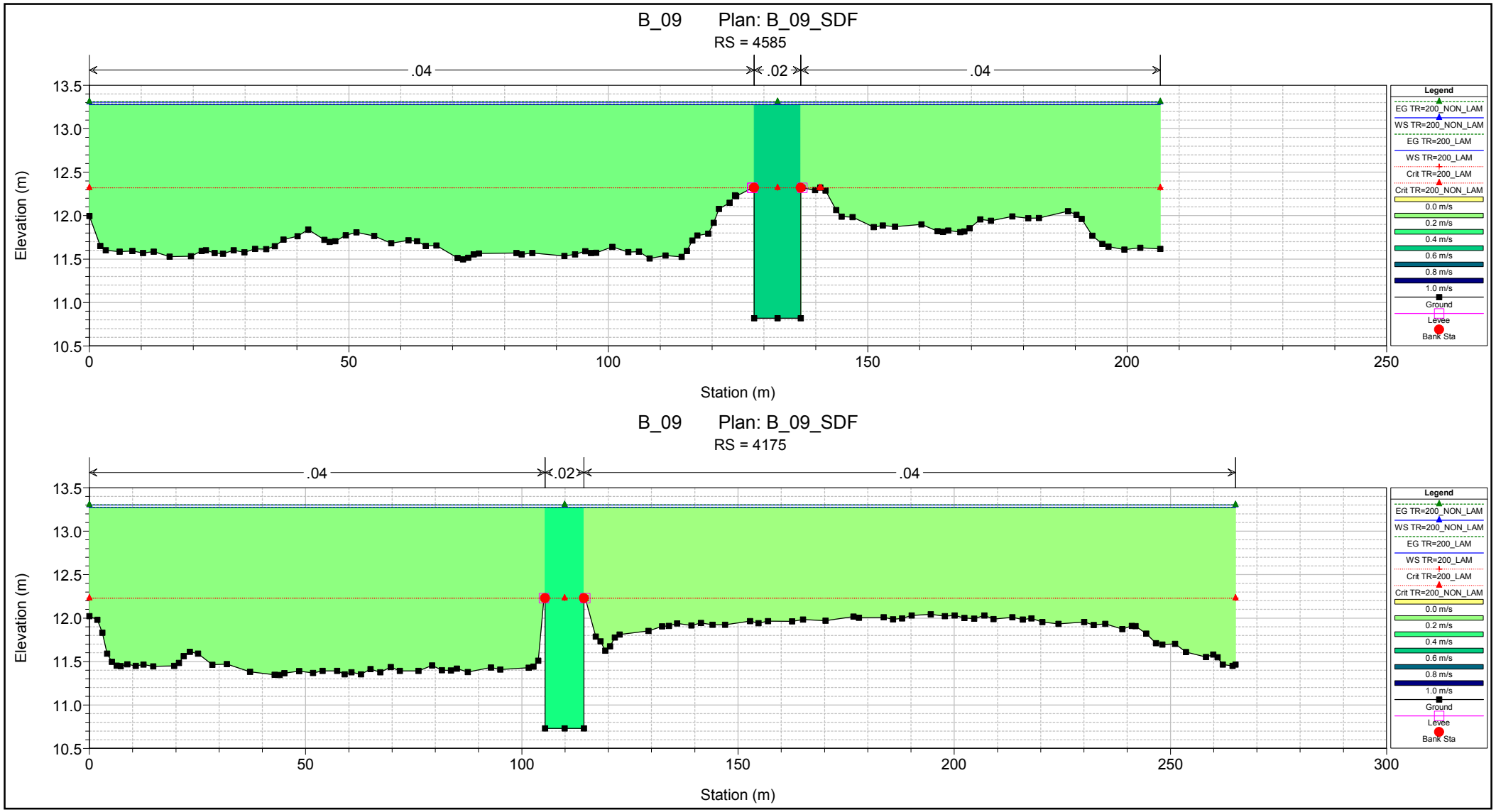
HEC-RAS Plan: SDF River: B_09 Reach: B_09 (Continued)

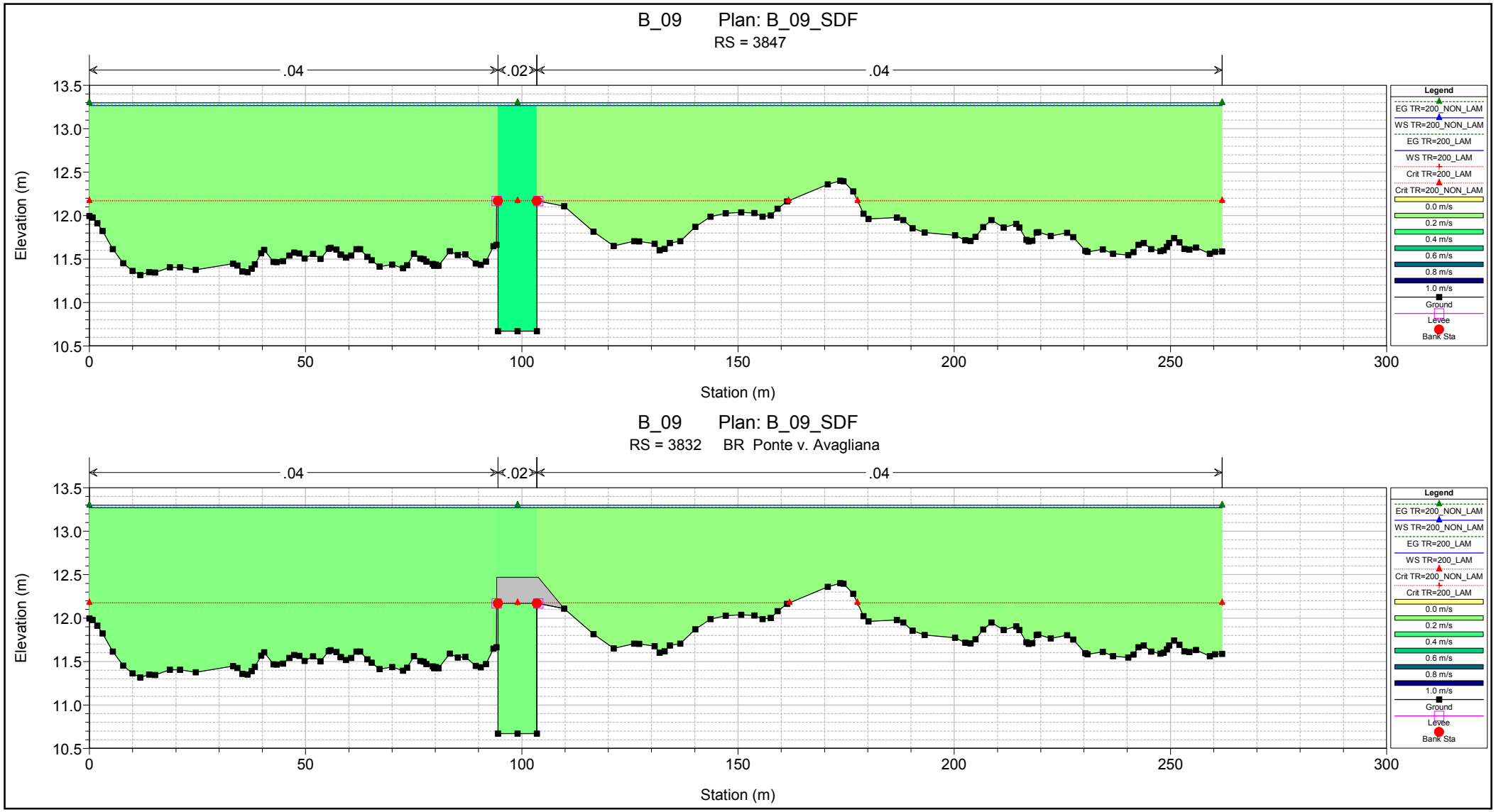
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_09	2694	TR=200_LAM	91.00	10.30	1.95	12.25	11.80	0.45	0.22	12.26	0.97	0.43	1.46	3	1.08
B_09	2694	TR=200_NON_LAM	93.00	10.30	1.96	12.26	11.80	0.46	0.22	12.28	0.97	0.44	1.47	3	1.09
B_09	2577	TR=200_LAM	91.00	10.24	2.00	12.24	11.74	0.50	0.24	12.25	1.06	0.46	1.50	4	1.06
B_09	2577	TR=200_NON_LAM	93.00	10.24	2.01	12.25	11.74	0.51	0.24	12.27	1.06	0.47	1.51	4	1.08
B_09	2469	TR=200_LAM	91.00	10.21	1.98	12.19	11.97	0.22	0.34	12.24	1.51	0.67	1.49	8	0.98
B_09	2469	TR=200_NON_LAM	93.00	10.21	2.00	12.21	11.97	0.24	0.34	12.25	1.52	0.67	1.50	8	1.00
B_09	2455		Bridge												
B_09	2442	TR=200_LAM	91.00	10.20	1.98	12.18	11.75	0.43	0.33	12.23	1.46	0.66	1.49	7	1.02
B_09	2442	TR=200_NON_LAM	93.00	10.20	2.00	12.20	11.76	0.44	0.33	12.24	1.47	0.67	1.50	7	1.04
B_09	2288	TR=200_LAM	91.00	10.16	1.99	12.15	11.72	0.43	0.35	12.20	1.56	0.70	1.49	8	1.00
B_09	2288	TR=200_NON_LAM	93.00	10.16	2.00	12.16	11.73	0.43	0.35	12.21	1.57	0.70	1.50	8	1.01
B_09	2065	TR=200_LAM	91.00	10.09	2.02	12.11	11.78	0.33	0.36	12.16	1.60	0.69	1.51	9	0.91
B_09	2065	TR=200_NON_LAM	93.00	10.09	2.03	12.12	11.79	0.33	0.36	12.17	1.61	0.69	1.52	9	0.93
B_09	2055		Bridge												
B_09	2045	TR=200_LAM	91.00	10.08	2.01	12.09	11.78	0.31	0.36	12.14	1.60	0.68	1.51	9	0.91
B_09	2045	TR=200_NON_LAM	93.00	10.08	2.03	12.11	11.79	0.32	0.36	12.16	1.60	0.69	1.52	9	0.92
B_09	1848	TR=200_LAM	91.00	10.01	2.02	12.03	11.73	0.30	0.41	12.10	1.81	0.77	1.52	11	0.87
B_09	1848	TR=200_NON_LAM	93.00	10.01	2.03	12.04	11.74	0.30	0.41	12.11	1.82	0.78	1.52	11	0.88
B_09	1642	TR=200_LAM	91.00	9.94	2.04	11.98	11.79	0.19	0.41	12.05	1.84	0.75	1.53	11	0.81
B_09	1642	TR=200_NON_LAM	93.00	9.94	2.05	11.99	11.81	0.18	0.41	12.07	1.84	0.76	1.54	12	0.82
B_09	1630		Bridge												
B_09	1619	TR=200_LAM	91.00	9.93	1.78	11.71	11.71	0.00	0.75	12.01	3.12	1.49	1.34	35	0.71
B_09	1619	TR=200_NON_LAM	93.00	9.93	1.79	11.72	11.72	0.00	0.75	12.02	3.15	1.50	1.34	35	0.72
B_09	1468	TR=200_LAM	91.00	9.88	1.74	11.62	11.45	0.17	0.53	11.73	2.18	0.92	1.31	17	0.66

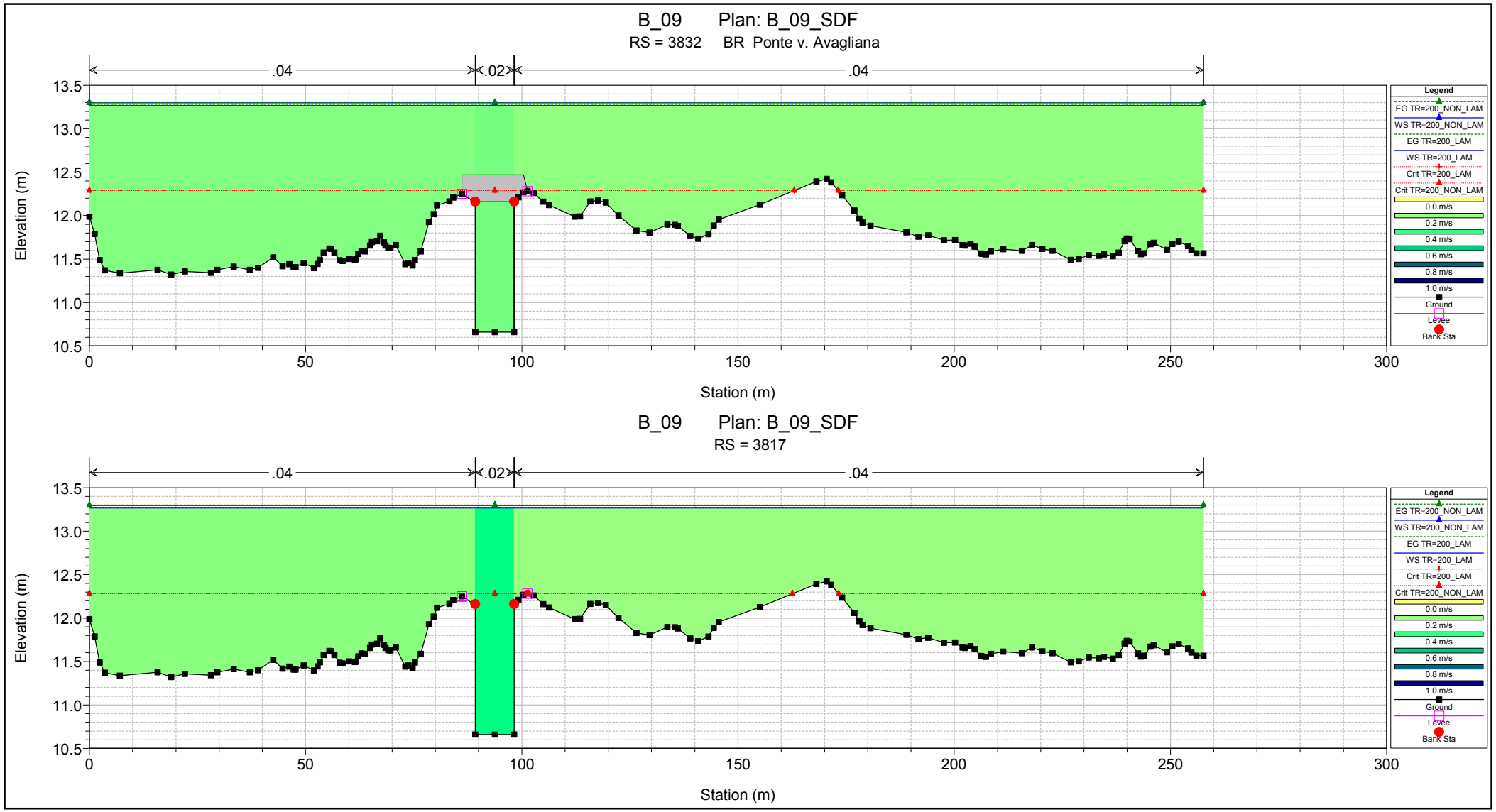
HEC-RAS Plan: SDF River: B_09 Reach: B_09 (Continued)

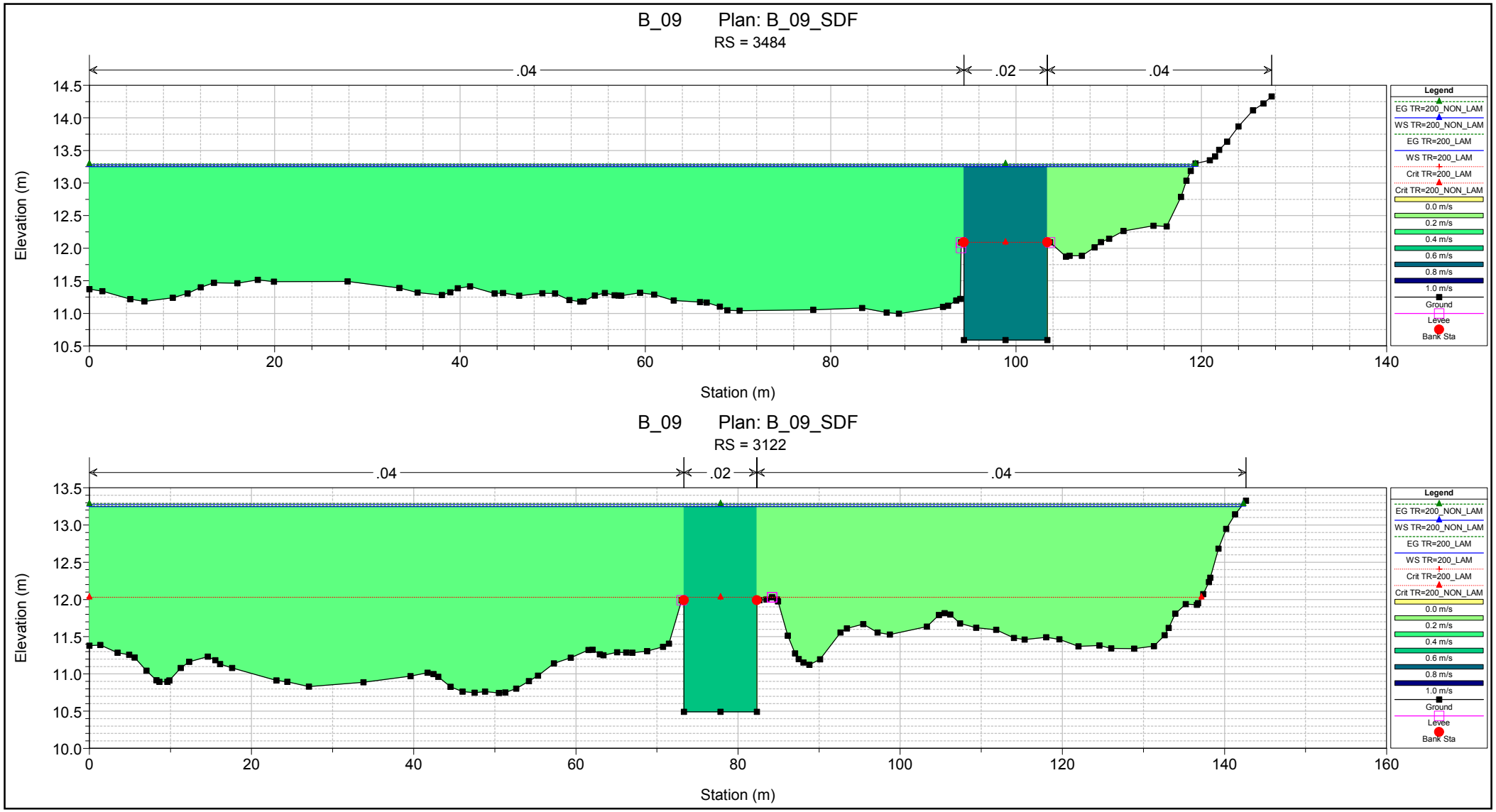
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_09	1468	TR=200_NON_LAM	93.00	9.88	1.75	11.63	11.46	0.17	0.53	11.74	2.19	0.92	1.31	17	0.67
B_09	1071	TR=200_LAM	91.00	9.74	1.77	11.51	11.31	0.20	0.46	11.58	1.91	0.77	1.33	13	0.70
B_09	1071	TR=200_NON_LAM	93.00	9.74	1.78	11.52	11.32	0.20	0.46	11.59	1.92	0.77	1.33	13	0.71

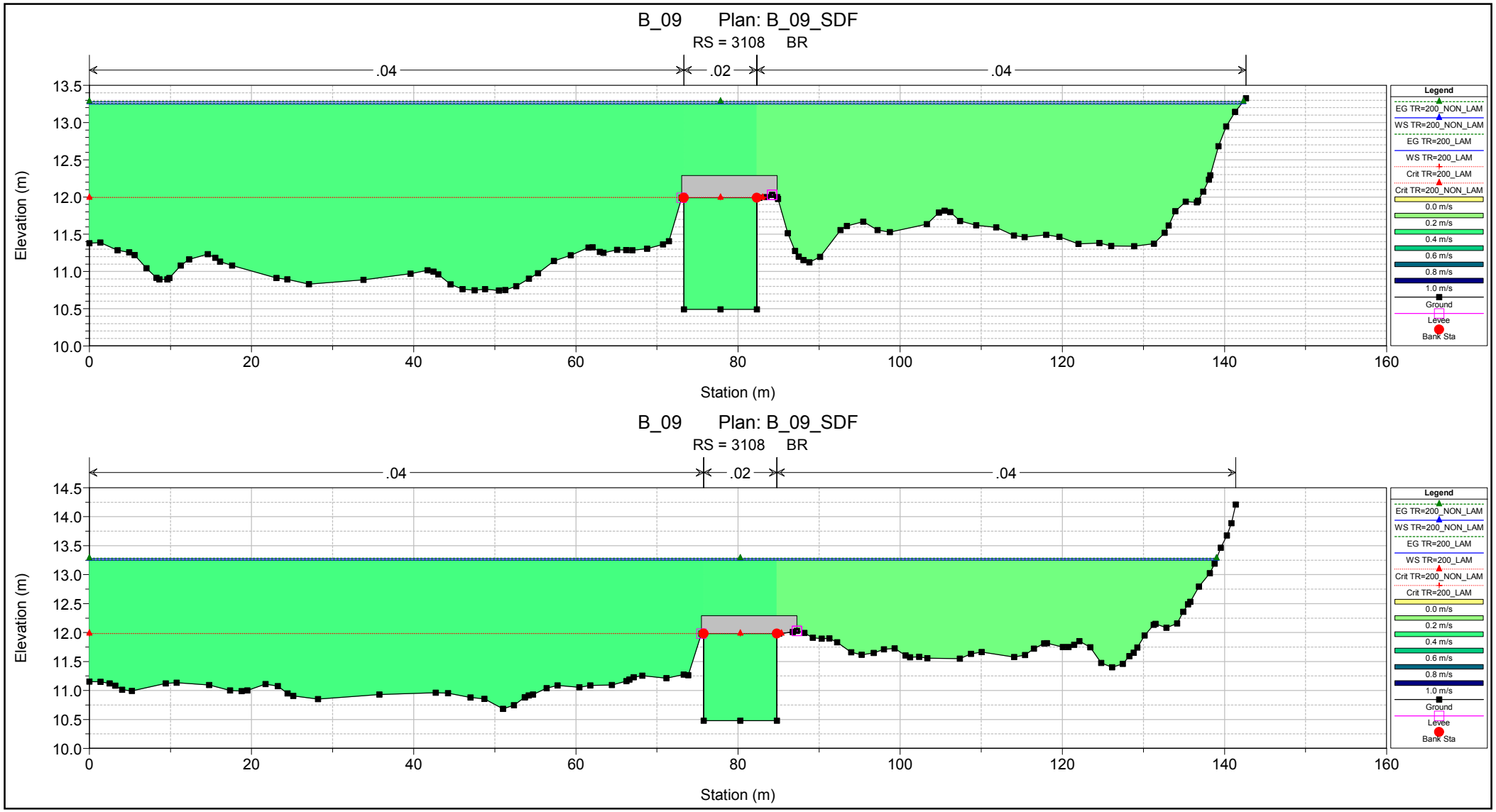

B_09 Plan: B_09_SDF
B_09 B_09
Elevation (m)
Main Channel Distance (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
Ground
Left Levee
Right Levee
Ponte SS 2
1468
1619
1848
2045
2288
2442
2577
2694
2768
2836
2887
3014
3095
3484
3817
4175
4585

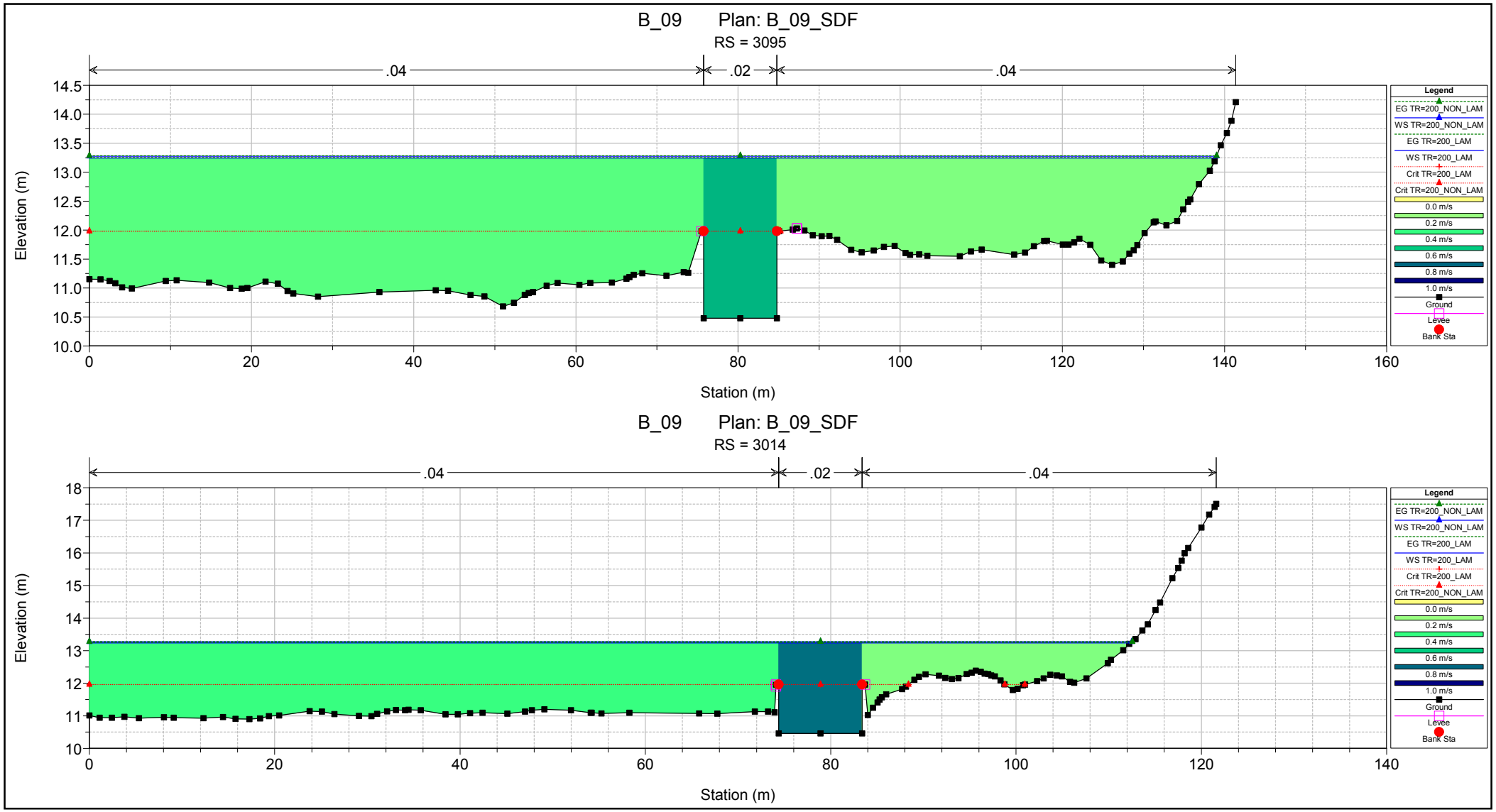

B_09 Plan: B_09_SDF
RS = 4585
.04
.02
.04
Elevation (m)
Station (m)
13.5
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 4175
.04
.02
.04
Elevation (m)
Station (m)
13.5
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
300
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

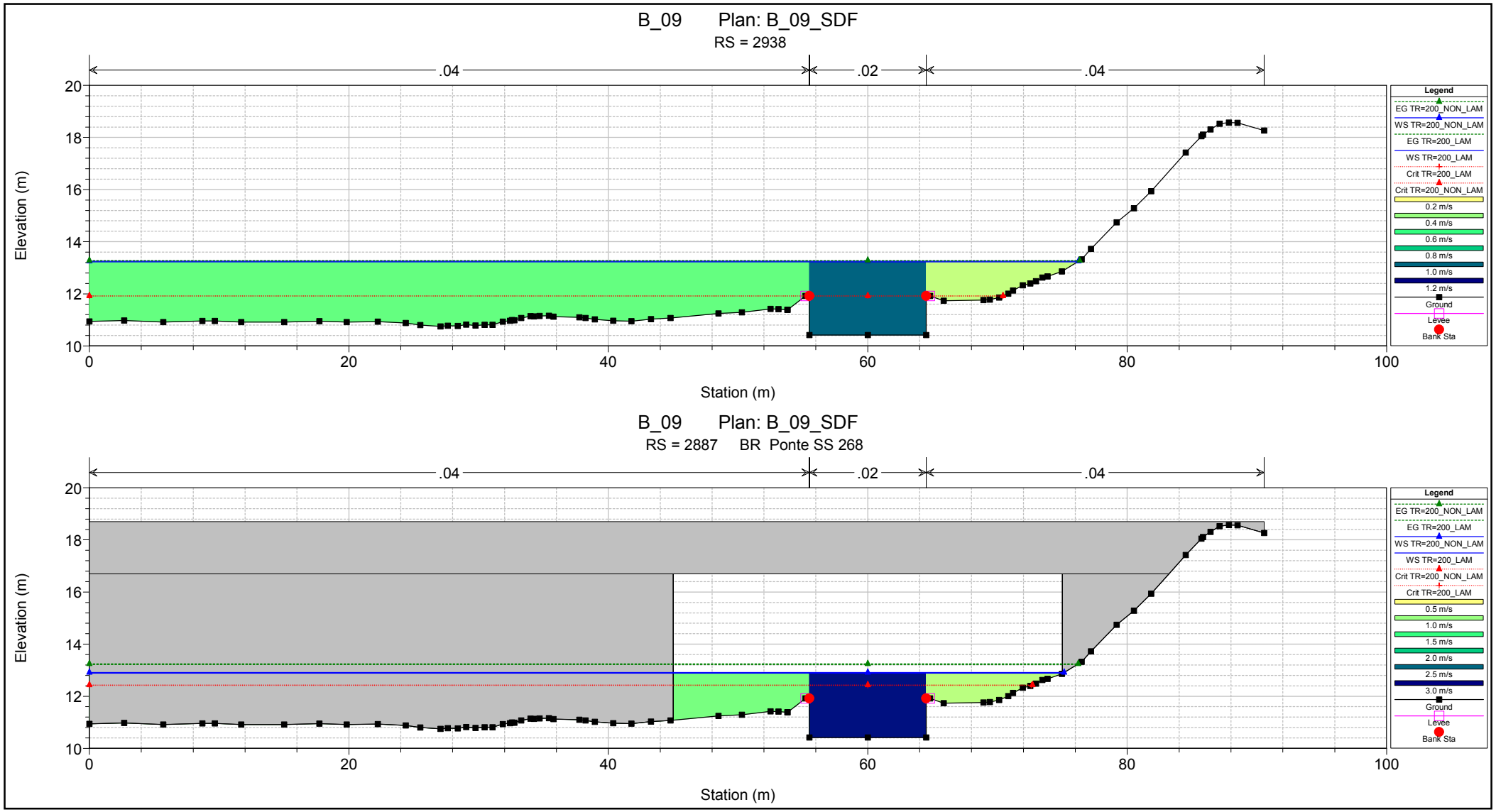

B_09 Plan: B_09_SDF
RS = 3847
.04
.02
.04
Elevation (m)
13.5
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 3832 BR Ponte v. Avagliana
.04
.02
.04
Elevation (m)
13.5
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

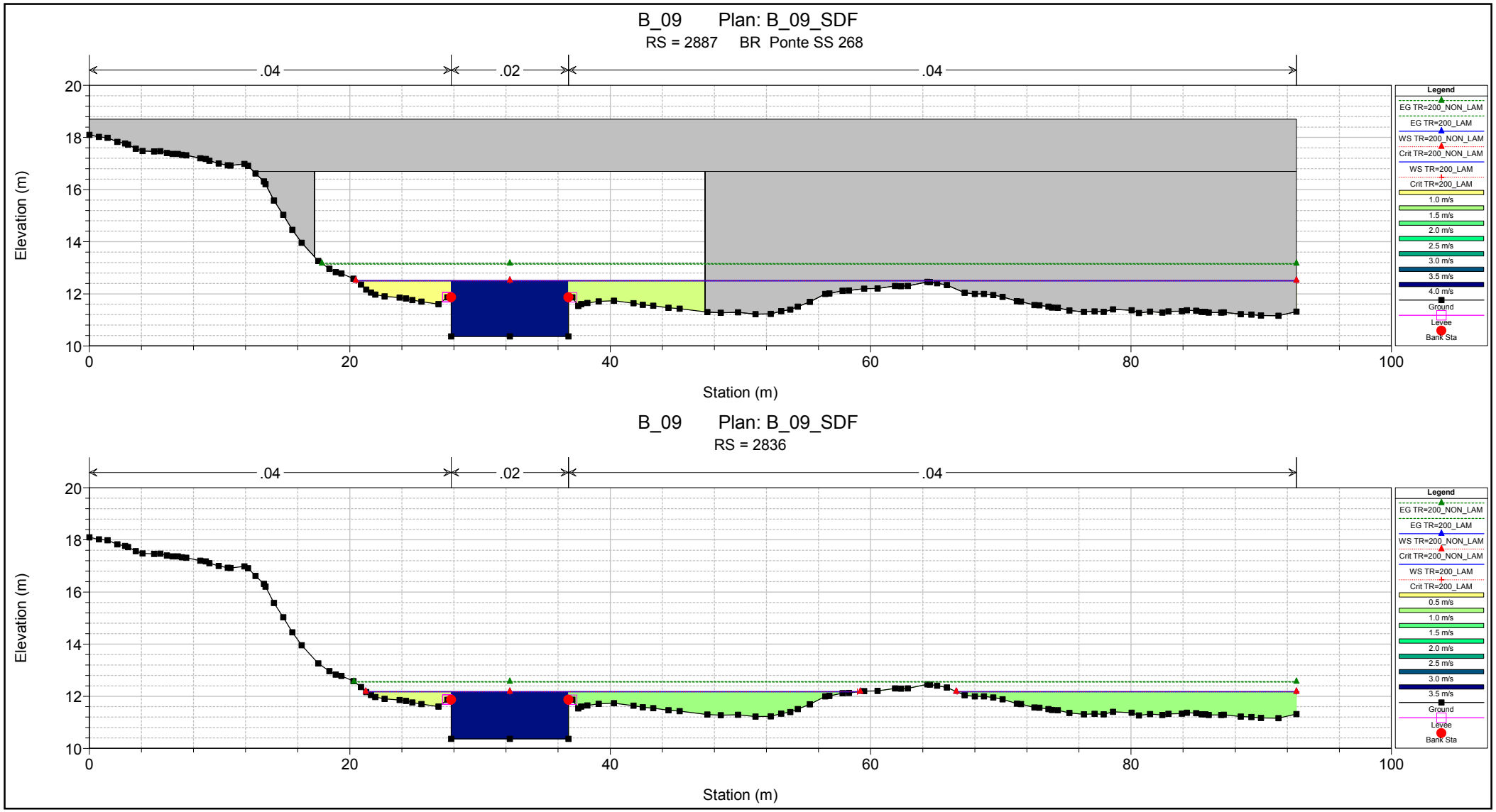

B_09 Plan: B_09_SDF
RS = 3832 BR Ponte v. Avagliana
.04
.02
.04
Elevation (m)
13.5
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 3817
.04
.02
.04
Elevation (m)
13.5
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

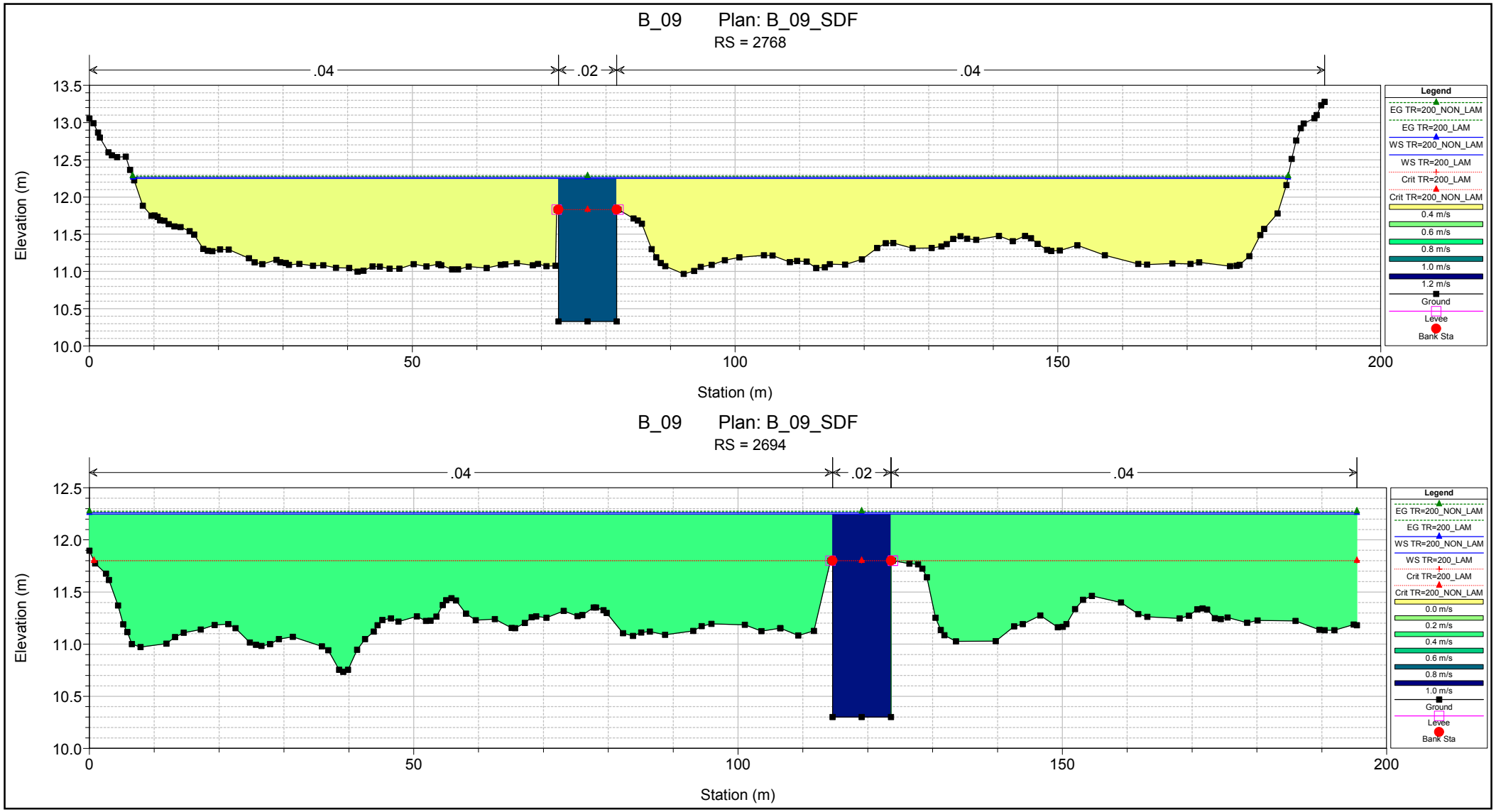

B_09 Plan: B_09_SDF
RS = 3484
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 3122
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

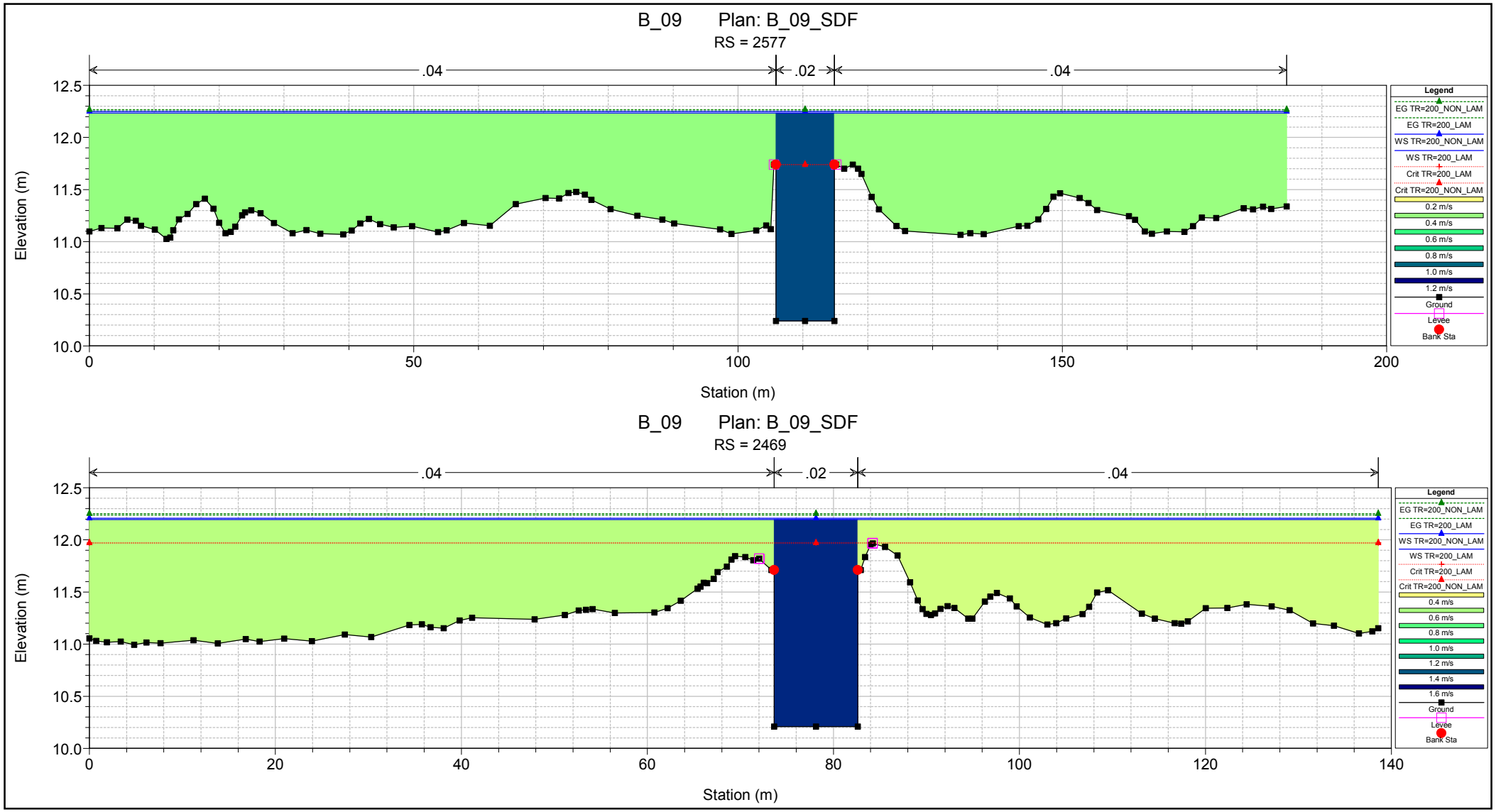

B_09 Plan: B_09_SDF
RS = 3108 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 3108 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

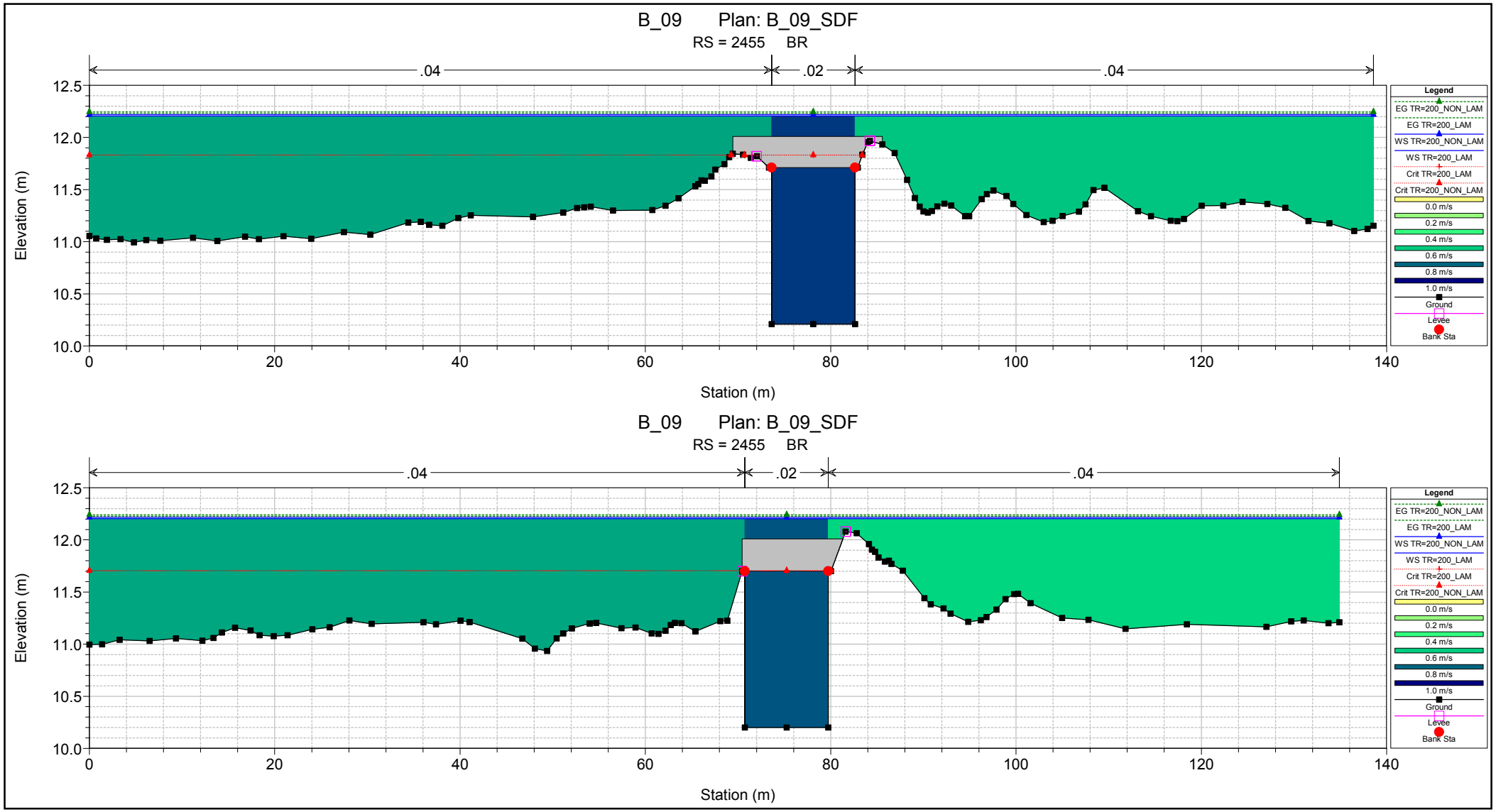

B_09 Plan: B_09_SDF
RS = 3095
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 3014
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

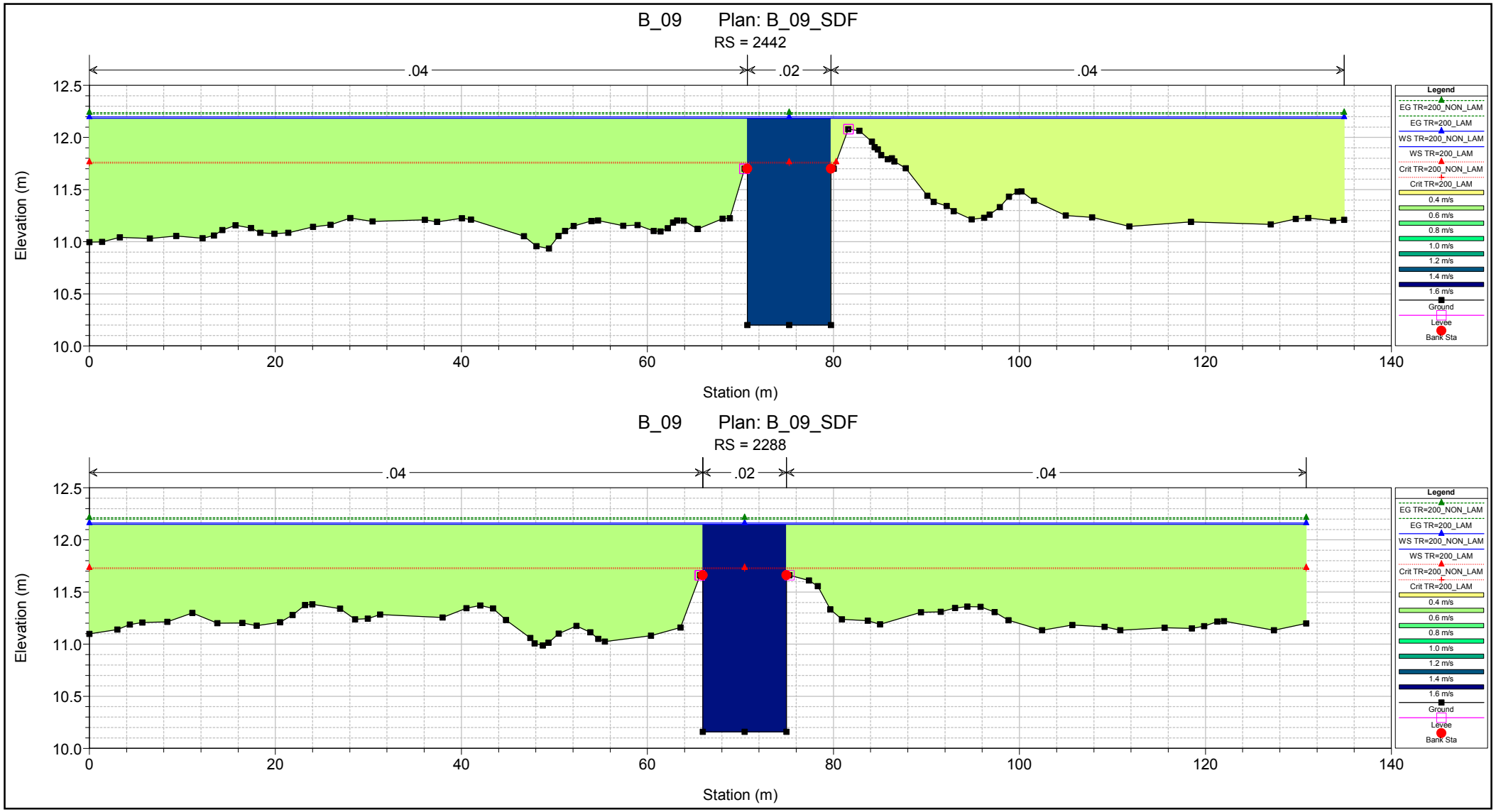

B_09 Plan: B_09_SDF
RS = 2938
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 2887 BR Ponte SS 268
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
Ground
Levee
Bank Sta

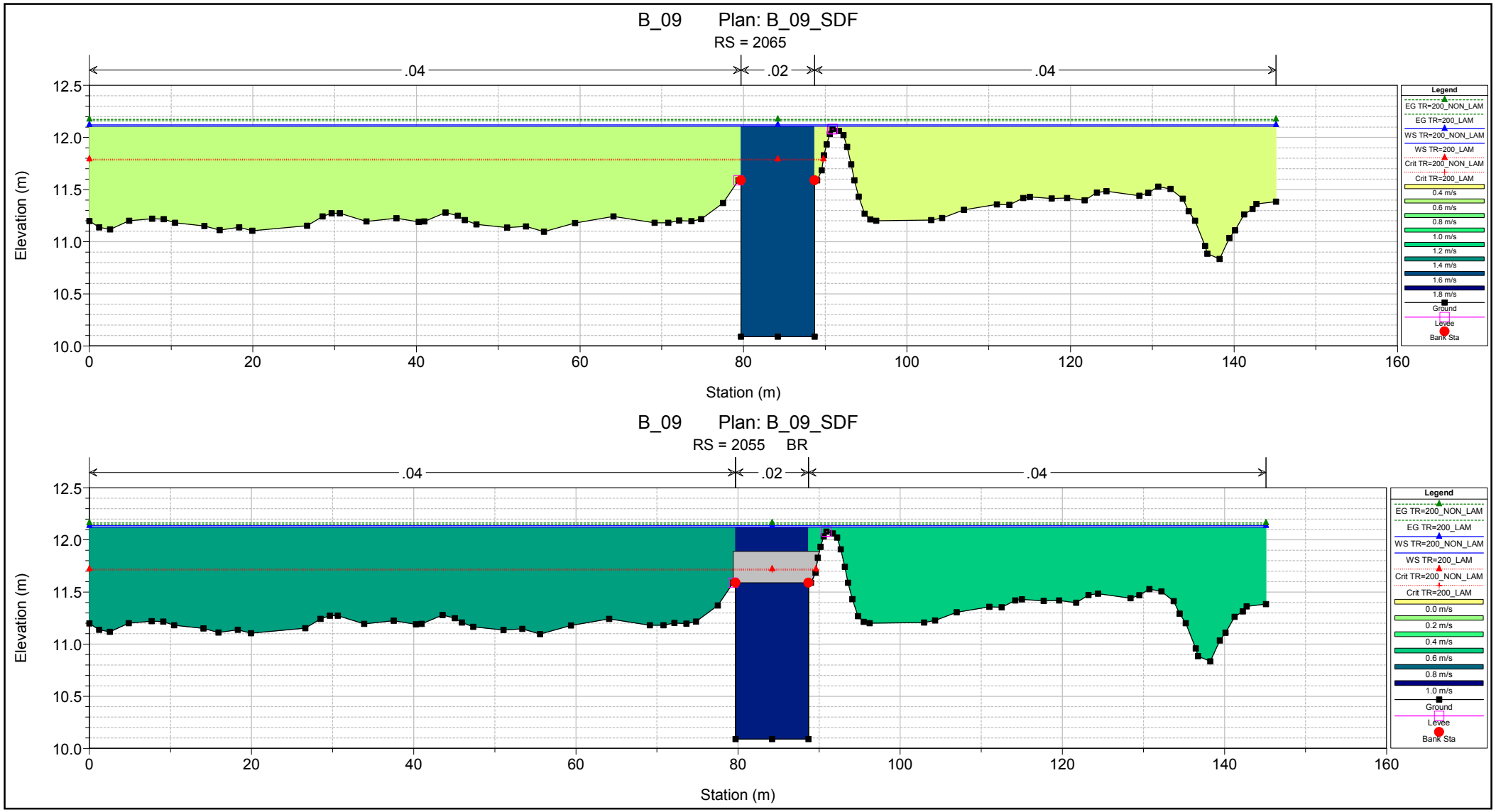

B_09 Plan: B_09_SDF
RS = 2887 BR Ponte SS 268
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
3.5 m/s
4.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 2836
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
3.5 m/s
Ground
Levee
Bank Sta

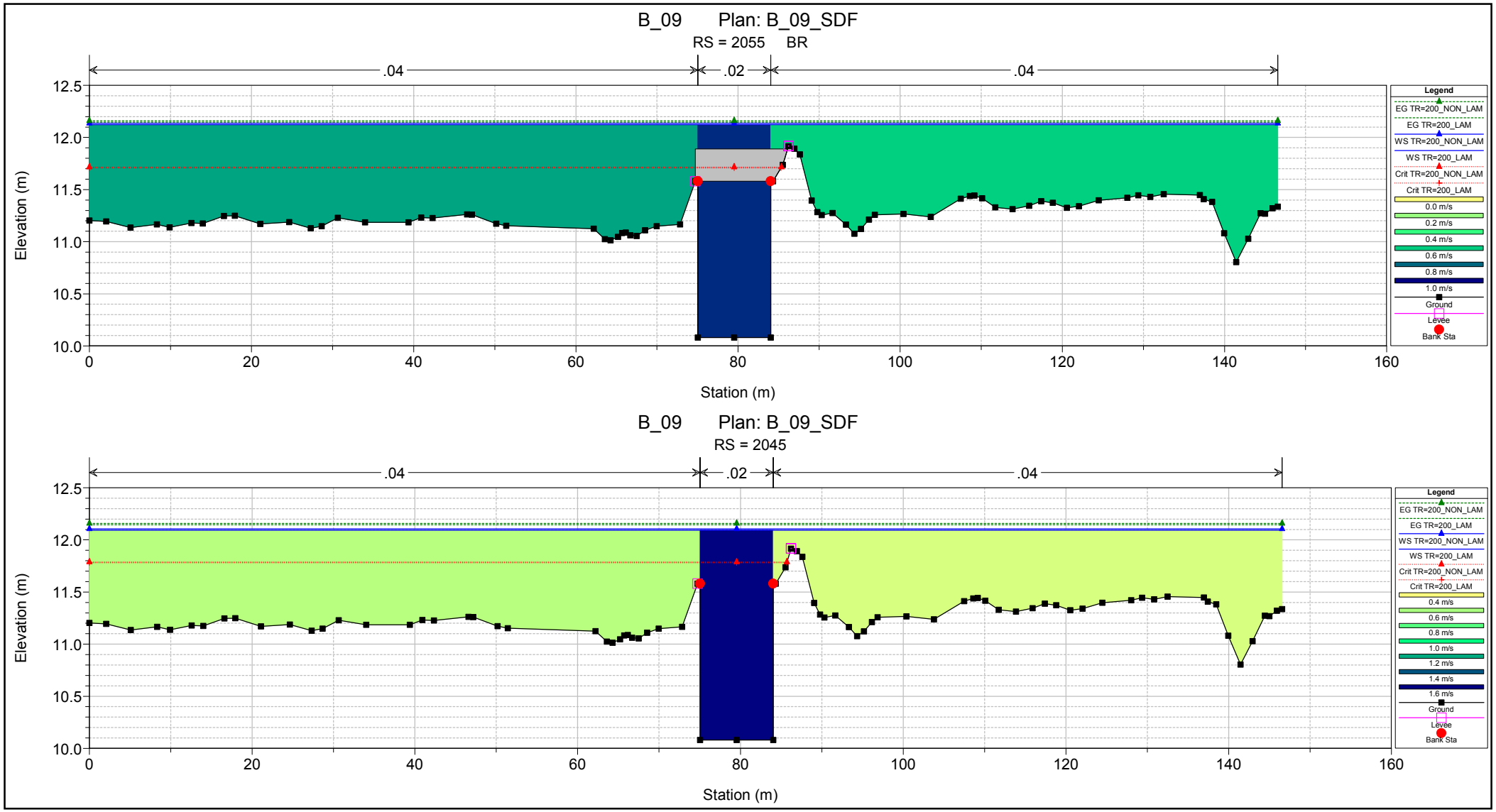

B_09 Plan: B_09_SDF
RS = 2768
.04
.02
.04
Elevation (m)
13.5
13.0
12.5
12.0
11.5
11.0
10.5
10.0
0
50
100
150
200
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 2694
.04
.02
.04
Elevation (m)
12.5
12.0
11.5
11.0
10.5
10.0
0
50
100
150
200
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

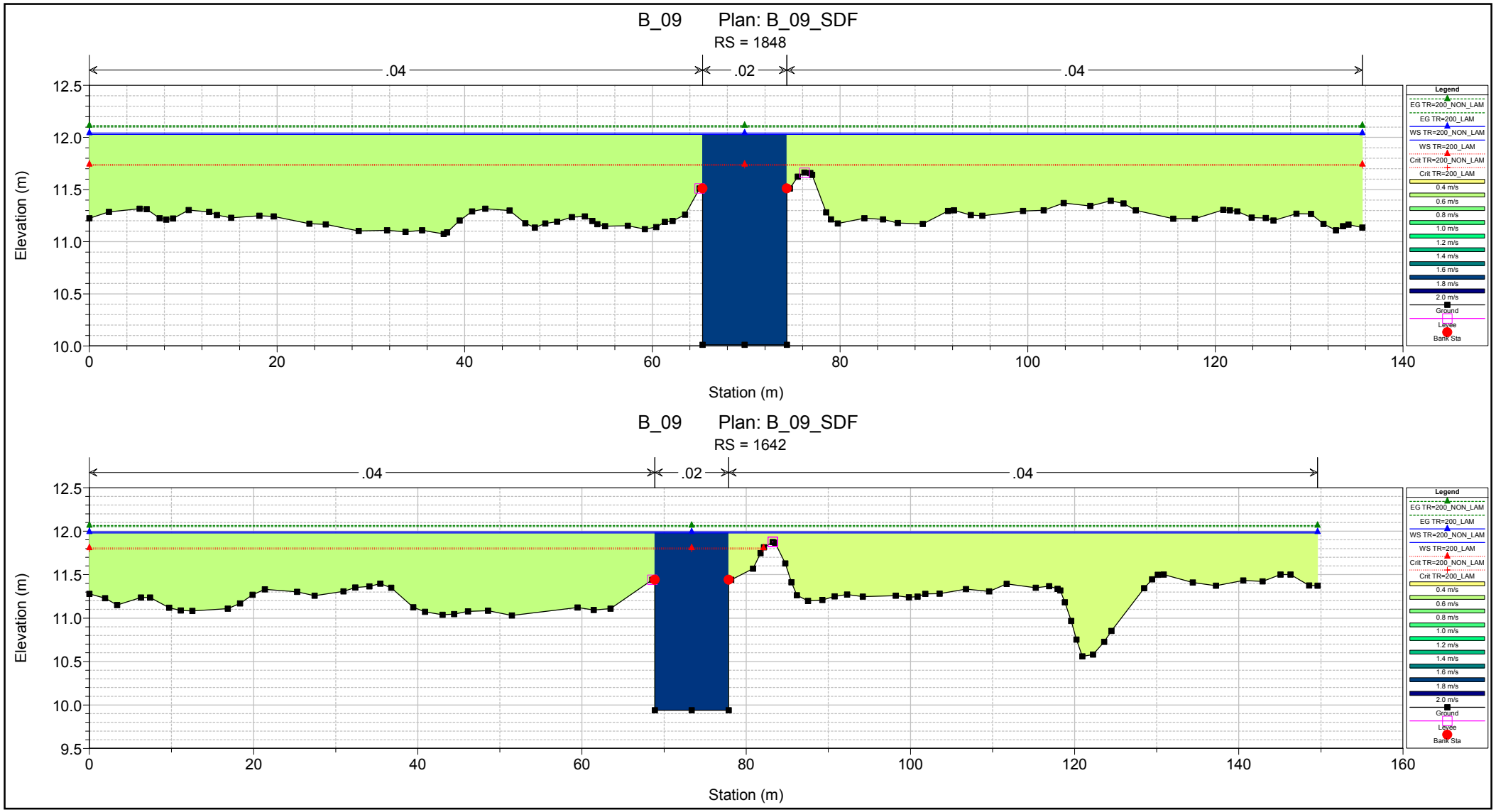

B_09 Plan: B_09_SDF
RS = 2577
.04
.02
.04
Elevation (m)
12.5
12.0
11.5
11.0
10.5
10.0
0
50
100
150
200
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 2469
.04
.02
.04
Elevation (m)
12.5
12.0
11.5
11.0
10.5
10.0
0
20
40
60
80
100
120
140
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Levee
Bank Sta

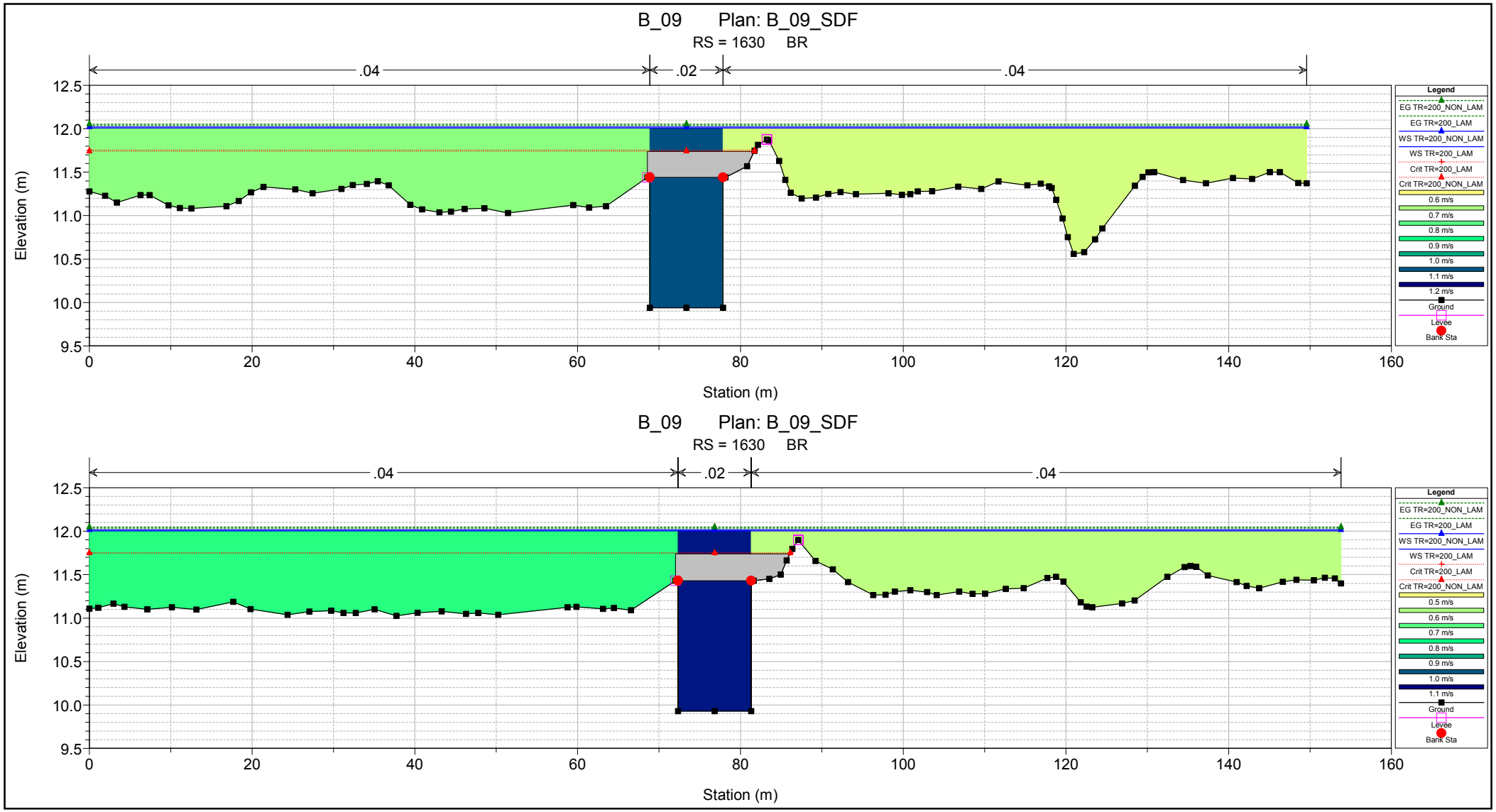

B_09 Plan: B_09_SDF
RS = 2455 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 2455 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

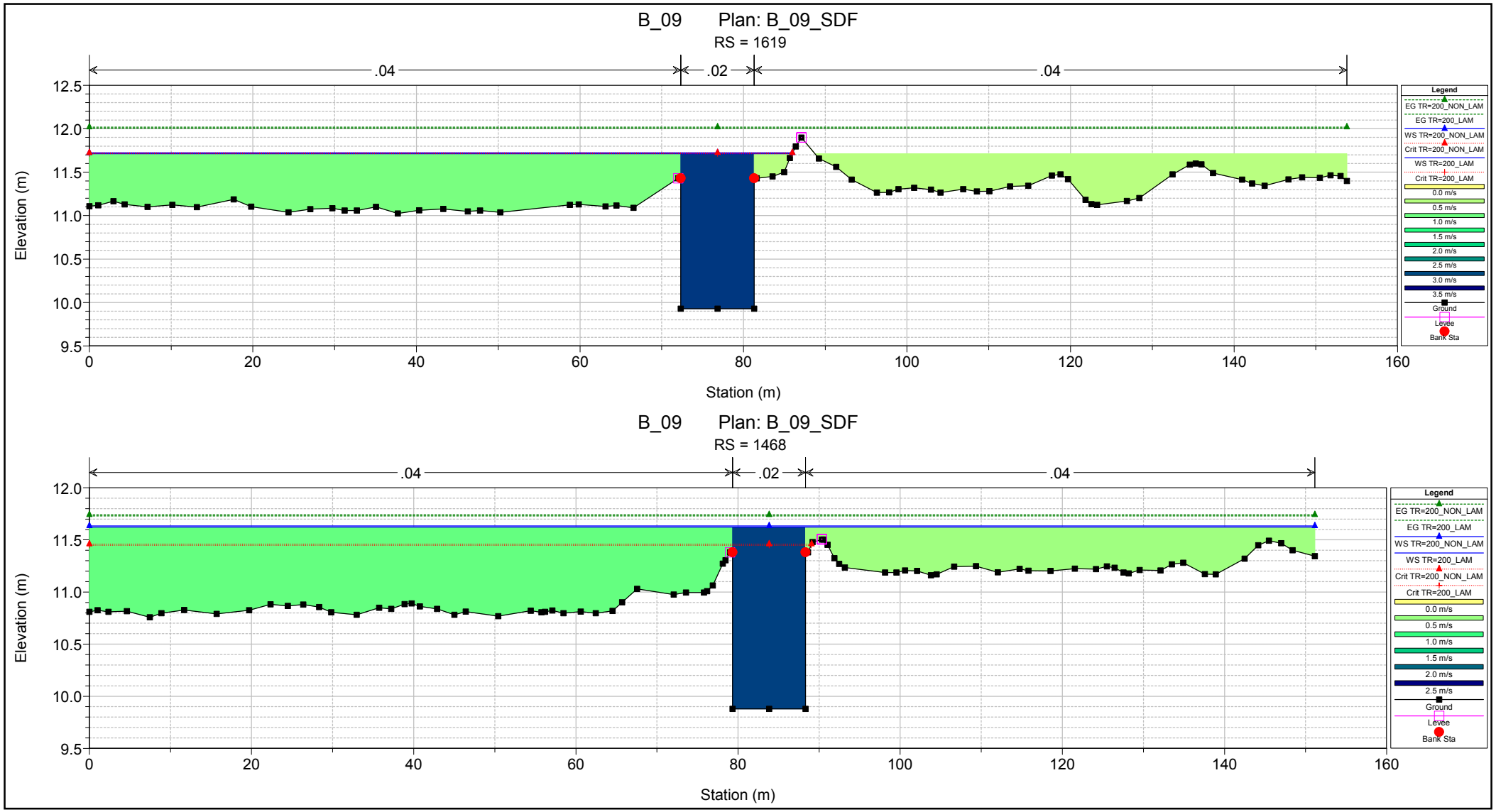

B_09 Plan: B_09_SDF
RS = 2442
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 2288
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Levee
Bank Sta

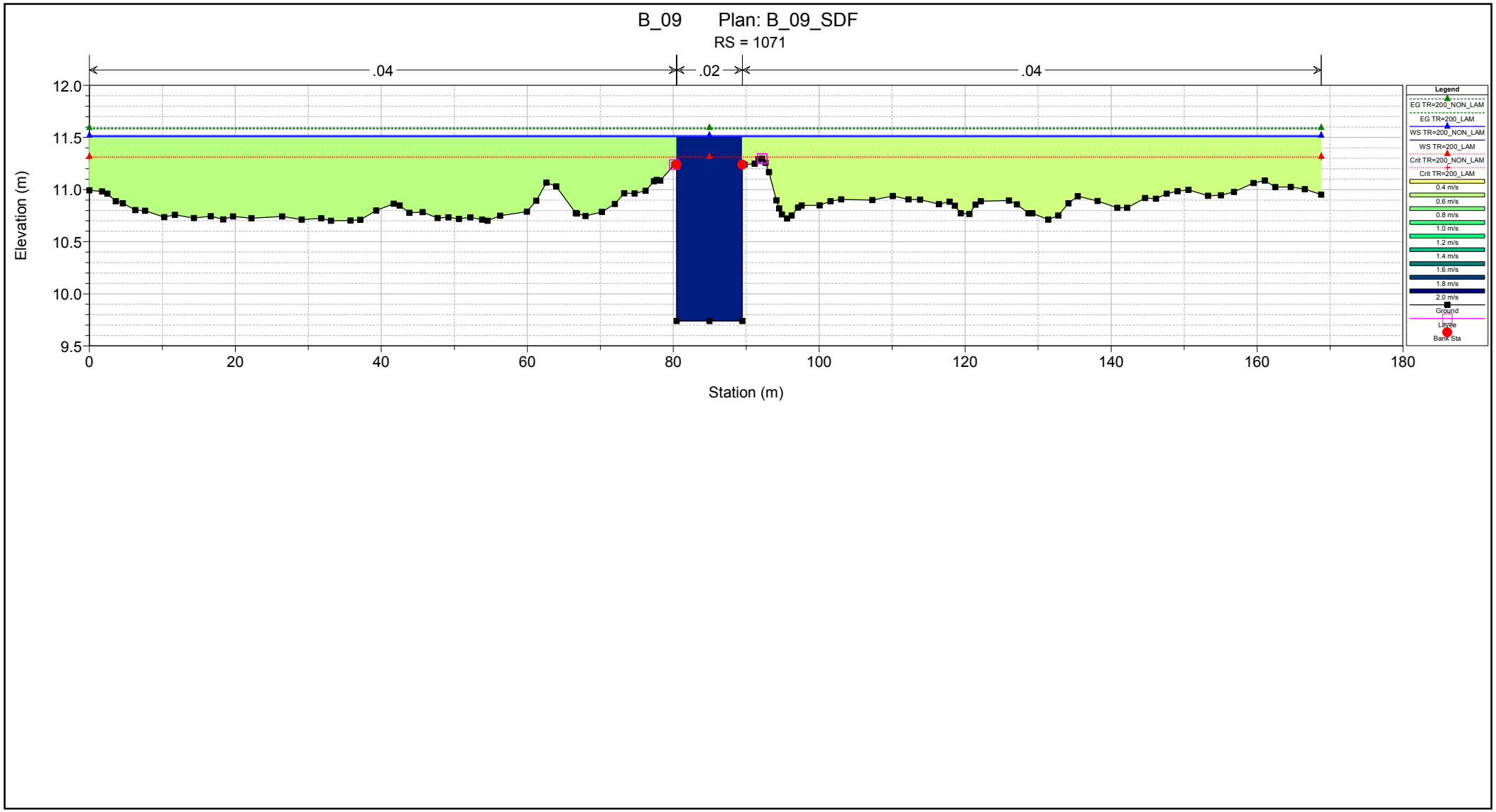

B_09 Plan: B_09_SDF
RS = 2065
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 2055 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_SDF
RS = 2055 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 2045
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_SDF
RS = 1848
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 1642
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_SDF
RS = 1630 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
1.2 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 1630 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.5 m/s
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_SDF
RS = 1619
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
3.5 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_SDF
RS = 1468
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_SDF
RS = 1071
.04
.02
.04
Elevation (m)
12.0
11.5
11.0
10.5
10.0
9.5
0
20
40
60
80
100
120
140
160
180
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
Ground
Levee
Bank Sta

3.1.2. Corso d’acqua B.10
(Configurazione di stato di fatto - Evento TR 200 anni)

HEC-RAS Plan: SDF River: B_10 Reach: B_10

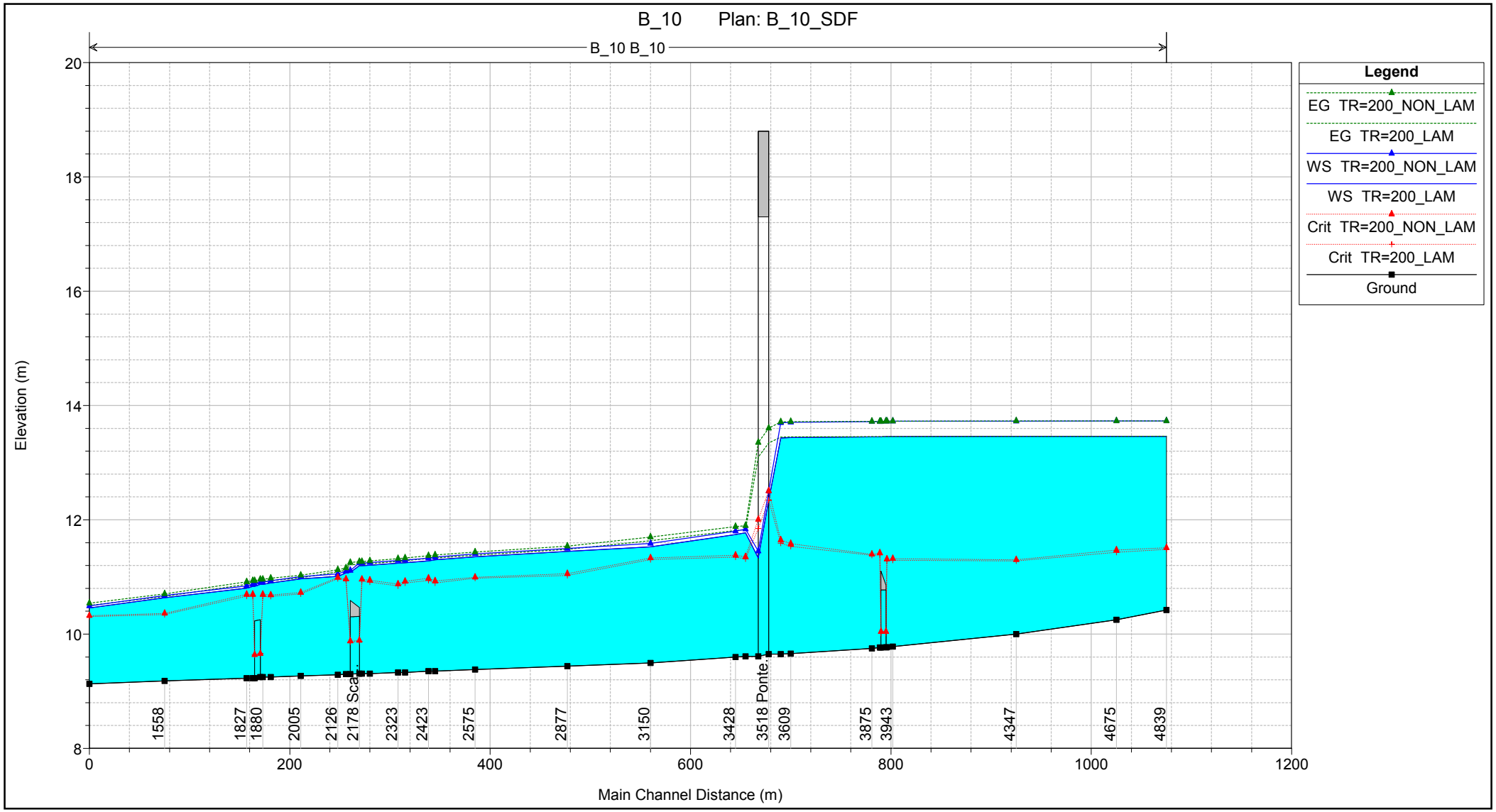
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_10	4839	TR=200_LAM	61.00	10.42	3.04	13.46	11.48	1.98	0.05	13.46	0.23	0.19	2.43	1	2.20
B_10	4839	TR=200_NON_LAM	69.00	10.42	3.31	13.73	11.51	2.22	0.04	13.73	0.23	0.20	2.70	1	2.47
B_10	4675	TR=200_LAM	61.00	10.25	3.21	13.46	11.43	2.03	0.05	13.46	0.25	0.18	2.76	0	2.32
B_10	4675	TR=200_NON_LAM	69.00	10.25	3.48	13.73	11.47	2.26	0.04	13.73	0.25	0.18	3.02	0	2.59
B_10	4347	TR=200_LAM	61.00	10.00	3.46	13.46	11.28	2.18	0.04	13.46	0.20	0.15	2.81	0	2.48
B_10	4347	TR=200_NON_LAM	69.00	10.00	3.73	13.73	11.30	2.43	0.04	13.73	0.20	0.15	3.06	0	2.75
B_10	3943	TR=200_LAM	61.00	9.78	3.67	13.45	11.29	2.16	0.05	13.46	0.28	0.21	2.81	1	2.55
B_10	3943	TR=200_NON_LAM	69.00	9.78	3.94	13.72	11.32	2.40	0.05	13.73	0.28	0.22	3.04	1	2.82
B_10	3924	TR=200_LAM	61.00	9.77	3.68	13.45	11.29	2.16	0.05	13.46	0.29	0.22	2.92	1	2.57
B_10	3924	TR=200_NON_LAM	69.00	9.77	3.95	13.72	11.31	2.41	0.05	13.73	0.30	0.23	3.17	1	2.84
B_10	3912		Culvert												
B_10	3901	TR=200_LAM	61.00	9.76	3.69	13.45	11.39	2.06	0.06	13.45	0.32	0.23	3.12	1	2.50
B_10	3901	TR=200_NON_LAM	69.00	9.76	3.95	13.72	11.42	2.30	0.06	13.72	0.33	0.24	3.38	1	2.76
B_10	3875	TR=200_LAM	61.00	9.75	3.70	13.45	11.38	2.07	0.06	13.45	0.32	0.24	2.83	1	2.48
B_10	3875	TR=200_NON_LAM	69.00	9.75	3.97	13.72	11.40	2.32	0.05	13.72	0.32	0.24	3.07	1	2.75
B_10	3609	TR=200_LAM	61.00	9.66	3.78	13.44	11.53	1.91	0.11	13.45	0.61	0.45	2.87	3	2.43
B_10	3609	TR=200_NON_LAM	69.00	9.66	4.04	13.70	11.58	2.12	0.11	13.72	0.62	0.46	3.11	3	2.68
B_10	3576	TR=200_LAM	61.00	9.65	3.78	13.43	11.59	1.84	0.13	13.45	0.75	0.55	2.93	4	2.36
B_10	3576	TR=200_NON_LAM	69.00	9.65	4.05	13.70	11.64	2.06	0.13	13.72	0.76	0.56	3.17	4	2.60
B_10	3518		Bridge												
B_10	3461	TR=200_LAM	61.00	9.61	2.16	11.77	11.32	0.45	0.35	11.83	1.43	0.92	1.64	19	0.99
B_10	3461	TR=200_NON_LAM	69.00	9.61	2.23	11.84	11.35	0.49	0.36	11.90	1.51	0.98	1.70	20	1.05
B_10	3428	TR=200_LAM	61.00	9.60	2.14	11.74	11.35	0.39	0.40	11.81	1.62	1.05	1.57	24	0.96
B_10	3428	TR=200_NON_LAM	69.00	9.60	2.20	11.80	11.38	0.42	0.41	11.88	1.71	1.12	1.63	27	1.02
B_10	3150	TR=200_LAM	61.00	9.50	2.03	11.53	11.31	0.22	0.53	11.63	1.96	1.17	1.33	37	0.64

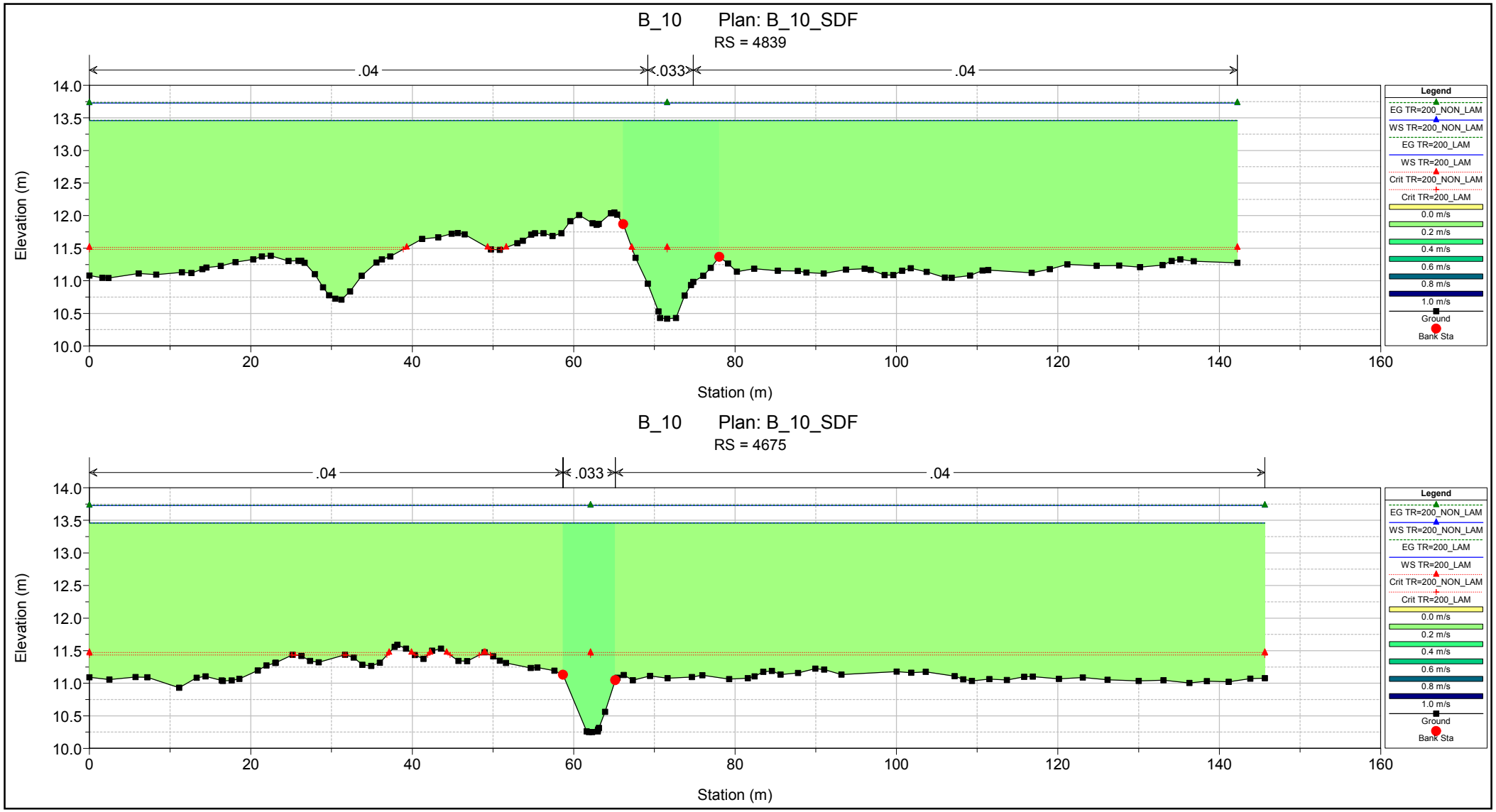
HEC-RAS Plan: SDF River: B_10 Reach: B_10 (Continued)

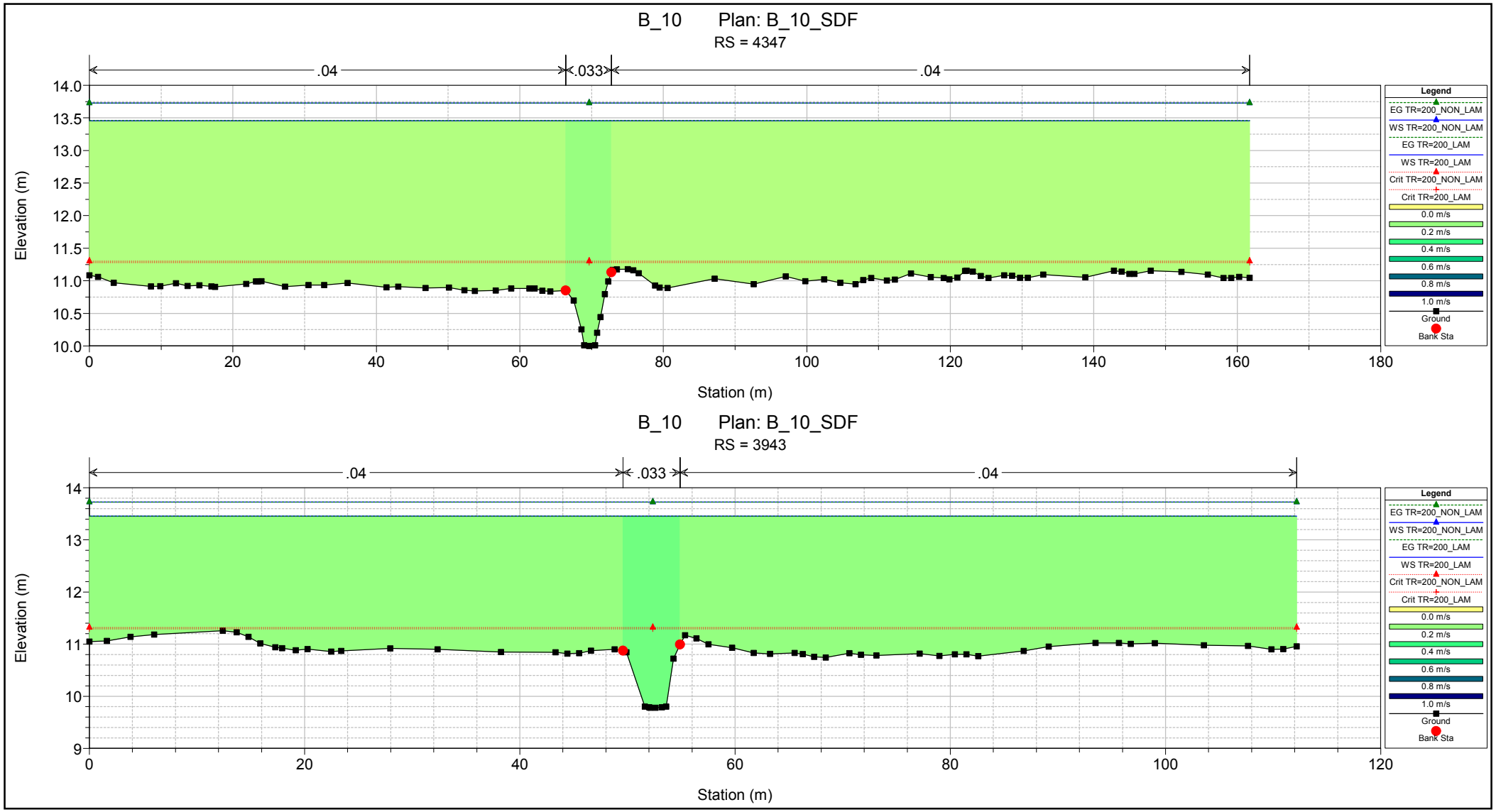
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_10	3150	TR=200_NON_LAM	69.00	9.50	2.09	11.59	11.33	0.26	0.53	11.70	2.01	1.21	1.38	39	0.69
B_10	2877	TR=200_LAM	61.00	9.44	2.01	11.45	11.03	0.42	0.31	11.48	1.21	0.76	1.42	14	0.87
B_10	2877	TR=200_NON_LAM	69.00	9.44	2.06	11.50	11.06	0.44	0.32	11.54	1.28	0.81	1.47	15	0.92
B_10	2575	TR=200_LAM	61.00	9.38	1.97	11.35	10.98	0.37	0.31	11.38	1.10	0.70	1.11	12	0.71
B_10	2575	TR=200_NON_LAM	69.00	9.38	2.02	11.40	10.99	0.41	0.32	11.43	1.15	0.74	1.15	13	0.76
B_10	2444	TR=200_LAM	61.00	9.35	1.95	11.30	10.90	0.40	0.32	11.33	1.13	0.73	1.09	13	0.63
B_10	2444	TR=200_NON_LAM	69.00	9.35	2.00	11.35	10.93	0.42	0.33	11.38	1.19	0.77	1.13	14	0.65
B_10	2423	TR=200_LAM	61.00	9.35	1.93	11.28	10.94	0.34	0.38	11.32	1.26	0.80	0.99	17	0.53
B_10	2423	TR=200_NON_LAM	69.00	9.35	1.98	11.33	10.98	0.35	0.39	11.37	1.30	0.83	1.03	18	0.58
B_10	2346	TR=200_LAM	61.00	9.33	1.92	11.25	10.89	0.36	0.34	11.28	1.13	0.75	0.95	14	0.52
B_10	2346	TR=200_NON_LAM	69.00	9.33	1.97	11.30	10.92	0.38	0.34	11.33	1.15	0.77	0.95	14	0.57
B_10	2323	TR=200_LAM	61.00	9.33	1.91	11.24	10.84	0.40	0.32	11.27	1.07	0.71	0.98	12	0.53
B_10	2323	TR=200_NON_LAM	69.00	9.33	1.96	11.29	10.87	0.42	0.33	11.32	1.10	0.74	1.00	13	0.57
B_10	2231	TR=200_LAM	61.00	9.31	1.89	11.20	10.91	0.29	0.35	11.23	1.15	0.68	0.97	14	0.54
B_10	2231	TR=200_NON_LAM	69.00	9.31	1.94	11.25	10.94	0.31	0.35	11.28	1.18	0.70	1.00	15	0.57
B_10	2205	TR=200_LAM	61.00	9.31	1.89	11.20	10.93	0.27	0.33	11.22	1.14	0.62	1.11	13	0.55
B_10	2205	TR=200_NON_LAM	69.00	9.31	1.93	11.24	10.96	0.28	0.33	11.27	1.16	0.64	1.15	14	0.59
B_10	2178		Culvert												
B_10	2152	TR=200_LAM	61.00	9.30	1.77	11.07	10.94	0.13	0.48	11.12	1.59	0.78	1.04	26	0.41
B_10	2152	TR=200_NON_LAM	69.00	9.30	1.80	11.10	10.96	0.14	0.48	11.16	1.62	0.82	1.08	27	0.44
B_10	2126	TR=200_LAM	61.00	9.29	1.72	11.01	10.97	0.04	0.67	11.09	2.03	0.98	0.83	47	0.33
B_10	2126	TR=200_NON_LAM	69.00	9.29	1.76	11.05	10.99	0.06	0.65	11.13	1.98	0.98	0.86	44	0.35
B_10	2005	TR=200_LAM	61.00	9.27	1.70	10.96	10.70	0.26	0.32	10.98	1.06	0.57	0.99	12	0.50
B_10	2005	TR=200_NON_LAM	69.00	9.27	1.74	11.01	10.73	0.28	0.32	11.03	1.08	0.60	1.03	12	0.54
B_10	1906	TR=200_LAM	61.00	9.25	1.64	10.89	10.66	0.23	0.43	10.93	1.34	0.83	0.89	20	0.55

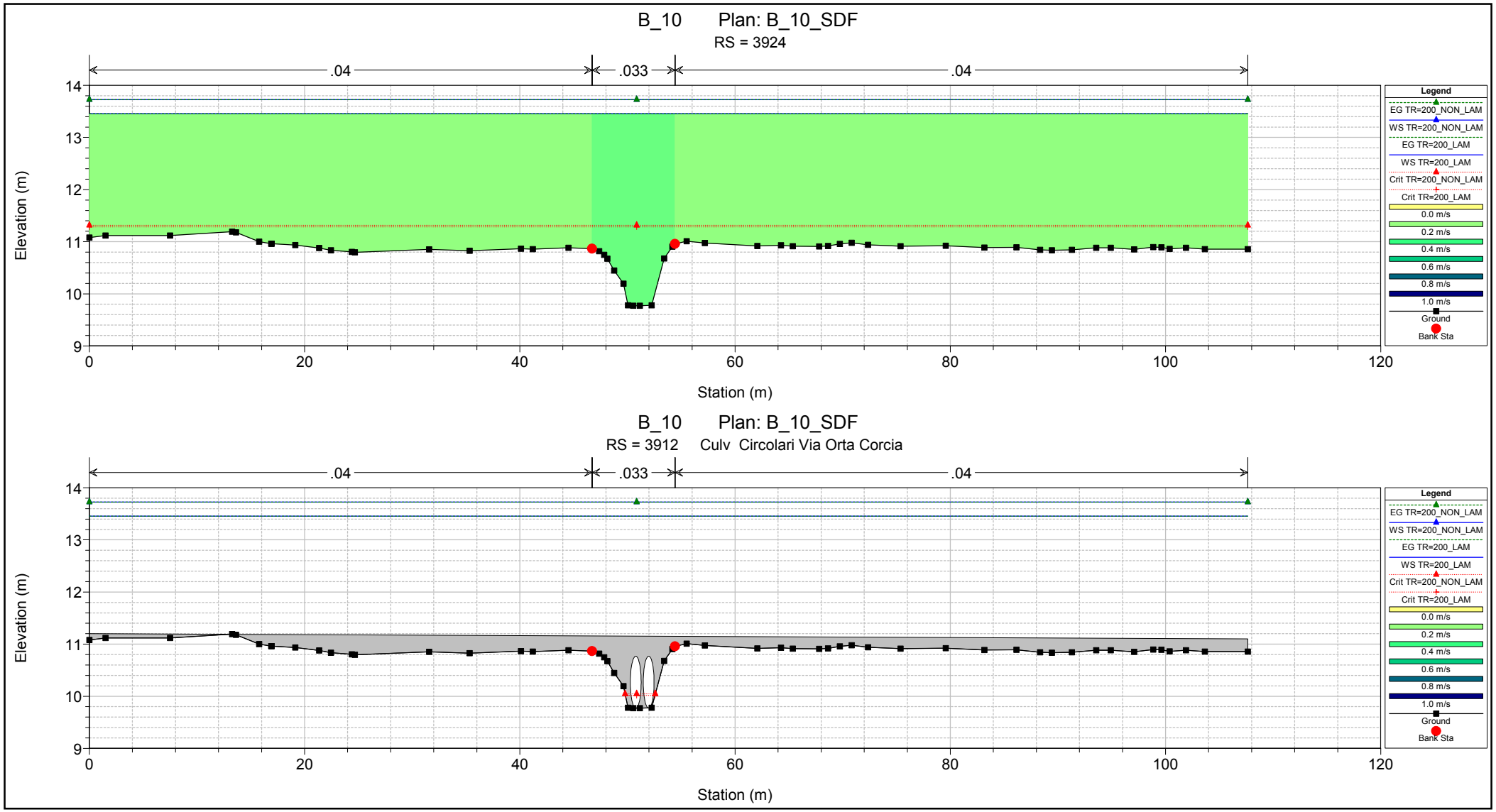
HEC-RAS Plan: SDF River: B_10 Reach: B_10 (Continued)

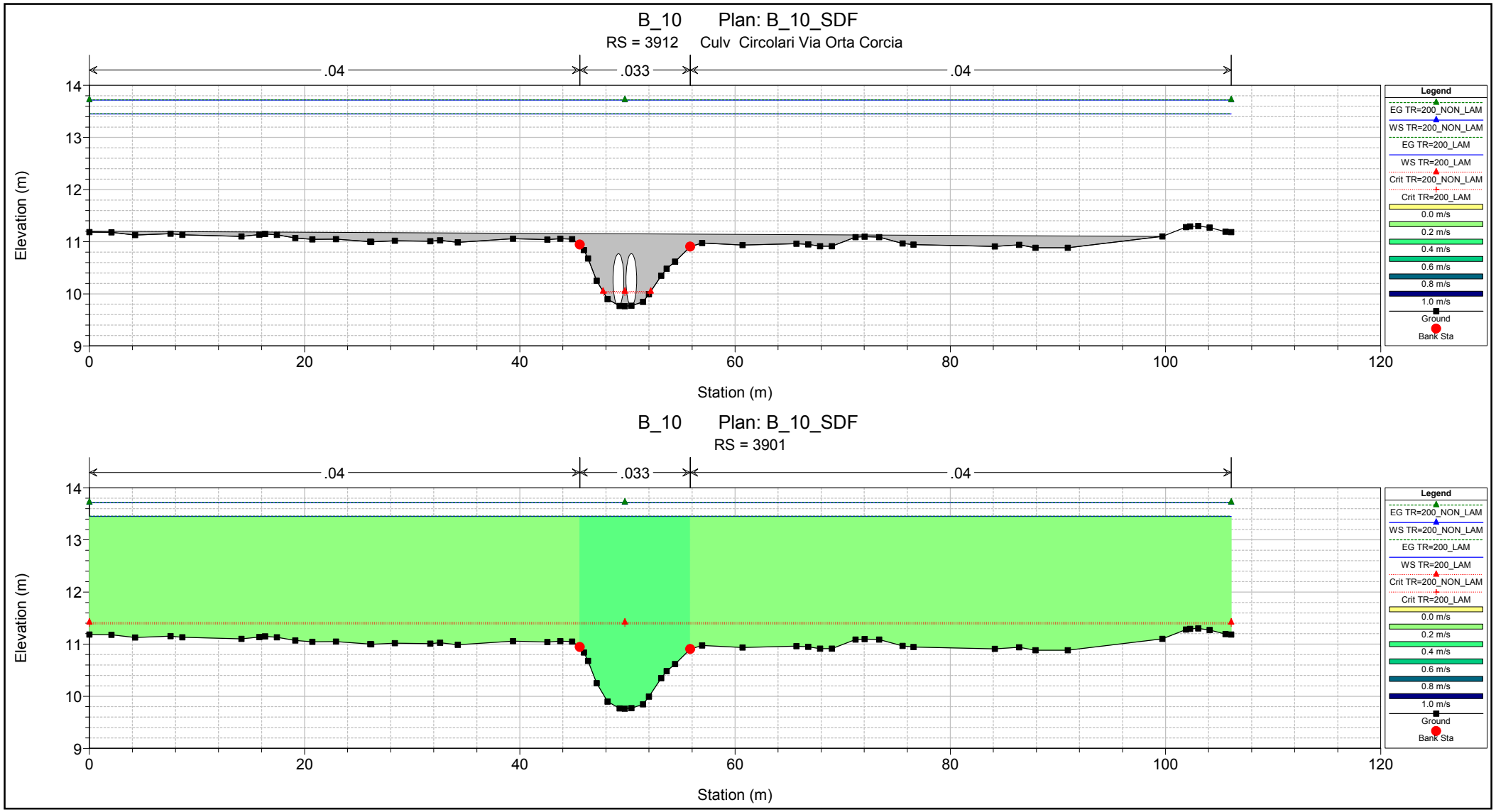
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_10	1906	TR=200_NON_LAM	69.00	9.25	1.68	10.93	10.68	0.25	0.44	10.98	1.39	0.88	0.92	21	0.59
B_10	1880	TR=200_LAM	61.00	9.25	1.62	10.87	10.66	0.21	0.43	10.91	1.42	0.84	0.98	22	0.55
B_10	1880	TR=200_NON_LAM	69.00	9.25	1.66	10.91	10.69	0.22	0.44	10.96	1.48	0.89	1.01	23	0.59
B_10	1863		Culvert												
B_10	1847	TR=200_LAM	61.00	9.23	1.60	10.83	10.67	0.16	0.49	10.89	1.62	0.92	0.98	28	0.47
B_10	1847	TR=200_NON_LAM	69.00	9.23	1.64	10.87	10.70	0.17	0.50	10.94	1.67	0.96	1.01	30	0.49
B_10	1827	TR=200_LAM	61.00	9.23	1.57	10.80	10.67	0.13	0.57	10.87	1.67	1.01	0.81	32	0.40
B_10	1827	TR=200_NON_LAM	69.00	9.23	1.61	10.84	10.70	0.14	0.57	10.91	1.70	1.04	0.84	33	0.43
B_10	1558	TR=200_LAM	61.00	9.18	1.46	10.64	10.34	0.30	0.31	10.66	0.94	0.67	0.92	14	0.54
B_10	1558	TR=200_NON_LAM	69.00	9.18	1.50	10.68	10.36	0.32	0.31	10.70	0.98	0.71	0.95	15	0.57
B_10	1312	TR=200_LAM	61.00	9.13	1.33	10.46	10.30	0.16	0.50	10.50	1.45	0.84	0.81	24	0.45
B_10	1312	TR=200_NON_LAM	69.00	9.13	1.36	10.49	10.32	0.17	0.50	10.54	1.49	0.88	0.85	25	0.49

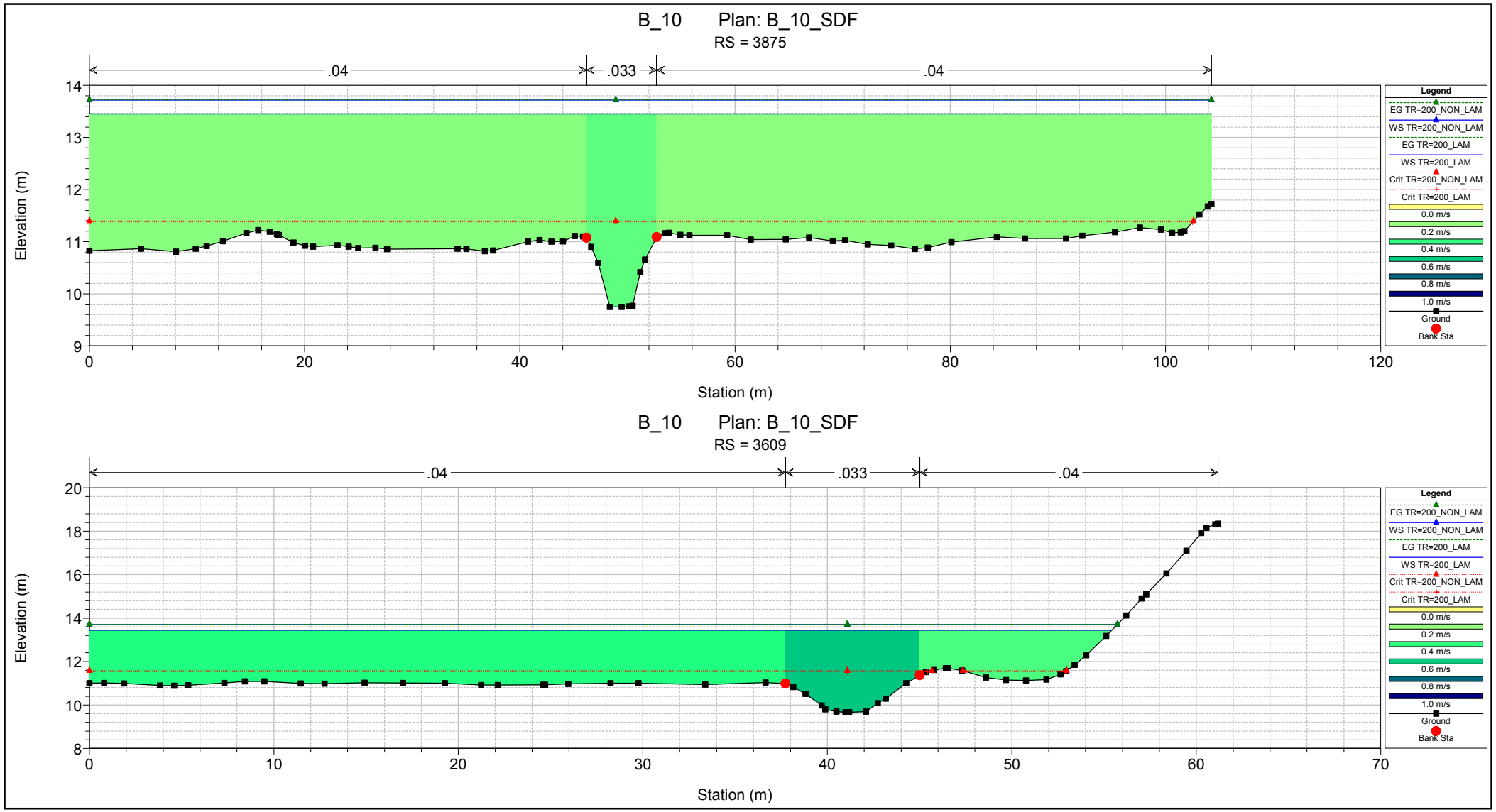

B_10 Plan: B_10_SDF
B_10 B_10
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
Ground
Elevation (m)
Main Channel Distance (m)
20
18
16
14
12
10
8
0
200
400
600
800
1000
1200
1558
1827
1880
2005
2126
2178 Scal
2323
2423
2575
2877
3150
3428
3518 Ponte
3609
3875
3943
4347
4675
4839

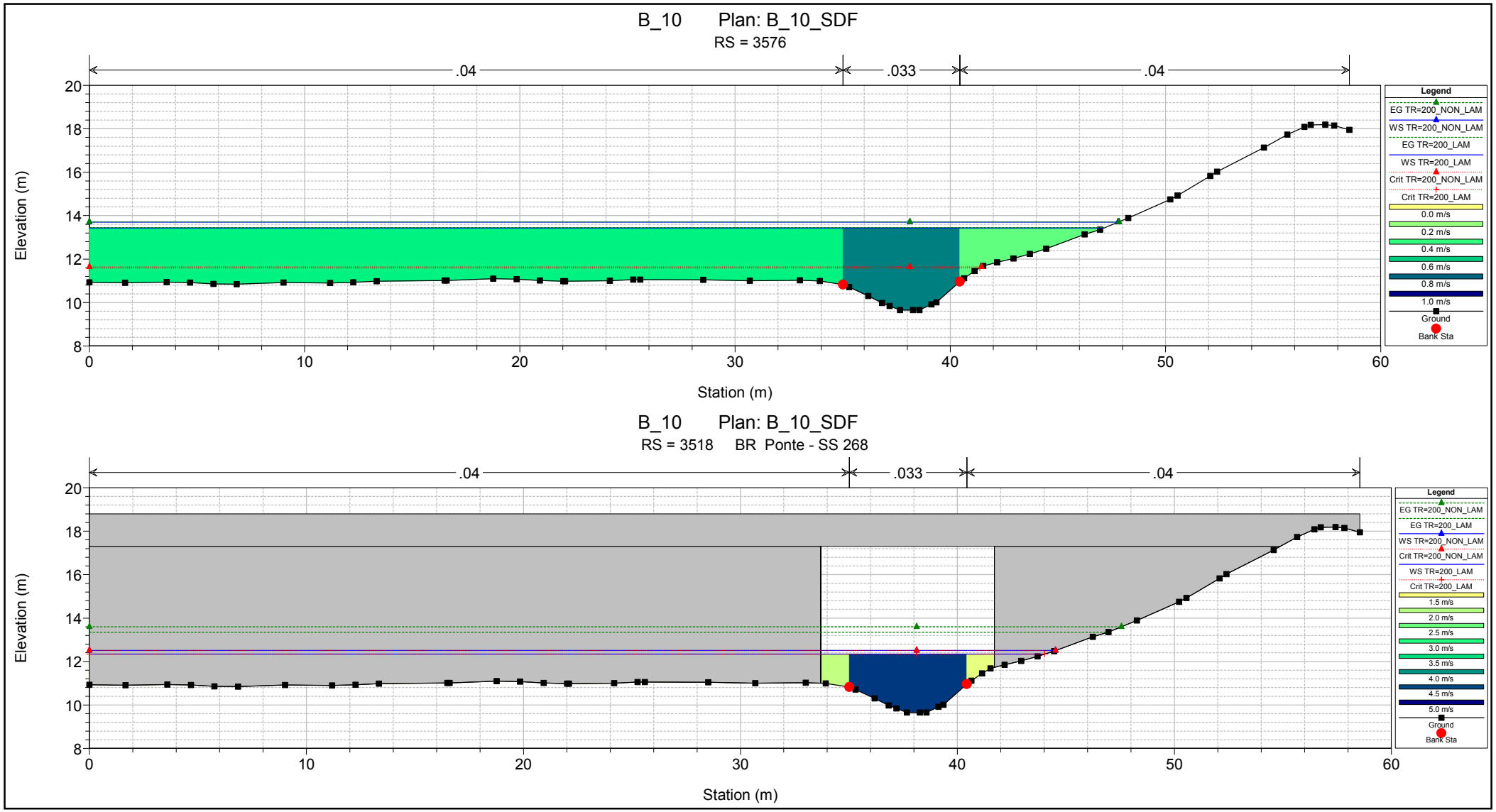

B_10 Plan: B_10_SDF
RS = 4839
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 4675
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

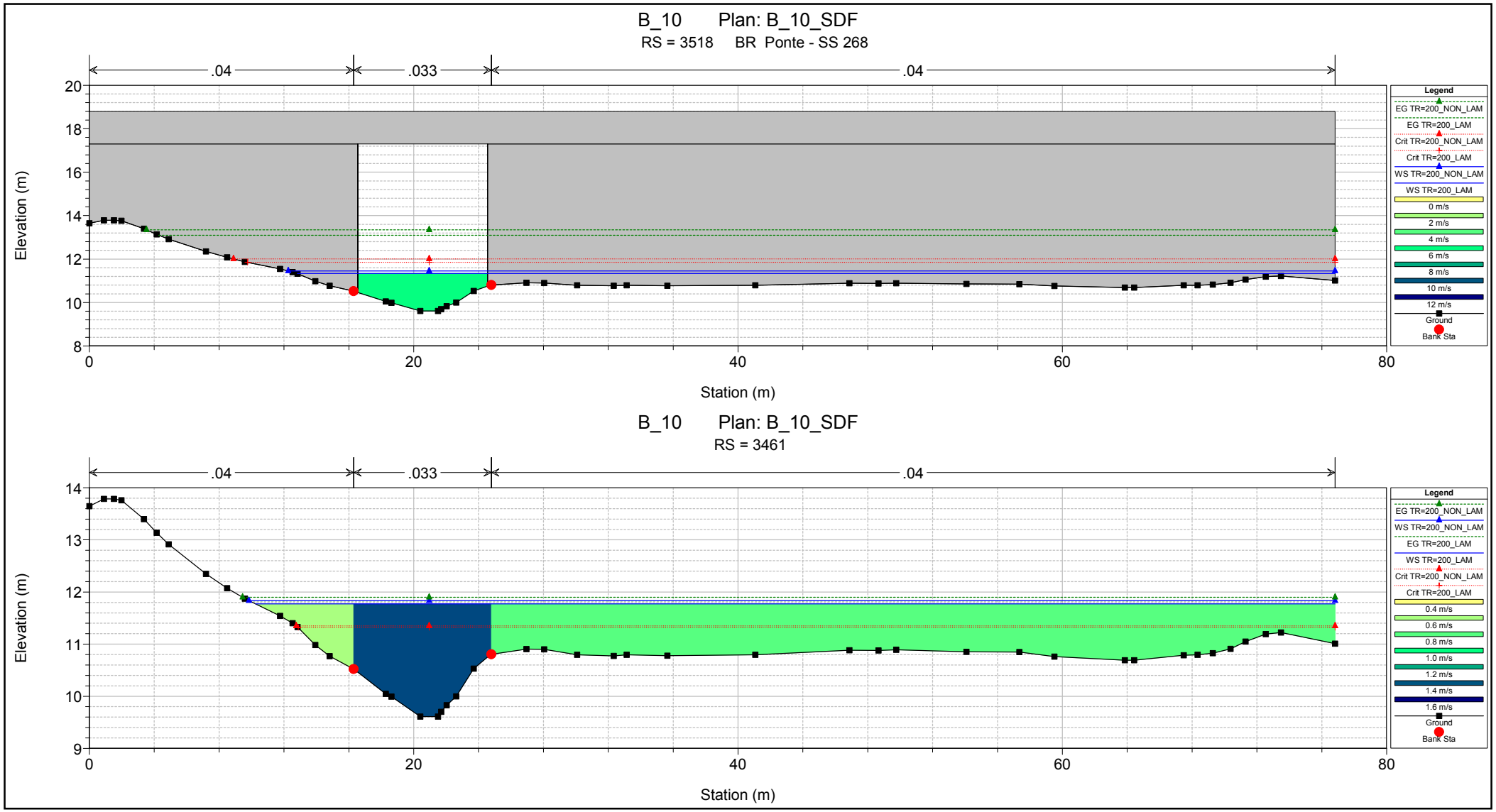

B_10 Plan: B_10_SDF
RS = 4347
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 3943
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

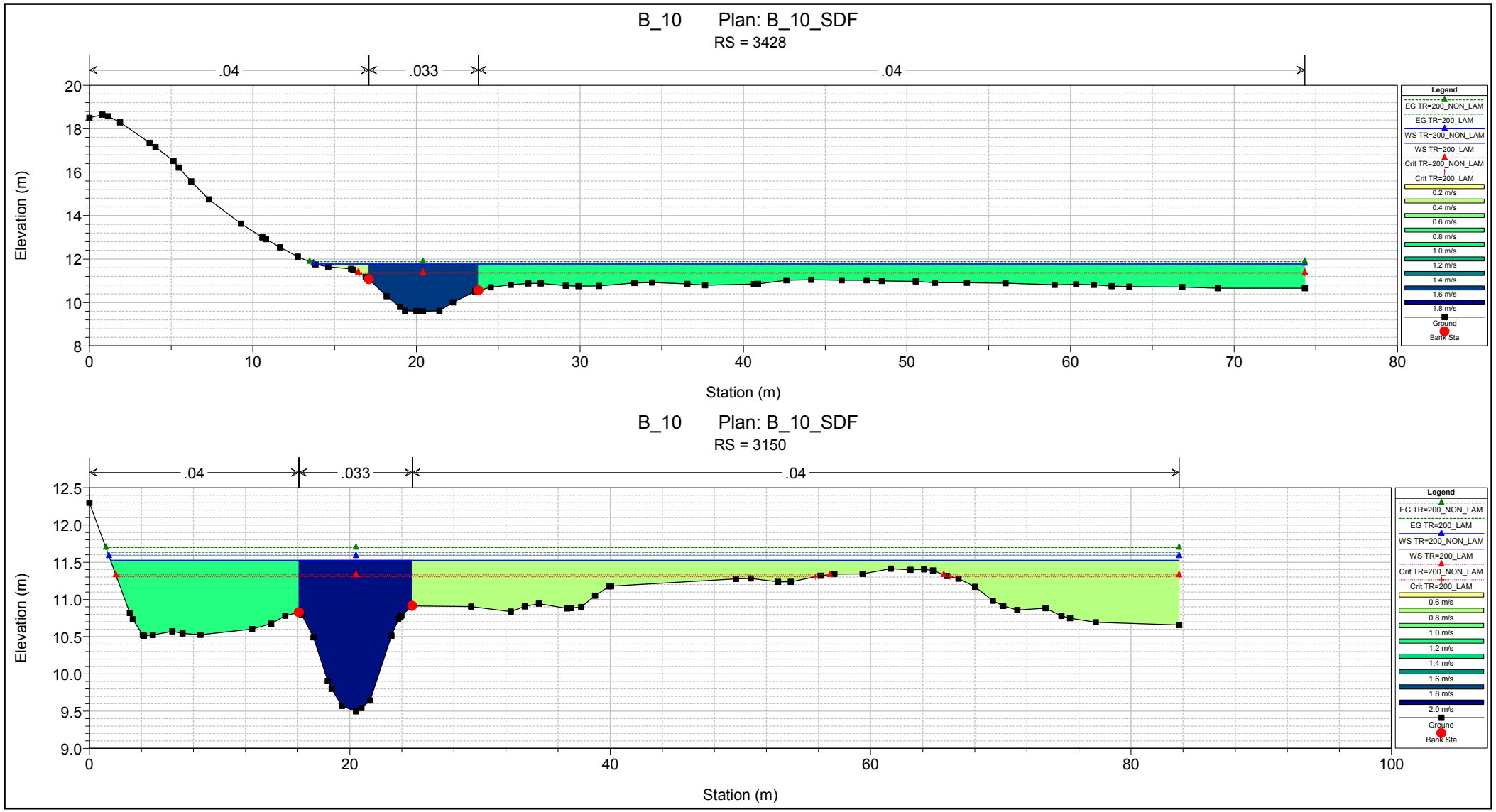

B_10 Plan: B_10_SDF
RS = 3924
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 3912 Culv Circolari Via Orta Corcia
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

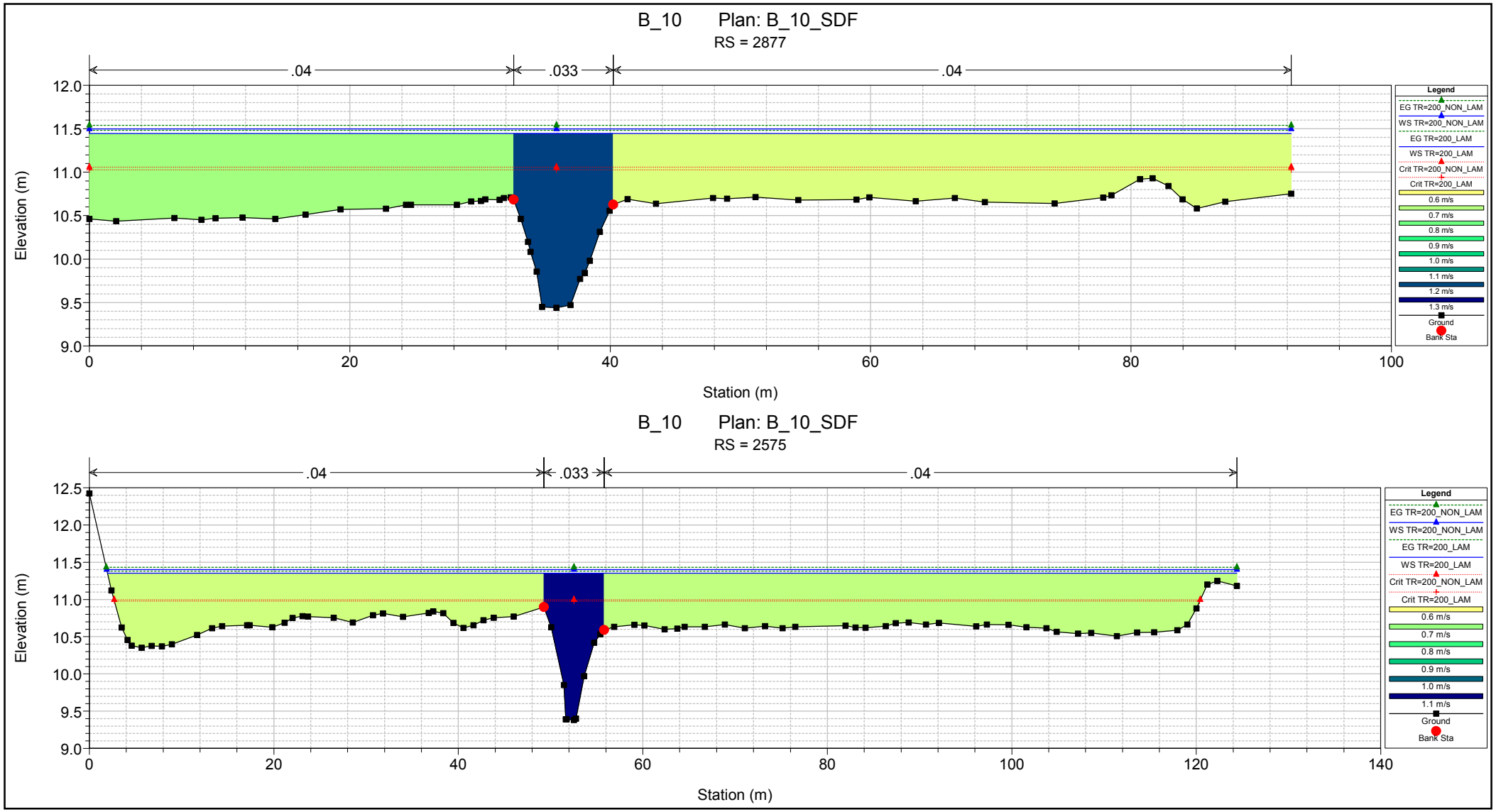

B_10 Plan: B_10_SDF
RS = 3912 Culv Circolari Via Orta Corcia
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 3901
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

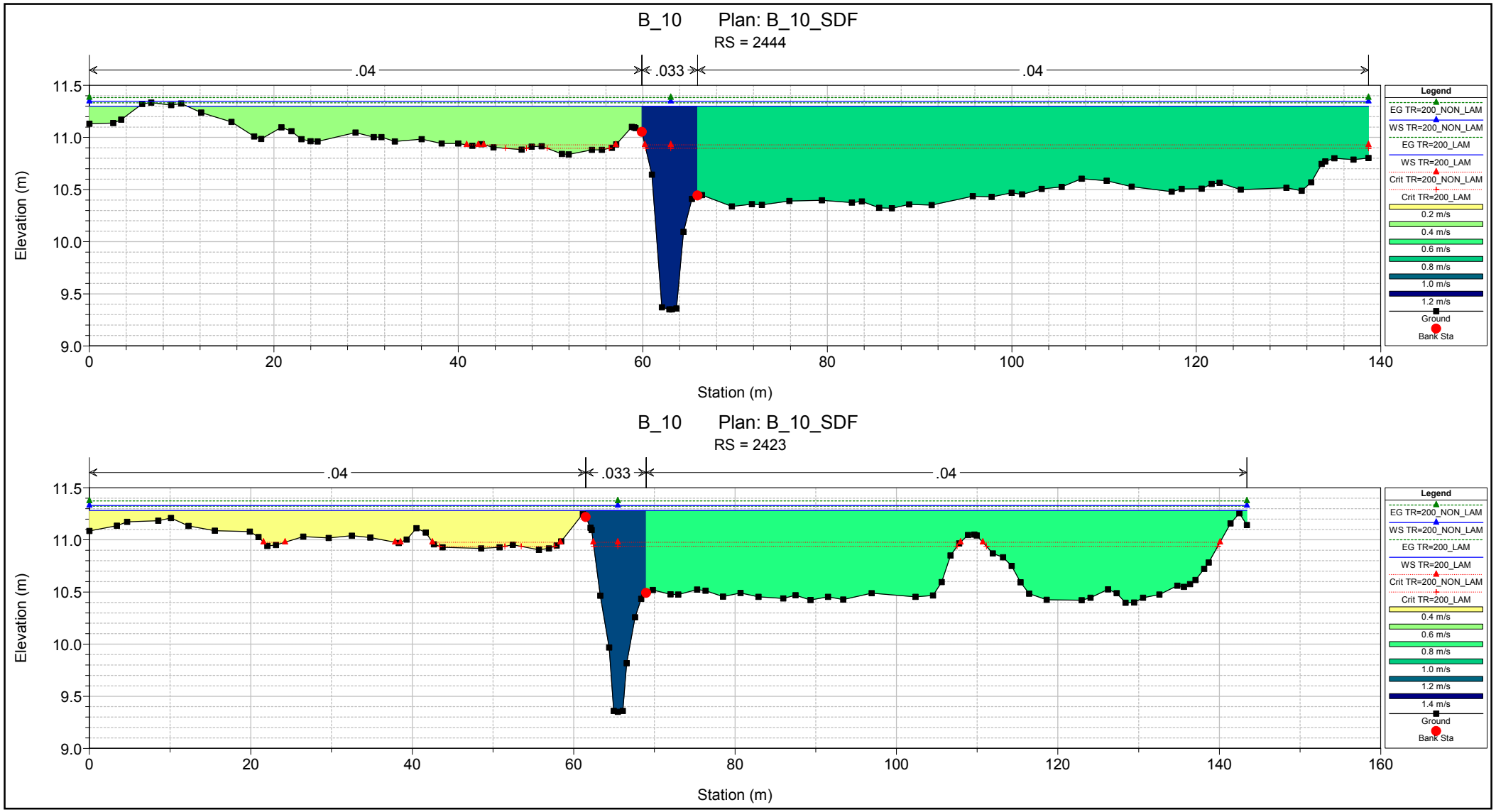

B_10 Plan: B_10_SDF
RS = 3875
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 3609
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

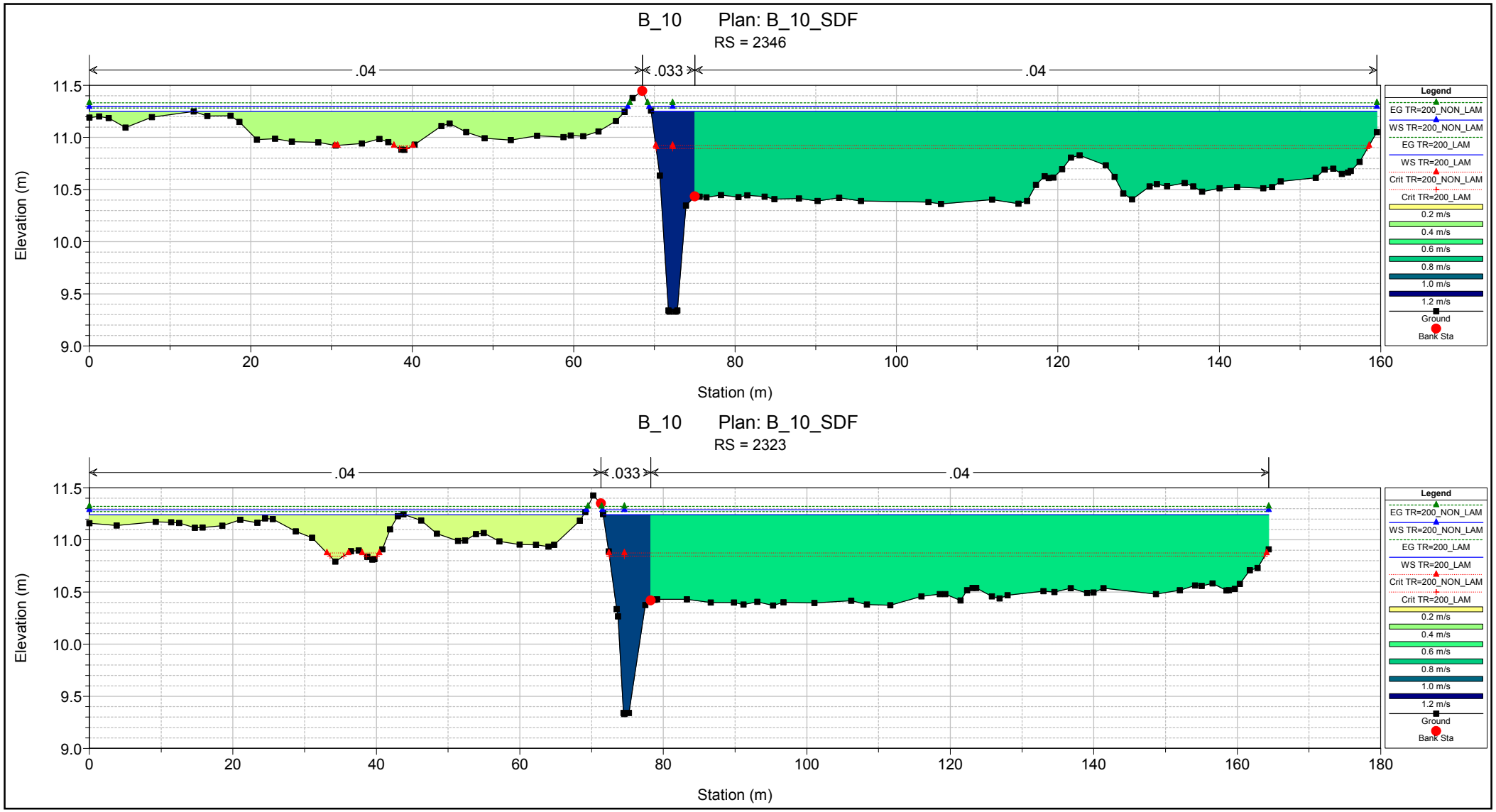

B_10 Plan: B_10_SDF
RS = 3576
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 3518 BR Ponte - SS 268
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
3.5 m/s
4.0 m/s
4.5 m/s
5.0 m/s
Ground
Bank Sta

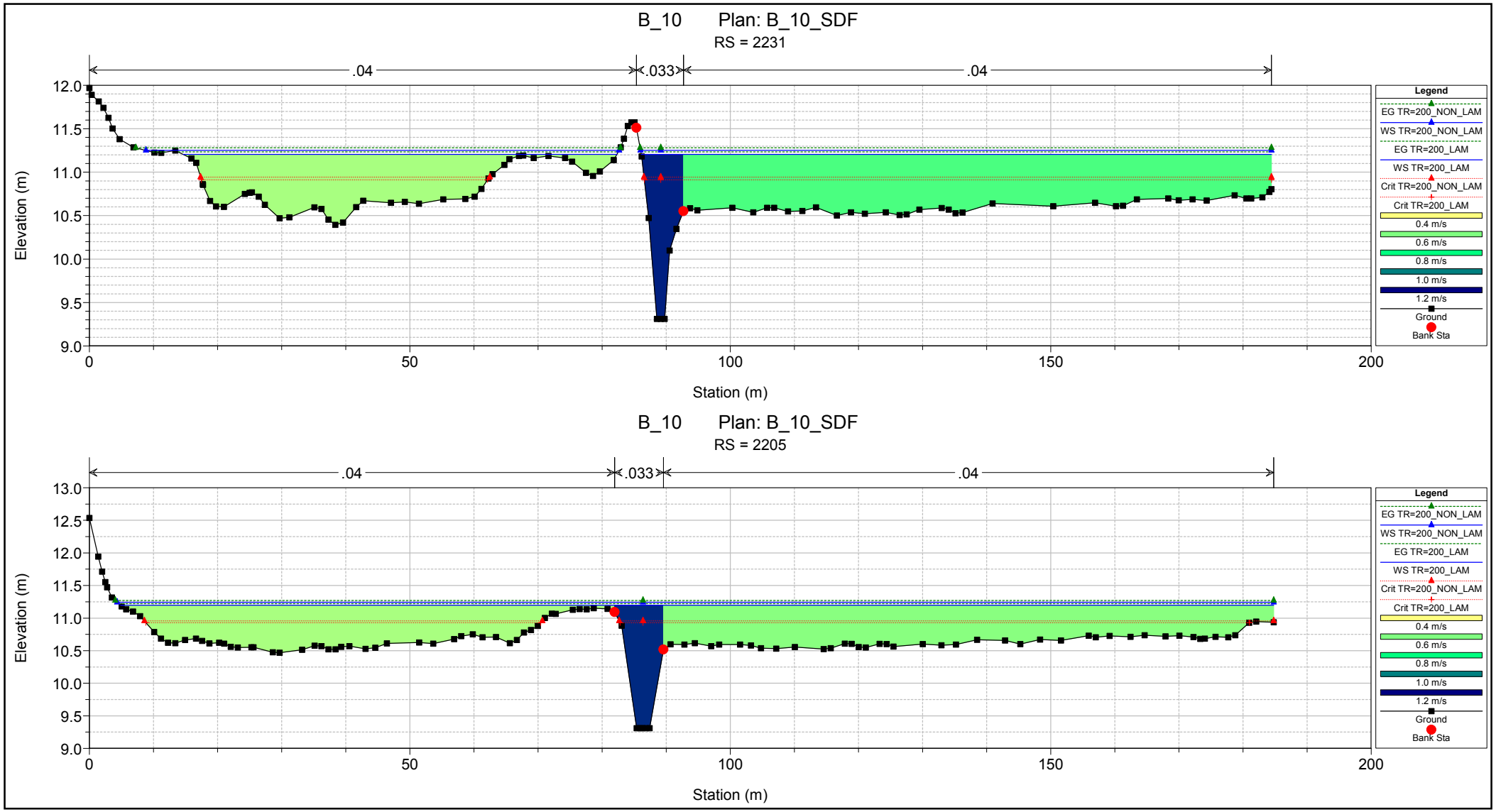

B_10 Plan: B_10_SDF
RS = 3518 BR Ponte - SS 268
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
0 m/s
2 m/s
4 m/s
6 m/s
8 m/s
10 m/s
12 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 3461
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Bank Sta

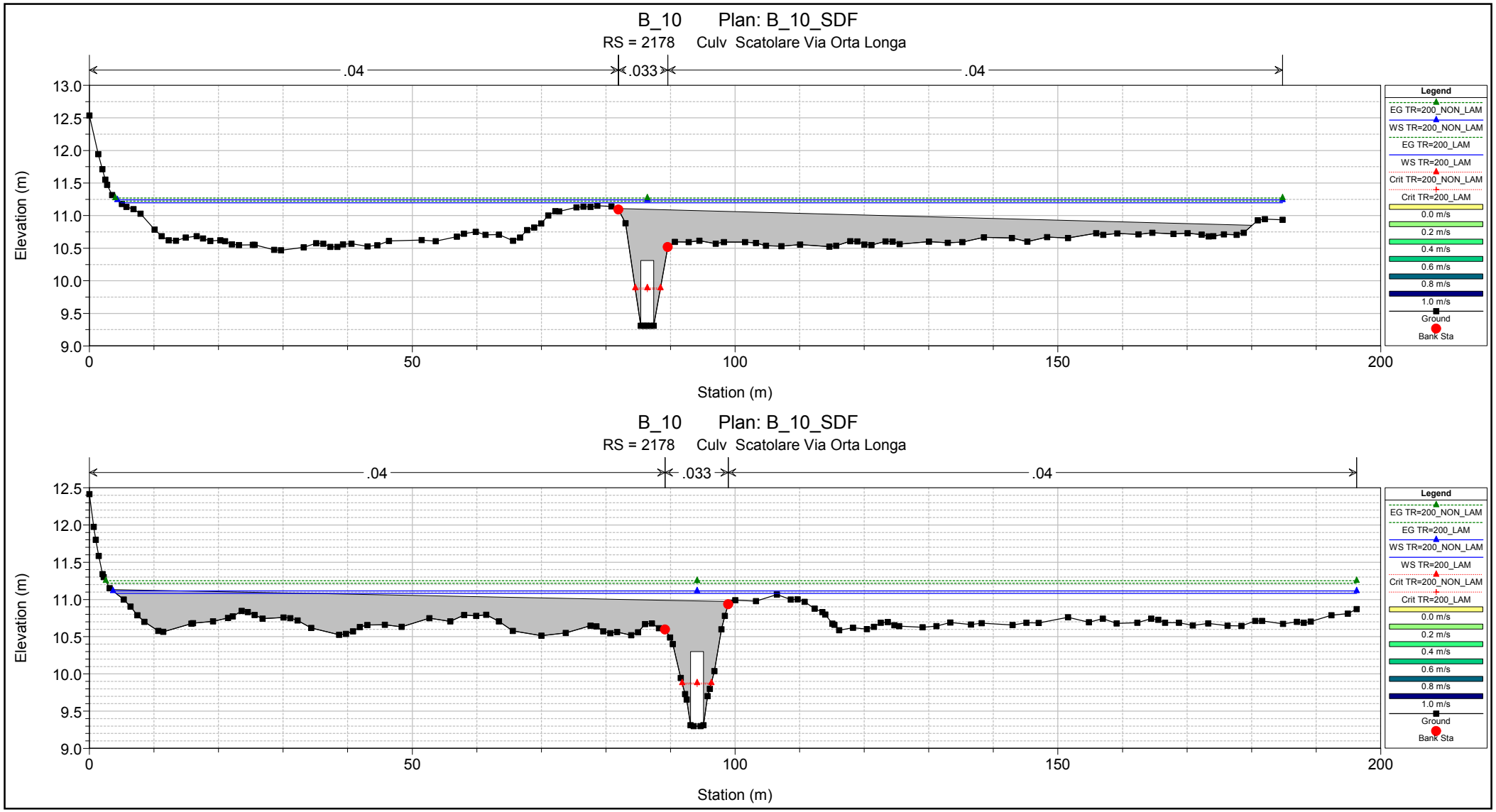

B_10 Plan: B_10_SDF
RS = 3428
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 3150
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
Ground
Bank Sta

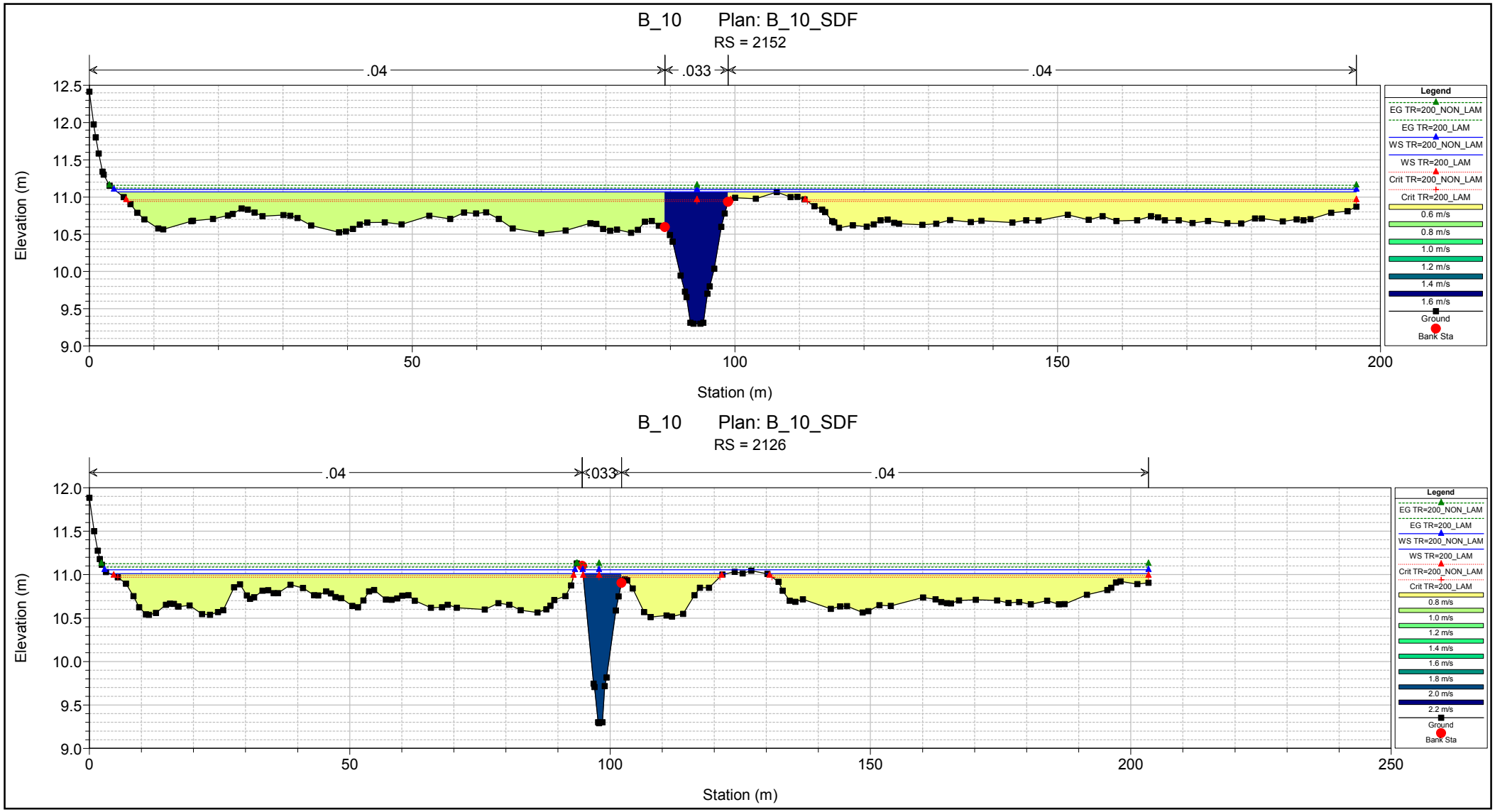

B_10 Plan: B_10_SDF
RS = 2877
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
1.2 m/s
1.3 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 2575
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
Ground
Bank Sta

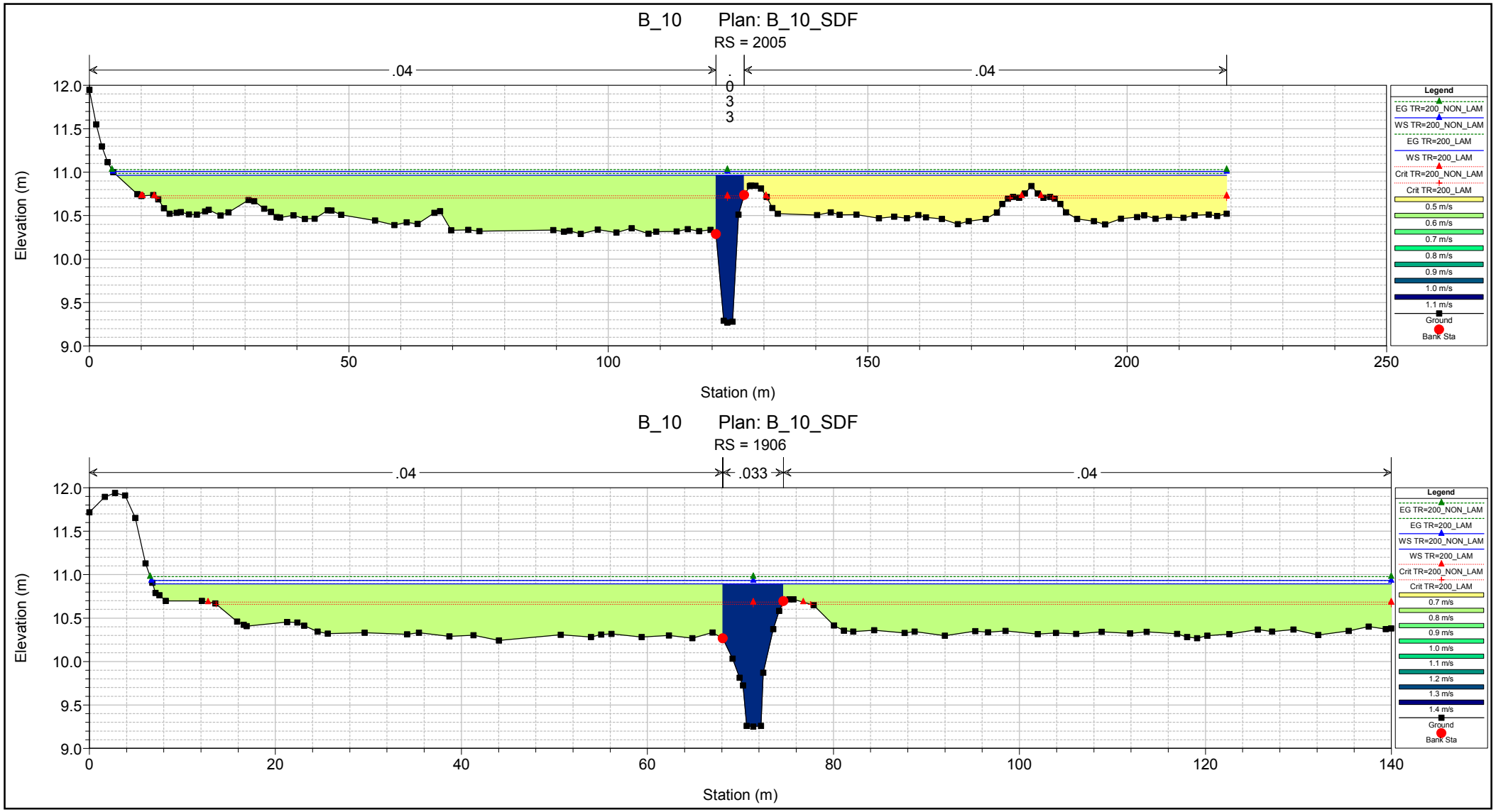

B_10 Plan: B_10_SDF
RS = 2444
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 2423
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
Ground
Bank Sta

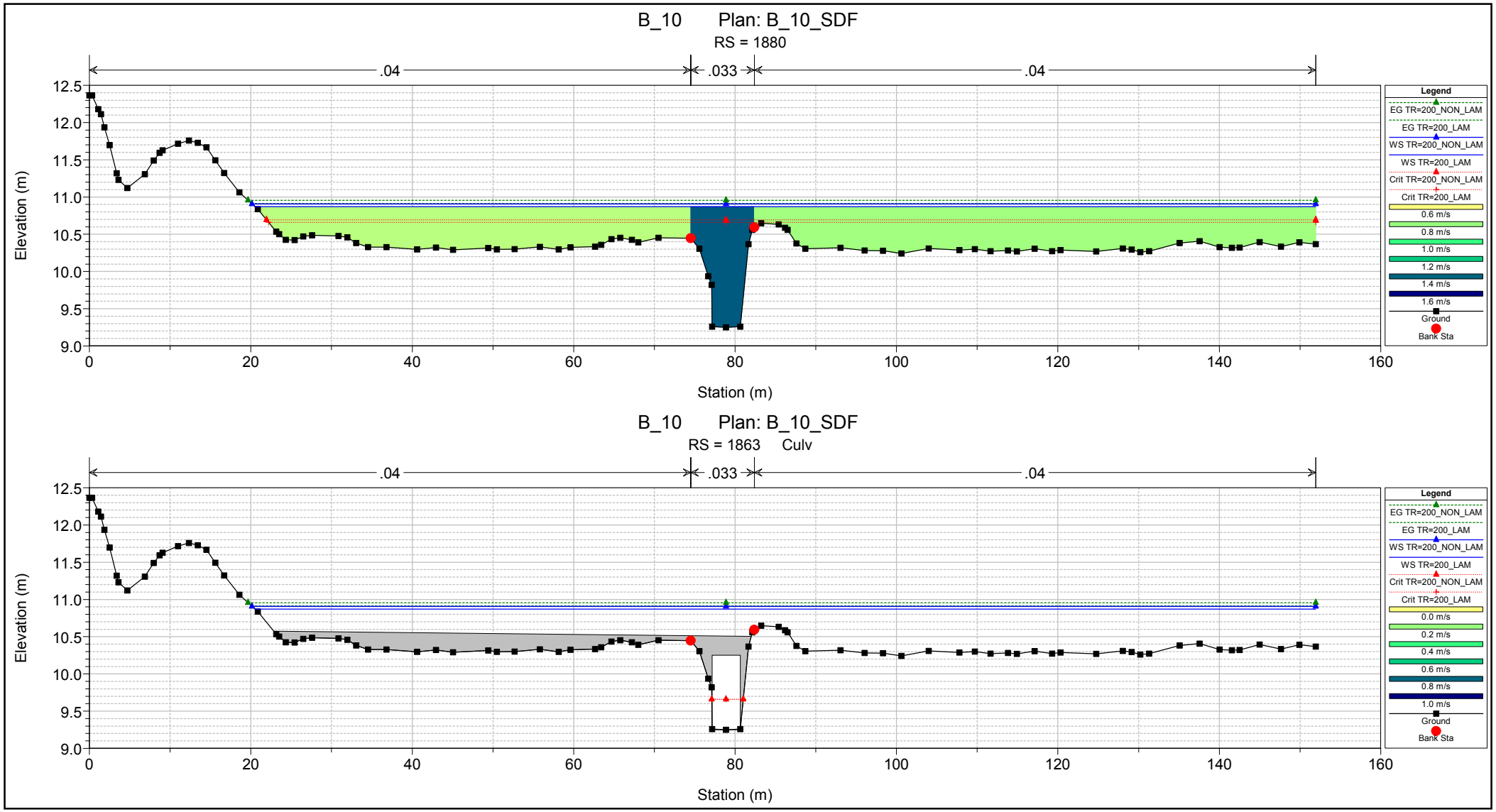

B_10 Plan: B_10_SDF
RS = 2346
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 2323
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta

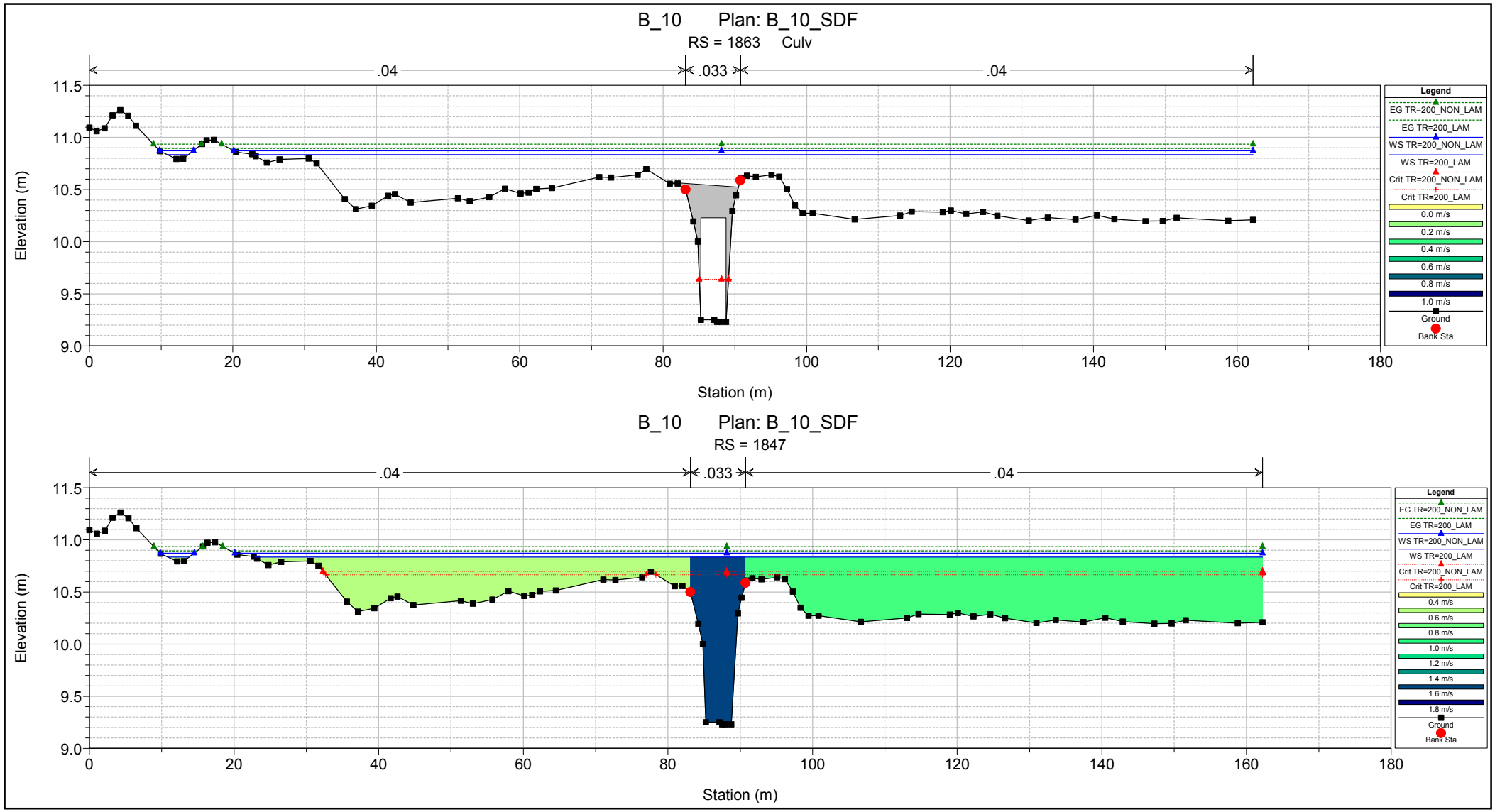

B_10 Plan: B_10_SDF
RS = 2231
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 2205
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta

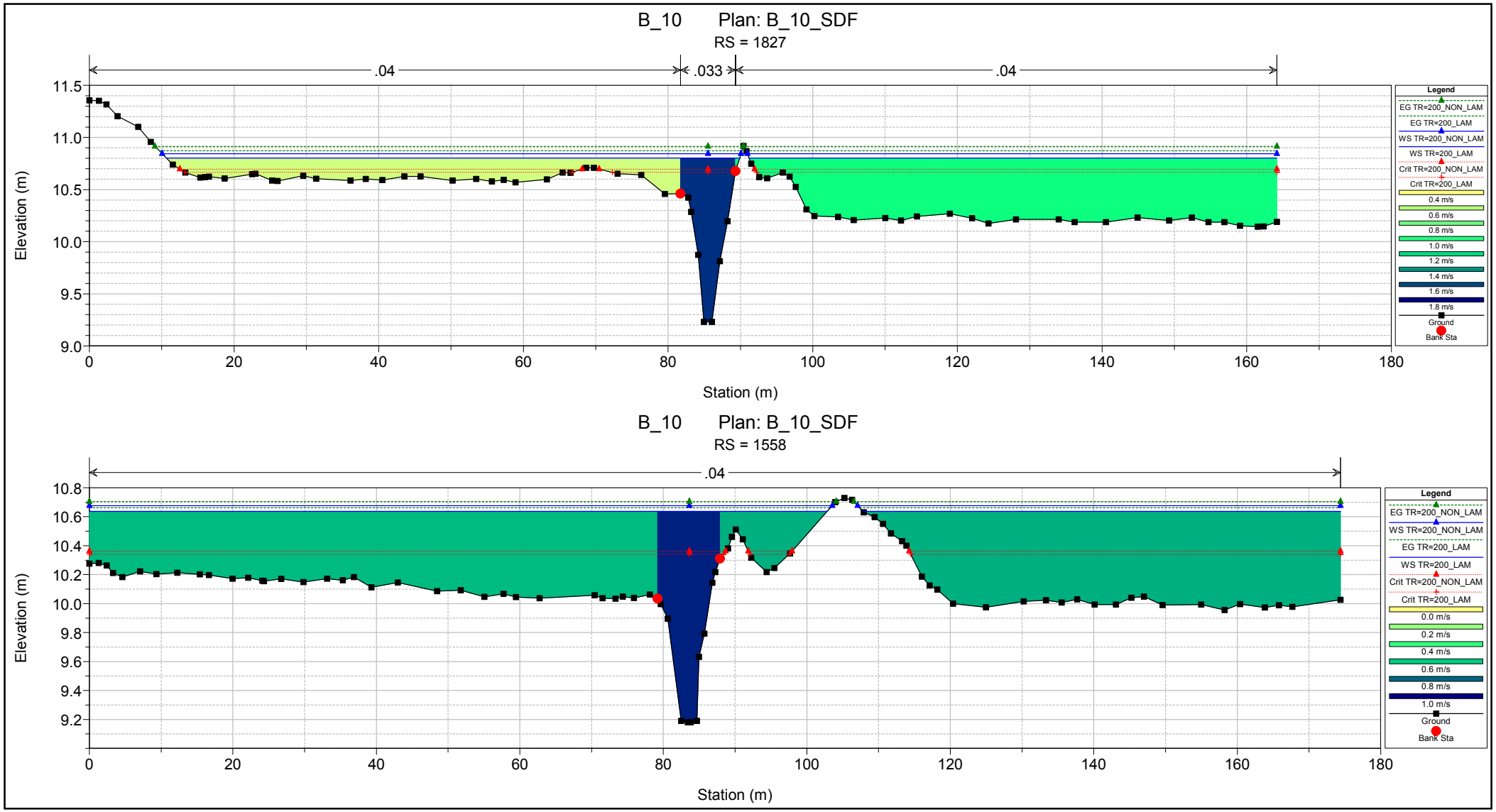

B_10 Plan: B_10_SDF
RS = 2178 Culv Scatolare Via Orta Longa
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 2178 Culv Scatolare Via Orta Longa
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

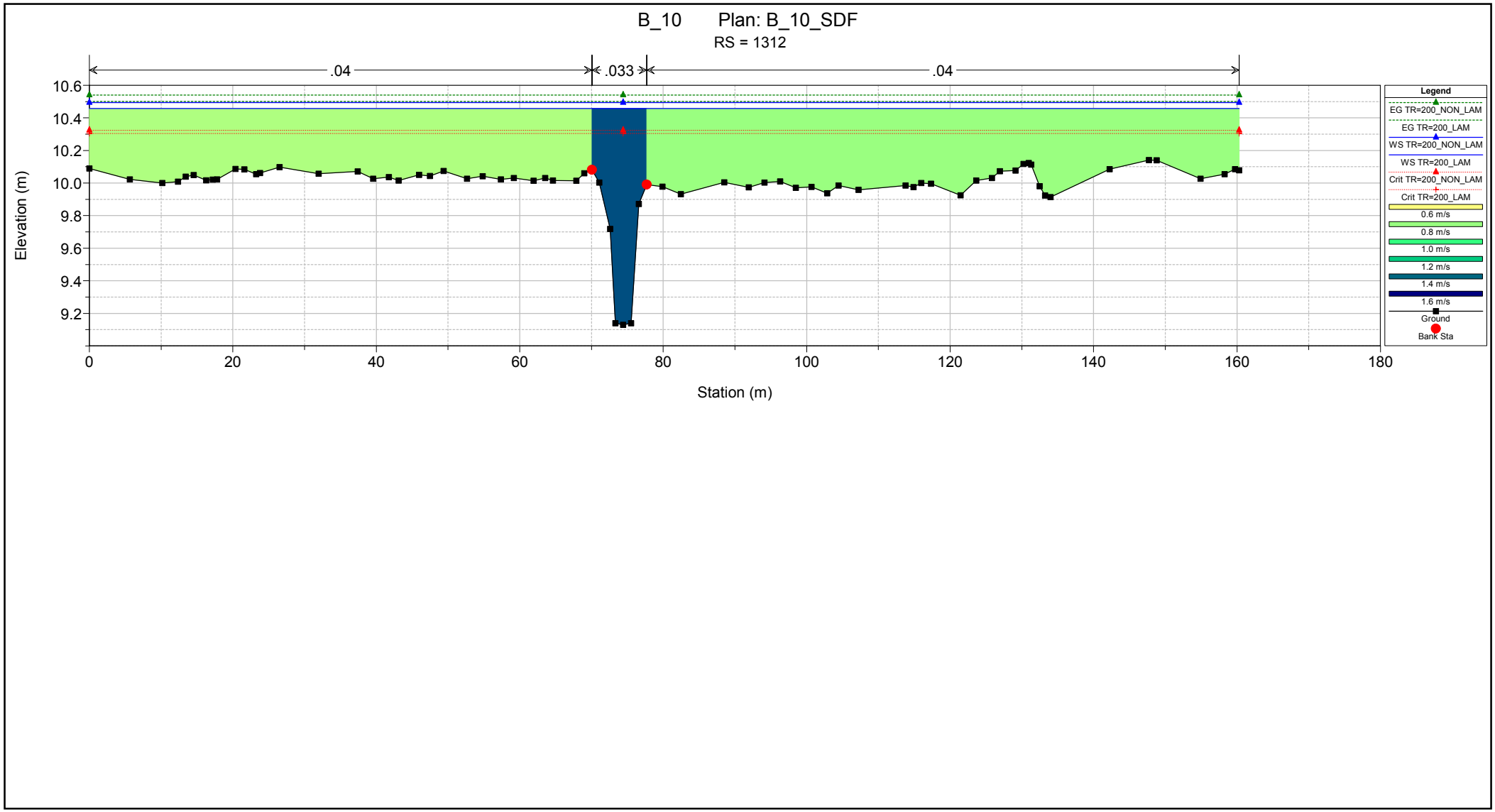

B_10 Plan: B_10_SDF
RS = 2152
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 2126
.04
033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
2.2 m/s
Ground
Bank Sta


B_10 Plan: B_10_SDF
RS = 2005
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.5 m/s
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 1906
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
1.2 m/s
1.3 m/s
1.4 m/s
Ground
Bank Sta


B_10 Plan: B_10_SDF
RS = 1880
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 1863 Culv
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta


B_10 Plan: B_10_SDF
RS = 1863 Culv
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 1847
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Bank Sta


B_10 Plan: B_10_SDF
RS = 1827
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Bank Sta
B_10 Plan: B_10_SDF
RS = 1558
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta


B_10 Plan: B_10_SDF
RS = 1312
.04
.033
.04
Elevation (m)
10.6
10.4
10.2
10.0
9.8
9.6
9.4
9.2
0
20
40
60
80
100
120
140
160
180
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Bank Sta

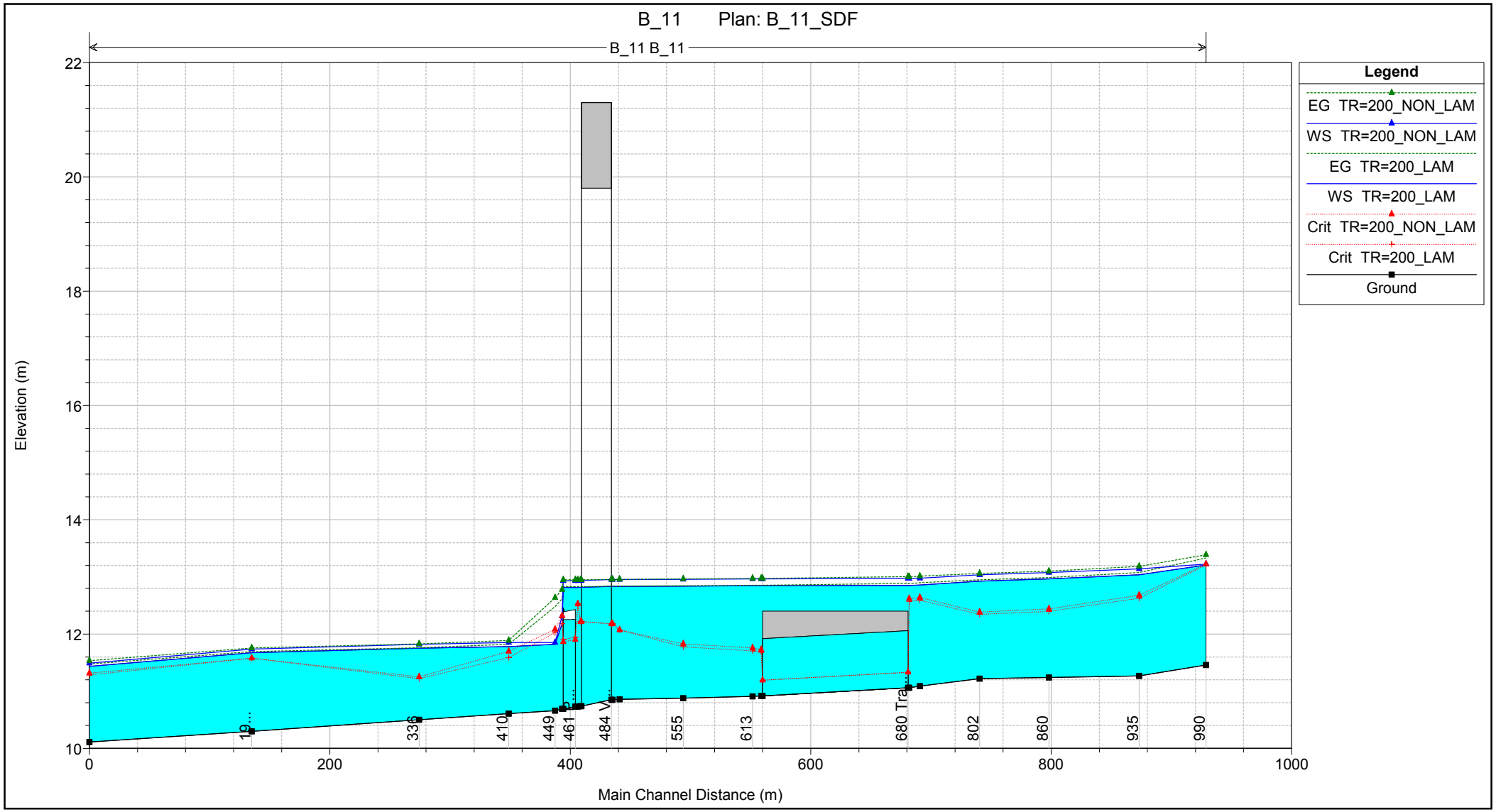
3.1.3. Corso d’acqua B.11
(Configurazione di stato di fatto - Evento TR 200 anni)

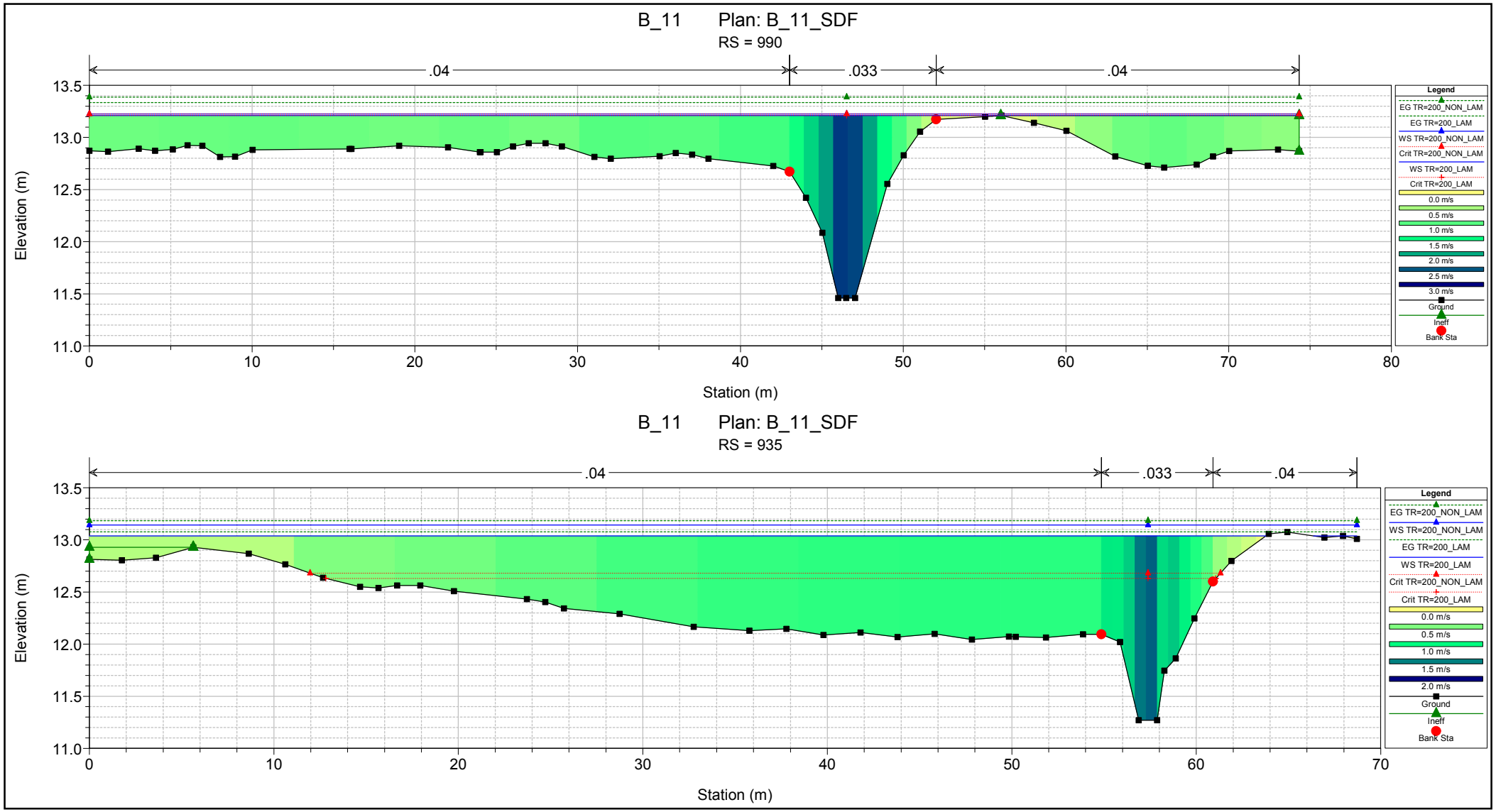
HEC-RAS Plan: SDF River: B_11 Reach: B_11

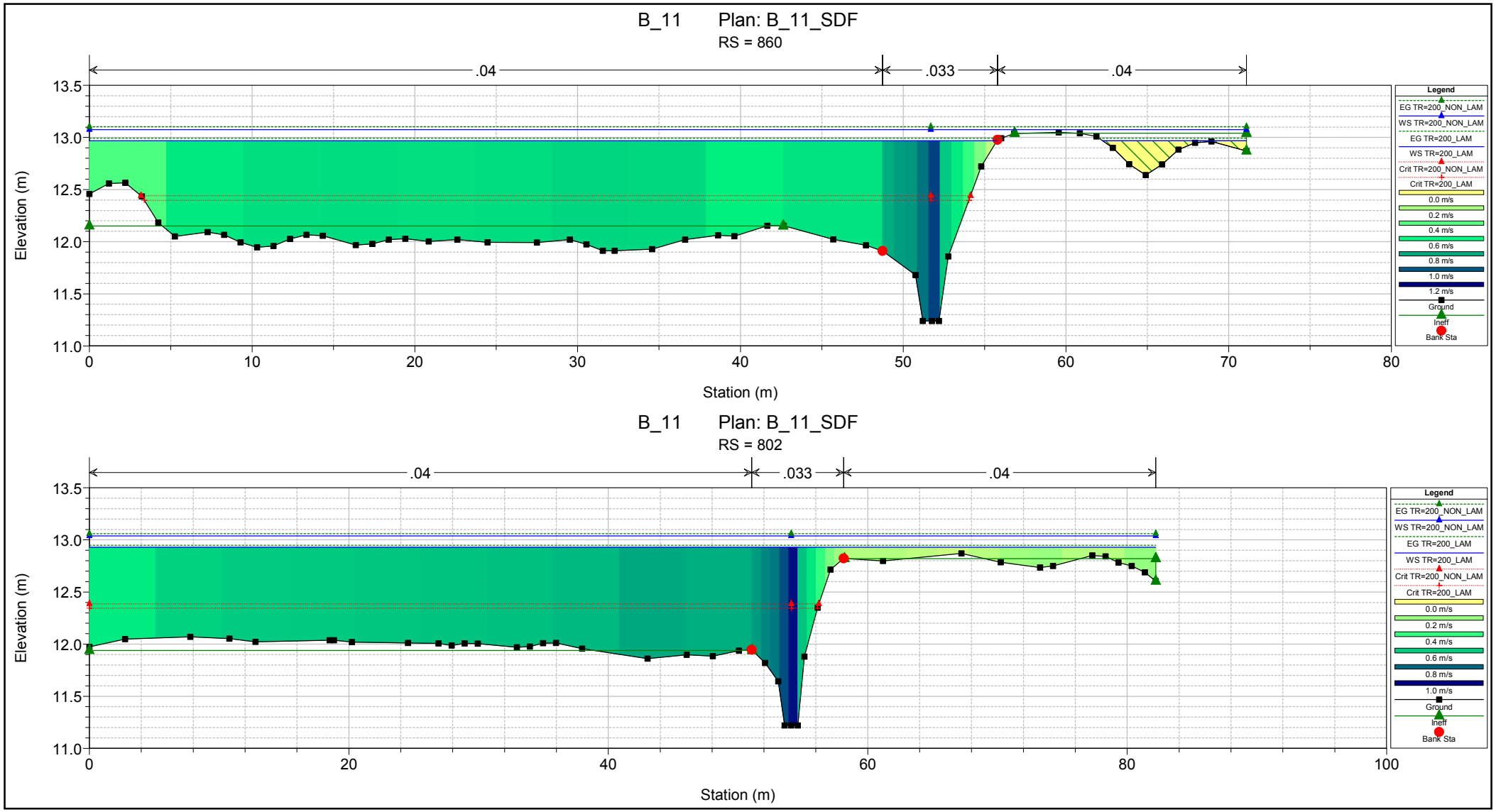
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_11	990	TR=200_LAM	35.00	11.46	1.75	13.21	13.21	0.00	0.69	13.33	2.05	1.21	0.84	47	0.39
B_11	990	TR=200_NON_LAM	42.00	11.46	1.76	13.22	13.22	0.00	0.79	13.39	2.36	1.40	0.86	63	0.40
B_11	935	TR=200_LAM	35.00	11.27	1.77	13.04	12.63	0.41	0.36	13.08	1.23	0.80	1.07	16	0.66
B_11	935	TR=200_NON_LAM	42.00	11.27	1.87	13.14	12.68	0.46	0.35	13.18	1.25	0.83	1.17	16	0.74
B_11	860	TR=200_LAM	35.00	11.24	1.73	12.97	12.40	0.57	0.26	12.99	0.81	0.68	0.92	7	0.92
B_11	860	TR=200_NON_LAM	42.00	11.24	1.84	13.08	12.44	0.64	0.26	13.10	0.86	0.70	1.01	8	0.84
B_11	802	TR=200_LAM	35.00	11.22	1.71	12.93	12.34	0.59	0.24	12.95	0.73	0.61	0.88	6	0.70
B_11	802	TR=200_NON_LAM	42.00	11.22	1.82	13.04	12.39	0.65	0.24	13.06	0.77	0.63	0.98	6	0.81
B_11	752	TR=200_LAM	35.00	11.09	1.77	12.86	12.59	0.27	0.37	12.90	1.24	0.75	1.09	16	0.57
B_11	752	TR=200_NON_LAM	42.00	11.09	1.89	12.98	12.64	0.34	0.34	13.02	1.19	0.75	1.21	14	0.69
B_11	743	TR=200_LAM	35.00	11.06	1.79	12.85	12.57	0.28	0.31	12.88	1.11	0.70	1.08	13	0.60
B_11	743	TR=200_NON_LAM	42.00	11.06	1.91	12.97	12.62	0.35	0.29	13.00	1.08	0.69	1.19	12	0.72
B_11	680		Culvert												
B_11	620	TR=200_LAM	35.00	10.92	1.93	12.85	11.68	1.17	0.12	12.86	0.53	0.36	1.59	3	1.06
B_11	620	TR=200_NON_LAM	42.00	10.92	2.05	12.97	11.73	1.24	0.13	12.98	0.56	0.39	1.69	3	1.18
B_11	613	TR=200_LAM	35.00	10.91	1.94	12.85	11.71	1.14	0.13	12.85	0.52	0.37	1.47	3	1.02
B_11	613	TR=200_NON_LAM	42.00	10.91	2.06	12.97	11.76	1.21	0.14	12.97	0.56	0.40	1.58	3	1.14
B_11	555	TR=200_LAM	35.00	10.88	1.96	12.84	11.78	1.06	0.10	12.85	0.39	0.29	1.43	1	1.20
B_11	555	TR=200_NON_LAM	42.00	10.88	2.08	12.96	11.83	1.13	0.10	12.97	0.42	0.32	1.54	2	1.32
B_11	503	TR=200_LAM	35.00	10.86	1.98	12.84	12.07	0.77	0.10	12.84	0.33	0.28	1.08	1	1.10
B_11	503	TR=200_NON_LAM	42.00	10.86	2.09	12.95	12.07	0.88	0.10	12.96	0.36	0.30	1.19	1	1.21
B_11	497	TR=200_LAM	35.00	10.85	1.98	12.83	12.18	0.65	0.10	12.84	0.34	0.28	1.13	1	1.12
B_11	497	TR=200_NON_LAM	42.00	10.85	2.10	12.95	12.18	0.77	0.10	12.96	0.37	0.31	1.24	1	1.23
B_11	484		Bridge												
B_11	470	TR=200_LAM	35.00	10.74	2.08	12.82	12.22	0.60	0.16	12.83	0.53	0.47	1.00	3	1.12

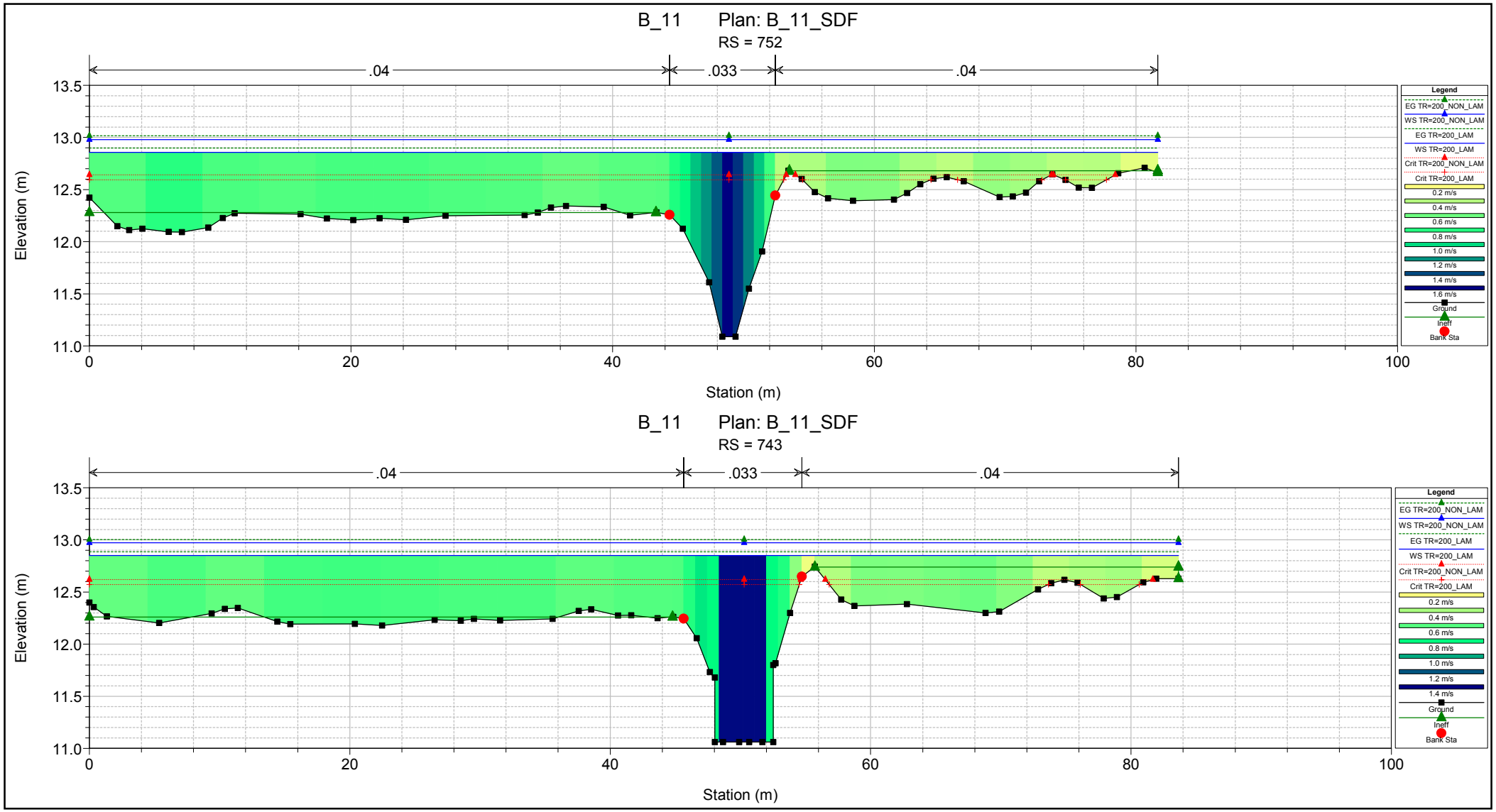
HEC-RAS Plan: SDF River: B_11 Reach: B_11 (Continued)

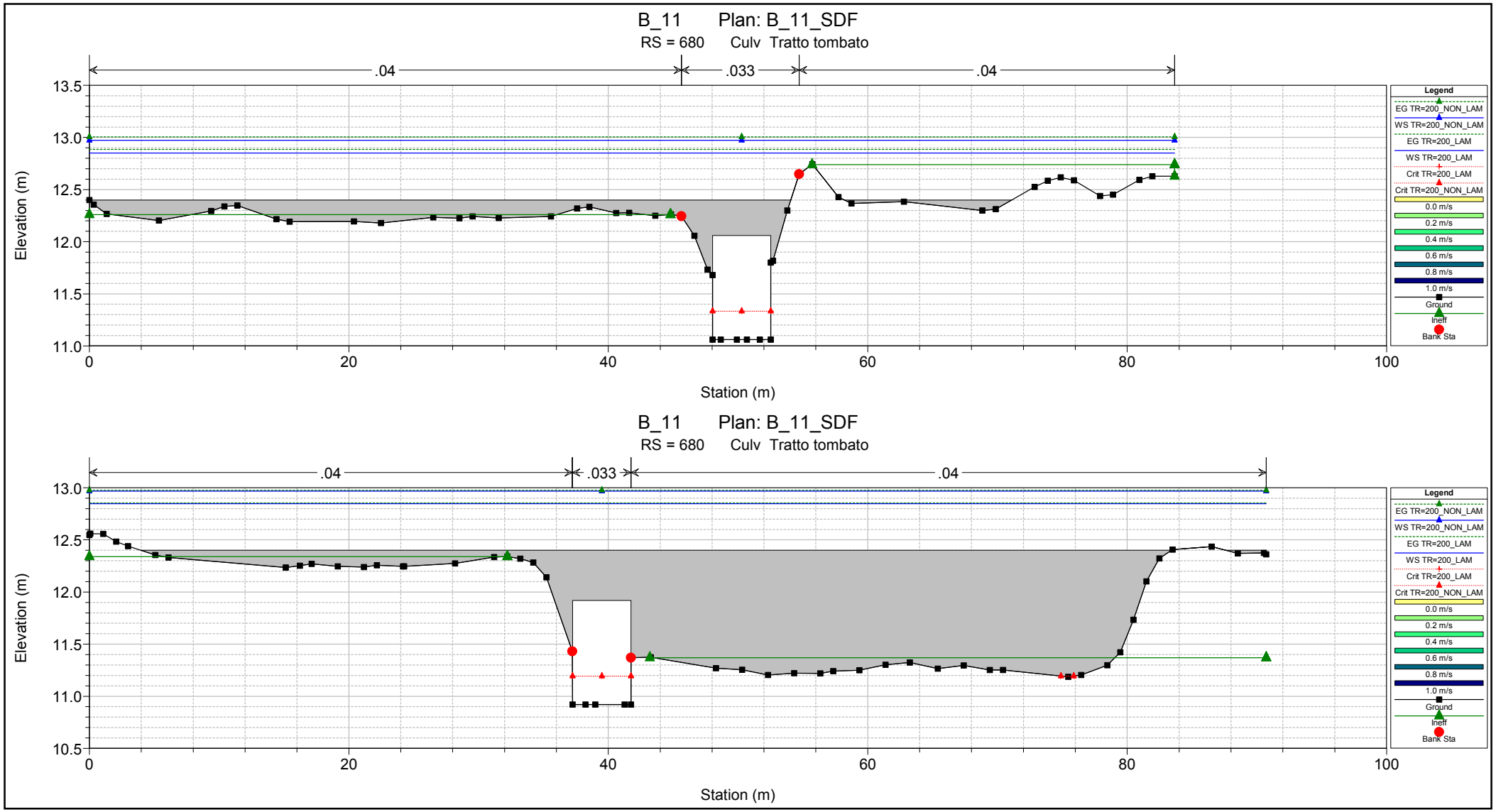
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_11	470	TR=200_NON_LAM	42.00	10.74	2.20	12.94	12.22	0.72	0.17	12.95	0.55	0.51	1.04	3	1.21
B_11	468	TR=200_LAM	35.00	10.73	2.09	12.82	12.53	0.29	0.18	12.83	0.65	0.53	1.07	4	1.02
B_11	468	TR=200_NON_LAM	42.00	10.73	2.20	12.93	12.53	0.40	0.18	12.95	0.67	0.57	1.09	5	1.13
B_11	461		Culvert												
B_11	455	TR=200_LAM	35.00	10.69	1.49	12.18	12.18	0.00	0.94	12.62	2.95	2.80	0.84	98	0.81
B_11	455	TR=200_NON_LAM	42.00	10.69	1.63	12.32	12.32	0.00	0.93	12.78	3.07	2.87	0.93	103	0.85
B_11	449	TR=200_LAM	35.00	10.66	1.16	11.82	12.02	-0.20	1.65	12.48	4.14	3.07	0.61	216	0.38
B_11	449	TR=200_NON_LAM	42.00	10.66	1.19	11.85	12.08	-0.23	1.78	12.64	4.54	3.39	0.63	256	0.41
B_11	410	TR=200_LAM	35.00	10.61	1.17	11.78	11.59	0.19	0.52	11.82	1.28	0.78	0.59	21	0.34
B_11	410	TR=200_NON_LAM	42.00	10.61	1.24	11.85	11.70	0.15	0.48	11.89	1.23	0.78	0.66	19	0.41
B_11	336	TR=200_LAM	35.00	10.50	1.25	11.75	11.22	0.53	0.16	11.76	0.49	0.33	0.95	3	0.66
B_11	336	TR=200_NON_LAM	42.00	10.50	1.32	11.82	11.25	0.57	0.16	11.83	0.52	0.35	1.02	3	0.69
B_11	197	TR=200_LAM	35.00	10.30	1.37	11.67	11.58	0.09	0.27	11.69	0.76	0.58	0.72	7	0.62
B_11	197	TR=200_NON_LAM	42.00	10.30	1.44	11.74	11.58	0.16	0.28	11.76	0.81	0.63	0.76	8	0.68
B_11	62	TR=200_LAM	35.00	10.11	1.33	11.44	11.28	0.16	0.47	11.48	1.36	0.83	0.74	22	0.45
B_11	62	TR=200_NON_LAM	42.00	10.11	1.38	11.49	11.32	0.17	0.48	11.53	1.40	0.89	0.78	23	0.50

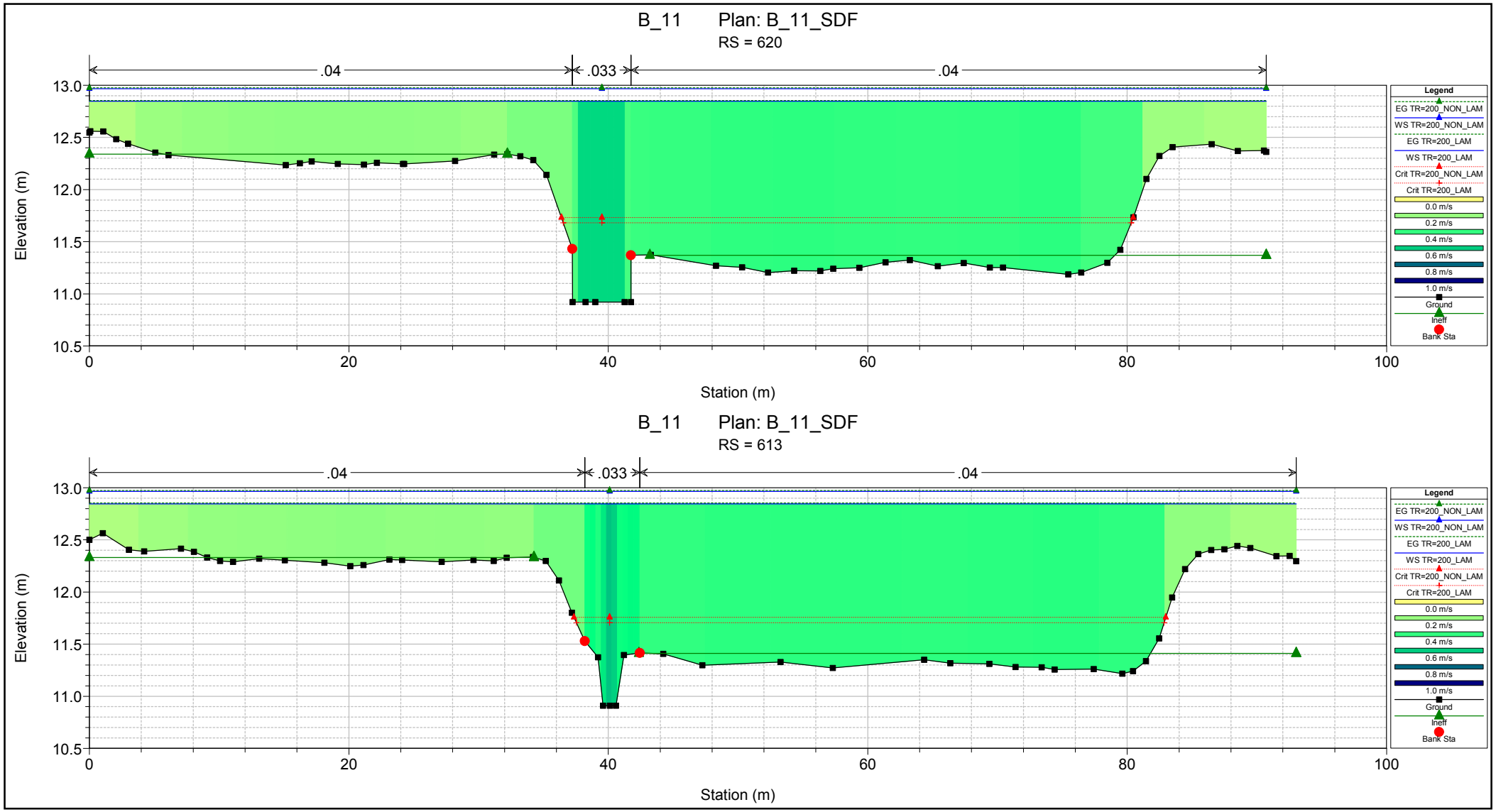

B_11 Plan: B_11_SDF
B_11 B_11
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
Ground
Elevation (m)
Main Channel Distance (m)
22
20
18
16
14
12
10
0
200
400
600
800
1000
19...
336
410
449
461
484 V...
555
613
680 Tra...
802
860
935
990

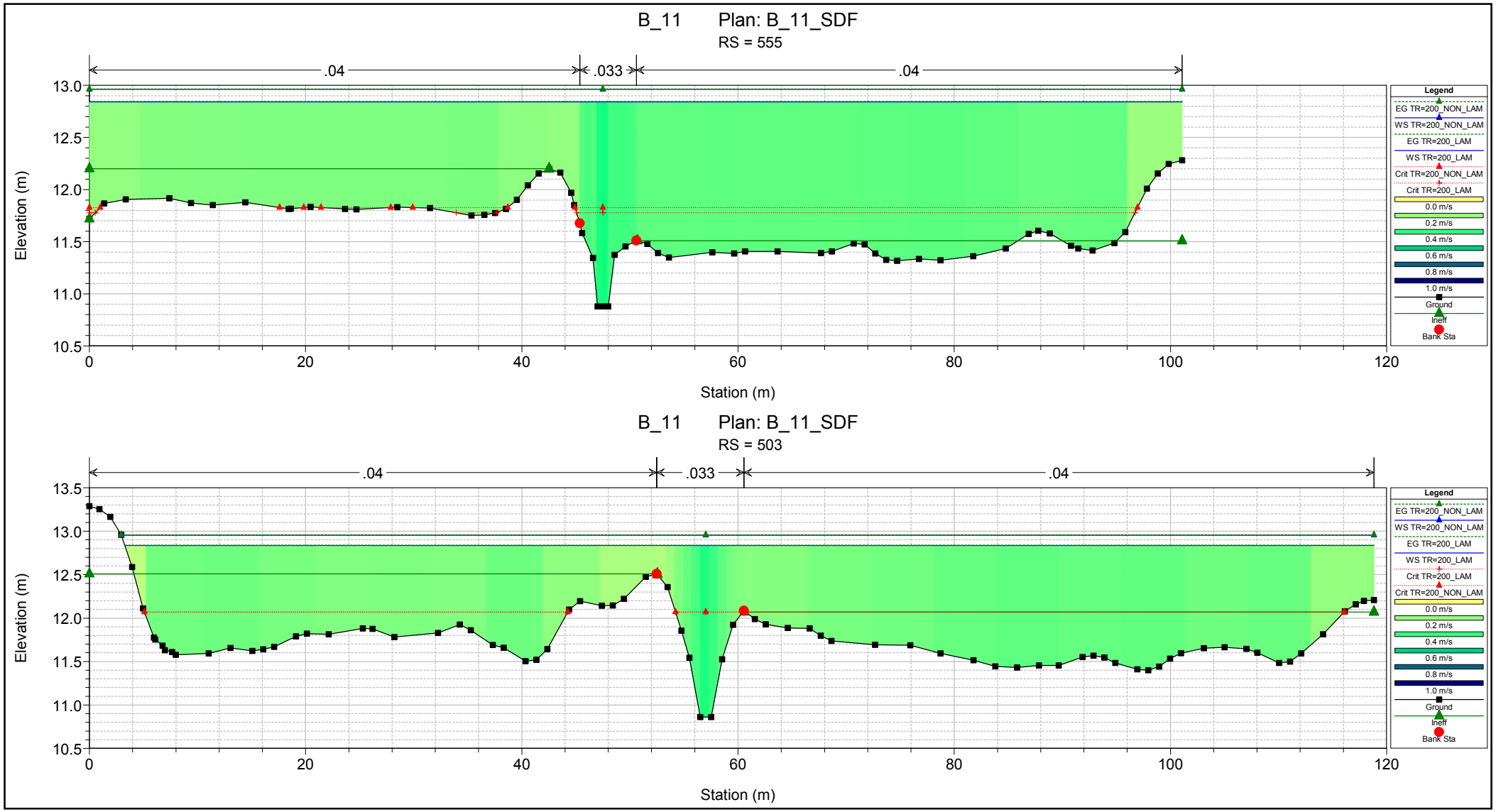

B_11 Plan: B_11_SDF
RS = 990
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 935
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
Ground
Ineff
Bank Sta

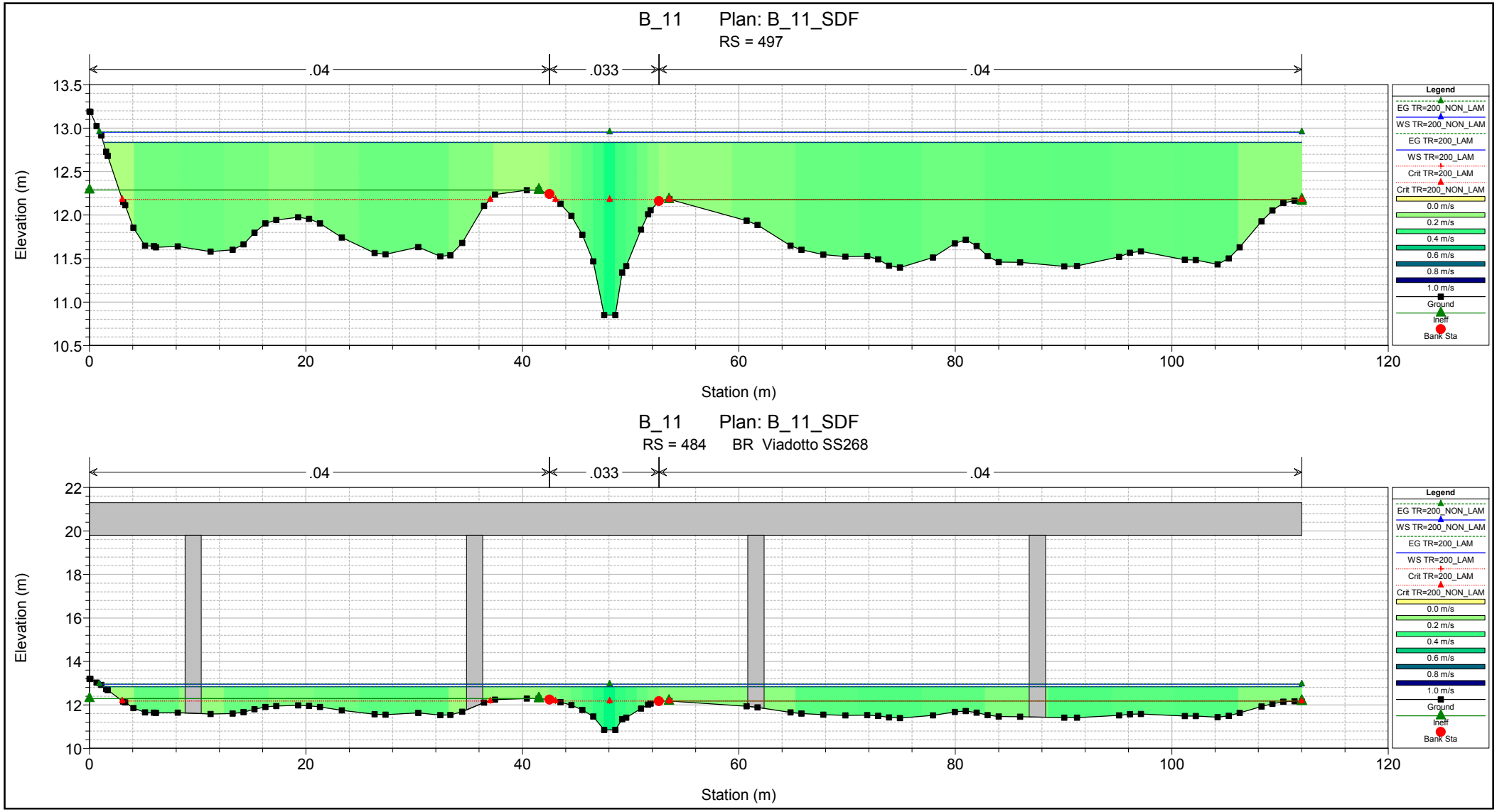

B_11 Plan: B_11_SDF
RS = 860
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 802
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta

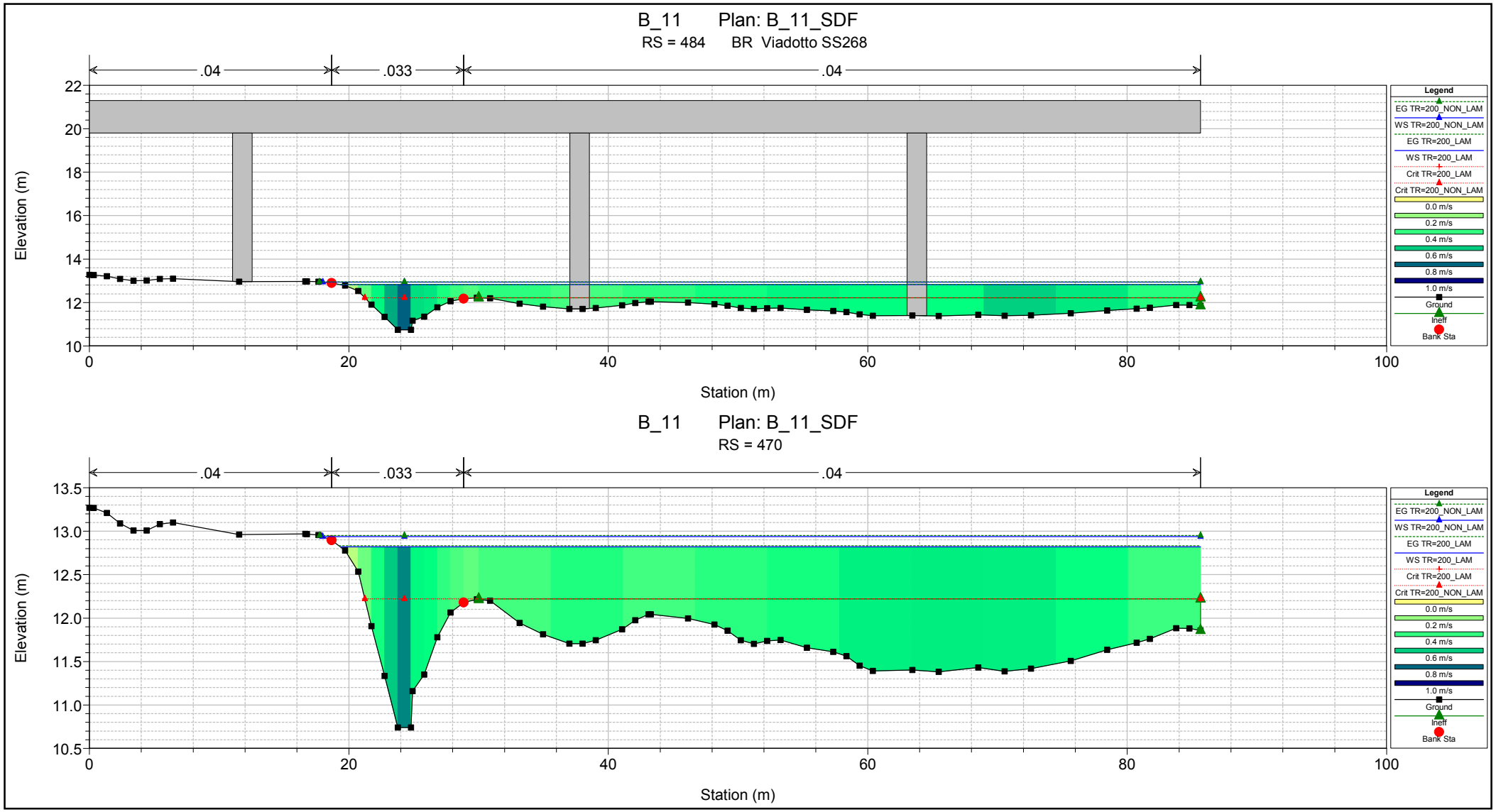

B_11 Plan: B_11_SDF
RS = 752
.04
.033
.04
Elevation (m)
13.5
13.0
12.5
12.0
11.5
11.0
0
20
40
60
80
100
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 743
.04
.033
.04
Elevation (m)
13.5
13.0
12.5
12.0
11.5
11.0
0
20
40
60
80
100
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_SDF
RS = 680 Culv Tratto tombato
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 680 Culv Tratto tombato
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_SDF
RS = 620
.04
.033
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
10.5
0
20
40
60
80
100
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 613
.04
.033
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
10.5
0
20
40
60
80
100
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta

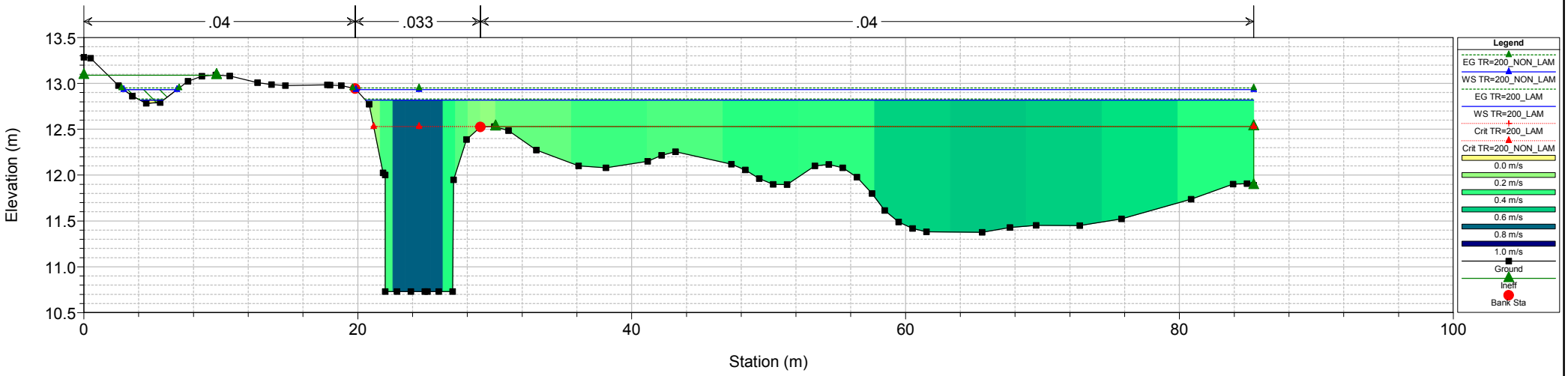

B_11 Plan: B_11_SDF
RS = 555
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 503
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_SDF
RS = 497
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 484 BR Viadotto SS268
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_SDF
RS = 484 BR Viadotto SS268
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 470
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta

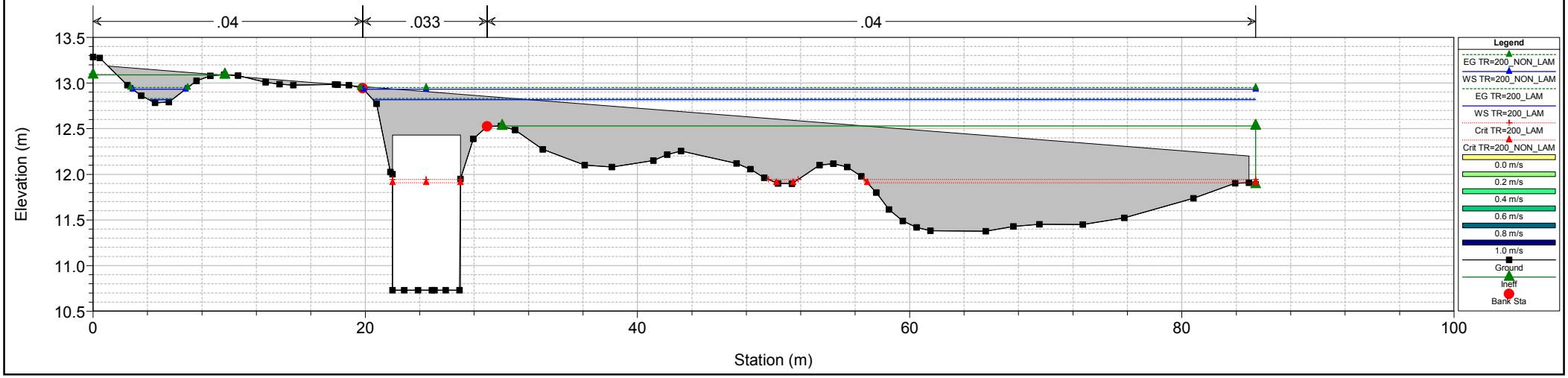
B_11 Plan: B_11_SDF

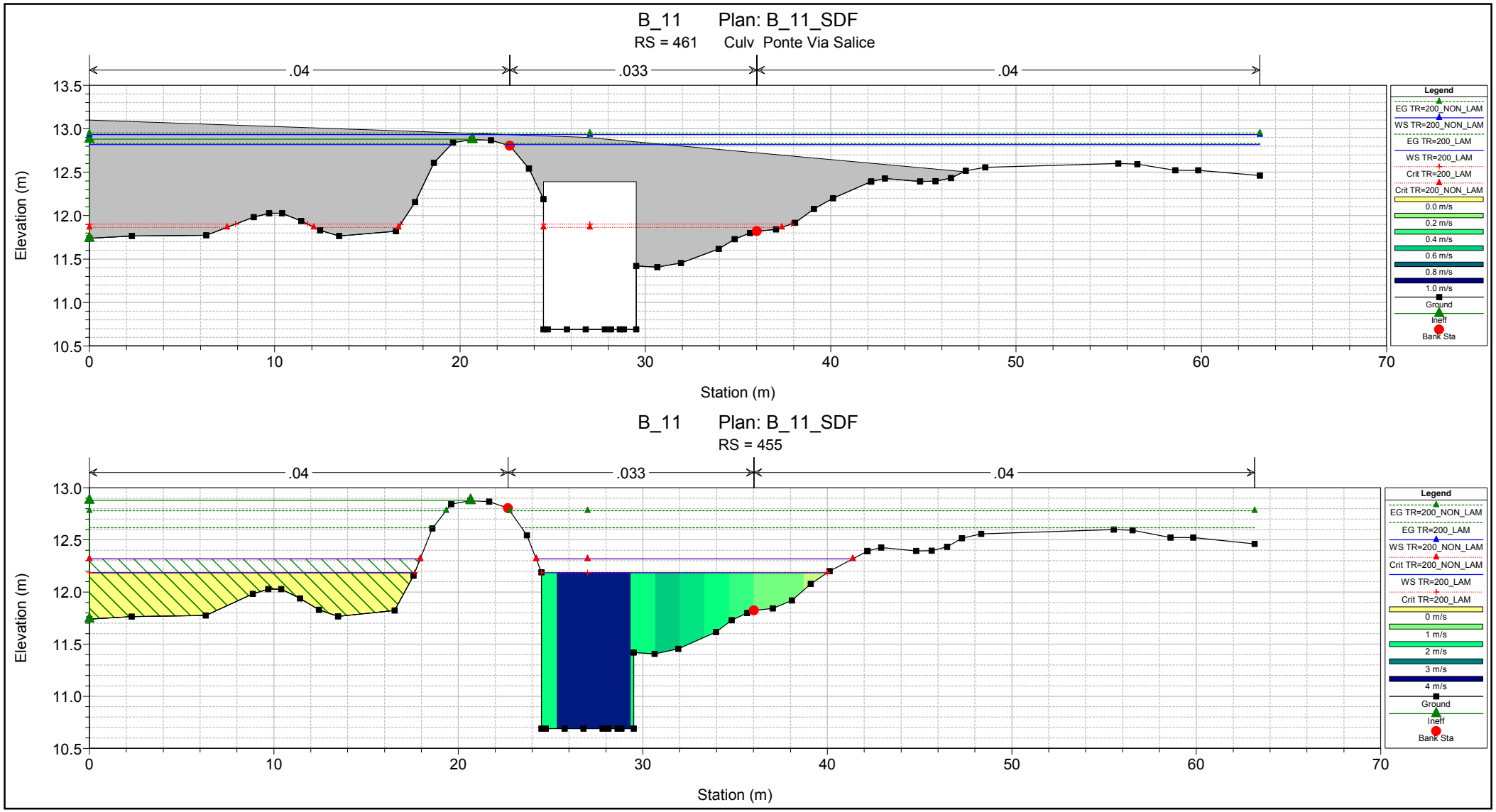
RS = 468

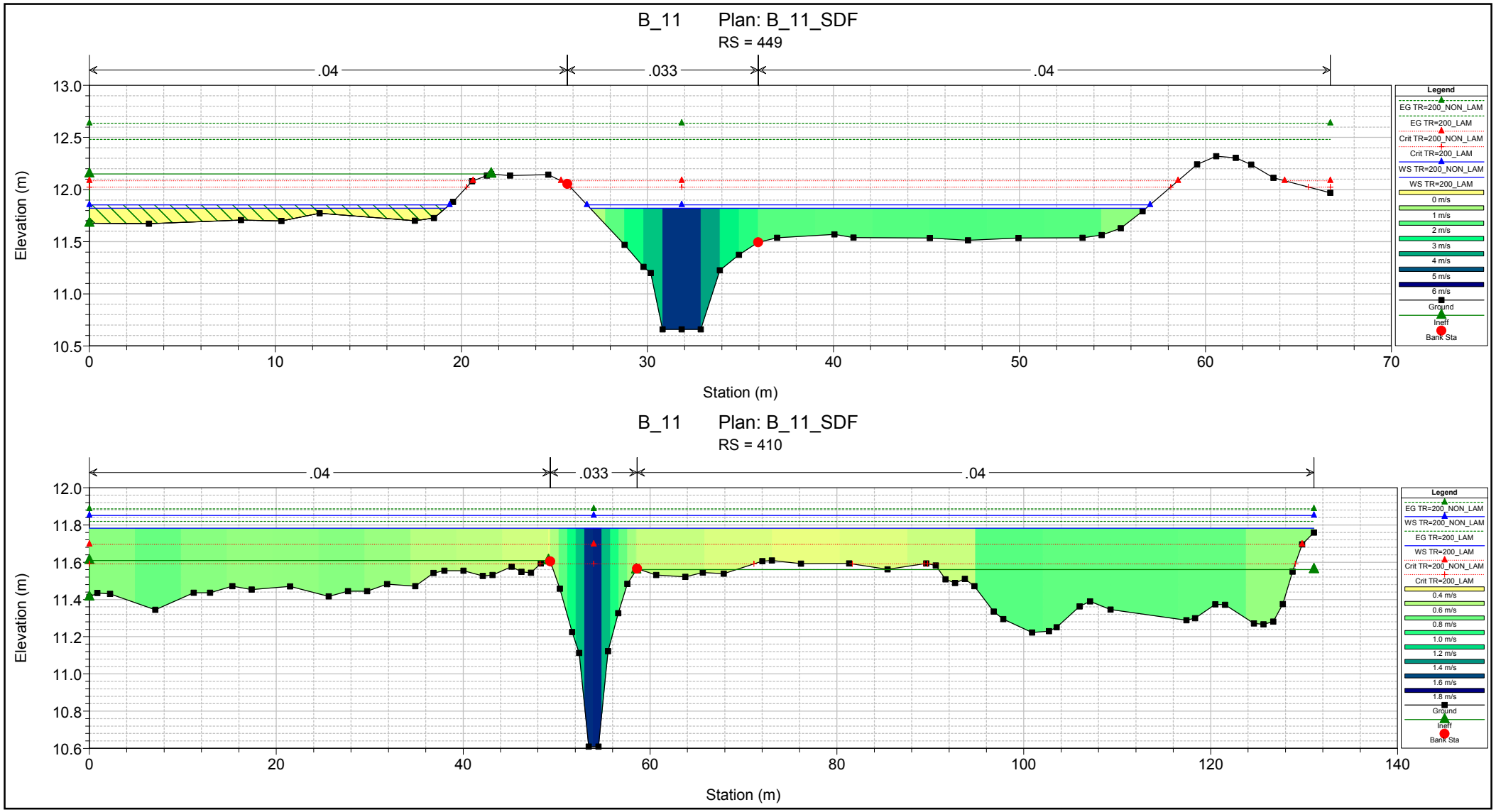


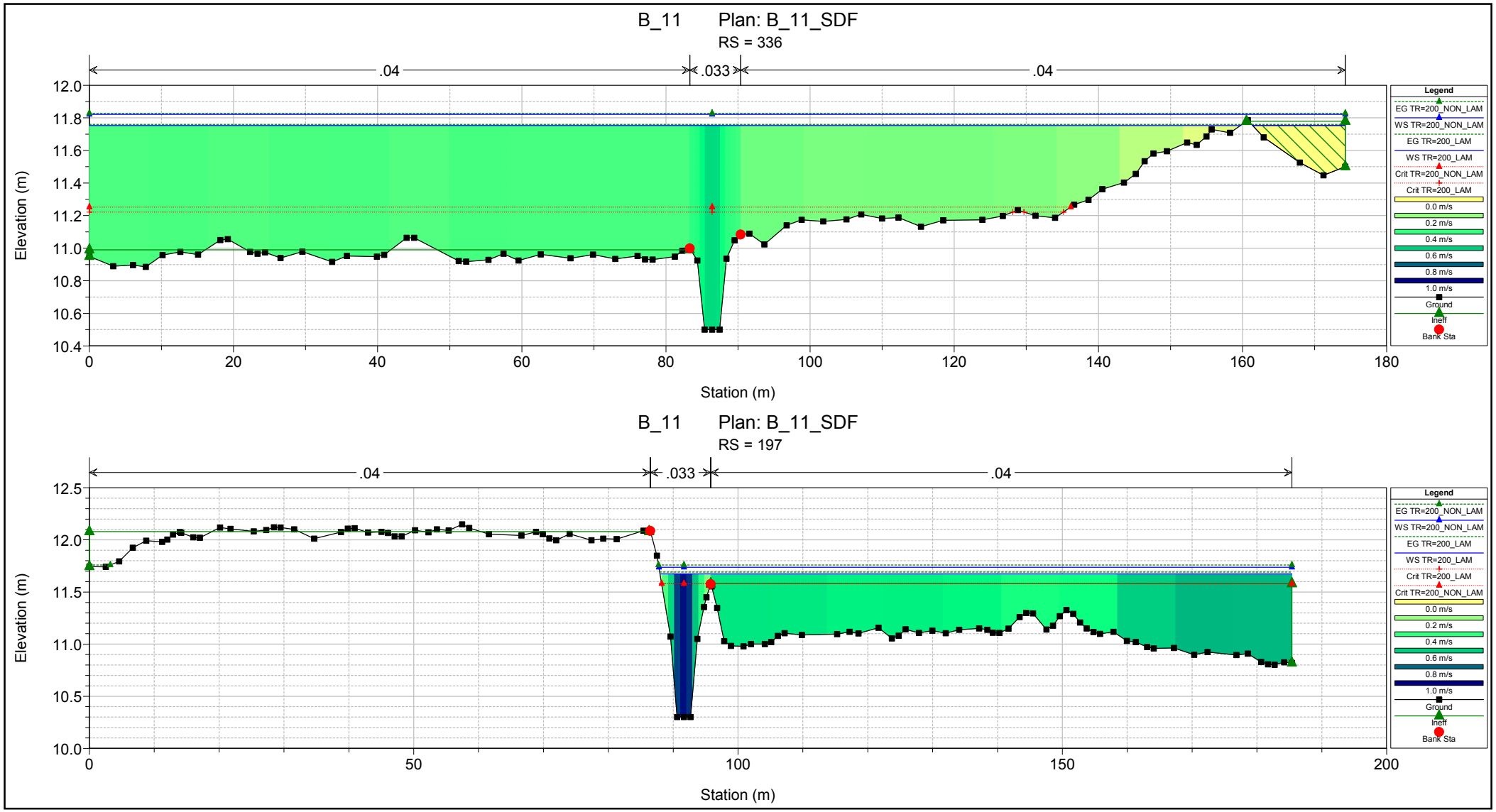
B_11 Plan: B_11_SDF

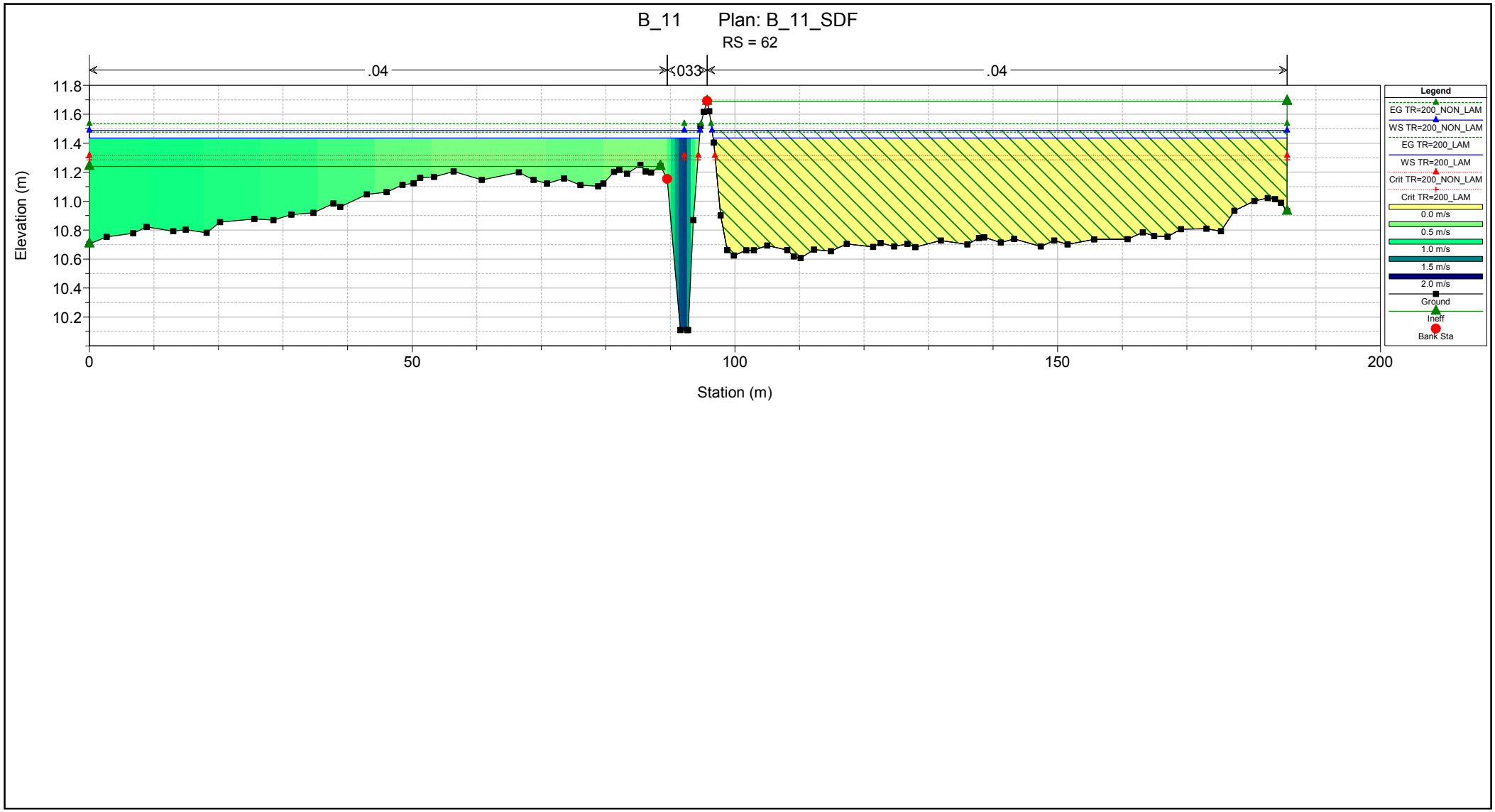
RS = 461 Culv Ponte Via Salice




B_11 Plan: B_11_SDF
RS = 461 Culv Ponte Via Salice
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 455
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
0 m/s
1 m/s
2 m/s
3 m/s
4 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_SDF
RS = 449
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
0 m/s
1 m/s
2 m/s
3 m/s
4 m/s
5 m/s
6 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 410
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_SDF
RS = 336
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_SDF
RS = 197
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_SDF
RS = 62
.04
.033
.04
Elevation (m)
11.8
11.6
11.4
11.2
11.0
10.8
10.6
10.4
10.2
0
50
100
150
200
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
Ground
Ineff
Bank Sta

3.2 CONFIGURAZIONE DI PROGETTO

3.2.1. Corso d’acqua B.09
(Configurazione di progetto - Evento TR 200 anni)

HEC-RAS Plan: PROG River: B_09 Reach: B_09

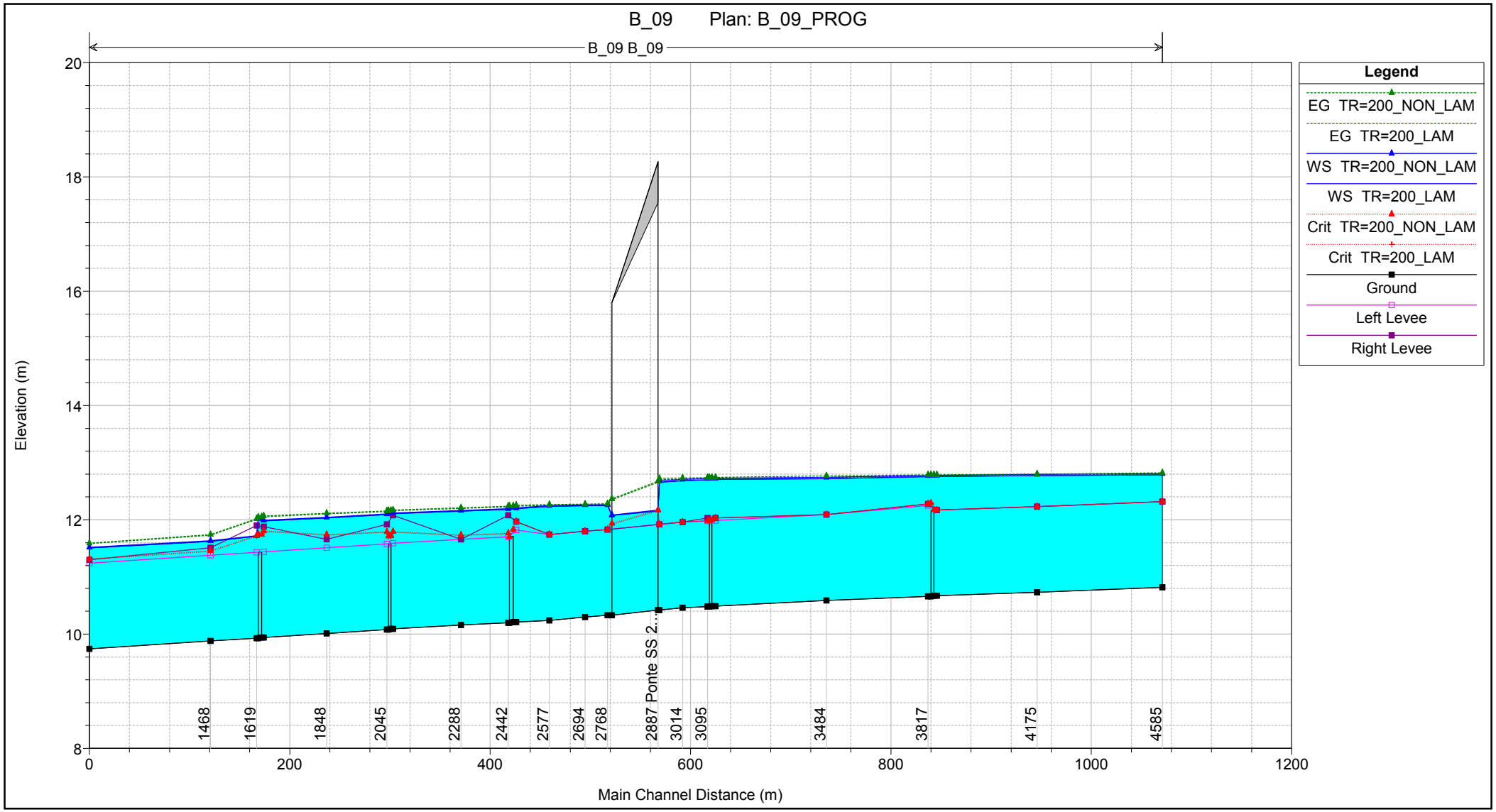
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_09	4585	TR=200_LAM	91.00	10.82	1.97	12.79	12.32	0.47	0.21	12.80	0.92	0.41	1.47	3	1.08
B_09	4585	TR=200_NON_LAM	93.00	10.82	1.99	12.81	12.32	0.49	0.21	12.82	0.92	0.41	1.49	3	1.10
B_09	4175	TR=200_LAM	91.00	10.73	2.04	12.77	12.23	0.54	0.16	12.78	0.72	0.32	1.53	2	1.09
B_09	4175	TR=200_NON_LAM	93.00	10.73	2.06	12.79	12.23	0.56	0.16	12.80	0.72	0.32	1.55	2	1.11
B_09	3847	TR=200_LAM	91.00	10.67	2.09	12.76	12.17	0.59	0.17	12.77	0.77	0.32	1.57	2	1.07
B_09	3847	TR=200_NON_LAM	93.00	10.67	2.11	12.78	12.17	0.61	0.17	12.79	0.76	0.33	1.58	2	1.09
B_09	3832		Bridge												
B_09	3817	TR=200_LAM	91.00	10.66	2.09	12.75	12.28	0.47	0.18	12.76	0.81	0.34	1.57	2	1.04
B_09	3817	TR=200_NON_LAM	93.00	10.66	2.12	12.78	12.28	0.50	0.18	12.79	0.81	0.34	1.59	2	1.06
B_09	3484	TR=200_LAM	91.00	10.59	2.13	12.72	12.09	0.63	0.23	12.74	1.07	0.55	1.60	4	1.40
B_09	3484	TR=200_NON_LAM	93.00	10.59	2.15	12.74	12.09	0.65	0.23	12.77	1.08	0.56	1.62	4	1.42
B_09	3122	TR=200_LAM	91.00	10.49	2.22	12.71	12.03	0.68	0.19	12.72	0.87	0.44	1.66	3	1.47
B_09	3122	TR=200_NON_LAM	93.00	10.49	2.24	12.73	12.03	0.70	0.19	12.74	0.88	0.45	1.68	3	1.49
B_09	3108		Bridge												
B_09	3095	TR=200_LAM	91.00	10.48	2.22	12.70	11.98	0.72	0.20	12.72	0.92	0.47	1.67	3	1.43
B_09	3095	TR=200_NON_LAM	93.00	10.48	2.24	12.72	11.98	0.74	0.20	12.74	0.92	0.47	1.68	3	1.45
B_09	3014	TR=200_LAM	91.00	10.46	2.23	12.69	11.96	0.73	0.24	12.71	1.11	0.58	1.67	4	1.43
B_09	3014	TR=200_NON_LAM	93.00	10.46	2.25	12.71	11.96	0.75	0.24	12.73	1.11	0.58	1.69	4	1.45
B_09	2938	TR=200_LAM	91.00	10.42	2.24	12.66	11.92	0.74	0.30	12.70	1.39	0.78	1.68	6	1.59
B_09	2938	TR=200_NON_LAM	93.00	10.42	2.26	12.68	11.92	0.76	0.30	12.72	1.40	0.78	1.69	6	1.61
B_09	2887		Bridge												
B_09	2768	TR=200_LAM	91.00	10.33	1.92	12.25	11.83	0.42	0.25	12.27	1.07	0.48	1.44	4	1.06
B_09	2768	TR=200_NON_LAM	93.00	10.33	1.93	12.26	11.83	0.43	0.25	12.28	1.08	0.49	1.45	4	1.07
B_09	2694	TR=200_LAM	91.00	10.30	1.95	12.25	11.80	0.45	0.22	12.26	0.97	0.43	1.46	3	1.08
B_09	2694	TR=200_NON_LAM	93.00	10.30	1.96	12.26	11.80	0.46	0.22	12.28	0.97	0.44	1.47	3	1.09

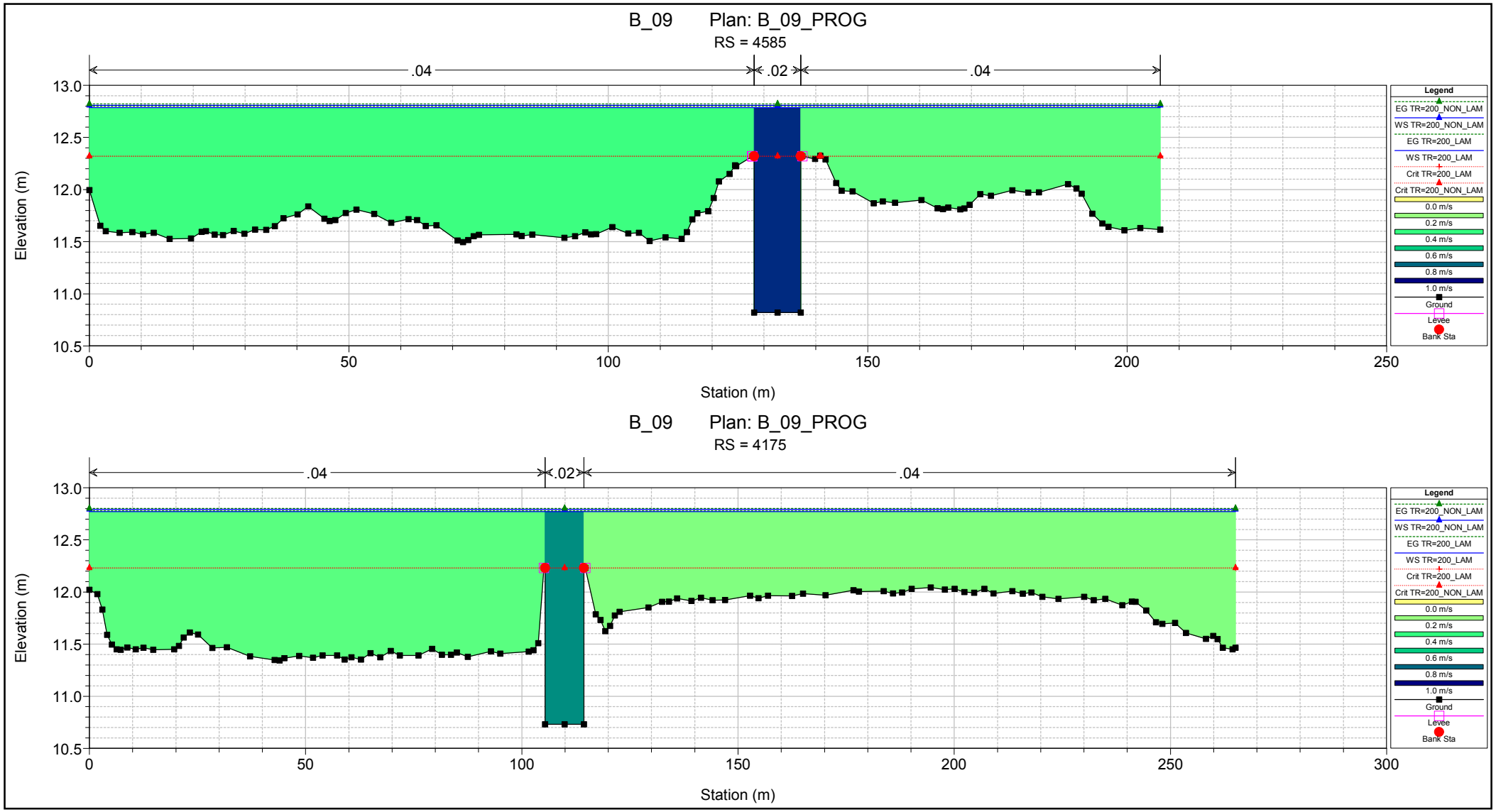
HEC-RAS Plan: PROG River: B_09 Reach: B_09 (Continued)

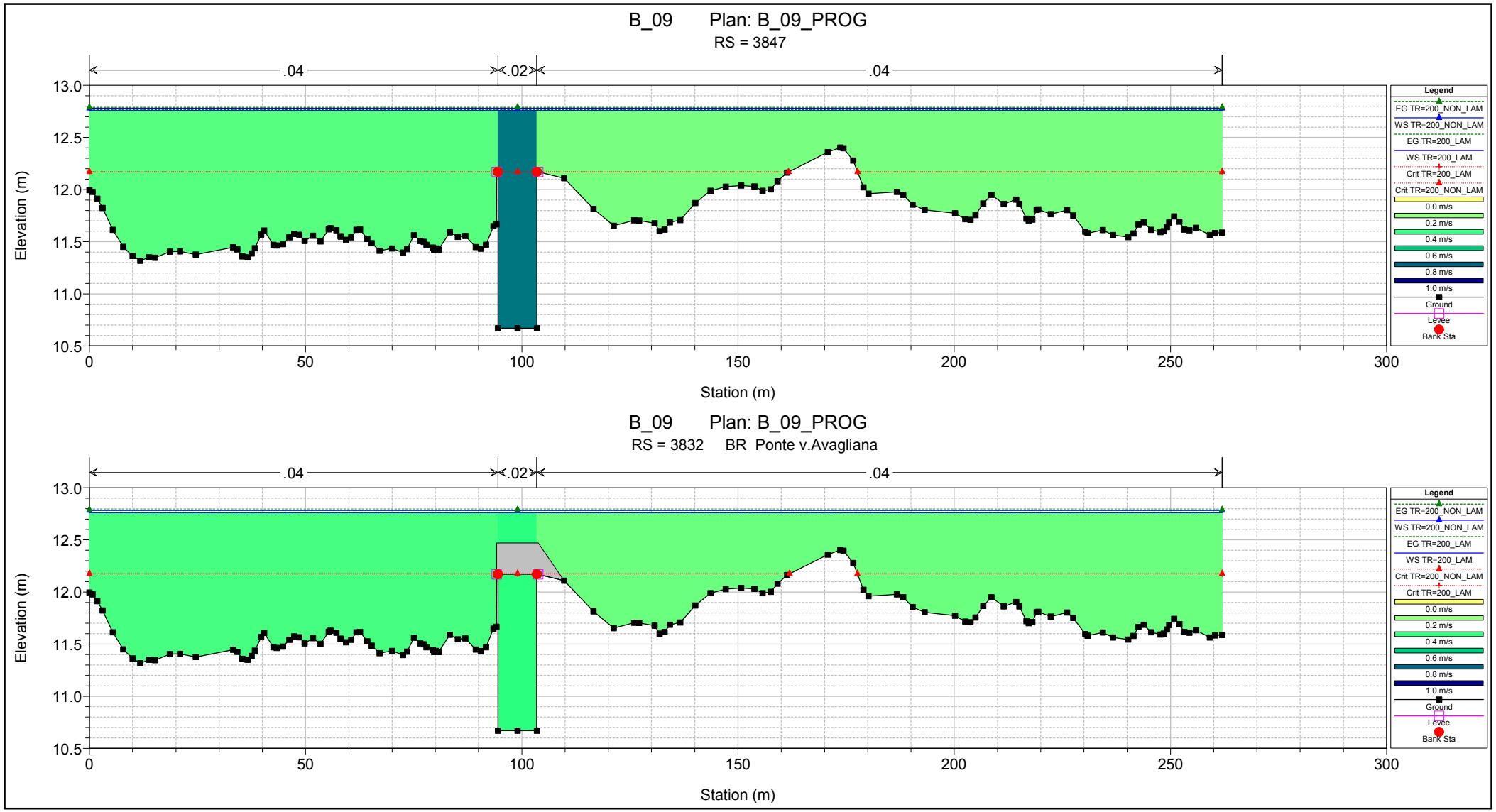
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_09	2577	TR=200_LAM	91.00	10.24	2.00	12.24	11.74	0.50	0.24	12.25	1.06	0.46	1.50	4	1.06
B_09	2577	TR=200_NON_LAM	93.00	10.24	2.01	12.25	11.74	0.51	0.24	12.27	1.06	0.47	1.51	4	1.08
B_09	2469	TR=200_LAM	91.00	10.21	1.98	12.19	11.97	0.22	0.34	12.24	1.51	0.67	1.49	8	0.98
B_09	2469	TR=200_NON_LAM	93.00	10.21	2.00	12.21	11.97	0.24	0.34	12.25	1.52	0.67	1.50	8	1.00
B_09	2455		Bridge												
B_09	2442	TR=200_LAM	91.00	10.20	1.98	12.18	11.75	0.43	0.33	12.23	1.46	0.66	1.49	7	1.02
B_09	2442	TR=200_NON_LAM	93.00	10.20	2.00	12.20	11.76	0.44	0.33	12.24	1.47	0.67	1.50	7	1.04
B_09	2288	TR=200_LAM	91.00	10.16	1.99	12.15	11.72	0.43	0.35	12.20	1.56	0.70	1.49	8	1.00
B_09	2288	TR=200_NON_LAM	93.00	10.16	2.00	12.16	11.73	0.43	0.35	12.21	1.57	0.70	1.50	8	1.01
B_09	2065	TR=200_LAM	91.00	10.09	2.02	12.11	11.78	0.33	0.36	12.16	1.60	0.69	1.51	9	0.91
B_09	2065	TR=200_NON_LAM	93.00	10.09	2.03	12.12	11.79	0.33	0.36	12.17	1.61	0.69	1.52	9	0.93
B_09	2055		Bridge												
B_09	2045	TR=200_LAM	91.00	10.08	2.01	12.09	11.78	0.31	0.36	12.14	1.60	0.68	1.51	9	0.91
B_09	2045	TR=200_NON_LAM	93.00	10.08	2.03	12.11	11.79	0.32	0.36	12.16	1.60	0.69	1.52	9	0.92
B_09	1848	TR=200_LAM	91.00	10.01	2.02	12.03	11.73	0.30	0.41	12.10	1.81	0.77	1.52	11	0.87
B_09	1848	TR=200_NON_LAM	93.00	10.01	2.03	12.04	11.74	0.30	0.41	12.11	1.82	0.78	1.52	11	0.88
B_09	1642	TR=200_LAM	91.00	9.94	2.04	11.98	11.79	0.19	0.41	12.05	1.84	0.75	1.53	11	0.81
B_09	1642	TR=200_NON_LAM	93.00	9.94	2.05	11.99	11.81	0.18	0.41	12.07	1.84	0.76	1.54	12	0.82
B_09	1630		Bridge												
B_09	1619	TR=200_LAM	91.00	9.93	1.78	11.71	11.71	0.00	0.75	12.01	3.12	1.49	1.34	35	0.71
B_09	1619	TR=200_NON_LAM	93.00	9.93	1.79	11.72	11.72	0.00	0.75	12.02	3.15	1.50	1.34	35	0.72
B_09	1468	TR=200_LAM	91.00	9.88	1.74	11.62	11.45	0.17	0.53	11.73	2.18	0.92	1.31	17	0.66
B_09	1468	TR=200_NON_LAM	93.00	9.88	1.75	11.63	11.46	0.17	0.53	11.74	2.19	0.92	1.31	17	0.67
B_09	1071	TR=200_LAM	91.00	9.74	1.77	11.51	11.31	0.20	0.46	11.58	1.91	0.77	1.33	13	0.70

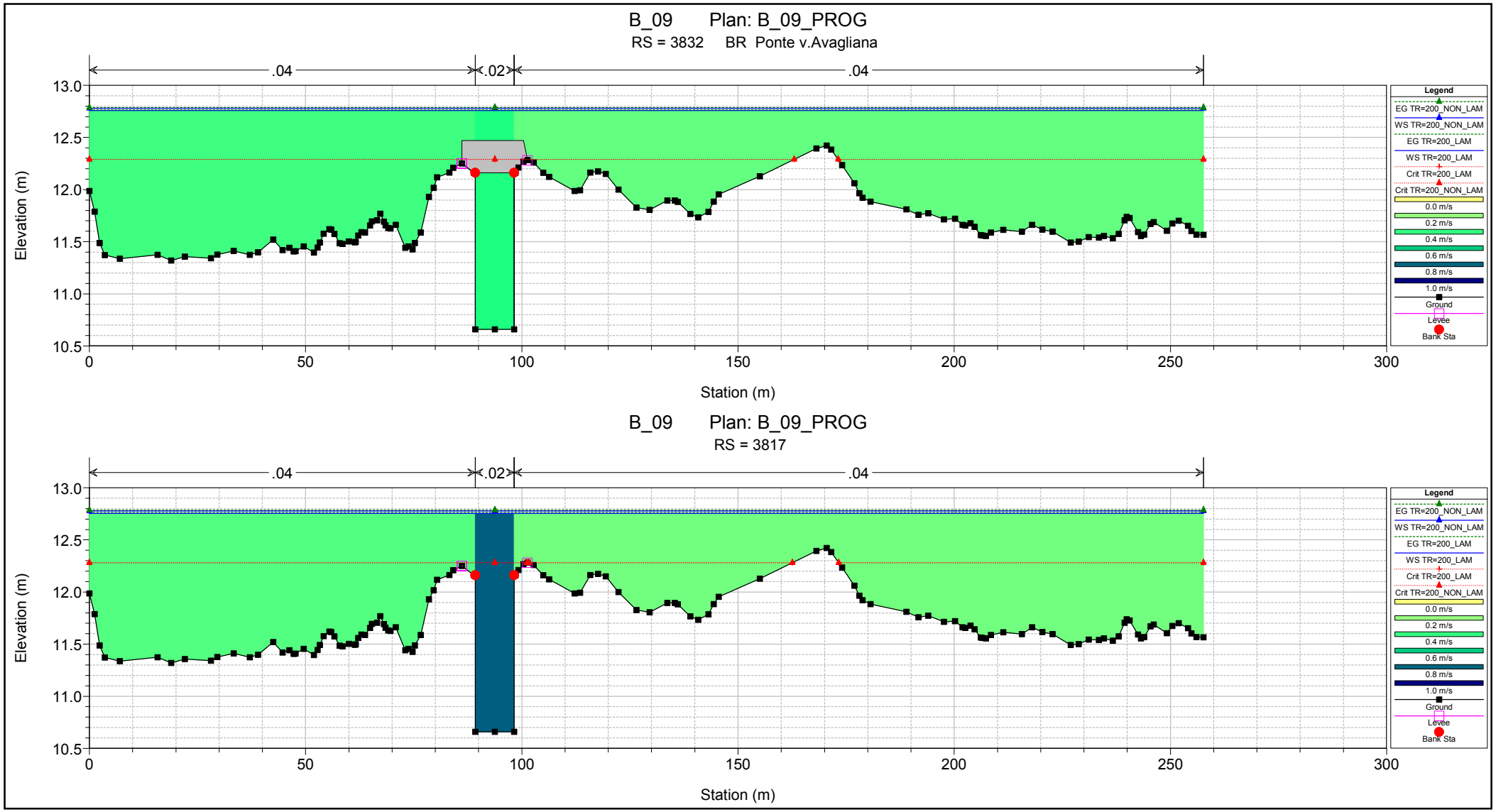
HEC-RAS Plan: PROG River: B_09 Reach: B_09 (Continued)

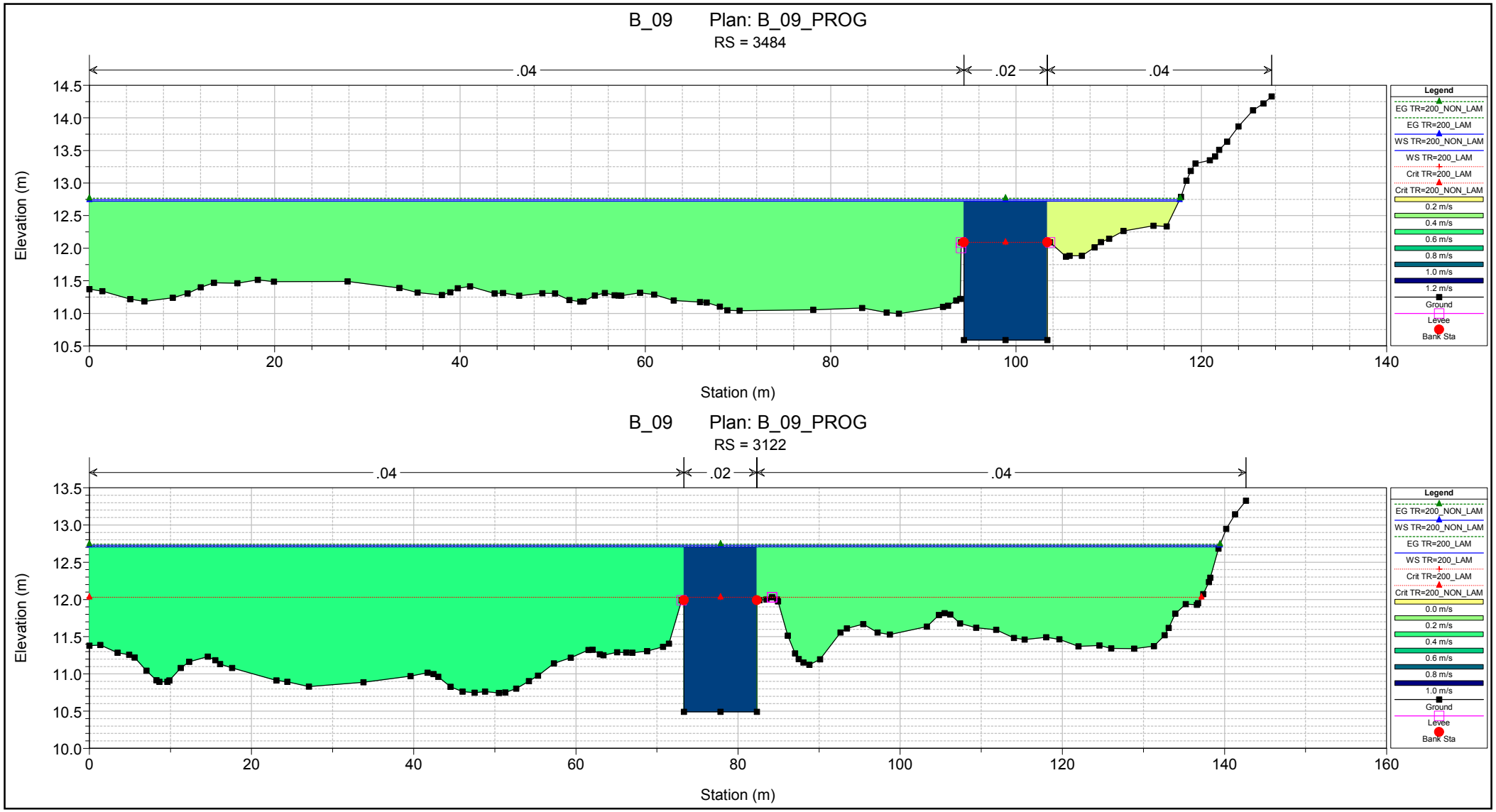
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_09	1071	TR=200_NON_LAM	93.00	9.74	1.78	11.52	11.32	0.20	0.46	11.59	1.92	0.77	1.33	13	0.71

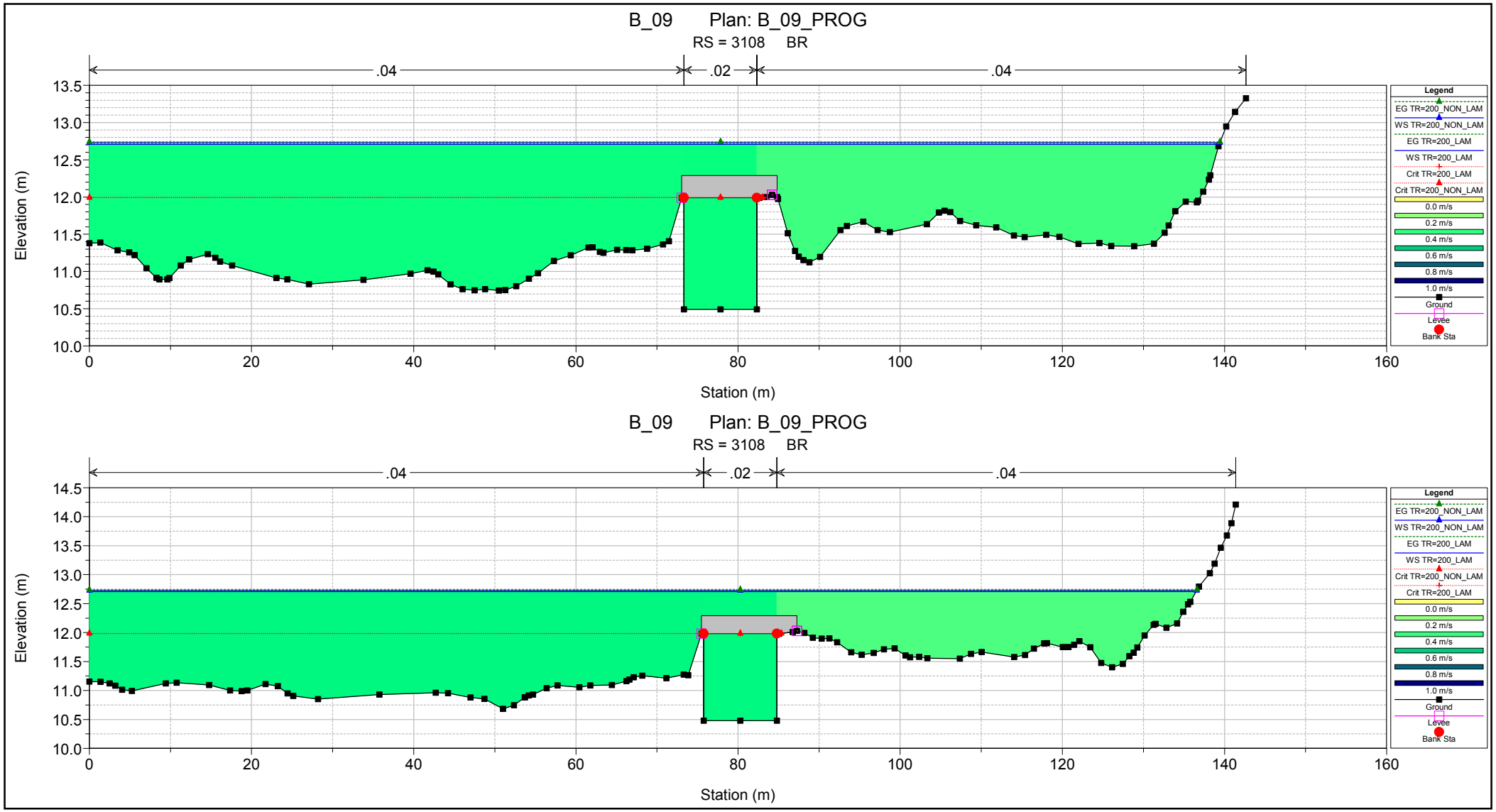

B_09 Plan: B_09_PROG
B_09 B_09
Elevation (m)
Main Channel Distance (m)
20
18
16
14
12
10
8
0
200
400
600
800
1000
1200
1468
1619
1848
2045
2288
2442
2577
2694
2768
2887 Ponte SS 2...
3014
3095
3484
3817
4175
4585
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
Ground
Left Levee
Right Levee

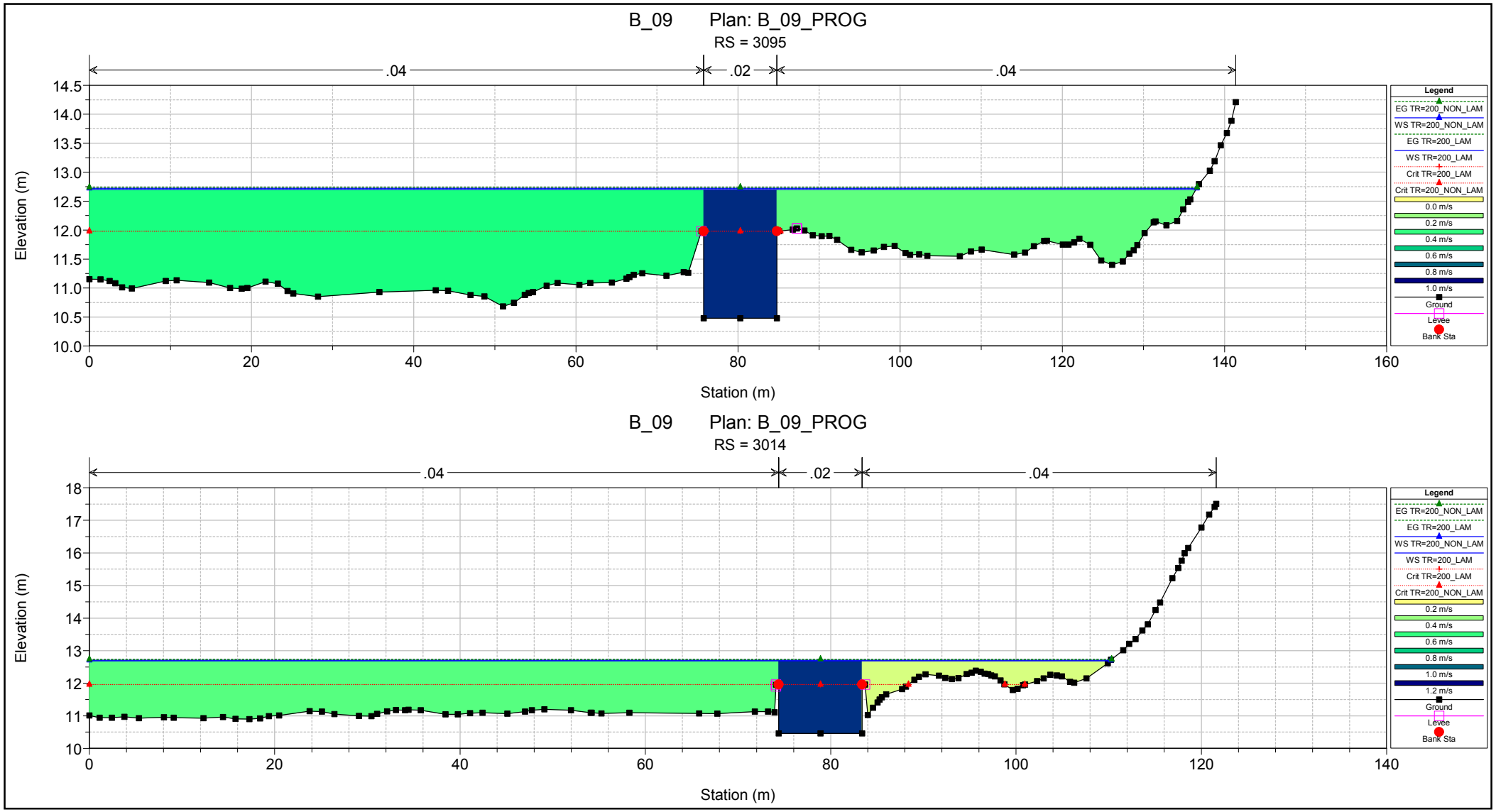

B_09 Plan: B_09_PROG
RS = 4585
.04
.02
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 4175
.04
.02
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

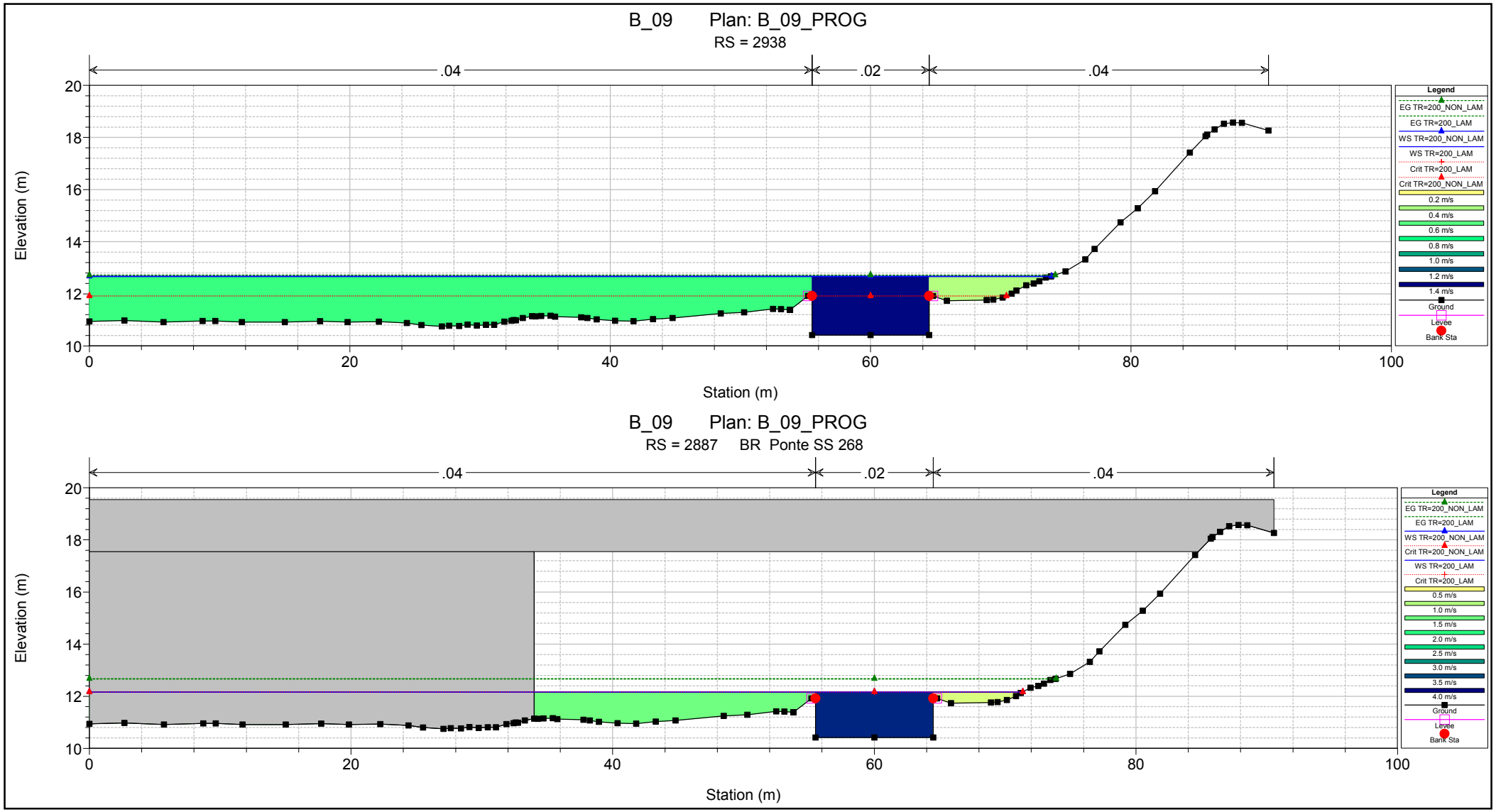

B_09 Plan: B_09_PROG
RS = 3847
.04
.02
.04
13.0
12.5
12.0
11.5
11.0
10.5
Elevation (m)
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 3832 BR Ponte v.Avagliana
.04
.02
.04
13.0
12.5
12.0
11.5
11.0
10.5
Elevation (m)
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

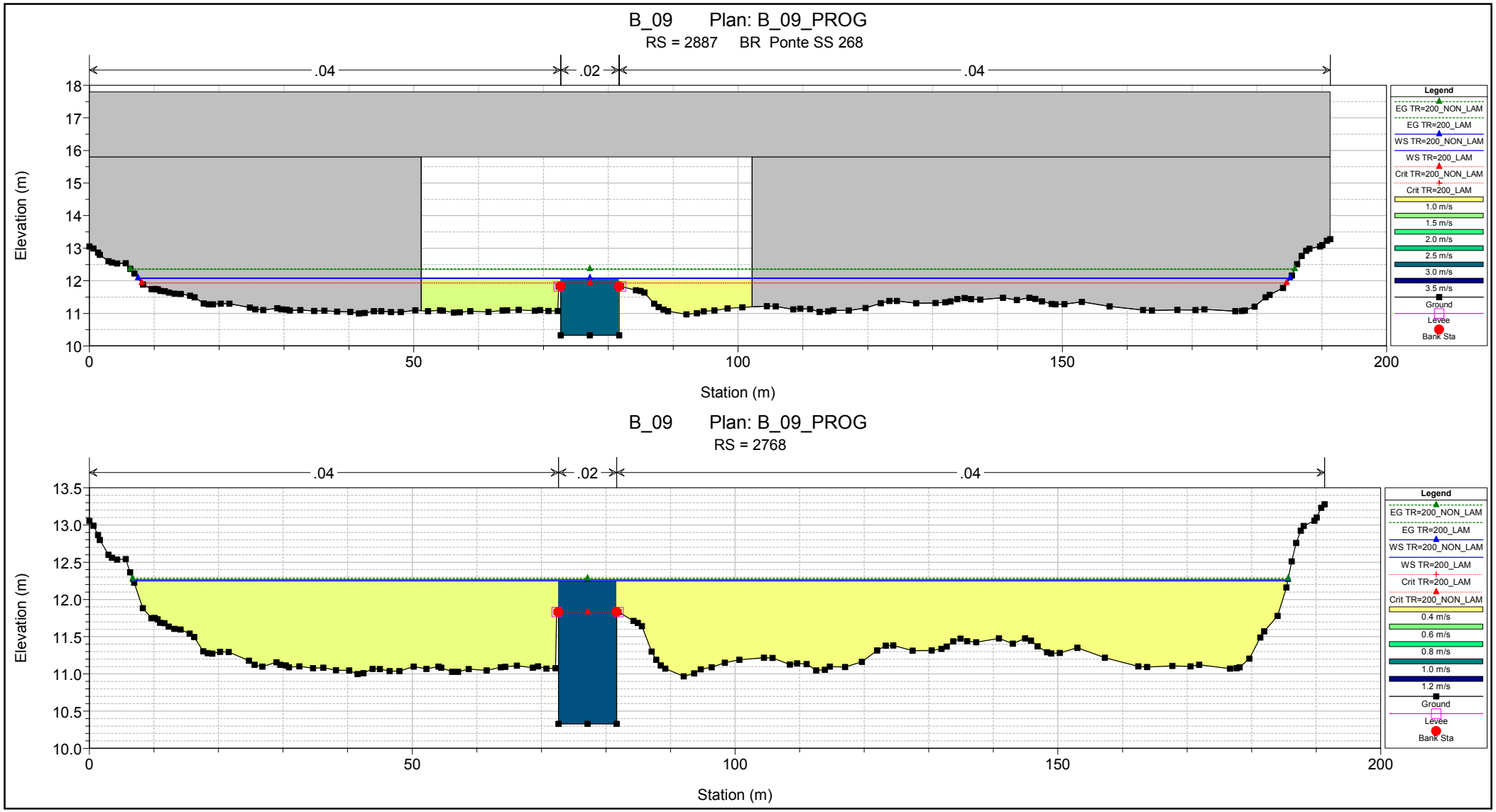

B_09 Plan: B_09_PROG
RS = 3832 BR Ponte v.Avagliana
.04
.02
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 3817
.04
.02
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
10.5
0
50
100
150
200
250
300
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

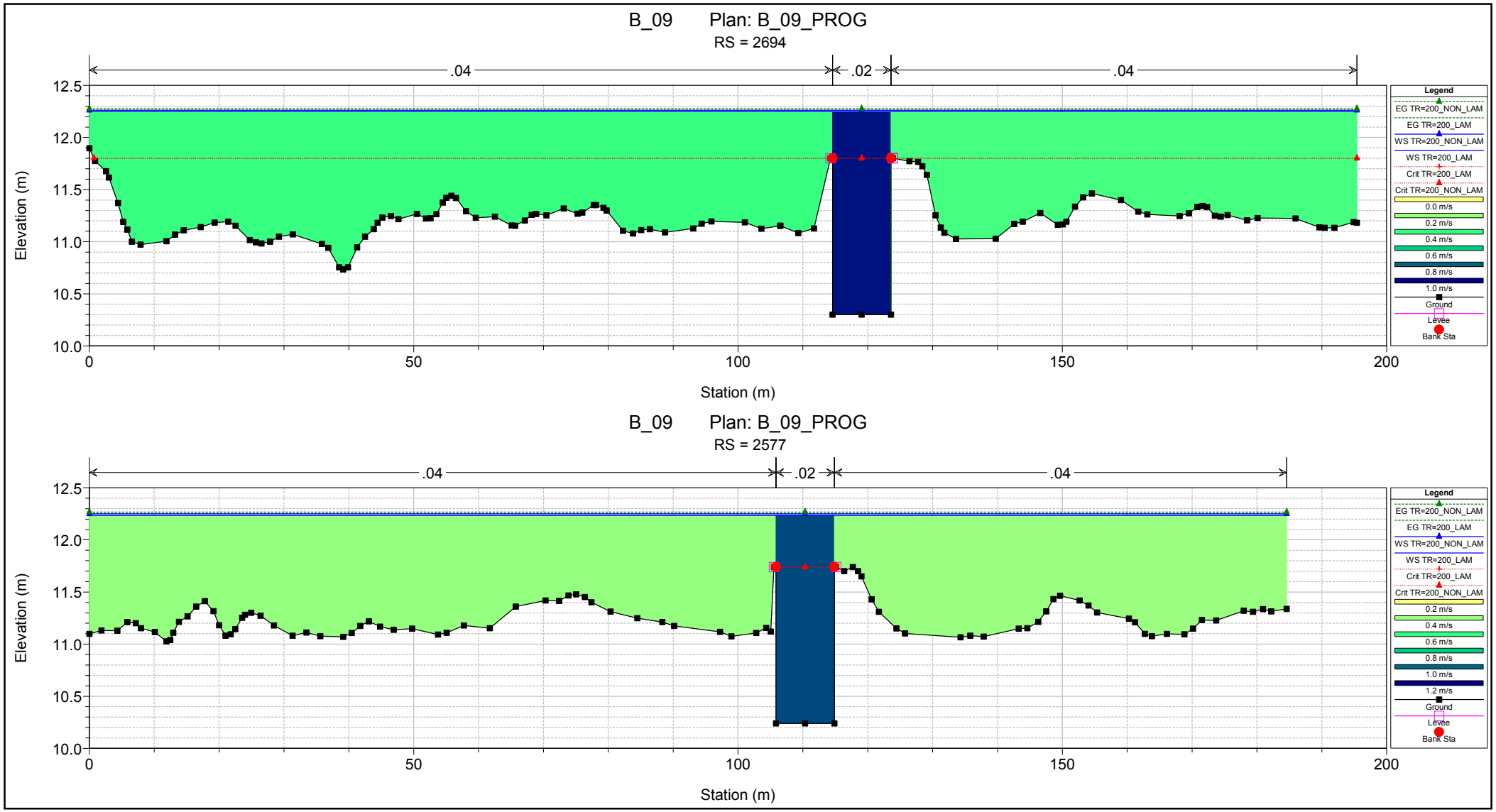

B_09 Plan: B_09_PROG
RS = 3484
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 3122
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

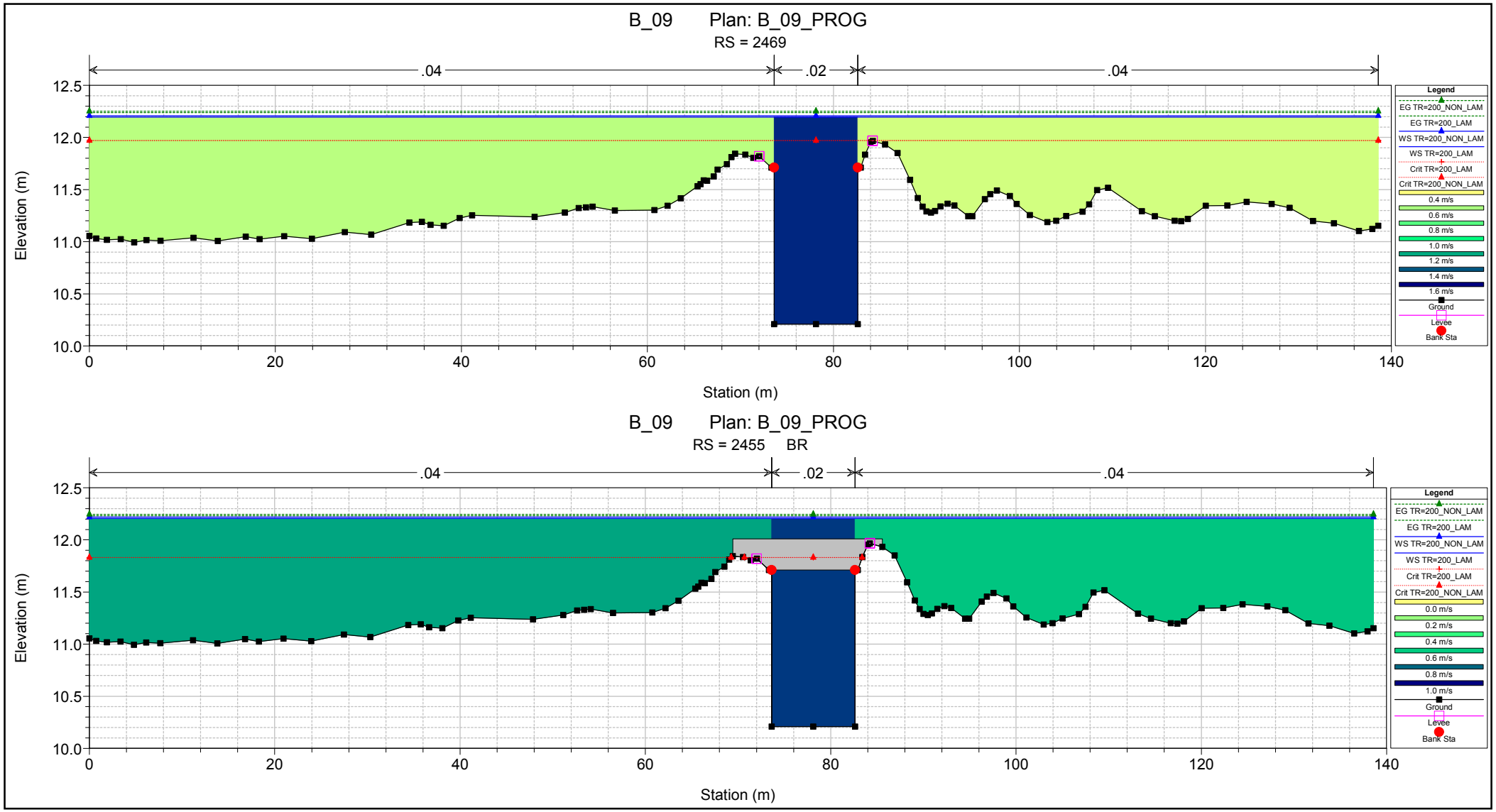

B_09 Plan: B_09_PROG
RS = 3108 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 3108 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

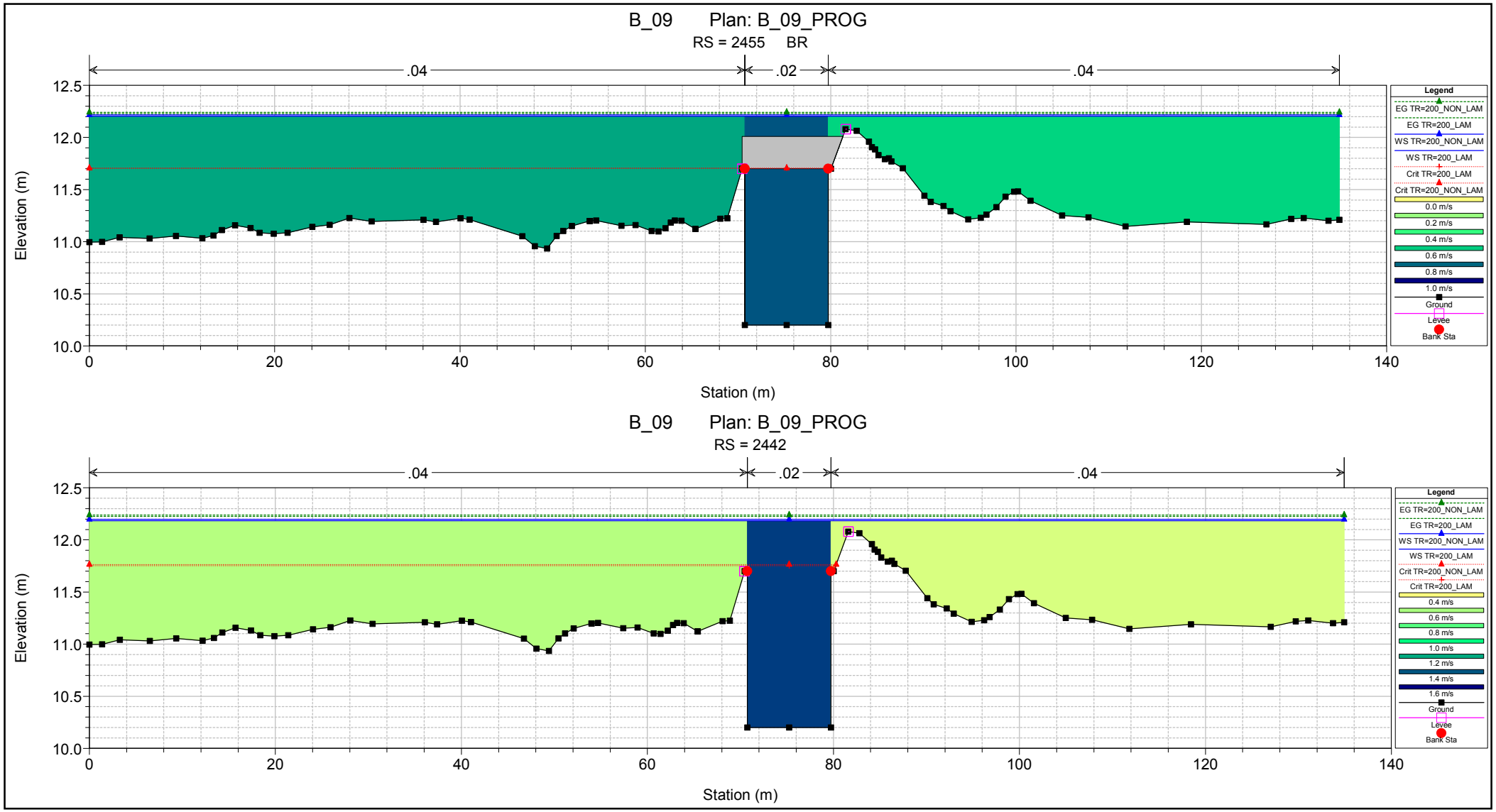

B_09 Plan: B_09_PROG
RS = 3095
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 3014
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Levee
Bank Sta

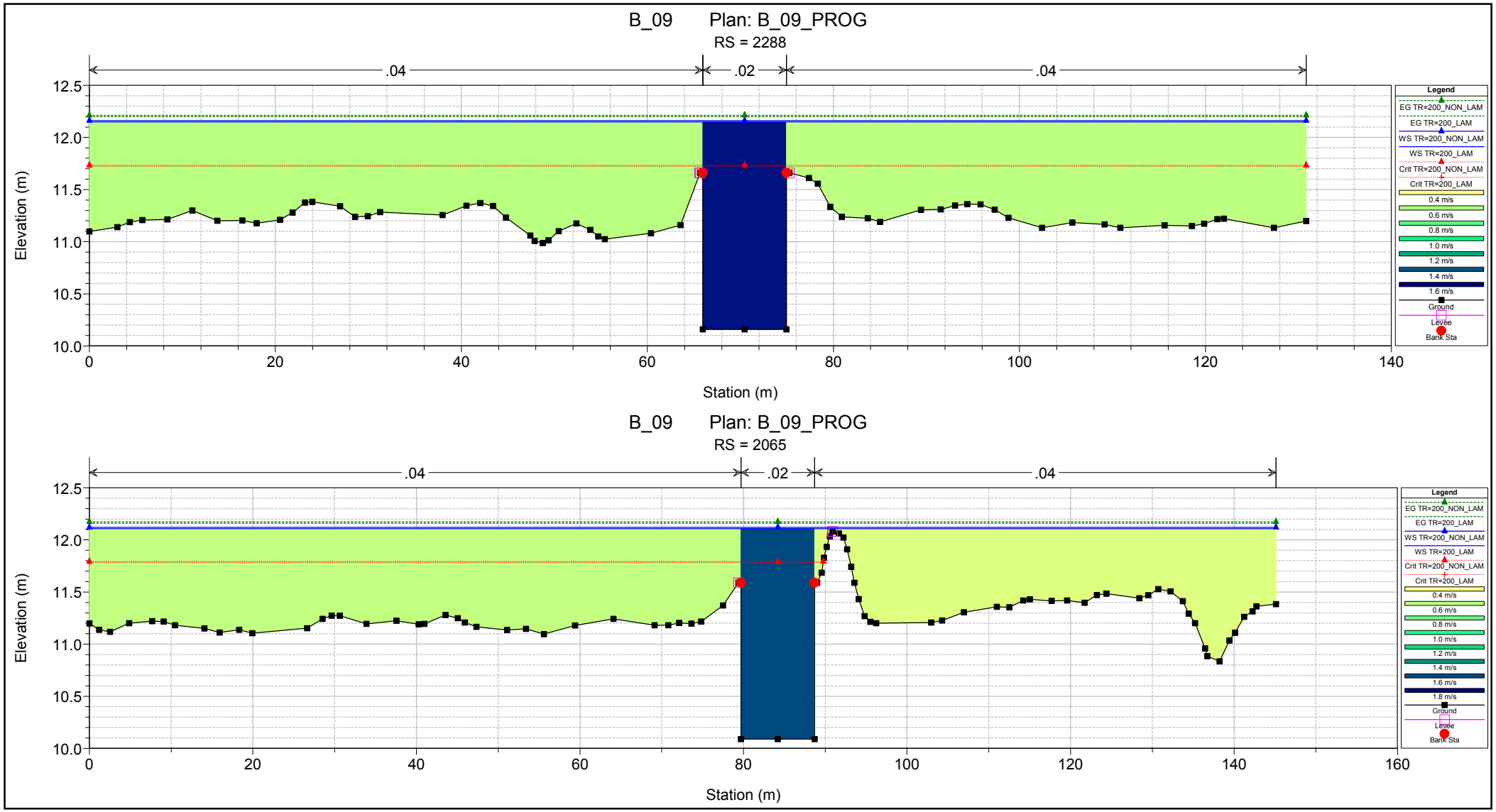

B_09 Plan: B_09_PROG
RS = 2938
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 2887 BR Ponte SS 268
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
3.5 m/s
4.0 m/s
Ground
Levee
Bank Sta

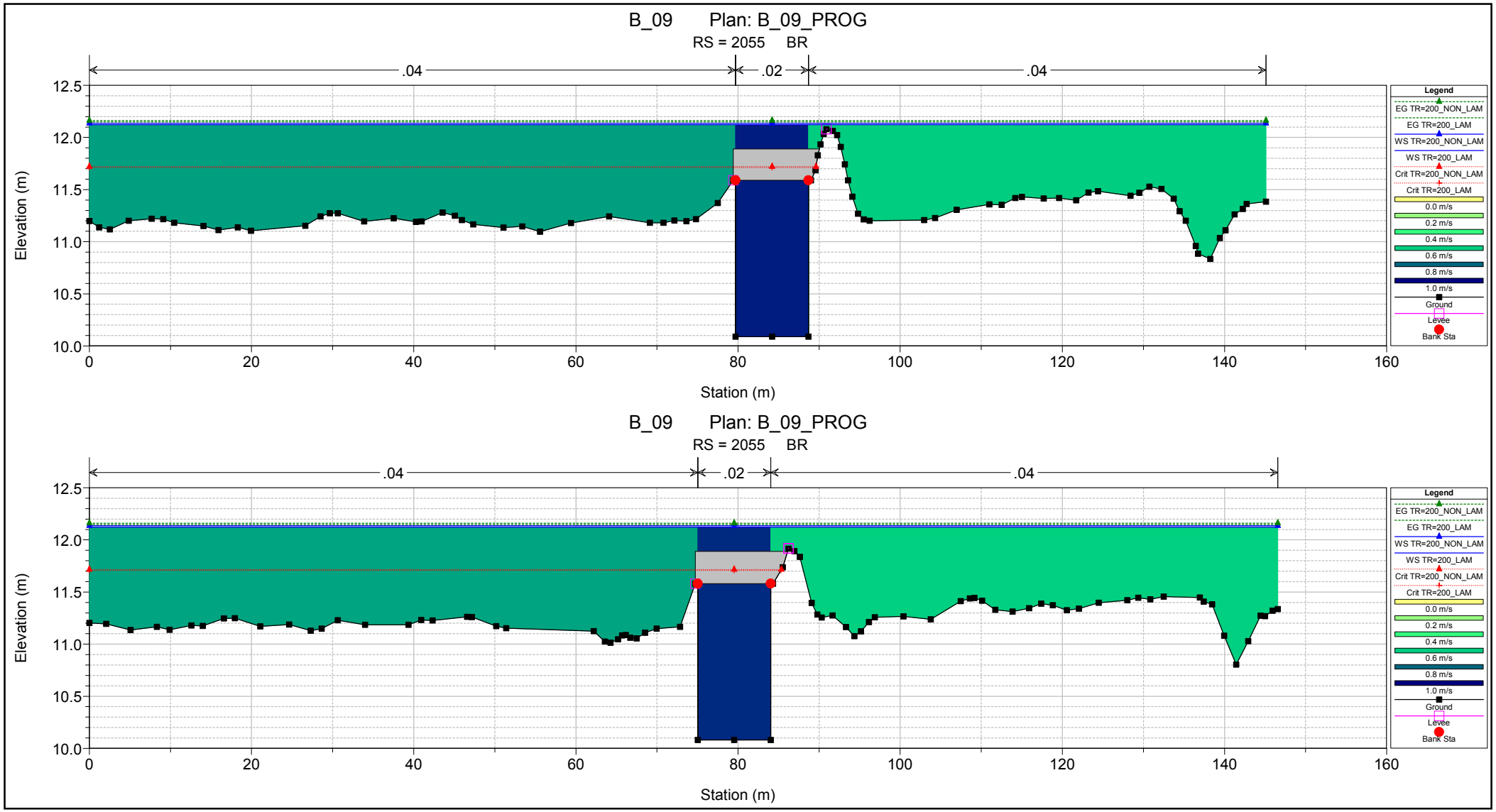

B_09 Plan: B_09_PROG
RS = 2887 BR Ponte SS 268
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
3.5 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 2768
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Levee
Bank Sta

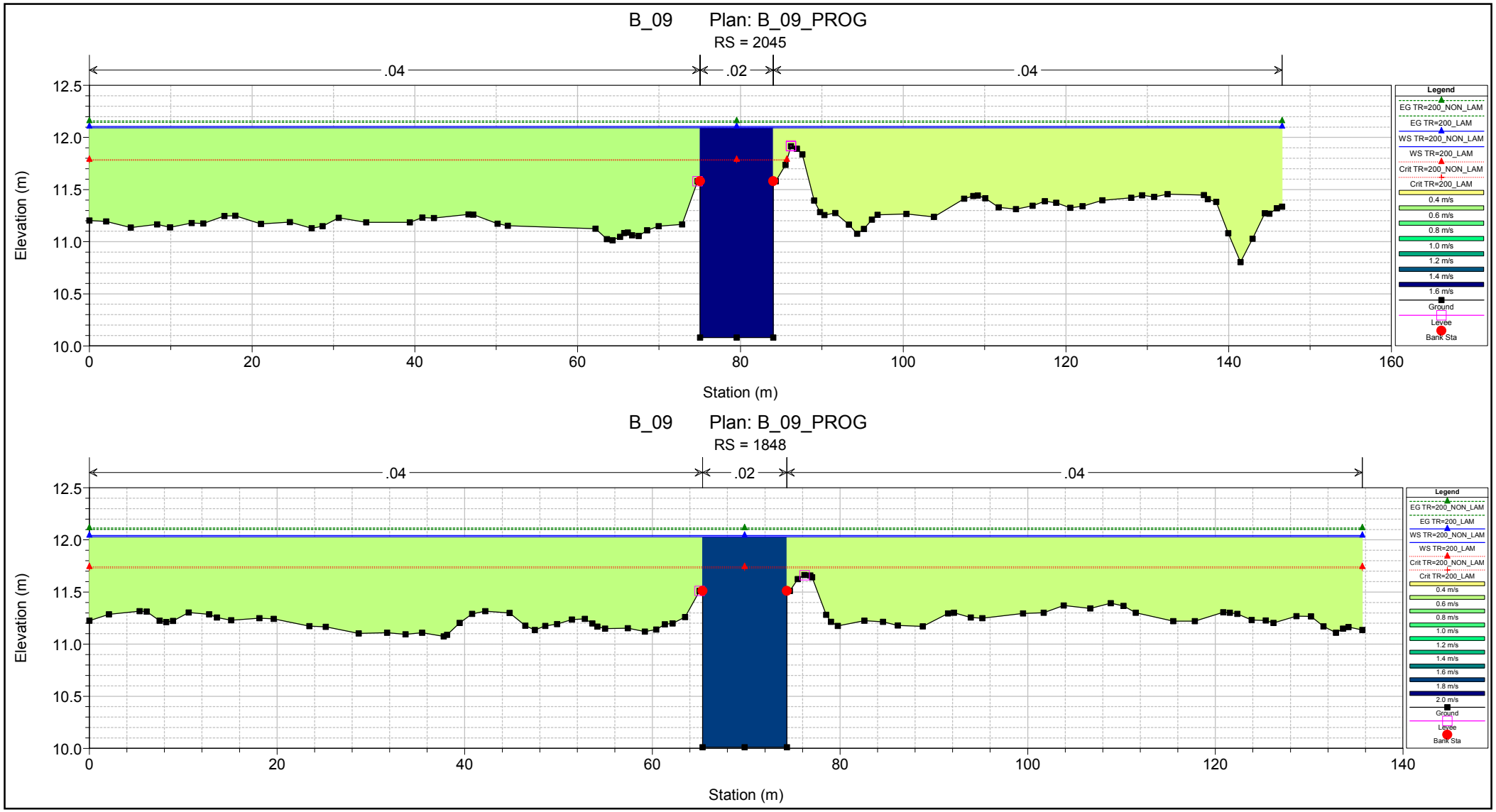

B_09 Plan: B_09_PROG
RS = 2694
.04
.02
.04
Elevation (m)
12.5
12.0
11.5
11.0
10.5
10.0
0
50
100
150
200
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 2577
.04
.02
.04
Elevation (m)
12.5
12.0
11.5
11.0
10.5
10.0
0
50
100
150
200
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Levee
Bank Sta

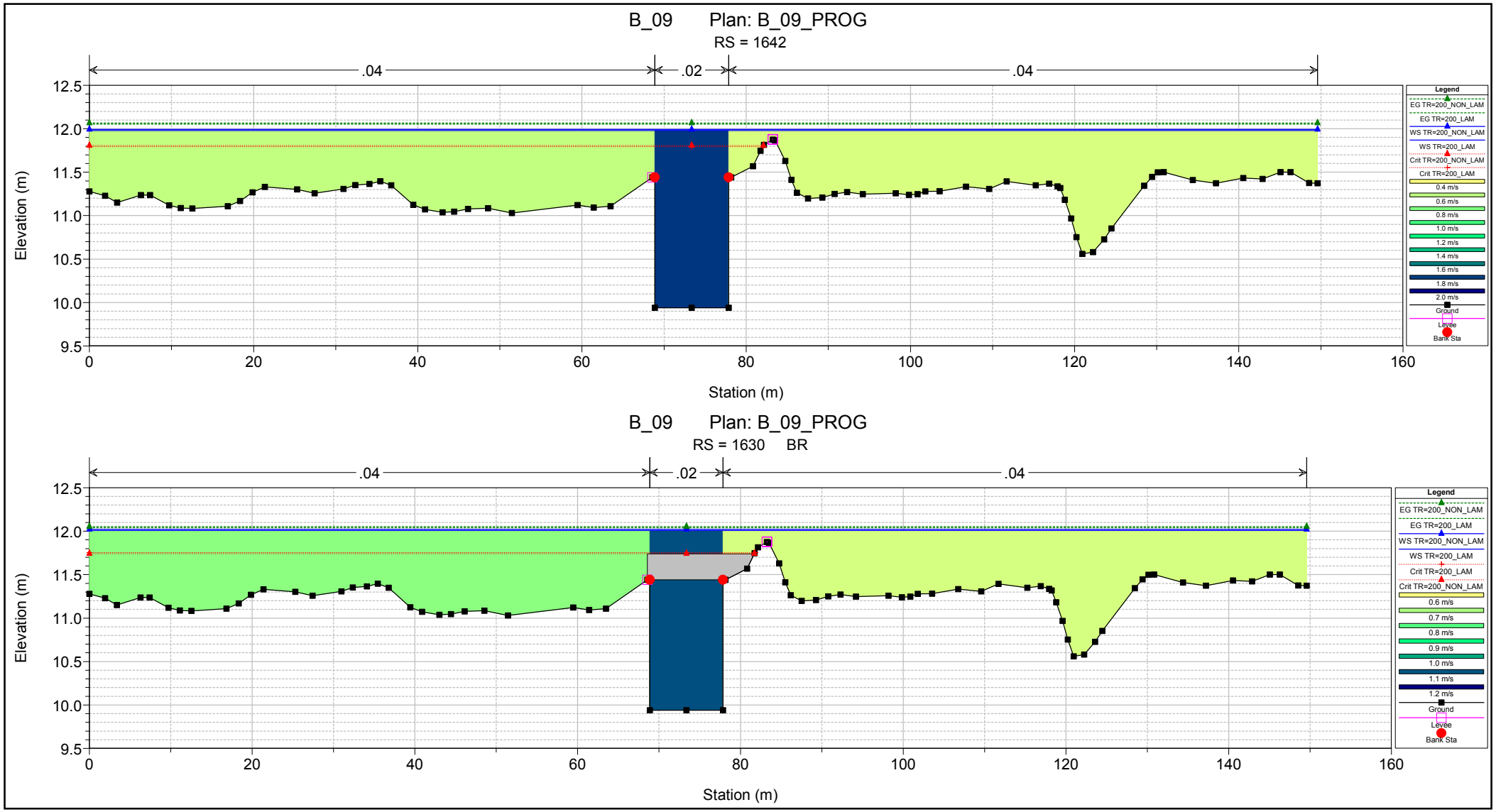

B_09 Plan: B_09_PROG
RS = 2469
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 2455 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta

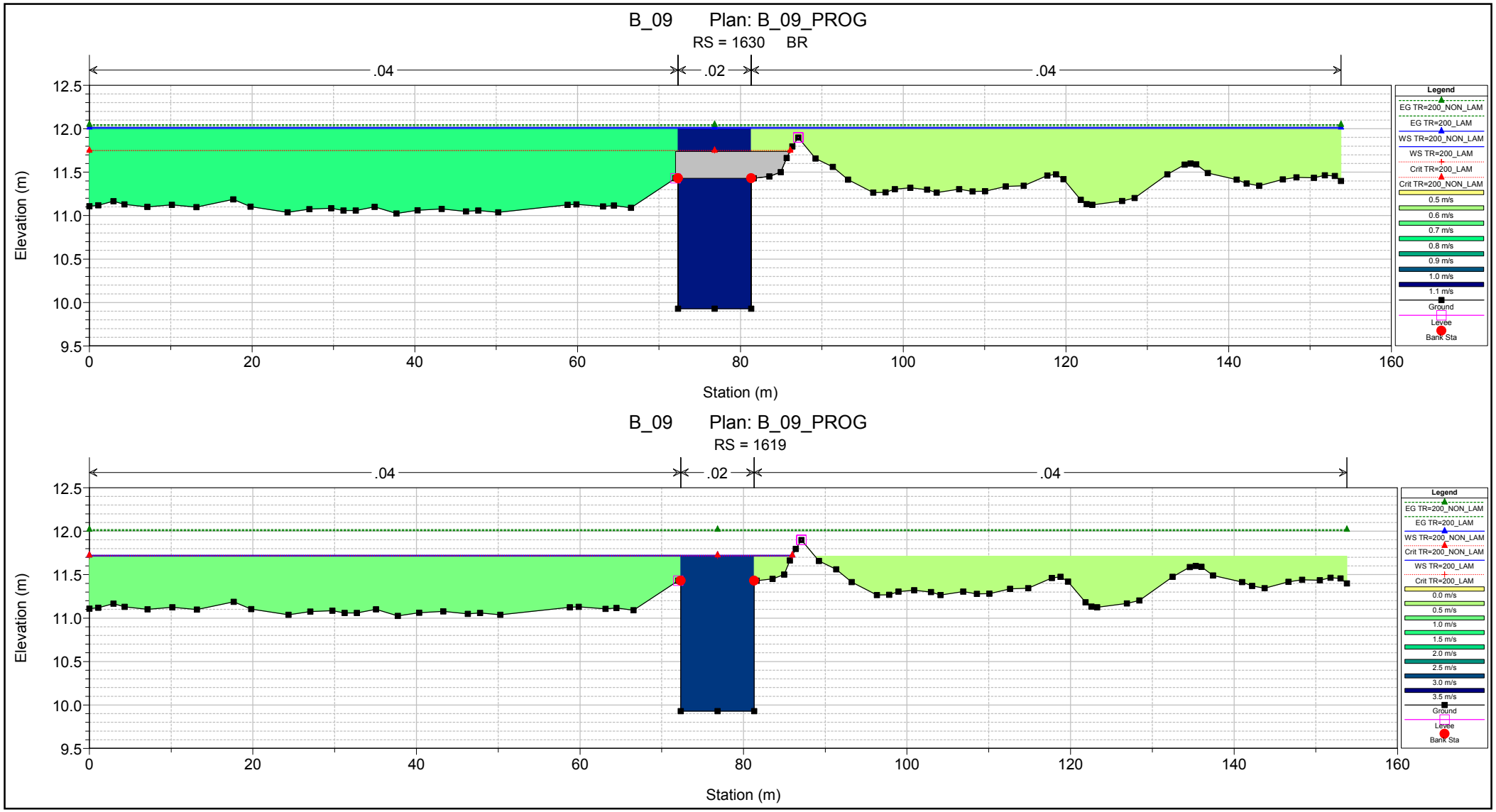

B_09 Plan: B_09_PROG
RS = 2455 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 2442
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Levee
Bank Sta

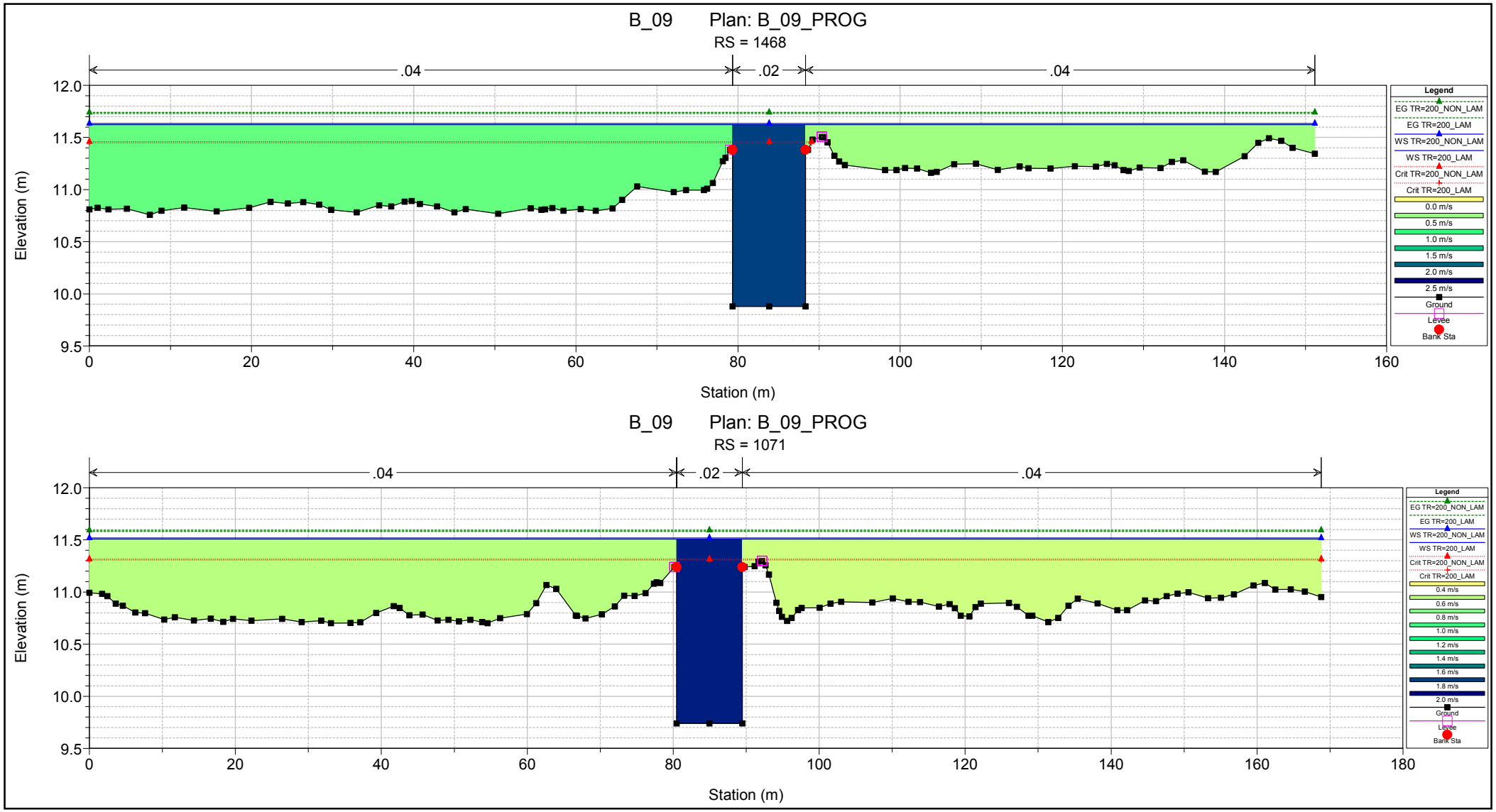

B_09 Plan: B_09_PROG
RS = 2288
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 2065
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_PROG
RS = 2055 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 2055 BR
.04
.02
.04
Elevation (m)
Station (m)


B_09 Plan: B_09_PROG
RS = 2045
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 1848
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_PROG
RS = 1642
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 1630 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
1.2 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_PROG
RS = 1630 BR
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.5 m/s
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 1619
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
3.5 m/s
Ground
Levee
Bank Sta


B_09 Plan: B_09_PROG
RS = 1468
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
Ground
Levee
Bank Sta
B_09 Plan: B_09_PROG
RS = 1071
.04
.02
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
Ground
Levee
Bank Sta

3.2.2. Corso d’acqua B.10
(Configurazione di progetto - Evento TR 200 anni)

HEC-RAS Plan: PROG River: B_10 Reach: B_10

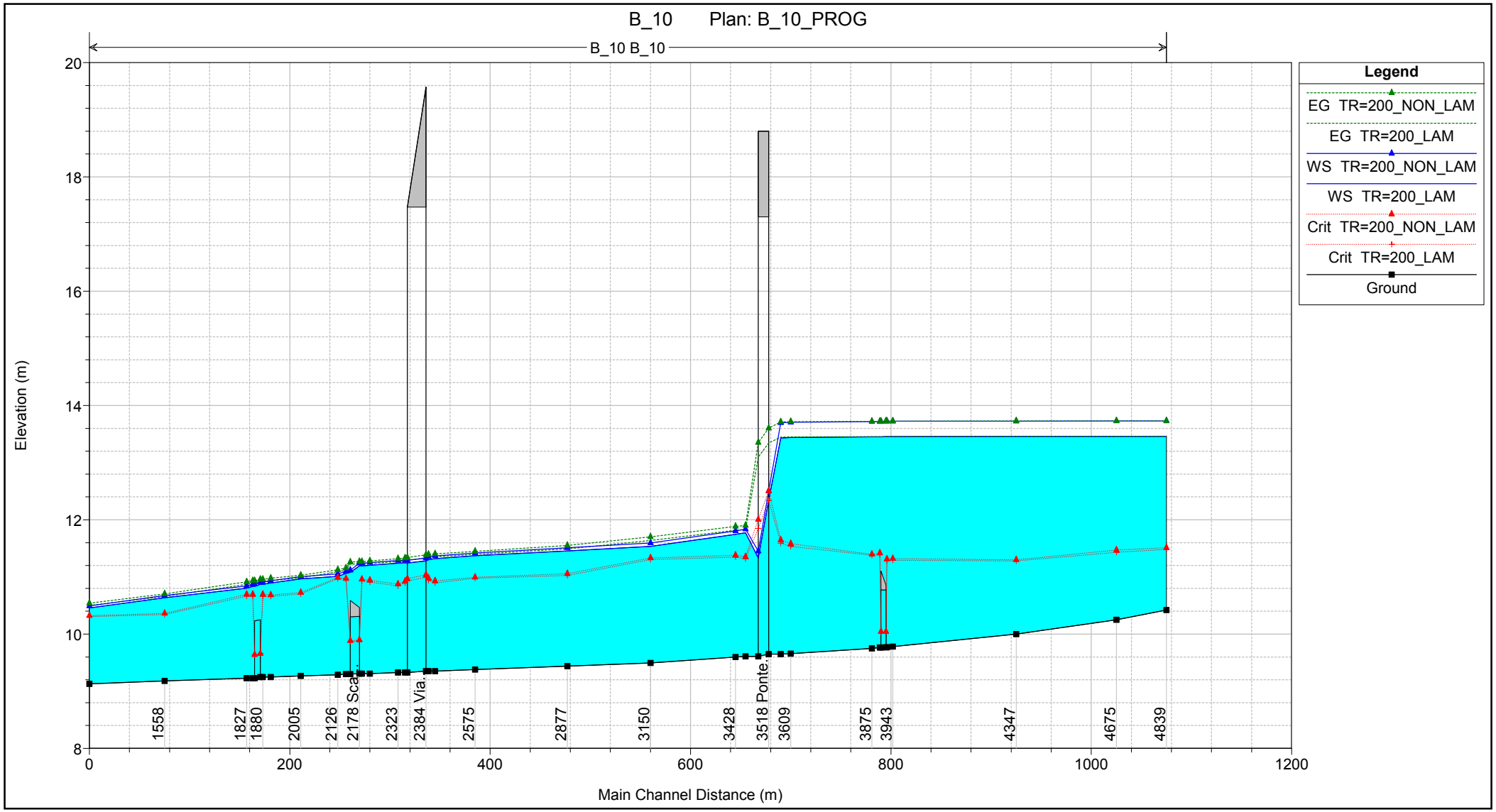
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_10	4839	TR=200_LAM	61.00	10.42	3.04	13.46	11.48	1.98	0.05	13.46	0.23	0.19	2.43	1	2.20
B_10	4839	TR=200_NON_LAM	69.00	10.42	3.31	13.73	11.51	2.22	0.04	13.73	0.23	0.20	2.70	1	2.47
B_10	4675	TR=200_LAM	61.00	10.25	3.21	13.46	11.43	2.03	0.05	13.46	0.25	0.18	2.76	0	2.32
B_10	4675	TR=200_NON_LAM	69.00	10.25	3.48	13.73	11.47	2.26	0.04	13.73	0.25	0.18	3.02	0	2.59
B_10	4347	TR=200_LAM	61.00	10.00	3.46	13.46	11.28	2.18	0.04	13.46	0.20	0.15	2.81	0	2.48
B_10	4347	TR=200_NON_LAM	69.00	10.00	3.73	13.73	11.30	2.43	0.04	13.73	0.20	0.15	3.06	0	2.75
B_10	3943	TR=200_LAM	61.00	9.78	3.67	13.45	11.29	2.16	0.05	13.46	0.28	0.21	2.81	1	2.55
B_10	3943	TR=200_NON_LAM	69.00	9.78	3.94	13.72	11.32	2.40	0.05	13.73	0.28	0.22	3.04	1	2.82
B_10	3924	TR=200_LAM	61.00	9.77	3.68	13.45	11.29	2.16	0.05	13.46	0.29	0.22	2.92	1	2.57
B_10	3924	TR=200_NON_LAM	69.00	9.77	3.95	13.72	11.31	2.41	0.05	13.73	0.30	0.23	3.17	1	2.84
B_10	3912		Culvert												
B_10	3901	TR=200_LAM	61.00	9.76	3.69	13.45	11.39	2.06	0.06	13.45	0.32	0.23	3.12	1	2.50
B_10	3901	TR=200_NON_LAM	69.00	9.76	3.95	13.72	11.42	2.30	0.06	13.72	0.33	0.24	3.38	1	2.76
B_10	3875	TR=200_LAM	61.00	9.75	3.70	13.45	11.38	2.07	0.06	13.45	0.32	0.24	2.83	1	2.48
B_10	3875	TR=200_NON_LAM	69.00	9.75	3.97	13.72	11.40	2.32	0.05	13.72	0.32	0.24	3.07	1	2.75
B_10	3609	TR=200_LAM	61.00	9.66	3.78	13.44	11.53	1.91	0.11	13.45	0.61	0.45	2.87	3	2.43
B_10	3609	TR=200_NON_LAM	69.00	9.66	4.04	13.70	11.58	2.12	0.11	13.72	0.62	0.46	3.11	3	2.68
B_10	3576	TR=200_LAM	61.00	9.65	3.78	13.43	11.59	1.84	0.13	13.45	0.75	0.55	2.93	4	2.36
B_10	3576	TR=200_NON_LAM	69.00	9.65	4.05	13.70	11.64	2.06	0.13	13.72	0.76	0.56	3.17	4	2.60
B_10	3518		Bridge												
B_10	3461	TR=200_LAM	61.00	9.61	2.16	11.77	11.32	0.45	0.35	11.83	1.43	0.92	1.64	18	0.99
B_10	3461	TR=200_NON_LAM	69.00	9.61	2.23	11.84	11.35	0.49	0.36	11.90	1.51	0.98	1.70	20	1.05
B_10	3428	TR=200_LAM	61.00	9.60	2.14	11.74	11.35	0.39	0.39	11.82	1.62	1.05	1.58	24	0.96
B_10	3428	TR=200_NON_LAM	69.00	9.60	2.20	11.80	11.38	0.42	0.41	11.88	1.71	1.12	1.63	27	1.02
B_10	3150	TR=200_LAM	61.00	9.50	2.04	11.54	11.31	0.23	0.52	11.64	1.93	1.15	1.33	36	0.64

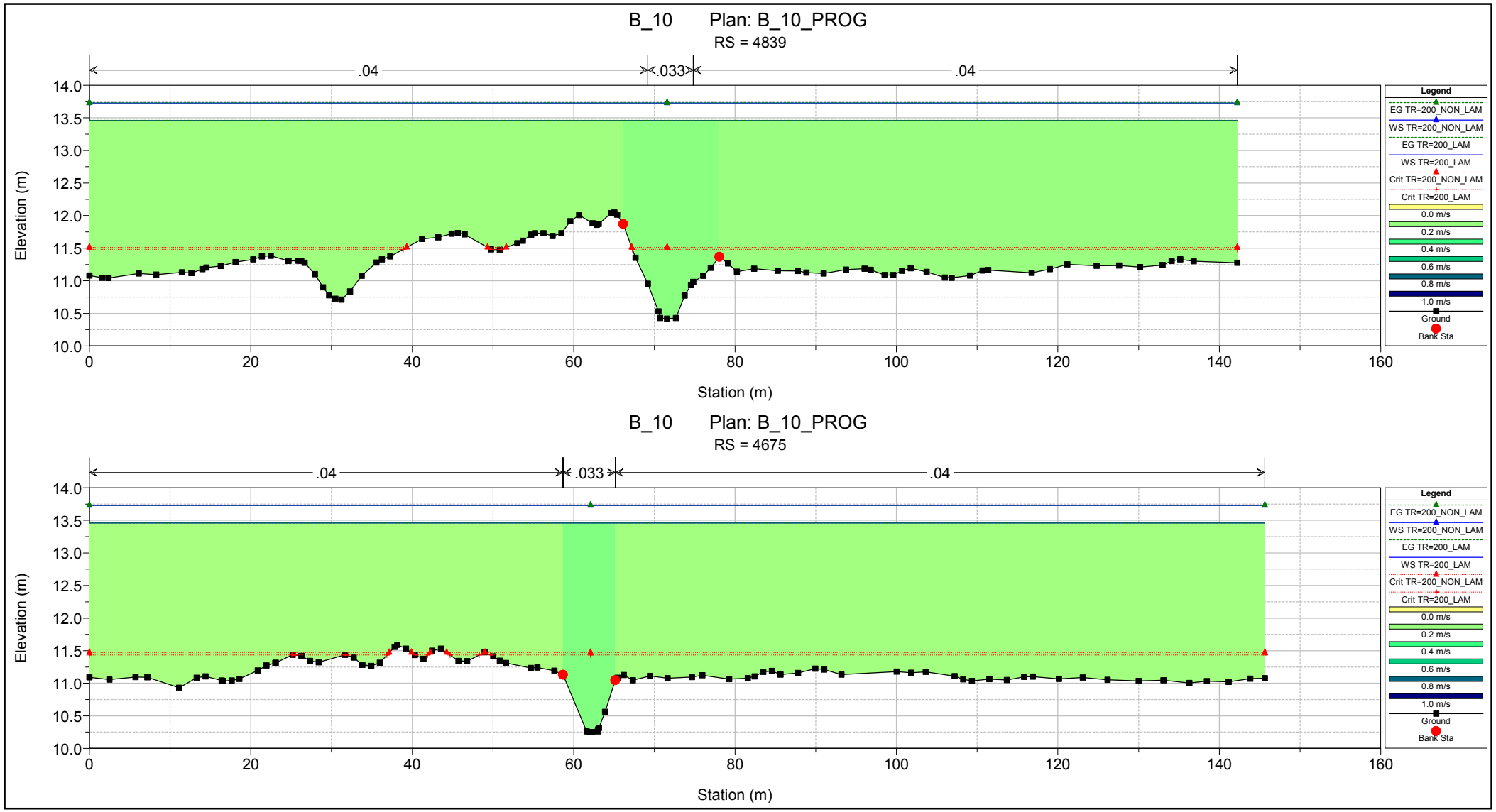
HEC-RAS Plan: PROG River: B_10 Reach: B_10 (Continued)

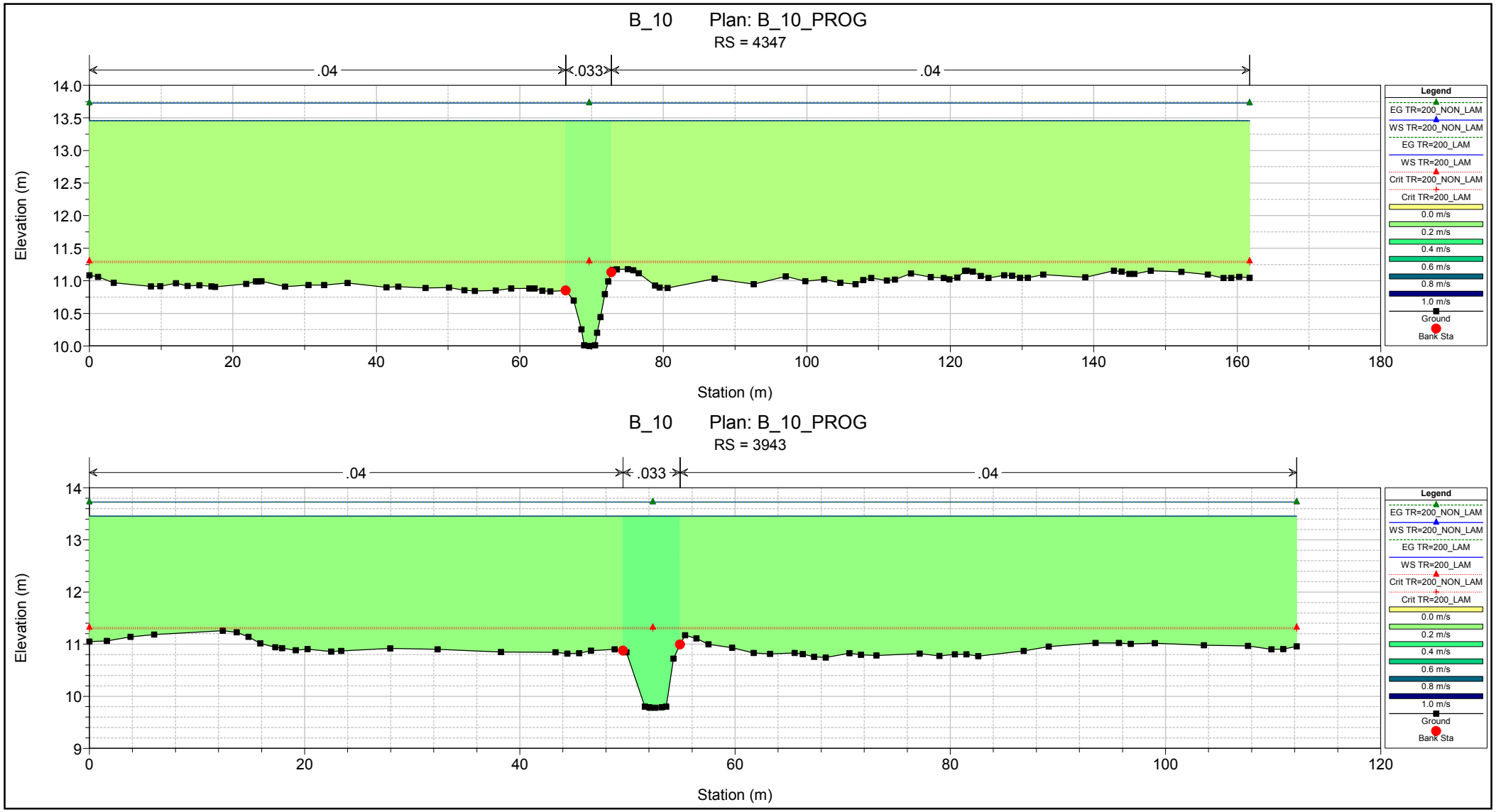
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_10	3150	TR=200_NON_LAM	69.00	9.50	2.10	11.59	11.33	0.26	0.52	11.70	1.98	1.19	1.39	38	0.70
B_10	2877	TR=200_LAM	61.00	9.44	2.02	11.46	11.03	0.43	0.31	11.49	1.19	0.75	1.43	14	0.88
B_10	2877	TR=200_NON_LAM	69.00	9.44	2.07	11.51	11.06	0.45	0.32	11.55	1.26	0.80	1.48	15	0.94
B_10	2575	TR=200_LAM	61.00	9.38	1.99	11.37	10.98	0.39	0.30	11.40	1.07	0.68	1.12	12	0.73
B_10	2575	TR=200_NON_LAM	69.00	9.38	2.04	11.42	10.99	0.43	0.31	11.45	1.11	0.72	1.17	13	0.78
B_10	2444	TR=200_LAM	61.00	9.35	1.97	11.32	10.90	0.42	0.31	11.35	1.09	0.71	1.10	12	0.63
B_10	2444	TR=200_NON_LAM	69.00	9.35	2.02	11.37	10.93	0.44	0.32	11.40	1.14	0.74	1.14	13	0.67
B_10	2423	TR=200_LAM	61.00	9.35	1.96	11.31	10.94	0.37	0.36	11.34	1.20	0.76	1.01	15	0.56
B_10	2423	TR=200_NON_LAM	69.00	9.35	2.00	11.35	10.98	0.37	0.37	11.39	1.24	0.79	1.05	16	0.61
B_10	2384		Bridge												
B_10	2346	TR=200_LAM	61.00	9.33	1.92	11.25	10.89	0.36	0.34	11.28	1.13	0.75	0.95	14	0.52
B_10	2346	TR=200_NON_LAM	69.00	9.33	1.97	11.30	10.92	0.38	0.34	11.33	1.15	0.77	0.95	14	0.57
B_10	2323	TR=200_LAM	61.00	9.33	1.91	11.24	10.84	0.40	0.32	11.27	1.07	0.71	0.98	12	0.53
B_10	2323	TR=200_NON_LAM	69.00	9.33	1.96	11.29	10.87	0.42	0.33	11.32	1.10	0.74	1.00	13	0.57
B_10	2231	TR=200_LAM	61.00	9.31	1.90	11.21	10.91	0.30	0.35	11.23	1.15	0.68	0.97	14	0.54
B_10	2231	TR=200_NON_LAM	69.00	9.31	1.94	11.25	10.94	0.31	0.35	11.28	1.18	0.70	1.00	15	0.57
B_10	2205	TR=200_LAM	61.00	9.31	1.88	11.19	10.93	0.26	0.34	11.22	1.17	0.65	1.11	14	0.56
B_10	2205	TR=200_NON_LAM	69.00	9.31	1.93	11.24	10.96	0.28	0.34	11.27	1.21	0.68	1.15	15	0.60
B_10	2178		Culvert												
B_10	2152	TR=200_LAM	61.00	9.30	1.76	11.06	10.96	0.10	0.50	11.12	1.65	0.83	1.04	29	0.41
B_10	2152	TR=200_NON_LAM	69.00	9.30	1.80	11.10	10.97	0.13	0.51	11.16	1.69	0.86	1.07	30	0.44
B_10	2126	TR=200_LAM	61.00	9.29	1.72	11.01	10.97	0.04	0.67	11.09	2.03	0.98	0.83	47	0.33
B_10	2126	TR=200_NON_LAM	69.00	9.29	1.76	11.05	10.99	0.06	0.65	11.13	1.98	0.98	0.86	44	0.35
B_10	2005	TR=200_LAM	61.00	9.27	1.70	10.96	10.70	0.26	0.32	10.98	1.06	0.57	0.99	12	0.50
B_10	2005	TR=200_NON_LAM	69.00	9.27	1.74	11.01	10.73	0.28	0.32	11.03	1.08	0.60	1.03	12	0.54

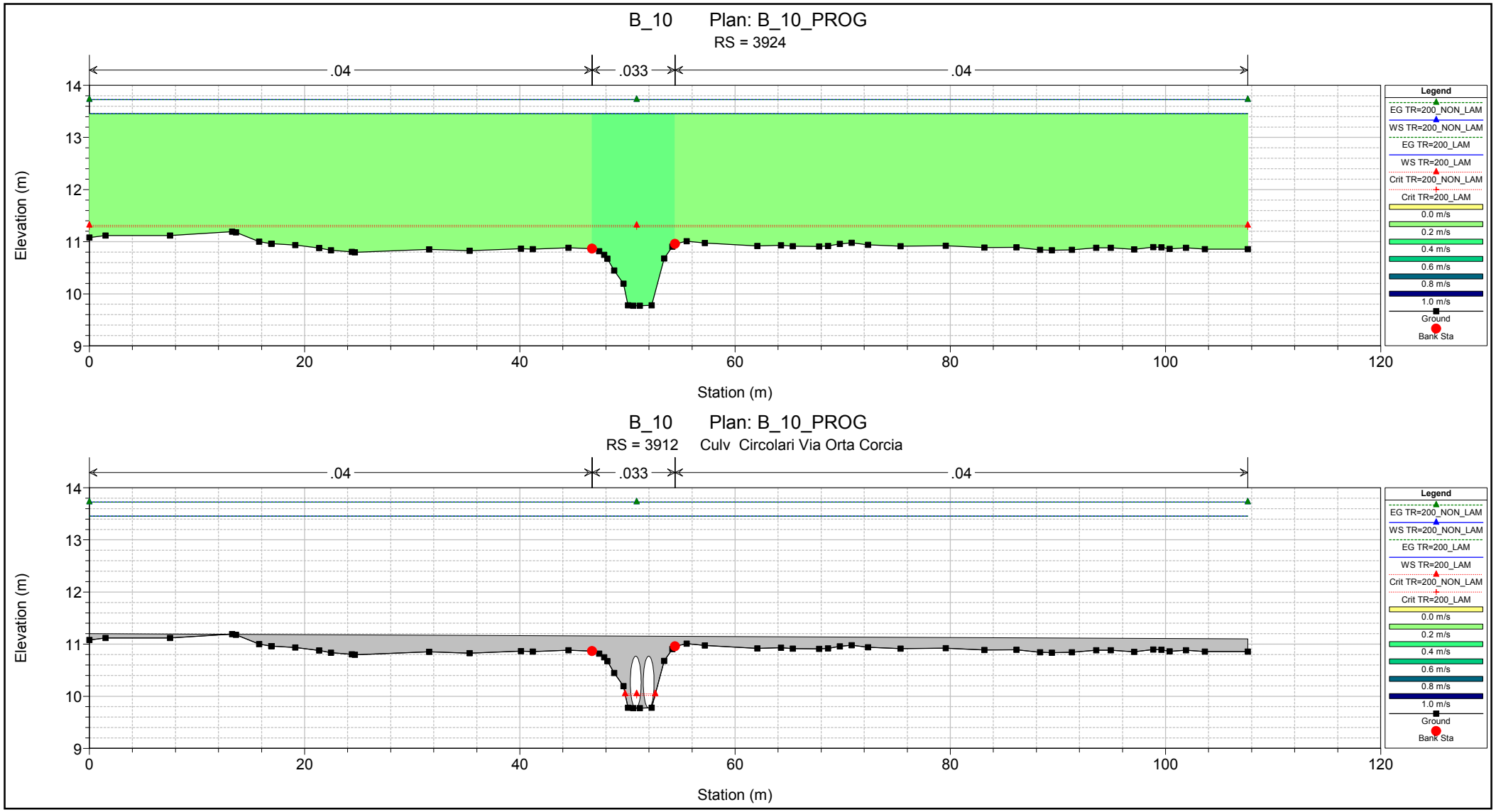
HEC-RAS Plan: PROG River: B_10 Reach: B_10 (Continued)

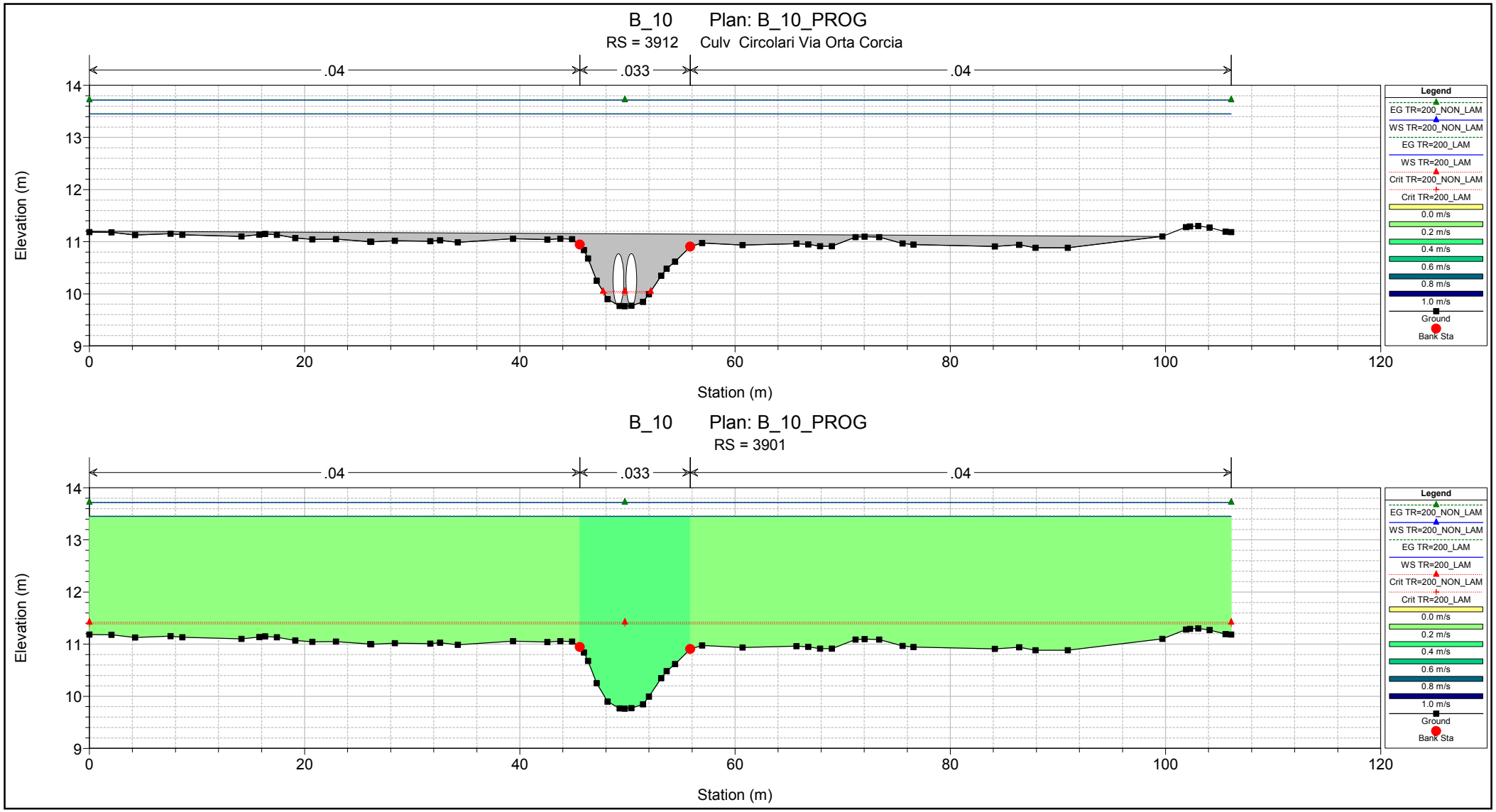
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_10	1906	TR=200_LAM	61.00	9.25	1.64	10.89	10.66	0.23	0.43	10.93	1.34	0.83	0.89	20	0.55
B_10	1906	TR=200_NON_LAM	69.00	9.25	1.68	10.93	10.68	0.25	0.44	10.98	1.39	0.88	0.92	21	0.59
B_10	1880	TR=200_LAM	61.00	9.25	1.62	10.87	10.66	0.21	0.43	10.91	1.42	0.84	0.98	22	0.55
B_10	1880	TR=200_NON_LAM	69.00	9.25	1.66	10.91	10.69	0.22	0.44	10.96	1.48	0.89	1.01	23	0.59
B_10	1863		Culvert												
B_10	1847	TR=200_LAM	61.00	9.23	1.60	10.83	10.67	0.16	0.49	10.89	1.62	0.92	0.98	28	0.47
B_10	1847	TR=200_NON_LAM	69.00	9.23	1.64	10.87	10.70	0.17	0.50	10.94	1.67	0.96	1.01	30	0.49
B_10	1827	TR=200_LAM	61.00	9.23	1.57	10.80	10.67	0.13	0.57	10.87	1.67	1.01	0.81	32	0.40
B_10	1827	TR=200_NON_LAM	69.00	9.23	1.61	10.84	10.70	0.14	0.57	10.91	1.70	1.04	0.84	33	0.43
B_10	1558	TR=200_LAM	61.00	9.18	1.46	10.64	10.34	0.30	0.31	10.66	0.94	0.67	0.92	14	0.54
B_10	1558	TR=200_NON_LAM	69.00	9.18	1.50	10.68	10.36	0.32	0.31	10.70	0.98	0.71	0.95	15	0.57
B_10	1312	TR=200_LAM	61.00	9.13	1.33	10.46	10.30	0.16	0.50	10.50	1.45	0.84	0.81	24	0.45
B_10	1312	TR=200_NON_LAM	69.00	9.13	1.36	10.49	10.32	0.17	0.50	10.54	1.49	0.88	0.85	25	0.49

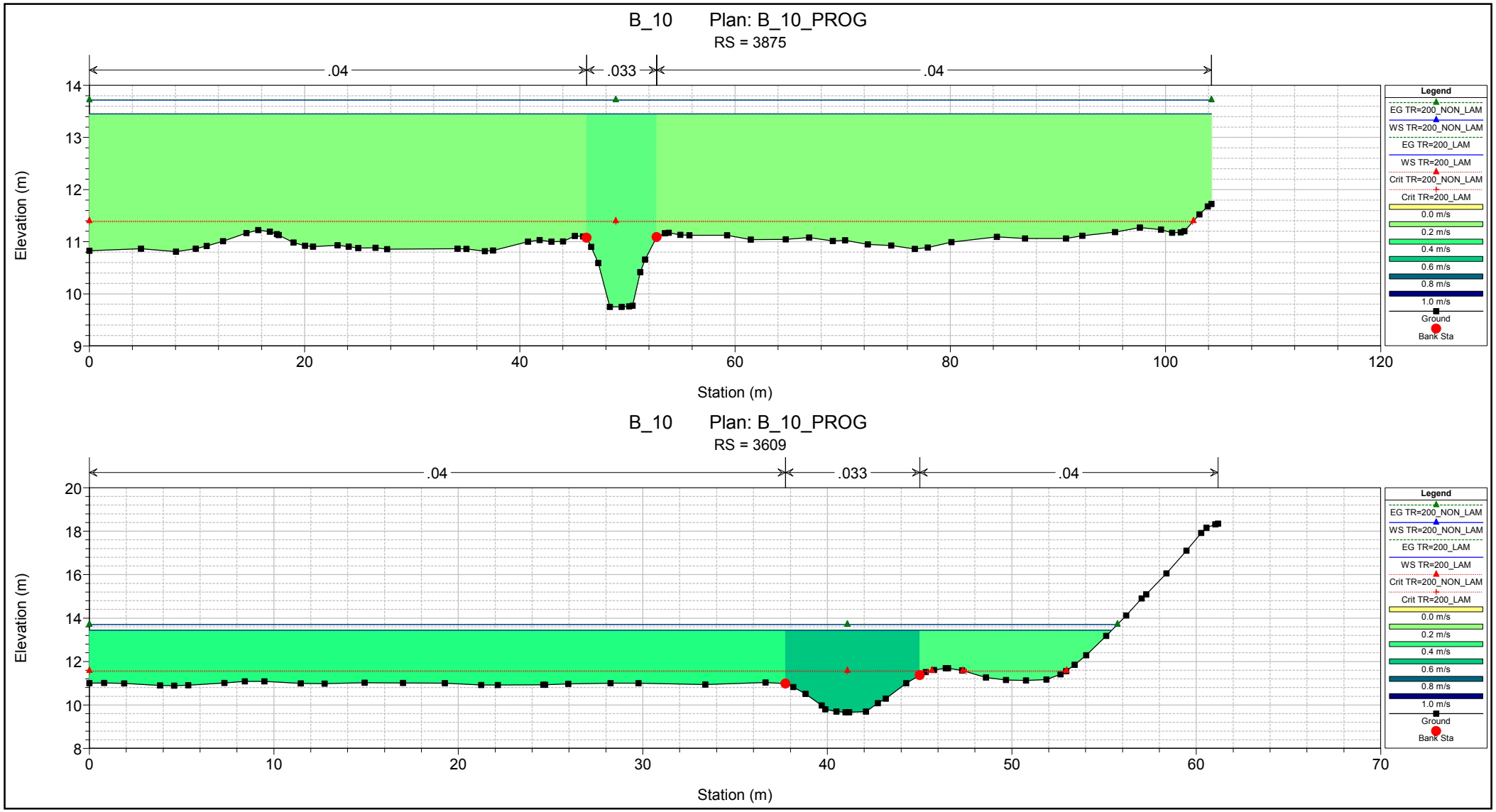

B_10 Plan: B_10_PROG
B_10 B_10
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
Ground
Elevation (m)
Main Channel Distance (m)
20
18
16
14
12
10
8
0
200
400
600
800
1000
1200
1558
1827
1880
2005
2126
2178 Sca
2323
2384 Via
2575
2877
3150
3428
3518 Ponte
3609
3875
3943
4347
4675
4839

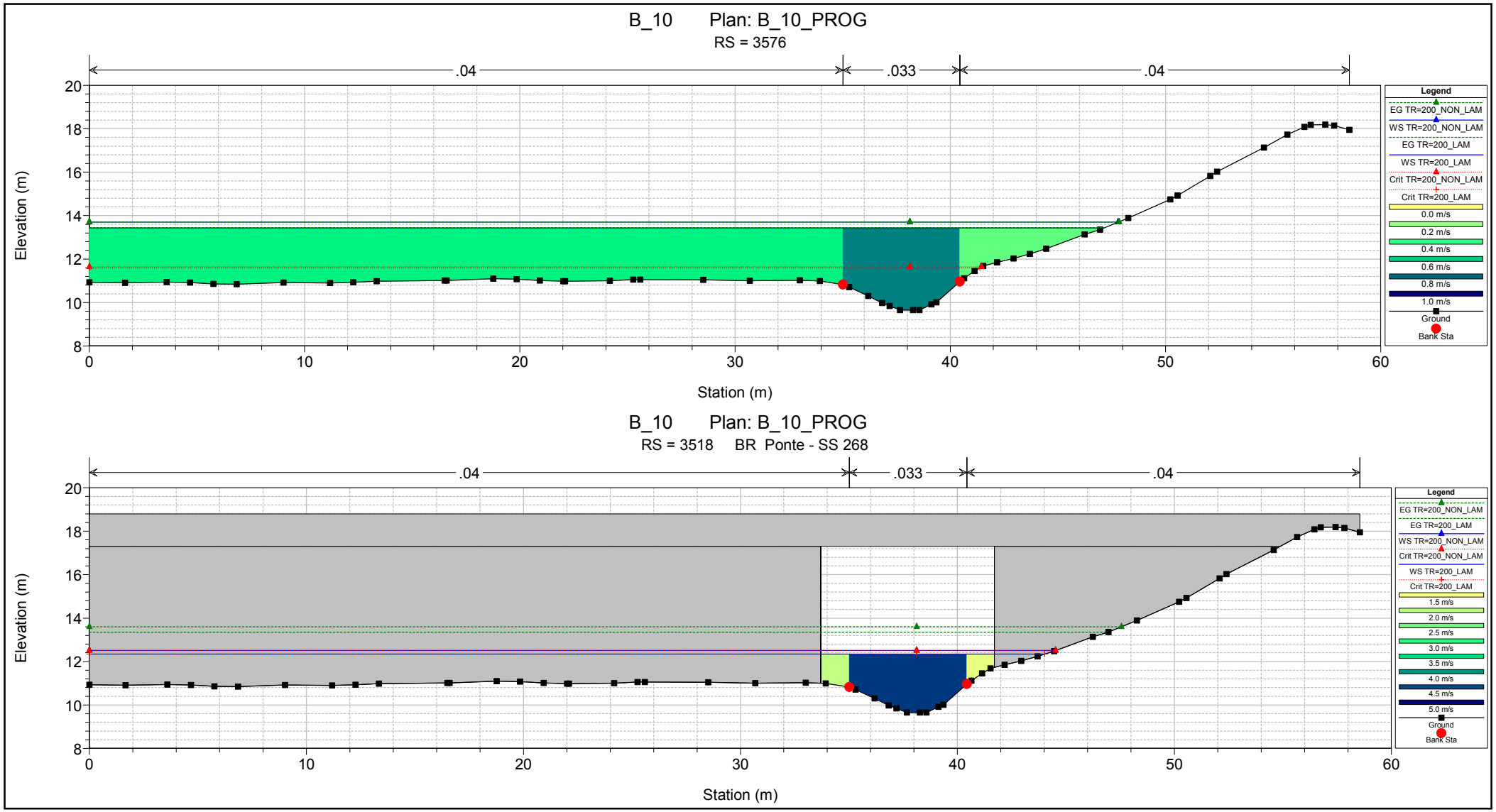

B_10 Plan: B_10_PROG
RS = 4839
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 4675
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

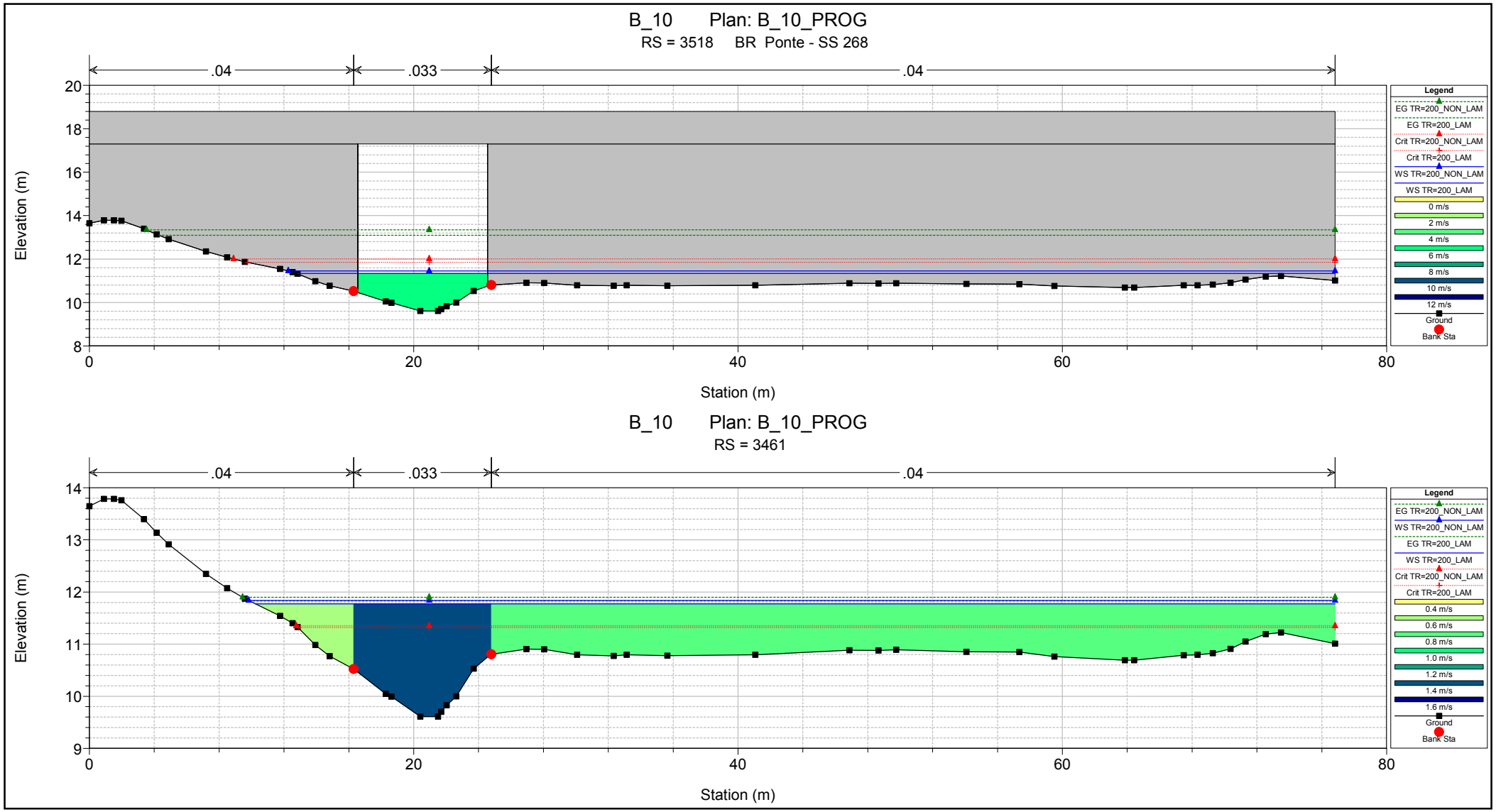

B_10 Plan: B_10_PROG
RS = 4347
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 3943
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

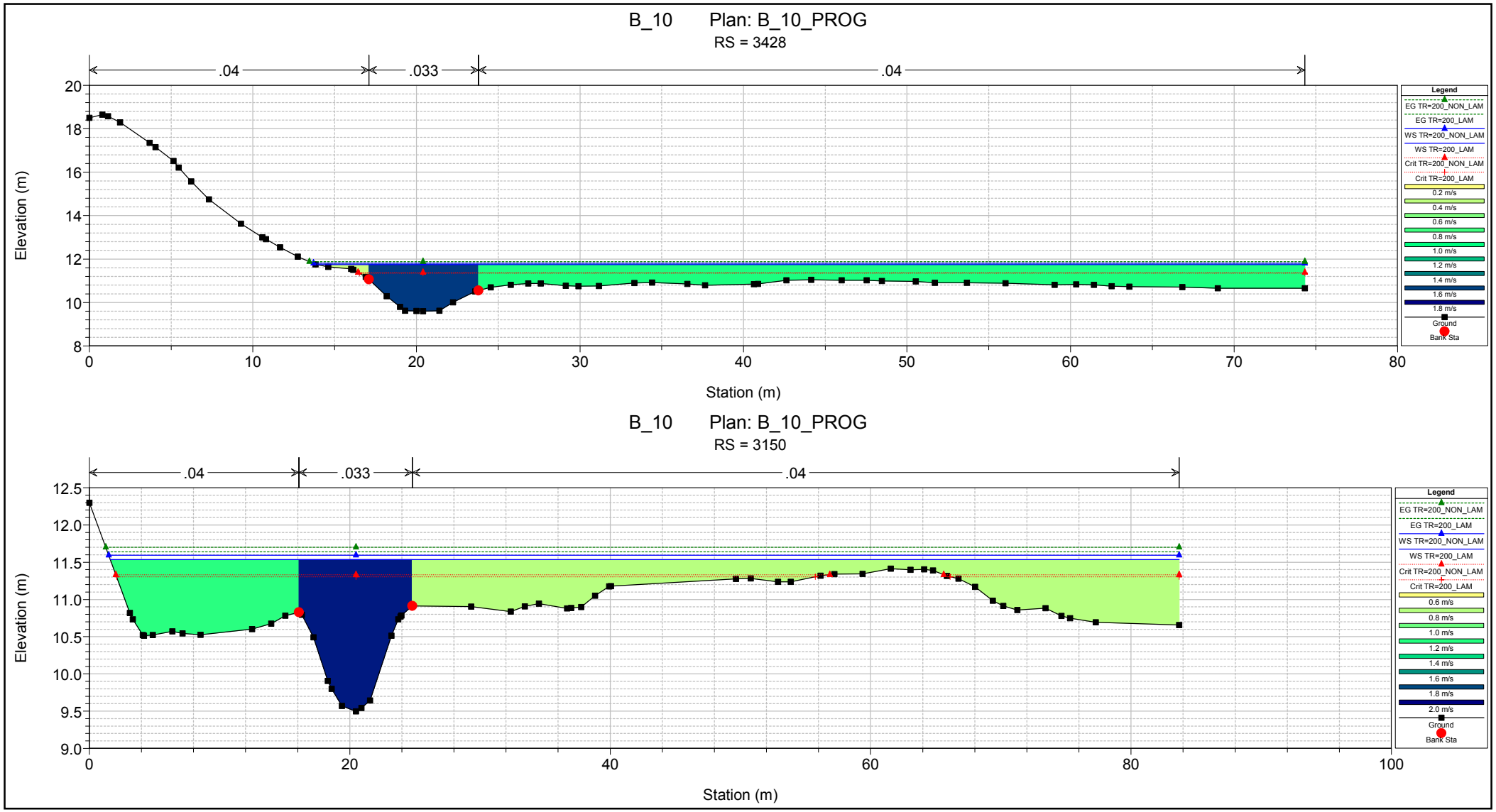

B_10 Plan: B_10_PROG
RS = 3924
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 3912 Culv Circolari Via Orta Corcia
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

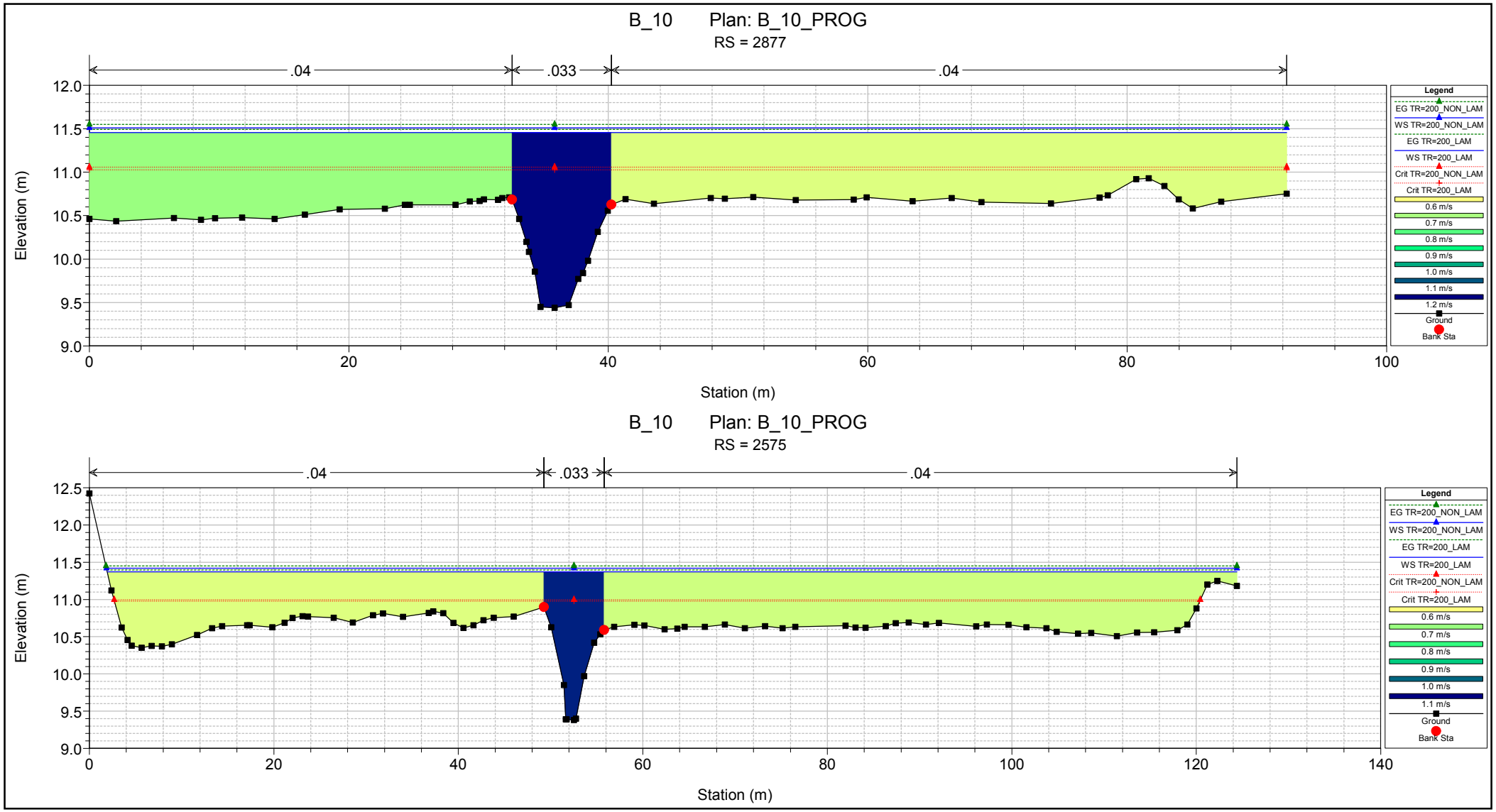

B_10 Plan: B_10_PROG
RS = 3912 Culv Circolari Via Orta Corcia
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 3901
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

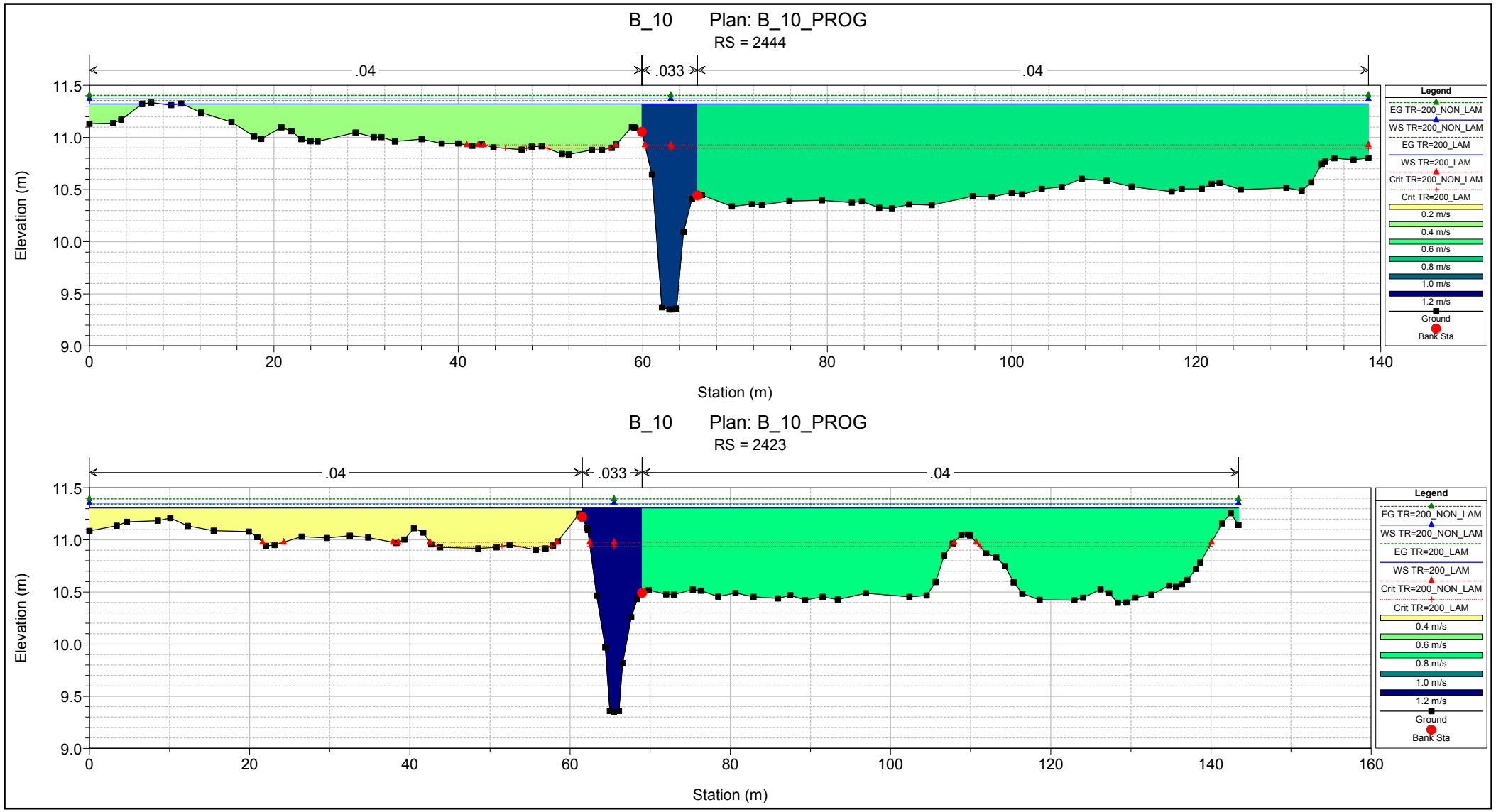

B_10 Plan: B_10_PROG
RS = 3875
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 3609
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

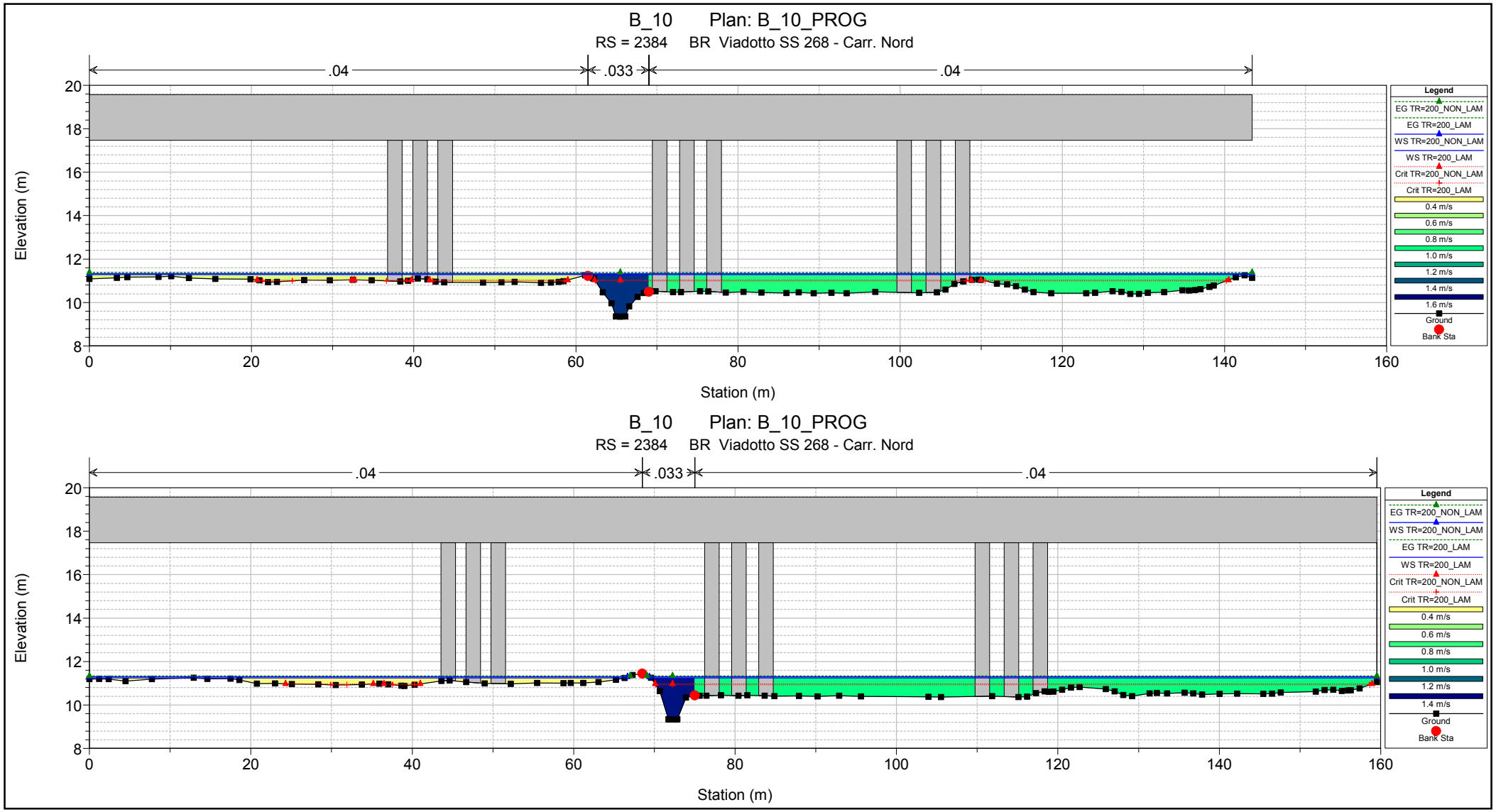

B_10 Plan: B_10_PROG
RS = 3576
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 3518 BR Ponte - SS 268
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
3.5 m/s
4.0 m/s
4.5 m/s
5.0 m/s
Ground
Bank Sta

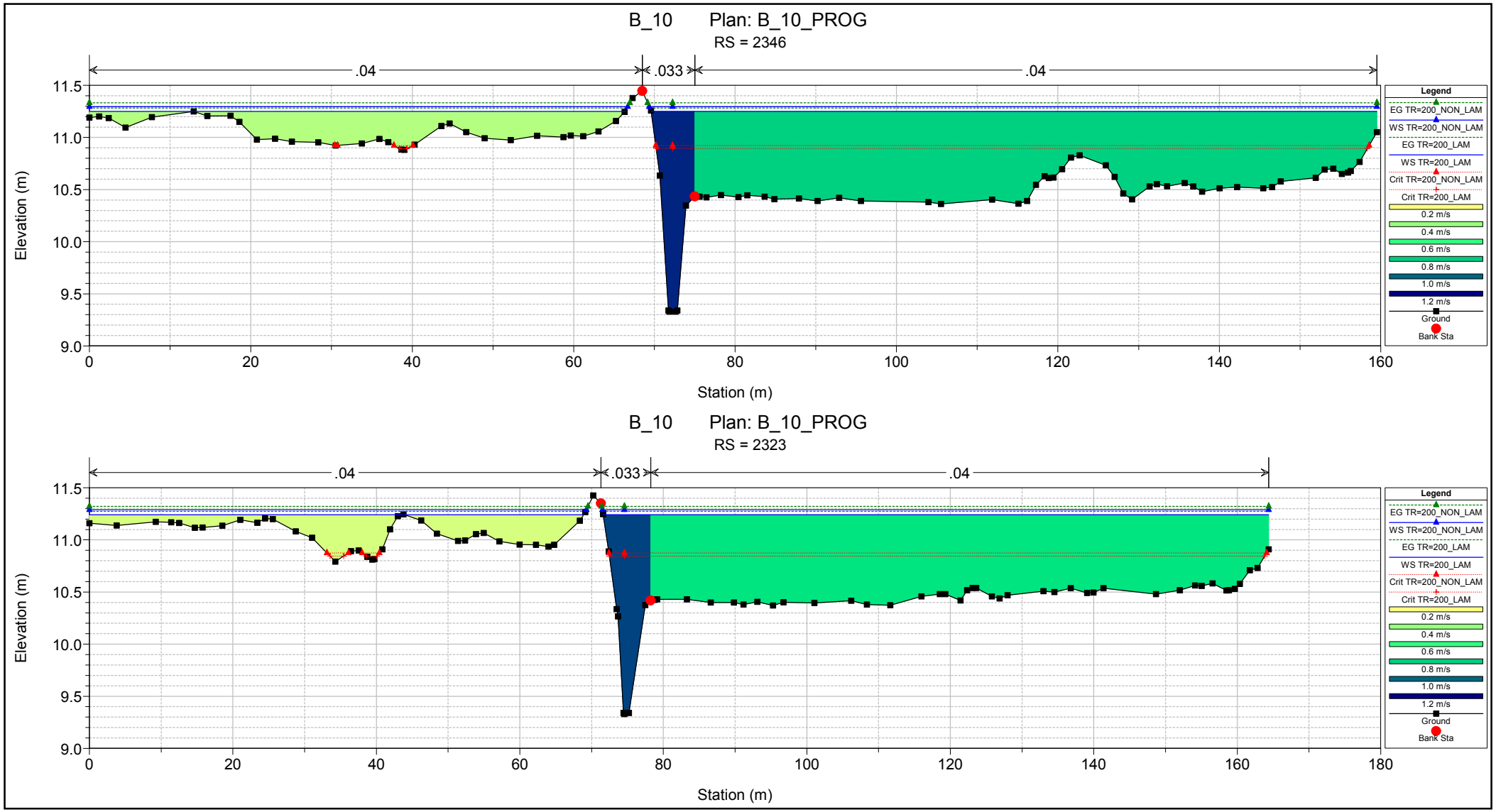

B_10 Plan: B_10_PROG
RS = 3518 BR Ponte - SS 268
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
0 m/s
2 m/s
4 m/s
6 m/s
8 m/s
10 m/s
12 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 3461
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Bank Sta

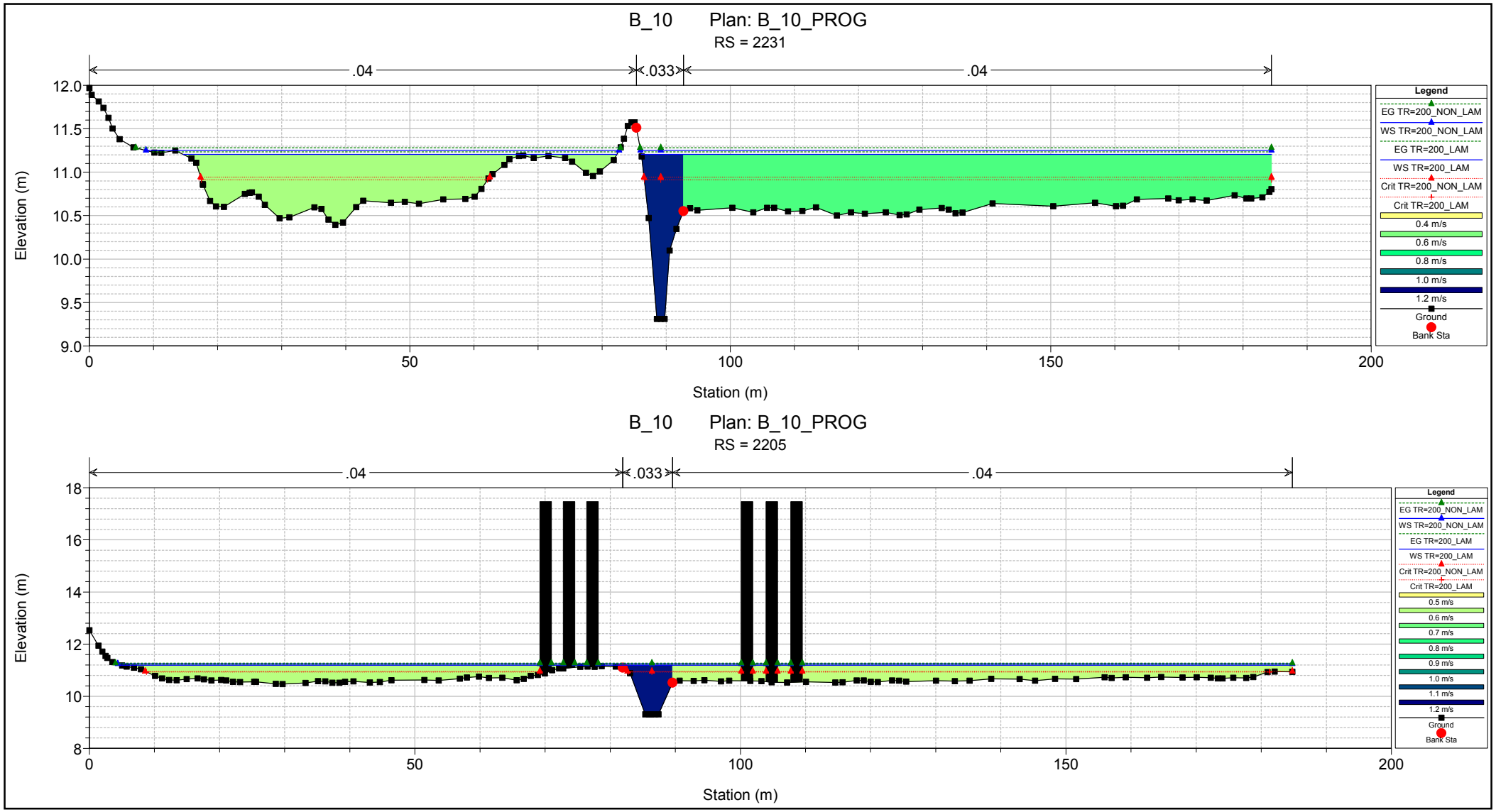

B_10 Plan: B_10_PROG
RS = 3428
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 3150
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
Ground
Bank Sta

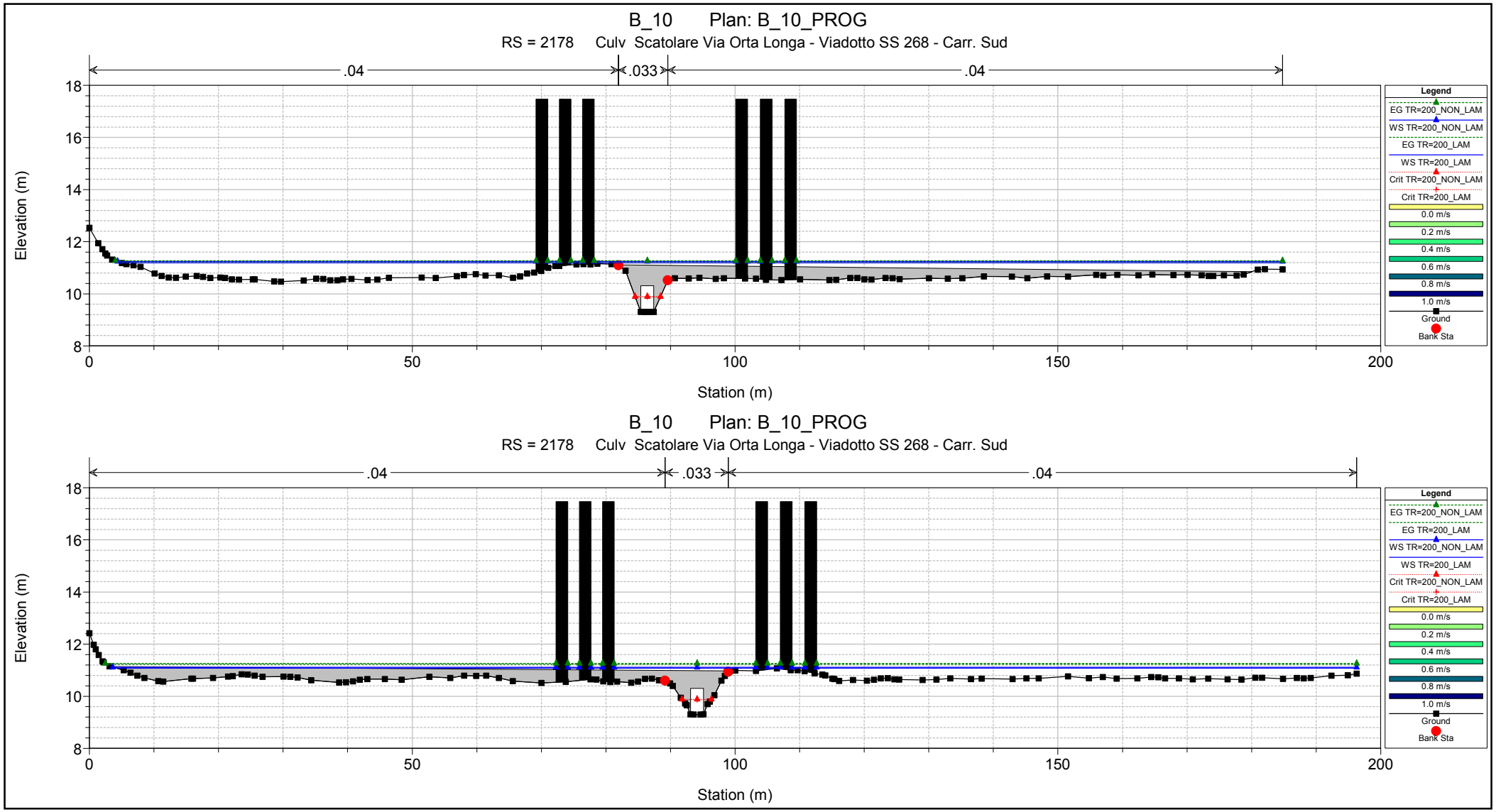

B_10 Plan: B_10_PROG
RS = 2877
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
1.2 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 2575
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
Ground
Bank Sta

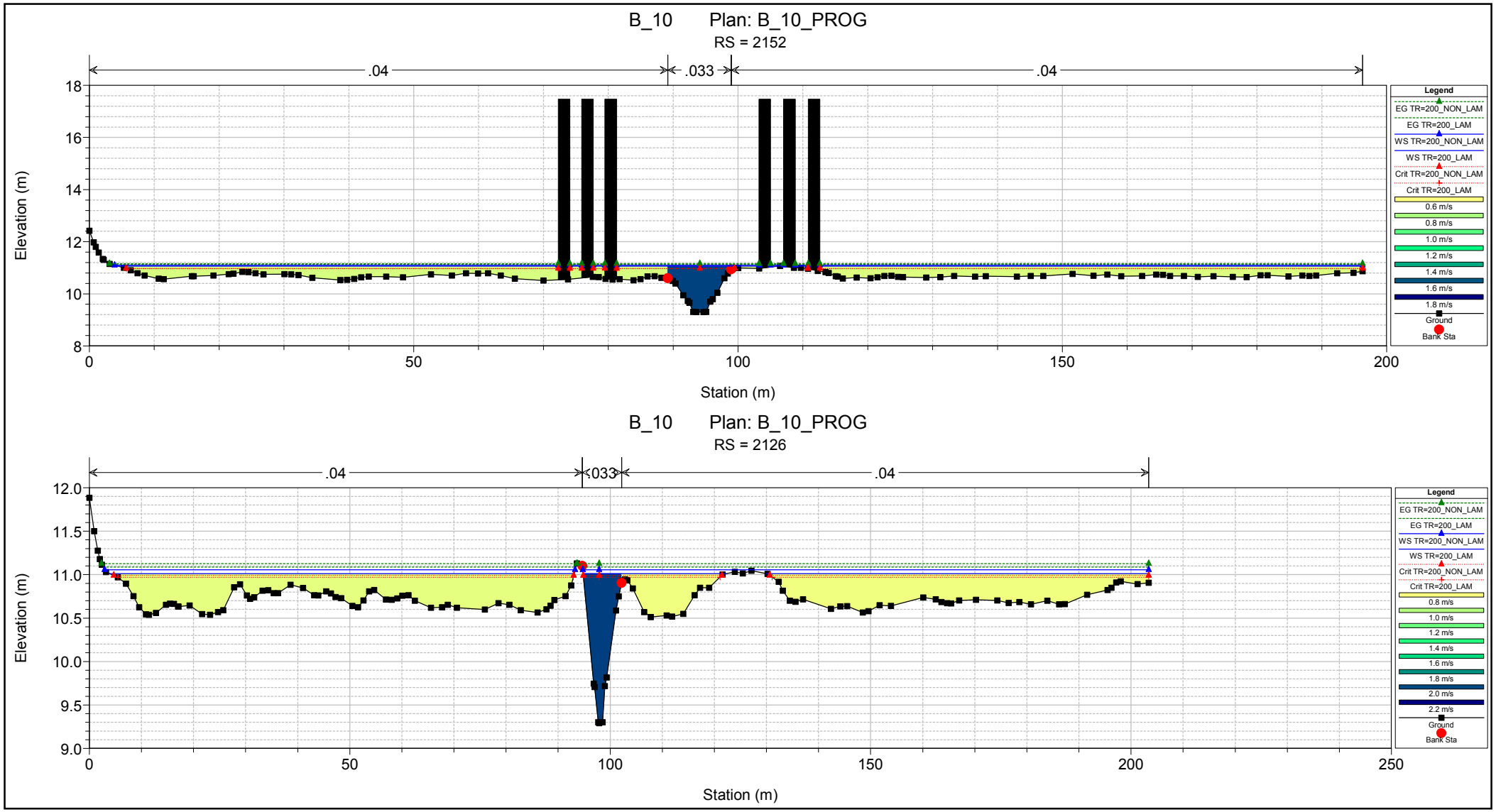

B_10 Plan: B_10_PROG
RS = 2444
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 2423
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta

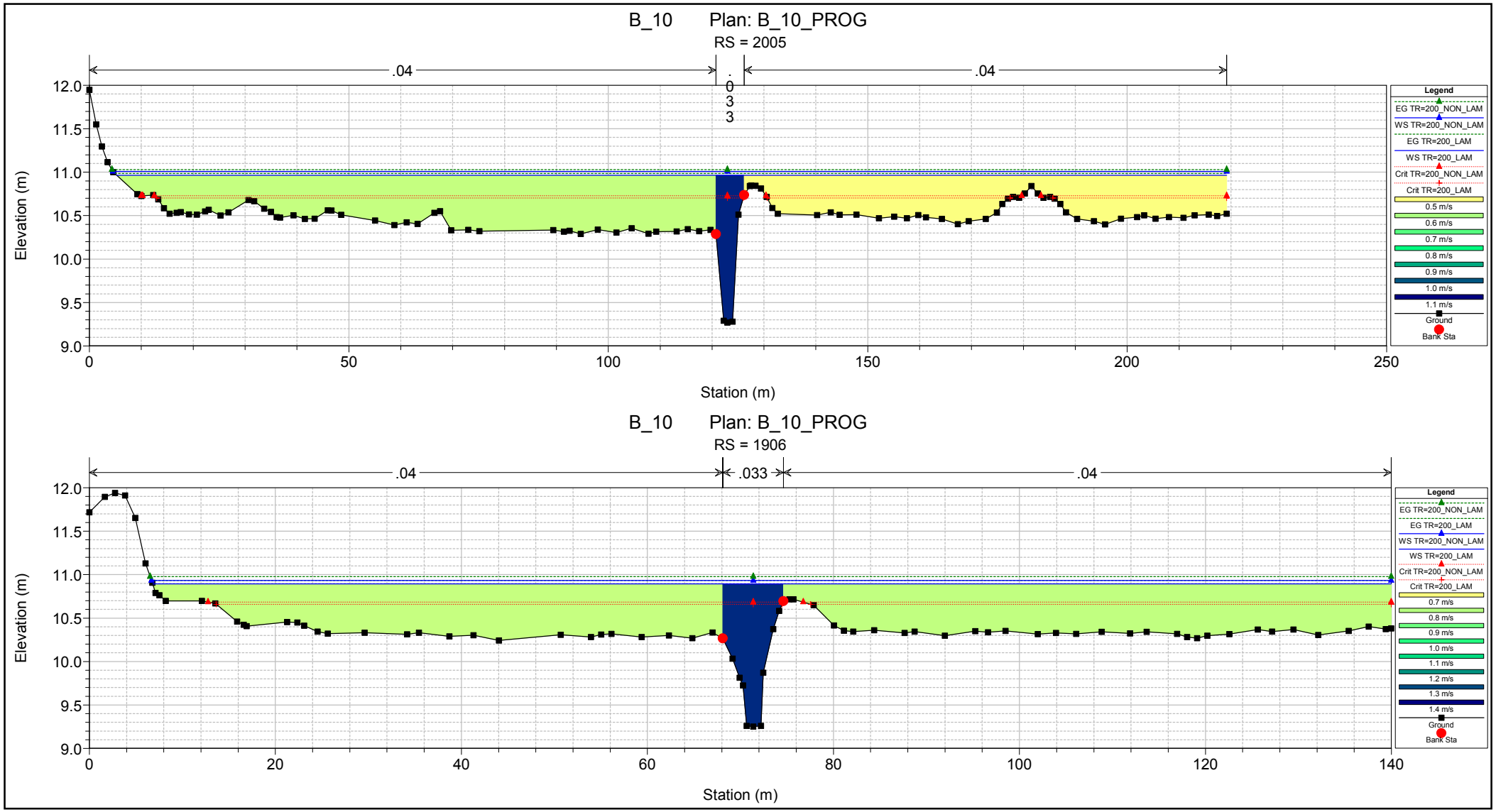

B_10 Plan: B_10_PROG
RS = 2384 BR Viadotto SS 268 - Carr. Nord
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 2384 BR Viadotto SS 268 - Carr. Nord
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
Ground
Bank Sta

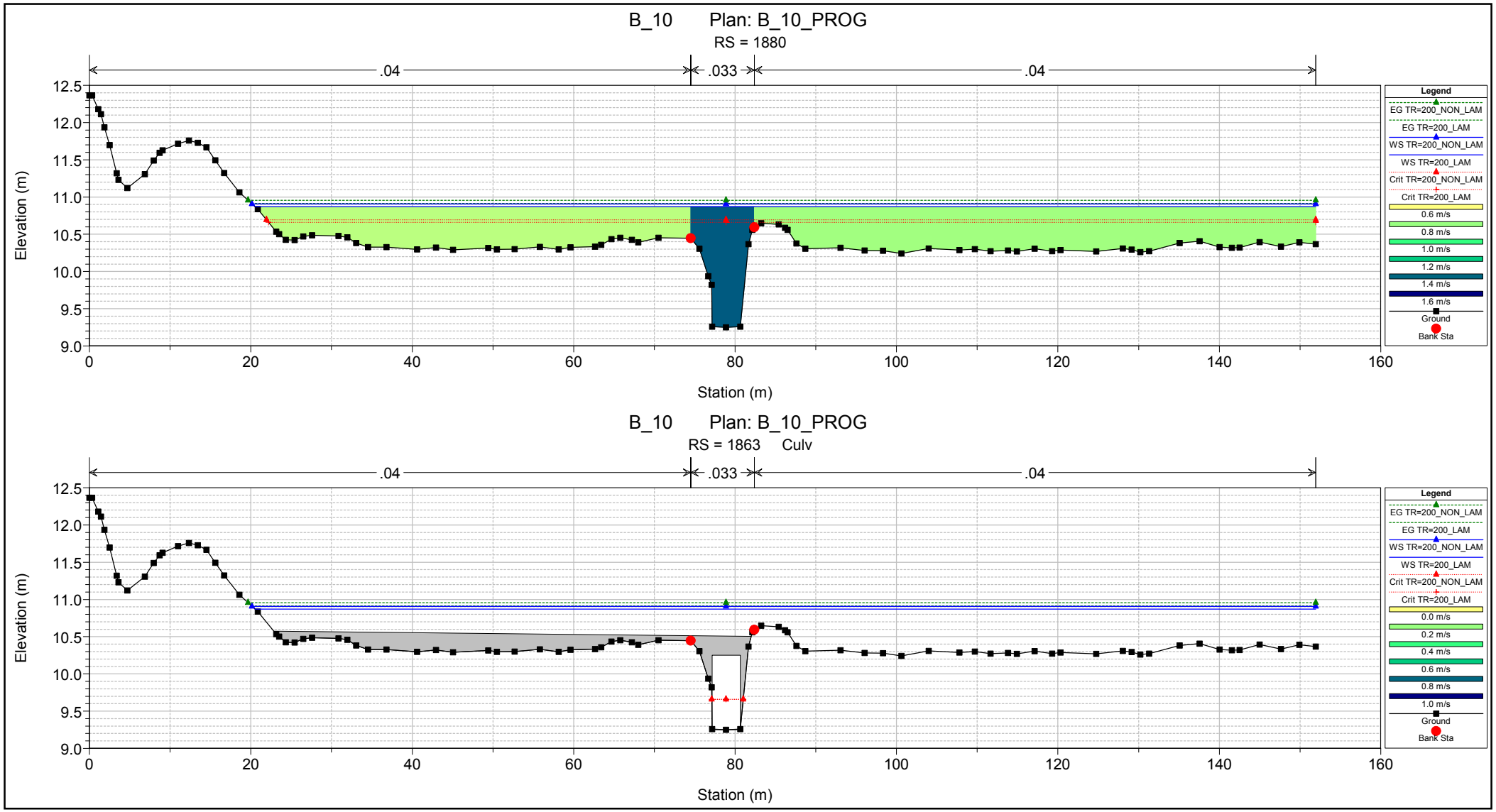

B_10 Plan: B_10_PROG
RS = 2346
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 2323
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta

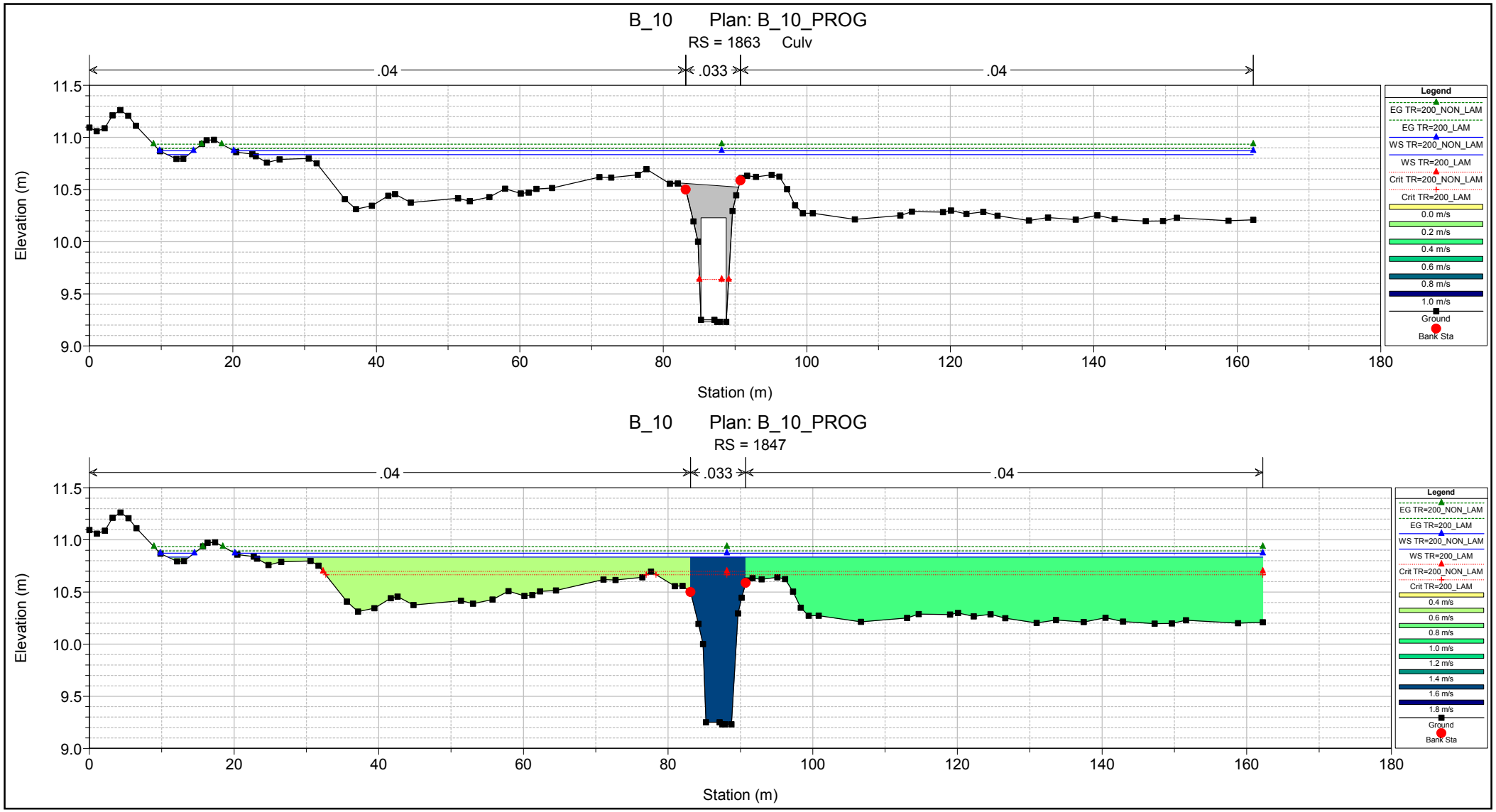

B_10 Plan: B_10_PROG
RS = 2231
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 2205
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.5 m/s
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
1.2 m/s
Ground
Bank Sta

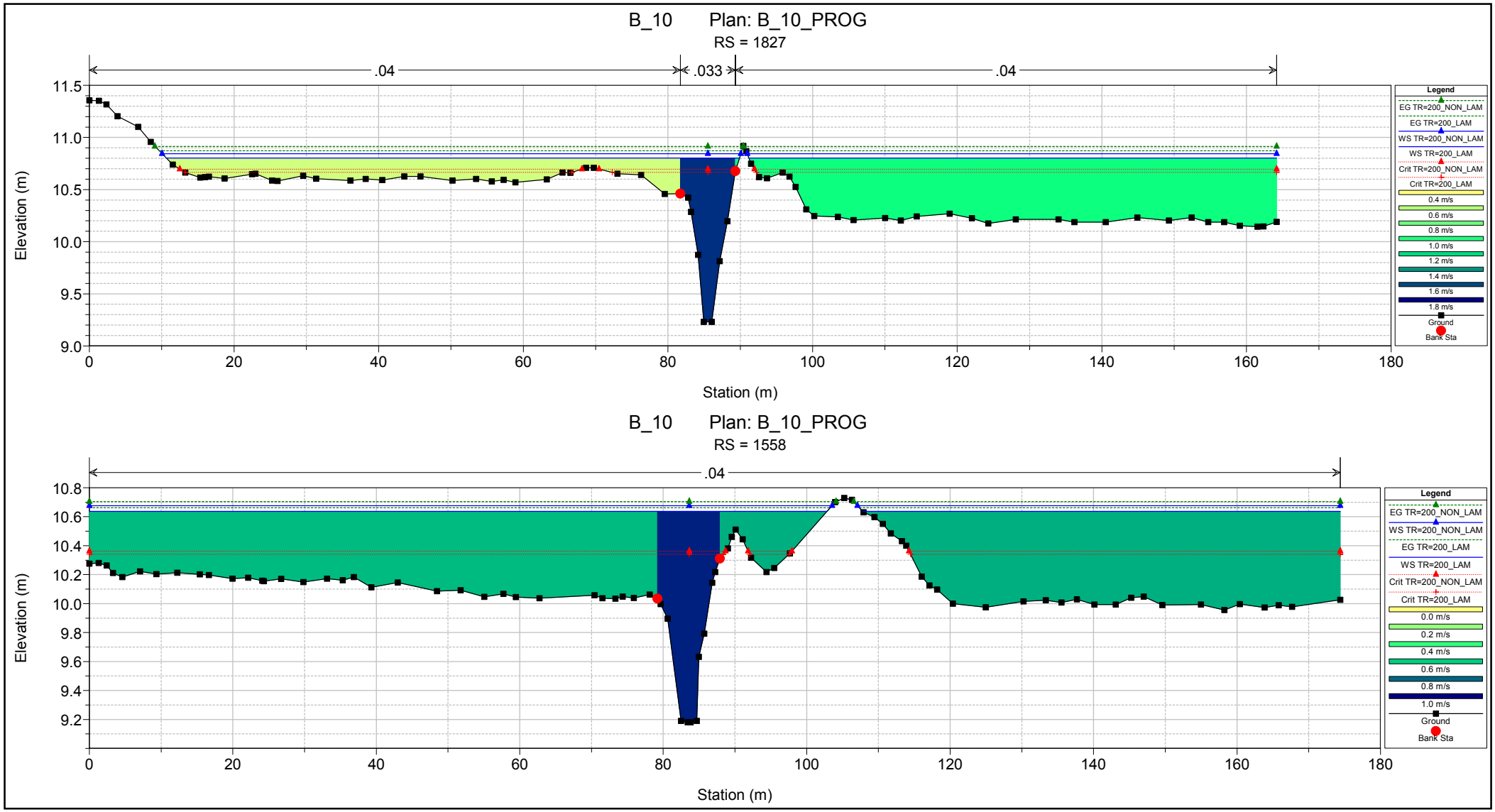

B_10 Plan: B_10_PROG
RS = 2178 Culv Scatolare Via Orta Longa - Viadotto SS 268 - Carr. Sud
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 2178 Culv Scatolare Via Orta Longa - Viadotto SS 268 - Carr. Sud
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta

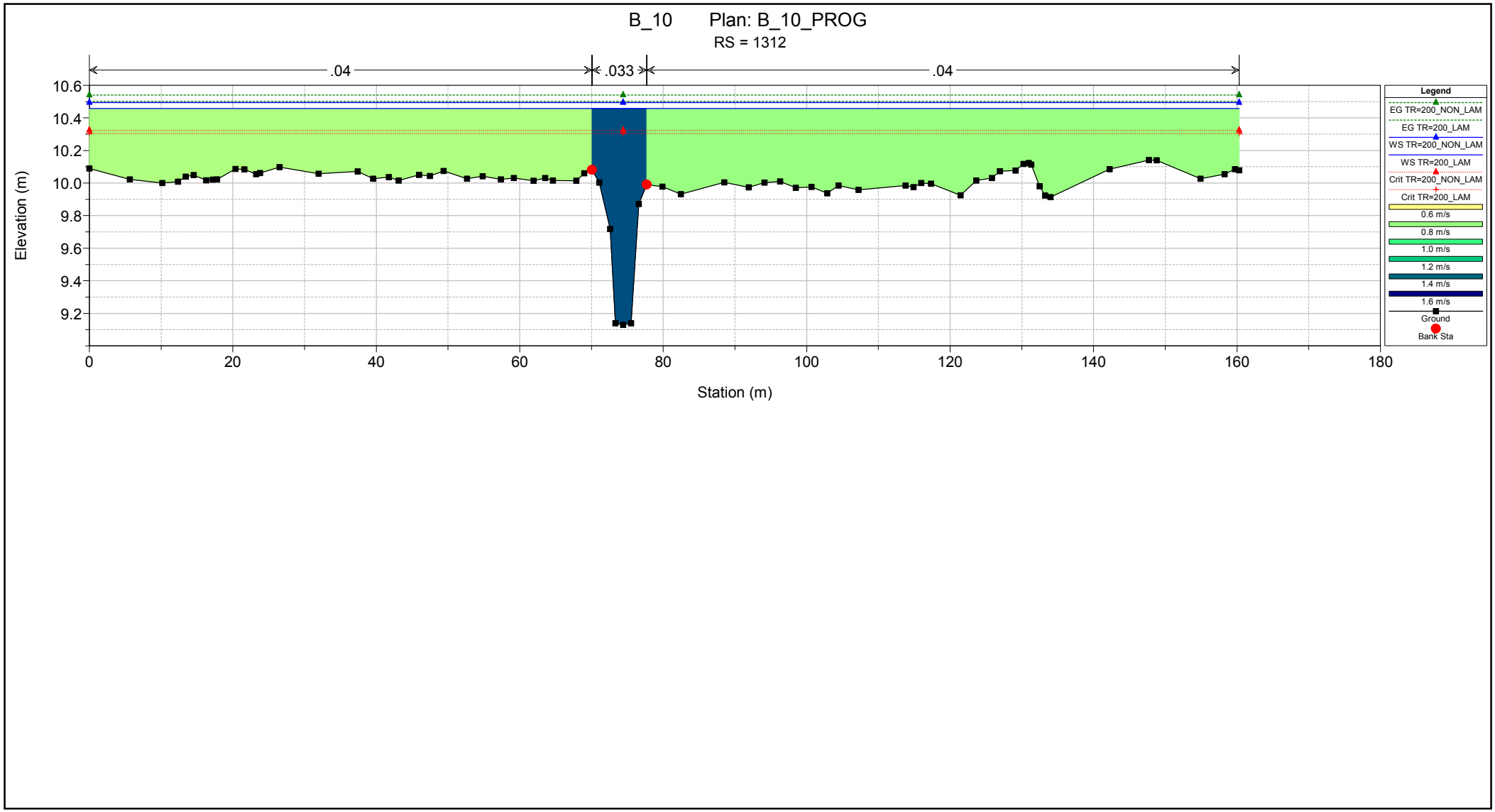

B_10 Plan: B_10_PROG
RS = 2152
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 2126
.04
033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
2.0 m/s
2.2 m/s
Ground
Bank Sta


B_10 Plan: B_10_PROG
RS = 2005
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.5 m/s
0.6 m/s
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 1906
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.7 m/s
0.8 m/s
0.9 m/s
1.0 m/s
1.1 m/s
1.2 m/s
1.3 m/s
1.4 m/s
Ground
Bank Sta


B_10 Plan: B_10_PROG
RS = 1880
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 1863 Culv
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta


B_10 Plan: B_10_PROG
RS = 1863 Culv
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 1847
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Bank Sta


B_10 Plan: B_10_PROG
RS = 1827
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Bank Sta
B_10 Plan: B_10_PROG
RS = 1558
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Bank Sta


B_10 Plan: B_10_PROG
RS = 1312
.04
.033
.04
Elevation (m)
10.6
10.4
10.2
10.0
9.8
9.6
9.4
9.2
0
20
40
60
80
100
120
140
160
180
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Bank Sta

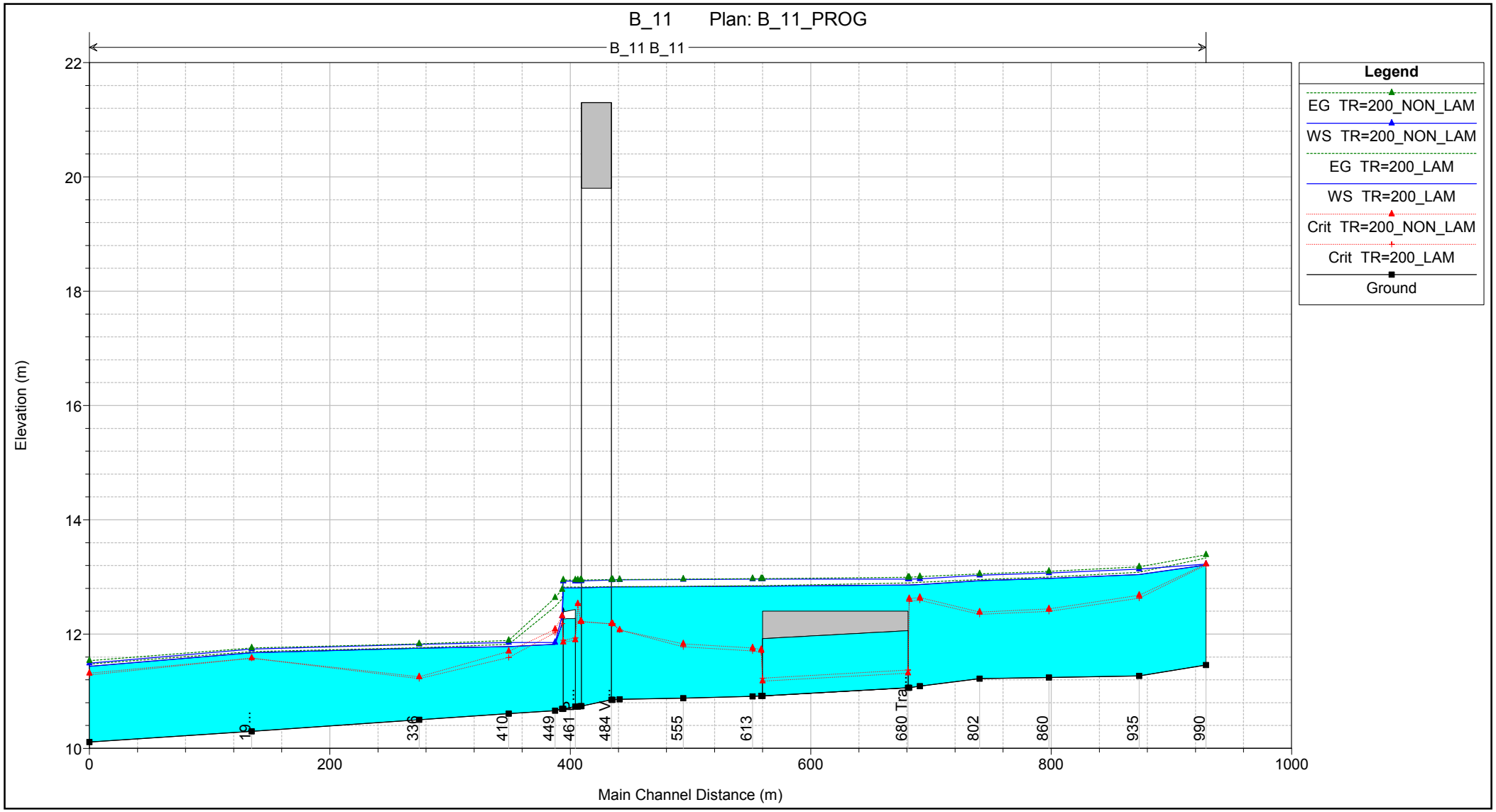
3.2.3. Corso d’acqua B.11
(Configurazione di progetto - Evento TR 200 anni)

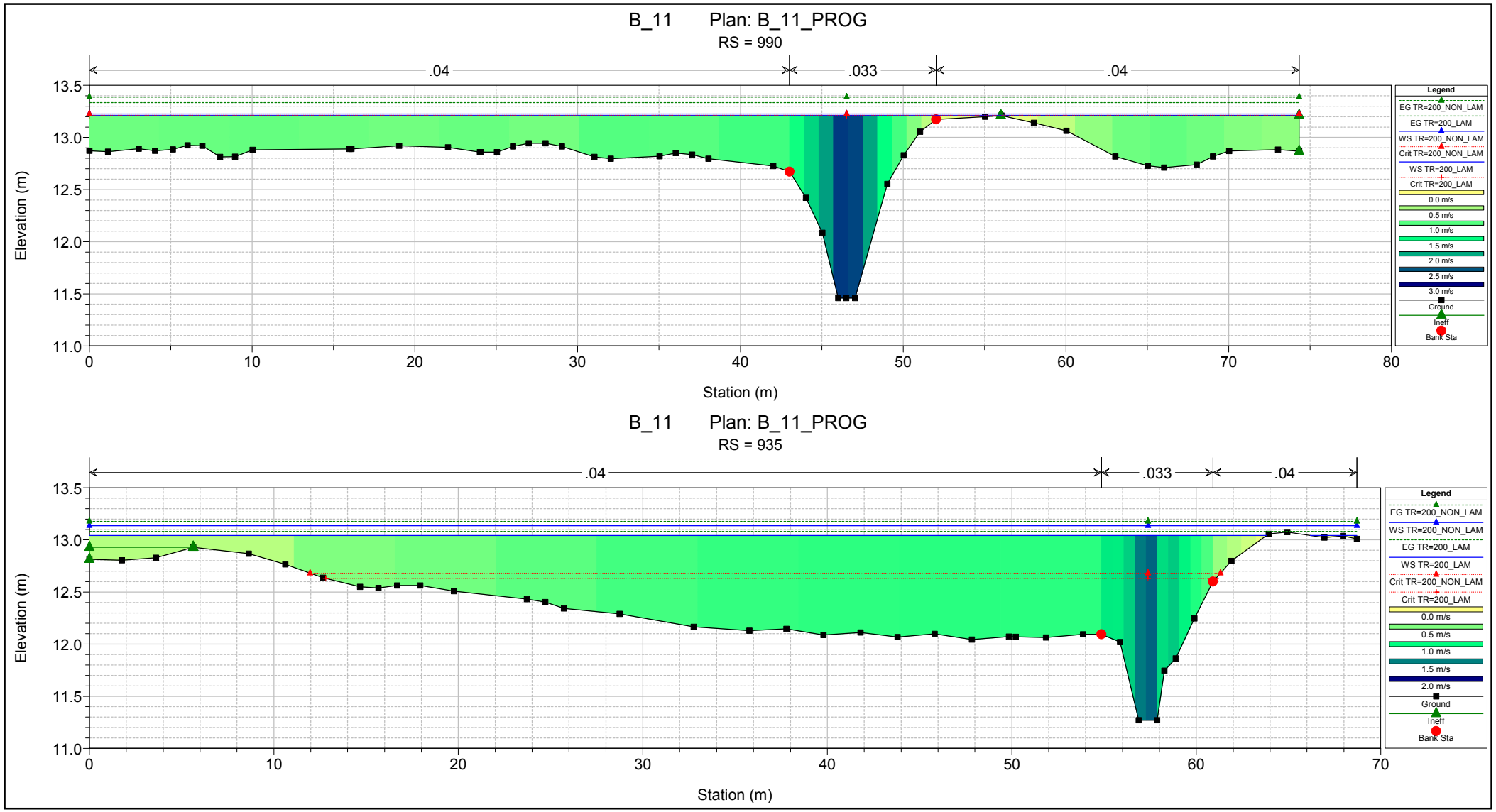
HEC-RAS Plan: PROG River: B_11 Reach: B_11

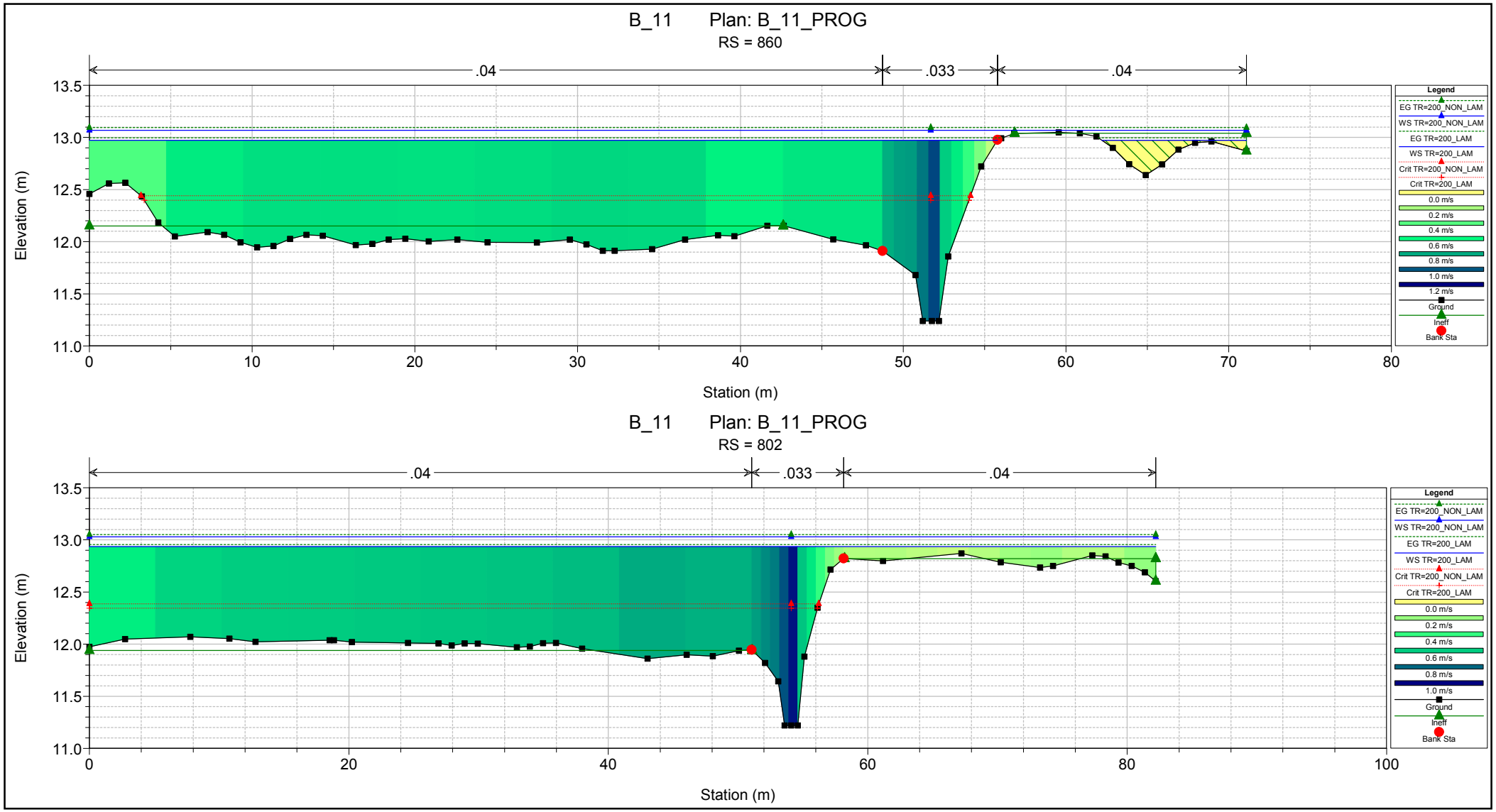
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_11	990	TR=200_LAM	35.00	11.46	1.75	13.21	13.21	0.00	0.69	13.33	2.05	1.21	0.84	47	0.39
B_11	990	TR=200_NON_LAM	42.00	11.46	1.76	13.22	13.22	0.00	0.79	13.39	2.36	1.40	0.86	63	0.40
B_11	935	TR=200_LAM	35.00	11.27	1.77	13.04	12.63	0.41	0.36	13.08	1.22	0.80	1.07	16	0.66
B_11	935	TR=200_NON_LAM	42.00	11.27	1.87	13.14	12.68	0.46	0.36	13.18	1.26	0.84	1.16	16	0.73
B_11	860	TR=200_LAM	35.00	11.24	1.73	12.97	12.40	0.57	0.26	13.00	0.80	0.68	0.92	7	0.93
B_11	860	TR=200_NON_LAM	42.00	11.24	1.83	13.07	12.44	0.63	0.26	13.10	0.86	0.71	1.01	8	0.83
B_11	802	TR=200_LAM	35.00	11.22	1.71	12.93	12.34	0.59	0.23	12.95	0.72	0.60	0.89	6	0.71
B_11	802	TR=200_NON_LAM	42.00	11.22	1.81	13.03	12.39	0.64	0.24	13.05	0.77	0.64	0.97	6	0.80
B_11	752	TR=200_LAM	35.00	11.09	1.78	12.87	12.59	0.28	0.36	12.91	1.21	0.74	1.10	15	0.58
B_11	752	TR=200_NON_LAM	42.00	11.09	1.88	12.97	12.64	0.33	0.34	13.01	1.21	0.76	1.19	15	0.68
B_11	743	TR=200_LAM	35.00	11.06	1.80	12.86	12.57	0.29	0.31	12.89	1.09	0.68	1.09	12	0.61
B_11	743	TR=200_NON_LAM	42.00	11.06	1.90	12.96	12.62	0.34	0.30	12.99	1.10	0.71	1.18	12	0.71
B_11	680		Culvert												
B_11	620	TR=200_LAM	35.00	10.92	1.92	12.84	11.68	1.16	0.12	12.85	0.54	0.37	1.58	3	1.05
B_11	620	TR=200_NON_LAM	42.00	10.92	2.04	12.96	11.73	1.23	0.13	12.97	0.57	0.39	1.69	3	1.17
B_11	613	TR=200_LAM	35.00	10.91	1.93	12.84	11.71	1.13	0.13	12.85	0.53	0.37	1.46	3	1.01
B_11	613	TR=200_NON_LAM	42.00	10.91	2.05	12.96	11.76	1.20	0.14	12.97	0.56	0.40	1.58	3	1.14
B_11	555	TR=200_LAM	35.00	10.88	1.95	12.83	11.78	1.05	0.10	12.84	0.39	0.29	1.43	1	1.19
B_11	555	TR=200_NON_LAM	42.00	10.88	2.08	12.96	11.83	1.13	0.10	12.96	0.42	0.32	1.54	2	1.31
B_11	503	TR=200_LAM	35.00	10.86	1.97	12.83	12.07	0.76	0.10	12.83	0.33	0.28	1.07	1	1.09
B_11	503	TR=200_NON_LAM	42.00	10.86	2.09	12.95	12.07	0.88	0.10	12.95	0.36	0.30	1.19	1	1.21
B_11	497	TR=200_LAM	35.00	10.85	1.98	12.83	12.18	0.65	0.10	12.83	0.34	0.29	1.12	1	1.11
B_11	497	TR=200_NON_LAM	42.00	10.85	2.10	12.95	12.18	0.77	0.10	12.95	0.37	0.31	1.24	1	1.23
B_11	484		Bridge												
B_11	470	TR=200_LAM	35.00	10.74	2.07	12.81	12.22	0.59	0.16	12.82	0.53	0.48	0.99	3	1.11

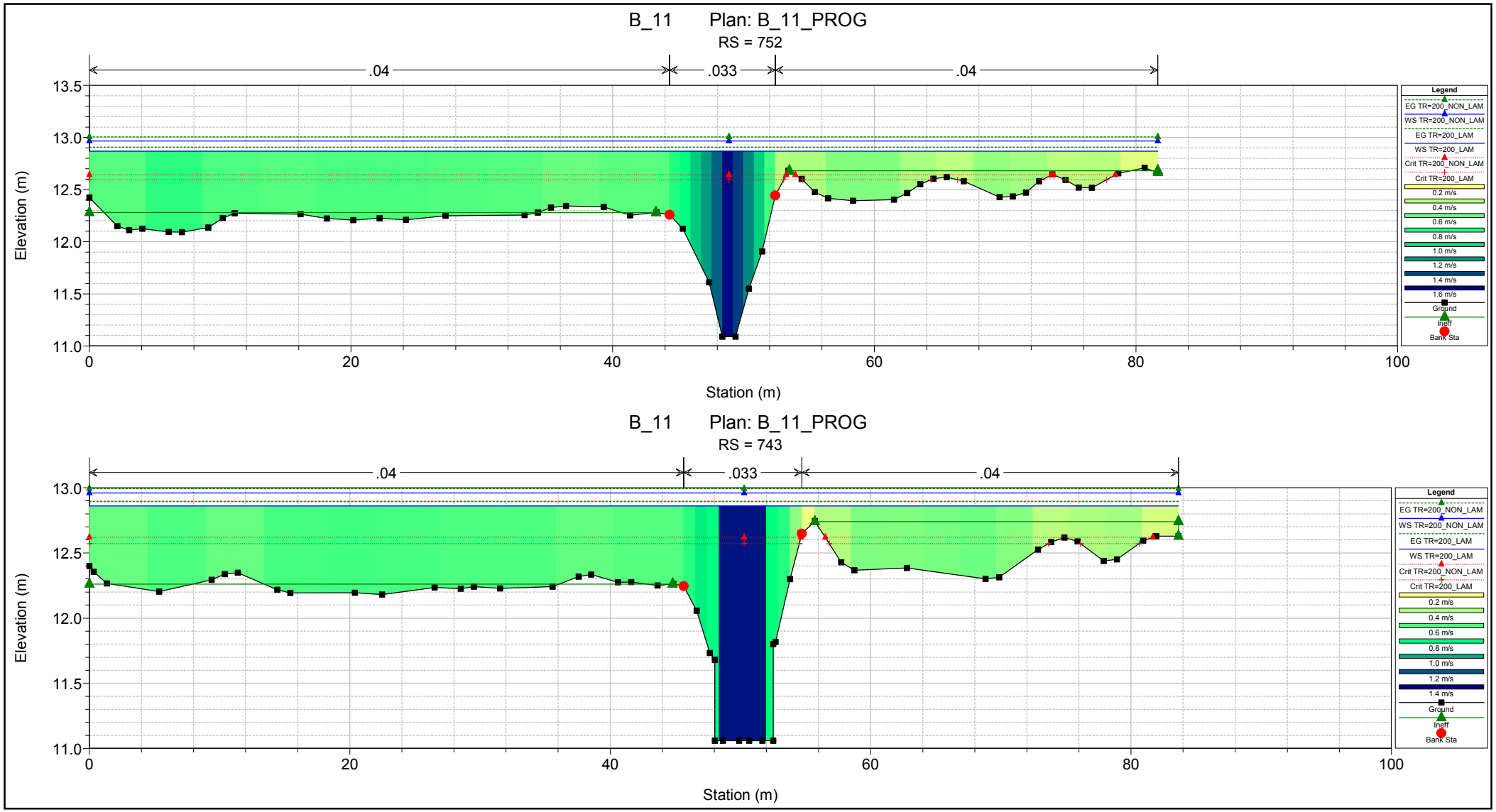
HEC-RAS Plan: PROG River: B_11 Reach: B_11 (Continued)

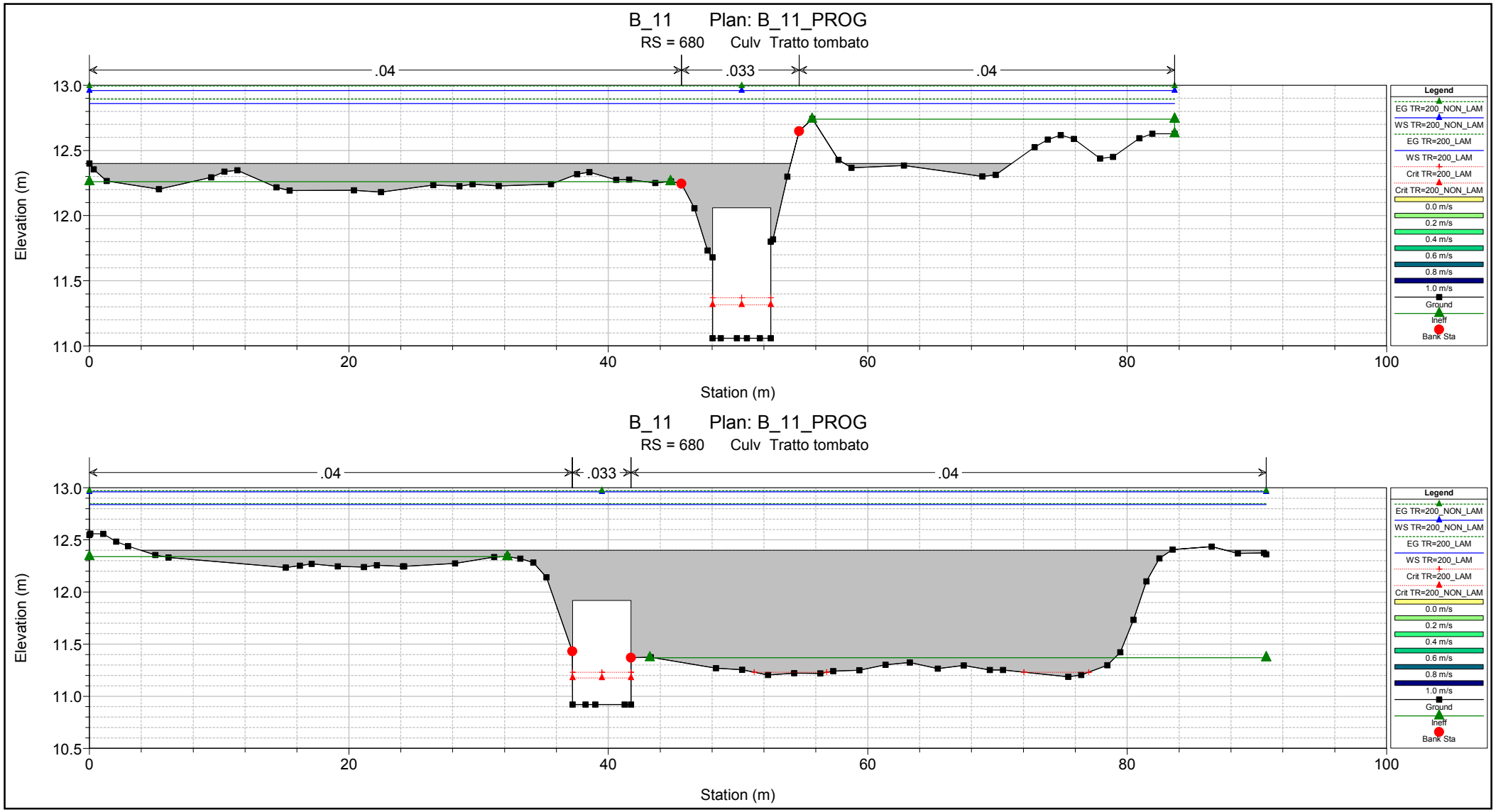
Reach	River Sta	Profile	Q Total	Min Ch El	Max Chl Dpth	W.S. Elev	Crit W.S.	Diff	Froude # Chl	E.G. Elev	Vel Chnl	Vel Total	Hydr Radius C	Shear Chan	Hydr Depth
			(m3/s)	(m)	(m)	(m)	(m)			(m)	(m/s)	(m/s)	(m)	(N/m2)	(m)
B_11	470	TR=200_NON_LAM	42.00	10.74	2.19	12.93	12.22	0.71	0.17	12.95	0.56	0.52	1.04	3	1.21
B_11	468	TR=200_LAM	35.00	10.73	2.08	12.81	12.53	0.28	0.19	12.82	0.69	0.55	1.07	5	1.01
B_11	468	TR=200_NON_LAM	42.00	10.73	2.20	12.93	12.53	0.40	0.19	12.95	0.71	0.59	1.09	5	1.11
B_11	461		Culvert												
B_11	455	TR=200_LAM	35.00	10.69	1.49	12.18	12.18	0.00	0.94	12.62	2.95	2.81	0.84	99	0.80
B_11	455	TR=200_NON_LAM	42.00	10.69	1.63	12.32	12.32	0.00	0.93	12.78	3.07	2.87	0.93	103	0.85
B_11	449	TR=200_LAM	35.00	10.66	1.16	11.82	12.02	-0.20	1.65	12.48	4.14	3.07	0.61	215	0.38
B_11	449	TR=200_NON_LAM	42.00	10.66	1.19	11.85	12.08	-0.23	1.78	12.64	4.54	3.39	0.63	256	0.41
B_11	410	TR=200_LAM	35.00	10.61	1.17	11.78	11.59	0.19	0.52	11.82	1.28	0.78	0.59	21	0.34
B_11	410	TR=200_NON_LAM	42.00	10.61	1.24	11.85	11.70	0.15	0.48	11.89	1.23	0.78	0.66	19	0.41
B_11	336	TR=200_LAM	35.00	10.50	1.25	11.75	11.22	0.53	0.16	11.76	0.49	0.33	0.95	3	0.66
B_11	336	TR=200_NON_LAM	42.00	10.50	1.32	11.82	11.25	0.57	0.16	11.83	0.52	0.35	1.02	3	0.69
B_11	197	TR=200_LAM	35.00	10.30	1.37	11.67	11.58	0.09	0.27	11.69	0.76	0.58	0.72	7	0.62
B_11	197	TR=200_NON_LAM	42.00	10.30	1.44	11.74	11.58	0.16	0.28	11.76	0.81	0.63	0.76	8	0.68
B_11	62	TR=200_LAM	35.00	10.11	1.33	11.44	11.28	0.16	0.47	11.48	1.36	0.83	0.74	22	0.45
B_11	62	TR=200_NON_LAM	42.00	10.11	1.38	11.49	11.32	0.17	0.48	11.53	1.40	0.89	0.78	23	0.50

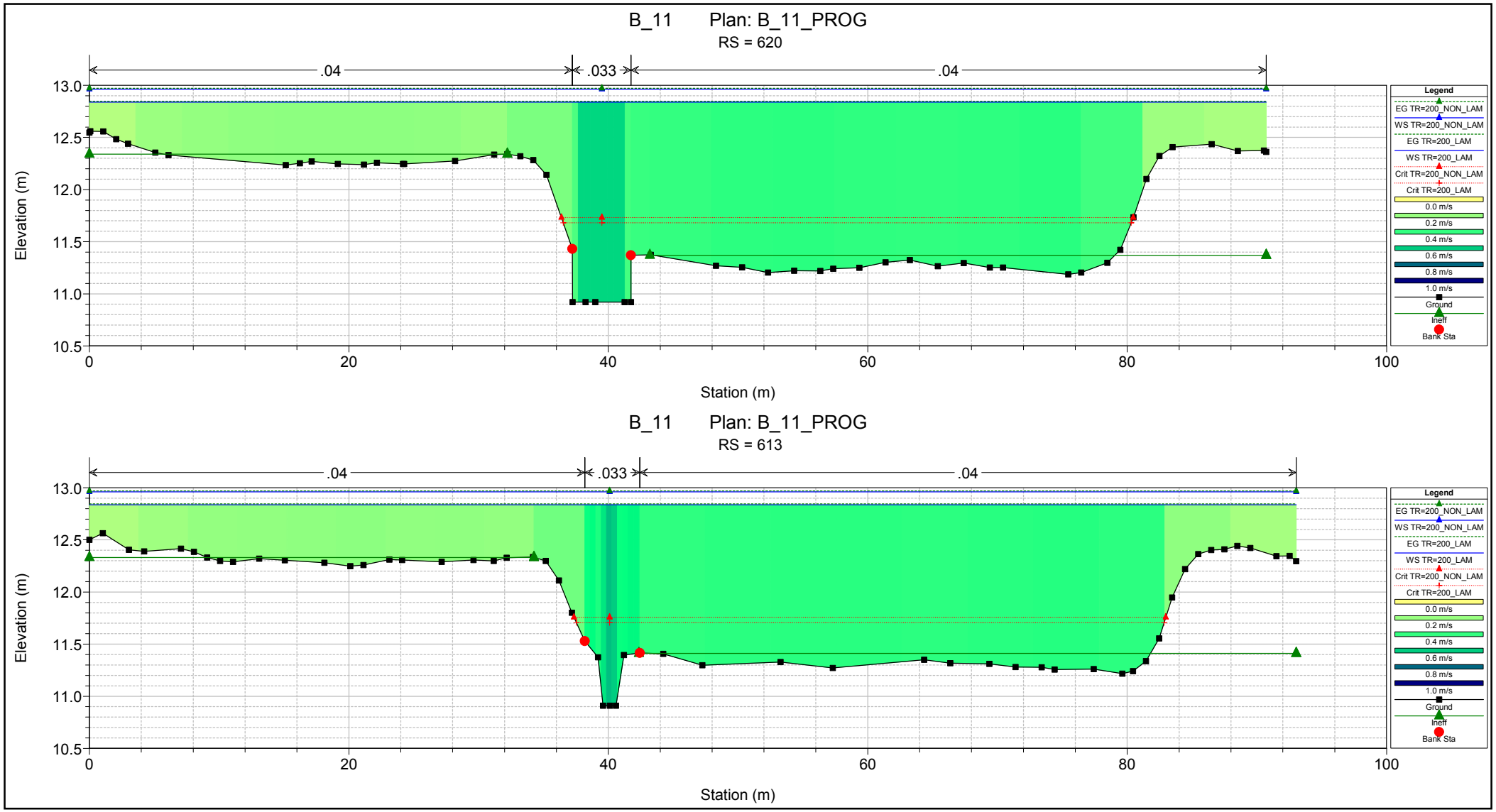

B_11 Plan: B_11_PROG
B_11 B_11
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
Ground
Elevation (m)
Main Channel Distance (m)
22
20
18
16
14
12
10
0
200
400
600
800
1000
336
410
449
461
555
613
802
860
935
990

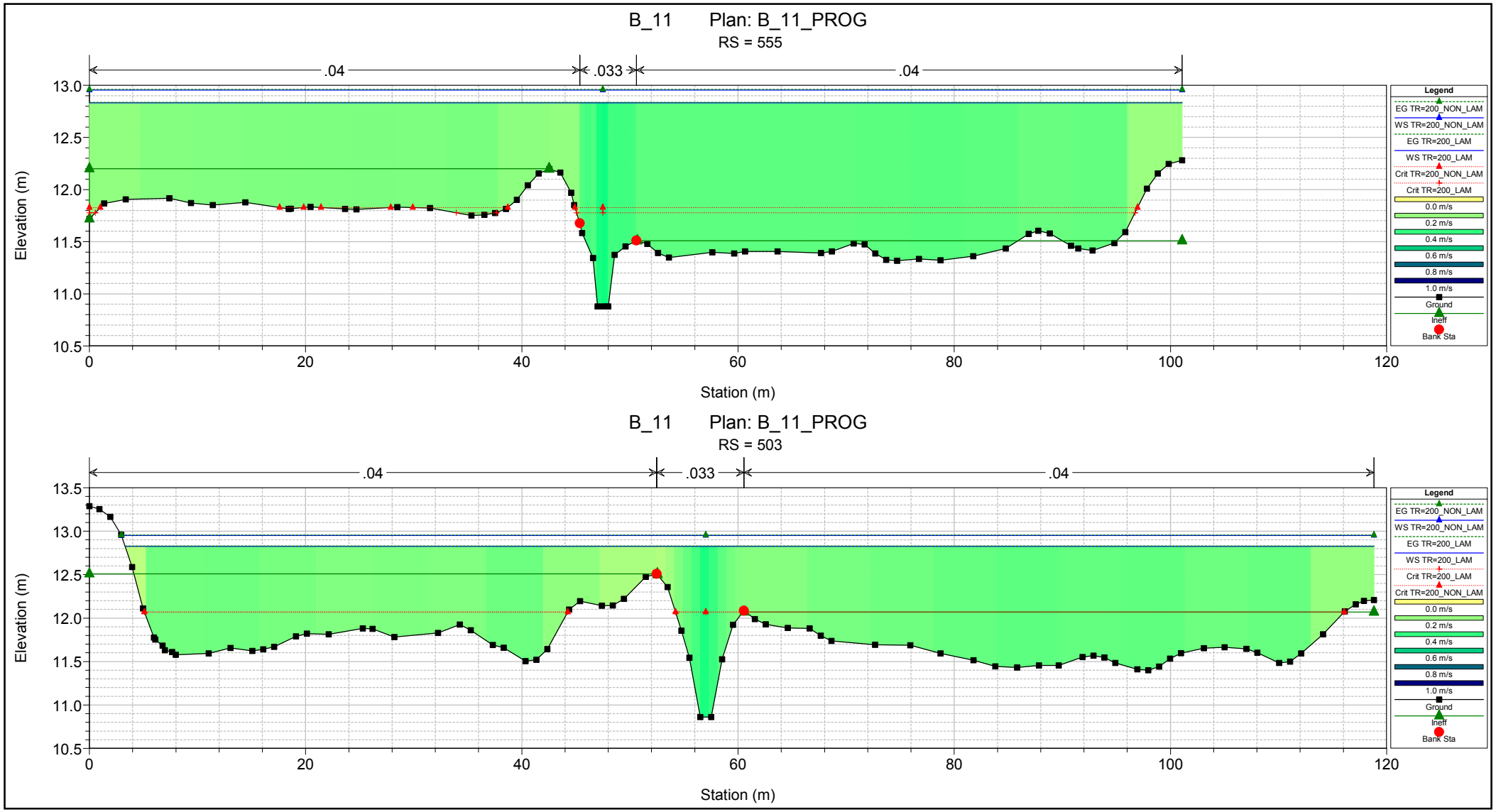

B_11 Plan: B_11_PROG
RS = 990
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
2.5 m/s
3.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 935
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
Ground
Ineff
Bank Sta

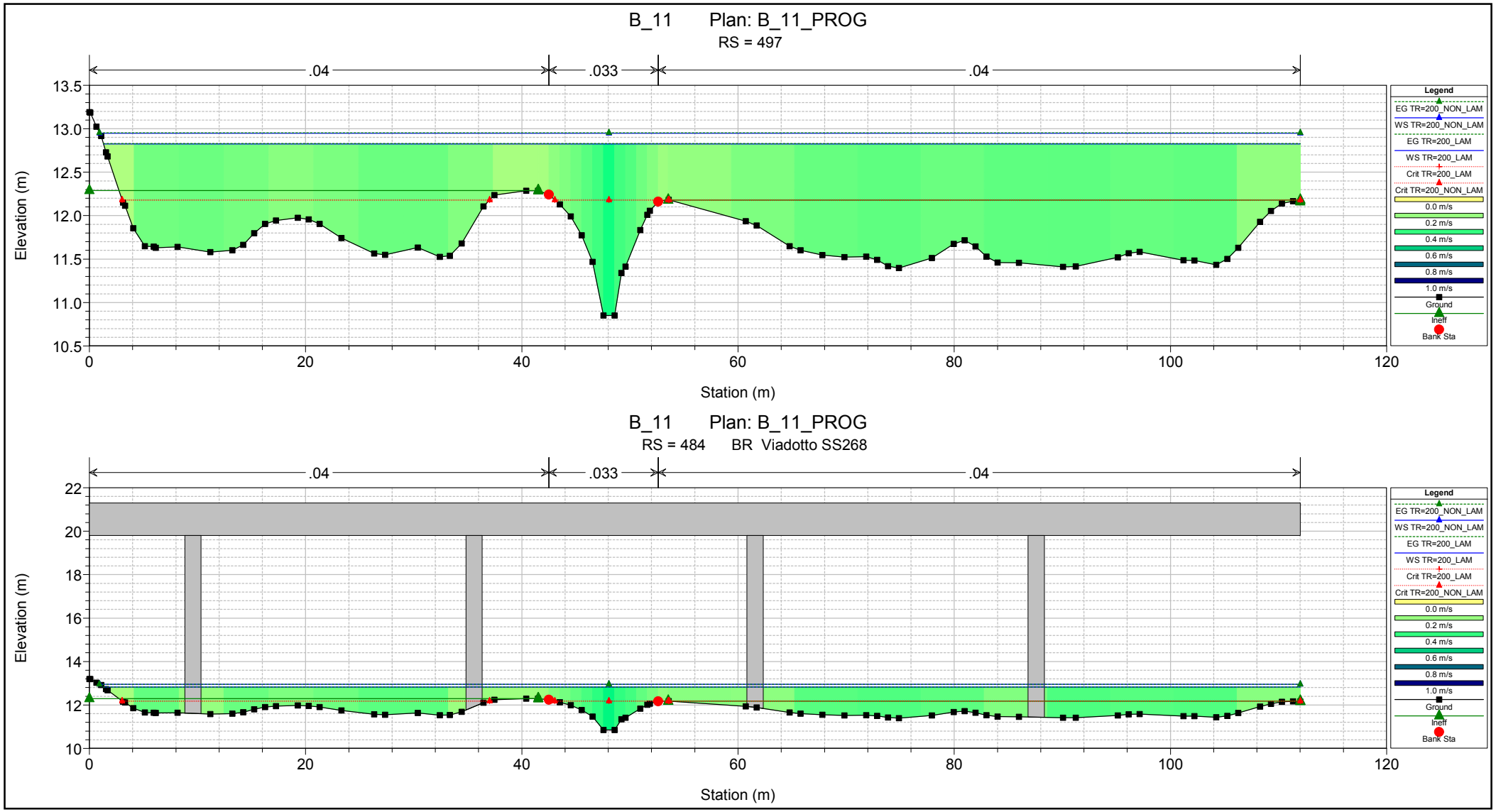

B_11 Plan: B_11_PROG
RS = 860
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 802
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta

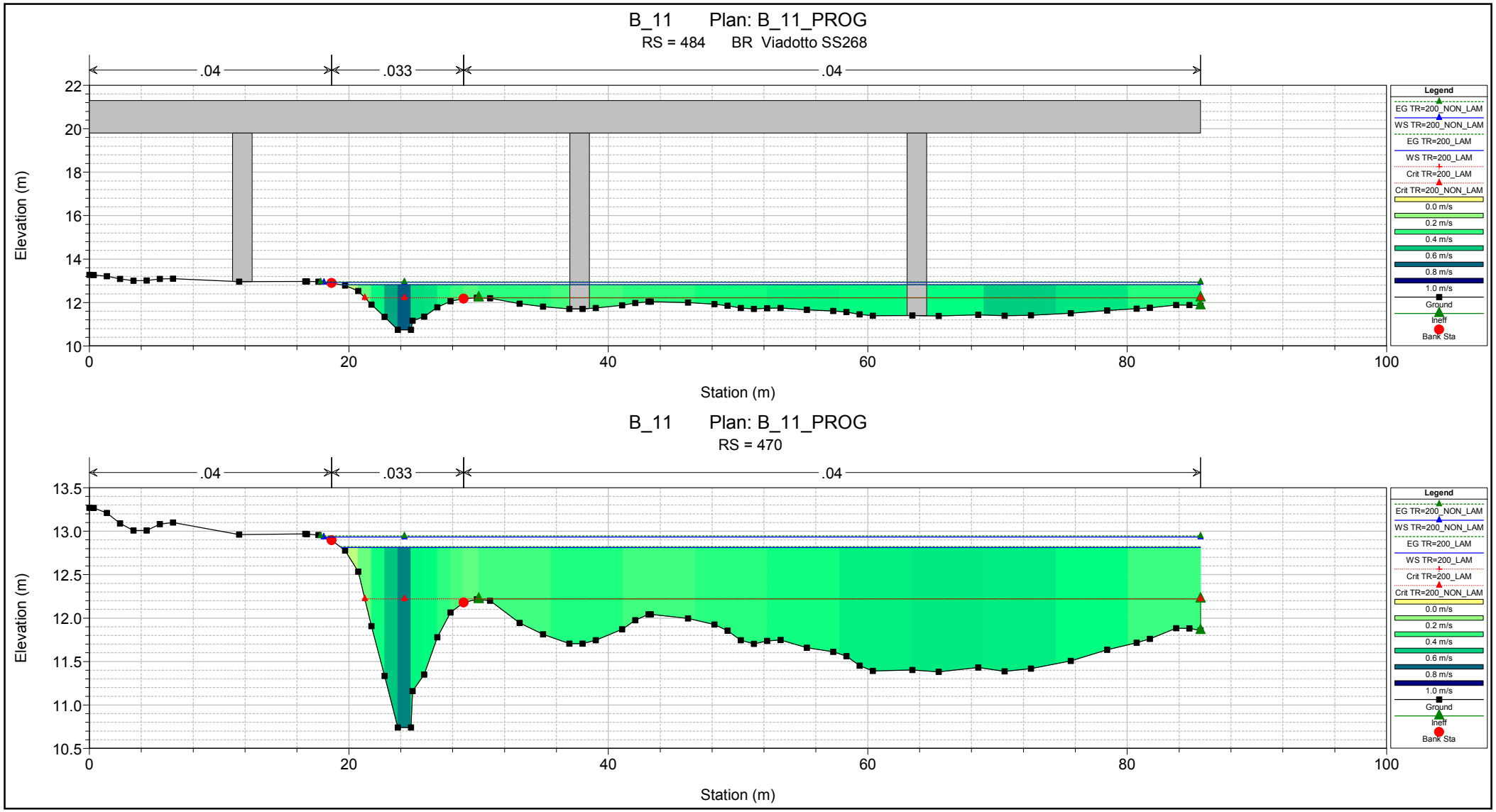

B_11 Plan: B_11_PROG
RS = 752
.04
.033
.04
Elevation (m)
13.5
13.0
12.5
12.0
11.5
11.0
0
20
40
60
80
100
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 743
.04
.033
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
0
20
40
60
80
100
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
Ground
Ineff
Bank Sta

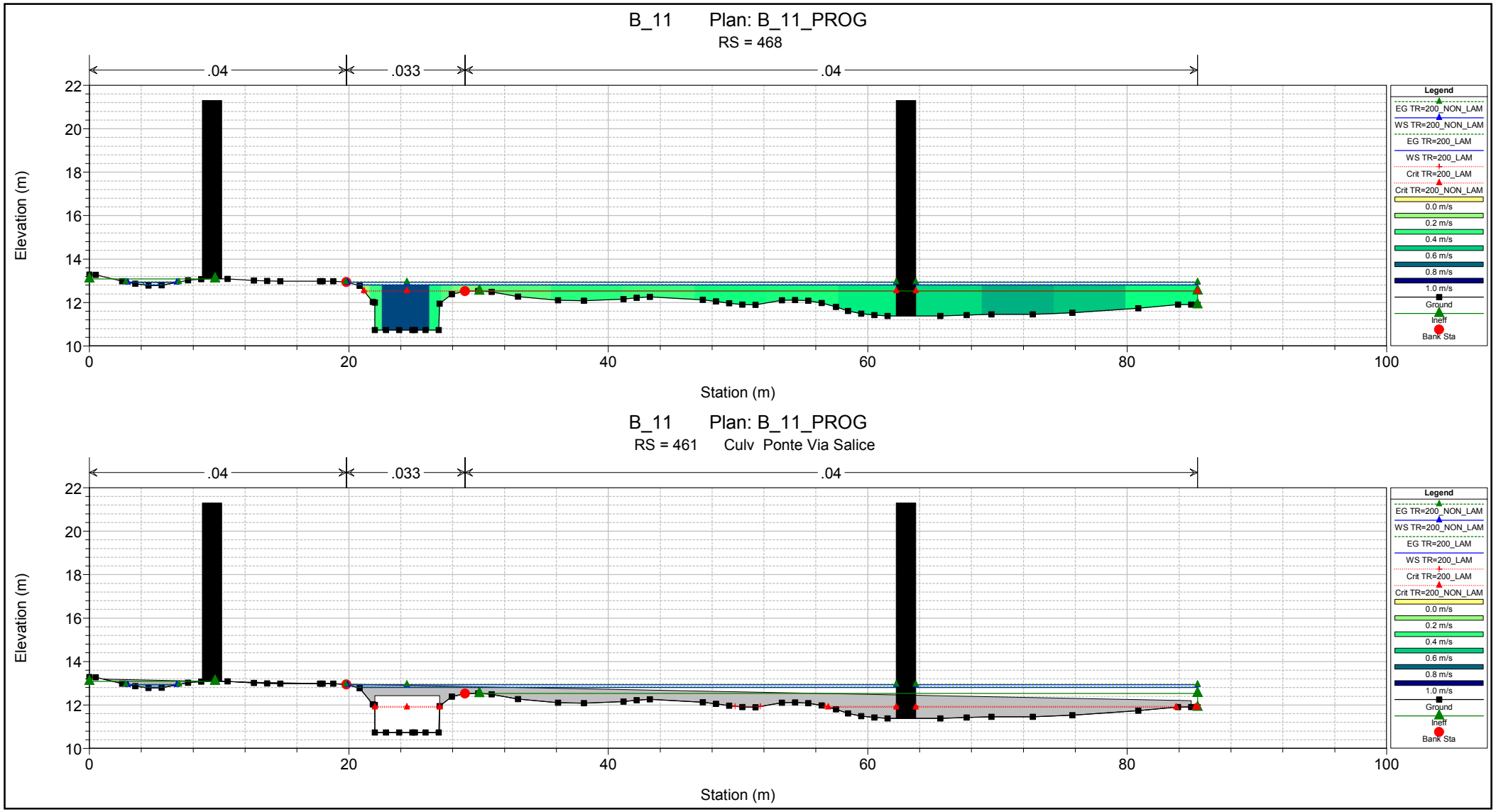

B_11 Plan: B_11_PROG
RS = 680 Culv Tratto tombato
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 680 Culv Tratto tombato
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta

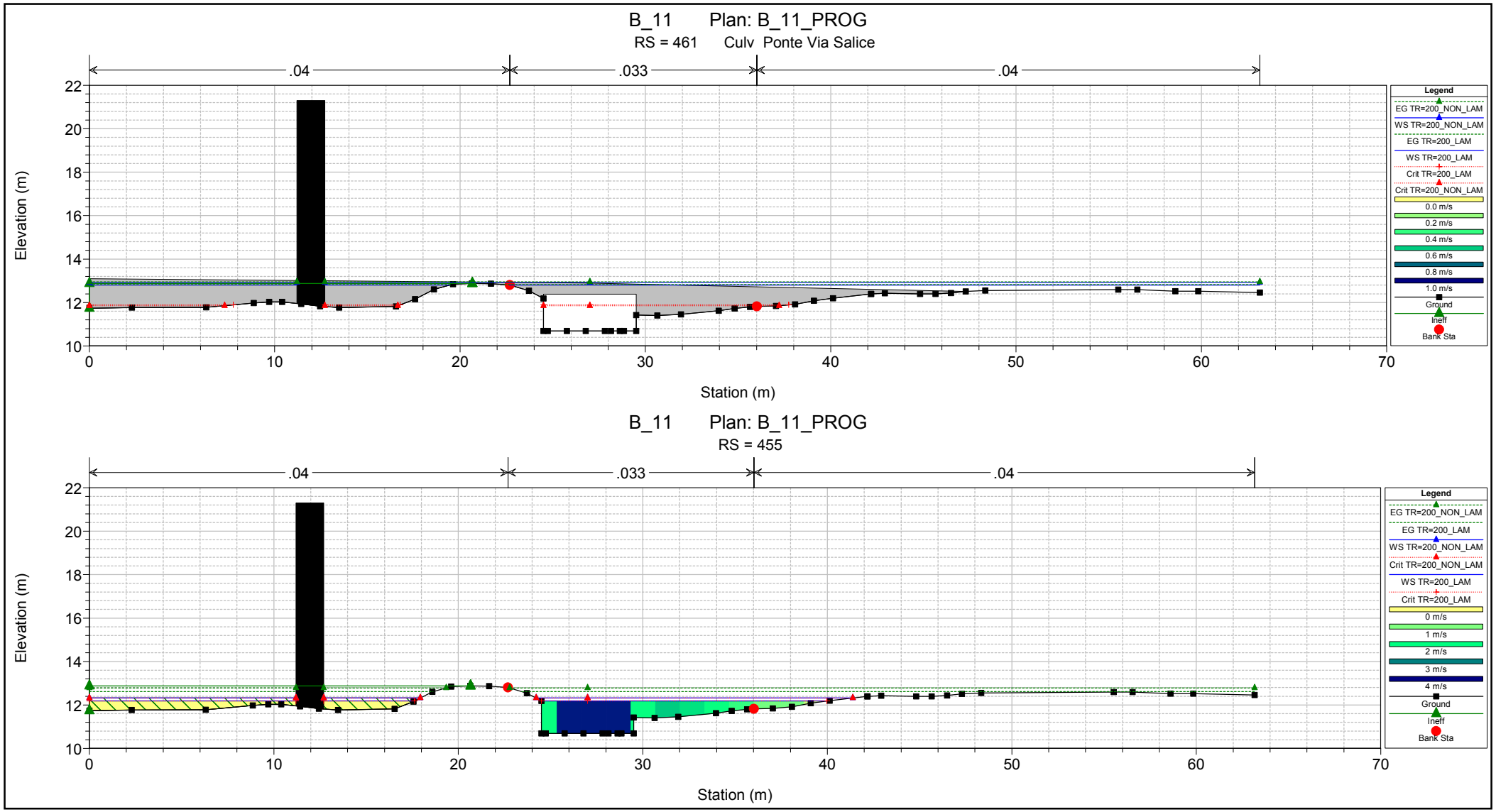

B_11 Plan: B_11_PROG
RS = 620
.04
.033
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
10.5
0
20
40
60
80
100
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 613
.04
.033
.04
Elevation (m)
13.0
12.5
12.0
11.5
11.0
10.5
0
20
40
60
80
100
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta

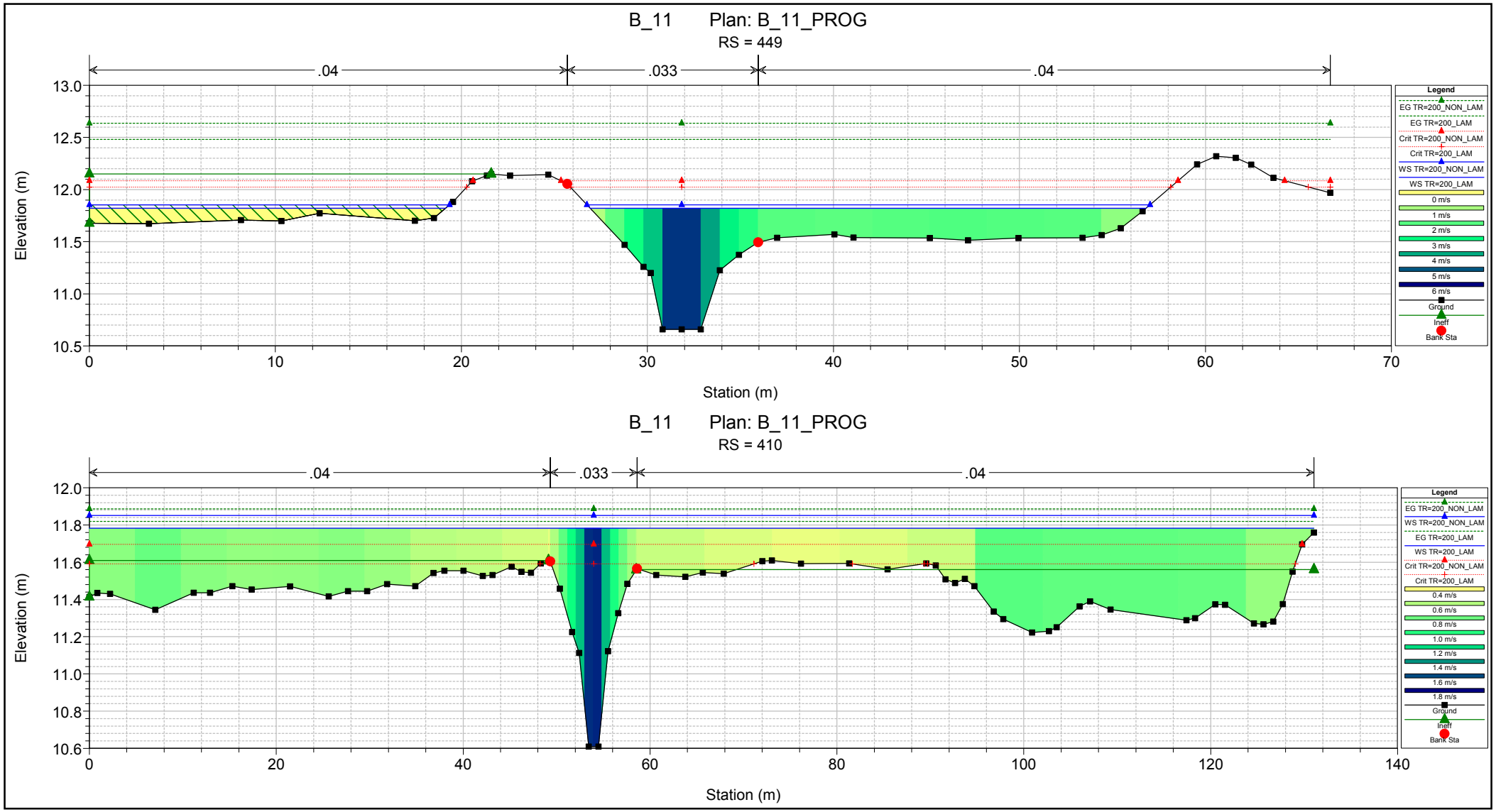

B_11 Plan: B_11_PROG
RS = 555
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 503
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta

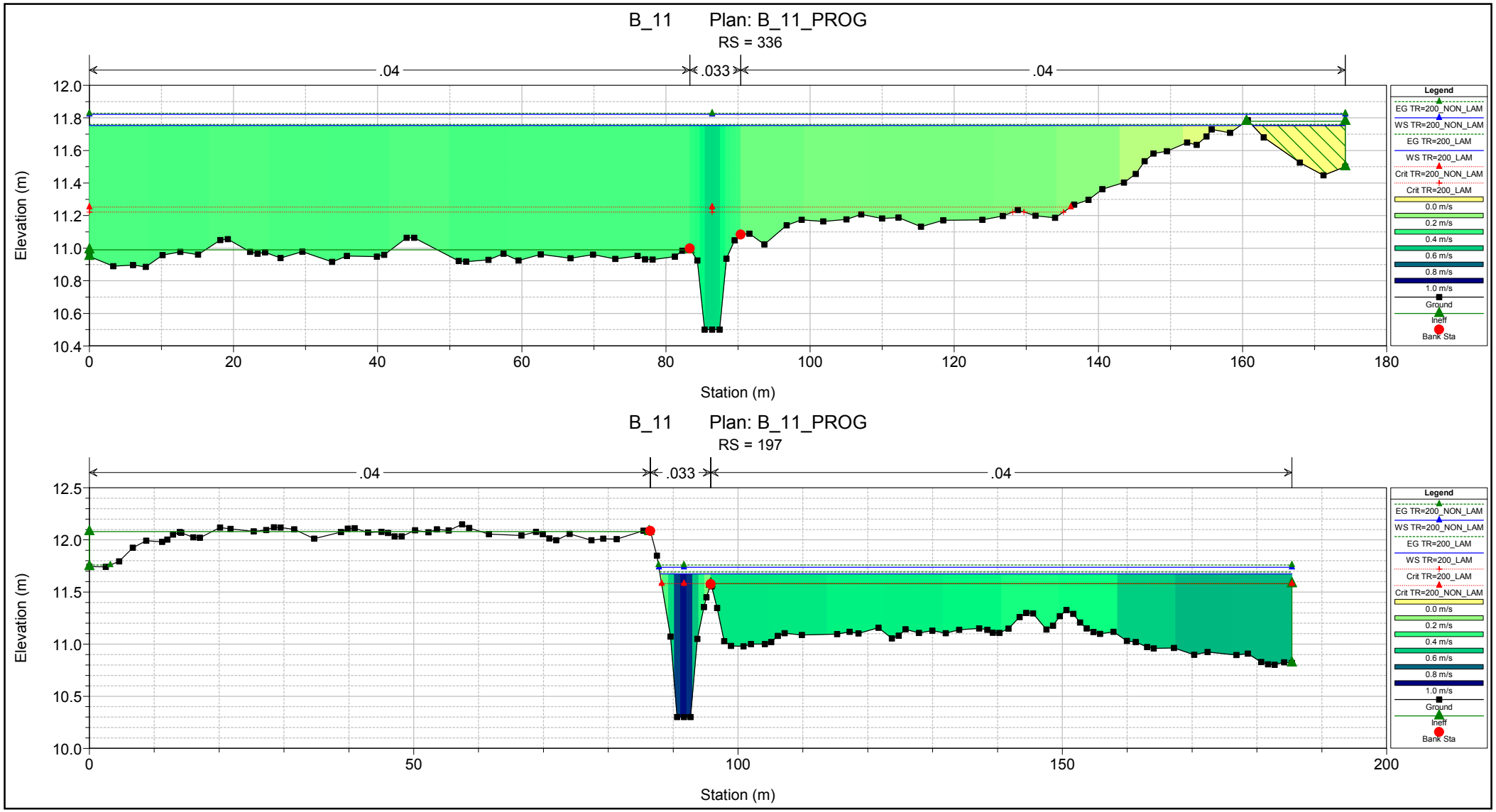

B_11 Plan: B_11_PROG
RS = 497
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 484 BR Viadotto SS268
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta

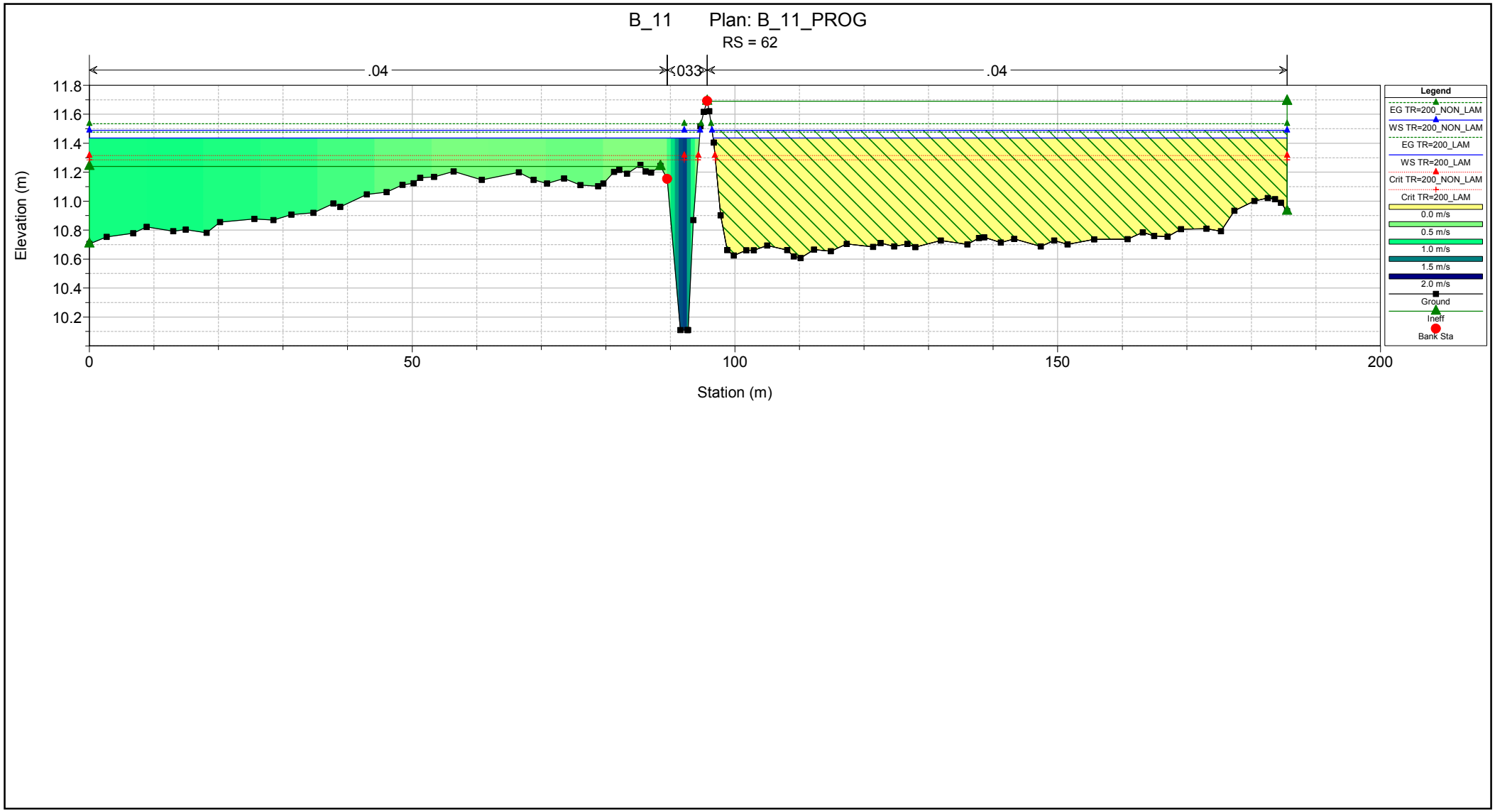

B_11 Plan: B_11_PROG
RS = 484 BR Viadotto SS268
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 470
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_PROG
RS = 468
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 461 Culv Ponte Via Salice
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_PROG
RS = 461 Culv Ponte Via Salice
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 455
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_NON_LAM
Crit TR=200_NON_LAM
WS TR=200_LAM
Crit TR=200_LAM
0 m/s
1 m/s
2 m/s
3 m/s
4 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_PROG
RS = 449
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
EG TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
WS TR=200_NON_LAM
WS TR=200_LAM
0 m/s
1 m/s
2 m/s
3 m/s
4 m/s
5 m/s
6 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 410
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
1.2 m/s
1.4 m/s
1.6 m/s
1.8 m/s
Ground
Ineff
Bank Sta

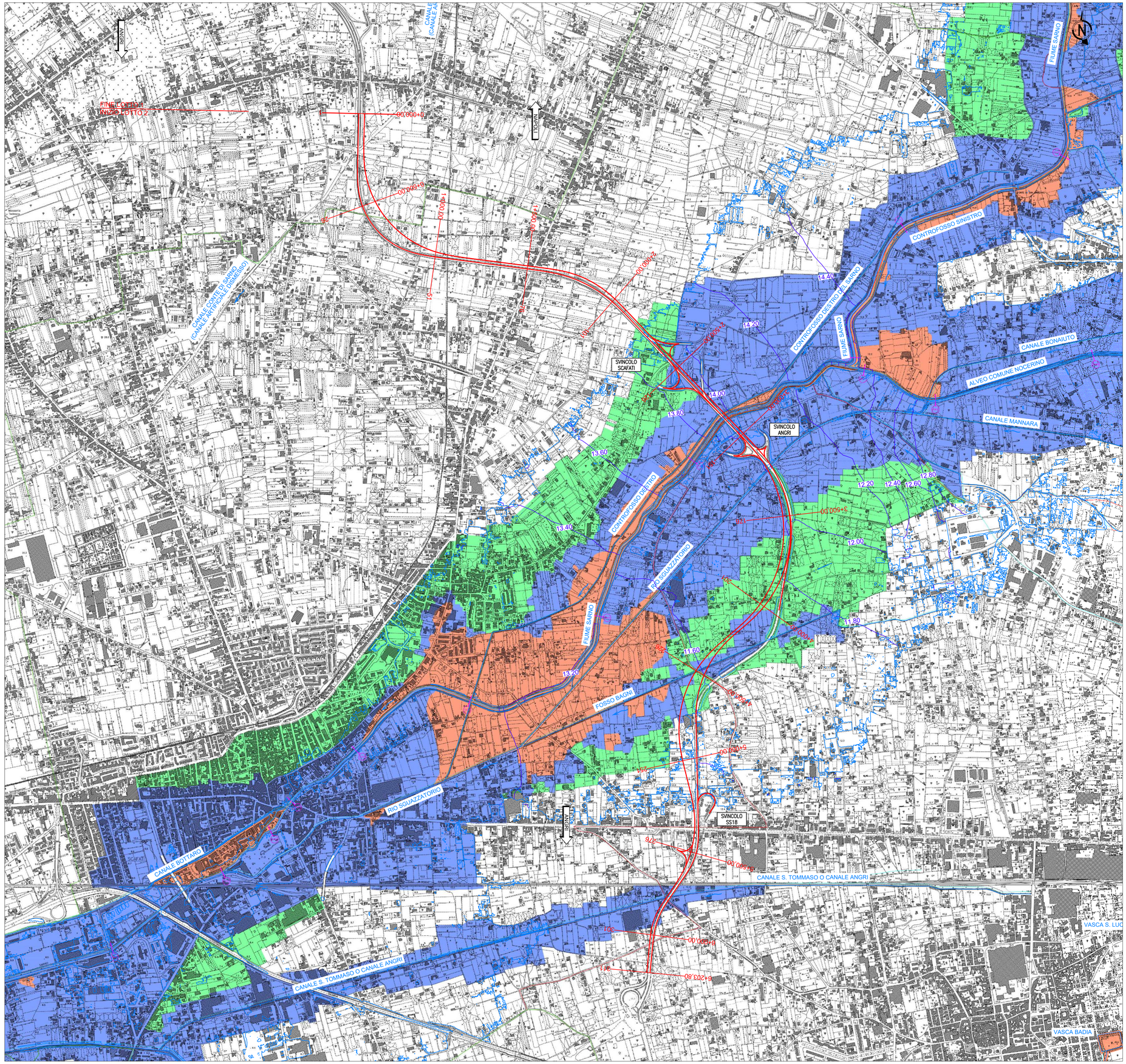

B_11 Plan: B_11_PROG
RS = 336
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta
B_11 Plan: B_11_PROG
RS = 197
.04
.033
.04
Elevation (m)
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_LAM
Crit TR=200_NON_LAM
0.0 m/s
0.2 m/s
0.4 m/s
0.6 m/s
0.8 m/s
1.0 m/s
Ground
Ineff
Bank Sta


B_11 Plan: B_11_PROG
RS = 62
.04
.033
.04
Elevation (m)
11.8
11.6
11.4
11.2
11.0
10.8
10.6
10.4
10.2
0
50
100
150
200
Station (m)
Legend
EG TR=200_NON_LAM
WS TR=200_NON_LAM
EG TR=200_LAM
WS TR=200_LAM
Crit TR=200_NON_LAM
Crit TR=200_LAM
0.0 m/s
0.5 m/s
1.0 m/s
1.5 m/s
2.0 m/s
Ground
Ineff
Bank Sta

4 ALLEGATO IV - CONFRONTO TRA I RISULTATI DELLE SIMULAZIONI (TR=200 ANTE OPERAM) CON LE PERIMETRAZIONI DEL PGRA

Mappa di confronto tra i risultati delle modellazioni per il fiume Sarno e le aree di pericolosità idraulica PGRA, su base CTR

Scala 1:10.000



Carta della pericolosità idraulica PGRA

L E G E N D A

PERICOLOSITA' IDRAULICA

- **P3** - Aree di pericolosita' elevata
- **P2** - Aree di pericolosita' media
- **P1** - Aree di pericolosita' bassa

DEFINIZIONI

- Sezione trasversali di calcolo naturali / opere o attraversamenti
- Sezione trasversali di calcolo naturali / opere o attraversamenti significative *(indicazione in tabella dei tiranti, velocità e portata media assunte dalla corrente per assegnati periodi di ritorno)*
- Punti/Aree di eventuale crisi idraulica: disassi arginali, attraversamenti idraulicamente insufficienti, ostruzioni in alveo, erosione spondale, etc...
- Forme e/o processi di versante attivi o quiescenti *(fonte PAI-RI)* interferenti con le aree alluvionali dei corsi d'acqua oggetto di piano
- Idrografia principale
- Limiti Comunali
- Limiti Provinciali
- Limiti Autorita' di Bacino

Base Cartografica: *C.T.R. Regione Campania, anno 2005*

Risultati modellazioni idrauliche fiume Sarno

LEGENDA

- Allagamenti Ante-operam TR=200 anni
- 12.00 — Elevazione allagamento in m s.l.m.

anas — *Direzione Progettazione e Realizzazione Lavori*

S.S. 268 "DEL VESUVIO"
RADDOPPIO DA DUE A QUATTRO CORSIE DELLA STATALE
dal Km 19+550 al Km 29+300
IN CORRISPONDENZA DELLO SVINCOLO DI ANGRI

2° Lotto, dal Km 23+100 al Km 29+300

PROGETTO DEFINITIVO

COD. NA235

PROGETTAZIONE: R.T.I.: PROGER S.p.A. (capogruppo mandataria)
PROGIN S.p.A. - INTEGRA CONSORZIO STABILE
IDROESSE Engineering S.r.l. - Prometeoengineering.it S.r.l. - ART S.r.l.

RESPONSABILE INTEGRAZIONE PRESTAZIONI SPECIALISTICHE:
Prof. Ing. Antonio GRIMALDI (Progin S.p.A.)

GEOLOGO:
Dott. Geol. Nocerino GIOSAFATTE (Prometeoengineering.it S.r.l.)

COORDINATORE PER LA SICUREZZA IN FASE DI PROGETTAZIONE:
Dott. Ing. Nicola SCIARRA (Proger S.p.A.)

PROJECT MANAGER DELL'R.T.I.:
Dott. Ing. Carlo LISTORTI (Proger S.p.A.)

VISTO: RESPONSABILE DEL PROCEDIMENTO:
Dott. Ing. Antonio SCALAMANDRÈ

CAPOGRUPPO MANDATARIA:
PROGER — Direttore Tecnico: Dott. Ing. Stefano PALLAVICINI

MANDANTI:
PROGIN — Direttore Tecnico: Dott. Ing. Lorenzo INFANTE
INTEGRA — Direttore Tecnico: Prof. Ing. Franco BRAGA
IDROESSE ENGINEERING — Direttore Tecnico: Dott. Ing. Alberto CECCHINI
PROMETEOENGINEERING.IT — Direttore Tecnico: Dott. Ing. Alessandro FOCARACCI
art — Direttore Tecnico: Dott. Ing. Ivo FRESIA

IDRAULICA DEI CORSI D'ACQUA
ALLEGATO IV - RELAZIONE IDRAULICA
Confronto tra i risutltati simulazioni (TR=200 ante operam) con le perimetrazioni del PGRA

CODICE PROGETTO	NOME FILE	REVISIONE	SCALA:
PROGETTO: DPNA0235 LIV. PROG.: D 19	T02ID01IDRRE01_A-Rel_Idraulica_L2_Allegato4.dwg CODICE ELAB.		1:10000

REV.	DESCRIZIONE	DATA	REDATTO	VERIFICATO	APPROVATO
A	EMISSIONE	15/07/2020	BENASSI	MALCOTTI	FRESIA