
INFORME DE ASOLAGAMENTO DO RÍO ZAMÁNS



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1 ANTECEDENTES E OBXECTO

Xestur Pontevedra é a entidade promotora do Proxecto Sectorial do Polígono Industrial de A Pasaxe (Concellos de Gondomar e Vigo) que ten como obxectivo principal, regulariza-la situación de aproximadamente 80 empresas ya implantadas na actualidade na zona.

Con data de 7 de Agosto de 2008, a Comisión Executiva de Xestur Pontevedra adxudica a IDOM SA a redacción do Proxecto Sectorial e de Urbanización.

Con data de Febreiro de 2010, Xestur Pontevedra remitiu a Augas de Galicia un informe redactado por IDOM no que se describían e justificaban as propostas de conexión exterior de abastecemento e saneamento e se anexaba un estudo de asolagamento do río Zamáns do treito de posible afección á algunha das parcelas do ámbito para establece-las restriccións de usos nos solos afectados polas láminas de T=100 e T=500 anos.

Con data de Marzo de 2010, Augas de Galicia remite unha resposta do servizo de Planificación Hidrolóxica na que se consideran axeitadas as propostas de conexións exteriores. En canto ó estudo se asolagamento, se ben se cumpren os criterios mínimos esixidos polo Servizo de Planificación e Programación Hidrolóxica, fixéronse as seguintes observacións:

- A modelización non recolle a modificación xerada polas edificacións existentes nas chairas de inundación.
- Repóllese o estado despois das obras sen analiza-la variación do comportamento hidráulico do río coa actuación a realizar.
- Non se delimitou a Zona de Fluxo Preferente.

O obxecto do presente documento é mellora-lo estudo hidráulico presentado dando resposta ós tres puntos aquí indicados para que o organismo de conca defina as restriccións de usos nos solos afectados polas láminas de asolagamento de 100 e 500 anos.

2 INTRODUCCIÓN

O presente estudo hidrolóxico e hidráulico parte das mesmas bases do primeiro informe redactado:

- Estimación do caudal de avenida para os períodos de recurrencia de 2.33 (MCO), 100 e 500 anos a partir do método racional modificado para grandes concas en base ó recollido pola instrucción 5.2-IC “Drenaje superficial” con algunhas modificacións propostas por J. R. Témez. Las precipitacións de deseño resultan do método rexional.
- Modelización xeométrica do terreno, estruturas e edificacións existentes. Los perfis obtéñense cada 50 metros co programa informático ArcGIS 9.2 sobre cartografía 1/1.000 nas zonas máis próximas ó polígono y 1/5.000 en las inmediacións. O treito estudiado posúe unha lonxitude total de 1408 metros. Posteriormente se interpólanse novos perfís distanciados un promedio de 10 metros.
- Simulación hidráulica mediante o software HEC-RAS (US Army Corps of Engineers) para determina-las láminas de asolagamento e as cotas de máxima avenida.

Para dar resposta a tódolos requerimentos, fixéronse varias modelizacións sobre o mesmo treito xa que deste xeito pódese compara-lo comportamento hidráulico do río antes e despois das obras, así como delimita-la zona de fluxo preferente en virtude do RD 9/2008. Todo isto desenrólase con detalle nos vindeiros epígrafes.

3 ANÁLISE HIDROLÓXICA

3.1 PLUVIOMETRÍA

As precipitacións máximas de deseño obtéñense mediante o método rexional presentado na publicación “Máximas luvias diarias en la España peninsular”, do Ministerio de Fomento (1999). O coeficiente de variación rexional para Galicia é de $Cv=0,35$ ($Cv = \text{desviación} / \text{media}$) dacordo co seguinte mapa da Fig. 1.

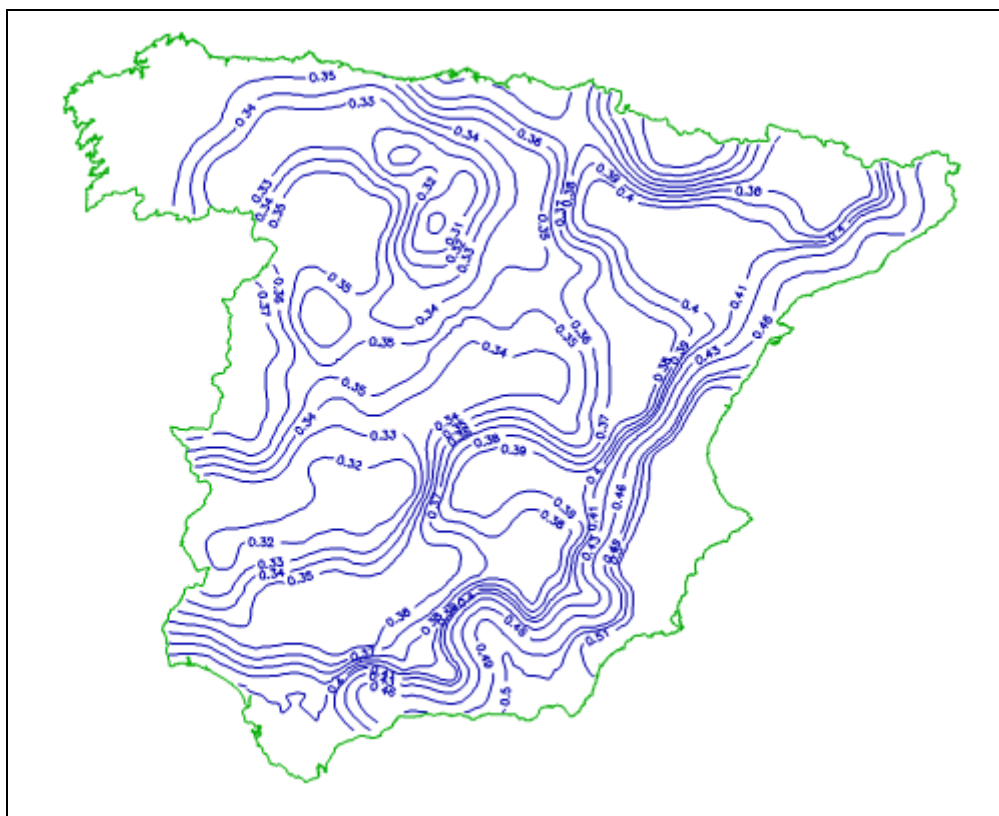


Figura 1: Coeficientes de variación rexional

Para este coeficiente de variación os cuantís da distribución SORT-ET-max resultan:

CV	Y(T=2.33 anos)	Y(T=100 anos)	Y(T=500 anos)
0.35	0.954	2.22	2.831

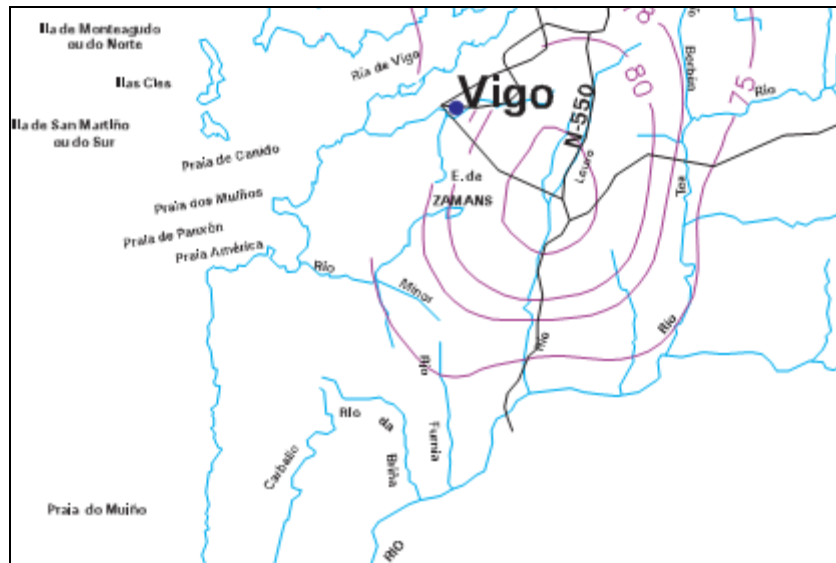


Figura 2: Precipitación medias máximas anuais

A precipitación media máxima rexional para a cunca do Zamáns obtida da Fig. 2 ten un valor promedio de $P=80$ mm. Multiplicando este valor polos cuantís resultan así as seguintes choivas máximas de deseño:

CV	Pd (T=2.33 años)	Pd (T=100 años)	Pd (T=500años)
0.35	76.28	177.60	226.48

3.2 MÉTODO HIDROMETEOROLÓXICO

O método hidrometeorolóxico simula o proceso choiva–escorrentía mediante modelos determinísticos, onde os datos requeridos son fundamentalmente pluviométricos.

Na determinación dos caudais máximos de avenida nas cuncas aplicouse o método proposto por J.R. Témez e recollido no volumen “Cálculo hidrometeorolóxico de caudais máximos en pequenas cuncas” editado por la Dirección Xeneral de Carreteras do M.O.P.T. Este método é o adoptado parcialmente pola Instrucción 5.2 – I.C. “Drenaje Superficial”.

Para o cálculo dos caudais máximos de avenida non se considera o efecto de regulación da presa do Zamáns situada aproximadamente 1.200 m augas arriba do polígono industrial polo que a efectos de determina-la zona inundable esta hipótesis será a máis conservadora.

Tempo de concentración

Sobre as cuncas de drenaxe estimouse un tempo de concentración “Tc”, ou tempo que tarda en saír polo punto de desaugue a derradeira gota de escorrentía debida á precipitación caída nun instante dado, mediante a seguinte expresión do “Soil Conservation Service” (SCS) e que forma parte da citada normativa de drenaxe 5.2-IC do Ministerio:

$$Tc = 0.3 \times ((L/J)^{0.25})^{0.76}$$

Siendo:

- Tc: Tempo de concentración en horas.
- L: Lonxitude do cauce principal da cunca en kilómetros.
- J: pendiente media da cunca en tanto por un (m/m).

No caso de cuncas de drenaxe pequenas e con poca pendiente, o habitual é tomar un tempo de concentración de cinco minutos dado que o fluxo se transporta de modo difuso, sen seguir un curso principal.

Intensidade media de precipitación

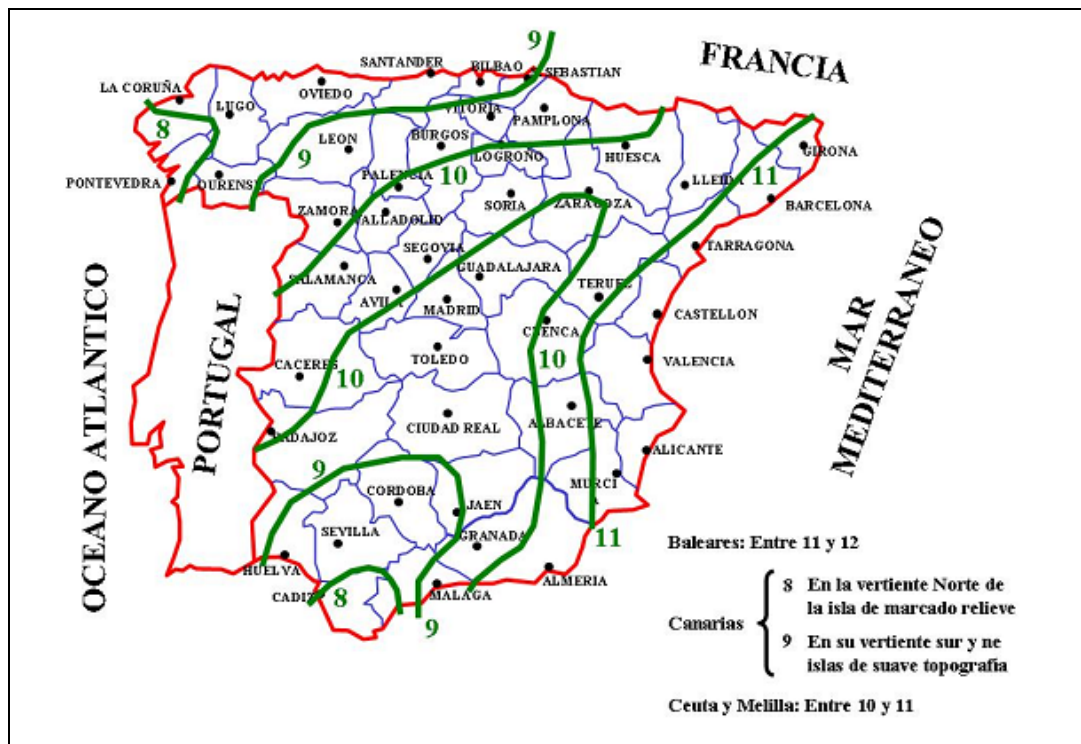


Figura 3: Isolíneas do parámetro I_1/I_a

A intensidade media de precipitación I_t (mm/h) a empregar na estimación de caudais de referencia por métodos hidrometeorolóxicos poderase obter por medio da seguinte fórmula:

$$\frac{I_t}{I_d} = \left(\frac{I_1}{I_d} \right)^{\frac{28-t^{0.1}}{28-1}}$$

Nesta expresión o valor " I_1/I_d ", é un parámetro característico de cada rexión, independentemente do período de retorno e obtenido dacordo co el mapa de isolíneas " I_1/I_d " da Fig. 3.

Onde:

- I_d (mm/h): é a intensidade media diaria de precipitación correspondente ó período de retorno considerado. É igual a $P_d/24$.
- P_d (mm) é a precipitación total diaria correspondente a dito período de retorno.
- I_1 (mm/h): é a intensidade horaria de precipitación correspondiente a dito período de retorno. O valor da razón I_1/I_d poderase tomar do mapa de isolíneas I_1/I_d , que se inclúe neste documento. No noso caso tomaremos como intensidade horaria o valor de 7,8, por atoparse un pouco á esquerda da isolínea de valor igual a 8.
- t (h): é a duración do intervalo ó que se refire I , neste caso úsase o tempo de concentración.

Umbral de escorrentía

Para unha pradeira moi boa con pendente media inferior ó 3% e drenaxe tipo C (imperfecto, infiltración lenta e textura arcillosa), o valor da choiva umbral é de $P_0 = 25$ mm como se pode comprobar na Fig. 4 amosada a continuación.

Estimación inicial del umbral de escorrentía Po (mm)					Estimación inicial del umbral de escorrentía Po (mm)				
USO DE LA TIERRA	PENDIENTE (%)	CARACTERÍSTICAS HIDROLÓGICAS	GRUPO DE SUELO						
			A	B	C	D			
Barbecho	≥ 3	R	15	8	6	4			
	< 3	R/N	20	14	11	8			
Cultivos en hilera	≥ 3	R	23	13	8	6			
	< 3	R/N	25	16	11	8			
Cereales de invierno	≥ 3	R	29	17	10	8			
	< 3	R/N	32	19	12	10			

Nota: N: denota según las curvas de nivel
R: denota cultivos según la línea de la máxima pendiente

TIPO DE TERRENO	PENDIENTE (%)	UMBRAL DE ESCORRENTÍA (mm)
Rocas permeables	≥ 3	3
Rocas permeables	< 3	5
Rocas impermeables	≥ 3	2
Rocas impermeables	< 3	4
Firmes granulares sin pavimento		2
Adoquinados		1,5
Pavimentos bituminosos o de hormigón		1

USO DE LA TIERRA	PENDIENTE (%)	CARACTERÍSTICAS HIDROLÓGICAS	GRUPO DE SUELO			
			A	B	C	D
Rotación de cultivos pobres	≥ 3	R	26	15	9	6
	< 3	R/N	28	17	11	8
Rotación de cultivos densos	≥ 3	R	37	20	12	9
	< 3	R/N	42	23	14	11
Praderas	≥ 3	Pobre	24	14	8	6
		Media	53	23	14	9
		Buena	*	33	18	13
	Muy buena	*	41	22	15	
	< 3	Pobre	58	25	12	7
		Media	*	35	17	10
Buena		*	22	14	14	
Plantaciones regulares aprovechamiento forestal	≥ 3	Pobre	62	26	15	10
		Media	*	34	19	14
		Buena	*	42	22	15
	< 3	Pobre	*	34	19	14
		Media	*	42	22	15
		Buena	*	50	25	16
Masas forestales (bosques, monte bajo, etc.).		Muy clara	40	17	8	5
		Clara	60	24	14	10
		Media	*	34	22	16
		Espesa	*	47	31	23
		Muy espesa	*	65	43	33

Notas:

1. N: denota cultivo según las curvas de nivel.
R: denota cultivo según la línea de máxima pendiente.
2. *: denota que esa parte de cuenca debe considerarse inexistente a efectos de cálculo de caudales de avenida.
3. Las zonas abancaladas se incluirán entre las de pendiente menor del 3%.

Figura 4: Precipitación umbral

Para condición secas, a instrucción de drenaxe 5.2-IC permite multiplicar por 2 (Fig. 4) este valor para a zona noroeste, obténdose una choiva umbral en condicións secas de P0 = 50 mm.



Figura 5: Factor de aumento da choiva umbral en condición secas

O coeficiente C de escorrentía define a proporción da compoñente superficial da precipitación de intensidade I, e depende da razón entre a precipitación diaria Pd correspondiente ó período de retorno e o umbral de escorrentía Po a partir do cal se inicia ésta.

Se a razón Pd/Po fose inferior á unidade, o coeficiente C de escorrentía podería considerarse nulo. En caso contrario, o valor C podería obterse da fórmula:

$$C = ((P_d/P_o - 1) \times (P_d/P_o + 23)) / (P_d/P_o + 11)^2$$

Método racional

O caudal de referencia Q no punto no que desauga un cunca ou superficie obterase mediante a fórmula:

$$Q = (C \times I \times A) / K$$

Nesta fórmula anterior o caudal é función da intensidade do augaceiro e da área da cunca, sendo:

- Q: caudal máximo en m³/s.
- C: coeficiente medio de escorrentía da cunca.
- I: intensidade media da precipitación correspondente ó período de retorno considerado e a un intervalo igual ó tempo de concentración.
- A: superficie da cunca en m².
- K: coeficiente de uniformidade de unidades = 3,6.

O método proposto parte das seguintes hipótesis:

1. A intensidade da precipitación suponse constante durante o tempo de choiva para cada período de retorno.
2. Xeralízase o método para os augaceiros reais incorporando un coeficiente que reflicte a influencia das distribucións habituais da choiva.
3. Exténdese a aplicación do método a cuncas maiores de 3.000 km² coas debidas modificacións da precipitación por área recollidas por Témex mediante as fórmulas:

$$ARF = 1 - (\log(A)/15)$$

$$P = Pd \times ARF$$

$$K = 1 + [Tc^{1.25} / (Tc^{1.25} + 14)]$$

$$Qd = K \times Q$$

4. Sólo se consideran as augas de escorrentía superficial.

A continuación listanse los resultados obtenidos con esta metodología.

Para T=2,33 años (Máxima Crecida Ordinaria):

P _d	76,28	mm/día
P ₀	50,00	mm/día
A	11,51	km ²
ARF	0,93	tanto por uno
P	70,89	mm/día
P/ P ₀	1,42	adimensional
C	0,0662	tanto por uno
L	5,68	Km
J	0,053	tanto por uno
T _c	2,04	h
K	1,15	tanto por uno
I ₁ /I _d	8,00	nº isolinia
I	16,02	mm/h
Q _{2,33}	3,89	m ³ /s

Para T=100 años:

Pd	177,60	mm/día
P0	50,00	mm/día
A	11,51	km ²
ARF	0,93	tanto por uno
P	165,04	mm/día
P/ P0	3,30	adimensional
C	0,2959	tanto por uno
L	5,98	km
J	0,053	tanto por uno
Tc	1,96	h
K	1,14	tanto por uno
I1/Id	8,00	n° isolinéa
I	37,29	mm/h
Q100	40,51	m ³ /s

Para T=500 años:

Pd	226,48	mm/día
P0	50,00	mm/día
A	11,51	km ²
ARF	0,93	tanto por uno
P	210,46	mm/día
P/ P0	4,21	adimensional
C	0,3775	tanto por uno
L	5,98	km
J	0,053	tanto por uno
Tc	2,04	h
K	1,15	tanto por uno
I1/Id	8,00	n° isolínea
I	47,55	mm/h
Q500	65,91	m ³ /s

4 ANÁLISE HIDRÁULICA

4.1 MODELIZACIÓN HIDRÁULICA EN HEC-RAS

En esencia, mantéñense as mesmas bases metodolóxicas e fundamentos da modelización realizada no informe anterior. Non obstante, para dar resposta ás indicacións do servizo de Planificación Hidrolóxica realízase un plantexamento máis detallado. En total, realízanse tres novos modelos hidráulicos adicionais en Hec – Ras:

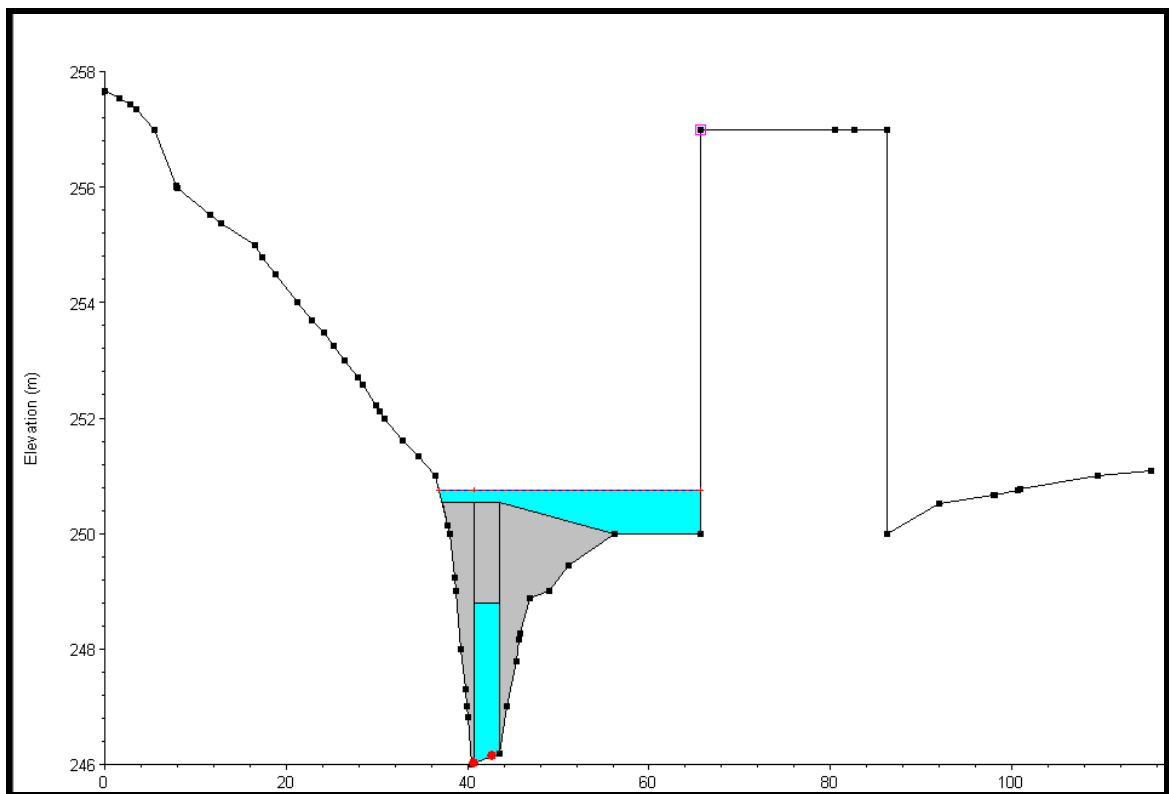
- a) **Modelo 1:** A diferenza do presentado con anterioridade, contéplase o efecto xerado polas edificacións existentes nas chairas de inundación así como a obra de drenaxe existente no pk 873,83 no seu estado actual. Con este modelo reproducécese, polo tanto, o estado real antes das obras.
- b) **Modelo 2:** Reproduce o estado hipotético despois das obras, téndose en conta o derrubo da obra de drenaxe do pk 873,83 que pasa a ser substituída por un muro vertical de formigón nos seus 41,3 m de extensión lonxitudinal.
- c) **Modelo 3:** Trátase dun modelo ficticio que non reproduce ningunha situación real, senon tan só o cauce natural do río Zamáns sen ningunha estrutura, edificación ou actuación antrópica. Emprégase como modelo auxiliar para comparar resultados e delimita-la zona de fluxo preferente en virtude do exposto no RD 9/2008 polo que se modifica o Regulamento do Dominio Público Hidráulico.

No que respecta ó coeficiente de Manning, mantense o establecido no informe inicial, baseado nas recomendacións de Ven Te Chow, que a falta doutros datos pódense considerar realistas e suficientemente conservadores: $n=0,05$ para o cauce do río e $n=0,10$ para as zonas de ribeira.

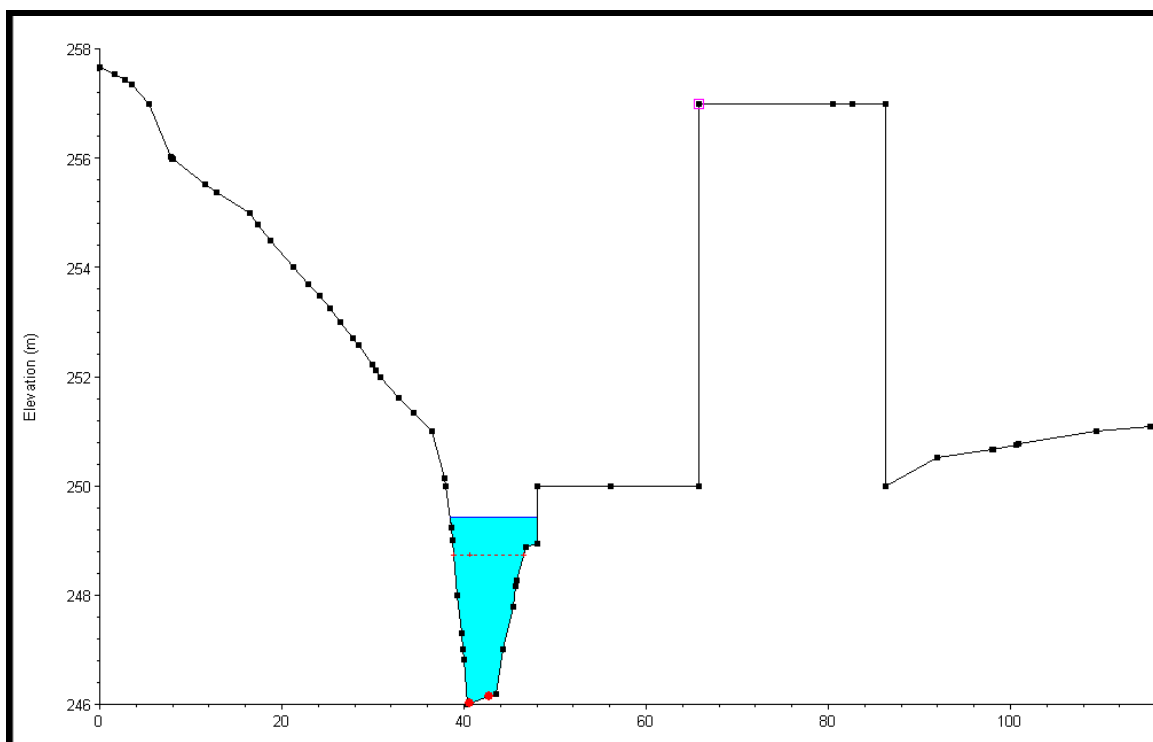




A continuación coméntanse os resultados máis destacados e unha comparativa entre os distintos modelos de cálculo realizados:

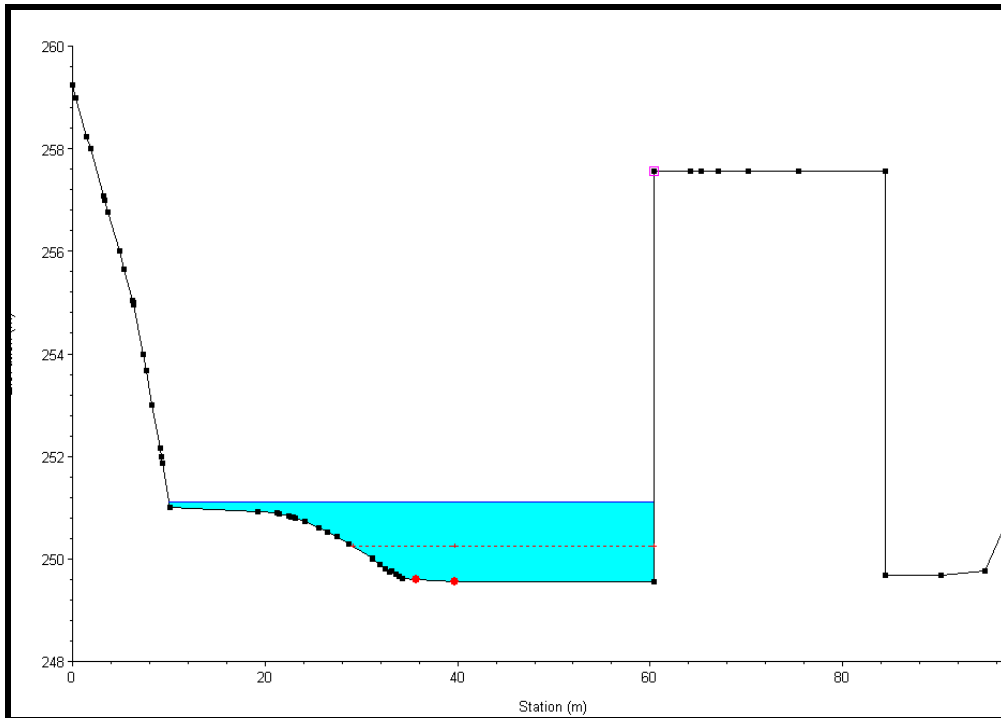


Sección no pk 873,83 correspondente ó momento antes das obras. Obsérvase que a obra de drenaxe existente constitúe un obstáculo importante para caudais de avenida extrema e provoca unha sobreelevación importante da lámina de auga ($Z=250,97$ m).

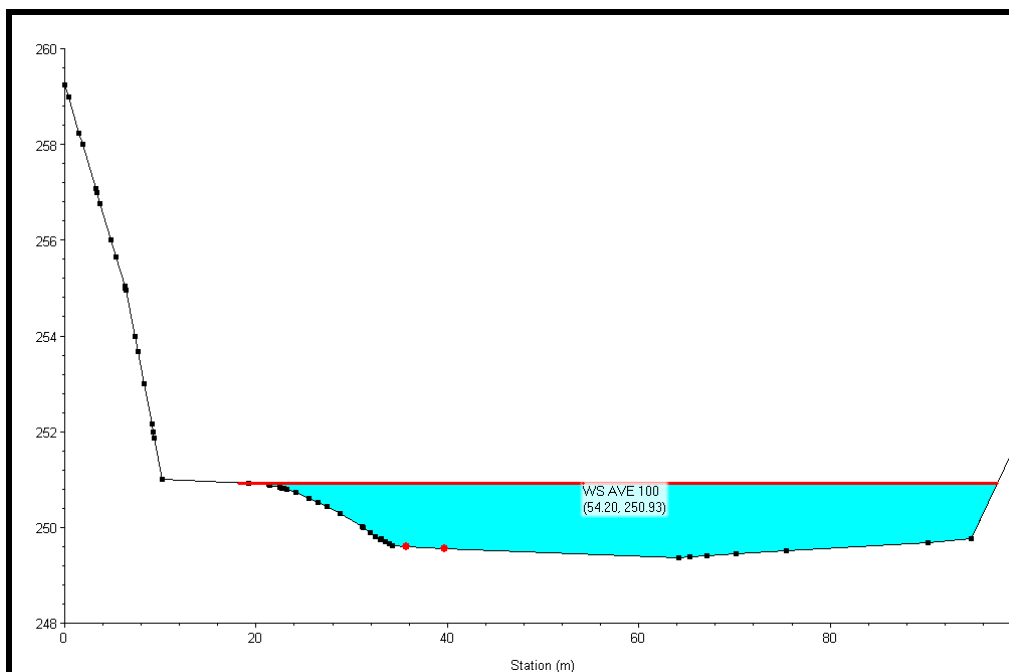


Sección no pk 873,83 correspondente ó momento despois das obras. A obra de drenaxe que canalizaba o río Zamáns suprimese e sustitúese por un muro vertical de formigón a unha distancia tal que se respeta o dominio público hidráulico (MCO). A lámina de auga teórica para $T=100$ anos nestas condicións baixa máis de metro e medio respecto á situación anterior co fluxo obstaculizado ($Z=249,42$ m).

Nas imaxes seguintes recóllese a influencia das edificacións existentes nas chairas de inundación con respecto á situación ideal sen construcións. No caso da avenida de período de retorno de $T=100$ anos, a cota da lámina de auga considerando o efecto das edificacións é de 251,20 m mentres que sen edificacións a lámina teórica acadaría unha cota de 250,49 m. Así pois, as edificacións existentes nas chairas de inundación provocan unha sobre elevación da lámina de auga da orde de 20 cm. Cómpre aclarar que o efecto real é menor que o que se pode prever con estes modelos de cálculo debido a que as edificacións non son elementos estancos, senon que a auga é capaz de percolar neles.



Sección correspondente ó pk 1156,81 na que se contempla o efecto das edificacións existentes na chaira de inundación. Dado que na realidade as edificacións non son estancas, o caso real será algo intermedio entre a modelización con edificacións e a modelización sen edificacións.



Sección correspondente ó pk 1156,81 na que se contempla a situación teórica das chairas de inundación se non estivesen ocupadas parcialmente polas edificacións.

4.2 DELIMITACIÓN DA ZONA DE FLUXO PREFERENTE

No RD 9/2008 establécese que a zona de fluxo preferente é aquela zona constituída pola unión da zona ou zonas onde se concentra preferentemente o fluxo durante as avenidas, ou vía de intenso desaugue, e da zona onde, para a avenida de 100 anos de período de retorno, se poidan producir graves danos sobre as persoas e os bens, quedando delimitado o seu límite exterior mediante a envolvente de ambas zonas.

Neste sentido, considérase que se poden producir graves danos sobre as persoas e os bens cando as condicións hidráulicas durante a avenida satisfagan un ou máis dos seguintes criterios:

- a) Que o calado sexa superior a 1 m.
- a) Que a velocidade sexa superior a 1 m/s.
- b) Que o produto de ambas variables sexa superior a 0,5 m²/s.

Pola súa banda, enténdese por vía de intenso desaugue a zona pola que pasaría a avenida de 100 anos de período de retorno sen producir unha sobreelevación maior de 0,3 m respecto á cota da lámina de auga que se produciría con esa mesma avenida considerando toda a chaira de inundación existente.

Analizados as distintas modelizacións hidráulicas realizadas, das que se inclúen listados de calculo en anexo aparte, en termos de calados e velocidades, conclúese que na case totalidade do treito estudado a zona de fluxo preferente coincide a efectos prácticos coa avenida de 100 anos de período de retorno salvo en certos tramos moi obstaculizados por edificacións ou actuacións antrópicas.

A delimitación desta zona de fluxo preferente recóllese, xunto coas láminas de asolagamento, no anexo II do presente documento onde se especifican aqueles tramos nos que a mencionada zona de fluxo preferente non coincide exactamente coa lámina da avenida de T=100 anos.

ANEXO I: LISTADOS

RESULTADOS MODELIZACIÓN 1

HEC-RAS Plan: Plan 02 River: zamans Reach: unico Profile: AVE 100 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	215.406*	AVE 100	40.51	232.50	233.61	233.40	233.84	0.023448	3.22	24.34	28.23	0.99
unico	210.641*	AVE 100	40.51	232.32	233.52		233.73	0.018852	3.05	25.74	27.77	0.90
unico	205.8760	AVE 100	40.51	232.14	233.47		233.65	0.013661	2.79	28.27	27.67	0.78
unico	200.878*	AVE 100	40.51	231.91	233.34		233.57	0.015344	3.09	26.03	26.13	0.84
unico	195.881*	AVE 100	40.51	231.68	233.18		233.49	0.017302	3.38	23.74	24.19	0.89
unico	190.884*	AVE 100	40.51	231.45	233.01	232.90	233.39	0.019056	3.63	21.74	22.25	0.94
unico	185.887*	AVE 100	40.51	231.23	232.90		233.30	0.017008	3.60	21.71	21.30	0.90
unico	180.8905	AVE 100	40.51	231.00	232.86		233.21	0.012738	3.34	23.25	20.90	0.79
unico	176.976*	AVE 100	40.51	231.05	232.79		233.16	0.015084	3.46	22.32	20.71	0.85
unico	173.061*	AVE 100	40.51	231.10	232.70		233.09	0.018809	3.62	21.09	20.49	0.94
unico	169.147*	AVE 100	40.51	231.15	232.54	232.50	233.00	0.028014	3.98	18.87	20.17	1.11
unico	165.2326	AVE 100	40.51	231.21	232.39	232.39	232.87	0.040012	4.21	17.52	20.39	1.29
unico	160.377*	AVE 100	40.51	230.81	232.08	232.17	232.66	0.043619	4.55	16.57	19.86	1.36
unico	155.523*	AVE 100	40.51	230.41	231.81	231.94	232.44	0.042592	4.71	16.26	19.42	1.36
unico	150.6685	AVE 100	40.51	230.02	231.53	231.70	232.23	0.041521	4.86	15.94	18.85	1.35
unico	145.901*	AVE 100	40.51	229.65	231.01	231.31	231.97	0.062471	5.54	13.60	17.97	1.63
unico	141.134*	AVE 100	40.51	229.28	230.58	230.91	231.64	0.071331	5.75	12.91	17.95	1.73
unico	136.367*	AVE 100	40.51	228.91	230.18	230.52	231.28	0.076397	5.83	12.62	18.22	1.78
unico	131.600*	AVE 100	40.51	228.54	229.77	230.13	230.91	0.079219	5.86	12.52	18.86	1.81
unico	126.8340	AVE 100	40.51	228.17	229.38	229.75	230.52	0.080943	5.85	12.61	20.23	1.82
unico	122.728*	AVE 100	40.51	227.89	229.05	229.41	230.19	0.082031	5.86	12.61	20.22	1.83
unico	118.622*	AVE 100	40.51	227.60	228.70	229.06	229.84	0.087349	5.91	12.39	19.64	1.88
unico	114.5166	AVE 100	40.51	227.32	228.33	228.69	229.46	0.094567	5.95	12.17	18.93	1.95
unico	109.523*	AVE 100	40.51	227.23	228.36	228.50	228.97	0.049487	4.70	16.55	22.24	1.44
unico	104.530*	AVE 100	40.51	227.14	228.28	228.29	228.70	0.037946	4.17	19.13	23.54	1.26
unico	99.53709	AVE 100	40.51	227.05	228.20	228.04	228.49	0.028002	3.65	22.02	24.51	1.09
unico	95.2228*	AVE 100	40.51	226.70	227.90	227.90	228.34	0.035823	4.21	18.78	21.80	1.24
unico	90.9086*	AVE 100	40.51	226.35	227.64	227.71	228.18	0.036214	4.39	17.50	20.25	1.26
unico	86.59440	AVE 100	40.51	226.00	227.29	227.45	227.99	0.043994	4.77	15.25	18.05	1.38
unico	82.6006*	AVE 100	40.51	225.98	227.31	227.34	227.81	0.031890	4.17	17.91	20.28	1.18
unico	78.6068*	AVE 100	40.51	225.96	227.14	227.20	227.67	0.039886	4.32	17.09	20.64	1.30
unico	74.6130*	AVE 100	40.51	225.93	227.02	227.04	227.50	0.040490	4.15	17.54	21.19	1.29
unico	70.61932	AVE 100	40.51	225.91	226.86	226.87	227.32	0.047688	4.15	17.09	21.36	1.38
unico	66.3659*	AVE 100	40.51	225.53	226.62	226.66	227.13	0.040952	4.23	16.99	20.37	1.31
unico	62.1124*	AVE 100	40.51	225.15	226.29	226.42	226.93	0.045865	4.60	15.40	18.50	1.39
unico	57.8590*	AVE 100	40.51	224.77	225.94	226.12	226.72	0.051164	4.93	14.09	16.57	1.47
unico	53.6056*	AVE 100	40.51	224.39	225.62	225.86	226.49	0.053380	5.13	13.41	15.62	1.51
unico	49.35223	AVE 100	40.51	224.02	225.29	225.56	226.25	0.056165	5.32	12.83	14.87	1.56
unico	44.7436*	AVE 100	40.51	223.45	224.88	225.22	225.99	0.050532	5.41	11.94	13.00	1.50
unico	40.1349*	AVE 100	40.51	222.88	224.35	224.78	225.71	0.059443	5.83	10.42	11.16	1.62
unico	35.52638	AVE 100	40.51	222.31	223.80	224.29	225.39	0.070035	6.18	9.38	9.95	1.74
unico	30.8647*	AVE 100	40.51	221.54	223.01	223.60	224.97	0.099507	6.49	7.79	9.88	1.98
unico	26.2030*	AVE 100	40.51	220.77	222.26	222.90	224.42	0.128506	6.59	6.75	9.53	2.14
unico	21.54136	AVE 100	40.51	220.00	221.53	222.18	223.75	0.160051	6.61	6.23	8.40	2.30

RESULTADOS MODELIZACIÓN 2

HEC-RAS Plan: Plan 02 River: zamans Reach: unico

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1408.291	MCO	3.89	252.02	252.68	252.34	252.69	0.002069	0.68	11.59	21.88	0.27
unico	1408.291	AVE 10	14.70	252.02	253.15	252.58	253.18	0.004004	1.36	22.04	23.99	0.41
unico	1408.291	AVE 50	31.01	252.02	253.55	252.84	253.62	0.005774	2.00	32.53	28.29	0.52
unico	1408.291	AVE 100	40.51	252.02	253.75	252.97	253.84	0.006210	2.25	38.35	30.52	0.55
unico	1408.291	AVE 500	65.91	252.02	254.18	253.29	254.31	0.006929	2.77	52.51	35.06	0.60
unico	1404.70*	MCO	3.89	252.02	252.66		252.68	0.004135	0.95	8.12	16.87	0.38
unico	1404.70*	AVE 10	14.70	252.02	253.08		253.16	0.008963	1.96	16.23	22.62	0.61
unico	1404.70*	AVE 50	31.01	252.02	253.44		253.59	0.012076	2.77	25.74	29.33	0.74
unico	1404.70*	AVE 100	40.51	252.02	253.64		253.80	0.011236	2.92	32.04	32.03	0.73
unico	1404.70*	AVE 500	65.91	252.02	254.09		254.27	0.010041	3.25	47.72	37.96	0.72
unico	1401.119	MCO	3.89	252.01	252.64		252.67	0.004198	0.95	7.73	15.16	0.38
unico	1401.119	AVE 10	14.70	252.01	253.02		253.12	0.011042	2.11	14.05	18.71	0.67
unico	1401.119	AVE 50	31.01	252.01	253.24	253.01	253.51	0.024301	3.57	18.58	22.76	1.03
unico	1401.119	AVE 100	40.51	252.01	253.29	253.25	253.71	0.035646	4.44	19.73	23.70	1.26
unico	1401.119	AVE 500	65.91	252.01	253.66	253.66	254.18	0.033956	5.13	29.84	31.17	1.28
unico	1398.42*	MCO	3.89	252.01	252.64		252.65	0.003287	0.82	9.92	23.45	0.34
unico	1398.42*	AVE 10	14.70	252.01	253.03		253.08	0.006587	1.62	20.74	32.69	0.52
unico	1398.42*	AVE 50	31.01	252.01	253.32		253.42	0.010615	2.44	31.52	43.15	0.69
unico	1398.42*	AVE 100	40.51	252.01	253.44		253.57	0.012068	2.76	37.17	47.72	0.74
unico	1398.42*	AVE 500	65.91	252.01	253.69	253.39	253.87	0.014083	3.33	50.21	53.71	0.82
unico	1395.729	MCO	3.89	252.02	252.62		252.64	0.004121	0.89	9.76	28.57	0.37
unico	1395.729	AVE 10	14.70	252.02	253.00		253.06	0.008027	1.74	24.23	62.14	0.57
unico	1395.729	AVE 50	31.01	252.02	253.33		253.38	0.006007	1.83	45.43	67.26	0.52
unico	1395.729	AVE 100	40.51	252.02	253.47		253.53	0.005846	1.93	54.90	69.40	0.52
unico	1395.729	AVE 500	65.91	252.02	253.74		253.81	0.006251	2.25	74.59	74.50	0.55
unico	1391.99*	MCO	3.89	252.02	252.61		252.63	0.003788	0.84	10.21	29.31	0.36
unico	1391.99*	AVE 10	14.70	252.02	252.98		253.03	0.008021	1.71	23.66	56.95	0.56
unico	1391.99*	AVE 50	31.01	252.02	253.31		253.36	0.006136	1.83	45.79	69.72	0.52
unico	1391.99*	AVE 100	40.51	252.02	253.45		253.50	0.005867	1.92	55.71	72.05	0.52
unico	1391.99*	AVE 500	65.91	252.02	253.72		253.79	0.006247	2.23	76.28	78.28	0.55
unico	1388.267	MCO	3.89	252.02	252.60		252.61	0.003378	0.79	10.87	30.67	0.34
unico	1388.267	AVE 10	14.70	252.02	252.96		253.00	0.006881	1.56	24.02	50.22	0.52
unico	1388.267	AVE 50	31.01	252.02	253.29		253.34	0.006206	1.82	46.66	73.81	0.52
unico	1388.267	AVE 100	40.51	252.02	253.43		253.48	0.005772	1.89	57.33	76.21	0.51
unico	1388.267	AVE 500	65.91	252.02	253.70		253.77	0.005916	2.16	78.84	80.84	0.53
unico	1385.20*	MCO	3.89	252.02	252.59		252.60	0.003081	0.75	11.43	31.58	0.32
unico	1385.20*	AVE 10	14.70	252.02	252.94		252.98	0.005755	1.42	24.65	44.62	0.48
unico	1385.20*	AVE 50	31.01	252.02	253.26		253.32	0.006997	1.91	44.49	72.33	0.55
unico	1385.20*	AVE 100	40.51	252.02	253.40		253.46	0.006796	2.02	55.22	79.47	0.55
unico	1385.20*	AVE 500	65.91	252.02	253.68		253.75	0.006477	2.24	78.17	84.76	0.56
unico	1382.151	MCO	3.89	252.02	252.58		252.59	0.002613	0.69	12.31	32.65	0.30
unico	1382.151	AVE 10	14.70	252.02	252.93		252.96	0.005197	1.34	25.70	44.99	0.45
unico	1382.151	AVE 50	31.01	252.02	253.24		253.29	0.006605	1.84	44.84	69.67	0.54
unico	1382.151	AVE 100	40.51	252.02	253.38		253.44	0.006524	1.97	55.05	75.65	0.54
unico	1382.151	AVE 500	65.91	252.02	253.66		253.73	0.006970	2.30	77.21	86.92	0.58
unico	1377.20*	MCO	3.89	252.07	252.57		252.58	0.003835	0.76	11.20	34.58	0.35
unico	1377.20*	AVE 10	14.70	252.07	252.90		252.93	0.006280	1.38	24.61	46.02	0.49
unico	1377.20*	AVE 50	31.01	252.07	253.20		253.26	0.007887	1.91	41.28	64.25	0.58
unico	1377.20*	AVE 100	40.51	252.07	253.34		253.40	0.007831	2.05	50.65	70.10	0.59
unico	1377.20*	AVE 500	65.91	252.07	253.61		253.69	0.008476	2.43	70.63	80.35	0.63
unico	1372.258	MCO	3.89	252.12	252.54		252.56	0.004942	0.77	10.51	36.22	0.39
unico	1372.258	AVE 10	14.70	252.12	252.87		252.90	0.007210	1.37	23.84	46.61	0.51
unico	1372.258	AVE 50	31.01	252.12	253.16		253.22	0.008425	1.86	39.21	57.99	0.59
unico	1372.258	AVE 100	40.51	252.12	253.30		253.36	0.008745	2.06	47.46	63.90	0.61
unico	1372.258	AVE 500	65.91	252.12	253.55		253.64	0.010076	2.52	65.06	74.23	0.68
unico	1368.61*	MCO	3.89	252.12	252.52		252.54	0.005716	0.79	10.04	35.93	0.41
unico	1368.61*	AVE 10	14.70	252.12	252.84		252.87	0.008264	1.41	22.64	45.18	0.54
unico	1368.61*	AVE 50	31.01	252.12	253.12		253.18	0.009818	1.95	37.43	58.37	0.63
unico	1368.61*	AVE 100	40.51	252.12	253.26		253.33	0.010062	2.15	45.73	65.38	0.65
unico	1368.61*	AVE 500	65.91	252.12	253.51		253.60	0.011178	2.59	63.49	75.89	0.71
unico	1364.96*	MCO	3.89	252.13	252.50		252.51	0.006967	0.82	9.44	36.05	0.45
unico	1364.96*	AVE 10	14.70	252.13	252.80		252.84	0.009657	1.47	21.42	44.07	0.58
unico	1364.96*	AVE 50	31.01	252.13	253.08		253.14	0.011840	2.06	35.06	57.46	0.69
unico	1364.96*	AVE 100	40.51	252.13	253.21		253.29	0.012295	2.29	43.15	67.05	0.71
unico	1364.96*	AVE 500	65.91	252.13	253.46		253.56	0.012797	2.69	61.16	77.19	0.75
unico	1361.324	MCO	3.89	252.14	252.47		252.48	0.009707	0.88	8.50	36.26	0.51
unico	1361.324	AVE 10	14.70	252.14	252.76		252.80	0.012036	1.54	20.00	43.58	0.64
unico	1361.324	AVE 50	31.01	252.14	253.02		253.10	0.013832	2.12	32.59	52.83	0.73
unico	1361.324	AVE 100	40.51	252.14	253.14		253.23	0.016274	2.50	39.31	66.91	0.81
unico	1361.324	AVE 500	65.91	252.14	253.39		253.51	0.015445	2.84	57.84	78.22	0.82

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1356.78*	MCO	3.89	252.12	252.42		252.44	0.010454	0.88	8.52	37.18	0.53
unico	1356.78*	AVE 10	14.70	252.12	252.70		252.74	0.012854	1.54	19.87	44.78	0.66
unico	1356.78*	AVE 50	31.01	252.12	252.95		253.03	0.015437	2.17	32.82	59.59	0.77
unico	1356.78*	AVE 100	40.51	252.12	253.07		253.16	0.015947	2.40	40.17	67.91	0.80
unico	1356.78*	AVE 500	65.91	252.12	253.33		253.43	0.014514	2.71	59.12	77.33	0.79
unico	1352.24*	MCO	3.89	252.09	252.38		252.39	0.010810	0.87	8.64	38.18	0.53
unico	1352.24*	AVE 10	14.70	252.09	252.64		252.68	0.014147	1.56	19.74	47.61	0.68
unico	1352.24*	AVE 50	31.01	252.09	252.89		252.96	0.015542	2.12	33.54	62.81	0.76
unico	1352.24*	AVE 100	40.51	252.09	253.01		253.08	0.015019	2.28	41.26	67.75	0.77
unico	1352.24*	AVE 500	65.91	252.09	253.27		253.37	0.013422	2.57	60.60	76.41	0.76
unico	1347.70*	MCO	3.89	252.06	252.32		252.34	0.012978	0.91	8.35	39.94	0.58
unico	1347.70*	AVE 10	14.70	252.06	252.57		252.61	0.015845	1.59	19.76	52.09	0.72
unico	1347.70*	AVE 50	31.01	252.06	252.82		252.89	0.015063	2.03	34.41	64.18	0.75
unico	1347.70*	AVE 100	40.51	252.06	252.95		253.02	0.014021	2.17	42.49	67.92	0.74
unico	1347.70*	AVE 500	65.91	252.06	253.22		253.31	0.012309	2.44	62.36	76.03	0.73
unico	1343.168	MCO	3.89	252.03	252.23		252.26	0.027055	1.09	6.85	42.37	0.80
unico	1343.168	AVE 10	14.70	252.03	252.50		252.54	0.016888	1.54	19.84	53.64	0.73
unico	1343.168	AVE 50	31.01	252.03	252.76		252.82	0.013969	1.90	35.59	64.44	0.71
unico	1343.168	AVE 100	40.51	252.03	252.89		252.95	0.012740	2.03	44.05	67.96	0.70
unico	1343.168	AVE 500	65.91	252.03	253.17		253.25	0.011119	2.29	64.43	75.65	0.69
unico	1338.58*	MCO	3.89	251.85	252.07	252.00	252.11	0.038409	1.35	4.93	25.49	0.96
unico	1338.58*	AVE 10	14.70	251.85	252.36		252.44	0.025984	2.02	15.37	43.96	0.92
unico	1338.58*	AVE 50	31.01	251.85	252.65		252.74	0.018885	2.34	30.02	57.04	0.84
unico	1338.58*	AVE 100	40.51	251.85	252.78		252.88	0.017423	2.49	37.98	63.97	0.83
unico	1338.58*	AVE 500	65.91	251.85	253.09		253.19	0.013514	2.66	59.49	75.25	0.77
unico	1333.99*	MCO	3.89	251.66	251.87	251.80	251.92	0.046359	1.39	4.28	20.58	1.04
unico	1333.99*	AVE 10	14.70	251.66	252.21	252.06	252.31	0.029828	2.24	13.29	34.61	0.99
unico	1333.99*	AVE 50	31.01	251.66	252.51	252.35	252.64	0.023128	2.67	25.79	47.80	0.94
unico	1333.99*	AVE 100	40.51	251.66	252.65		252.79	0.020939	2.82	32.82	53.36	0.92
unico	1333.99*	AVE 500	65.91	251.66	252.96		253.12	0.018097	3.15	51.48	69.89	0.89
unico	1329.412	MCO	3.89	251.48	251.72		251.76	0.027051	1.17	4.94	18.97	0.81
unico	1329.412	AVE 10	14.70	251.48	252.10		252.19	0.023020	2.12	13.90	31.39	0.89
unico	1329.412	AVE 50	31.01	251.48	252.41		252.54	0.020853	2.68	25.37	42.61	0.90
unico	1329.412	AVE 100	40.51	251.48	252.54		252.70	0.019972	2.88	31.52	47.08	0.91
unico	1329.412	AVE 500	65.91	251.48	252.84		253.03	0.019090	3.34	47.41	59.13	0.92
unico	1324.97*	MCO	3.89	251.25	251.70		251.71	0.004456	0.77	9.11	23.55	0.37
unico	1324.97*	AVE 10	14.70	251.25	252.07		252.12	0.007656	1.52	20.22	35.32	0.54
unico	1324.97*	AVE 50	31.01	251.25	252.38		252.47	0.010057	2.15	32.61	46.78	0.65
unico	1324.97*	AVE 100	40.51	251.25	252.51		252.62	0.010604	2.39	39.30	51.65	0.68
unico	1324.97*	AVE 500	65.91	251.25	252.81		252.95	0.011496	2.87	56.29	63.43	0.74
unico	1320.544	MCO	3.89	251.02	251.70		251.70	0.001062	0.50	15.55	30.83	0.20
unico	1320.544	AVE 10	14.70	251.02	252.07		252.10	0.002908	1.12	28.84	41.43	0.35
unico	1320.544	AVE 50	31.01	251.02	252.37		252.43	0.004541	1.65	42.92	51.02	0.45
unico	1320.544	AVE 100	40.51	251.02	252.51		252.57	0.005194	1.88	50.12	55.65	0.49
unico	1320.544	AVE 500	65.91	251.02	252.80		252.90	0.006268	2.33	68.02	65.49	0.56
unico	1317.15*	MCO	3.89	251.19	251.69		251.70	0.001968	0.54	13.30	30.91	0.25
unico	1317.15*	AVE 10	14.70	251.19	252.06		252.08	0.004123	1.14	26.47	41.10	0.40
unico	1317.15*	AVE 50	31.01	251.19	252.36		252.41	0.005871	1.67	40.37	51.20	0.50
unico	1317.15*	AVE 100	40.51	251.19	252.49		252.55	0.006489	1.89	47.49	55.66	0.54
unico	1317.15*	AVE 500	65.91	251.19	252.78		252.87	0.007451	2.33	65.21	66.04	0.59
unico	1313.77*	MCO	3.89	251.37	251.68		251.69	0.003991	0.51	10.99	30.69	0.32
unico	1313.77*	AVE 10	14.70	251.37	252.04		252.07	0.006224	1.14	23.96	41.81	0.46
unico	1313.77*	AVE 50	31.01	251.37	252.34		252.39	0.007693	1.65	37.72	51.00	0.55
unico	1313.77*	AVE 100	40.51	251.37	252.47		252.53	0.008190	1.86	44.72	55.24	0.58
unico	1313.77*	AVE 500	65.91	251.37	252.76		252.85	0.008925	2.29	62.11	65.60	0.63
unico	1310.385	MCO	3.89	251.54	251.66		251.67	0.008286	0.27	8.72	27.34	0.36
unico	1310.385	AVE 10	14.70	251.54	252.01		252.04	0.010030	1.06	21.14	41.59	0.55
unico	1310.385	AVE 50	31.01	251.54	252.31		252.36	0.010445	1.58	34.61	50.58	0.61
unico	1310.385	AVE 100	40.51	251.54	252.44		252.50	0.010648	1.79	41.49	54.54	0.64
unico	1310.385	AVE 500	65.91	251.54	252.73		252.81	0.010846	2.22	58.56	63.71	0.68
unico	1306.01*	MCO	3.89	251.47	251.62		251.63	0.009434	0.35	8.36	27.84	0.40
unico	1306.01*	AVE 10	14.70	251.47	251.97		252.00	0.010880	1.17	20.48	42.52	0.58
unico	1306.01*	AVE 50	31.01	251.47	252.26		252.31	0.010937	1.67	34.37	51.64	0.63
unico	1306.01*	AVE 100	40.51	251.47	252.39		252.45	0.011042	1.87	41.37	55.85	0.65
unico	1306.01*	AVE 500	65.91	251.47	252.68		252.77	0.011022	2.28	59.02	66.26	0.68
unico	1301.63*	MCO	3.89	251.40	251.58		251.59	0.010864	0.49	7.93	28.24	0.46
unico	1301.63*	AVE 10	14.70	251.40	251.91		251.95	0.011854	1.27	20.04	44.32	0.61
unico	1301.63*	AVE 50	31.01	251.40	252.21		252.26	0.011276	1.74	34.45	53.23	0.64
unico	1301.63*	AVE 100	40.51	251.40	252.34		252.40	0.011265	1.94	41.69	58.03	0.66

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1301.63*	AVE 500	65.91	251.40	252.63		252.72	0.010794	2.30	60.21	67.74	0.68
unico	1297.265	MCO	3.89	251.32	251.52		251.54	0.012955	0.63	7.44	28.54	0.53
unico	1297.265	AVE 10	14.70	251.32	251.86		251.89	0.012364	1.36	19.98	45.82	0.63
unico	1297.265	AVE 50	31.01	251.32	252.16		252.21	0.011262	1.79	34.96	55.36	0.65
unico	1297.265	AVE 100	40.51	251.32	252.29		252.36	0.011089	1.98	42.69	61.13	0.66
unico	1297.265	AVE 500	65.91	251.32	252.59		252.67	0.010137	2.28	62.14	68.78	0.66
unico	1293.01*	MCO	3.89	251.21	251.46		251.48	0.013714	0.88	7.36	31.83	0.59
unico	1293.01*	AVE 10	14.70	251.21	251.81		251.85	0.010800	1.43	21.18	47.62	0.60
unico	1293.01*	AVE 50	31.01	251.21	252.11		252.17	0.009662	1.80	37.80	59.57	0.61
unico	1293.01*	AVE 100	40.51	251.21	252.25		252.31	0.009310	1.95	46.08	63.09	0.62
unico	1293.01*	AVE 500	65.91	251.21	252.55		252.63	0.008690	2.24	66.48	71.26	0.62
unico	1288.76*	MCO	3.89	251.10	251.42		251.44	0.007693	0.82	9.44	36.70	0.46
unico	1288.76*	AVE 10	14.70	251.10	251.78		251.81	0.007116	1.29	24.91	51.11	0.50
unico	1288.76*	AVE 50	31.01	251.10	252.09		252.13	0.007111	1.66	42.53	62.29	0.54
unico	1288.76*	AVE 100	40.51	251.10	252.22		252.27	0.007158	1.82	51.27	66.49	0.55
unico	1288.76*	AVE 500	65.91	251.10	252.53		252.59	0.006999	2.12	73.23	76.17	0.57
unico	1284.514	MCO	3.89	250.98	251.41		251.42	0.002534	0.57	13.92	40.39	0.28
unico	1284.514	AVE 10	14.70	250.98	251.76		251.78	0.004103	1.08	30.40	54.82	0.39
unico	1284.514	AVE 50	31.01	250.98	252.07		252.10	0.004865	1.47	49.26	66.87	0.45
unico	1284.514	AVE 100	40.51	250.98	252.20		252.24	0.005040	1.62	58.59	70.37	0.47
unico	1284.514	AVE 500	65.91	250.98	252.51		252.56	0.005209	1.91	81.36	77.96	0.49
unico	1280.10*	MCO	3.89	250.95	251.40		251.41	0.002321	0.57	14.28	40.58	0.27
unico	1280.10*	AVE 10	14.70	250.95	251.74		251.76	0.004039	1.09	30.62	55.40	0.39
unico	1280.10*	AVE 50	31.01	250.95	252.05		252.08	0.004831	1.48	49.28	66.71	0.45
unico	1280.10*	AVE 100	40.51	250.95	252.18		252.22	0.005046	1.63	58.52	70.38	0.47
unico	1280.10*	AVE 500	65.91	250.95	252.49		252.54	0.005237	1.93	81.22	78.06	0.50
unico	1275.70*	MCO	3.89	250.91	251.39		251.40	0.001987	0.54	15.10	41.85	0.25
unico	1275.70*	AVE 10	14.70	250.91	251.73		251.75	0.003722	1.06	31.43	55.70	0.38
unico	1275.70*	AVE 50	31.01	250.91	252.03		252.06	0.004641	1.46	49.89	66.76	0.44
unico	1275.70*	AVE 100	40.51	250.91	252.16		252.20	0.004933	1.62	59.08	70.98	0.46
unico	1275.70*	AVE 500	65.91	250.91	252.47		252.52	0.005220	1.93	82.08	80.16	0.50
unico	1271.296	MCO	3.89	250.88	251.39		251.39	0.001605	0.50	16.39	43.89	0.23
unico	1271.296	AVE 10	14.70	250.88	251.71		251.73	0.003313	1.00	32.99	57.44	0.36
unico	1271.296	AVE 50	31.01	250.88	252.01		252.04	0.004314	1.41	51.81	69.39	0.43
unico	1271.296	AVE 100	40.51	250.88	252.14		252.18	0.004585	1.57	61.29	73.37	0.45
unico	1271.296	AVE 500	65.91	250.88	252.45		252.50	0.004749	1.84	84.68	79.65	0.47
unico	1267.25*	MCO	3.89	250.92	251.38		251.38	0.002480	0.57	13.78	39.64	0.28
unico	1267.25*	AVE 10	14.70	250.92	251.69		251.71	0.004903	1.16	28.44	53.39	0.43
unico	1267.25*	AVE 50	31.01	250.92	251.98		252.02	0.006056	1.60	45.61	65.08	0.50
unico	1267.25*	AVE 100	40.51	250.92	252.11		252.16	0.006413	1.78	54.39	70.11	0.52
unico	1267.25*	AVE 500	65.91	250.92	252.41		252.47	0.006362	2.07	77.11	78.99	0.54
unico	1263.22*	MCO	3.89	250.97	251.36		251.37	0.003806	0.64	11.86	37.27	0.33
unico	1263.22*	AVE 10	14.70	250.97	251.66		251.69	0.007012	1.29	24.53	48.23	0.50
unico	1263.22*	AVE 50	31.01	250.97	251.94		251.99	0.008725	1.81	39.55	60.01	0.59
unico	1263.22*	AVE 100	40.51	250.97	252.06		252.12	0.009043	2.00	47.44	64.51	0.61
unico	1263.22*	AVE 500	65.91	250.97	252.36		252.44	0.008833	2.33	68.47	75.48	0.63
unico	1259.18*	MCO	3.89	251.01	251.34		251.35	0.006556	0.76	9.99	36.12	0.43
unico	1259.18*	AVE 10	14.70	251.01	251.62		251.65	0.010234	1.44	21.30	44.91	0.59
unico	1259.18*	AVE 50	31.01	251.01	251.88		251.94	0.012290	2.01	34.18	53.93	0.69
unico	1259.18*	AVE 100	40.51	251.01	252.00		252.08	0.012959	2.25	40.98	58.60	0.72
unico	1259.18*	AVE 500	65.91	251.01	252.30		252.40	0.012109	2.60	60.02	68.64	0.73
unico	1255.148	MCO	3.89	251.06	251.28		251.30	0.021325	1.06	6.91	34.45	0.72
unico	1255.148	AVE 10	14.70	251.06	251.54		251.59	0.021810	1.79	16.60	42.04	0.83
unico	1255.148	AVE 50	31.01	251.06	251.79		251.88	0.021203	2.34	28.11	49.76	0.88
unico	1255.148	AVE 100	40.51	251.06	251.91		252.01	0.020519	2.55	34.21	52.81	0.89
unico	1255.148	AVE 500	65.91	251.06	252.21		252.34	0.017371	2.89	51.66	61.55	0.86
unico	1250.30*	MCO	3.89	250.91	251.16		251.19	0.023814	1.22	6.59	33.85	0.78
unico	1250.30*	AVE 10	14.70	250.91	251.42		251.48	0.022984	1.92	16.04	40.37	0.86
unico	1250.30*	AVE 50	31.01	250.91	251.66		251.77	0.022898	2.50	26.73	46.70	0.92
unico	1250.30*	AVE 100	40.51	250.91	251.78		251.90	0.022310	2.72	32.49	49.72	0.93
unico	1250.30*	AVE 500	65.91	250.91	252.11		252.25	0.018065	3.03	50.27	59.93	0.88
unico	1245.45*	MCO	3.89	250.75	251.02		251.06	0.030032	1.37	5.72	31.58	0.88
unico	1245.45*	AVE 10	14.70	250.75	251.29		251.36	0.025516	2.05	15.32	39.39	0.91
unico	1245.45*	AVE 50	31.01	250.75	251.54	251.37	251.65	0.024734	2.62	25.70	44.90	0.96
unico	1245.45*	AVE 100	40.51	250.75	251.66	251.46	251.79	0.023456	2.83	31.49	47.80	0.96
unico	1245.45*	AVE 500	65.91	250.75	252.02		252.16	0.017369	3.05	50.43	59.00	0.87
unico	1240.612	MCO	3.89	250.60	250.87	250.77	250.91	0.033258	1.32	5.09	25.84	0.90
unico	1240.612	AVE 10	14.70	250.60	251.13	251.04	251.22	0.034286	2.25	13.62	37.81	1.04
unico	1240.612	AVE 50	31.01	250.60	251.41	251.25	251.53	0.025413	2.65	25.32	44.15	0.97

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1240.612	AVE 100	40.51	250.60	251.55	251.34	251.68	0.022549	2.80	31.73	47.10	0.94
unico	1240.612	AVE 500	65.91	250.60	251.95		252.08	0.015615	2.97	52.18	59.36	0.83
unico	1236.07*	MCO	3.89	250.41	250.65	250.62	250.72	0.051421	1.67	4.27	23.00	1.13
unico	1236.07*	AVE 10	14.70	250.41	250.98	250.88	251.08	0.026973	2.21	13.79	35.00	0.95
unico	1236.07*	AVE 50	31.01	250.41	251.30		251.43	0.020350	2.61	26.15	42.21	0.89
unico	1236.07*	AVE 100	40.51	250.41	251.46		251.59	0.018171	2.74	32.84	45.32	0.86
unico	1236.07*	AVE 500	65.91	250.41	251.87		252.01	0.013857	3.00	53.90	61.25	0.80
unico	1231.53*	MCO	3.89	250.21	250.58		250.61	0.012893	1.13	6.69	25.13	0.61
unico	1231.53*	AVE 10	14.70	250.21	250.92		250.99	0.013166	1.80	16.89	34.11	0.69
unico	1231.53*	AVE 50	31.01	250.21	251.24		251.35	0.013581	2.35	28.85	41.03	0.75
unico	1231.53*	AVE 100	40.51	250.21	251.40		251.52	0.013157	2.55	35.45	44.32	0.75
unico	1231.53*	AVE 500	65.91	250.21	251.80		251.95	0.012133	2.99	56.45	64.95	0.76
unico	1227.002	MCO	3.89	250.02	250.57		250.58	0.002825	0.69	11.01	27.53	0.30
unico	1227.002	AVE 10	14.70	250.02	250.90		250.95	0.006112	1.42	21.35	34.27	0.49
unico	1227.002	AVE 50	31.01	250.02	251.21		251.29	0.008476	2.04	32.91	40.62	0.60
unico	1227.002	AVE 100	40.51	250.02	251.36		251.46	0.009001	2.28	39.29	43.92	0.63
unico	1227.002	AVE 500	65.91	250.02	251.75		251.90	0.010751	2.96	60.00	72.90	0.72
unico	1222.11*	MCO	3.89	250.07	250.55		250.56	0.004079	0.77	10.43	31.14	0.36
unico	1222.11*	AVE 10	14.70	250.07	250.87		250.91	0.006908	1.42	21.38	35.64	0.51
unico	1222.11*	AVE 50	31.01	250.07	251.17		251.25	0.009171	2.02	32.56	40.26	0.62
unico	1222.11*	AVE 100	40.51	250.07	251.32		251.42	0.010145	2.32	38.74	45.13	0.67
unico	1222.11*	AVE 500	65.91	250.07	251.71		251.84	0.010194	2.80	61.06	68.90	0.70
unico	1217.23*	MCO	3.89	250.11	250.53		250.54	0.004556	0.73	10.69	33.08	0.37
unico	1217.23*	AVE 10	14.70	250.11	250.84		250.88	0.007321	1.36	21.49	35.75	0.52
unico	1217.23*	AVE 50	31.01	250.11	251.13		251.20	0.010031	2.00	32.35	41.11	0.64
unico	1217.23*	AVE 100	40.51	250.11	251.27		251.36	0.011185	2.31	38.45	46.37	0.69
unico	1217.23*	AVE 500	65.91	250.11	251.68		251.79	0.010146	2.69	61.65	68.80	0.69
unico	1212.354	MCO	3.89	250.16	250.51	250.26	250.52	0.004004	0.61	11.38	33.74	0.34
unico	1212.354	AVE 10	14.70	250.16	250.81	250.46	250.84	0.007372	1.27	21.94	36.66	0.51
unico	1212.354	AVE 50	31.01	250.16	251.08	250.66	251.15	0.010458	1.92	32.42	41.45	0.64
unico	1212.354	AVE 100	40.51	250.16	251.22	250.75	251.30	0.011728	2.23	38.38	46.64	0.70
unico	1212.354	AVE 500	65.91	250.16	251.63	250.97	251.73	0.010073	2.59	62.23	69.91	0.68
unico	1208.33*	MCO	3.89	250.18	250.49		250.50	0.005783	0.67	10.31	35.28	0.40
unico	1208.33*	AVE 10	14.70	250.18	250.77		250.80	0.009774	1.37	20.83	39.99	0.58
unico	1208.33*	AVE 50	31.01	250.18	251.04		251.10	0.012118	1.96	32.36	46.34	0.68
unico	1208.33*	AVE 100	40.51	250.18	251.17		251.25	0.012451	2.20	38.88	50.47	0.71
unico	1208.33*	AVE 500	65.91	250.18	251.60		251.69	0.009360	2.43	66.24	77.28	0.65
unico	1204.32*	MCO	3.89	250.19	250.46		250.47	0.008667	0.74	9.41	38.60	0.47
unico	1204.32*	AVE 10	14.70	250.19	250.73		250.76	0.011693	1.39	20.45	44.60	0.62
unico	1204.32*	AVE 50	31.01	250.19	250.99		251.05	0.012521	1.89	32.71	48.63	0.69
unico	1204.32*	AVE 100	40.51	250.19	251.12		251.20	0.012723	2.13	39.53	53.77	0.71
unico	1204.32*	AVE 500	65.91	250.19	251.58		251.65	0.008288	2.24	71.23	82.78	0.61
unico	1200.308	MCO	3.89	250.21	250.42		250.43	0.011261	0.69	8.57	40.97	0.51
unico	1200.308	AVE 10	14.70	250.21	250.68		250.71	0.012830	1.32	20.28	46.78	0.63
unico	1200.308	AVE 50	31.01	250.21	250.94		251.00	0.012817	1.80	33.00	50.34	0.68
unico	1200.308	AVE 100	40.51	250.21	251.07		251.15	0.013689	2.08	40.05	59.37	0.73
unico	1200.308	AVE 500	65.91	250.21	251.56		251.62	0.007478	2.09	77.10	90.60	0.58
unico	1196.18*	MCO	3.89	250.16	250.37		250.38	0.013129	0.78	8.50	43.32	0.56
unico	1196.18*	AVE 10	14.70	250.16	250.62		250.66	0.013745	1.38	19.92	46.77	0.66
unico	1196.18*	AVE 50	31.01	250.16	250.88		250.94	0.014481	1.92	33.36	59.56	0.73
unico	1196.18*	AVE 100	40.51	250.16	251.02		251.09	0.013113	2.06	42.32	67.41	0.71
unico	1196.18*	AVE 500	65.91	250.16	251.54		251.59	0.005954	1.90	83.73	92.53	0.52
unico	1192.06*	MCO	3.89	250.10	250.31		250.33	0.014094	0.83	8.49	43.54	0.58
unico	1192.06*	AVE 10	14.70	250.10	250.56		250.60	0.015148	1.46	20.23	54.17	0.69
unico	1192.06*	AVE 50	31.01	250.10	250.83		250.89	0.012373	1.80	36.63	65.97	0.67
unico	1192.06*	AVE 100	40.51	250.10	250.98		251.04	0.010402	1.87	47.07	71.81	0.64
unico	1192.06*	AVE 500	65.91	250.10	251.52		251.56	0.004594	1.71	91.58	94.57	0.46
unico	1187.93*	MCO	3.89	250.04	250.25		250.27	0.014835	0.86	8.88	50.34	0.60
unico	1187.93*	AVE 10	14.70	250.04	250.51		250.54	0.011379	1.29	23.33	60.38	0.60
unico	1187.93*	AVE 50	31.01	250.04	250.80		250.84	0.008831	1.56	42.09	70.17	0.57
unico	1187.93*	AVE 100	40.51	250.04	250.96		251.00	0.007364	1.62	53.56	74.23	0.54
unico	1187.93*	AVE 500	65.91	250.04	251.51		251.54	0.003438	1.52	100.52	95.70	0.40
unico	1183.816	MCO	3.89	249.98	250.22		250.23	0.005729	0.58	12.77	56.63	0.38
unico	1183.816	AVE 10	14.70	249.98	250.49		250.50	0.006500	1.02	28.83	64.80	0.46
unico	1183.816	AVE 50	31.01	249.98	250.78		250.81	0.005749	1.30	49.16	72.96	0.47
unico	1183.816	AVE 100	40.51	249.98	250.94		250.97	0.005037	1.38	61.26	76.50	0.45
unico	1183.816	AVE 500	65.91	249.98	251.50		251.53	0.002540	1.33	110.02	95.53	0.34
unico	1179.34*	MCO	3.89	249.99	250.19		250.20	0.008711	0.64	11.34	57.14	0.46
unico	1179.34*	AVE 10	14.70	249.99	250.45		250.47	0.007780	1.06	28.06	68.85	0.50

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1179.34*	AVE 50	31.01	249.99	250.75		250.78	0.005922	1.29	49.98	77.01	0.47
unico	1179.34*	AVE 100	40.51	249.99	250.92		250.95	0.004973	1.34	63.20	81.14	0.44
unico	1179.34*	AVE 500	65.91	249.99	251.49		251.52	0.002287	1.26	113.74	96.17	0.33
unico	1174.86*	MCO	3.89	249.99	250.15		250.15	0.009894	0.58	11.36	61.38	0.47
unico	1174.86*	AVE 10	14.70	249.99	250.42		250.44	0.006938	0.95	29.64	70.88	0.46
unico	1174.86*	AVE 50	31.01	249.99	250.73		250.75	0.005131	1.17	53.16	79.71	0.44
unico	1174.86*	AVE 100	40.51	249.99	250.90		250.93	0.004224	1.22	66.99	82.13	0.41
unico	1174.86*	AVE 500	65.91	249.99	251.49		251.51	0.001974	1.16	118.26	95.30	0.30
unico	1170.396	MCO	3.89	249.99	250.11		250.12	0.006735	0.40	13.32	67.64	0.37
unico	1170.396	AVE 10	14.70	249.99	250.40		250.41	0.004892	0.77	34.16	76.09	0.38
unico	1170.396	AVE 50	31.01	249.99	250.72		250.73	0.003709	0.98	58.45	77.35	0.37
unico	1170.396	AVE 100	40.51	249.99	250.89		250.91	0.003210	1.05	71.92	78.04	0.36
unico	1170.396	AVE 500	65.91	249.99	251.48		251.50	0.001704	1.08	122.81	94.60	0.28
unico	1165.86*	MCO	3.89	249.85	250.03	249.95	250.06	0.027617	1.05	6.12	31.39	0.80
unico	1165.86*	AVE 10	14.70	249.85	250.30	250.15	250.36	0.023148	1.76	14.91	34.30	0.85
unico	1165.86*	AVE 50	31.01	249.85	250.58	250.34	250.69	0.019983	2.29	24.89	35.62	0.86
unico	1165.86*	AVE 100	40.51	249.85	250.75	250.44	250.87	0.017270	2.44	30.86	36.43	0.82
unico	1165.86*	AVE 500	65.91	249.85	251.36	250.66	251.47	0.008303	2.40	57.75	54.22	0.62
unico	1161.33*	MCO	3.89	249.70	249.91	249.83	249.94	0.026809	1.11	5.96	28.81	0.80
unico	1161.33*	AVE 10	14.70	249.70	250.17	250.03	250.25	0.025057	1.90	14.02	32.21	0.89
unico	1161.33*	AVE 50	31.01	249.70	250.48	250.25	250.60	0.020154	2.38	24.18	34.30	0.87
unico	1161.33*	AVE 100	40.51	249.70	250.66	250.35	250.79	0.016537	2.49	30.62	35.52	0.81
unico	1161.33*	AVE 500	65.91	249.70	251.33	250.59	251.44	0.007019	2.31	59.96	52.51	0.58
unico	1156.810	MCO	3.89	249.56	249.79	249.71	249.81	0.025951	1.14	5.91	27.78	0.79
unico	1156.810	AVE 10	14.70	249.56	250.06	249.91	250.14	0.024585	1.93	13.70	29.74	0.89
unico	1156.810	AVE 50	31.01	249.56	250.38	250.13	250.51	0.019293	2.41	23.86	32.53	0.86
unico	1156.810	AVE 100	40.51	249.56	250.59	250.24	250.72	0.015325	2.50	30.72	34.64	0.79
unico	1156.810	AVE 500	65.91	249.56	251.31	250.49	251.41	0.005944	2.23	62.30	50.57	0.54
unico	1153.20*	MCO	3.89	249.37	249.59	249.59	249.67	0.063438	1.79	3.99	23.22	1.24
unico	1153.20*	AVE 10	14.70	249.37	249.93	249.82	250.04	0.026510	2.19	12.37	26.18	0.94
unico	1153.20*	AVE 50	31.01	249.37	250.26	250.07	250.43	0.022232	2.74	21.47	29.44	0.93
unico	1153.20*	AVE 100	40.51	249.37	250.49	250.19	250.66	0.016430	2.75	28.61	32.28	0.83
unico	1153.20*	AVE 500	65.91	249.37	251.27	250.47	251.38	0.006040	2.38	57.02	39.32	0.55
unico	1149.59*	MCO	3.89	249.19	249.54	249.44	249.56	0.009994	0.99	7.79	29.89	0.54
unico	1149.59*	AVE 10	14.70	249.19	249.93	249.64	249.98	0.007484	1.42	20.36	34.14	0.53
unico	1149.59*	AVE 50	31.01	249.19	250.28	249.85	250.36	0.007889	1.88	32.99	38.34	0.58
unico	1149.59*	AVE 100	40.51	249.19	250.52	249.96	250.60	0.006377	1.93	42.33	40.02	0.53
unico	1149.59*	AVE 500	65.91	249.19	251.29	250.20	251.35	0.003037	1.81	75.17	44.28	0.40
unico	1145.991	MCO	3.89	249.00	249.54	249.28	249.54	0.002196	0.61	12.82	32.91	0.27
unico	1145.991	AVE 10	14.70	249.00	249.93	249.49	249.95	0.003471	1.12	26.69	37.79	0.37
unico	1145.991	AVE 50	31.01	249.00	250.28	249.70	250.33	0.004410	1.56	40.42	40.17	0.44
unico	1145.991	AVE 100	40.51	249.00	250.52	249.80	250.57	0.003899	1.65	50.21	41.45	0.43
unico	1145.991	AVE 500	65.91	249.00	251.29	250.04	251.34	0.002195	1.62	83.70	44.59	0.34
unico	1141.78*	MCO	3.89	249.00	249.53	249.29	249.53	0.002452	0.64	12.37	32.54	0.28
unico	1141.78*	AVE 10	14.70	249.00	249.91	249.49	249.94	0.003812	1.15	25.73	36.76	0.39
unico	1141.78*	AVE 50	31.01	249.00	250.26	249.70	250.31	0.004872	1.62	38.87	39.33	0.46
unico	1141.78*	AVE 100	40.51	249.00	250.50	249.80	250.55	0.004229	1.69	48.58	40.65	0.44
unico	1141.78*	AVE 500	65.91	249.00	251.28	250.04	251.33	0.002305	1.66	81.76	43.71	0.35
unico	1137.58*	MCO	3.89	249.00	249.51	249.29	249.52	0.002752	0.66	11.90	32.14	0.30
unico	1137.58*	AVE 10	14.70	249.00	249.89	249.49	249.92	0.004204	1.19	24.76	35.81	0.40
unico	1137.58*	AVE 50	31.01	249.00	250.23	249.70	250.29	0.005402	1.67	37.31	38.43	0.48
unico	1137.58*	AVE 100	40.51	249.00	250.48	249.80	250.54	0.004593	1.74	46.93	39.79	0.46
unico	1137.58*	AVE 500	65.91	249.00	251.27	250.04	251.32	0.002417	1.69	79.89	42.84	0.36
unico	1133.383	MCO	3.89	249.01	249.50		249.51	0.003202	0.69	13.45	50.40	0.32
unico	1133.383	AVE 10	14.70	249.01	249.89		249.90	0.003161	1.02	39.74	92.98	0.35
unico	1133.383	AVE 50	31.01	249.01	250.24		250.26	0.002107	1.05	73.54	95.47	0.30
unico	1133.383	AVE 100	40.51	249.01	250.50		250.51	0.001456	0.99	97.91	96.95	0.26
unico	1133.383	AVE 500	65.91	249.01	251.29		251.30	0.000589	0.84	176.41	99.92	0.18
unico	1129.75*	MCO	3.89	249.01	249.49		249.50	0.003956	0.75	12.40	48.49	0.35
unico	1129.75*	AVE 10	14.70	249.01	249.87		249.89	0.003251	1.02	37.96	83.27	0.35
unico	1129.75*	AVE 50	31.01	249.01	250.23		250.25	0.002330	1.10	68.46	86.25	0.32
unico	1129.75*	AVE 100	40.51	249.01	250.49		250.51	0.001636	1.04	90.72	87.86	0.28
unico	1129.75*	AVE 500	65.91	249.01	251.29		251.30	0.000681	0.90	161.57	89.42	0.19
unico	1126.12*	MCO	3.89	249.01	249.47		249.48	0.004671	0.80	11.66	47.10	0.38
unico	1126.12*	AVE 10	14.70	249.01	249.86		249.88	0.003526	1.05	36.96	82.67	0.37
unico	1126.12*	AVE 50	31.01	249.01	250.23		250.24	0.002413	1.11	67.58	85.49	0.32
unico	1126.12*	AVE 100	40.51	249.01	250.48		250.50	0.001676	1.05	89.93	87.43	0.28
unico	1126.12*	AVE 500	65.91	249.01	251.29		251.30	0.000687	0.90	161.44	89.97	0.19
unico	1122.489	MCO	3.89	249.01	249.45		249.46	0.006295	0.89	10.38	44.73	0.44

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1122.489	AVE 10	14.70	249.01	249.85		249.86	0.004017	1.11	35.44	82.38	0.39
unico	1122.489	AVE 50	31.01	249.01	250.22		250.23	0.002547	1.13	66.36	84.83	0.33
unico	1122.489	AVE 100	40.51	249.01	250.48		250.49	0.001736	1.07	88.79	86.78	0.28
unico	1122.489	AVE 500	65.91	249.01	251.28		251.29	0.000702	0.91	160.80	90.83	0.19
unico	1118.54*	MCO	3.89	248.94	249.41		249.44	0.007064	0.99	9.34	41.11	0.47
unico	1118.54*	AVE 10	14.70	248.94	249.83		249.85	0.003769	1.12	33.72	70.11	0.38
unico	1118.54*	AVE 50	31.01	248.94	250.20		250.22	0.002783	1.22	60.25	72.67	0.35
unico	1118.54*	AVE 100	40.51	248.94	250.47		250.49	0.001978	1.17	79.76	74.74	0.30
unico	1118.54*	AVE 500	65.91	248.94	251.28		251.29	0.000850	1.02	142.55	79.01	0.21
unico	1114.59*	MCO	3.89	248.87	249.37		249.40	0.008579	1.10	8.24	37.40	0.52
unico	1114.59*	AVE 10	14.70	248.87	249.81		249.83	0.003963	1.17	32.70	68.90	0.39
unico	1114.59*	AVE 50	31.01	248.87	250.19		250.21	0.002854	1.26	59.23	71.87	0.35
unico	1114.59*	AVE 100	40.51	248.87	250.46		250.48	0.002003	1.20	78.84	74.11	0.31
unico	1114.59*	AVE 500	65.91	248.87	251.27		251.29	0.000854	1.04	141.68	78.63	0.22
unico	1110.647	MCO	3.89	248.80	249.25	249.24	249.34	0.027205	1.68	4.86	27.03	0.89
unico	1110.647	AVE 10	14.70	248.80	249.79		249.82	0.004307	1.22	31.61	68.43	0.41
unico	1110.647	AVE 50	31.01	248.80	250.17		250.20	0.002952	1.28	58.19	70.76	0.36
unico	1110.647	AVE 100	40.51	248.80	250.45		250.47	0.002045	1.21	77.84	73.36	0.31
unico	1110.647	AVE 500	65.91	248.80	251.27		251.28	0.000864	1.05	140.71	78.42	0.22
unico	1105.93*	MCO	3.89	248.40	248.98	248.98	249.19	0.031007	2.12	2.12	5.49	0.98
unico	1105.93*	AVE 10	14.70	248.40	249.76		249.80	0.003281	1.32	29.58	55.95	0.38
unico	1105.93*	AVE 50	31.01	248.40	250.14		250.18	0.003023	1.51	51.30	57.86	0.38
unico	1105.93*	AVE 100	40.51	248.40	250.42		250.46	0.002259	1.45	67.82	60.40	0.33
unico	1105.93*	AVE 500	65.91	248.40	251.25		251.28	0.001062	1.27	120.55	64.94	0.24
unico	1101.223	MCO	3.89	248.00	248.99	248.59	249.06	0.004216	1.17	3.78	5.41	0.39
unico	1101.223	AVE 10	14.70	248.00	249.74		249.78	0.002377	1.31	30.37	57.27	0.33
unico	1101.223	AVE 50	31.01	248.00	250.12		250.17	0.002533	1.56	52.51	58.89	0.35
unico	1101.223	AVE 100	40.51	248.00	250.41		250.45	0.001946	1.49	69.72	61.37	0.31
unico	1101.223	AVE 500	65.91	248.00	251.25		251.27	0.000959	1.29	124.17	66.84	0.23
unico	1096.82*	MCO	3.89	248.00	248.97	248.60	249.04	0.004825	1.22	3.55	5.11	0.42
unico	1096.82*	AVE 10	14.70	248.00	249.72	249.43	249.77	0.002641	1.37	27.21	47.06	0.34
unico	1096.82*	AVE 50	31.01	248.00	250.09	249.72	250.16	0.003182	1.73	44.82	48.28	0.39
unico	1096.82*	AVE 100	40.51	248.00	250.38	249.83	250.44	0.002503	1.68	59.20	50.99	0.36
unico	1096.82*	AVE 500	65.91	248.00	251.23	250.05	251.27	0.001271	1.48	105.50	56.69	0.27
unico	1092.41*	MCO	3.89	248.00	248.93	248.60	249.02	0.005720	1.28	3.34	4.83	0.45
unico	1092.41*	AVE 10	14.70	248.00	249.70	249.44	249.76	0.002966	1.43	25.92	46.26	0.36
unico	1092.41*	AVE 50	31.01	248.00	250.07	249.72	250.14	0.003506	1.79	43.21	47.97	0.41
unico	1092.41*	AVE 100	40.51	248.00	250.36	249.83	250.42	0.002664	1.71	57.77	50.54	0.36
unico	1092.41*	AVE 500	65.91	248.00	251.22	250.05	251.26	0.001310	1.49	104.32	56.52	0.27
unico	1088.014	MCO	3.89	248.00	248.90	248.60	248.99	0.006897	1.34	3.15	4.64	0.48
unico	1088.014	AVE 10	14.70	248.00	249.68	249.44	249.75	0.003268	1.46	25.09	46.22	0.37
unico	1088.014	AVE 50	31.01	248.00	250.05	249.72	250.13	0.003777	1.81	42.06	46.56	0.41
unico	1088.014	AVE 100	40.51	248.00	250.35	249.83	250.41	0.002808	1.72	56.67	50.02	0.37
unico	1088.014	AVE 500	65.91	248.00	251.22	250.04	251.26	0.001348	1.48	103.42	56.59	0.27
unico	1084.24*	MCO	3.89	248.00	248.87	248.59	248.96	0.007034	1.34	3.22	4.87	0.49
unico	1084.24*	AVE 10	14.70	248.00	249.67	249.47	249.74	0.003363	1.49	24.47	45.18	0.38
unico	1084.24*	AVE 50	31.01	248.00	250.03	249.72	250.11	0.003966	1.86	40.83	45.43	0.43
unico	1084.24*	AVE 100	40.51	248.00	250.34	249.82	250.40	0.002916	1.76	54.87	46.36	0.37
unico	1084.24*	AVE 500	65.91	248.00	251.21	250.04	251.25	0.001438	1.53	98.74	54.62	0.28
unico	1080.48*	MCO	3.89	248.00	248.85	248.57	248.93	0.006899	1.32	3.32	4.97	0.48
unico	1080.48*	AVE 10	14.70	248.00	249.65	249.46	249.72	0.003399	1.50	23.99	44.16	0.38
unico	1080.48*	AVE 50	31.01	248.00	250.01	249.71	250.10	0.004137	1.90	39.70	44.38	0.44
unico	1080.48*	AVE 100	40.51	248.00	250.32	249.82	250.39	0.002997	1.79	53.64	44.70	0.38
unico	1080.48*	AVE 500	65.91	248.00	251.20	250.04	251.24	0.001505	1.58	94.76	50.81	0.29
unico	1076.715	MCO	3.89	248.00	248.82	248.54	248.91	0.007028	1.32	3.39	5.00	0.49
unico	1076.715	AVE 10	14.70	248.00	249.65	249.47	249.71	0.003152	1.45	26.54	53.61	0.37
unico	1076.715	AVE 50	31.01	248.00	250.01	249.70	250.08	0.003405	1.73	46.01	53.78	0.40
unico	1076.715	AVE 100	40.51	248.00	250.32	249.79	250.38	0.002346	1.59	63.08	54.06	0.34
unico	1076.715	AVE 500	65.91	248.00	251.20	250.00	251.24	0.001124	1.37	111.35	57.49	0.25
unico	1072.61*	MCO	3.89	248.00	248.78	248.53	248.87	0.008265	1.41	3.22	5.03	0.53
unico	1072.61*	AVE 10	14.70	248.00	249.62	249.47	249.69	0.003619	1.56	24.83	53.10	0.40
unico	1072.61*	AVE 50	31.01	248.00	249.99	249.70	250.06	0.003726	1.83	44.37	53.43	0.42
unico	1072.61*	AVE 100	40.51	248.00	250.31	249.80	250.37	0.002465	1.65	61.84	53.77	0.35
unico	1072.61*	AVE 500	65.91	248.00	251.20	250.00	251.23	0.001149	1.41	110.24	55.91	0.25
unico	1068.52*	MCO	3.89	248.00	248.72	248.53	248.83	0.010783	1.55	2.99	5.04	0.61
unico	1068.52*	AVE 10	14.70	248.00	249.58	249.48	249.67	0.004542	1.75	22.31	52.74	0.45
unico	1068.52*	AVE 50	31.01	248.00	249.96	249.71	250.04	0.004183	1.95	42.48	53.15	0.45
unico	1068.52*	AVE 100	40.51	248.00	250.30	249.81	250.35	0.002608	1.72	60.62	53.65	0.37
unico	1068.52*	AVE 500	65.91	248.00	251.19	250.01	251.23	0.001179	1.45	109.11	55.08	0.26

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1064.422	MCO	3.89	248.01	248.52	248.52	248.75	0.034005	2.22	2.11	4.87	1.04
unico	1064.422	AVE 10	14.70	248.01	249.40	249.40	249.63	0.010202	2.46	13.54	39.17	0.68
unico	1064.422	AVE 50	31.01	248.01	249.93	249.72	250.03	0.004503	2.04	41.85	54.75	0.48
unico	1064.422	AVE 100	40.51	248.01	250.29	249.81	250.34	0.002610	1.74	61.36	55.11	0.37
unico	1064.422	AVE 500	65.91	248.01	251.19	250.02	251.22	0.001144	1.45	111.43	56.21	0.26
unico	1060.88*	MCO	3.89	247.67	248.13	248.25	248.55	0.082453	2.94	1.47	4.51	1.54
unico	1060.88*	AVE 10	14.70	247.67	248.71	248.89	249.51	0.046385	4.13	4.35	5.36	1.35
unico	1060.88*	AVE 50	31.01	247.67	249.90	249.69	250.01	0.004019	2.08	40.76	53.04	0.45
unico	1060.88*	AVE 100	40.51	247.67	250.27	249.80	250.33	0.002396	1.78	60.48	53.41	0.36
unico	1060.88*	AVE 500	65.91	247.67	251.18	250.02	251.22	0.001111	1.49	109.55	54.36	0.26
unico	1057.34*	MCO	3.89	247.34	247.85	247.97	248.27	0.078042	2.89	1.41	4.14	1.48
unico	1057.34*	AVE 10	14.70	247.34	248.37	248.63	249.31	0.058070	4.41	3.88	5.13	1.48
unico	1057.34*	AVE 50	31.01	247.34	249.87	249.64	249.99	0.003462	2.06	40.18	51.38	0.42
unico	1057.34*	AVE 100	40.51	247.34	250.25	249.77	250.33	0.002184	1.80	59.69	51.72	0.34
unico	1057.34*	AVE 500	65.91	247.34	251.17	250.01	251.21	0.001080	1.53	107.63	52.60	0.25
unico	1053.808	MCO	3.89	247.00	248.03	247.67	248.11	0.005182	1.25	3.45	4.87	0.43
unico	1053.808	AVE 10	14.70	247.00	248.80	248.36	249.07	0.008010	2.38	7.61	5.94	0.60
unico	1053.808	AVE 50	31.01	247.00	249.86	249.51	249.98	0.002774	1.96	43.67	60.54	0.38
unico	1053.808	AVE 100	40.51	247.00	250.25	249.76	250.32	0.001722	1.69	67.02	60.81	0.31
unico	1053.808	AVE 500	65.91	247.00	251.17	250.01	251.21	0.000832	1.40	123.55	61.66	0.22
unico	1049.71*	MCO	3.89	247.00	248.01		248.09	0.005365	1.27	3.46	4.98	0.44
unico	1049.71*	AVE 10	14.70	247.00	248.76		249.04	0.008336	2.42	7.66	6.34	0.61
unico	1049.71*	AVE 50	31.01	247.00	249.78		249.96	0.003791	2.27	37.81	66.90	0.45
unico	1049.71*	AVE 100	40.51	247.00	250.24		250.31	0.001705	1.70	74.27	82.11	0.31
unico	1049.71*	AVE 500	65.91	247.00	251.17		251.20	0.000664	1.26	154.91	93.17	0.20
unico	1045.62*	MCO	3.89	247.00	247.98		248.06	0.005712	1.30	3.49	5.17	0.46
unico	1045.62*	AVE 10	14.70	247.00	248.73		249.00	0.008518	2.44	7.84	6.61	0.62
unico	1045.62*	AVE 50	31.01	247.00	249.72	248.92	249.94	0.004476	2.46	32.56	54.41	0.49
unico	1045.62*	AVE 100	40.51	247.00	250.22		250.30	0.001935	1.82	69.87	81.05	0.33
unico	1045.62*	AVE 500	65.91	247.00	251.17		251.20	0.000674	1.29	148.22	83.90	0.21
unico	1041.538	MCO	3.89	247.00	247.96		248.04	0.006007	1.32	3.60	5.45	0.47
unico	1041.538	AVE 10	14.70	247.00	248.70		248.96	0.008576	2.44	8.07	6.65	0.63
unico	1041.538	AVE 50	31.01	247.00	249.71		249.92	0.004306	2.43	31.50	43.30	0.49
unico	1041.538	AVE 100	40.51	247.00	250.19		250.29	0.002239	1.96	65.20	80.27	0.36
unico	1041.538	AVE 500	65.91	247.00	251.16		251.19	0.000711	1.33	144.23	81.96	0.21
unico	1036.57*	MCO	3.89	247.00	247.92		248.01	0.006940	1.35	3.43	5.50	0.50
unico	1036.57*	AVE 10	14.70	247.00	248.65		248.92	0.009063	2.44	7.94	6.90	0.64
unico	1036.57*	AVE 50	31.01	247.00	249.63		249.89	0.005212	2.60	26.31	35.61	0.53
unico	1036.57*	AVE 100	40.51	247.00	250.11		250.27	0.003177	2.28	46.26	49.59	0.43
unico	1036.57*	AVE 500	65.91	247.00	251.13		251.19	0.001163	1.69	113.03	72.54	0.27
unico	1031.604	MCO	3.89	247.00	247.87		247.97	0.008524	1.41	3.21	5.55	0.55
unico	1031.604	AVE 10	14.70	247.00	248.60		248.87	0.009527	2.43	7.95	7.48	0.65
unico	1031.604	AVE 50	31.01	247.00	249.58		249.86	0.005677	2.66	23.42	29.45	0.55
unico	1031.604	AVE 100	40.51	247.00	250.06		250.25	0.003533	2.37	40.78	41.26	0.45
unico	1031.604	AVE 500	65.91	247.00	251.08		251.18	0.001641	1.98	93.28	64.74	0.32
unico	1027.71*	MCO	3.89	247.00	247.82		247.93	0.010597	1.53	3.02	5.53	0.61
unico	1027.71*	AVE 10	14.70	247.00	248.53		248.83	0.011450	2.60	7.56	7.46	0.71
unico	1027.71*	AVE 50	31.01	247.00	249.47	248.93	249.83	0.007330	2.96	19.76	23.85	0.62
unico	1027.71*	AVE 100	40.51	247.00	249.99		250.23	0.004379	2.62	35.99	37.63	0.50
unico	1027.71*	AVE 500	65.91	247.00	251.07		251.17	0.001720	2.04	84.56	50.97	0.33
unico	1023.835	MCO	3.89	247.00	247.63	247.63	247.85	0.031329	2.16	2.13	5.26	1.00
unico	1023.835	AVE 10	14.70	247.00	248.34	248.26	248.76	0.018930	3.07	6.43	7.23	0.90
unico	1023.835	AVE 50	31.01	247.00	249.34	248.93	249.79	0.009591	3.29	16.54	17.79	0.71
unico	1023.835	AVE 100	40.51	247.00	249.88		250.20	0.005869	2.98	30.20	32.60	0.58
unico	1023.835	AVE 500	65.91	247.00	251.04		251.16	0.001936	2.17	77.43	44.90	0.35
unico	1019.92*	MCO	3.89	246.67	247.23	247.35	247.65	0.081514	2.89	1.43	4.31	1.52
unico	1019.92*	AVE 10	14.70	246.67	248.42		248.66	0.007778	2.33	8.41	7.47	0.60
unico	1019.92*	AVE 50	31.01	246.67	249.38		249.73	0.006134	2.85	18.73	18.60	0.57
unico	1019.92*	AVE 100	40.51	246.67	249.89		250.17	0.004349	2.72	31.46	29.86	0.50
unico	1019.92*	AVE 500	65.91	246.67	251.00		251.15	0.002091	2.32	71.65	44.80	0.36
unico	1016.01*	MCO	3.89	246.33	247.45	247.04	247.51	0.004115	1.15	3.82	5.26	0.39
unico	1016.01*	AVE 10	14.70	246.33	248.45		248.62	0.004188	1.92	10.14	7.82	0.44
unico	1016.01*	AVE 50	31.01	246.33	249.42		249.68	0.004051	2.49	21.53	20.10	0.47
unico	1016.01*	AVE 100	40.51	246.33	249.91		250.14	0.003206	2.46	34.45	31.05	0.43
unico	1016.01*	AVE 500	65.91	246.33	251.01		251.14	0.001688	2.15	73.85	40.10	0.33
unico	1012.106	MCO	3.89	246.00	247.46	246.74	247.49	0.001514	0.84	5.29	5.45	0.25
unico	1012.106	AVE 10	14.70	246.00	248.47	247.41	248.59	0.002506	1.62	12.25	9.56	0.35
unico	1012.106	AVE 50	31.01	246.00	249.46	248.13	249.65	0.002574	2.11	26.77	23.63	0.38
unico	1012.106	AVE 100	40.51	246.00	249.95	248.54	250.11	0.002140	2.11	40.77	32.80	0.35
unico	1012.106	AVE 500	65.91	246.00	251.02	249.48	251.12	0.001309	1.96	79.19	37.89	0.29

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1004.031		Bridge									
unico	956.5664	MCO	3.89	246.00	247.34	246.82	247.39	0.002559	0.93	4.70	6.12	0.30
unico	956.5664	AVE 10	14.70	246.00	248.31	247.45	248.43	0.003140	1.63	12.06	10.68	0.37
unico	956.5664	AVE 50	31.01	246.00	249.35	248.00	249.49	0.002442	1.92	29.16	23.77	0.36
unico	956.5664	AVE 100	40.51	246.00	249.86	248.47	249.98	0.001911	1.88	42.81	29.05	0.32
unico	956.5664	AVE 500	65.91	246.00	250.97	249.13	251.05	0.001095	1.72	86.64	39.51	0.26
unico	952.991*	MCO	3.89	246.00	247.34	246.72	247.38	0.001886	0.85	5.14	6.29	0.26
unico	952.991*	AVE 10	14.70	246.00	248.31	247.37	248.42	0.002700	1.57	13.11	12.14	0.35
unico	952.991*	AVE 50	31.01	246.00	249.36	248.01	249.47	0.001892	1.73	37.48	35.39	0.31
unico	952.991*	AVE 100	40.51	246.00	249.88	248.40	249.96	0.001321	1.61	57.01	39.71	0.27
unico	952.991*	AVE 500	65.91	246.00	250.98	249.34	251.04	0.000862	1.55	111.52	62.35	0.23
unico	949.4165	MCO	3.89	246.00	247.34	246.60	247.37	0.001425	0.79	5.58	6.41	0.23
unico	949.4165	AVE 10	14.70	246.00	248.30	247.27	248.41	0.002354	1.51	15.25	19.83	0.33
unico	949.4165	AVE 50	31.01	246.00	249.40	247.97	249.45	0.001006	1.30	56.61	44.59	0.23
unico	949.4165	AVE 100	40.51	246.00	249.91	248.62	249.95	0.000760	1.25	81.69	53.65	0.20
unico	949.4165	AVE 500	65.91	246.00	251.00	248.98	251.03	0.000473	1.16	150.97	73.21	0.17
unico	945.805*	MCO	3.89	246.00	247.33	246.58	247.36	0.001374	0.81	5.67	6.67	0.23
unico	945.805*	AVE 10	14.70	246.00	248.30	247.28	248.40	0.002176	1.50	17.29	24.10	0.32
unico	945.805*	AVE 50	31.01	246.00	249.40	248.02	249.45	0.000911	1.28	63.24	52.98	0.22
unico	945.805*	AVE 100	40.51	246.00	249.91	248.55	249.94	0.000639	1.18	92.63	61.33	0.19
unico	945.805*	AVE 500	65.91	246.00	251.00	248.90	251.02	0.000368	1.05	164.33	70.36	0.15
unico	942.194*	MCO	3.89	246.00	247.33		247.36	0.001332	0.83	5.83	6.95	0.24
unico	942.194*	AVE 10	14.70	246.00	248.30		248.38	0.001916	1.46	21.37	34.49	0.31
unico	942.194*	AVE 50	31.01	246.00	249.41		249.44	0.000683	1.14	75.78	59.75	0.20
unico	942.194*	AVE 100	40.51	246.00	249.92		249.94	0.000466	1.03	106.96	62.77	0.17
unico	942.194*	AVE 500	65.91	246.00	251.01		251.02	0.000291	0.96	178.24	68.53	0.14
unico	938.5838	MCO	3.89	246.00	247.32		247.35	0.001316	0.86	6.02	7.59	0.24
unico	938.5838	AVE 10	14.70	246.00	248.31		248.37	0.001629	1.40	27.26	50.58	0.30
unico	938.5838	AVE 50	31.01	246.00	249.41		249.43	0.000449	0.96	91.17	60.43	0.17
unico	938.5838	AVE 100	40.51	246.00	249.92		249.94	0.000330	0.90	122.14	61.80	0.15
unico	938.5838	AVE 500	65.91	246.00	251.01		251.02	0.000233	0.89	192.25	67.23	0.13
unico	933.744*	MCO	3.89	246.01	247.31		247.35	0.001626	0.94	5.90	9.03	0.27
unico	933.744*	AVE 10	14.70	246.01	248.31		248.36	0.001476	1.32	30.90	49.83	0.28
unico	933.744*	AVE 50	31.01	246.01	249.41		249.43	0.000421	0.92	97.02	64.57	0.16
unico	933.744*	AVE 100	40.51	246.01	249.92		249.93	0.000306	0.86	130.19	66.32	0.14
unico	933.744*	AVE 500	65.91	246.01	251.01		251.02	0.000212	0.85	205.29	72.15	0.12
unico	928.905*	MCO	3.89	246.02	247.29		247.34	0.002008	1.02	5.92	10.78	0.30
unico	928.905*	AVE 10	14.70	246.02	248.31		248.35	0.001258	1.21	35.59	51.00	0.26
unico	928.905*	AVE 50	31.01	246.02	249.41		249.43	0.000386	0.88	103.29	67.54	0.15
unico	928.905*	AVE 100	40.51	246.02	249.92		249.93	0.000282	0.82	138.30	70.31	0.13
unico	928.905*	AVE 500	65.91	246.02	251.01		251.02	0.000194	0.81	218.04	76.78	0.12
unico	924.0662	MCO	3.89	246.03	247.28		247.33	0.002451	1.09	6.27	14.53	0.32
unico	924.0662	AVE 10	14.70	246.03	248.32		248.34	0.001058	1.10	40.77	53.81	0.24
unico	924.0662	AVE 50	31.01	246.03	249.41		249.42	0.000347	0.82	110.39	70.48	0.14
unico	924.0662	AVE 100	40.51	246.03	249.92		249.93	0.000255	0.78	146.85	73.35	0.13
unico	924.0662	AVE 500	65.91	246.03	251.01		251.01	0.000179	0.77	230.65	81.05	0.11
unico	911.3496	MCO	3.89	246.11	247.24	246.94	247.28	0.004833	1.17	7.88	27.12	0.42
unico	911.3496	AVE 10	14.70	246.11	248.31	247.42	248.33	0.000877	0.88	37.23	27.74	0.20
unico	911.3496	AVE 50	31.01	246.11	249.40	247.67	249.42	0.000604	0.99	67.84	28.46	0.18
unico	911.3496	AVE 100	40.51	246.11	249.90	247.79	249.92	0.000567	1.06	82.24	28.76	0.18
unico	911.3496	AVE 500	65.91	246.11	250.98	248.06	251.01	0.000557	1.26	114.53	31.36	0.19
unico	907.959*	MCO	3.89	246.09	247.13	246.89	247.25	0.010550	1.70	4.14	27.12	0.62
unico	907.959*	AVE 10	14.70	246.09	248.31	247.46	248.32	0.000902	0.92	36.49	27.94	0.21
unico	907.959*	AVE 50	31.01	246.09	249.40	247.73	249.42	0.000608	1.02	67.39	28.70	0.19
unico	907.959*	AVE 100	40.51	246.09	249.90	247.84	249.92	0.000569	1.09	81.94	29.21	0.18
unico	907.959*	AVE 500	65.91	246.09	250.98	248.12	251.01	0.000553	1.28	114.60	31.63	0.19
unico	904.568*	MCO	3.89	246.07	247.10	246.82	247.22	0.008985	1.66	3.83	14.10	0.58
unico	904.568*	AVE 10	14.70	246.07	248.30	247.50	248.32	0.000923	0.97	35.86	28.17	0.22
unico	904.568*	AVE 50	31.01	246.07	249.39	247.77	249.41	0.000611	1.05	67.08	28.97	0.19
unico	904.568*	AVE 100	40.51	246.07	249.90	247.90	249.92	0.000569	1.12	81.81	29.52	0.19
unico	904.568*	AVE 500	65.91	246.07	250.98	248.18	251.01	0.000550	1.30	114.75	31.82	0.19
unico	901.1777	MCO	3.89	246.04	247.07	246.74	247.19	0.007531	1.60	3.81	12.94	0.54
unico	901.1777	AVE 10	14.70	246.04	248.30	247.53	248.32	0.000924	1.00	35.78	29.04	0.22
unico	901.1777	AVE 50	31.01	246.04	249.39	247.82	249.41	0.000594	1.06	68.05	29.90	0.19
unico	901.1777	AVE 100	40.51	246.04	249.90	247.95	249.92	0.000550	1.12	83.24	30.35	0.19
unico	901.1777	AVE 500	65.91	246.04	250.97	248.23	251.00	0.000528	1.30	117.10	32.53	0.19
unico	896.672*	MCO	3.89	246.03	247.04	246.70	247.15	0.006969	1.57	3.43	5.07	0.52
unico	896.672*	AVE 10	14.70	246.03	248.27	247.55	248.31	0.001551	1.31	28.78	29.27	0.28

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	896.672*	AVE 50	31.01	246.03	249.38	248.07	249.41	0.000769	1.22	61.92	30.33	0.22
unico	896.672*	AVE 100	40.51	246.03	249.89	248.21	249.91	0.000676	1.25	77.44	31.04	0.21
unico	896.672*	AVE 500	65.91	246.03	250.97	248.51	251.00	0.000605	1.40	112.09	33.40	0.20
unico	892.1675	MCO	3.89	246.02	247.01	246.66	247.12	0.006678	1.57	3.34	4.21	0.52
unico	892.1675	AVE 10	14.70	246.02	248.17	247.61	248.29	0.003429	1.92	19.83	32.06	0.42
unico	892.1675	AVE 50	31.01	246.02	249.37	248.32	249.40	0.000817	1.27	68.89	45.39	0.22
unico	892.1675	AVE 100	40.51	246.02	249.89	248.50	249.91	0.000594	1.19	92.29	46.00	0.19
unico	892.1675	AVE 500	65.91	246.02	250.97	248.79	250.99	0.000423	1.19	143.46	48.26	0.17
unico	887.800*	MCO	3.89	246.02	246.96	246.67	247.09	0.008293	1.68	3.15	4.29	0.57
unico	887.800*	AVE 10	14.70	246.02	247.95	247.53	248.25	0.008170	2.75	9.41	9.91	0.64
unico	887.800*	AVE 50	31.01	246.02	249.27	248.43	249.39	0.002414	2.13	37.84	27.86	0.38
unico	887.800*	AVE 100	40.51	246.02	249.81	248.89	249.90	0.001681	1.97	53.08	28.54	0.33
unico	887.800*	AVE 500	65.91	246.02	250.91	249.26	250.99	0.001184	1.97	85.61	30.94	0.29
unico	883.434*	MCO	3.89	246.02	246.90	246.67	247.04	0.010932	1.84	2.91	4.21	0.65
unico	883.434*	AVE 10	14.70	246.02	247.86	247.51	248.21	0.009956	2.94	8.09	6.50	0.70
unico	883.434*	AVE 50	31.01	246.02	248.86	248.33	249.34	0.008353	3.61	17.15	12.60	0.69
unico	883.434*	AVE 100	40.51	246.02	249.58	248.94	249.87	0.004431	3.07	34.65	27.76	0.52
unico	883.434*	AVE 500	65.91	246.02	250.84	249.72	250.97	0.001937	2.49	70.61	30.07	0.36
unico	879.0676	MCO	3.89	246.02	246.74	246.67	246.97	0.023671	2.32	2.28	3.98	0.91
unico	879.0676	AVE 10	14.70	246.02	247.50	247.50	248.12	0.023397	3.87	5.83	5.37	1.03
unico	879.0676	AVE 50	31.01	246.02	248.31	248.31	249.24	0.020613	4.90	10.74	6.77	1.05
unico	879.0676	AVE 100	40.51	246.02	248.73	248.73	249.76	0.018741	5.24	13.77	7.70	1.03
unico	879.0676	AVE 500	65.91	246.02	249.65	249.65	250.85	0.015797	5.86	22.21	9.77	0.99
unico	874.139*	MCO	3.89	245.87	246.60	246.56	246.84	0.026038	2.38	2.20	4.01	0.95
unico	874.139*	AVE 10	14.70	245.87	247.30	247.37	247.98	0.027887	4.06	5.47	5.35	1.12
unico	874.139*	AVE 50	31.01	245.87	248.03	248.17	249.11	0.026192	5.24	9.79	6.52	1.16
unico	874.139*	AVE 100	40.51	245.87	248.39	248.58	249.64	0.024877	5.69	12.29	7.28	1.16
unico	874.139*	AVE 500	65.91	245.87	249.28	249.51	250.73	0.020499	6.36	20.07	9.83	1.11
unico	869.210*	MCO	3.89	245.71	246.48	246.44	246.72	0.024805	2.33	2.21	4.06	0.93
unico	869.210*	AVE 10	14.70	245.71	247.15	247.24	247.84	0.029007	4.07	5.37	5.43	1.13
unico	869.210*	AVE 50	31.01	245.71	247.84	248.04	248.97	0.028408	5.33	9.46	6.48	1.20
unico	869.210*	AVE 100	40.51	245.71	248.17	248.41	249.50	0.027827	5.84	11.70	7.07	1.22
unico	869.210*	AVE 500	65.91	245.71	249.05	249.35	250.61	0.022759	6.53	19.19	9.99	1.16
unico	864.282*	MCO	3.89	245.56	246.35	246.31	246.59	0.025350	2.34	2.17	4.10	0.93
unico	864.282*	AVE 10	14.70	245.56	247.04	247.11	247.70	0.027151	3.95	5.52	5.63	1.09
unico	864.282*	AVE 50	31.01	245.56	247.66	247.89	248.82	0.030567	5.40	9.21	6.35	1.24
unico	864.282*	AVE 100	40.51	245.56	247.99	248.26	249.35	0.029695	5.90	11.43	7.01	1.25
unico	864.282*	AVE 500	65.91	245.56	248.84	249.24	250.49	0.024577	6.65	18.65	10.20	1.20
unico	859.354*	MCO	3.89	245.41	246.22	246.19	246.47	0.025242	2.31	2.16	4.13	0.93
unico	859.354*	AVE 10	14.70	245.41	246.89	246.98	247.56	0.028747	3.98	5.40	5.72	1.11
unico	859.354*	AVE 50	31.01	245.41	247.49	247.68	248.66	0.032074	5.41	9.07	6.43	1.25
unico	859.354*	AVE 100	40.51	245.41	247.80	248.09	249.20	0.031449	5.94	11.20	7.01	1.27
unico	859.354*	AVE 500	65.91	245.41	248.65	249.10	250.36	0.026122	6.72	18.25	10.60	1.23
unico	854.425*	MCO	3.89	245.26	246.10	246.07	246.34	0.025038	2.29	2.15	4.17	0.92
unico	854.425*	AVE 10	14.70	245.26	246.79	246.87	247.42	0.026700	3.86	5.58	5.96	1.07
unico	854.425*	AVE 50	31.01	245.26	247.38	247.58	248.49	0.030292	5.26	9.34	6.65	1.21
unico	854.425*	AVE 100	40.51	245.26	247.62	247.96	249.04	0.033535	5.99	10.97	6.89	1.30
unico	854.425*	AVE 500	65.91	245.26	248.37	248.86	250.20	0.030244	6.95	17.02	9.60	1.30
unico	849.497*	MCO	3.89	245.11	245.98	245.95	246.22	0.025424	2.28	2.13	4.20	0.92
unico	849.497*	AVE 10	14.70	245.11	246.63	246.74	247.28	0.028235	3.89	5.47	6.07	1.09
unico	849.497*	AVE 50	31.01	245.11	247.21	247.43	248.34	0.031705	5.27	9.23	6.84	1.23
unico	849.497*	AVE 100	40.51	245.11	247.46	247.79	248.87	0.034271	5.96	10.97	7.16	1.31
unico	849.497*	AVE 500	65.91	245.11	248.16	248.87	250.05	0.032429	7.02	16.69	9.78	1.34
unico	844.569*	MCO	3.89	244.96	245.85	245.82	246.09	0.025190	2.26	2.12	4.23	0.91
unico	844.569*	AVE 10	14.70	244.96	246.50	246.61	247.14	0.028649	3.87	5.48	6.28	1.09
unico	844.569*	AVE 50	31.01	244.96	247.06	247.29	248.17	0.032353	5.24	9.28	7.12	1.24
unico	844.569*	AVE 100	40.51	244.96	247.31	247.62	248.69	0.034577	5.90	11.09	7.50	1.31
unico	844.569*	AVE 500	65.91	244.96	247.92	248.75	249.87	0.035936	7.15	16.27	9.84	1.39
unico	839.640*	MCO	3.89	244.81	245.72	245.69	245.96	0.026706	2.28	2.06	4.21	0.93
unico	839.640*	AVE 10	14.70	244.81	246.36	246.47	247.00	0.029296	3.85	5.47	6.50	1.10
unico	839.640*	AVE 50	31.01	244.81	246.90	247.13	248.01	0.033369	5.23	9.29	7.49	1.25
unico	839.640*	AVE 100	40.51	244.81	247.15	247.49	248.51	0.035098	5.85	11.23	8.07	1.31
unico	839.640*	AVE 500	65.91	244.81	247.72	248.57	249.69	0.038102	7.18	16.47	11.17	1.42
unico	834.712*	MCO	3.89	244.65	245.59	245.56	245.83	0.026111	2.24	2.07	4.21	0.91
unico	834.712*	AVE 10	14.70	244.65	246.22	246.34	246.86	0.029765	3.83	5.49	6.78	1.10
unico	834.712*	AVE 50	31.01	244.65	246.75	247.02	247.84	0.033837	5.18	9.44	8.03	1.24
unico	834.712*	AVE 100	40.51	244.65	246.98	247.35	248.34	0.036760	5.86	11.38	9.01	1.32
unico	834.712*	AVE 500	65.91	244.65	247.46	248.30	249.48	0.042992	7.32	16.51	12.78	1.48
unico	829.784*	MCO	3.89	244.50	245.47	245.42	245.70	0.024992	2.19	2.10	4.23	0.89

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	829.784*	AVE 10	14.70	244.50	246.09	246.21	246.71	0.029621	3.78	5.58	7.20	1.09
unico	829.784*	AVE 50	31.01	244.50	246.59	246.87	247.67	0.034818	5.16	9.68	9.18	1.25
unico	829.784*	AVE 100	40.51	244.50	246.80	247.26	248.15	0.038423	5.85	11.74	10.70	1.34
unico	829.784*	AVE 500	65.91	244.50	248.47	248.01	248.84	0.006286	3.58	41.77	23.64	0.60
unico	824.855*	MCO	3.89	244.35	245.36	245.28	245.58	0.023255	2.12	2.16	4.24	0.86
unico	824.855*	AVE 10	14.70	244.35	245.96	246.08	246.56	0.029351	3.73	5.76	7.95	1.08
unico	824.855*	AVE 50	31.01	244.35	246.42	246.78	247.49	0.037030	5.19	10.09	11.38	1.28
unico	824.855*	AVE 100	40.51	244.35	246.59	247.08	247.95	0.042754	5.94	12.16	13.28	1.40
unico	824.855*	AVE 500	65.91	244.35	248.55	247.55	248.77	0.003915	2.91	51.52	26.54	0.48
unico	819.927*	MCO	3.89	244.20	245.29	245.15	245.47	0.017548	1.93	2.41	4.77	0.75
unico	819.927*	AVE 10	14.70	244.20	245.79	245.95	246.41	0.032048	3.77	5.87	9.41	1.11
unico	819.927*	AVE 50	31.01	244.20	246.17	246.57	247.29	0.044308	5.35	10.26	13.80	1.37
unico	819.927*	AVE 100	40.51	244.20	247.14	246.77	247.42	0.007868	3.11	27.17	19.55	0.63
unico	819.927*	AVE 500	65.91	244.20	248.59	247.21	248.73	0.002629	2.44	61.11	29.56	0.39
unico	814.9991	MCO	3.89	244.05	245.26	245.00	245.39	0.010841	1.64	3.05	6.71	0.60
unico	814.9991	AVE 10	14.70	244.05	245.95	245.79	246.17	0.010296	2.46	11.36	16.89	0.65
unico	814.9991	AVE 50	31.01	244.05	246.72	246.27	246.89	0.006087	2.51	25.55	19.88	0.54
unico	814.9991	AVE 100	40.51	244.05	247.21	246.45	247.35	0.004190	2.38	35.65	21.04	0.46
unico	814.9991	AVE 500	65.91	244.05	248.61	246.85	248.71	0.001878	2.10	75.23	54.29	0.33
unico	810.287*	MCO	3.89	244.02	245.22		245.33	0.009526	1.52	3.10	6.96	0.56
unico	810.287*	AVE 10	14.70	244.02	245.94		246.12	0.008295	2.22	12.46	19.42	0.58
unico	810.287*	AVE 50	31.01	244.02	246.73		246.86	0.004369	2.14	29.64	23.34	0.46
unico	810.287*	AVE 100	40.51	244.02	247.22		247.32	0.002975	2.02	41.56	24.96	0.39
unico	810.287*	AVE 500	65.91	244.02	248.62		248.69	0.001427	1.84	86.55	56.01	0.29
unico	805.5759	MCO	3.89	244.00	245.19	244.91	245.29	0.008656	1.42	3.12	7.11	0.53
unico	805.5759	AVE 10	14.70	244.00	245.92	245.65	246.08	0.007056	2.03	13.27	20.75	0.54
unico	805.5759	AVE 50	31.01	244.00	246.72	246.14	246.83	0.003631	1.95	31.97	24.71	0.41
unico	805.5759	AVE 100	40.51	244.00	247.22	246.30	247.31	0.002490	1.84	44.66	26.32	0.35
unico	805.5759	AVE 500	65.91	244.00	248.62	246.65	248.68	0.001140	1.64	85.55	32.34	0.26
unico	801.096*	MCO	3.89	244.00	245.17	244.78	245.25	0.005400	1.23	3.61	7.07	0.43
unico	801.096*	AVE 10	14.70	244.00	245.89	245.56	246.04	0.006002	1.96	13.32	19.98	0.50
unico	801.096*	AVE 50	31.01	244.00	246.70	246.09	246.81	0.003454	1.97	31.88	25.41	0.41
unico	801.096*	AVE 100	40.51	244.00	247.20	246.27	247.30	0.002368	1.85	45.44	28.20	0.35
unico	801.096*	AVE 500	65.91	244.00	248.62	246.66	248.68	0.001052	1.62	88.05	32.82	0.25
unico	796.6166	MCO	3.89	244.01	245.17	244.67	245.22	0.003501	1.07	4.19	7.24	0.35
unico	796.6166	AVE 10	14.70	244.01	245.88	245.45	246.02	0.005016	1.86	13.72	19.66	0.46
unico	796.6166	AVE 50	31.01	244.01	246.69	246.09	246.80	0.002981	1.88	33.85	26.49	0.38
unico	796.6166	AVE 100	40.51	244.01	247.20	246.26	247.28	0.002064	1.77	47.68	27.92	0.33
unico	796.6166	AVE 500	65.91	244.01	248.61	246.61	248.67	0.001000	1.60	90.77	34.14	0.24
unico	792.093*	MCO	3.89	244.03	245.15		245.21	0.004005	1.12	4.07	7.09	0.39
unico	792.093*	AVE 10	14.70	244.03	245.84		245.99	0.005425	1.93	13.20	19.21	0.49
unico	792.093*	AVE 50	31.01	244.03	246.67		246.78	0.003062	1.93	33.90	29.11	0.40
unico	792.093*	AVE 100	40.51	244.03	247.19		247.27	0.001994	1.78	50.12	33.31	0.33
unico	792.093*	AVE 500	65.91	244.03	248.61		248.67	0.000901	1.56	110.45	62.99	0.24
unico	787.5697	MCO	3.89	244.06	245.12		245.19	0.004859	1.18	3.96	7.02	0.42
unico	787.5697	AVE 10	14.70	244.06	245.80		245.96	0.006000	1.99	12.85	18.90	0.52
unico	787.5697	AVE 50	31.01	244.06	246.65		246.77	0.003169	1.96	33.29	28.40	0.41
unico	787.5697	AVE 100	40.51	244.06	247.18		247.26	0.002037	1.80	49.48	32.75	0.34
unico	787.5697	AVE 500	65.91	244.06	248.60		248.66	0.000934	1.60	109.41	64.40	0.25
unico	783.165*	MCO	3.89	244.03	245.12		245.17	0.002897	1.02	4.77	7.39	0.34
unico	783.165*	AVE 10	14.70	244.03	245.79		245.94	0.004736	1.88	14.08	20.19	0.47
unico	783.165*	AVE 50	31.01	244.03	246.65		246.75	0.002599	1.85	36.92	31.40	0.38
unico	783.165*	AVE 100	40.51	244.03	247.18		247.25	0.001687	1.70	54.51	35.47	0.31
unico	783.165*	AVE 500	65.91	244.03	248.61		248.66	0.000761	1.48	119.05	62.60	0.22
unico	778.7605	MCO	3.89	244.01	245.11	244.48	245.15	0.001933	0.92	5.53	7.81	0.28
unico	778.7605	AVE 10	14.70	244.01	245.79	244.99	245.91	0.003885	1.80	15.64	23.56	0.43
unico	778.7605	AVE 50	31.01	244.01	246.65	245.91	246.73	0.002045	1.71	42.26	34.84	0.34
unico	778.7605	AVE 100	40.51	244.01	247.18	246.13	247.24	0.001342	1.56	61.79	38.92	0.28
unico	778.7605	AVE 500	65.91	244.01	248.61	246.48	248.65	0.000636	1.38	128.45	61.88	0.21
unico	771.7564		Bridge									
unico	765.5794	MCO	3.89	244.12	245.00		245.04	0.006550	1.10	5.58	12.40	0.47
unico	765.5794	AVE 10	14.70	244.12	245.73		245.79	0.003853	1.47	23.28	38.07	0.41
unico	765.5794	AVE 50	31.01	244.12	246.66		246.68	0.001017	1.08	68.39	52.00	0.23
unico	765.5794	AVE 100	40.51	244.12	247.19		247.21	0.000630	0.98	96.72	55.04	0.19
unico	765.5794	AVE 500	65.91	244.12	248.62		248.63	0.000278	0.86	183.62	69.24	0.13
unico	762.525*	MCO	3.89	244.09	245.00		245.02	0.004116	0.92	7.14	16.27	0.38
unico	762.525*	AVE 10	14.70	244.09	245.73		245.77	0.002489	1.21	27.39	39.57	0.33
unico	762.525*	AVE 50	31.01	244.09	246.66		246.68	0.000840	1.00	72.51	52.74	0.21
unico	762.525*	AVE 100	40.51	244.09	247.19		247.21	0.000545	0.92	101.43	56.40	0.18

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	679.5561	MCO	3.89	244.00	244.68		244.73	0.004610	1.04	4.85	8.76	0.41
unico	679.5561	AVE 10	14.70	244.00	245.25		245.42	0.007454	2.00	10.74	12.13	0.57
unico	679.5561	AVE 50	31.01	244.00	245.82		246.10	0.008044	2.67	18.83	16.12	0.63
unico	679.5561	AVE 100	40.51	244.00	246.11		246.42	0.007793	2.89	23.66	17.97	0.64
unico	679.5561	AVE 500	65.91	244.00	246.75		247.13	0.007083	3.30	36.63	22.35	0.64
unico	674.699*	MCO	3.89	243.57	244.69		244.71	0.001073	0.66	7.51	10.01	0.21
unico	674.699*	AVE 10	14.70	243.57	245.28		245.37	0.002870	1.46	14.49	13.80	0.37
unico	674.699*	AVE 50	31.01	243.57	245.87		246.04	0.003857	2.09	23.82	17.94	0.45
unico	674.699*	AVE 100	40.51	243.57	246.15		246.36	0.004053	2.32	29.19	19.86	0.47
unico	674.699*	AVE 500	65.91	243.57	246.79		247.07	0.004281	2.78	43.79	26.04	0.50
unico	669.8423	MCO	3.89	243.14	244.69		244.70	0.000391	0.47	10.42	11.39	0.13
unico	669.8423	AVE 10	14.70	243.14	245.30		245.35	0.001394	1.14	18.42	15.36	0.26
unico	669.8423	AVE 50	31.01	243.14	245.89		246.01	0.002166	1.70	28.88	19.54	0.34
unico	669.8423	AVE 100	40.51	243.14	246.18		246.33	0.002441	1.94	34.80	22.34	0.37
unico	669.8423	AVE 500	65.91	243.14	246.83		247.03	0.002761	2.37	51.85	30.22	0.41
unico	665.271*	MCO	3.89	243.09	244.69		244.70	0.000439	0.52	9.68	10.15	0.14
unico	665.271*	AVE 10	14.70	243.09	245.27		245.34	0.001709	1.28	16.67	14.01	0.29
unico	665.271*	AVE 50	31.01	243.09	245.84		246.00	0.002789	1.94	25.89	18.12	0.39
unico	665.271*	AVE 100	40.51	243.09	246.12		246.31	0.003119	2.20	31.21	20.16	0.42
unico	665.271*	AVE 500	65.91	243.09	246.74		247.01	0.003680	2.73	45.55	26.81	0.47
unico	660.700*	MCO	3.89	243.05	244.68		244.70	0.000517	0.57	8.97	9.11	0.15
unico	660.700*	AVE 10	14.70	243.05	245.24		245.33	0.002220	1.48	14.93	12.79	0.33
unico	660.700*	AVE 50	31.01	243.05	245.77		245.98	0.003886	2.28	22.80	16.96	0.46
unico	660.700*	AVE 100	40.51	243.05	246.03		246.29	0.004412	2.59	27.48	19.04	0.49
unico	660.700*	AVE 500	65.91	243.05	246.63		246.98	0.005068	3.16	40.45	24.51	0.55
unico	656.1290	MCO	3.89	243.00	244.68		244.70	0.000679	0.66	8.18	8.34	0.17
unico	656.1290	AVE 10	14.70	243.00	245.19		245.32	0.003204	1.74	13.11	11.42	0.39
unico	656.1290	AVE 50	31.01	243.00	245.63		245.94	0.006516	2.83	18.96	15.41	0.58
unico	656.1290	AVE 100	40.51	243.00	245.84		246.24	0.007855	3.28	22.36	17.29	0.64
unico	656.1290	AVE 500	65.91	243.00	246.37		246.93	0.009246	4.03	33.03	22.88	0.72
unico	651.158*	MCO	3.89	243.00	244.67		244.69	0.000653	0.64	8.24	8.28	0.17
unico	651.158*	AVE 10	14.70	243.00	245.18		245.30	0.003129	1.70	13.04	11.37	0.39
unico	651.158*	AVE 50	31.01	243.00	245.59		245.91	0.006567	2.81	18.63	15.54	0.58
unico	651.158*	AVE 100	40.51	243.00	245.78		246.21	0.008132	3.29	21.77	17.48	0.65
unico	651.158*	AVE 500	65.91	243.00	246.31	246.04	246.89	0.009425	4.01	32.51	23.24	0.73
unico	646.187*	MCO	3.89	243.00	244.67		244.69	0.000617	0.62	8.38	8.27	0.16
unico	646.187*	AVE 10	14.70	243.00	245.16		245.28	0.003022	1.66	13.06	11.42	0.38
unico	646.187*	AVE 50	31.01	243.00	245.56		245.88	0.006517	2.76	18.46	15.80	0.58
unico	646.187*	AVE 100	40.51	243.00	245.74		246.17	0.008191	3.25	21.46	17.77	0.66
unico	646.187*	AVE 500	65.91	243.00	246.26	246.02	246.84	0.009517	3.98	32.18	23.79	0.73
unico	641.2164	MCO	3.89	243.00	244.67		244.69	0.000600	0.60	8.50	8.34	0.16
unico	641.2164	AVE 10	14.70	243.00	245.15		245.27	0.002989	1.63	13.01	11.32	0.38
unico	641.2164	AVE 50	31.01	243.00	245.53		245.85	0.006668	2.75	18.15	15.98	0.58
unico	641.2164	AVE 100	40.51	243.00	245.68	245.25	246.12	0.008701	3.28	20.75	17.88	0.67
unico	641.2164	AVE 500	65.91	243.00	246.00	246.00	246.76	0.013584	4.44	26.98	21.61	0.86
unico	636.819*	MCO	3.89	243.00	244.67		244.68	0.000548	0.57	8.97	8.92	0.15
unico	636.819*	AVE 10	14.70	243.00	245.15		245.25	0.002702	1.55	13.91	12.28	0.36
unico	636.819*	AVE 50	31.01	243.00	245.53		245.81	0.005975	2.61	19.41	16.97	0.55
unico	636.819*	AVE 100	40.51	243.00	245.68		246.07	0.007748	3.10	22.22	18.96	0.64
unico	636.819*	AVE 500	65.91	243.00	245.96	245.91	246.67	0.012953	4.31	27.94	22.65	0.84
unico	632.423*	MCO	3.89	243.00	244.67		244.68	0.000503	0.55	9.51	9.60	0.15
unico	632.423*	AVE 10	14.70	243.00	245.14		245.24	0.002441	1.47	14.86	12.98	0.34
unico	632.423*	AVE 50	31.01	243.00	245.52		245.77	0.005394	2.48	20.76	18.16	0.53
unico	632.423*	AVE 100	40.51	243.00	245.68		246.03	0.006958	2.94	23.80	20.32	0.60
unico	632.423*	AVE 500	65.91	243.00	245.97	245.81	246.59	0.011440	4.06	30.23	24.75	0.79
unico	628.026*	MCO	3.89	243.00	244.67		244.68	0.000457	0.52	10.13	10.49	0.14
unico	628.026*	AVE 10	14.70	243.00	245.14		245.22	0.002213	1.40	15.78	13.85	0.33
unico	628.026*	AVE 50	31.01	243.00	245.52		245.74	0.004895	2.36	22.08	19.56	0.50
unico	628.026*	AVE 100	40.51	243.00	245.68		245.99	0.006305	2.80	25.39	22.08	0.58
unico	628.026*	AVE 500	65.91	243.00	245.97	245.74	246.52	0.010086	3.83	32.69	27.06	0.74
unico	623.6300	MCO	3.89	243.00	244.66		244.67	0.000413	0.50	10.85	11.20	0.13
unico	623.6300	AVE 10	14.70	243.00	245.14		245.21	0.002032	1.34	16.79	15.03	0.31
unico	623.6300	AVE 50	31.01	243.00	245.51		245.72	0.004475	2.25	23.62	21.44	0.48
unico	623.6300	AVE 100	40.51	243.00	245.67		245.95	0.005718	2.67	27.30	24.31	0.55
unico	623.6300	AVE 500	65.91	243.00	245.99	245.69	246.46	0.008812	3.59	35.79	29.90	0.70
unico	619.176*	MCO	3.89	243.00	244.66		244.67	0.000295	0.44	12.62	12.56	0.12
unico	619.176*	AVE 10	14.70	243.00	245.14		245.20	0.001490	1.18	19.99	19.18	0.27
unico	619.176*	AVE 50	31.01	243.00	245.54		245.68	0.003057	1.92	28.79	24.97	0.40
unico	619.176*	AVE 100	40.51	243.00	245.71		245.90	0.003834	2.26	33.40	27.92	0.46

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	619.176*	AVE 500	65.91	243.00	246.07		246.38	0.005546	2.97	44.42	33.32	0.56
unico	614.722*	MCO	3.89	243.00	244.66		244.67	0.000220	0.39	14.74	15.62	0.10
unico	614.722*	AVE 10	14.70	243.00	245.15		245.19	0.001057	1.02	24.06	22.39	0.23
unico	614.722*	AVE 50	31.01	243.00	245.56		245.66	0.002166	1.66	34.23	28.06	0.34
unico	614.722*	AVE 100	40.51	243.00	245.74		245.87	0.002703	1.94	39.59	30.96	0.39
unico	614.722*	AVE 500	65.91	243.00	246.11		246.33	0.003865	2.55	52.05	35.50	0.47
unico	610.268*	MCO	3.89	243.00	244.66		244.67	0.000158	0.34	17.76	19.60	0.09
unico	610.268*	AVE 10	14.70	243.00	245.15		245.18	0.000743	0.88	28.59	24.33	0.20
unico	610.268*	AVE 50	31.01	243.00	245.57		245.64	0.001567	1.44	40.04	30.89	0.29
unico	610.268*	AVE 100	40.51	243.00	245.75		245.85	0.001936	1.68	45.99	32.81	0.33
unico	610.268*	AVE 500	65.91	243.00	246.14		246.30	0.002837	2.23	59.40	37.47	0.41
unico	605.8145	MCO	3.89	243.01	244.67		244.67	0.000110	0.29	21.54	22.31	0.07
unico	605.8145	AVE 10	14.70	243.01	245.15		245.18	0.000542	0.77	33.38	27.04	0.17
unico	605.8145	AVE 50	31.01	243.01	245.57		245.63	0.001146	1.26	46.05	32.64	0.25
unico	605.8145	AVE 100	40.51	243.01	245.76		245.84	0.001429	1.48	52.37	34.27	0.29
unico	605.8145	AVE 500	65.91	243.01	246.15		246.28	0.002181	1.99	66.58	39.93	0.36
unico	600.999*	MCO	3.89	243.14	244.66		244.67	0.000133	0.29	21.94	22.85	0.08
unico	600.999*	AVE 10	14.70	243.14	245.15		245.17	0.000609	0.77	33.92	27.09	0.18
unico	600.999*	AVE 50	31.01	243.14	245.57		245.62	0.001268	1.26	46.48	32.78	0.26
unico	600.999*	AVE 100	40.51	243.14	245.76		245.83	0.001583	1.48	52.87	35.27	0.30
unico	600.999*	AVE 500	65.91	243.14	246.14		246.26	0.002355	1.99	67.66	41.51	0.37
unico	596.184*	MCO	3.89	243.28	244.66		244.67	0.000155	0.29	22.39	23.43	0.08
unico	596.184*	AVE 10	14.70	243.28	245.15		245.17	0.000670	0.75	34.70	27.82	0.18
unico	596.184*	AVE 50	31.01	243.28	245.57		245.61	0.001385	1.24	47.86	35.41	0.27
unico	596.184*	AVE 100	40.51	243.28	245.76		245.82	0.001701	1.46	54.79	38.49	0.30
unico	596.184*	AVE 500	65.91	243.28	246.14		246.25	0.002446	1.93	71.14	45.97	0.37
unico	591.37*	MCO	3.89	243.41	244.66		244.67	0.000171	0.27	23.09	24.92	0.08
unico	591.37*	AVE 10	14.70	243.41	245.15		245.16	0.000706	0.71	36.85	32.67	0.18
unico	591.37*	AVE 50	31.01	243.41	245.57		245.60	0.001370	1.17	52.43	42.07	0.26
unico	591.37*	AVE 100	40.51	243.41	245.76		245.81	0.001648	1.36	60.76	45.89	0.29
unico	591.37*	AVE 500	65.91	243.41	246.15		246.23	0.002226	1.77	80.36	53.18	0.35
unico	586.5552	MCO	3.89	243.55	244.66		244.67	0.000174	0.24	25.56	33.45	0.08
unico	586.5552	AVE 10	14.70	243.55	245.15		245.16	0.000613	0.61	44.73	44.03	0.17
unico	586.5552	AVE 50	31.01	243.55	245.57		245.59	0.001058	0.96	64.53	49.72	0.23
unico	586.5552	AVE 100	40.51	243.55	245.76		245.79	0.001249	1.12	74.33	52.58	0.25
unico	586.5552	AVE 500	65.91	243.55	246.16		246.21	0.001662	1.45	96.63	58.62	0.30
unico	581.731*	MCO	3.89	243.74	244.66		244.66	0.000334	0.30	21.90	35.49	0.11
unico	581.731*	AVE 10	14.70	243.74	245.15		245.16	0.000895	0.69	42.14	47.20	0.20
unico	581.731*	AVE 50	31.01	243.74	245.57		245.59	0.001307	1.01	63.42	53.11	0.25
unico	581.731*	AVE 100	40.51	243.74	245.76		245.79	0.001455	1.15	73.81	55.37	0.27
unico	581.731*	AVE 500	65.91	243.74	246.16		246.20	0.001759	1.44	96.67	58.58	0.31
unico	576.907*	MCO	3.89	243.93	244.66		244.66	0.000819	0.42	17.45	37.21	0.17
unico	576.907*	AVE 10	14.70	243.93	245.14		245.15	0.001434	0.81	38.86	51.51	0.25
unico	576.907*	AVE 50	31.01	243.93	245.56		245.58	0.001666	1.08	61.74	56.64	0.28
unico	576.907*	AVE 100	40.51	243.93	245.75		245.78	0.001751	1.20	72.81	58.57	0.29
unico	576.907*	AVE 500	65.91	243.93	246.15		246.19	0.001974	1.47	96.91	61.66	0.32
unico	572.0838	MCO	3.89	244.11	244.65		244.65	0.002604	0.64	12.40	35.84	0.29
unico	572.0838	AVE 10	14.70	244.11	245.12		245.14	0.002423	0.97	34.89	55.40	0.31
unico	572.0838	AVE 50	31.01	244.11	245.55		245.57	0.002179	1.17	59.48	60.31	0.32
unico	572.0838	AVE 100	40.51	244.11	245.74		245.77	0.002163	1.27	71.31	62.46	0.32
unico	572.0838	AVE 500	65.91	244.11	246.14		246.18	0.002254	1.50	97.18	66.09	0.34
unico	568.179*	MCO	3.89	244.08	244.62		244.64	0.004102	0.82	9.65	30.03	0.37
unico	568.179*	AVE 10	14.70	244.08	245.10		245.13	0.003566	1.19	28.17	46.64	0.38
unico	568.179*	AVE 50	31.01	244.08	245.52		245.56	0.003273	1.44	49.81	55.75	0.39
unico	568.179*	AVE 100	40.51	244.08	245.71		245.76	0.003187	1.55	60.90	59.52	0.39
unico	568.179*	AVE 500	65.91	244.08	246.11		246.17	0.003119	1.78	85.64	63.95	0.40
unico	564.274*	MCO	3.89	244.04	244.60		244.62	0.004757	0.91	8.29	25.08	0.40
unico	564.274*	AVE 10	14.70	244.04	245.07		245.11	0.004600	1.36	24.31	41.90	0.43
unico	564.274*	AVE 50	31.01	244.04	245.49		245.54	0.004087	1.62	43.85	50.02	0.43
unico	564.274*	AVE 100	40.51	244.04	245.68		245.74	0.003962	1.74	53.76	53.29	0.44
unico	564.274*	AVE 500	65.91	244.04	246.08		246.15	0.004007	2.02	76.09	59.90	0.45
unico	560.3693	MCO	3.89	244.01	244.58		244.61	0.004219	0.89	8.03	21.20	0.38
unico	560.3693	AVE 10	14.70	244.01	245.04		245.09	0.005384	1.49	21.90	38.57	0.47
unico	560.3693	AVE 50	31.01	244.01	245.46		245.53	0.004833	1.78	39.85	46.41	0.47
unico	560.3693	AVE 100	40.51	244.01	245.65		245.72	0.004670	1.90	49.02	49.50	0.47
unico	560.3693	AVE 500	65.91	244.01	246.04		246.13	0.004716	2.20	69.63	55.76	0.49
unico	555.529*	MCO	3.89	244.01	244.55		244.58	0.005485	0.96	7.29	20.30	0.42
unico	555.529*	AVE 10	14.70	244.01	244.99		245.06	0.007211	1.65	19.05	34.61	0.54
unico	555.529*	AVE 50	31.01	244.01	245.41		245.50	0.006222	1.96	36.28	45.57	0.53

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	555.529*	AVE 100	40.51	244.01	245.61		245.70	0.005723	2.05	45.51	48.70	0.52
unico	555.529*	AVE 500	65.91	244.01	246.00		246.11	0.005495	2.33	65.92	54.98	0.53
unico	550.690*	MCO	3.89	244.02	244.51		244.55	0.008161	1.08	6.34	19.20	0.51
unico	550.690*	AVE 10	14.70	244.02	244.93		245.02	0.009779	1.82	16.42	29.77	0.62
unico	550.690*	AVE 50	31.01	244.02	245.34		245.46	0.008750	2.22	31.69	43.42	0.62
unico	550.690*	AVE 100	40.51	244.02	245.55		245.66	0.007520	2.27	41.13	47.61	0.59
unico	550.690*	AVE 500	65.91	244.02	245.95		246.08	0.006603	2.50	61.65	53.95	0.58
unico	545.8505	MCO	3.89	244.03	244.41		244.48	0.023438	1.49	4.35	16.93	0.82
unico	545.8505	AVE 10	14.70	244.03	244.83		244.95	0.016699	2.14	13.20	25.80	0.79
unico	545.8505	AVE 50	31.01	244.03	245.24		245.40	0.013249	2.56	26.21	37.55	0.75
unico	545.8505	AVE 100	40.51	244.03	245.45		245.61	0.011729	2.68	34.75	45.74	0.73
unico	545.8505	AVE 500	65.91	244.03	245.89		246.04	0.008367	2.72	56.55	52.88	0.65
unico	541.686*	MCO	3.89	243.82	244.26	244.24	244.37	0.029264	1.72	3.45	13.78	0.92
unico	541.686*	AVE 10	14.70	243.82	244.70		244.87	0.019139	2.37	11.48	22.78	0.85
unico	541.686*	AVE 50	31.01	243.82	245.13		245.34	0.014580	2.77	23.61	33.94	0.80
unico	541.686*	AVE 100	40.51	243.82	245.35		245.56	0.012233	2.83	31.96	41.00	0.75
unico	541.686*	AVE 500	65.91	243.82	245.80		246.00	0.009271	2.95	53.49	53.40	0.68
unico	537.523*	MCO	3.89	243.61	244.07	244.07	244.22	0.040031	1.94	2.71	10.12	1.07
unico	537.523*	AVE 10	14.70	243.61	244.54	244.50	244.78	0.022727	2.62	9.72	19.42	0.93
unico	537.523*	AVE 50	31.01	243.61	244.99	244.87	245.27	0.016925	3.03	20.48	29.29	0.86
unico	537.523*	AVE 100	40.51	243.61	245.23		245.50	0.013883	3.08	28.37	36.87	0.80
unico	537.523*	AVE 500	65.91	243.61	245.71		245.95	0.010037	3.16	49.70	50.75	0.72
unico	533.3597	MCO	3.89	243.39	244.01		244.10	0.016376	1.49	3.54	10.28	0.71
unico	533.3597	AVE 10	14.70	243.39	244.48	244.37	244.69	0.015960	2.39	10.35	18.42	0.79
unico	533.3597	AVE 50	31.01	243.39	244.91		245.20	0.014817	2.97	20.00	26.31	0.82
unico	533.3597	AVE 100	40.51	243.39	245.10	244.94	245.43	0.015171	3.27	25.23	31.71	0.84
unico	533.3597	AVE 500	65.91	243.39	245.59		245.90	0.011384	3.41	45.04	47.58	0.76
unico	529.238*	MCO	3.89	243.34	243.95		244.03	0.015837	1.45	3.71	10.69	0.70
unico	529.238*	AVE 10	14.70	243.34	244.42		244.62	0.016289	2.40	10.30	17.85	0.80
unico	529.238*	AVE 50	31.01	243.34	244.84	244.72	245.14	0.015665	3.03	19.51	25.43	0.84
unico	529.238*	AVE 100	40.51	243.34	245.03	244.90	245.36	0.015619	3.31	24.60	29.49	0.85
unico	529.238*	AVE 500	65.91	243.34	245.49		245.85	0.013276	3.63	41.86	45.47	0.82
unico	525.117*	MCO	3.89	243.28	243.89		243.97	0.014056	1.37	4.00	11.07	0.86
unico	525.117*	AVE 10	14.70	243.28	244.36		244.55	0.015970	2.36	10.45	17.53	0.79
unico	525.117*	AVE 50	31.01	243.28	244.78	244.64	245.07	0.016073	3.06	19.28	24.57	0.85
unico	525.117*	AVE 100	40.51	243.28	244.97	244.82	245.30	0.015884	3.32	24.26	28.01	0.86
unico	525.117*	AVE 500	65.91	243.28	245.41	245.25	245.79	0.014484	3.76	39.78	42.68	0.86
unico	520.996*	MCO	3.89	243.23	243.85		243.91	0.011172	1.25	4.47	11.44	0.59
unico	520.996*	AVE 10	14.70	243.23	244.31		244.49	0.015267	2.31	10.70	17.19	0.77
unico	520.996*	AVE 50	31.01	243.23	244.70	244.56	245.00	0.017081	3.11	18.81	23.72	0.87
unico	520.996*	AVE 100	40.51	243.23	244.88	244.75	245.23	0.017361	3.42	23.33	26.77	0.90
unico	520.996*	AVE 500	65.91	243.23	245.30	245.14	245.73	0.016582	3.95	36.94	39.09	0.91
unico	516.8754	MCO	3.89	243.17	243.82		243.87	0.008160	1.11	5.12	11.84	0.51
unico	516.8754	AVE 10	14.70	243.17	244.26		244.42	0.013993	2.23	11.16	17.05	0.74
unico	516.8754	AVE 50	31.01	243.17	244.64		244.93	0.017306	3.12	18.76	23.23	0.87
unico	516.8754	AVE 100	40.51	243.17	244.80	244.67	245.15	0.018536	3.49	22.73	25.88	0.92
unico	516.8754	AVE 500	65.91	243.17	245.13	245.00	245.64	0.021424	4.31	32.47	33.53	1.03
unico	512.185*	MCO	3.89	243.20	243.77		243.82	0.011040	1.18	4.84	12.58	0.58
unico	512.185*	AVE 10	14.70	243.20	244.18		244.35	0.017364	2.31	10.77	17.47	0.81
unico	512.185*	AVE 50	31.01	243.20	244.53	244.41	244.84	0.021005	3.23	17.92	22.94	0.95
unico	512.185*	AVE 100	40.51	243.20	244.69	244.59	245.05	0.022341	3.61	21.61	25.23	1.00
unico	512.185*	AVE 500	65.91	243.20	245.03	244.97	245.53	0.023660	4.33	31.26	31.14	1.07
unico	507.496*	MCO	3.89	243.23	243.71		243.76	0.016824	1.24	4.47	13.30	0.69
unico	507.496*	AVE 10	14.70	243.23	244.09		244.25	0.022132	2.37	10.42	17.91	0.90
unico	507.496*	AVE 50	31.01	243.23	244.43	244.32	244.73	0.024721	3.25	17.49	23.06	1.01
unico	507.496*	AVE 100	40.51	243.23	244.57	244.49	244.94	0.026403	3.66	20.93	25.14	1.07
unico	507.496*	AVE 500	65.91	243.23	244.94	244.87	245.41	0.024908	4.25	31.22	30.55	1.08
unico	502.8065	MCO	3.89	243.26	243.55	243.48	243.62	0.053337	1.36	3.25	11.85	1.09
unico	502.8065	AVE 10	14.70	243.26	243.92	243.85	244.11	0.040537	2.63	8.98	18.21	1.15
unico	502.8065	AVE 50	31.01	243.26	244.25	244.19	244.58	0.038294	3.53	15.66	22.81	1.22
unico	502.8065	AVE 100	40.51	243.26	244.45	244.37	244.80	0.031084	3.67	20.67	25.97	1.14
unico	502.8065	AVE 500	65.91	243.26	244.88	244.73	245.27	0.023403	4.00	33.36	32.65	1.04
unico	498.921*	MCO	3.89	242.97	243.33	243.26	243.41	0.051753	1.61	3.14	11.67	1.12
unico	498.921*	AVE 10	14.70	242.97	243.65	243.65	243.92	0.052876	3.02	7.77	16.28	1.32
unico	498.921*	AVE 50	31.01	242.97	244.01	244.01	244.41	0.041617	3.78	14.25	19.42	1.28
unico	498.921*	AVE 100	40.51	242.97	244.18	244.18	244.65	0.038444	4.09	17.88	21.81	1.26
unico	498.921*	AVE 500	65.91	242.97	244.67	244.56	245.16	0.026093	4.33	30.07	28.72	1.11
unico	495.035*	MCO	3.89	242.68	243.07	243.04	243.19	0.060399	1.85	2.82	10.86	1.23
unico	495.035*	AVE 10	14.70	242.68	243.44	243.44	243.73	0.045350	3.02	7.82	15.42	1.25

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	495.035*	AVE 50	31.01	242.68	243.84	243.82	244.24	0.033511	3.66	14.70	18.68	1.17
unico	495.035*	AVE 100	40.51	242.68	244.07	244.00	244.49	0.027772	3.81	19.09	20.60	1.10
unico	495.035*	AVE 500	65.91	242.68	244.63	244.42	245.06	0.018412	3.99	32.37	26.85	0.95
unico	491.15*	MCO	3.89	242.39	242.83	242.80	242.96	0.056439	1.92	2.73	10.15	1.21
unico	491.15*	AVE 10	14.70	242.39	243.36	243.22	243.55	0.020421	2.44	9.90	15.65	0.88
unico	491.15*	AVE 50	31.01	242.39	243.85		244.12	0.016113	2.98	18.42	19.26	0.84
unico	491.15*	AVE 100	40.51	242.39	244.07		244.38	0.015296	3.23	22.87	21.06	0.84
unico	491.15*	AVE 500	65.91	242.39	244.62		244.98	0.012594	3.61	35.92	26.64	0.81
unico	487.2645	MCO	3.89	242.10	242.84		242.88	0.005883	1.02	5.75	12.87	0.44
unico	487.2645	AVE 10	14.70	242.10	243.37		243.48	0.007592	1.83	13.54	16.45	0.56
unico	487.2645	AVE 50	31.01	242.10	243.86		244.05	0.008621	2.49	22.35	19.87	0.64
unico	487.2645	AVE 100	40.51	242.10	244.08		244.31	0.009000	2.78	26.90	21.61	0.67
unico	487.2645	AVE 500	65.91	242.10	244.62		244.92	0.008729	3.27	39.93	26.80	0.68
unico	482.844*	MCO	3.89	242.12	242.81		242.85	0.006823	1.06	5.50	12.07	0.47
unico	482.844*	AVE 10	14.70	242.12	243.32		243.44	0.009341	1.96	12.47	15.38	0.62
unico	482.844*	AVE 50	31.01	242.12	243.76		244.00	0.011457	2.77	20.10	19.10	0.73
unico	482.844*	AVE 100	40.51	242.12	243.97		244.26	0.011942	3.08	24.28	20.97	0.76
unico	482.844*	AVE 500	65.91	242.12	244.44	244.07	244.86	0.013000	3.79	36.83	37.23	0.83
unico	478.424*	MCO	3.89	242.14	242.77		242.81	0.008603	1.13	5.09	11.25	0.52
unico	478.424*	AVE 10	14.70	242.14	243.24		243.39	0.013003	2.19	11.12	14.92	0.72
unico	478.424*	AVE 50	31.01	242.14	243.69		243.94	0.013393	2.90	21.02	27.35	0.78
unico	478.424*	AVE 100	40.51	242.14	243.96		244.19	0.010913	2.93	28.54	30.25	0.72
unico	478.424*	AVE 500	65.91	242.14	244.53		244.76	0.007817	3.03	47.90	36.61	0.64
unico	474.0047	MCO	3.89	242.16	242.73		242.77	0.010054	1.16	5.16	12.88	0.56
unico	474.0047	AVE 10	14.70	242.16	243.19		243.33	0.013006	2.13	11.74	15.56	0.71
unico	474.0047	AVE 50	31.01	242.16	243.64		243.88	0.013916	2.88	19.36	18.18	0.79
unico	474.0047	AVE 100	40.51	242.16	243.84		244.13	0.014618	3.23	23.03	19.32	0.83
unico	474.0047	AVE 500	65.91	242.16	244.27		244.69	0.015783	3.96	31.89	21.82	0.90
unico	469.779*	MCO	3.89	242.16	242.68		242.72	0.011466	1.17	4.87	12.11	0.59
unico	469.779*	AVE 10	14.70	242.16	243.10		243.26	0.016534	2.26	10.54	14.90	0.79
unico	469.779*	AVE 50	31.01	242.16	243.48		243.80	0.019997	3.21	16.88	18.63	0.93
unico	469.779*	AVE 100	40.51	242.16	243.68	243.37	244.05	0.019646	3.51	20.68	20.03	0.95
unico	469.779*	AVE 500	65.91	242.16	244.17		244.62	0.017090	3.99	31.24	23.47	0.93
unico	465.553*	MCO	3.89	242.15	242.62		242.67	0.013636	1.19	4.71	12.92	0.63
unico	465.553*	AVE 10	14.70	242.15	243.03		243.19	0.017892	2.24	10.37	15.22	0.82
unico	465.553*	AVE 50	31.01	242.15	243.41		243.71	0.020096	3.11	16.62	17.42	0.93
unico	465.553*	AVE 100	40.51	242.15	243.60	243.40	243.96	0.020174	3.44	20.02	18.51	0.95
unico	465.553*	AVE 500	65.91	242.15	244.02	243.83	244.53	0.019947	4.12	28.47	21.01	0.99
unico	461.3275	MCO	3.89	242.14	242.52		242.59	0.026363	1.38	3.89	13.60	0.84
unico	461.3275	AVE 10	14.70	242.14	242.92		243.10	0.023613	2.35	9.64	15.69	0.92
unico	461.3275	AVE 50	31.01	242.14	243.32	243.15	243.62	0.021550	3.08	16.42	17.85	0.95
unico	461.3275	AVE 100	40.51	242.14	243.52	243.33	243.87	0.020645	3.37	20.03	18.90	0.95
unico	461.3275	AVE 500	65.91	242.14	243.96	243.74	244.44	0.018943	3.95	29.04	21.30	0.96
unico	457.457*	MCO	3.89	241.98	242.40		242.49	0.024670	1.52	3.75	13.17	0.84
unico	457.457*	AVE 10	14.70	241.98	242.81		243.00	0.021891	2.42	9.55	15.46	0.90
unico	457.457*	AVE 50	31.01	241.98	243.23		243.54	0.019702	3.10	16.53	17.68	0.92
unico	457.457*	AVE 100	40.51	241.98	243.43		243.79	0.018890	3.38	20.22	18.76	0.92
unico	457.457*	AVE 500	65.91	241.98	243.89		244.36	0.017612	3.95	29.33	21.19	0.93
unico	453.586*	MCO	3.89	241.81	242.29	242.26	242.39	0.023788	1.62	3.54	12.84	0.84
unico	453.586*	AVE 10	14.70	241.81	242.71		242.92	0.019685	2.43	9.60	15.28	0.86
unico	453.586*	AVE 50	31.01	241.81	243.14		243.46	0.018206	3.11	16.66	17.54	0.89
unico	453.586*	AVE 100	40.51	241.81	243.34		243.72	0.018089	3.41	20.20	18.60	0.91
unico	453.586*	AVE 500	65.91	241.81	243.80		244.29	0.017157	4.00	29.27	21.05	0.93
unico	449.716*	MCO	3.89	241.65	242.21		242.31	0.017539	1.52	3.77	12.87	0.73
unico	449.716*	AVE 10	14.70	241.65	242.65		242.85	0.017348	2.39	9.87	15.26	0.82
unico	449.716*	AVE 50	31.01	241.65	243.08		243.39	0.016905	3.09	16.95	17.51	0.86
unico	449.716*	AVE 100	40.51	241.65	243.27		243.65	0.017163	3.41	20.43	18.54	0.89
unico	449.716*	AVE 500	65.91	241.65	243.72		244.22	0.016890	4.03	29.29	20.94	0.92
unico	445.8461	MCO	3.89	241.48	242.08	242.08	242.22	0.028538	1.81	2.98	12.55	0.92
unico	445.8461	AVE 10	14.70	241.48	242.47	242.47	242.76	0.027686	2.82	8.30	14.65	1.01
unico	445.8461	AVE 50	31.01	241.48	242.85	242.85	243.30	0.027309	3.64	14.25	16.62	1.08
unico	445.8461	AVE 100	40.51	241.48	243.04	243.04	243.55	0.026482	3.96	17.46	17.58	1.09
unico	445.8461	AVE 500	65.91	241.48	243.46	243.46	244.13	0.025158	4.62	25.34	19.84	1.11
unico	442.007*	MCO	3.89	241.39	241.86	241.91	242.07	0.050166	2.18	2.43	11.48	1.19
unico	442.007*	AVE 10	14.70	241.39	242.33	242.30	242.60	0.024854	2.73	8.57	14.43	0.97
unico	442.007*	AVE 50	31.01	241.39	242.78	242.69	243.15	0.020795	3.35	15.57	16.73	0.95
unico	442.007*	AVE 100	40.51	241.39	242.98	242.87	243.41	0.020302	3.65	19.04	17.76	0.96
unico	442.007*	AVE 500	65.91	241.39	243.41	243.30	244.00	0.020135	4.33	27.23	20.01	1.00
unico	438.169*	MCO	3.89	241.29	241.84	241.74	241.91	0.013475	1.39	4.18	12.20	0.65

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	438.169*	AVE 10	14.70	241.29	242.34		242.50	0.012442	2.17	10.98	14.97	0.71
unico	438.169*	AVE 50	31.01	241.29	242.78		243.06	0.013441	2.90	18.18	17.31	0.78
unico	438.169*	AVE 100	40.51	241.29	242.98		243.32	0.013892	3.23	21.79	18.33	0.81
unico	438.169*	AVE 500	65.91	241.29	243.42		243.89	0.014990	3.93	30.24	20.51	0.88
unico	434.330*	MCO	3.89	241.20	241.84		241.87	0.004962	0.98	6.09	12.75	0.41
unico	434.330*	AVE 10	14.70	241.20	242.33		242.45	0.007657	1.83	13.13	15.49	0.56
unico	434.330*	AVE 50	31.01	241.20	242.78		243.00	0.009604	2.59	20.60	17.82	0.67
unico	434.330*	AVE 100	40.51	241.20	242.98		243.25	0.010350	2.92	24.32	18.86	0.71
unico	434.330*	AVE 500	65.91	241.20	243.42		243.82	0.011860	3.64	33.04	21.08	0.79
unico	430.4919	MCO	3.89	241.10	241.83		241.85	0.002433	0.75	7.97	13.31	0.29
unico	430.4919	AVE 10	14.70	241.10	242.33		242.41	0.005182	1.59	15.27	16.02	0.47
unico	430.4919	AVE 50	31.01	241.10	242.78		242.95	0.007250	2.34	23.02	18.39	0.59
unico	430.4919	AVE 100	40.51	241.10	242.99		243.20	0.008046	2.67	26.89	19.46	0.63
unico	430.4919	AVE 500	65.91	241.10	243.43		243.76	0.009622	3.37	35.93	21.66	0.72
unico	425.931*	MCO	3.89	241.17	241.82		241.84	0.003691	0.82	7.15	13.33	0.35
unico	425.931*	AVE 10	14.70	241.17	242.29		242.38	0.006906	1.70	14.17	16.08	0.53
unico	425.931*	AVE 50	31.01	241.17	242.73		242.91	0.009149	2.47	21.68	18.50	0.65
unico	425.931*	AVE 100	40.51	241.17	242.93		243.16	0.009983	2.81	25.43	19.56	0.69
unico	425.931*	AVE 500	65.91	241.17	243.35		243.71	0.011581	3.52	34.26	21.80	0.78
unico	421.370*	MCO	3.89	241.23	241.79		241.82	0.005955	0.90	6.30	13.27	0.43
unico	421.370*	AVE 10	14.70	241.23	242.24		242.35	0.009687	1.83	12.97	16.10	0.62
unico	421.370*	AVE 50	31.01	241.23	242.66		242.86	0.012023	2.62	20.17	18.53	0.73
unico	421.370*	AVE 100	40.51	241.23	242.85		243.11	0.012865	2.97	23.79	19.64	0.77
unico	421.370*	AVE 500	65.91	241.23	243.26		243.65	0.014553	3.71	32.30	22.07	0.86
unico	416.809*	MCO	3.89	241.29	241.75		241.78	0.011277	0.97	5.30	13.12	0.56
unico	416.809*	AVE 10	14.70	241.29	242.17		242.29	0.015331	2.01	11.47	16.15	0.75
unico	416.809*	AVE 50	31.01	241.29	242.56		242.80	0.017381	2.84	18.31	18.79	0.86
unico	416.809*	AVE 100	40.51	241.29	242.74		243.04	0.017961	3.20	21.84	19.99	0.89
unico	416.809*	AVE 500	65.91	241.29	243.15	242.86	243.57	0.018752	3.91	30.47	22.74	0.95
unico	412.2492	MCO	3.89	241.35	241.61	241.53	241.68	0.053805	1.17	3.23	10.62	1.05
unico	412.2492	AVE 10	14.70	241.35	241.97	241.88	242.17	0.048184	2.54	8.23	15.94	1.22
unico	412.2492	AVE 50	31.01	241.35	242.37	242.24	242.68	0.035736	3.34	14.94	18.31	1.17
unico	412.2492	AVE 100	40.51	241.35	242.55	242.41	242.92	0.033350	3.68	18.32	19.40	1.17
unico	412.2492	AVE 500	65.91	241.35	242.92	242.80	243.45	0.031943	4.44	26.00	21.66	1.20
unico	408.295*	MCO	3.89	241.03	241.37	241.32	241.46	0.061558	1.52	3.05	10.84	1.18
unico	408.295*	AVE 10	14.70	241.03	241.74	241.68	241.98	0.047445	2.81	7.85	14.51	1.24
unico	408.295*	AVE 50	31.01	241.03	242.07	242.07	242.51	0.046369	3.86	13.04	16.77	1.33
unico	408.295*	AVE 100	40.51	241.03	242.26	242.26	242.76	0.041667	4.17	16.28	18.15	1.31
unico	408.295*	AVE 500	65.91	241.03	242.69	242.69	243.31	0.033369	4.71	25.10	22.14	1.24
unico	404.342*	MCO	3.89	240.70	241.14	241.09	241.24	0.049668	1.70	3.09	10.92	1.12
unico	404.342*	AVE 10	14.70	240.70	241.48	241.48	241.78	0.049666	3.08	7.42	14.00	1.29
unico	404.342*	AVE 50	31.01	240.70	241.84	241.88	242.33	0.043504	3.99	12.94	16.47	1.31
unico	404.342*	AVE 100	40.51	240.70	242.01	242.07	242.59	0.043025	4.41	15.67	17.53	1.34
unico	404.342*	AVE 500	65.91	240.70	242.39	242.49	243.16	0.039519	5.15	22.85	19.95	1.35
unico	400.389*	MCO	3.89	240.38	240.84	240.84	241.00	0.072708	2.12	2.52	9.61	1.36
unico	400.389*	AVE 10	14.70	240.38	241.31	241.27	241.58	0.031938	2.85	8.31	14.15	1.08
unico	400.389*	AVE 50	31.01	240.38	241.71	241.68	242.13	0.029674	3.69	14.44	16.81	1.12
unico	400.389*	AVE 100	40.51	240.38	241.88	241.86	242.39	0.030314	4.09	17.38	17.93	1.15
unico	400.389*	AVE 500	65.91	240.38	242.38	242.29	242.96	0.023660	4.51	27.18	21.19	1.08
unico	396.4361	MCO	3.89	240.05	240.86	240.56	240.90	0.006322	1.09	5.47	12.04	0.46
unico	396.4361	AVE 10	14.70	240.05	241.33		241.47	0.009997	2.06	12.13	15.56	0.64
unico	396.4361	AVE 50	31.01	240.05	241.74		242.01	0.013015	2.93	19.07	18.33	0.77
unico	396.4361	AVE 100	40.51	240.05	241.92		242.26	0.014284	3.32	22.49	19.58	0.83
unico	396.4361	AVE 500	65.91	240.05	242.42		242.85	0.013568	3.86	33.08	22.86	0.84
unico	392.274*	MCO	3.89	240.08	240.84		240.87	0.005433	1.02	5.94	12.33	0.43
unico	392.274*	AVE 10	14.70	240.08	241.30		241.43	0.009556	2.01	12.53	15.76	0.63
unico	392.274*	AVE 50	31.01	240.08	241.70		241.95	0.013053	2.91	19.32	18.62	0.77
unico	392.274*	AVE 100	40.51	240.08	241.87		242.19	0.014509	3.31	22.67	19.88	0.83
unico	392.274*	AVE 500	65.91	240.08	242.38		242.79	0.013444	3.82	33.76	23.66	0.84
unico	388.112*	MCO	3.89	240.11	240.82		240.85	0.004532	0.94	6.58	12.96	0.39
unico	388.112*	AVE 10	14.70	240.11	241.27		241.39	0.008812	1.92	13.21	16.15	0.60
unico	388.112*	AVE 50	31.01	240.11	241.66		241.89	0.012572	2.83	19.90	18.67	0.76
unico	388.112*	AVE 100	40.51	240.11	241.82		242.13	0.014349	3.26	23.10	19.99	0.82
unico	388.112*	AVE 500	65.91	240.11	242.34		242.72	0.013317	3.78	34.49	24.45	0.83
unico	383.9503	MCO	3.89	240.14	240.81		240.83	0.003630	0.85	7.35	13.59	0.35
unico	383.9503	AVE 10	14.70	240.14	241.25		241.35	0.007918	1.83	14.07	16.67	0.57
unico	383.9503	AVE 50	31.01	240.14	241.62		241.83	0.011847	2.74	20.74	19.10	0.74
unico	383.9503	AVE 100	40.51	240.14	241.79		242.06	0.013659	3.16	23.91	20.16	0.80
unico	383.9503	AVE 500	65.91	240.14	242.30		242.66	0.012974	3.72	35.36	24.98	0.82

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	379.802*	MCO	3.89	240.25	240.79		240.81	0.006406	0.91	6.57	14.33	0.44
unico	379.802*	AVE 10	14.70	240.25	241.21		241.31	0.011057	1.90	13.40	17.72	0.65
unico	379.802*	AVE 50	31.01	240.25	241.57		241.78	0.015073	2.80	20.32	20.58	0.81
unico	379.802*	AVE 100	40.51	240.25	241.73		242.00	0.016853	3.21	23.66	21.87	0.87
unico	379.802*	AVE 500	65.91	240.25	242.28		242.59	0.013564	3.60	37.54	28.98	0.83
unico	375.654*	MCO	3.89	240.36	240.75		240.77	0.013622	0.91	5.46	14.75	0.59
unico	375.654*	AVE 10	14.70	240.36	241.15		241.25	0.017384	1.98	12.29	18.81	0.78
unico	375.654*	AVE 50	31.01	240.36	241.50		241.70	0.020597	2.87	19.49	22.27	0.91
unico	375.654*	AVE 100	40.51	240.36	241.66	241.37	241.91	0.022452	3.29	23.01	24.42	0.98
unico	375.654*	AVE 500	65.91	240.36	242.26		242.52	0.013751	3.42	40.93	35.30	0.82
unico	371.5071	MCO	3.89	240.48	240.57	240.51	240.65	0.080486	0.72	3.03	10.64	1.08
unico	371.5071	AVE 10	14.70	240.48	240.86	240.86	241.09	0.108768	2.34	6.92	16.09	1.62
unico	371.5071	AVE 50	31.01	240.48	241.16	241.16	241.53	0.087128	3.79	12.61	21.05	1.68
unico	371.5071	AVE 100	40.51	240.48	241.32	241.32	241.74	0.075970	4.20	15.99	23.12	1.64
unico	371.5071	AVE 500	65.91	240.48	242.25		242.44	0.013680	3.19	46.62	45.14	0.81
unico	368.055*	MCO	3.89	239.99	240.19	240.19	240.30	0.131742	1.55	2.60	11.66	1.57
unico	368.055*	AVE 10	14.70	239.99	240.51	240.51	240.77	0.082760	3.12	7.48	17.74	1.57
unico	368.055*	AVE 50	31.01	239.99	240.78	240.87	241.24	0.080327	4.34	12.80	21.73	1.69
unico	368.055*	AVE 100	40.51	239.99	240.90	241.01	241.46	0.081955	4.87	15.40	23.55	1.75
unico	368.055*	AVE 500	65.91	239.99	242.30		242.39	0.004258	2.20	72.19	54.88	0.47
unico	364.603*	MCO	3.89	239.50	239.81	239.82	239.95	0.082512	2.17	2.84	13.14	1.44
unico	364.603*	AVE 10	14.70	239.50	240.08	240.18	240.47	0.084601	3.71	7.00	16.97	1.66
unico	364.603*	AVE 50	31.01	239.50	240.37	240.52	240.96	0.075678	4.74	12.59	21.69	1.69
unico	364.603*	AVE 100	40.51	239.50	240.51	240.63	241.18	0.072878	5.16	15.67	24.29	1.70
unico	364.603*	AVE 500	65.91	239.50	242.32		242.37	0.001733	1.63	100.63	62.62	0.31
unico	361.1518	MCO	3.89	239.01	239.43	239.38	239.53	0.025308	1.71	3.72	12.25	0.87
unico	361.1518	AVE 10	14.70	239.01	239.80	239.78	240.06	0.030704	2.94	9.31	17.88	1.07
unico	361.1518	AVE 50	31.01	239.01	240.33	240.15	240.60	0.019128	3.27	22.32	36.37	0.92
unico	361.1518	AVE 100	40.51	239.01	240.83	240.44	240.94	0.006088	2.31	43.72	47.40	0.55
unico	361.1518	AVE 500	65.91	239.01	242.33	240.72	242.36	0.000822	1.27	132.26	69.44	0.22
unico	356.589*	MCO	3.89	238.90	239.32		239.41	0.025876	1.68	3.81	13.26	0.87
unico	356.589*	AVE 10	14.70	238.90	239.68	239.65	239.92	0.029223	2.81	9.81	19.53	1.04
unico	356.589*	AVE 50	31.01	238.90	240.39	240.12	240.50	0.007577	2.23	33.31	43.64	0.59
unico	356.589*	AVE 100	40.51	238.90	239.89	239.89	240.80	0.086029	5.69	14.47	25.09	1.86
unico	356.589*	AVE 500	65.91	238.90	239.92	239.92	242.12	0.206115	8.94	15.06	27.16	2.89
unico	352.026*	MCO	3.89	238.78	239.20		239.29	0.026543	1.65	3.93	14.50	0.88
unico	352.026*	AVE 10	14.70	238.78	239.54	239.49	239.78	0.032287	2.83	10.00	22.31	1.08
unico	352.026*	AVE 50	31.01	238.78	239.64	239.64	240.36	0.085071	5.03	12.60	32.81	1.79
unico	352.026*	AVE 100	40.51	238.78	239.85	240.02	240.38	0.052714	4.61	20.64	41.85	1.47
unico	352.026*	AVE 500	65.91	238.78	239.88	240.23	241.13	0.121528	7.13	21.78	42.40	2.24
unico	347.464*	MCO	3.89	238.67	239.09		239.17	0.025192	1.57	4.15	15.73	0.85
unico	347.464*	AVE 10	14.70	238.67	239.48	239.48	239.63	0.021733	2.40	14.60	44.79	0.89
unico	347.464*	AVE 50	31.01	238.67	239.57	239.69	239.96	0.052935	4.04	18.59	47.66	1.42
unico	347.464*	AVE 100	40.51	238.67	239.63	239.77	240.11	0.061209	4.55	21.59	49.34	1.55
unico	347.464*	AVE 500	65.91	238.67	239.73	239.97	240.51	0.092158	6.01	26.71	52.09	1.93
unico	342.902*	MCO	3.89	238.55	238.94	238.91	239.03	0.038300	1.72	3.74	16.27	1.02
unico	342.902*	AVE 10	14.70	238.55	239.13	239.25	239.45	0.079658	3.46	9.24	41.73	1.59
unico	342.902*	AVE 50	31.01	238.55	239.30	239.41	239.68	0.074157	4.12	18.47	55.13	1.62
unico	342.902*	AVE 100	40.51	238.55	239.37	239.49	239.78	0.076570	4.46	22.16	57.04	1.67
unico	342.902*	AVE 500	65.91	238.55	239.50	239.66	240.03	0.085698	5.28	30.00	60.19	1.82
unico	338.339*	MCO	3.89	238.44	238.74	238.74	238.81	0.061436	1.70	4.56	35.40	1.21
unico	338.339*	AVE 10	14.70	238.44	238.88	238.90	239.08	0.105999	3.15	10.31	49.14	1.73
unico	338.339*	AVE 50	31.01	238.44	239.04	239.10	239.28	0.085404	3.67	19.66	62.45	1.66
unico	338.339*	AVE 100	40.51	238.44	239.10	239.17	239.38	0.086626	3.98	23.41	64.14	1.70
unico	338.339*	AVE 500	65.91	238.44	239.23	239.31	239.59	0.089212	4.64	31.96	66.88	1.79
unico	333.7772	MCO	3.89	238.32	238.46	238.39	238.49	0.040015	0.76	6.11	37.39	0.84
unico	333.7772	AVE 10	14.70	238.32	238.68	238.56	238.72	0.038067	1.50	16.30	59.34	0.98
unico	333.7772	AVE 50	31.01	238.32	238.84	238.71	238.92	0.039934	2.16	27.11	69.94	1.09
unico	333.7772	AVE 100	40.51	238.32	238.91	238.79	239.01	0.038855	2.39	32.30	71.00	1.11
unico	333.7772	AVE 500	65.91	238.32	239.08	238.93	239.22	0.037394	2.87	44.38	73.48	1.14
unico	328.853*	MCO	3.89	238.02	238.25	238.19	238.28	0.043151	1.10	5.91	37.43	0.95
unico	328.853*	AVE 10	14.70	238.02	238.45	238.36	238.52	0.046225	1.95	15.40	61.41	1.12
unico	328.853*	AVE 50	31.01	238.02	238.61	238.53	238.71	0.042485	2.47	25.48	64.95	1.16
unico	328.853*	AVE 100	40.51	238.02	238.68	238.60	238.81	0.041556	2.70	30.44	66.36	1.17
unico	328.853*	AVE 500	65.91	238.02	238.86	238.75	239.03	0.038769	3.15	42.38	68.94	1.19
unico	323.929*	MCO	3.89	237.72	238.02	237.98	238.05	0.047874	1.33	5.45	37.05	1.04
unico	323.929*	AVE 10	14.70	237.72	238.21	238.18	238.29	0.045091	2.13	14.73	56.43	1.14
unico	323.929*	AVE 50	31.01	237.72	238.36	238.31	238.50	0.045413	2.73	23.77	59.28	1.21
unico	323.929*	AVE 100	40.51	237.72	238.44	238.38	238.60	0.043594	2.95	28.65	60.93	1.22
unico	323.929*	AVE 500	65.91	237.72	238.63	238.54	238.83	0.040884	3.42	40.21	64.48	1.24

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	319.005*	MCO	3.89	237.42	237.75	237.73	237.81	0.051288	1.53	4.86	34.68	1.10
unico	319.005*	AVE 10	14.70	237.42	237.94	237.94	238.05	0.050883	2.37	13.46	51.71	1.22
unico	319.005*	AVE 50	31.01	237.42	238.12	238.08	238.27	0.045010	2.87	22.87	55.10	1.23
unico	319.005*	AVE 100	40.51	237.42	238.19	238.16	238.37	0.045389	3.14	27.16	56.42	1.26
unico	319.005*	AVE 500	65.91	237.42	238.37	238.32	238.62	0.044108	3.67	37.71	59.41	1.29
unico	314.081*	MCO	3.89	237.13	237.48	237.47	237.56	0.051368	1.65	4.47	33.94	1.12
unico	314.081*	AVE 10	14.70	237.13	237.68	237.68	237.80	0.048891	2.45	12.96	47.23	1.22
unico	314.081*	AVE 50	31.01	237.13	237.85	237.85	238.03	0.049185	3.09	21.35	51.03	1.29
unico	314.081*	AVE 100	40.51	237.13	237.94	237.92	238.15	0.046396	3.30	25.94	52.44	1.28
unico	314.081*	AVE 500	65.91	237.13	238.14	238.10	238.40	0.041943	3.75	37.07	55.90	1.28
unico	309.158*	MCO	3.89	236.83	237.19	237.17	237.29	0.056701	1.77	3.75	27.50	1.19
unico	309.158*	AVE 10	14.70	236.83	237.40	237.42	237.56	0.051078	2.60	12.25	44.30	1.25
unico	309.158*	AVE 50	31.01	236.83	237.59	237.59	237.79	0.047531	3.17	20.75	47.60	1.28
unico	309.158*	AVE 100	40.51	236.83	237.67	237.67	237.91	0.047006	3.44	24.95	49.27	1.30
unico	309.158*	AVE 500	65.91	236.83	237.86	237.86	238.18	0.047428	4.04	34.39	51.97	1.36
unico	304.234*	MCO	3.89	236.53	236.90	236.87	237.00	0.060382	1.81	3.47	18.60	1.22
unico	304.234*	AVE 10	14.70	236.53	237.12	237.15	237.30	0.052672	2.70	11.66	41.32	1.28
unico	304.234*	AVE 50	31.01	236.53	237.31	237.34	237.55	0.050995	3.34	19.62	44.73	1.34
unico	304.234*	AVE 100	40.51	236.53	237.40	237.42	237.67	0.049621	3.60	23.66	45.86	1.35
unico	304.234*	AVE 500	65.91	236.53	237.62	237.62	237.95	0.044676	4.07	34.09	49.44	1.33
unico	299.310*	MCO	3.89	236.23	236.60	236.59	236.70	0.060241	1.80	3.44	18.28	1.22
unico	299.310*	AVE 10	14.70	236.23	236.85	236.88	237.04	0.052289	2.76	11.27	38.92	1.28
unico	299.310*	AVE 50	31.01	236.23	237.04	237.07	237.30	0.050186	3.40	19.11	42.20	1.33
unico	299.310*	AVE 100	40.51	236.23	237.13	237.16	237.42	0.048812	3.66	23.13	43.64	1.34
unico	299.310*	AVE 500	65.91	236.23	237.33	237.36	237.71	0.049057	4.29	32.05	46.31	1.40
unico	294.386*	MCO	3.89	235.93	236.32	236.29	236.41	0.055893	1.78	3.57	18.85	1.18
unico	294.386*	AVE 10	14.70	235.93	236.56	236.61	236.77	0.054004	2.84	10.73	36.02	1.31
unico	294.386*	AVE 50	31.01	235.93	236.77	236.81	237.05	0.050553	3.48	18.54	40.14	1.34
unico	294.386*	AVE 100	40.51	235.93	236.86	236.90	237.18	0.050419	3.78	22.25	41.39	1.37
unico	294.386*	AVE 500	65.91	235.93	237.08	237.11	237.47	0.047452	4.32	31.58	44.10	1.39
unico	289.462*	MCO	3.89	235.63	236.01	236.01	236.12	0.062421	1.84	3.39	18.21	1.24
unico	289.462*	AVE 10	14.70	235.63	236.27	236.32	236.50	0.056290	2.91	10.14	32.81	1.34
unico	289.462*	AVE 50	31.01	235.63	236.49	236.54	236.79	0.051421	3.57	17.93	38.24	1.36
unico	289.462*	AVE 100	40.51	235.63	236.59	236.64	236.93	0.049655	3.83	21.80	39.63	1.37
unico	289.462*	AVE 500	65.91	235.63	236.80	236.86	237.23	0.048122	4.42	30.62	41.81	1.40
unico	284.538*	MCO	3.89	235.34	235.73	235.72	235.83	0.055133	1.77	3.56	18.63	1.17
unico	284.538*	AVE 10	14.70	235.34	235.98	236.03	236.22	0.057198	2.94	9.79	30.56	1.35
unico	284.538*	AVE 50	31.01	235.34	236.21	236.27	236.53	0.052574	3.64	17.37	36.44	1.38
unico	284.538*	AVE 100	40.51	235.34	236.30	236.37	236.67	0.052137	3.95	20.95	37.81	1.40
unico	284.538*	AVE 500	65.91	235.34	236.53	236.60	236.99	0.049776	4.53	29.53	39.57	1.43
unico	279.615*	MCO	3.89	235.04	235.42	235.42	235.53	0.064476	1.86	3.30	17.43	1.26
unico	279.615*	AVE 10	14.70	235.04	235.69	235.74	235.93	0.057329	2.96	9.46	28.35	1.35
unico	279.615*	AVE 50	31.01	235.04	235.92	236.00	236.27	0.053146	3.70	16.81	34.34	1.39
unico	279.615*	AVE 100	40.51	235.04	236.03	236.10	236.42	0.051456	3.99	20.52	35.93	1.40
unico	279.615*	AVE 500	65.91	235.04	236.26	236.34	236.74	0.048743	4.57	29.02	37.68	1.42
unico	274.691*	MCO	3.89	234.74	235.14	235.12	235.24	0.054107	1.76	3.53	17.99	1.16
unico	274.691*	AVE 10	14.70	234.74	235.39	235.45	235.65	0.059536	3.00	9.09	26.41	1.38
unico	274.691*	AVE 50	31.01	234.74	235.63	235.71	236.00	0.056268	3.79	16.01	31.90	1.43
unico	274.691*	AVE 100	40.51	234.74	235.74	235.83	236.15	0.053859	4.08	19.66	33.66	1.43
unico	274.691*	AVE 500	65.91	234.74	235.98	236.07	236.49	0.050031	4.67	28.11	35.87	1.44
unico	269.767*	MCO	3.89	234.44	234.84	234.83	234.95	0.065094	1.87	3.25	17.09	1.27
unico	269.767*	AVE 10	14.70	234.44	235.11	235.15	235.36	0.056745	2.96	9.04	25.35	1.35
unico	269.767*	AVE 50	31.01	234.44	235.34	235.41	235.72	0.054988	3.80	15.72	30.15	1.42
unico	269.767*	AVE 100	40.51	234.44	235.45	235.54	235.89	0.053446	4.12	19.17	31.70	1.43
unico	269.767*	AVE 500	65.91	234.44	235.71	235.81	236.25	0.049197	4.71	27.63	34.42	1.44
unico	264.843*	MCO	3.89	234.14	234.56	234.54	234.66	0.051745	1.75	3.50	17.35	1.14
unico	264.843*	AVE 10	14.70	234.14	234.81	234.86	235.07	0.058251	2.99	8.82	24.40	1.37
unico	264.843*	AVE 50	31.01	234.14	235.05	235.13	235.45	0.056064	3.84	15.24	28.36	1.43
unico	264.843*	AVE 100	40.51	234.14	235.17	235.26	235.62	0.054251	4.16	18.60	29.89	1.44
unico	264.843*	AVE 500	65.91	234.14	235.43	235.54	236.00	0.049775	4.78	26.95	32.97	1.45
unico	259.919*	MCO	3.89	233.84	234.25	234.25	234.36	0.069185	1.91	3.10	16.26	1.30
unico	259.919*	AVE 10	14.70	233.84	234.52	234.56	234.78	0.059086	3.01	8.63	23.45	1.37
unico	259.919*	AVE 50	31.01	233.84	234.76	234.84	235.17	0.056404	3.86	14.87	26.90	1.44
unico	259.919*	AVE 100	40.51	233.84	234.88	234.96	235.35	0.054763	4.20	18.12	28.38	1.45
unico	259.919*	AVE 500	65.91	233.84	235.15	235.27	235.74	0.051146	4.87	26.09	31.36	1.47
unico	254.9960	MCO	3.89	233.54	234.02	233.96	234.09	0.027858	1.46	4.32	19.17	0.86
unico	254.9960	AVE 10	14.70	233.54	234.33	234.27	234.49	0.028451	2.38	11.00	23.92	0.99
unico	254.9960	AVE 50	31.01	233.54	234.61	234.55	234.88	0.029901	3.16	18.18	27.16	1.08
unico	254.9960	AVE 100	40.51	233.54	234.73	234.68	235.06	0.030922	3.51	21.65	28.52	1.12

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	254.9960	AVE 500	65.91	233.54	235.00	234.99	235.46	0.033566	4.28	29.54	31.02	1.21
unico	250.780*	MCO	3.89	233.46	233.91		233.97	0.028468	1.46	4.40	19.43	0.87
unico	250.780*	AVE 10	14.70	233.46	234.20	234.15	234.37	0.030750	2.44	10.94	24.48	1.02
unico	250.780*	AVE 50	31.01	233.46	234.47	234.43	234.74	0.033108	3.25	17.87	27.58	1.13
unico	250.780*	AVE 100	40.51	233.46	234.59	234.56	234.92	0.033841	3.60	21.33	28.81	1.17
unico	250.780*	AVE 500	65.91	233.46	234.86	234.85	235.31	0.034856	4.30	29.41	30.85	1.23
unico	246.565*	MCO	3.89	233.38	233.79		233.85	0.029503	1.45	4.52	19.92	0.88
unico	246.565*	AVE 10	14.70	233.38	234.08	234.03	234.24	0.033037	2.46	10.98	25.17	1.05
unico	246.565*	AVE 50	31.01	233.38	234.34	234.29	234.60	0.034513	3.25	17.97	27.96	1.15
unico	246.565*	AVE 100	40.51	233.38	234.46	234.42	234.78	0.035121	3.59	21.41	29.07	1.18
unico	246.565*	AVE 500	65.91	233.38	234.73	234.71	235.16	0.034969	4.26	29.68	30.83	1.23
unico	242.349*	MCO	3.89	233.30	233.67		233.73	0.031263	1.45	4.63	21.06	0.90
unico	242.349*	AVE 10	14.70	233.30	233.94	233.89	234.09	0.034916	2.45	11.02	25.54	1.07
unico	242.349*	AVE 50	31.01	233.30	234.20	234.15	234.45	0.035825	3.24	18.01	28.10	1.16
unico	242.349*	AVE 100	40.51	233.30	234.32	234.27	234.62	0.035681	3.56	21.53	29.02	1.19
unico	242.349*	AVE 500	65.91	233.30	234.61	234.55	235.01	0.034681	4.20	30.03	30.84	1.22
unico	238.133*	MCO	3.89	233.21	233.54	233.49	233.59	0.035511	1.44	4.70	22.43	0.95
unico	238.133*	AVE 10	14.70	233.21	233.80	233.74	233.94	0.036724	2.42	11.08	25.75	1.09
unico	238.133*	AVE 50	31.01	233.21	234.07	233.99	234.30	0.035816	3.17	18.26	28.19	1.16
unico	238.133*	AVE 100	40.51	233.21	234.20	234.11	234.47	0.034811	3.47	21.99	29.18	1.17
unico	238.133*	AVE 500	65.91	233.21	234.50	234.39	234.86	0.032525	4.06	31.04	31.17	1.19
unico	233.918*	MCO	3.89	233.13	233.39	233.33	233.44	0.038868	1.37	4.73	22.76	0.97
unico	233.918*	AVE 10	14.70	233.13	233.67	233.57	233.79	0.035650	2.31	11.40	25.92	1.07
unico	233.918*	AVE 50	31.01	233.13	233.95	233.82	234.15	0.032292	3.00	19.17	28.54	1.10
unico	233.918*	AVE 100	40.51	233.13	234.09	233.94	234.33	0.030946	3.28	23.20	29.76	1.10
unico	233.918*	AVE 500	65.91	233.13	234.41	234.23	234.72	0.027803	3.82	33.25	32.12	1.10
unico	229.7029	MCO	3.89	233.05	233.26		233.30	0.030076	1.11	5.28	23.23	0.83
unico	229.7029	AVE 10	14.70	233.05	233.56		233.65	0.027244	2.02	12.69	26.55	0.93
unico	229.7029	AVE 50	31.01	233.05	233.87	233.65	234.02	0.025095	2.69	21.30	29.84	0.97
unico	229.7029	AVE 100	40.51	233.05	234.01	233.77	234.20	0.024055	2.96	25.84	31.36	0.98
unico	229.7029	AVE 500	65.91	233.05	234.36	234.06	234.60	0.021113	3.43	37.19	33.62	0.97
unico	224.937*	MCO	3.89	232.86	233.11		233.15	0.031942	1.28	4.96	21.47	0.88
unico	224.937*	AVE 10	14.70	232.86	233.41	233.28	233.52	0.029106	2.19	12.02	25.29	0.97
unico	224.937*	AVE 50	31.01	232.86	233.72	233.54	233.90	0.026785	2.87	20.31	28.65	1.01
unico	224.937*	AVE 100	40.51	232.86	233.87	233.66	234.08	0.025475	3.13	24.78	30.31	1.01
unico	224.937*	AVE 500	65.91	232.86	234.24	233.95	234.50	0.021157	3.55	36.77	33.57	0.98
unico	220.172*	MCO	3.89	232.68	232.93	232.85	232.98	0.039538	1.44	4.44	19.56	0.98
unico	220.172*	AVE 10	14.70	232.68	233.24	233.14	233.37	0.032419	2.35	11.26	23.91	1.03
unico	220.172*	AVE 50	31.01	232.68	233.56	233.41	233.76	0.028720	3.03	19.35	27.34	1.05
unico	220.172*	AVE 100	40.51	232.68	233.72	233.54	233.96	0.026271	3.26	23.96	29.12	1.04
unico	220.172*	AVE 500	65.91	232.68	234.13	233.83	234.40	0.020678	3.62	36.62	33.37	0.97
unico	215.406*	MCO	3.89	232.50	232.75	232.67	232.80	0.038023	1.42	4.30	17.55	0.97
unico	215.406*	AVE 10	14.70	232.50	233.06	232.97	233.21	0.035496	2.48	10.62	22.23	1.08
unico	215.406*	AVE 50	31.01	232.50	233.42	233.26	233.63	0.026805	3.03	19.32	26.27	1.03
unico	215.406*	AVE 100	40.51	232.50	233.61	233.40	233.84	0.023448	3.22	24.34	28.23	0.99
unico	215.406*	AVE 500	65.91	232.50	234.04		234.31	0.018234	3.55	37.58	32.90	0.92
unico	210.641*	MCO	3.89	232.32	232.55	232.48	232.61	0.044655	1.46	4.03	16.67	1.03
unico	210.641*	AVE 10	14.70	232.32	232.92	232.78	233.06	0.030483	2.39	10.87	21.09	1.01
unico	210.641*	AVE 50	31.01	232.32	233.32		233.52	0.021430	2.88	20.42	25.67	0.93
unico	210.641*	AVE 100	40.51	232.32	233.52		233.73	0.018852	3.05	25.74	27.77	0.90
unico	210.641*	AVE 500	65.91	232.32	233.97		234.23	0.015230	3.41	39.36	32.66	0.85
unico	205.8760	MCO	3.89	232.14	232.43		232.47	0.020471	1.18	5.12	17.01	0.73
unico	205.8760	AVE 10	14.70	232.14	232.84		232.94	0.017559	2.03	12.82	21.04	0.79
unico	205.8760	AVE 50	31.01	232.14	233.27		233.42	0.014625	2.58	22.85	25.54	0.78
unico	205.8760	AVE 100	40.51	232.14	233.47		233.65	0.013661	2.79	28.27	27.67	0.78
unico	205.8760	AVE 500	65.91	232.14	233.93		234.15	0.012016	3.20	42.09	32.52	0.77
unico	200.878*	MCO	3.89	231.91	232.30		232.36	0.021001	1.45	4.58	15.76	0.78
unico	200.878*	AVE 10	14.70	231.91	232.70		232.84	0.019209	2.30	11.58	19.23	0.84
unico	200.878*	AVE 50	31.01	231.91	233.13		233.34	0.016715	2.89	20.78	23.94	0.85
unico	200.878*	AVE 100	40.51	231.91	233.34		233.57	0.015344	3.09	26.03	26.13	0.84
unico	200.878*	AVE 500	65.91	231.91	233.81		234.09	0.013191	3.48	39.39	30.83	0.81
unico	195.881*	MCO	3.89	231.68	232.09	232.09	232.22	0.036174	1.93	3.27	12.98	1.02
unico	195.881*	AVE 10	14.70	231.68	232.55		232.74	0.020555	2.52	10.55	17.82	0.89
unico	195.881*	AVE 50	31.01	231.68	232.97		233.25	0.018478	3.15	18.95	21.99	0.90
unico	195.881*	AVE 100	40.51	231.68	233.18		233.49	0.017302	3.38	23.74	24.19	0.89
unico	195.881*	AVE 500	65.91	231.68	233.66		234.01	0.014605	3.75	36.53	28.91	0.86
unico	190.884*	MCO	3.89	231.45	231.88	231.88	232.04	0.037668	2.02	2.85	10.23	1.05
unico	190.884*	AVE 10	14.70	231.45	232.32	232.32	232.61	0.027527	2.92	8.78	15.84	1.03
unico	190.884*	AVE 50	31.01	231.45	232.79	232.72	233.14	0.020920	3.42	17.11	20.17	0.96

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	190.884*	AVE 100	40.51	231.45	233.01	232.90	233.39	0.019056	3.63	21.74	22.25	0.94
unico	190.884*	AVE 500	65.91	231.45	233.50		233.93	0.015890	4.00	33.91	26.88	0.90
unico	185.887*	MCO	3.89	231.23	231.76	231.67	231.86	0.017590	1.61	3.56	10.06	0.75
unico	185.887*	AVE 10	14.70	231.23	232.25	232.14	232.48	0.017329	2.58	9.79	15.16	0.84
unico	185.887*	AVE 50	31.01	231.23	232.70		233.04	0.017101	3.30	17.60	19.46	0.88
unico	185.887*	AVE 100	40.51	231.23	232.90		233.30	0.017008	3.60	21.71	21.30	0.90
unico	185.887*	AVE 500	65.91	231.23	233.36	233.20	233.84	0.016315	4.15	32.25	25.20	0.92
unico	180.8905	MCO	3.89	231.00	231.76		231.80	0.004502	1.06	5.64	11.09	0.40
unico	180.8905	AVE 10	14.70	231.00	232.25		232.40	0.008825	2.10	12.06	15.40	0.62
unico	180.8905	AVE 50	31.01	231.00	232.67		232.96	0.011683	2.97	19.46	19.22	0.75
unico	180.8905	AVE 100	40.51	231.00	232.86		233.21	0.012738	3.34	23.25	20.90	0.79
unico	180.8905	AVE 500	65.91	231.00	233.29		233.76	0.014021	4.03	32.90	24.36	0.86
unico	176.976*	MCO	3.89	231.05	231.74		231.78	0.006104	1.13	5.36	11.40	0.46
unico	176.976*	AVE 10	14.70	231.05	232.20		232.36	0.011005	2.20	11.53	15.41	0.68
unico	176.976*	AVE 50	31.01	231.05	232.61		232.91	0.014113	3.09	18.62	19.16	0.81
unico	176.976*	AVE 100	40.51	231.05	232.79		233.16	0.015084	3.46	22.32	20.71	0.85
unico	176.976*	AVE 500	65.91	231.05	233.21		233.70	0.016292	4.16	31.60	24.04	0.92
unico	173.061*	MCO	3.89	231.10	231.70		231.75	0.008812	1.21	5.00	11.66	0.54
unico	173.061*	AVE 10	14.70	231.10	232.13		232.31	0.014580	2.33	10.81	15.45	0.76
unico	173.061*	AVE 50	31.01	231.10	232.53		232.85	0.017751	3.24	17.61	19.01	0.89
unico	173.061*	AVE 100	40.51	231.10	232.70		233.09	0.018809	3.62	21.09	20.49	0.94
unico	173.061*	AVE 500	65.91	231.10	233.09	232.98	233.63	0.020679	4.41	29.56	23.81	1.02
unico	169.147*	MCO	3.89	231.15	231.66		231.71	0.013953	1.30	4.55	11.96	0.65
unico	169.147*	AVE 10	14.70	231.15	232.06		232.24	0.019688	2.45	10.18	15.71	0.86
unico	169.147*	AVE 50	31.01	231.15	232.42	232.31	232.76	0.024044	3.44	16.37	19.01	1.02
unico	169.147*	AVE 100	40.51	231.15	232.54	232.50	233.00	0.028014	3.98	18.87	20.17	1.11
unico	169.147*	AVE 500	65.91	231.15	232.91	232.91	233.53	0.028731	4.77	26.96	23.49	1.18
unico	165.2326	MCO	3.89	231.21	231.54	231.46	231.62	0.045870	1.58	3.28	12.25	1.06
unico	165.2326	AVE 10	14.70	231.21	231.85	231.85	232.12	0.053324	3.05	7.79	15.70	1.33
unico	165.2326	AVE 50	31.01	231.21	232.21	232.21	232.63	0.044868	3.93	13.87	18.62	1.33
unico	165.2326	AVE 100	40.51	231.21	232.39	232.39	232.87	0.040012	4.21	17.52	20.39	1.29
unico	165.2326	AVE 500	65.91	231.21	232.72	232.79	233.39	0.041820	5.12	24.59	23.39	1.38
unico	160.377*	MCO	3.89	230.81	231.20	231.20	231.35	0.066688	2.08	2.68	10.72	1.31
unico	160.377*	AVE 10	14.70	230.81	231.60	231.60	231.89	0.041385	3.08	8.12	15.51	1.21
unico	160.377*	AVE 50	31.01	230.81	231.94	231.99	232.41	0.042190	4.08	13.79	18.56	1.31
unico	160.377*	AVE 100	40.51	230.81	232.08	232.17	232.66	0.043619	4.55	16.57	19.86	1.36
unico	160.377*	AVE 500	65.91	230.81	232.44	232.57	233.18	0.041532	5.32	24.17	22.99	1.39
unico	155.523*	MCO	3.89	230.41	230.92	230.92	231.08	0.046549	2.09	2.74	10.02	1.15
unico	155.523*	AVE 10	14.70	230.41	231.28	231.36	231.67	0.047318	3.43	7.33	14.64	1.31
unico	155.523*	AVE 50	31.01	230.41	231.65	231.76	232.20	0.042924	4.31	13.27	18.00	1.33
unico	155.523*	AVE 100	40.51	230.41	231.81	231.94	232.44	0.042592	4.71	16.26	19.42	1.36
unico	155.523*	AVE 500	65.91	230.41	232.16	232.33	232.98	0.040908	5.48	23.79	22.51	1.39
unico	150.6685	MCO	3.89	230.02	230.55	230.60	230.80	0.071437	2.52	2.12	7.78	1.41
unico	150.6685	AVE 10	14.70	230.02	230.99	231.10	231.44	0.045853	3.59	7.02	14.17	1.30
unico	150.6685	AVE 50	31.01	230.02	231.36	231.51	231.99	0.042329	4.48	12.90	17.42	1.34
unico	150.6685	AVE 100	40.51	230.02	231.53	231.70	232.23	0.041521	4.86	15.94	18.85	1.35
unico	150.6685	AVE 500	65.91	230.02	231.90	232.11	232.77	0.039721	5.62	23.54	22.01	1.38
unico	145.901*	MCO	3.89	229.65	230.14	230.22	230.42	0.085000	2.64	1.98	7.55	1.52
unico	145.901*	AVE 10	14.70	229.65	230.51	230.72	231.14	0.074290	4.17	5.73	12.92	1.62
unico	145.901*	AVE 50	31.01	229.65	230.86	231.12	231.71	0.065044	5.14	10.90	16.62	1.63
unico	145.901*	AVE 100	40.51	229.65	231.01	231.31	231.97	0.062471	5.54	13.60	17.97	1.63
unico	145.901*	AVE 500	65.91	229.65	231.36	231.72	232.52	0.058059	6.34	20.31	20.95	1.64
unico	141.134*	MCO	3.89	229.28	229.76	229.83	230.03	0.079758	2.56	2.03	7.71	1.47
unico	141.134*	AVE 10	14.70	229.28	230.11	230.33	230.77	0.079996	4.24	5.51	12.63	1.67
unico	141.134*	AVE 50	31.01	229.28	230.43	230.73	231.38	0.073340	5.31	10.38	16.62	1.71
unico	141.134*	AVE 100	40.51	229.28	230.58	230.91	231.64	0.071331	5.75	12.91	17.95	1.73
unico	141.134*	AVE 500	65.91	229.28	230.90	231.31	232.21	0.067687	6.62	19.15	20.81	1.76
unico	136.367*	MCO	3.89	228.91	229.39	229.45	229.65	0.080664	2.55	2.02	7.77	1.48
unico	136.367*	AVE 10	14.70	228.91	229.73	229.94	230.39	0.080492	4.21	5.49	12.60	1.67
unico	136.367*	AVE 50	31.01	228.91	230.04	230.35	231.01	0.077321	5.36	10.19	16.90	1.75
unico	136.367*	AVE 100	40.51	228.91	230.18	230.52	231.28	0.076397	5.83	12.62	18.22	1.78
unico	136.367*	AVE 500	65.91	228.91	230.48	230.92	231.86	0.073710	6.76	18.65	21.11	1.82
unico	131.600*	MCO	3.89	228.54	229.00	229.07	229.26	0.080571	2.52	2.03	7.89	1.47
unico	131.600*	AVE 10	14.70	228.54	229.34	229.56	230.00	0.081745	4.18	5.42	12.42	1.68
unico	131.600*	AVE 50	31.01	228.54	229.64	229.96	230.64	0.079798	5.38	10.09	17.40	1.77
unico	131.600*	AVE 100	40.51	228.54	229.77	230.13	230.91	0.079219	5.86	12.52	18.86	1.81
unico	131.600*	AVE 500	65.91	228.54	230.07	230.50	231.49	0.078119	6.83	18.44	21.89	1.87
unico	126.8340	MCO	3.89	228.17	228.62	228.69	228.88	0.080612	2.49	2.04	7.94	1.47
unico	126.8340	AVE 10	14.70	228.17	228.96	229.18	229.61	0.081002	4.14	5.41	12.43	1.67

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	126.8340	AVE 50	31.01	228.17	229.25	229.58	230.25	0.080565	5.35	10.15	18.47	1.78
unico	126.8340	AVE 100	40.51	228.17	229.38	229.75	230.52	0.080943	5.85	12.61	20.23	1.82
unico	126.8340	AVE 500	65.91	228.17	229.65	230.14	231.10	0.082194	6.87	18.61	23.98	1.91
unico	122.728*	MCO	3.89	227.89	228.31	228.38	228.56	0.074408	2.45	2.13	8.81	1.42
unico	122.728*	AVE 10	14.70	227.89	228.62	228.83	229.27	0.083524	4.16	5.49	12.81	1.69
unico	122.728*	AVE 50	31.01	227.89	228.93	229.25	229.92	0.081506	5.36	10.18	18.51	1.79
unico	122.728*	AVE 100	40.51	227.89	229.05	229.41	230.19	0.082031	5.86	12.61	20.22	1.83
unico	122.728*	AVE 500	65.91	227.89	229.32	229.78	230.76	0.083010	6.87	18.52	23.74	1.92
unico	118.622*	MCO	3.89	227.60	227.99	228.06	228.24	0.079589	2.50	2.16	9.55	1.47
unico	118.622*	AVE 10	14.70	227.60	228.29	228.50	228.92	0.084991	4.13	5.66	13.52	1.71
unico	118.622*	AVE 50	31.01	227.60	228.57	228.89	229.57	0.088538	5.43	9.99	17.82	1.85
unico	118.622*	AVE 100	40.51	227.60	228.70	229.06	229.84	0.087349	5.91	12.39	19.64	1.88
unico	118.622*	AVE 500	65.91	227.60	228.97	229.43	230.41	0.086514	6.90	18.21	23.10	1.95
unico	114.5166	MCO	3.89	227.32	227.78	227.74	227.89	0.024719	1.70	3.50	12.00	0.86
unico	114.5166	AVE 10	14.70	227.32	227.96	228.14	228.56	0.088772	4.12	5.85	14.49	1.73
unico	114.5166	AVE 50	31.01	227.32	228.21	228.52	229.19	0.095080	5.44	9.94	17.52	1.91
unico	114.5166	AVE 100	40.51	227.32	228.33	228.69	229.46	0.094567	5.95	12.17	18.93	1.95
unico	114.5166	AVE 500	65.91	227.32	228.61	229.08	230.05	0.091786	6.94	17.81	22.15	2.00
unico	109.523*	MCO	3.89	227.23	227.66	227.61	227.76	0.026939	1.72	3.69	13.09	0.89
unico	109.523*	AVE 10	14.70	227.23	228.00	228.00	228.26	0.032258	2.90	9.22	18.51	1.09
unico	109.523*	AVE 50	31.01	227.23	228.27	228.35	228.73	0.041865	4.06	14.46	21.24	1.30
unico	109.523*	AVE 100	40.51	227.23	228.36	228.50	228.97	0.049487	4.70	16.55	22.24	1.44
unico	109.523*	AVE 500	65.91	227.23	228.59	228.86	229.52	0.061888	5.96	21.85	24.59	1.66
unico	104.530*	MCO	3.89	227.14	227.51	227.48	227.61	0.033178	1.77	3.83	15.41	0.97
unico	104.530*	AVE 10	14.70	227.14	227.78	227.81	228.06	0.050071	3.21	8.51	18.80	1.31
unico	104.530*	AVE 50	31.01	227.14	228.10	228.13	228.50	0.043431	3.97	15.08	21.85	1.31
unico	104.530*	AVE 100	40.51	227.14	228.28	228.29	228.70	0.037946	4.17	19.13	23.54	1.26
unico	104.530*	AVE 500	65.91	227.14	228.65	228.63	229.16	0.033639	4.75	28.30	26.82	1.25
unico	99.53709	MCO	3.89	227.05	227.31	227.28	227.39	0.053681	1.82	3.72	16.50	1.17
unico	99.53709	AVE 10	14.70	227.05	227.65	227.58	227.83	0.037747	2.74	9.94	19.60	1.14
unico	99.53709	AVE 50	31.01	227.05	228.02	227.89	228.28	0.030491	3.39	17.76	22.92	1.11
unico	99.53709	AVE 100	40.51	227.05	228.20	228.04	228.49	0.028002	3.65	22.02	24.51	1.09
unico	99.53709	AVE 500	65.91	227.05	228.63	228.38	228.97	0.023198	4.10	33.20	28.23	1.05
unico	95.2228*	MCO	3.89	226.70	227.08	227.08	227.20	0.037626	1.94	3.58	15.06	1.04
unico	95.2228*	AVE 10	14.70	226.70	227.41	227.41	227.66	0.038086	3.03	9.02	17.83	1.17
unico	95.2228*	AVE 50	31.01	226.70	227.74	227.74	228.12	0.036229	3.85	15.48	20.56	1.22
unico	95.2228*	AVE 100	40.51	226.70	227.90	227.90	228.34	0.035823	4.21	18.78	21.80	1.24
unico	95.2228*	AVE 500	65.91	226.70	228.25	228.25	228.83	0.034547	4.93	27.03	24.79	1.27
unico	90.9086*	MCO	3.89	226.35	226.69	226.77	226.95	0.086645	2.61	2.29	10.70	1.53
unico	90.9086*	AVE 10	14.70	226.35	227.09	227.17	227.46	0.048343	3.43	7.54	15.82	1.32
unico	90.9086*	AVE 50	31.01	226.35	227.46	227.53	227.95	0.039818	4.14	13.91	18.77	1.28
unico	90.9086*	AVE 100	40.51	226.35	227.64	227.71	228.18	0.036214	4.39	17.50	20.25	1.26
unico	90.9086*	AVE 500	65.91	226.35	228.05	228.09	228.68	0.031084	4.93	26.53	23.58	1.22
unico	86.59440	MCO	3.89	226.00	226.51	226.44	226.60	0.019241	1.59	3.75	11.28	0.77
unico	86.59440	AVE 10	14.70	226.00	226.91	226.85	227.16	0.024822	2.78	8.92	14.79	0.97
unico	86.59440	AVE 50	31.01	226.00	227.26	227.26	227.70	0.028517	3.77	14.69	17.79	1.11
unico	86.59440	AVE 100	40.51	226.00	227.29	227.45	227.99	0.043994	4.77	15.25	18.05	1.38
unico	86.59440	AVE 500	65.91	226.00	227.71	227.87	228.52	0.037119	5.33	23.46	21.48	1.33
unico	82.6006*	MCO	3.89	225.98	226.44	226.52	226.52	0.021018	1.55	3.83	11.84	0.79
unico	82.6006*	AVE 10	14.70	225.98	226.81	226.75	227.05	0.028032	2.79	8.88	15.52	1.02
unico	82.6006*	AVE 50	31.01	225.98	227.16	227.16	227.58	0.030321	3.74	14.98	19.01	1.13
unico	82.6006*	AVE 100	40.51	225.98	227.31	227.34	227.81	0.031890	4.17	17.91	20.28	1.18
unico	82.6006*	AVE 500	65.91	225.98	227.70	227.73	228.33	0.029437	4.79	26.53	23.58	1.19
unico	78.6068*	MCO	3.89	225.96	226.36	226.43	226.43	0.022637	1.48	3.96	12.76	0.80
unico	78.6068*	AVE 10	14.70	225.96	226.71	226.64	226.93	0.029270	2.69	9.16	16.48	1.03
unico	78.6068*	AVE 50	31.01	225.96	226.98	227.02	227.43	0.040226	3.93	14.01	19.14	1.27
unico	78.6068*	AVE 100	40.51	225.96	227.14	227.20	227.67	0.039886	4.32	17.09	20.64	1.30
unico	78.6068*	AVE 500	65.91	225.96	227.46	227.59	228.19	0.040401	5.15	24.34	23.60	1.36
unico	74.6130*	MCO	3.89	225.93	226.27	226.33	226.33	0.024136	1.38	4.17	14.32	0.81
unico	74.6130*	AVE 10	14.70	225.93	226.62	226.52	226.81	0.028645	2.53	9.73	17.64	1.00
unico	74.6130*	AVE 50	31.01	225.93	226.89	226.87	227.27	0.037709	3.67	14.86	19.97	1.22
unico	74.6130*	AVE 100	40.51	225.93	227.02	227.04	227.50	0.040490	4.15	17.54	21.19	1.29
unico	74.6130*	AVE 500	65.91	225.93	227.33	227.43	228.01	0.043063	5.07	24.46	24.16	1.39
unico	70.61932	MCO	3.89	225.91	226.11	226.07	226.19	0.058394	1.50	3.36	14.90	1.15
unico	70.61932	AVE 10	14.70	225.91	226.38	226.38	226.63	0.063840	2.96	7.83	17.50	1.41
unico	70.61932	AVE 50	31.01	225.91	226.71	226.71	227.10	0.049323	3.76	14.08	20.23	1.36
unico	70.61932	AVE 100	40.51	225.91	226.86	226.87	227.32	0.047688	4.15	17.09	21.36	1.38
unico	70.61932	AVE 500	65.91	225.91	227.19	227.24	227.81	0.045074	4.94	24.62	24.41	1.41
unico	66.3659*	MCO	3.89	225.53	225.76	225.76	225.89	0.082925	2.01	2.71	12.01	1.41

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	66.3659*	AVE 10	14.70	225.53	226.11	226.12	226.40	0.049886	3.05	7.80	15.87	1.30
unico	66.3659*	AVE 50	31.01	225.53	226.46	226.49	226.90	0.043095	3.89	13.81	19.07	1.30
unico	66.3659*	AVE 100	40.51	225.53	226.62	226.66	227.13	0.040952	4.23	16.99	20.37	1.31
unico	66.3659*	AVE 500	65.91	225.53	226.99	227.04	227.64	0.036691	4.89	25.21	23.68	1.30
unico	62.1124*	MCO	3.89	225.15	225.44	225.45	225.59	0.061550	2.06	2.76	11.09	1.27
unico	62.1124*	AVE 10	14.70	225.15	225.76	225.84	226.15	0.061857	3.47	6.77	14.15	1.45
unico	62.1124*	AVE 50	31.01	225.15	226.10	226.22	226.69	0.051567	4.33	12.15	16.77	1.43
unico	62.1124*	AVE 100	40.51	225.15	226.29	226.42	226.93	0.045865	4.60	15.40	18.50	1.39
unico	62.1124*	AVE 500	65.91	225.15	226.68	226.82	227.47	0.039036	5.20	23.46	21.97	1.35
unico	57.8590*	MCO	3.89	224.77	225.08	225.13	225.29	0.076509	2.36	2.40	10.20	1.43
unico	57.8590*	AVE 10	14.70	224.77	225.42	225.54	225.88	0.062525	3.64	6.41	13.12	1.47
unico	57.8590*	AVE 50	31.01	224.77	225.77	225.94	226.45	0.054226	4.56	11.40	15.55	1.48
unico	57.8590*	AVE 100	40.51	224.77	225.94	226.12	226.72	0.051164	4.93	14.09	16.57	1.47
unico	57.8590*	AVE 500	65.91	224.77	226.37	226.58	227.28	0.041692	5.50	21.85	20.12	1.40
unico	53.6056*	MCO	3.89	224.39	224.75	224.81	224.98	0.068723	2.39	2.33	9.75	1.37
unico	53.6056*	AVE 10	14.70	224.39	225.10	225.24	225.61	0.063227	3.77	6.11	12.36	1.49
unico	53.6056*	AVE 50	31.01	224.39	225.45	225.65	226.21	0.056617	4.75	10.82	14.59	1.52
unico	53.6056*	AVE 100	40.51	224.39	225.62	225.86	226.49	0.053380	5.13	13.41	15.62	1.51
unico	53.6056*	AVE 500	65.91	224.39	226.01	226.30	227.08	0.047057	5.84	20.02	17.86	1.49
unico	49.35223	MCO	3.89	224.02	224.41	224.49	224.68	0.074075	2.51	2.15	9.30	1.43
unico	49.35223	AVE 10	14.70	224.02	224.76	224.92	225.33	0.066009	3.90	5.81	11.68	1.53
unico	49.35223	AVE 50	31.01	224.02	225.12	225.36	225.96	0.059464	4.93	10.35	13.89	1.56
unico	49.35223	AVE 100	40.51	224.02	225.29	225.56	226.25	0.056165	5.32	12.83	14.87	1.56
unico	49.35223	AVE 500	65.91	224.02	225.68	226.00	226.87	0.049874	6.07	19.14	16.99	1.54
unico	44.7436*	MCO	3.89	223.45	223.86	223.98	224.26	0.105796	2.93	1.59	6.58	1.70
unico	44.7436*	AVE 10	14.70	223.45	224.27	224.50	225.01	0.068890	4.18	4.97	9.77	1.58
unico	44.7436*	AVE 50	31.01	223.45	224.68	224.98	225.68	0.055535	5.08	9.41	11.85	1.53
unico	44.7436*	AVE 100	40.51	223.45	224.88	225.22	225.99	0.050532	5.41	11.94	13.00	1.50
unico	44.7436*	AVE 500	65.91	223.45	225.35	225.72	226.64	0.042501	6.06	18.59	15.61	1.45
unico	40.1349*	MCO	3.89	222.88	223.33	223.46	223.76	0.108575	2.98	1.49	6.06	1.72
unico	40.1349*	AVE 10	14.70	222.88	223.71	223.99	224.63	0.086938	4.56	4.25	8.26	1.76
unico	40.1349*	AVE 50	31.01	222.88	224.14	224.52	225.38	0.065965	5.48	8.20	10.27	1.66
unico	40.1349*	AVE 100	40.51	222.88	224.35	224.78	225.71	0.059443	5.83	10.42	11.16	1.62
unico	40.1349*	AVE 500	65.91	222.88	224.84	225.32	226.41	0.047542	6.44	16.46	13.26	1.53
unico	35.52638	MCO	3.89	222.31	222.82	222.95	223.26	0.111069	2.99	1.43	5.62	1.73
unico	35.52638	AVE 10	14.70	222.31	223.18	223.49	224.20	0.097425	4.73	3.96	7.75	1.84
unico	35.52638	AVE 50	31.01	222.31	223.59	224.04	225.03	0.078193	5.81	7.39	9.18	1.79
unico	35.52638	AVE 100	40.51	222.31	223.80	224.29	225.39	0.070035	6.18	9.38	9.95	1.74
unico	35.52638	AVE 500	65.91	222.31	224.29	224.88	226.15	0.055435	6.84	14.80	11.82	1.63
unico	30.8647*	MCO	3.89	221.54	222.12	222.30	222.66	0.141542	3.27	1.19	3.93	1.90
unico	30.8647*	AVE 10	14.70	221.54	222.49	222.85	223.66	0.129496	4.84	3.25	7.24	2.03
unico	30.8647*	AVE 50	31.01	221.54	222.84	223.36	224.57	0.107740	6.03	6.16	9.18	2.00
unico	30.8647*	AVE 100	40.51	221.54	223.01	223.60	224.97	0.099507	6.49	7.79	9.88	1.98
unico	30.8647*	AVE 500	65.91	221.54	223.41	224.14	225.78	0.083210	7.31	12.11	11.57	1.90
unico	26.2030*	MCO	3.89	220.77	221.37	221.57	221.98	0.150818	3.44	1.13	3.53	1.94
unico	26.2030*	AVE 10	14.70	220.77	221.78	222.15	222.99	0.161854	4.87	3.02	5.90	2.17
unico	26.2030*	AVE 50	31.01	220.77	222.11	222.66	223.99	0.140115	6.11	5.34	8.43	2.17
unico	26.2030*	AVE 100	40.51	220.77	222.26	222.90	224.42	0.128506	6.59	6.75	9.53	2.14
unico	26.2030*	AVE 500	65.91	220.77	222.62	223.43	225.30	0.108645	7.49	10.51	11.33	2.08
unico	21.54136	MCO	3.89	220.00	220.62	220.82	221.26	0.156560	3.53	1.10	3.34	1.96
unico	21.54136	AVE 10	14.70	220.00	221.06	221.43	222.26	0.150640	4.86	3.03	5.47	2.08
unico	21.54136	AVE 50	31.01	220.00	221.39	221.94	223.27	0.166811	6.09	5.10	7.43	2.29
unico	21.54136	AVE 100	40.51	220.00	221.53	222.18	223.75	0.160051	6.61	6.23	8.40	2.30
unico	21.54136	AVE 500	65.91	220.00	221.86	222.70	224.72	0.136190	7.56	9.39	10.50	2.23

RESULTADOS MODELIZACIÓN 3

HEC-RAS Plan: Plan 02 River: zamans Reach: unico

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1408.291	MCO	3.89	252.02	252.68	252.34	252.69	0.002070	0.68	11.58	21.88	0.27
unico	1408.291	AVE 10	14.70	252.02	253.15	252.58	253.18	0.004004	1.36	22.04	23.99	0.41
unico	1408.291	AVE 50	31.01	252.02	253.55	252.84	253.62	0.005779	2.00	32.52	28.28	0.52
unico	1408.291	AVE 100	40.51	252.02	253.75	252.97	253.84	0.006215	2.26	38.34	30.52	0.55
unico	1408.291	AVE 500	65.91	252.02	254.18	253.29	254.31	0.006931	2.77	52.50	35.06	0.60
unico	1404.70*	MCO	3.89	252.02	252.66		252.68	0.004130	0.95	8.12	16.89	0.38
unico	1404.70*	AVE 10	14.70	252.02	253.08		253.16	0.008942	1.96	16.26	22.67	0.61
unico	1404.70*	AVE 50	31.01	252.02	253.44		253.59	0.012000	2.76	25.79	29.32	0.74
unico	1404.70*	AVE 100	40.51	252.02	253.64		253.80	0.011177	2.92	32.09	32.00	0.73
unico	1404.70*	AVE 500	65.91	252.02	254.09		254.27	0.010014	3.25	47.77	37.98	0.72
unico	1401.119	MCO	3.89	252.01	252.64		252.67	0.004202	0.95	7.72	15.15	0.38
unico	1401.119	AVE 10	14.70	252.01	253.02		253.12	0.011041	2.11	14.05	18.71	0.67
unico	1401.119	AVE 50	31.01	252.01	253.24	253.00	253.51	0.024297	3.57	18.58	22.76	1.03
unico	1401.119	AVE 100	40.51	252.01	253.29	253.25	253.71	0.035684	4.44	19.72	23.69	1.26
unico	1401.119	AVE 500	65.91	252.01	253.66	253.66	254.18	0.033964	5.13	29.84	31.16	1.28
unico	1398.42*	MCO	3.89	252.01	252.64		252.65	0.003315	0.83	9.89	23.49	0.34
unico	1398.42*	AVE 10	14.70	252.01	253.03		253.08	0.006594	1.63	20.75	32.76	0.52
unico	1398.42*	AVE 50	31.01	252.01	253.32		253.42	0.010562	2.43	31.53	43.05	0.68
unico	1398.42*	AVE 100	40.51	252.01	253.44		253.57	0.012029	2.76	37.16	47.58	0.74
unico	1398.42*	AVE 500	65.91	252.01	253.69	253.39	253.87	0.014105	3.34	50.17	53.72	0.83
unico	1395.729	MCO	3.89	252.02	252.62		252.64	0.004127	0.89	9.75	28.56	0.37
unico	1395.729	AVE 10	14.70	252.02	253.00		253.06	0.008025	1.74	24.24	62.14	0.57
unico	1395.729	AVE 50	31.01	252.02	253.33		253.38	0.006002	1.83	45.45	67.26	0.52
unico	1395.729	AVE 100	40.51	252.02	253.47		253.53	0.005847	1.93	54.89	69.40	0.52
unico	1395.729	AVE 500	65.91	252.02	253.74		253.81	0.006251	2.25	74.59	74.50	0.55
unico	1391.99*	MCO	3.89	252.02	252.61		252.63	0.003775	0.84	10.22	29.30	0.36
unico	1391.99*	AVE 10	14.70	252.02	252.98		253.03	0.007933	1.70	23.73	56.80	0.56
unico	1391.99*	AVE 50	31.01	252.02	253.31		253.36	0.006119	1.83	45.83	69.74	0.52
unico	1391.99*	AVE 100	40.51	252.02	253.45		253.50	0.005858	1.92	55.73	72.05	0.52
unico	1391.99*	AVE 500	65.91	252.02	253.72		253.79	0.006234	2.23	76.32	78.23	0.55
unico	1388.267	MCO	3.89	252.02	252.60		252.61	0.003382	0.79	10.87	30.66	0.34
unico	1388.267	AVE 10	14.70	252.02	252.96		253.00	0.006880	1.56	24.03	50.26	0.52
unico	1388.267	AVE 50	31.01	252.02	253.29		253.34	0.006197	1.82	46.68	73.81	0.52
unico	1388.267	AVE 100	40.51	252.02	253.43		253.48	0.005771	1.89	57.34	76.21	0.51
unico	1388.267	AVE 500	65.91	252.02	253.70		253.77	0.005914	2.16	78.84	80.84	0.53
unico	1385.20*	MCO	3.89	252.02	252.59		252.60	0.003049	0.74	11.45	31.53	0.32
unico	1385.20*	AVE 10	14.70	252.02	252.94		252.98	0.005726	1.42	24.71	44.75	0.48
unico	1385.20*	AVE 50	31.01	252.02	253.26		253.32	0.006957	1.91	44.57	72.37	0.55
unico	1385.20*	AVE 100	40.51	252.02	253.40		253.46	0.006782	2.03	55.26	79.54	0.55
unico	1385.20*	AVE 500	65.91	252.02	253.68		253.75	0.006462	2.24	78.22	84.76	0.56
unico	1382.151	MCO	3.89	252.02	252.58		252.59	0.002614	0.69	12.31	32.64	0.30
unico	1382.151	AVE 10	14.70	252.02	252.93		252.96	0.005191	1.34	25.71	44.99	0.45
unico	1382.151	AVE 50	31.01	252.02	253.24		253.29	0.006591	1.84	44.87	69.69	0.53
unico	1382.151	AVE 100	40.51	252.02	253.38		253.44	0.006523	1.97	55.05	75.65	0.54
unico	1382.151	AVE 500	65.91	252.02	253.66		253.73	0.006967	2.30	77.22	86.93	0.58
unico	1377.20*	MCO	3.89	252.07	252.57		252.58	0.003801	0.76	11.21	34.46	0.35
unico	1377.20*	AVE 10	14.70	252.07	252.90		252.93	0.006288	1.38	24.58	45.97	0.49
unico	1377.20*	AVE 50	31.01	252.07	253.20		253.26	0.007904	1.91	41.25	64.30	0.58
unico	1377.20*	AVE 100	40.51	252.07	253.34		253.40	0.007844	2.06	50.59	70.03	0.59
unico	1377.20*	AVE 500	65.91	252.07	253.61		253.69	0.008505	2.44	70.55	80.37	0.63
unico	1372.258	MCO	3.89	252.12	252.55		252.56	0.004936	0.77	10.52	36.22	0.39
unico	1372.258	AVE 10	14.70	252.12	252.87		252.90	0.007204	1.37	23.84	46.61	0.51
unico	1372.258	AVE 50	31.01	252.12	253.16		253.22	0.008413	1.86	39.23	58.00	0.59
unico	1372.258	AVE 100	40.51	252.12	253.30		253.36	0.008745	2.06	47.46	63.91	0.61
unico	1372.258	AVE 500	65.91	252.12	253.55		253.64	0.010079	2.52	65.06	74.23	0.68
unico	1368.61*	MCO	3.89	252.13	252.52		252.54	0.005763	0.79	10.02	35.97	0.41
unico	1368.61*	AVE 10	14.70	252.13	252.84		252.87	0.008303	1.42	22.61	45.20	0.55
unico	1368.61*	AVE 50	31.01	252.13	253.12		253.18	0.009848	1.95	37.42	58.48	0.63
unico	1368.61*	AVE 100	40.51	252.13	253.26		253.33	0.010090	2.15	45.70	65.40	0.65
unico	1368.61*	AVE 500	65.91	252.13	253.51		253.60	0.011194	2.59	63.45	75.83	0.71
unico	1364.96*	MCO	3.89	252.13	252.50		252.51	0.007095	0.82	9.40	36.12	0.45
unico	1364.96*	AVE 10	14.70	252.13	252.80		252.84	0.009692	1.46	21.42	44.10	0.58
unico	1364.96*	AVE 50	31.01	252.13	253.08		253.14	0.011820	2.05	35.12	57.56	0.68
unico	1364.96*	AVE 100	40.51	252.13	253.21		253.29	0.012286	2.29	43.19	67.02	0.71
unico	1364.96*	AVE 500	65.91	252.13	253.46		253.56	0.012793	2.69	61.21	77.24	0.75
unico	1361.324	MCO	3.89	252.14	252.47		252.48	0.009790	0.89	8.47	36.20	0.52
unico	1361.324	AVE 10	14.70	252.14	252.76		252.80	0.012048	1.54	19.99	43.57	0.64
unico	1361.324	AVE 50	31.01	252.14	253.02		253.10	0.013817	2.12	32.61	52.87	0.73
unico	1361.324	AVE 100	40.51	252.14	253.14		253.23	0.016287	2.50	39.29	66.87	0.81
unico	1361.324	AVE 500	65.91	252.14	253.39		253.50	0.015463	2.84	57.82	78.21	0.82

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1356.78*	MCO	3.89	252.12	252.42		252.44	0.010214	0.88	8.57	37.13	0.52
unico	1356.78*	AVE 10	14.70	252.12	252.70		252.74	0.012733	1.54	19.92	44.82	0.65
unico	1356.78*	AVE 50	31.01	252.12	252.95		253.03	0.015418	2.17	32.83	59.82	0.77
unico	1356.78*	AVE 100	40.51	252.12	253.07		253.16	0.015863	2.40	40.18	67.75	0.79
unico	1356.78*	AVE 500	65.91	252.12	253.33		253.43	0.014517	2.71	59.06	77.21	0.79
unico	1352.24*	MCO	3.89	252.09	252.38		252.39	0.010989	0.88	8.58	38.23	0.54
unico	1352.24*	AVE 10	14.70	252.09	252.64		252.68	0.014307	1.57	19.70	47.88	0.69
unico	1352.24*	AVE 50	31.01	252.09	252.89		252.96	0.015619	2.12	33.50	62.95	0.77
unico	1352.24*	AVE 100	40.51	252.09	253.00		253.08	0.015083	2.29	41.22	67.88	0.77
unico	1352.24*	AVE 500	65.91	252.09	253.27		253.37	0.013468	2.57	60.55	76.51	0.76
unico	1347.70*	MCO	3.89	252.06	252.32		252.34	0.012902	0.90	8.38	39.98	0.58
unico	1347.70*	AVE 10	14.70	252.06	252.57		252.61	0.015772	1.58	19.79	51.96	0.71
unico	1347.70*	AVE 50	31.01	252.06	252.82		252.89	0.015066	2.03	34.42	64.17	0.75
unico	1347.70*	AVE 100	40.51	252.06	252.95		253.02	0.014023	2.16	42.49	67.91	0.74
unico	1347.70*	AVE 500	65.91	252.06	253.22		253.31	0.012329	2.44	62.33	75.99	0.73
unico	1343.168	MCO	3.89	252.03	252.23		252.26	0.027421	1.10	6.82	42.31	0.80
unico	1343.168	AVE 10	14.70	252.03	252.50		252.54	0.016862	1.54	19.85	53.65	0.73
unico	1343.168	AVE 50	31.01	252.03	252.76		252.82	0.013981	1.90	35.58	64.43	0.71
unico	1343.168	AVE 100	40.51	252.03	252.89		252.95	0.012751	2.03	44.04	67.95	0.70
unico	1343.168	AVE 500	65.91	252.03	253.17		253.25	0.011152	2.29	64.37	75.63	0.69
unico	1338.58*	MCO	3.89	251.85	252.07	252.00	252.11	0.037898	1.34	4.94	25.45	0.95
unico	1338.58*	AVE 10	14.70	251.85	252.36		252.44	0.025984	2.02	15.36	44.11	0.92
unico	1338.58*	AVE 50	31.01	251.85	252.65		252.74	0.018898	2.34	30.00	56.94	0.84
unico	1338.58*	AVE 100	40.51	251.85	252.78		252.88	0.017494	2.49	37.91	63.92	0.83
unico	1338.58*	AVE 500	65.91	251.85	253.09		253.19	0.013568	2.66	59.38	75.10	0.77
unico	1333.99*	MCO	3.89	251.66	251.87	251.80	251.92	0.046524	1.39	4.28	20.36	1.04
unico	1333.99*	AVE 10	14.70	251.66	252.21	252.06	252.31	0.029909	2.24	13.30	34.74	0.99
unico	1333.99*	AVE 50	31.01	251.66	252.51		252.64	0.023081	2.67	25.83	47.85	0.94
unico	1333.99*	AVE 100	40.51	251.66	252.65		252.79	0.020845	2.81	32.88	53.38	0.92
unico	1333.99*	AVE 500	65.91	251.66	252.96		253.11	0.018073	3.15	51.50	69.74	0.89
unico	1329.412	MCO	3.89	251.48	251.72		251.76	0.027180	1.17	4.93	18.96	0.81
unico	1329.412	AVE 10	14.70	251.48	252.10		252.19	0.022991	2.12	13.91	31.40	0.88
unico	1329.412	AVE 50	31.01	251.48	252.41		252.54	0.020858	2.68	25.37	42.61	0.90
unico	1329.412	AVE 100	40.51	251.48	252.54		252.70	0.019966	2.88	31.53	47.09	0.91
unico	1329.412	AVE 500	65.91	251.48	252.84		253.03	0.019197	3.34	47.29	59.02	0.93
unico	1324.97*	MCO	3.89	251.25	251.70		251.71	0.004430	0.76	9.11	23.37	0.37
unico	1324.97*	AVE 10	14.70	251.25	252.07		252.12	0.007683	1.52	20.21	35.39	0.54
unico	1324.97*	AVE 50	31.01	251.25	252.38		252.47	0.010053	2.15	32.60	46.74	0.65
unico	1324.97*	AVE 100	40.51	251.25	252.51		252.62	0.010629	2.39	39.28	51.68	0.68
unico	1324.97*	AVE 500	65.91	251.25	252.81		252.95	0.011579	2.87	56.13	63.33	0.74
unico	1320.544	MCO	3.89	251.02	251.70		251.70	0.001064	0.50	15.54	30.82	0.20
unico	1320.544	AVE 10	14.70	251.02	252.07		252.10	0.002908	1.12	28.84	41.44	0.35
unico	1320.544	AVE 50	31.01	251.02	252.37		252.43	0.004541	1.65	42.92	51.02	0.45
unico	1320.544	AVE 100	40.51	251.02	252.51		252.57	0.005195	1.88	50.11	55.65	0.49
unico	1320.544	AVE 500	65.91	251.02	252.80		252.90	0.006304	2.34	67.87	65.42	0.56
unico	1317.15*	MCO	3.89	251.19	251.69		251.70	0.001976	0.54	13.28	30.88	0.25
unico	1317.15*	AVE 10	14.70	251.19	252.06		252.08	0.004139	1.14	26.46	41.19	0.40
unico	1317.15*	AVE 50	31.01	251.19	252.36		252.41	0.005877	1.67	40.37	51.19	0.50
unico	1317.15*	AVE 100	40.51	251.19	252.49		252.55	0.006502	1.89	47.48	55.71	0.54
unico	1317.15*	AVE 500	65.91	251.19	252.78		252.87	0.007502	2.33	65.05	66.01	0.60
unico	1313.77*	MCO	3.89	251.37	251.68		251.69	0.003991	0.51	10.98	30.59	0.32
unico	1313.77*	AVE 10	14.70	251.37	252.04		252.07	0.006251	1.15	23.92	41.80	0.47
unico	1313.77*	AVE 50	31.01	251.37	252.34		252.39	0.007725	1.65	37.67	51.09	0.55
unico	1313.77*	AVE 100	40.51	251.37	252.47		252.53	0.008209	1.86	44.67	55.21	0.58
unico	1313.77*	AVE 500	65.91	251.37	252.75		252.84	0.008998	2.30	61.88	65.29	0.63
unico	1310.385	MCO	3.89	251.54	251.66		251.67	0.008310	0.27	8.71	27.32	0.36
unico	1310.385	AVE 10	14.70	251.54	252.01		252.04	0.010042	1.06	21.13	41.59	0.55
unico	1310.385	AVE 50	31.01	251.54	252.31		252.36	0.010448	1.58	34.61	50.57	0.61
unico	1310.385	AVE 100	40.51	251.54	252.44		252.50	0.010654	1.79	41.49	54.53	0.64
unico	1310.385	AVE 500	65.91	251.54	252.72		252.81	0.010946	2.22	58.37	63.63	0.68
unico	1306.01*	MCO	3.89	251.47	251.62		251.63	0.009390	0.36	8.36	27.83	0.40
unico	1306.01*	AVE 10	14.70	251.47	251.96		252.00	0.010889	1.17	20.47	42.55	0.58
unico	1306.01*	AVE 50	31.01	251.47	252.26		252.31	0.010936	1.67	34.37	51.66	0.63
unico	1306.01*	AVE 100	40.51	251.47	252.39		252.45	0.011041	1.88	41.37	55.80	0.65
unico	1306.01*	AVE 500	65.91	251.47	252.67		252.76	0.011137	2.29	58.76	65.98	0.69
unico	1301.63*	MCO	3.89	251.40	251.58		251.59	0.010760	0.50	7.96	28.26	0.46
unico	1301.63*	AVE 10	14.70	251.40	251.91		251.95	0.011788	1.28	20.04	44.20	0.61
unico	1301.63*	AVE 50	31.01	251.40	252.21		252.26	0.011251	1.74	34.44	53.18	0.64
unico	1301.63*	AVE 100	40.51	251.40	252.34		252.40	0.011264	1.94	41.67	58.07	0.66

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1301.63*	AVE 500	65.91	251.40	252.63		252.71	0.010924	2.31	59.93	67.65	0.68
unico	1297.265	MCO	3.89	251.32	251.53		251.54	0.012900	0.63	7.45	28.57	0.53
unico	1297.265	AVE 10	14.70	251.32	251.86		251.89	0.012358	1.36	19.99	45.83	0.63
unico	1297.265	AVE 50	31.01	251.32	252.16		252.21	0.011260	1.79	34.97	55.36	0.65
unico	1297.265	AVE 100	40.51	251.32	252.29		252.35	0.011096	1.98	42.68	61.13	0.66
unico	1297.265	AVE 500	65.91	251.32	252.58		252.67	0.010297	2.30	61.79	68.65	0.67
unico	1293.01*	MCO	3.89	251.21	251.46		251.48	0.013735	0.88	7.36	32.01	0.59
unico	1293.01*	AVE 10	14.70	251.21	251.81		251.85	0.010794	1.43	21.18	47.56	0.60
unico	1293.01*	AVE 50	31.01	251.21	252.11		252.17	0.009677	1.80	37.79	59.56	0.61
unico	1293.01*	AVE 100	40.51	251.21	252.25		252.31	0.009327	1.95	46.06	63.08	0.62
unico	1293.01*	AVE 500	65.91	251.21	252.55		252.63	0.008851	2.25	66.06	71.11	0.63
unico	1288.76*	MCO	3.89	251.10	251.42		251.44	0.007743	0.83	9.40	36.69	0.46
unico	1288.76*	AVE 10	14.70	251.10	251.78		251.81	0.007139	1.30	24.87	51.15	0.50
unico	1288.76*	AVE 50	31.01	251.10	252.09		252.13	0.007129	1.67	42.48	62.31	0.54
unico	1288.76*	AVE 100	40.51	251.10	252.22		252.27	0.007178	1.82	51.20	66.50	0.55
unico	1288.76*	AVE 500	65.91	251.10	252.52		252.59	0.007140	2.13	72.70	76.02	0.57
unico	1284.514	MCO	3.89	250.98	251.41		251.42	0.002529	0.57	13.93	40.40	0.28
unico	1284.514	AVE 10	14.70	250.98	251.76		251.78	0.004102	1.08	30.40	54.82	0.39
unico	1284.514	AVE 50	31.01	250.98	252.07		252.10	0.004868	1.47	49.25	66.86	0.45
unico	1284.514	AVE 100	40.51	250.98	252.20		252.24	0.005046	1.62	58.57	70.36	0.47
unico	1284.514	AVE 500	65.91	250.98	252.50		252.56	0.005305	1.92	80.85	77.80	0.50
unico	1280.10*	MCO	3.89	250.95	251.40		251.41	0.002298	0.56	14.33	40.57	0.27
unico	1280.10*	AVE 10	14.70	250.95	251.74		251.76	0.004013	1.08	30.68	55.41	0.39
unico	1280.10*	AVE 50	31.01	250.95	252.05		252.08	0.004815	1.47	49.34	66.75	0.45
unico	1280.10*	AVE 100	40.51	250.95	252.18		252.22	0.005028	1.63	58.58	70.37	0.47
unico	1280.10*	AVE 500	65.91	250.95	252.48		252.53	0.005323	1.94	80.77	77.96	0.50
unico	1275.70*	MCO	3.89	250.92	251.39		251.40	0.002001	0.54	15.07	41.84	0.25
unico	1275.70*	AVE 10	14.70	250.92	251.73		251.75	0.003742	1.06	31.41	55.77	0.38
unico	1275.70*	AVE 50	31.01	250.92	252.03		252.06	0.004658	1.46	49.87	66.85	0.44
unico	1275.70*	AVE 100	40.51	250.92	252.16		252.20	0.004934	1.62	59.06	70.89	0.46
unico	1275.70*	AVE 500	65.91	250.92	252.46		252.51	0.005336	1.94	81.47	79.97	0.50
unico	1271.296	MCO	3.89	250.88	251.39		251.39	0.001602	0.50	16.40	43.90	0.23
unico	1271.296	AVE 10	14.70	250.88	251.71		251.73	0.003310	1.00	33.00	57.45	0.35
unico	1271.296	AVE 50	31.01	250.88	252.01		252.04	0.004313	1.41	51.82	69.39	0.43
unico	1271.296	AVE 100	40.51	250.88	252.14		252.18	0.004585	1.57	61.30	73.37	0.45
unico	1271.296	AVE 500	65.91	250.88	252.44		252.49	0.004855	1.86	84.06	79.54	0.48
unico	1267.25*	MCO	3.89	250.93	251.38		251.38	0.002466	0.57	13.83	39.73	0.28
unico	1267.25*	AVE 10	14.70	250.93	251.69		251.71	0.004878	1.15	28.49	53.37	0.42
unico	1267.25*	AVE 50	31.01	250.93	251.98		252.02	0.006057	1.60	45.63	65.16	0.50
unico	1267.25*	AVE 100	40.51	250.93	252.11		252.16	0.006403	1.77	54.41	70.09	0.52
unico	1267.25*	AVE 500	65.91	250.93	252.40		252.46	0.006518	2.08	76.44	78.74	0.55
unico	1263.22*	MCO	3.89	250.97	251.36		251.37	0.003739	0.64	11.93	37.37	0.33
unico	1263.22*	AVE 10	14.70	250.97	251.66		251.69	0.006955	1.29	24.62	48.37	0.50
unico	1263.22*	AVE 50	31.01	250.97	251.94		251.99	0.008652	1.80	39.66	60.07	0.59
unico	1263.22*	AVE 100	40.51	250.97	252.06		252.12	0.008989	2.00	47.54	64.55	0.61
unico	1263.22*	AVE 500	65.91	250.97	252.35		252.43	0.009073	2.35	67.82	75.23	0.64
unico	1259.18*	MCO	3.89	251.01	251.34		251.35	0.006614	0.75	9.96	36.12	0.43
unico	1259.18*	AVE 10	14.70	251.01	251.62		251.65	0.010300	1.43	21.27	44.93	0.59
unico	1259.18*	AVE 50	31.01	251.01	251.88		251.95	0.012316	2.00	34.16	53.92	0.69
unico	1259.18*	AVE 100	40.51	251.01	252.00		252.08	0.013025	2.25	40.94	58.65	0.73
unico	1259.18*	AVE 500	65.91	251.01	252.29		252.39	0.012671	2.63	59.09	68.31	0.75
unico	1255.148	MCO	3.89	251.06	251.28		251.31	0.021115	1.05	6.93	34.47	0.72
unico	1255.148	AVE 10	14.70	251.06	251.54		251.59	0.021750	1.79	16.62	42.06	0.83
unico	1255.148	AVE 50	31.01	251.06	251.79		251.88	0.021153	2.34	28.13	49.77	0.88
unico	1255.148	AVE 100	40.51	251.06	251.91		252.01	0.020536	2.55	34.20	52.80	0.89
unico	1255.148	AVE 500	65.91	251.06	252.19		252.32	0.018443	2.94	50.51	60.91	0.88
unico	1250.30*	MCO	3.89	250.91	251.16		251.19	0.024304	1.23	6.53	33.76	0.79
unico	1250.30*	AVE 10	14.70	250.91	251.42		251.48	0.023333	1.93	15.94	40.25	0.87
unico	1250.30*	AVE 50	31.01	250.91	251.66		251.77	0.023182	2.51	26.61	46.67	0.93
unico	1250.30*	AVE 100	40.51	250.91	251.78		251.90	0.022666	2.74	32.31	49.67	0.94
unico	1250.30*	AVE 500	65.91	250.91	252.08		252.23	0.020031	3.13	48.32	58.76	0.93
unico	1245.45*	MCO	3.89	250.75	251.02		251.06	0.029785	1.36	5.75	31.61	0.87
unico	1245.45*	AVE 10	14.70	250.75	251.29		251.36	0.025287	2.04	15.36	39.35	0.91
unico	1245.45*	AVE 50	31.01	250.75	251.54	251.37	251.65	0.024617	2.61	25.75	44.93	0.96
unico	1245.45*	AVE 100	40.51	250.75	251.66	251.46	251.79	0.023557	2.82	31.42	47.67	0.96
unico	1245.45*	AVE 500	65.91	250.75	251.98		252.13	0.019750	3.17	47.83	56.93	0.92
unico	1240.612	MCO	3.89	250.60	250.87	250.77	250.91	0.032889	1.31	5.11	25.89	0.90
unico	1240.612	AVE 10	14.70	250.60	251.13	251.04	251.22	0.033908	2.25	13.67	37.84	1.04
unico	1240.612	AVE 50	31.01	250.60	251.41	251.25	251.53	0.025625	2.66	25.25	44.11	0.98

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1240.612	AVE 100	40.51	250.60	251.55	251.34	251.68	0.023034	2.82	31.49	47.00	0.95
unico	1240.612	AVE 500	65.91	250.60	251.89		252.04	0.017752	3.07	48.95	55.55	0.88
unico	1236.07*	MCO	3.89	250.41	250.65	250.61	250.72	0.051710	1.68	4.26	23.00	1.13
unico	1236.07*	AVE 10	14.70	250.41	250.98	250.88	251.08	0.027364	2.23	13.71	34.98	0.96
unico	1236.07*	AVE 50	31.01	250.41	251.30		251.42	0.021036	2.64	25.83	42.06	0.90
unico	1236.07*	AVE 100	40.51	250.41	251.44		251.58	0.019328	2.80	32.15	45.10	0.89
unico	1236.07*	AVE 500	65.91	250.41	251.80		251.96	0.016093	3.13	49.78	55.88	0.85
unico	1231.53*	MCO	3.89	250.21	250.58		250.61	0.012956	1.13	6.69	25.22	0.61
unico	1231.53*	AVE 10	14.70	250.21	250.92		250.99	0.013232	1.80	16.86	33.98	0.69
unico	1231.53*	AVE 50	31.01	250.21	251.23		251.34	0.014059	2.38	28.52	40.91	0.76
unico	1231.53*	AVE 100	40.51	250.21	251.38		251.50	0.014065	2.60	34.64	44.02	0.77
unico	1231.53*	AVE 500	65.91	250.21	251.72		251.89	0.014398	3.13	51.35	57.72	0.82
unico	1227.002	MCO	3.89	250.02	250.57		250.58	0.002823	0.69	11.01	27.53	0.30
unico	1227.002	AVE 10	14.70	250.02	250.90		250.94	0.006148	1.42	21.30	34.25	0.49
unico	1227.002	AVE 50	31.01	250.02	251.20		251.29	0.008739	2.06	32.54	40.44	0.61
unico	1227.002	AVE 100	40.51	250.02	251.34		251.45	0.009598	2.33	38.38	43.52	0.65
unico	1227.002	AVE 500	65.91	250.02	251.65		251.83	0.012833	3.11	53.70	61.89	0.78
unico	1222.11*	MCO	3.89	250.07	250.55		250.56	0.004114	0.77	10.42	31.24	0.36
unico	1222.11*	AVE 10	14.70	250.07	250.87		250.91	0.006985	1.42	21.30	35.63	0.51
unico	1222.11*	AVE 50	31.01	250.07	251.16		251.24	0.009520	2.05	32.11	40.03	0.63
unico	1222.11*	AVE 100	40.51	250.07	251.29		251.40	0.010858	2.36	37.65	44.19	0.69
unico	1222.11*	AVE 500	65.91	250.07	251.60		251.76	0.013525	3.07	53.55	61.41	0.80
unico	1217.23*	MCO	3.89	250.11	250.53		250.54	0.004541	0.73	10.69	33.07	0.37
unico	1217.23*	AVE 10	14.70	250.11	250.84		250.87	0.007381	1.37	21.43	35.73	0.52
unico	1217.23*	AVE 50	31.01	250.11	251.12		251.19	0.010465	2.03	31.85	40.78	0.65
unico	1217.23*	AVE 100	40.51	250.11	251.24		251.34	0.012063	2.36	37.19	45.06	0.71
unico	1217.23*	AVE 500	65.91	250.11	251.54		251.69	0.014240	3.01	53.07	60.76	0.81
unico	1212.354	MCO	3.89	250.16	250.51		250.52	0.004007	0.61	11.38	33.74	0.34
unico	1212.354	AVE 10	14.70	250.16	250.81		250.84	0.007463	1.27	21.86	36.65	0.51
unico	1212.354	AVE 50	31.01	250.16	251.07		251.14	0.010966	1.95	31.80	40.87	0.66
unico	1212.354	AVE 100	40.51	250.16	251.18		251.27	0.013019	2.30	36.81	45.33	0.73
unico	1212.354	AVE 500	65.91	250.16	251.48		251.61	0.015029	2.93	52.21	59.88	0.82
unico	1208.33*	MCO	3.89	250.18	250.49		250.50	0.005738	0.67	10.34	35.28	0.39
unico	1208.33*	AVE 10	14.70	250.18	250.77		250.80	0.009897	1.38	20.74	39.95	0.58
unico	1208.33*	AVE 50	31.01	250.18	251.02		251.09	0.013136	2.01	31.45	45.88	0.71
unico	1208.33*	AVE 100	40.51	250.18	251.13		251.22	0.014323	2.29	36.82	48.69	0.76
unico	1208.33*	AVE 500	65.91	250.18	251.42		251.55	0.015558	2.86	53.17	64.66	0.82
unico	1204.32*	MCO	3.89	250.19	250.46		250.47	0.008787	0.74	9.37	38.63	0.47
unico	1204.32*	AVE 10	14.70	250.19	250.72		250.76	0.012093	1.40	20.24	44.57	0.63
unico	1204.32*	AVE 50	31.01	250.19	250.96		251.03	0.014074	1.96	31.44	48.08	0.72
unico	1204.32*	AVE 100	40.51	250.19	251.07		251.16	0.015102	2.22	36.86	50.61	0.77
unico	1204.32*	AVE 500	65.91	250.19	251.36		251.48	0.016278	2.80	54.25	70.90	0.83
unico	1200.308	MCO	3.89	250.21	250.42		250.43	0.011354	0.69	8.55	40.91	0.51
unico	1200.308	AVE 10	14.70	250.21	250.67		250.71	0.013441	1.34	19.98	46.71	0.65
unico	1200.308	AVE 50	31.01	250.21	250.91		250.97	0.015053	1.89	31.28	49.71	0.73
unico	1200.308	AVE 100	40.51	250.21	251.01		251.10	0.016369	2.17	36.62	52.84	0.78
unico	1200.308	AVE 500	65.91	250.21	251.30		251.41	0.016890	2.72	55.65	77.08	0.84
unico	1196.18*	MCO	3.89	250.16	250.37		250.38	0.012963	0.78	8.51	43.34	0.56
unico	1196.18*	AVE 10	14.70	250.16	250.61		250.65	0.014689	1.41	19.47	46.50	0.68
unico	1196.18*	AVE 50	31.01	250.16	250.82		250.90	0.018937	2.08	30.19	56.66	0.82
unico	1196.18*	AVE 100	40.51	250.16	250.93		251.02	0.019741	2.34	36.23	62.08	0.86
unico	1196.18*	AVE 500	65.91	250.16	251.24		251.34	0.014952	2.57	58.83	79.00	0.79
unico	1192.06*	MCO	3.89	250.10	250.31		250.33	0.014228	0.84	8.47	43.51	0.59
unico	1192.06*	AVE 10	14.70	250.10	250.54		250.58	0.017891	1.54	19.10	53.18	0.74
unico	1192.06*	AVE 50	31.01	250.10	250.75		250.82	0.019542	2.09	31.19	62.53	0.83
unico	1192.06*	AVE 100	40.51	250.10	250.85		250.94	0.019047	2.28	37.98	66.77	0.84
unico	1192.06*	AVE 500	65.91	250.10	251.20		251.28	0.012114	2.34	63.68	80.34	0.71
unico	1187.93*	MCO	3.89	250.04	250.25		250.26	0.015874	0.88	8.69	49.89	0.62
unico	1187.93*	AVE 10	14.70	250.04	250.48		250.51	0.015348	1.42	21.12	58.97	0.69
unico	1187.93*	AVE 50	31.01	250.04	250.69		250.75	0.016239	1.90	34.23	66.32	0.76
unico	1187.93*	AVE 100	40.51	250.04	250.79		250.86	0.015564	2.06	41.67	70.10	0.76
unico	1187.93*	AVE 500	65.91	250.04	251.17		251.24	0.009241	2.08	70.07	81.93	0.63
unico	1183.816	MCO	3.89	249.98	250.22		250.22	0.006195	0.59	12.46	56.45	0.39
unico	1183.816	AVE 10	14.70	249.98	250.44		250.46	0.009241	1.13	25.74	63.56	0.54
unico	1183.816	AVE 50	31.01	249.98	250.64		250.68	0.011389	1.61	39.33	70.00	0.64
unico	1183.816	AVE 100	40.51	249.98	250.75		250.80	0.011010	1.76	47.34	72.44	0.64
unico	1183.816	AVE 500	65.91	249.98	251.15		251.20	0.006945	1.84	77.80	85.16	0.55
unico	1179.34*	MCO	3.89	249.99	250.18		250.19	0.009703	0.66	10.94	56.70	0.48
unico	1179.34*	AVE 10	14.70	249.99	250.38		250.41	0.013710	1.26	23.33	66.62	0.64

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1179.34*	AVE 50	31.01	249.99	250.58		250.63	0.014781	1.71	36.99	72.33	0.71
unico	1179.34*	AVE 100	40.51	249.99	250.70		250.75	0.013161	1.83	45.74	75.32	0.69
unico	1179.34*	AVE 500	65.91	249.99	251.12		251.17	0.006440	1.74	79.89	85.16	0.52
unico	1174.86*	MCO	3.89	249.99	250.13		250.14	0.013951	0.63	10.17	60.27	0.54
unico	1174.86*	AVE 10	14.70	249.99	250.31		250.34	0.017904	1.26	21.89	67.56	0.71
unico	1174.86*	AVE 50	31.01	249.99	250.50		250.55	0.017784	1.71	35.55	73.93	0.76
unico	1174.86*	AVE 100	40.51	249.99	250.64		250.69	0.014206	1.78	45.60	78.19	0.71
unico	1174.86*	AVE 500	65.91	249.99	251.10		251.14	0.005666	1.61	83.16	84.92	0.49
unico	1170.396	MCO	3.89	249.99	250.04		250.05	0.028179	0.44	8.43	65.35	0.64
unico	1170.396	AVE 10	14.70	249.99	250.21		250.24	0.025097	1.16	20.41	71.40	0.79
unico	1170.396	AVE 50	31.01	249.99	250.43		250.47	0.017716	1.53	36.35	76.20	0.74
unico	1170.396	AVE 100	40.51	249.99	250.58		250.63	0.011818	1.53	48.33	76.83	0.64
unico	1170.396	AVE 500	65.91	249.99	251.08		251.11	0.004750	1.46	87.10	83.11	0.45
unico	1165.86*	MCO	3.89	249.85	249.91		249.92	0.028617	0.49	8.13	58.23	0.67
unico	1165.86*	AVE 10	14.70	249.85	250.11		250.14	0.019916	1.15	21.32	68.85	0.72
unico	1165.86*	AVE 50	31.01	249.85	250.36		250.40	0.012775	1.44	38.83	71.50	0.64
unico	1165.86*	AVE 100	40.51	249.85	250.54		250.58	0.008656	1.45	51.80	73.48	0.56
unico	1165.86*	AVE 500	65.91	249.85	251.06		251.09	0.003855	1.41	91.84	83.07	0.41
unico	1161.33*	MCO	3.89	249.70	249.77		249.78	0.032087	0.53	7.71	55.30	0.71
unico	1161.33*	AVE 10	14.70	249.70	250.05		250.07	0.010703	1.01	25.28	65.73	0.55
unico	1161.33*	AVE 50	31.01	249.70	250.32		250.35	0.008322	1.31	43.45	69.40	0.54
unico	1161.33*	AVE 100	40.51	249.70	250.51		250.54	0.005966	1.33	56.97	71.24	0.48
unico	1161.33*	AVE 500	65.91	249.70	251.05		251.08	0.003078	1.34	97.11	83.36	0.37
unico	1156.810	MCO	3.89	249.56	249.67		249.68	0.017541	0.54	9.20	54.58	0.57
unico	1156.810	AVE 10	14.70	249.56	250.03		250.04	0.005092	0.84	31.34	64.44	0.40
unico	1156.810	AVE 50	31.01	249.56	250.30		250.32	0.005285	1.17	49.18	67.35	0.44
unico	1156.810	AVE 100	40.51	249.56	250.49		250.52	0.004147	1.22	62.78	69.70	0.41
unico	1156.810	AVE 500	65.91	249.56	251.04		251.06	0.002452	1.28	103.57	87.63	0.34
unico	1153.20*	MCO	3.89	249.37	249.59		249.61	0.020184	1.00	8.15	50.11	0.70
unico	1153.20*	AVE 10	14.70	249.37	250.01		250.02	0.003638	0.89	36.98	78.46	0.36
unico	1153.20*	AVE 50	31.01	249.37	250.28		250.30	0.003716	1.14	58.90	82.40	0.38
unico	1153.20*	AVE 100	40.51	249.37	250.49		250.51	0.002858	1.14	75.95	85.51	0.35
unico	1153.20*	AVE 500	65.91	249.37	251.03		251.05	0.001614	1.12	125.08	93.49	0.28
unico	1149.59*	MCO	3.89	249.19	249.55		249.56	0.008560	0.93	9.94	49.45	0.50
unico	1149.59*	AVE 10	14.70	249.19	250.00		250.01	0.002670	0.90	42.60	92.98	0.32
unico	1149.59*	AVE 50	31.01	249.19	250.27		250.29	0.002728	1.10	68.88	98.36	0.34
unico	1149.59*	AVE 100	40.51	249.19	250.48		250.50	0.002053	1.07	89.44	100.65	0.30
unico	1149.59*	AVE 500	65.91	249.19	251.03		251.05	0.001154	1.02	146.76	106.70	0.24
unico	1145.991	MCO	3.89	249.00	249.54		249.55	0.002364	0.64	14.83	52.17	0.28
unico	1145.991	AVE 10	14.70	249.00	249.99		250.00	0.001912	0.87	48.65	105.96	0.28
unico	1145.991	AVE 50	31.01	249.00	250.27		250.28	0.002018	1.05	79.10	112.78	0.30
unico	1145.991	AVE 100	40.51	249.00	250.48		250.49	0.001522	1.01	102.91	114.89	0.27
unico	1145.991	AVE 500	65.91	249.00	251.03		251.04	0.000865	0.94	168.22	120.21	0.21
unico	1141.78*	MCO	3.89	249.00	249.53		249.54	0.002580	0.65	14.42	51.62	0.29
unico	1141.78*	AVE 10	14.70	249.00	249.98		250.00	0.001898	0.86	48.03	100.87	0.28
unico	1141.78*	AVE 50	31.01	249.00	250.26		250.27	0.002119	1.07	77.94	112.68	0.30
unico	1141.78*	AVE 100	40.51	249.00	250.47		250.48	0.001568	1.02	102.00	114.91	0.27
unico	1141.78*	AVE 500	65.91	249.00	251.03		251.04	0.000874	0.94	167.70	120.10	0.21
unico	1137.58*	MCO	3.89	249.00	249.51		249.52	0.002860	0.67	13.95	51.01	0.30
unico	1137.58*	AVE 10	14.70	249.00	249.98		249.99	0.001918	0.85	47.64	98.82	0.28
unico	1137.58*	AVE 50	31.01	249.00	250.25		250.26	0.002225	1.08	76.79	112.63	0.31
unico	1137.58*	AVE 100	40.51	249.00	250.46		250.48	0.001613	1.03	101.16	114.82	0.27
unico	1137.58*	AVE 500	65.91	249.00	251.02		251.04	0.000884	0.95	167.26	120.31	0.21
unico	1133.383	MCO	3.89	249.01	249.50		249.51	0.003210	0.69	13.44	50.38	0.32
unico	1133.383	AVE 10	14.70	249.01	249.97		249.98	0.001956	0.85	47.31	98.01	0.28
unico	1133.383	AVE 50	31.01	249.01	250.24		250.25	0.002321	1.10	75.71	112.07	0.32
unico	1133.383	AVE 100	40.51	249.01	250.46		250.47	0.001656	1.03	100.39	114.78	0.28
unico	1133.383	AVE 500	65.91	249.01	251.02		251.03	0.000894	0.95	166.88	120.61	0.21
unico	1129.75*	MCO	3.89	249.01	249.49		249.50	0.003858	0.74	12.51	48.57	0.35
unico	1129.75*	AVE 10	14.70	249.01	249.96		249.97	0.002087	0.88	45.71	94.13	0.29
unico	1129.75*	AVE 50	31.01	249.01	250.23		250.25	0.002527	1.14	72.89	108.67	0.33
unico	1129.75*	AVE 100	40.51	249.01	250.45		250.46	0.001806	1.08	97.67	114.71	0.29
unico	1129.75*	AVE 500	65.91	249.01	251.02		251.03	0.000929	0.97	164.32	119.09	0.22
unico	1126.12*	MCO	3.89	249.01	249.47		249.48	0.004767	0.80	11.54	46.83	0.39
unico	1126.12*	AVE 10	14.70	249.01	249.95		249.96	0.002133	0.88	44.62	89.29	0.29
unico	1126.12*	AVE 50	31.01	249.01	250.22		250.24	0.002699	1.17	70.48	104.81	0.34
unico	1126.12*	AVE 100	40.51	249.01	250.44		250.46	0.001964	1.12	95.05	114.36	0.30
unico	1126.12*	AVE 500	65.91	249.01	251.01		251.03	0.000972	0.99	162.49	120.00	0.22
unico	1122.489	MCO	3.89	249.01	249.45		249.46	0.006320	0.89	10.37	44.69	0.44

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1122.489	AVE 10	14.70	249.01	249.94		249.96	0.002215	0.89	43.74	86.93	0.30
unico	1122.489	AVE 50	31.01	249.01	250.21		250.23	0.002852	1.19	68.39	101.02	0.35
unico	1122.489	AVE 100	40.51	249.01	250.43		250.45	0.002122	1.16	92.48	113.20	0.31
unico	1122.489	AVE 500	65.91	249.01	251.01		251.02	0.001021	1.01	160.44	121.18	0.23
unico	1118.54*	MCO	3.89	248.94	249.41		249.44	0.007033	0.99	9.34	41.05	0.47
unico	1118.54*	AVE 10	14.70	248.94	249.93		249.95	0.002189	0.92	42.67	82.88	0.30
unico	1118.54*	AVE 50	31.01	248.94	250.19		250.21	0.002979	1.26	65.73	96.36	0.36
unico	1118.54*	AVE 100	40.51	248.94	250.42		250.44	0.002225	1.22	89.16	108.82	0.32
unico	1118.54*	AVE 500	65.91	248.94	251.00		251.02	0.001073	1.06	157.31	120.96	0.24
unico	1114.59*	MCO	3.89	248.87	249.37		249.40	0.008599	1.11	8.22	37.24	0.52
unico	1114.59*	AVE 10	14.70	248.87	249.92		249.94	0.002182	0.94	41.91	80.23	0.30
unico	1114.59*	AVE 50	31.01	248.87	250.18		250.20	0.003074	1.30	63.49	91.56	0.37
unico	1114.59*	AVE 100	40.51	248.87	250.41		250.43	0.002319	1.26	86.17	104.36	0.33
unico	1114.59*	AVE 500	65.91	248.87	251.00		251.01	0.001135	1.10	154.18	121.19	0.24
unico	1110.647	MCO	3.89	248.80	249.26	249.24	249.34	0.026758	1.67	4.89	27.14	0.88
unico	1110.647	AVE 10	14.70	248.80	249.92		249.93	0.002199	0.95	41.34	78.35	0.30
unico	1110.647	AVE 50	31.01	248.80	250.16		250.19	0.003134	1.32	61.65	86.55	0.37
unico	1110.647	AVE 100	40.51	248.80	250.37		250.42	0.002406	1.29	83.48	99.81	0.34
unico	1110.647	AVE 500	65.91	248.80	250.99		251.01	0.001205	1.14	150.96	121.35	0.25
unico	1105.93*	MCO	3.89	248.40	248.98	248.98	249.19	0.031146	2.12	2.12	5.49	0.98
unico	1105.93*	AVE 10	14.70	248.40	249.90		249.92	0.001775	1.04	41.95	81.03	0.28
unico	1105.93*	AVE 50	31.01	248.40	250.14		250.17	0.002863	1.47	62.89	94.20	0.37
unico	1105.93*	AVE 100	40.51	248.40	250.38		250.41	0.002015	1.35	87.05	102.87	0.31
unico	1105.93*	AVE 500	65.91	248.40	250.99		251.00	0.001051	1.18	154.65	119.22	0.24
unico	1101.223	MCO	3.89	248.00	248.99	248.59	249.06	0.004212	1.17	3.78	5.41	0.39
unico	1101.223	AVE 10	14.70	248.00	249.88		249.91	0.001437	1.08	42.84	88.88	0.26
unico	1101.223	AVE 50	31.01	248.00	250.12		250.16	0.002361	1.51	65.19	98.57	0.34
unico	1101.223	AVE 100	40.51	248.00	250.37		250.40	0.001659	1.37	91.08	105.42	0.29
unico	1101.223	AVE 500	65.91	248.00	250.98		251.00	0.000910	1.18	160.02	120.03	0.22
unico	1096.82*	MCO	3.89	248.00	248.97		249.04	0.004855	1.23	3.55	5.11	0.42
unico	1096.82*	AVE 10	14.70	248.00	249.87		249.91	0.001531	1.11	41.61	87.58	0.27
unico	1096.82*	AVE 50	31.01	248.00	250.10		250.15	0.002571	1.56	63.35	99.25	0.35
unico	1096.82*	AVE 100	40.51	248.00	250.36		250.39	0.001736	1.39	90.29	107.46	0.30
unico	1096.82*	AVE 500	65.91	248.00	250.98		250.99	0.000904	1.18	160.66	120.58	0.22
unico	1092.41*	MCO	3.89	248.00	248.93		249.02	0.005687	1.28	3.34	4.83	0.45
unico	1092.41*	AVE 10	14.70	248.00	249.87		249.90	0.001627	1.13	40.47	85.96	0.27
unico	1092.41*	AVE 50	31.01	248.00	250.09		250.14	0.002862	1.62	61.43	101.33	0.37
unico	1092.41*	AVE 100	40.51	248.00	250.35		250.39	0.001794	1.40	89.83	108.97	0.30
unico	1092.41*	AVE 500	65.91	248.00	250.97		250.99	0.000899	1.16	161.42	121.51	0.22
unico	1088.014	MCO	3.89	248.00	248.90		248.99	0.006887	1.34	3.15	4.64	0.48
unico	1088.014	AVE 10	14.70	248.00	249.86		249.89	0.001717	1.14	39.63	84.22	0.27
unico	1088.014	AVE 50	31.01	248.00	250.07		250.13	0.003167	1.67	59.92	103.39	0.38
unico	1088.014	AVE 100	40.51	248.00	250.35		250.38	0.001842	1.39	89.63	110.11	0.30
unico	1088.014	AVE 500	65.91	248.00	250.97		250.99	0.000894	1.14	162.25	122.25	0.21
unico	1084.24*	MCO	3.89	248.00	248.87		248.96	0.006930	1.34	3.23	4.87	0.48
unico	1084.24*	AVE 10	14.70	248.00	249.85		249.88	0.001717	1.15	39.19	83.16	0.28
unico	1084.24*	AVE 50	31.01	248.00	250.05		250.11	0.003301	1.71	58.25	100.93	0.39
unico	1084.24*	AVE 100	40.51	248.00	250.34		250.37	0.001889	1.41	87.87	106.64	0.30
unico	1084.24*	AVE 500	65.91	248.00	250.96		250.98	0.000919	1.16	158.68	118.66	0.22
unico	1080.48*	MCO	3.89	248.00	248.85		248.93	0.006923	1.33	3.32	4.97	0.48
unico	1080.48*	AVE 10	14.70	248.00	249.84		249.88	0.001720	1.15	38.76	82.12	0.28
unico	1080.48*	AVE 50	31.01	248.00	250.03		250.10	0.003484	1.76	56.46	99.17	0.40
unico	1080.48*	AVE 100	40.51	248.00	250.33		250.36	0.001936	1.44	86.76	105.91	0.31
unico	1080.48*	AVE 500	65.91	248.00	250.96		250.98	0.000929	1.18	156.25	114.60	0.22
unico	1076.715	MCO	3.89	248.00	248.82		248.91	0.007005	1.32	3.40	5.00	0.49
unico	1076.715	AVE 10	14.70	248.00	249.84		249.87	0.001728	1.16	38.32	81.05	0.28
unico	1076.715	AVE 50	31.01	248.00	250.01		250.09	0.003781	1.83	54.40	98.79	0.42
unico	1076.715	AVE 100	40.51	248.00	250.32		250.36	0.001966	1.46	86.14	105.90	0.31
unico	1076.715	AVE 500	65.91	248.00	250.96		250.98	0.000928	1.18	154.84	110.55	0.22
unico	1072.61*	MCO	3.89	248.00	248.78		248.88	0.008351	1.41	3.21	5.03	0.54
unico	1072.61*	AVE 10	14.70	248.00	249.83		249.86	0.001776	1.19	37.76	80.00	0.29
unico	1072.61*	AVE 50	31.01	248.00	249.98		250.07	0.004196	1.94	51.82	96.34	0.45
unico	1072.61*	AVE 100	40.51	248.00	250.31		250.35	0.002023	1.50	85.22	105.57	0.32
unico	1072.61*	AVE 500	65.91	248.00	250.95		250.97	0.000930	1.20	154.14	109.14	0.23
unico	1068.52*	MCO	3.89	248.01	248.72		248.83	0.010726	1.55	3.00	5.04	0.61
unico	1068.52*	AVE 10	14.70	248.01	249.82	248.99	249.86	0.001820	1.22	37.28	79.08	0.29
unico	1068.52*	AVE 50	31.01	248.01	249.95		250.05	0.004734	2.07	48.90	93.02	0.48
unico	1068.52*	AVE 100	40.51	248.01	250.30		250.34	0.002069	1.53	84.52	105.18	0.33
unico	1068.52*	AVE 500	65.91	248.01	250.95		250.97	0.000935	1.22	153.49	107.96	0.23

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1064.422	MCO	3.89	248.01	248.52	248.52	248.75	0.034520	2.23	2.10	4.87	1.04
unico	1064.422	AVE 10	14.70	248.01	248.99	248.99	249.76	0.046338	4.13	4.55	5.51	1.36
unico	1064.422	AVE 50	31.01	248.01	249.91		250.03	0.005519	2.24	45.40	89.00	0.53
unico	1064.422	AVE 100	40.51	248.01	250.29		250.33	0.002102	1.57	83.95	104.41	0.33
unico	1064.422	AVE 500	65.91	248.01	250.94		250.96	0.000938	1.24	152.83	106.64	0.23
unico	1060.88*	MCO	3.89	247.67	248.13	248.25	248.55	0.082091	2.94	1.47	4.51	1.53
unico	1060.88*	AVE 10	14.70	247.67	248.65	248.90	249.57	0.057560	4.41	4.04	5.28	1.48
unico	1060.88*	AVE 50	31.01	247.67	249.86		250.01	0.005010	2.29	42.89	83.95	0.50
unico	1060.88*	AVE 100	40.51	247.67	250.28		250.32	0.001917	1.60	82.76	100.63	0.32
unico	1060.88*	AVE 500	65.91	247.67	250.94		250.96	0.000912	1.29	149.98	102.77	0.23
unico	1057.34*	MCO	3.89	247.34	247.85	247.96	248.27	0.078121	2.88	1.41	4.14	1.48
unico	1057.34*	AVE 10	14.70	247.34	248.35	248.63	249.35	0.064016	4.55	3.75	5.09	1.54
unico	1057.34*	AVE 50	31.01	247.34	249.84		249.99	0.004103	2.22	42.66	80.94	0.46
unico	1057.34*	AVE 100	40.51	247.34	250.26		250.32	0.001722	1.61	81.96	96.65	0.31
unico	1057.34*	AVE 500	65.91	247.34	250.93		250.96	0.000885	1.33	147.22	98.94	0.23
unico	1053.808	MCO	3.89	247.00	248.03	247.67	248.11	0.005180	1.25	3.45	4.87	0.43
unico	1053.808	AVE 10	14.70	247.00	248.80	248.36	249.07	0.008004	2.38	7.61	5.94	0.60
unico	1053.808	AVE 50	31.01	247.00	249.83		249.98	0.003238	2.10	43.59	79.03	0.41
unico	1053.808	AVE 100	40.51	247.00	250.25		250.31	0.001541	1.60	81.41	93.12	0.29
unico	1053.808	AVE 500	65.91	247.00	250.92		250.95	0.000858	1.36	144.53	95.26	0.22
unico	1049.71*	MCO	3.89	247.00	248.01		248.09	0.005366	1.27	3.46	4.98	0.44
unico	1049.71*	AVE 10	14.70	247.00	248.76		249.04	0.008342	2.43	7.65	6.33	0.61
unico	1049.71*	AVE 50	31.01	247.00	249.76		249.96	0.004040	2.34	36.68	68.08	0.46
unico	1049.71*	AVE 100	40.51	247.00	250.23		250.30	0.001725	1.70	73.96	82.09	0.31
unico	1049.71*	AVE 500	65.91	247.00	250.91		250.95	0.001016	1.49	131.04	87.21	0.25
unico	1045.62*	MCO	3.89	247.00	247.98		248.06	0.005652	1.30	3.50	5.17	0.46
unico	1045.62*	AVE 10	14.70	247.00	248.73		249.00	0.008478	2.44	7.85	6.61	0.62
unico	1045.62*	AVE 50	31.01	247.00	249.72	248.92	249.94	0.004531	2.47	32.28	54.15	0.49
unico	1045.62*	AVE 100	40.51	247.00	250.21		250.29	0.001962	1.83	69.46	81.04	0.33
unico	1045.62*	AVE 500	65.91	247.00	250.90		250.94	0.001075	1.55	125.98	82.98	0.26
unico	1041.538	MCO	3.89	247.00	247.96		248.04	0.005995	1.31	3.60	5.45	0.47
unico	1041.538	AVE 10	14.70	247.00	248.70		248.96	0.008570	2.44	8.07	6.65	0.63
unico	1041.538	AVE 50	31.01	247.00	249.71		249.91	0.004342	2.44	31.28	42.75	0.49
unico	1041.538	AVE 100	40.51	247.00	250.18		250.28	0.002303	1.99	64.41	80.26	0.37
unico	1041.538	AVE 500	65.91	247.00	250.89		250.94	0.001150	1.62	121.97	81.23	0.27
unico	1036.57*	MCO	3.89	247.00	247.92		248.01	0.006920	1.35	3.43	5.50	0.50
unico	1036.57*	AVE 10	14.70	247.00	248.65		248.92	0.009056	2.44	7.94	6.90	0.64
unico	1036.57*	AVE 50	31.01	247.00	249.62		249.89	0.005321	2.62	26.00	35.41	0.54
unico	1036.57*	AVE 100	40.51	247.00	250.10		250.26	0.003256	2.31	45.72	49.44	0.43
unico	1036.57*	AVE 500	65.91	247.00	250.82		250.93	0.002026	2.11	91.31	70.27	0.35
unico	1031.604	MCO	3.89	247.00	247.87		247.97	0.008490	1.41	3.22	5.55	0.54
unico	1031.604	AVE 10	14.70	247.00	248.60		248.87	0.009518	2.43	7.96	7.48	0.65
unico	1031.604	AVE 50	31.01	247.00	249.57		249.86	0.005801	2.68	23.12	29.17	0.55
unico	1031.604	AVE 100	40.51	247.00	250.05		250.24	0.003628	2.40	40.26	41.09	0.45
unico	1031.604	AVE 500	65.91	247.00	250.77		250.91	0.002572	2.34	74.00	54.92	0.40
unico	1027.71*	MCO	3.89	247.00	247.82		247.93	0.010709	1.53	3.01	5.53	0.61
unico	1027.71*	AVE 10	14.70	247.00	248.52		248.83	0.011517	2.60	7.54	7.46	0.71
unico	1027.71*	AVE 50	31.01	247.00	249.46	248.94	249.82	0.007479	2.98	19.52	23.60	0.63
unico	1027.71*	AVE 100	40.51	247.00	249.98		250.22	0.004531	2.66	35.36	37.35	0.51
unico	1027.71*	AVE 500	65.91	247.00	250.73		250.90	0.002938	2.51	67.90	47.86	0.42
unico	1023.835	MCO	3.89	247.00	247.63	247.63	247.85	0.031329	2.16	2.13	5.26	1.00
unico	1023.835	AVE 10	14.70	247.00	248.34	248.26	248.76	0.019114	3.08	6.40	7.22	0.91
unico	1023.835	AVE 50	31.01	247.00	249.33	248.93	249.78	0.009774	3.31	16.36	17.50	0.72
unico	1023.835	AVE 100	40.51	247.00	249.85		250.19	0.006153	3.03	29.40	31.92	0.59
unico	1023.835	AVE 500	65.91	247.00	250.68		250.88	0.003498	2.73	61.29	43.14	0.46
unico	1019.92*	MCO	3.89	246.67	247.22	247.34	247.65	0.081748	2.90	1.42	4.29	1.52
unico	1019.92*	AVE 10	14.70	246.67	248.41		248.66	0.007807	2.34	8.39	7.46	0.60
unico	1019.92*	AVE 50	31.01	246.67	249.37		249.72	0.006218	2.87	18.56	18.41	0.58
unico	1019.92*	AVE 100	40.51	246.67	249.87		250.16	0.004525	2.76	30.77	29.55	0.51
unico	1019.92*	AVE 500	65.91	246.67	250.62		250.86	0.003536	2.83	55.85	38.33	0.47
unico	1016.01*	MCO	3.89	246.34	247.46	247.04	247.52	0.003911	1.13	3.89	5.29	0.38
unico	1016.01*	AVE 10	14.70	246.34	248.44		248.61	0.004201	1.92	10.13	7.81	0.45
unico	1016.01*	AVE 50	31.01	246.34	249.41		249.68	0.004099	2.50	21.35	19.84	0.47
unico	1016.01*	AVE 100	40.51	246.34	249.89		250.13	0.003323	2.49	33.75	30.80	0.44
unico	1016.01*	AVE 500	65.91	246.34	250.63		250.84	0.002753	2.60	59.47	37.04	0.41
unico	1012.106	MCO	3.89	246.00	247.47		247.51	0.001458	0.83	5.36	5.48	0.24
unico	1012.106	AVE 10	14.70	246.00	248.47		248.59	0.002514	1.63	12.23	9.55	0.35
unico	1012.106	AVE 50	31.01	246.00	249.45		249.64	0.002604	2.12	26.58	23.44	0.38
unico	1012.106	AVE 100	40.51	246.00	249.93		250.10	0.002206	2.14	40.12	32.64	0.36
unico	1012.106	AVE 500	65.91	246.00	250.65		250.82	0.002059	2.33	65.64	36.86	0.35

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	1007.47*	MCO	3.89	246.00	247.47		247.50	0.001502	0.83	5.32	5.54	0.24
unico	1007.47*	AVE 10	14.70	246.00	248.45		248.58	0.002540	1.62	12.24	9.59	0.35
unico	1007.47*	AVE 50	31.01	246.00	249.44		249.63	0.002583	2.10	26.81	23.35	0.38
unico	1007.47*	AVE 100	40.51	246.00	249.92		250.08	0.002186	2.12	40.25	32.20	0.35
unico	1007.47*	AVE 500	65.91	246.00	250.64		250.81	0.002054	2.32	65.44	36.45	0.35
unico	1002.84*	MCO	3.89	246.00	247.46		247.49	0.001548	0.84	5.29	5.60	0.25
unico	1002.84*	AVE 10	14.70	246.00	248.44		248.56	0.002568	1.62	12.25	9.62	0.35
unico	1002.84*	AVE 50	31.01	246.00	249.43		249.61	0.002564	2.08	27.03	23.25	0.37
unico	1002.84*	AVE 100	40.51	246.00	249.91		250.07	0.002163	2.10	40.37	31.69	0.35
unico	1002.84*	AVE 500	65.91	246.00	250.64		250.80	0.002051	2.30	65.25	36.09	0.35
unico	998.221*	MCO	3.89	246.00	247.45		247.49	0.001602	0.84	5.25	5.66	0.25
unico	998.221*	AVE 10	14.70	246.00	248.43		248.55	0.002603	1.61	12.25	9.65	0.35
unico	998.221*	AVE 50	31.01	246.00	249.43		249.60	0.002550	2.06	27.23	23.18	0.37
unico	998.221*	AVE 100	40.51	246.00	249.90		250.06	0.002145	2.08	40.47	31.20	0.35
unico	998.221*	AVE 500	65.91	246.00	250.63		250.79	0.002043	2.29	65.08	35.55	0.35
unico	993.592*	MCO	3.89	246.00	247.44		247.48	0.001659	0.85	5.21	5.72	0.25
unico	993.592*	AVE 10	14.70	246.00	248.42		248.54	0.002638	1.61	12.24	9.68	0.35
unico	993.592*	AVE 50	31.01	246.00	249.42		249.59	0.002537	2.04	27.42	23.11	0.37
unico	993.592*	AVE 100	40.51	246.00	249.90		250.05	0.002128	2.06	40.55	30.75	0.35
unico	993.592*	AVE 500	65.91	246.00	250.62		250.78	0.002037	2.28	64.87	35.06	0.35
unico	988.964*	MCO	3.89	246.00	247.43		247.47	0.001718	0.85	5.17	5.77	0.26
unico	988.964*	AVE 10	14.70	246.00	248.41		248.53	0.002676	1.61	12.23	9.71	0.35
unico	988.964*	AVE 50	31.01	246.00	249.41		249.57	0.002525	2.03	27.60	23.07	0.37
unico	988.964*	AVE 100	40.51	246.00	249.89		250.04	0.002112	2.04	40.63	30.34	0.34
unico	988.964*	AVE 500	65.91	246.00	250.61		250.77	0.002042	2.27	64.65	34.94	0.35
unico	984.336*	MCO	3.89	246.00	247.43		247.46	0.001785	0.86	5.13	5.83	0.26
unico	984.336*	AVE 10	14.70	246.00	248.40		248.51	0.002720	1.61	12.22	9.77	0.36
unico	984.336*	AVE 50	31.01	246.00	249.40		249.56	0.002515	2.01	27.77	23.02	0.37
unico	984.336*	AVE 100	40.51	246.00	249.88		250.03	0.002099	2.02	40.72	30.01	0.34
unico	984.336*	AVE 500	65.91	246.00	250.60		250.76	0.002074	2.28	64.43	35.61	0.35
unico	979.707*	MCO	3.89	246.00	247.42		247.45	0.001858	0.86	5.09	5.88	0.26
unico	979.707*	AVE 10	14.70	246.00	248.38		248.50	0.002770	1.61	12.20	9.84	0.36
unico	979.707*	AVE 50	31.01	246.00	249.39		249.55	0.002505	2.00	27.92	22.97	0.36
unico	979.707*	AVE 100	40.51	246.00	249.87		250.02	0.002086	2.01	40.81	29.72	0.34
unico	979.707*	AVE 500	65.91	246.00	250.58		250.75	0.002160	2.31	64.70	39.00	0.36
unico	975.079*	MCO	3.89	246.00	247.41		247.44	0.001941	0.87	5.04	5.94	0.27
unico	975.079*	AVE 10	14.70	246.00	248.37		248.49	0.002828	1.61	12.17	9.93	0.36
unico	975.079*	AVE 50	31.01	246.00	249.38		249.54	0.002497	1.98	28.07	22.90	0.36
unico	975.079*	AVE 100	40.51	246.00	249.86		250.01	0.002063	1.99	40.94	29.17	0.34
unico	975.079*	AVE 500	65.91	246.00	250.58		250.74	0.002104	2.27	65.63	38.84	0.35
unico	970.451*	MCO	3.89	246.00	247.40		247.44	0.002033	0.88	4.99	5.99	0.27
unico	970.451*	AVE 10	14.70	246.00	248.36		248.48	0.002902	1.62	12.14	10.14	0.36
unico	970.451*	AVE 50	31.01	246.00	249.37		249.52	0.002495	1.97	28.22	22.95	0.36
unico	970.451*	AVE 100	40.51	246.00	249.86		250.00	0.002041	1.97	41.05	28.64	0.34
unico	970.451*	AVE 500	65.91	246.00	250.57		250.73	0.002045	2.23	66.67	38.75	0.35
unico	965.823*	MCO	3.89	246.00	247.39	246.81	247.43	0.002135	0.89	4.94	6.04	0.28
unico	965.823*	AVE 10	14.70	246.00	248.34	247.45	248.46	0.002979	1.62	12.12	10.38	0.37
unico	965.823*	AVE 50	31.01	246.00	249.36	248.08	249.51	0.002492	1.95	28.41	23.12	0.36
unico	965.823*	AVE 100	40.51	246.00	249.85	248.46	249.99	0.002030	1.95	41.21	28.51	0.33
unico	965.823*	AVE 500	65.91	246.00	250.57	249.17	250.71	0.001985	2.19	67.89	38.91	0.34
unico	961.194*	MCO	3.89	246.00	247.38	246.82	247.42	0.002249	0.89	4.89	6.10	0.29
unico	961.194*	AVE 10	14.70	246.00	248.33	247.45	248.45	0.003055	1.63	12.10	10.56	0.37
unico	961.194*	AVE 50	31.01	246.00	249.35	248.06	249.50	0.002479	1.94	28.64	23.14	0.36
unico	961.194*	AVE 100	40.51	246.00	249.84	248.47	249.98	0.002013	1.93	41.52	28.62	0.33
unico	961.194*	AVE 500	65.91	246.00	250.56	249.15	250.70	0.001902	2.13	69.36	38.70	0.33
unico	956.5664	MCO	3.89	246.00	247.36	246.82	247.40	0.002378	0.91	4.83	6.17	0.29
unico	956.5664	AVE 10	14.70	246.00	248.31	247.45	248.43	0.003129	1.63	12.08	10.70	0.37
unico	956.5664	AVE 50	31.01	246.00	249.34	248.00	249.49	0.002472	1.92	28.97	23.64	0.36
unico	956.5664	AVE 100	40.51	246.00	249.83	248.47	249.96	0.001976	1.91	42.14	28.84	0.33
unico	956.5664	AVE 500	65.91	246.00	250.56	249.13	250.69	0.001815	2.08	70.85	38.28	0.32
unico	952.991*	MCO	3.89	246.00	247.36		247.40	0.001762	0.84	5.27	6.35	0.26
unico	952.991*	AVE 10	14.70	246.00	248.31		248.42	0.002689	1.57	13.14	12.18	0.35
unico	952.991*	AVE 50	31.01	246.00	249.35		249.47	0.001922	1.75	37.20	35.38	0.32
unico	952.991*	AVE 100	40.51	246.00	249.86		249.95	0.001368	1.63	56.14	39.55	0.27
unico	952.991*	AVE 500	65.91	246.00	250.58		250.67	0.001402	1.86	88.35	53.08	0.29
unico	949.4165	MCO	3.89	246.00	247.36		247.39	0.001341	0.78	5.72	6.51	0.23
unico	949.4165	AVE 10	14.70	246.00	248.31		248.41	0.002334	1.51	15.61	24.71	0.33
unico	949.4165	AVE 50	31.01	246.00	249.39		249.44	0.001020	1.31	56.26	44.46	0.23
unico	949.4165	AVE 100	40.51	246.00	249.89		249.93	0.000787	1.26	80.53	53.37	0.21

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	949.4165	AVE 500	65.91	246.00	250.61		250.65	0.000761	1.40	123.95	66.26	0.21
unico	945.805*	MCO	3.89	246.00	247.35		247.38	0.001292	0.80	5.82	6.78	0.23
unico	945.805*	AVE 10	14.70	246.00	248.30		248.40	0.002143	1.49	18.08	31.05	0.32
unico	945.805*	AVE 50	31.01	246.00	249.39		249.44	0.000927	1.28	62.81	52.88	0.23
unico	945.805*	AVE 100	40.51	246.00	249.89		249.92	0.000663	1.19	91.30	61.05	0.20
unico	945.805*	AVE 500	65.91	246.00	250.62		250.65	0.000593	1.27	137.86	66.92	0.19
unico	942.194*	MCO	3.89	246.00	247.35		247.38	0.001257	0.82	5.97	7.12	0.23
unico	942.194*	AVE 10	14.70	246.00	248.30		248.39	0.001905	1.46	21.44	34.56	0.31
unico	942.194*	AVE 50	31.01	246.00	249.40		249.43	0.000694	1.15	75.33	59.72	0.20
unico	942.194*	AVE 100	40.51	246.00	249.90		249.92	0.000482	1.05	105.62	62.65	0.17
unico	942.194*	AVE 500	65.91	246.00	250.62		250.64	0.000454	1.14	152.39	66.16	0.17
unico	938.5838	MCO	3.89	246.00	247.34		247.37	0.001238	0.85	6.19	7.79	0.24
unico	938.5838	AVE 10	14.70	246.00	248.31		248.38	0.001617	1.40	27.37	50.61	0.29
unico	938.5838	AVE 50	31.01	246.00	249.41		249.42	0.000455	0.96	90.71	60.41	0.17
unico	938.5838	AVE 100	40.51	246.00	249.90		249.91	0.000341	0.91	120.83	61.74	0.15
unico	938.5838	AVE 500	65.91	246.00	250.62		250.64	0.000353	1.04	166.86	65.45	0.15
unico	933.744*	MCO	3.89	246.01	247.33		247.37	0.001529	0.92	6.10	9.36	0.26
unico	933.744*	AVE 10	14.70	246.01	248.31		248.36	0.001472	1.32	30.96	49.85	0.28
unico	933.744*	AVE 50	31.01	246.01	249.41		249.42	0.000428	0.93	96.49	64.55	0.16
unico	933.744*	AVE 100	40.51	246.01	249.90		249.91	0.000316	0.87	128.75	66.25	0.14
unico	933.744*	AVE 500	65.91	246.01	250.62		250.64	0.000323	0.99	178.04	70.04	0.15
unico	928.905*	MCO	3.89	246.02	247.32		247.36	0.001868	0.99	6.18	11.28	0.29
unico	928.905*	AVE 10	14.70	246.02	248.31		248.35	0.001258	1.21	35.64	51.11	0.26
unico	928.905*	AVE 50	31.01	246.02	249.41		249.42	0.000392	0.88	102.74	67.50	0.15
unico	928.905*	AVE 100	40.51	246.02	249.90		249.91	0.000291	0.83	136.78	70.21	0.14
unico	928.905*	AVE 500	65.91	246.02	250.62		250.64	0.000296	0.94	189.10	74.37	0.14
unico	924.0662	MCO	3.89	246.03	247.30		247.35	0.002215	1.06	6.67	15.39	0.31
unico	924.0662	AVE 10	14.70	246.03	248.32		248.34	0.001051	1.10	40.87	53.84	0.24
unico	924.0662	AVE 50	31.01	246.03	249.41		249.42	0.000352	0.83	109.86	70.44	0.15
unico	924.0662	AVE 100	40.51	246.03	249.90		249.91	0.000263	0.79	145.29	73.23	0.13
unico	924.0662	AVE 500	65.91	246.03	250.62		250.63	0.000271	0.90	200.16	78.29	0.13
unico	919.827*	MCO	3.89	246.06	247.28		247.34	0.003210	1.17	6.06	15.67	0.36
unico	919.827*	AVE 10	14.70	246.06	248.32		248.34	0.001066	1.06	40.62	50.06	0.23
unico	919.827*	AVE 50	31.01	246.06	249.40		249.41	0.000382	0.84	104.75	65.96	0.15
unico	919.827*	AVE 100	40.51	246.06	249.90		249.91	0.000291	0.81	138.30	69.66	0.13
unico	919.827*	AVE 500	65.91	246.06	250.62		250.63	0.000301	0.93	190.65	75.25	0.14
unico	915.588*	MCO	3.89	246.08	247.25		247.32	0.005097	1.33	5.34	15.73	0.44
unico	915.588*	AVE 10	14.70	246.08	248.31		248.33	0.001055	1.01	40.61	46.44	0.23
unico	915.588*	AVE 50	31.01	246.08	249.40		249.41	0.000405	0.84	100.65	61.48	0.15
unico	915.588*	AVE 100	40.51	246.08	249.90		249.91	0.000316	0.82	132.03	65.69	0.14
unico	915.588*	AVE 500	65.91	246.08	250.62		250.63	0.000331	0.95	181.64	71.45	0.15
unico	911.3496	MCO	3.89	246.11	247.18		247.28	0.010900	1.66	4.05	14.31	0.62
unico	911.3496	AVE 10	14.70	246.11	248.31		248.33	0.001023	0.95	40.83	43.20	0.22
unico	911.3496	AVE 50	31.01	246.11	249.40		249.41	0.000429	0.83	97.16	58.04	0.15
unico	911.3496	AVE 100	40.51	246.11	249.90		249.90	0.000337	0.82	126.66	61.46	0.14
unico	911.3496	AVE 500	65.91	246.11	250.62		250.63	0.000361	0.96	173.30	67.66	0.15
unico	907.959*	MCO	3.89	246.09	247.13	246.89	247.25	0.010399	1.69	3.79	13.33	0.61
unico	907.959*	AVE 10	14.70	246.09	248.31		248.32	0.001004	0.97	40.09	41.76	0.22
unico	907.959*	AVE 50	31.01	246.09	249.40		249.41	0.000450	0.88	93.84	56.04	0.16
unico	907.959*	AVE 100	40.51	246.09	249.89		249.90	0.000357	0.86	122.54	60.05	0.15
unico	907.959*	AVE 500	65.91	246.09	250.62		250.63	0.000386	1.02	168.16	66.73	0.16
unico	904.568*	MCO	3.89	246.07	247.10	246.82	247.22	0.009061	1.66	3.74	13.02	0.58
unico	904.568*	AVE 10	14.70	246.07	248.30		248.32	0.000976	0.99	39.62	40.70	0.22
unico	904.568*	AVE 50	31.01	246.07	249.40		249.41	0.000457	0.91	91.31	53.65	0.16
unico	904.568*	AVE 100	40.51	246.07	249.89		249.90	0.000373	0.90	119.09	58.48	0.15
unico	904.568*	AVE 500	65.91	246.07	250.61		250.63	0.000401	1.06	163.46	64.47	0.16
unico	901.1777	MCO	3.89	246.04	247.07	246.74	247.19	0.007535	1.60	3.80	12.94	0.54
unico	901.1777	AVE 10	14.70	246.04	248.30		248.32	0.000943	1.01	39.40	40.00	0.22
unico	901.1777	AVE 50	31.01	246.04	249.39		249.41	0.000460	0.93	89.51	51.88	0.17
unico	901.1777	AVE 100	40.51	246.04	249.89		249.90	0.000380	0.93	116.29	56.42	0.15
unico	901.1777	AVE 500	65.91	246.04	250.61		250.63	0.000417	1.10	159.42	62.83	0.17
unico	896.672*	MCO	3.89	246.03	247.04		247.15	0.007011	1.58	3.42	5.08	0.53
unico	896.672*	AVE 10	14.70	246.03	248.26		248.31	0.001690	1.36	30.19	38.43	0.30
unico	896.672*	AVE 50	31.01	246.03	249.38		249.40	0.000621	1.09	78.43	48.93	0.19
unico	896.672*	AVE 100	40.51	246.03	249.88		249.90	0.000495	1.07	103.93	53.79	0.18
unico	896.672*	AVE 500	65.91	246.03	250.60		250.62	0.000528	1.25	145.30	60.93	0.19
unico	892.1675	MCO	3.89	246.02	247.01		247.12	0.006682	1.57	3.34	4.20	0.52
unico	892.1675	AVE 10	14.70	246.02	248.17		248.29	0.003436	1.92	19.81	32.04	0.42
unico	892.1675	AVE 50	31.01	246.02	249.37		249.40	0.000835	1.28	68.64	46.19	0.22

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	892.1675	AVE 100	40.51	246.02	249.87		249.89	0.000639	1.23	92.95	50.97	0.20
unico	892.1675	AVE 500	65.91	246.02	250.59		250.62	0.000660	1.40	132.32	58.25	0.21
unico	887.800*	MCO	3.89	246.02	246.96		247.09	0.008256	1.68	3.15	4.29	0.57
unico	887.800*	AVE 10	14.70	246.02	247.95		248.25	0.008124	2.74	9.44	9.88	0.64
unico	887.800*	AVE 50	31.01	246.02	249.31		249.39	0.001807	1.86	49.93	44.71	0.33
unico	887.800*	AVE 100	40.51	246.02	249.84		249.89	0.001117	1.62	74.95	49.70	0.27
unico	887.800*	AVE 500	65.91	246.02	250.57		250.61	0.001007	1.73	113.96	57.96	0.26
unico	883.434*	MCO	3.89	246.02	246.90		247.04	0.010977	1.84	2.90	4.21	0.65
unico	883.434*	AVE 10	14.70	246.02	247.86	247.52	248.21	0.009960	2.94	8.09	6.48	0.70
unico	883.434*	AVE 50	31.01	246.02	248.86	248.31	249.34	0.008325	3.61	17.18	12.70	0.69
unico	883.434*	AVE 100	40.51	246.02	249.74	249.11	249.87	0.002460	2.35	53.69	47.69	0.39
unico	883.434*	AVE 500	65.91	246.02	250.51		250.60	0.001687	2.22	93.85	56.54	0.34
unico	879.0676	MCO	3.89	246.02	246.72	246.68	246.97	0.025161	2.37	2.23	3.97	0.94
unico	879.0676	AVE 10	14.70	246.02	247.51	247.51	248.12	0.023326	3.87	5.84	5.38	1.03
unico	879.0676	AVE 50	31.01	246.02	248.31	248.31	249.24	0.020502	4.89	10.76	6.78	1.04
unico	879.0676	AVE 100	40.51	246.02	248.73	248.73	249.76	0.018812	5.25	13.75	7.68	1.03
unico	879.0676	AVE 500	65.91	246.02	250.34	250.03	250.58	0.003695	3.19	67.55	52.78	0.49
unico	874.139*	MCO	3.89	245.87	246.60	246.56	246.84	0.024938	2.35	2.22	4.02	0.93
unico	874.139*	AVE 10	14.70	245.87	247.30	247.37	247.98	0.028081	4.06	5.44	5.34	1.12
unico	874.139*	AVE 50	31.01	245.87	247.99	248.18	249.10	0.027806	5.33	9.59	6.58	1.19
unico	874.139*	AVE 100	40.51	245.87	248.33	248.57	249.63	0.026672	5.80	12.01	7.37	1.20
unico	874.139*	AVE 500	65.91	245.87	250.36	249.63	250.55	0.002993	2.93	73.30	54.34	0.45
unico	869.210*	MCO	3.89	245.72	246.47	246.44	246.72	0.025244	2.34	2.19	4.06	0.94
unico	869.210*	AVE 10	14.70	245.72	247.17	247.23	247.84	0.027533	4.00	5.48	5.48	1.11
unico	869.210*	AVE 50	31.01	245.72	247.80	248.03	248.96	0.029802	5.39	9.37	6.69	1.23
unico	869.210*	AVE 100	40.51	245.72	248.12	248.43	249.48	0.029597	5.93	11.59	7.46	1.25
unico	869.210*	AVE 500	65.91	245.72	249.48	249.48	250.45	0.012727	5.31	25.89	13.83	0.89
unico	864.282*	MCO	3.89	245.56	246.35	246.31	246.59	0.025064	2.32	2.18	4.10	0.93
unico	864.282*	AVE 10	14.70	245.56	247.04	247.11	247.70	0.027823	3.98	5.46	5.60	1.11
unico	864.282*	AVE 50	31.01	245.56	247.64	247.89	248.80	0.031164	5.41	9.25	6.84	1.25
unico	864.282*	AVE 100	40.51	245.56	247.93	248.26	249.33	0.031537	5.99	11.37	7.62	1.28
unico	864.282*	AVE 500	65.91	245.56	249.80	249.32	250.19	0.005512	3.76	54.61	50.99	0.59
unico	859.354*	MCO	3.89	245.41	246.22	246.19	246.47	0.025414	2.32	2.16	4.14	0.93
unico	859.354*	AVE 10	14.70	245.41	246.90	246.99	247.56	0.028173	3.96	5.45	5.74	1.11
unico	859.354*	AVE 50	31.01	245.41	247.49	247.75	248.65	0.031725	5.38	9.25	7.06	1.25
unico	859.354*	AVE 100	40.51	245.41	247.76	248.06	249.17	0.032964	6.00	11.27	7.84	1.30
unico	859.354*	AVE 500	65.91	245.41	248.98	248.98	250.08	0.015720	5.59	23.76	13.76	0.97
unico	854.425*	MCO	3.89	245.26	246.10	246.06	246.34	0.025370	2.30	2.15	4.17	0.92
unico	854.425*	AVE 10	14.70	245.26	246.76	246.86	247.42	0.028636	3.94	5.43	5.88	1.11
unico	854.425*	AVE 50	31.01	245.26	247.34	247.62	248.49	0.032316	5.36	9.26	7.32	1.25
unico	854.425*	AVE 100	40.51	245.26	247.60	247.92	249.00	0.034032	5.99	11.24	8.12	1.31
unico	854.425*	AVE 500	65.91	245.26	248.37	248.59	249.94	0.026917	6.56	18.61	10.99	1.23
unico	849.497*	MCO	3.89	245.11	245.97	245.95	246.22	0.025655	2.29	2.12	4.20	0.92
unico	849.497*	AVE 10	14.70	245.11	246.64	246.73	247.28	0.028084	3.88	5.49	6.09	1.09
unico	849.497*	AVE 50	31.01	245.11	247.20	247.49	248.33	0.032464	5.30	9.33	7.64	1.25
unico	849.497*	AVE 100	40.51	245.11	247.44	247.80	248.83	0.034513	5.94	11.32	8.51	1.31
unico	849.497*	AVE 500	65.91	245.11	248.11	248.43	249.78	0.030806	6.76	17.88	11.23	1.30
unico	844.569*	MCO	3.89	244.96	245.85	245.82	246.09	0.025738	2.27	2.11	4.22	0.92
unico	844.569*	AVE 10	14.70	244.96	246.50	246.60	247.14	0.028742	3.87	5.47	6.27	1.10
unico	844.569*	AVE 50	31.01	244.96	247.05	247.35	248.16	0.032450	5.24	9.46	8.06	1.24
unico	844.569*	AVE 100	40.51	244.96	247.29	247.66	248.64	0.034987	5.89	11.43	8.92	1.31
unico	844.569*	AVE 500	65.91	244.96	247.88	248.44	249.62	0.034135	6.89	17.50	11.71	1.35
unico	839.640*	MCO	3.89	244.81	245.72	245.69	245.96	0.025816	2.25	2.09	4.23	0.92
unico	839.640*	AVE 10	14.70	244.81	246.36	246.46	247.00	0.029013	3.84	5.50	6.51	1.09
unico	839.640*	AVE 50	31.01	244.81	246.90	247.18	248.00	0.033268	5.22	9.53	8.52	1.24
unico	839.640*	AVE 100	40.51	244.81	247.13	247.54	248.46	0.035360	5.83	11.61	9.51	1.31
unico	839.640*	AVE 500	65.91	244.81	247.67	248.33	249.44	0.036669	6.95	17.58	13.01	1.38
unico	834.712*	MCO	3.89	244.66	245.59	245.55	245.83	0.026198	2.24	2.07	4.22	0.92
unico	834.712*	AVE 10	14.70	244.66	246.23	246.34	246.86	0.028744	3.79	5.58	6.84	1.08
unico	834.712*	AVE 50	31.01	244.66	246.75	247.05	247.83	0.033680	5.17	9.71	9.22	1.24
unico	834.712*	AVE 100	40.51	244.66	246.97	247.39	248.28	0.036392	5.80	11.85	10.52	1.31
unico	834.712*	AVE 500	65.91	244.66	247.45	248.09	249.24	0.040206	7.04	17.80	15.01	1.43
unico	829.784*	MCO	3.89	244.50	245.47	245.42	245.70	0.025791	2.21	2.07	4.21	0.90
unico	829.784*	AVE 10	14.70	244.50	246.09	246.21	246.71	0.029531	3.78	5.60	7.24	1.09
unico	829.784*	AVE 50	31.01	244.50	246.60	246.91	247.65	0.034305	5.13	10.03	10.51	1.24
unico	829.784*	AVE 100	40.51	244.50	246.79	247.25	248.09	0.038227	5.81	12.19	12.18	1.33
unico	829.784*	AVE 500	65.91	244.50	247.18	247.81	249.03	0.045711	7.19	17.91	16.89	1.51
unico	824.855*	MCO	3.89	244.35	245.36	245.28	245.58	0.023848	2.14	2.14	4.19	0.87
unico	824.855*	AVE 10	14.70	244.35	245.95	246.08	246.57	0.030336	3.76	5.69	7.91	1.09

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	824.855*	AVE 50	31.01	244.35	246.42	246.77	247.47	0.036846	5.16	10.38	12.72	1.27
unico	824.855*	AVE 100	40.51	244.35	246.58	247.06	247.89	0.042337	5.88	12.58	14.71	1.39
unico	824.855*	AVE 500	65.91	244.35	246.90	247.49	248.78	0.053249	7.35	18.00	18.74	1.60
unico	819.927*	MCO	3.89	244.20	245.28	245.14	245.46	0.018664	1.97	2.36	4.62	0.77
unico	819.927*	AVE 10	14.70	244.20	245.79	245.95	246.41	0.032380	3.79	5.84	9.37	1.12
unico	819.927*	AVE 50	31.01	244.20	246.18	246.57	247.27	0.043258	5.31	10.58	15.12	1.36
unico	819.927*	AVE 100	40.51	244.20	246.32	246.76	247.66	0.050022	6.04	12.79	17.00	1.48
unico	819.927*	AVE 500	65.91	244.20	247.35	247.17	247.82	0.012610	4.17	34.15	23.01	0.80
unico	814.9991	MCO	3.89	244.05	245.24	245.00	245.38	0.011853	1.69	2.93	6.45	0.62
unico	814.9991	AVE 10	14.70	244.05	245.92	245.79	246.16	0.011334	2.55	11.01	17.57	0.68
unico	814.9991	AVE 50	31.01	244.05	246.54	246.27	246.77	0.008315	2.78	23.34	21.36	0.62
unico	814.9991	AVE 100	40.51	244.05	246.83	246.44	247.05	0.007643	2.90	29.57	22.66	0.61
unico	814.9991	AVE 500	65.91	244.05	247.47	246.83	247.71	0.006402	3.13	44.84	24.22	0.58
unico	810.287*	MCO	3.89	244.02	245.20		245.32	0.010772	1.58	2.93	6.55	0.59
unico	810.287*	AVE 10	14.70	244.02	245.90		246.10	0.009311	2.31	11.78	18.82	0.62
unico	810.287*	AVE 50	31.01	244.02	246.53		246.72	0.006670	2.50	25.24	22.57	0.56
unico	810.287*	AVE 100	40.51	244.02	246.82		247.01	0.006136	2.61	31.85	23.64	0.54
unico	810.287*	AVE 500	65.91	244.02	247.47		247.67	0.005360	2.87	47.81	25.79	0.53
unico	805.5759	MCO	3.89	244.00	245.15		245.27	0.010192	1.50	2.89	6.49	0.57
unico	805.5759	AVE 10	14.70	244.00	245.88		246.05	0.007998	2.13	12.48	20.02	0.57
unico	805.5759	AVE 50	31.01	244.00	246.53		246.68	0.005576	2.28	27.20	24.01	0.50
unico	805.5759	AVE 100	40.51	244.00	246.81		246.97	0.005141	2.38	34.27	25.04	0.49
unico	805.5759	AVE 500	65.91	244.00	247.46		247.64	0.004489	2.62	51.25	27.01	0.48
unico	801.096*	MCO	3.89	244.00	245.14		245.22	0.006313	1.29	3.37	6.46	0.46
unico	801.096*	AVE 10	14.70	244.00	245.85		246.02	0.006783	2.05	12.54	19.30	0.53
unico	801.096*	AVE 50	31.01	244.00	246.48		246.66	0.005438	2.32	26.61	24.17	0.51
unico	801.096*	AVE 100	40.51	244.00	246.78		246.95	0.005007	2.42	33.87	25.49	0.50
unico	801.096*	AVE 500	65.91	244.00	247.43		247.62	0.004476	2.68	51.51	29.48	0.49
unico	796.6166	MCO	3.89	244.01	245.13		245.19	0.004038	1.11	3.93	6.59	0.38
unico	796.6166	AVE 10	14.70	244.01	245.83		245.99	0.005692	1.95	12.85	18.89	0.49
unico	796.6166	AVE 50	31.01	244.01	246.46		246.63	0.004978	2.27	27.14	25.09	0.49
unico	796.6166	AVE 100	40.51	244.01	246.76		246.93	0.004638	2.38	34.80	27.14	0.48
unico	796.6166	AVE 500	65.91	244.01	247.42		247.60	0.003968	2.58	53.95	30.29	0.46
unico	792.093*	MCO	3.89	244.03	245.11		245.17	0.004730	1.18	3.80	6.42	0.42
unico	792.093*	AVE 10	14.70	244.03	245.79		245.96	0.006304	2.03	12.25	18.33	0.53
unico	792.093*	AVE 50	31.01	244.03	246.42		246.61	0.005316	2.36	26.44	25.63	0.52
unico	792.093*	AVE 100	40.51	244.03	246.72		246.91	0.004783	2.45	34.53	28.06	0.50
unico	792.093*	AVE 500	65.91	244.03	247.40		247.58	0.003914	2.61	54.76	31.87	0.47
unico	787.5697	MCO	3.89	244.06	245.07		245.15	0.005980	1.26	3.65	6.18	0.47
unico	787.5697	AVE 10	14.70	244.06	245.74		245.93	0.007387	2.14	11.60	17.75	0.58
unico	787.5697	AVE 50	31.01	244.06	246.39		246.58	0.005546	2.40	26.31	25.96	0.53
unico	787.5697	AVE 100	40.51	244.06	246.70		246.89	0.004899	2.47	34.69	28.85	0.51
unico	787.5697	AVE 500	65.91	244.06	247.38		247.56	0.003864	2.60	56.32	33.93	0.47
unico	783.165*	MCO	3.89	244.03	245.07		245.12	0.003457	1.08	4.42	6.44	0.37
unico	783.165*	AVE 10	14.70	244.03	245.72		245.89	0.005798	2.02	12.69	18.80	0.52
unico	783.165*	AVE 50	31.01	244.03	246.39		246.56	0.004611	2.29	28.96	29.04	0.49
unico	783.165*	AVE 100	40.51	244.03	246.70		246.86	0.004007	2.33	38.50	31.77	0.47
unico	783.165*	AVE 500	65.91	244.03	247.38		247.54	0.003247	2.46	62.07	37.68	0.44
unico	778.7605	MCO	3.89	244.01	245.06		245.11	0.002247	0.96	5.17	6.80	0.30
unico	778.7605	AVE 10	14.70	244.01	245.71		245.86	0.004747	1.93	13.98	21.44	0.48
unico	778.7605	AVE 50	31.01	244.01	246.39		246.53	0.003588	2.11	33.43	32.63	0.44
unico	778.7605	AVE 100	40.51	244.01	246.70		246.83	0.003146	2.15	44.08	35.28	0.42
unico	778.7605	AVE 500	65.91	244.01	247.39		247.51	0.002544	2.25	70.24	40.36	0.39
unico	774.366*	MCO	3.89	244.05	245.04		245.09	0.003408	1.06	5.04	9.11	0.36
unico	774.366*	AVE 10	14.70	244.05	245.71		245.83	0.004845	1.85	15.99	25.66	0.48
unico	774.366*	AVE 50	31.01	244.05	246.40		246.50	0.003174	1.92	37.11	34.36	0.41
unico	774.366*	AVE 100	40.51	244.05	246.71		246.81	0.002789	1.96	48.35	37.41	0.39
unico	774.366*	AVE 500	65.91	244.05	247.40		247.50	0.002435	2.15	76.37	47.66	0.38
unico	769.973*	MCO	3.89	244.08	245.02		245.08	0.004887	1.12	5.23	11.18	0.42
unico	769.973*	AVE 10	14.70	244.08	245.72		245.80	0.004374	1.66	18.77	28.08	0.44
unico	769.973*	AVE 50	31.01	244.08	246.41		246.48	0.002819	1.74	42.01	39.49	0.38
unico	769.973*	AVE 100	40.51	244.08	246.72		246.79	0.002587	1.82	55.57	48.73	0.37
unico	769.973*	AVE 500	65.91	244.08	247.42		247.48	0.001753	1.78	93.96	58.00	0.32
unico	765.5794	MCO	3.89	244.12	245.01		245.05	0.006360	1.10	5.64	12.53	0.46
unico	765.5794	AVE 10	14.70	244.12	245.72		245.78	0.004068	1.49	22.71	37.47	0.42
unico	765.5794	AVE 50	31.01	244.12	246.42		246.46	0.001807	1.33	56.17	50.89	0.30
unico	765.5794	AVE 100	40.51	244.12	246.74		246.77	0.001468	1.33	72.39	52.36	0.28
unico	765.5794	AVE 500	65.91	244.12	247.43		247.46	0.001143	1.39	109.94	56.31	0.26
unico	762.525*	MCO	3.89	244.09	245.00		245.03	0.003925	0.91	7.27	16.42	0.37

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	762.525*	AVE 10	14.70	244.09	245.72		245.76	0.002597	1.23	26.85	39.07	0.34
unico	762.525*	AVE 50	31.01	244.09	246.42		246.45	0.001433	1.21	60.20	51.22	0.27
unico	762.525*	AVE 100	40.51	244.09	246.74		246.77	0.001226	1.23	76.58	53.32	0.26
unico	762.525*	AVE 500	65.91	244.09	247.43		247.46	0.001005	1.32	115.02	58.14	0.24
unico	759.4719	MCO	3.89	244.06	245.00		245.02	0.002102	0.70	9.58	18.97	0.27
unico	759.4719	AVE 10	14.70	244.06	245.72		245.75	0.001749	1.04	30.88	40.05	0.28
unico	759.4719	AVE 50	31.01	244.06	246.42		246.45	0.001166	1.11	64.22	51.98	0.25
unico	759.4719	AVE 100	40.51	244.06	246.73		246.76	0.001042	1.16	80.98	54.97	0.24
unico	759.4719	AVE 500	65.91	244.06	247.43		247.45	0.000866	1.25	120.78	59.24	0.23
unico	754.955*	MCO	3.89	244.03	245.00		245.01	0.001184	0.61	11.12	20.39	0.21
unico	754.955*	AVE 10	14.70	244.03	245.71		245.74	0.001357	0.99	31.95	38.58	0.25
unico	754.955*	AVE 50	31.01	244.03	246.41		246.44	0.001055	1.11	62.07	46.80	0.24
unico	754.955*	AVE 100	40.51	244.03	246.73		246.76	0.000974	1.17	76.98	48.48	0.23
unico	754.955*	AVE 500	65.91	244.03	247.41		247.45	0.000953	1.35	113.31	58.75	0.24
unico	750.4394	MCO	3.89	244.00	244.99		245.00	0.000679	0.52	12.24	18.22	0.17
unico	750.4394	AVE 10	14.70	244.00	245.71		245.74	0.001130	0.96	32.00	37.82	0.23
unico	750.4394	AVE 50	31.01	244.00	246.41		246.44	0.000944	1.10	63.93	50.26	0.23
unico	750.4394	AVE 100	40.51	244.00	246.72		246.75	0.000881	1.15	80.15	53.11	0.22
unico	750.4394	AVE 500	65.91	244.00	247.41		247.44	0.000780	1.26	118.39	56.87	0.22
unico	746.912*	MCO	3.89	244.02	244.99		245.00	0.000873	0.55	11.19	17.11	0.19
unico	746.912*	AVE 10	14.70	244.02	245.70		245.73	0.001400	1.03	28.05	31.76	0.26
unico	746.912*	AVE 50	31.01	244.02	246.39		246.43	0.001256	1.24	55.04	44.62	0.26
unico	746.912*	AVE 100	40.51	244.02	246.70		246.75	0.001168	1.30	69.65	48.13	0.26
unico	746.912*	AVE 500	65.91	244.02	247.39		247.44	0.001037	1.43	105.01	54.55	0.25
unico	743.385*	MCO	3.89	244.03	244.98		245.00	0.001154	0.60	10.20	16.40	0.21
unico	743.385*	AVE 10	14.70	244.03	245.69		245.73	0.001657	1.08	25.59	28.03	0.28
unico	743.385*	AVE 50	31.01	244.03	246.38		246.43	0.001527	1.33	49.30	39.39	0.28
unico	743.385*	AVE 100	40.51	244.03	246.69		246.74	0.001444	1.41	62.23	43.29	0.28
unico	743.385*	AVE 500	65.91	244.03	247.38		247.43	0.001271	1.56	94.23	49.30	0.28
unico	739.8587	MCO	3.89	244.04	244.98		244.99	0.001574	0.66	9.22	15.88	0.24
unico	739.8587	AVE 10	14.70	244.04	245.68		245.72	0.001968	1.14	23.79	26.19	0.30
unico	739.8587	AVE 50	31.01	244.04	246.37		246.42	0.001783	1.40	45.46	35.84	0.31
unico	739.8587	AVE 100	40.51	244.04	246.68		246.74	0.001693	1.50	57.11	39.22	0.30
unico	739.8587	AVE 500	65.91	244.04	247.36		247.43	0.001507	1.66	86.41	45.52	0.30
unico	734.880*	MCO	3.89	244.09	244.96		244.98	0.002055	0.71	8.17	14.05	0.27
unico	734.880*	AVE 10	14.70	244.09	245.65		245.71	0.002568	1.26	20.10	21.48	0.34
unico	734.880*	AVE 50	31.01	244.09	246.33		246.41	0.002466	1.61	37.81	30.20	0.36
unico	734.880*	AVE 100	40.51	244.09	246.64		246.72	0.002352	1.72	47.54	32.89	0.36
unico	734.880*	AVE 500	65.91	244.09	247.32		247.42	0.002141	1.94	71.73	38.70	0.36
unico	729.902*	MCO	3.89	244.13	244.95		244.97	0.002809	0.79	7.21	12.81	0.31
unico	729.902*	AVE 10	14.70	244.13	245.62		245.69	0.003408	1.40	17.34	18.36	0.39
unico	729.902*	AVE 50	31.01	244.13	246.29		246.39	0.003300	1.81	32.08	25.94	0.41
unico	729.902*	AVE 100	40.51	244.13	246.59		246.71	0.003198	1.96	40.40	28.63	0.41
unico	729.902*	AVE 500	65.91	244.13	247.27		247.40	0.002870	2.21	61.44	33.40	0.41
unico	724.924*	MCO	3.89	244.17	244.92		244.95	0.004121	0.88	6.23	11.72	0.37
unico	724.924*	AVE 10	14.70	244.17	245.59		245.67	0.004584	1.56	15.00	15.39	0.45
unico	724.924*	AVE 50	31.01	244.17	246.24		246.37	0.004418	2.03	27.55	22.51	0.47
unico	724.924*	AVE 100	40.51	244.17	246.54		246.68	0.004238	2.19	34.71	25.05	0.47
unico	724.924*	AVE 500	65.91	244.17	247.20		247.38	0.003911	2.51	52.90	29.66	0.47
unico	719.9458	MCO	3.89	244.21	244.89		244.92	0.006810	1.03	5.18	10.74	0.47
unico	719.9458	AVE 10	14.70	244.21	245.53		245.64	0.006497	1.75	12.88	13.15	0.52
unico	719.9458	AVE 50	31.01	244.21	246.15		246.34	0.006582	2.36	23.00	19.97	0.57
unico	719.9458	AVE 100	40.51	244.21	246.44		246.65	0.006228	2.54	29.20	22.49	0.57
unico	719.9458	AVE 500	65.91	244.21	247.11		247.35	0.005330	2.84	45.57	26.28	0.55
unico	715.868*	MCO	3.89	244.18	244.86		244.90	0.006562	1.03	5.20	11.01	0.46
unico	715.868*	AVE 10	14.70	244.18	245.51		245.61	0.006021	1.71	13.34	14.29	0.51
unico	715.868*	AVE 50	31.01	244.18	246.14		246.31	0.005815	2.24	23.93	19.66	0.54
unico	715.868*	AVE 100	40.51	244.18	246.43		246.62	0.005476	2.41	30.03	21.17	0.53
unico	715.868*	AVE 500	65.91	244.18	247.09		247.33	0.005088	2.79	45.25	25.64	0.54
unico	711.792*	MCO	3.89	244.15	244.83		244.87	0.005916	1.01	5.36	11.36	0.44
unico	711.792*	AVE 10	14.70	244.15	245.49		245.59	0.005382	1.65	14.03	15.34	0.48
unico	711.792*	AVE 50	31.01	244.15	246.13		246.28	0.005020	2.12	25.18	19.59	0.50
unico	711.792*	AVE 100	40.51	244.15	246.42		246.60	0.004831	2.30	31.27	21.24	0.50
unico	711.792*	AVE 500	65.91	244.15	247.09		247.30	0.004466	2.64	46.20	23.87	0.51
unico	707.715*	MCO	3.89	244.11	244.81		244.85	0.005057	0.96	5.65	11.86	0.41
unico	707.715*	AVE 10	14.70	244.11	245.48		245.56	0.004650	1.56	14.91	16.15	0.45
unico	707.715*	AVE 50	31.01	244.11	246.12		246.25	0.004335	1.99	26.59	19.92	0.47
unico	707.715*	AVE 100	40.51	244.11	246.42		246.57	0.004213	2.17	32.76	21.35	0.47
unico	707.715*	AVE 500	65.91	244.11	247.08		247.28	0.003968	2.52	47.81	23.75	0.48

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	703.638*	MCO	3.89	244.08	244.80		244.83	0.004094	0.90	6.10	12.51	0.37
unico	703.638*	AVE 10	14.70	244.08	245.47		245.54	0.003909	1.46	16.01	16.88	0.41
unico	703.638*	AVE 50	31.01	244.08	246.11		246.23	0.003725	1.88	28.15	20.35	0.43
unico	703.638*	AVE 100	40.51	244.08	246.41		246.55	0.003653	2.05	34.45	21.60	0.44
unico	703.638*	AVE 500	65.91	244.08	247.08		247.26	0.003528	2.40	49.71	24.01	0.45
unico	699.5614	MCO	3.89	244.05	244.78		244.81	0.003156	0.82	6.76	13.31	0.33
unico	699.5614	AVE 10	14.70	244.05	245.46		245.52	0.003228	1.35	17.31	17.57	0.38
unico	699.5614	AVE 50	31.01	244.05	246.11		246.21	0.003185	1.76	29.86	20.79	0.40
unico	699.5614	AVE 100	40.51	244.05	246.41		246.53	0.003161	1.93	36.30	21.95	0.41
unico	699.5614	AVE 500	65.91	244.05	247.08		247.24	0.003137	2.29	51.78	24.41	0.43
unico	696.903*	MCO	3.89	244.06	244.77		244.80	0.003492	0.87	6.60	13.13	0.35
unico	696.903*	AVE 10	14.70	244.06	245.45		245.52	0.003558	1.42	17.30	18.49	0.40
unico	696.903*	AVE 50	31.01	244.06	246.10		246.21	0.003313	1.80	30.43	21.42	0.41
unico	696.903*	AVE 100	40.51	244.06	246.40		246.52	0.003276	1.97	37.11	22.76	0.42
unico	696.903*	AVE 500	65.91	244.06	247.07		247.23	0.003221	2.32	53.33	25.66	0.43
unico	694.2456	MCO	3.89	244.06	244.76		244.79	0.003754	0.90	6.60	13.15	0.36
unico	694.2456	AVE 10	14.70	244.06	245.44		245.51	0.003795	1.47	17.56	19.41	0.41
unico	694.2456	AVE 50	31.01	244.06	246.10		246.20	0.003390	1.83	31.20	21.89	0.42
unico	694.2456	AVE 100	40.51	244.06	246.40		246.51	0.003359	2.00	38.05	23.38	0.42
unico	694.2456	AVE 500	65.91	244.06	247.07		247.22	0.003332	2.37	54.90	27.05	0.44
unico	689.349*	MCO	3.89	244.04	244.73		244.77	0.004280	0.98	5.76	11.15	0.39
unico	689.349*	AVE 10	14.70	244.04	245.38		245.48	0.004836	1.65	14.62	15.96	0.46
unico	689.349*	AVE 50	31.01	244.04	246.03		246.17	0.004562	2.10	26.23	19.71	0.48
unico	689.349*	AVE 100	40.51	244.04	246.33		246.49	0.004438	2.28	32.30	20.96	0.49
unico	689.349*	AVE 500	65.91	244.04	246.98		247.20	0.004351	2.68	47.28	24.72	0.50
unico	684.452*	MCO	3.89	244.02	244.71		244.75	0.004557	1.02	5.21	9.79	0.40
unico	684.452*	AVE 10	14.70	244.02	245.32		245.45	0.006004	1.82	12.47	13.71	0.52
unico	684.452*	AVE 50	31.01	244.02	245.94		246.14	0.006044	2.38	22.02	17.30	0.55
unico	684.452*	AVE 100	40.51	244.02	246.23		246.46	0.005970	2.60	27.23	18.92	0.56
unico	684.452*	AVE 500	65.91	244.02	246.86		247.16	0.005837	3.05	40.43	22.99	0.58
unico	679.5561	MCO	3.89	244.00	244.68		244.73	0.004608	1.04	4.85	8.76	0.41
unico	679.5561	AVE 10	14.70	244.00	245.25		245.42	0.007464	2.00	10.74	12.13	0.57
unico	679.5561	AVE 50	31.01	244.00	245.82		246.10	0.008050	2.67	18.82	16.11	0.63
unico	679.5561	AVE 100	40.51	244.00	246.11		246.42	0.007826	2.90	23.62	17.95	0.64
unico	679.5561	AVE 500	65.91	244.00	246.75		247.12	0.007105	3.30	36.59	22.34	0.64
unico	674.699*	MCO	3.89	243.57	244.69		244.71	0.001071	0.66	7.51	10.00	0.21
unico	674.699*	AVE 10	14.70	243.57	245.28		245.37	0.002874	1.46	14.49	13.80	0.37
unico	674.699*	AVE 50	31.01	243.57	245.87		246.04	0.003864	2.09	23.81	17.91	0.45
unico	674.699*	AVE 100	40.51	243.57	246.15		246.36	0.004076	2.33	29.14	19.86	0.47
unico	674.699*	AVE 500	65.91	243.57	246.79		247.07	0.004302	2.78	43.71	26.03	0.50
unico	669.8423	MCO	3.89	243.14	244.69		244.70	0.000391	0.47	10.43	11.39	0.13
unico	669.8423	AVE 10	14.70	243.14	245.30		245.35	0.001395	1.14	18.41	15.36	0.26
unico	669.8423	AVE 50	31.01	243.14	245.89		246.01	0.002169	1.70	28.86	19.53	0.34
unico	669.8423	AVE 100	40.51	243.14	246.18		246.33	0.002447	1.94	34.75	22.32	0.37
unico	669.8423	AVE 500	65.91	243.14	246.83		247.03	0.002768	2.37	51.80	30.20	0.41
unico	665.271*	MCO	3.89	243.09	244.69		244.70	0.000438	0.52	9.69	10.15	0.14
unico	665.271*	AVE 10	14.70	243.09	245.27		245.34	0.001709	1.28	16.67	14.01	0.29
unico	665.271*	AVE 50	31.01	243.09	245.84		246.00	0.002792	1.94	25.87	18.13	0.39
unico	665.271*	AVE 100	40.51	243.09	246.12		246.31	0.003131	2.20	31.15	20.13	0.42
unico	665.271*	AVE 500	65.91	243.09	246.74		247.01	0.003692	2.73	45.48	26.80	0.47
unico	660.700*	MCO	3.89	243.05	244.68		244.70	0.000517	0.57	8.97	9.11	0.15
unico	660.700*	AVE 10	14.70	243.05	245.24		245.33	0.002220	1.47	14.93	12.77	0.33
unico	660.700*	AVE 50	31.01	243.05	245.77		245.98	0.003890	2.28	22.79	16.95	0.46
unico	660.700*	AVE 100	40.51	243.05	246.03		246.28	0.004435	2.60	27.42	19.02	0.50
unico	660.700*	AVE 500	65.91	243.05	246.63		246.98	0.005077	3.17	40.41	24.46	0.55
unico	656.1290	MCO	3.89	243.00	244.68		244.70	0.000679	0.66	8.18	8.34	0.17
unico	656.1290	AVE 10	14.70	243.00	245.19		245.32	0.003203	1.74	13.11	11.42	0.39
unico	656.1290	AVE 50	31.01	243.00	245.63		245.94	0.006525	2.83	18.94	15.40	0.58
unico	656.1290	AVE 100	40.51	243.00	245.83		246.24	0.007899	3.29	22.30	17.26	0.64
unico	656.1290	AVE 500	65.91	243.00	246.36		246.93	0.009329	4.04	32.89	22.81	0.72
unico	651.158*	MCO	3.89	243.00	244.67		244.69	0.000649	0.64	8.25	8.30	0.17
unico	651.158*	AVE 10	14.70	243.00	245.18		245.30	0.003108	1.70	13.07	11.41	0.39
unico	651.158*	AVE 50	31.01	243.00	245.59		245.91	0.006517	2.80	18.68	15.56	0.58
unico	651.158*	AVE 100	40.51	243.00	245.78		246.20	0.008074	3.28	21.82	17.49	0.65
unico	651.158*	AVE 500	65.91	243.00	246.31	246.03	246.88	0.009417	4.01	32.49	23.23	0.73
unico	646.187*	MCO	3.89	243.00	244.67		244.69	0.000621	0.62	8.37	8.28	0.16
unico	646.187*	AVE 10	14.70	243.00	245.16		245.28	0.003037	1.66	13.04	11.38	0.38
unico	646.187*	AVE 50	31.01	243.00	245.56		245.88	0.006564	2.77	18.42	15.74	0.58
unico	646.187*	AVE 100	40.51	243.00	245.74		246.16	0.008306	3.27	21.33	17.70	0.66
unico	646.187*	AVE 500	65.91	243.00	246.25	246.02	246.84	0.009638	3.99	32.01	23.68	0.73

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	641.2164	MCO	3.89	243.00	244.67		244.69	0.000600	0.60	8.50	8.34	0.16
unico	641.2164	AVE 10	14.70	243.00	245.15		245.27	0.002988	1.63	13.01	11.32	0.38
unico	641.2164	AVE 50	31.01	243.00	245.53		245.85	0.006669	2.75	18.15	15.98	0.58
unico	641.2164	AVE 100	40.51	243.00	245.68	245.25	246.12	0.008713	3.28	20.73	17.87	0.67
unico	641.2164	AVE 500	65.91	243.00	246.00	246.00	246.76	0.013584	4.44	26.98	21.61	0.86
unico	636.819*	MCO	3.89	243.00	244.67		244.68	0.000549	0.57	8.97	8.92	0.15
unico	636.819*	AVE 10	14.70	243.00	245.15		245.25	0.002702	1.55	13.92	12.28	0.36
unico	636.819*	AVE 50	31.01	243.00	245.53		245.81	0.005979	2.60	19.41	17.01	0.55
unico	636.819*	AVE 100	40.51	243.00	245.68		246.07	0.007755	3.10	22.22	18.99	0.64
unico	636.819*	AVE 500	65.91	243.00	245.96	245.90	246.67	0.012888	4.30	28.01	22.69	0.84
unico	632.423*	MCO	3.89	243.00	244.67		244.68	0.000501	0.55	9.51	9.57	0.15
unico	632.423*	AVE 10	14.70	243.00	245.14		245.24	0.002433	1.47	14.85	12.93	0.34
unico	632.423*	AVE 50	31.01	243.00	245.52		245.77	0.005394	2.48	20.72	18.16	0.53
unico	632.423*	AVE 100	40.51	243.00	245.68		246.03	0.006970	2.94	23.76	20.32	0.61
unico	632.423*	AVE 500	65.91	243.00	245.97	245.81	246.59	0.011407	4.06	30.22	24.71	0.79
unico	628.026*	MCO	3.89	243.00	244.67		244.68	0.000458	0.52	10.14	10.50	0.14
unico	628.026*	AVE 10	14.70	243.00	245.14		245.22	0.002217	1.40	15.80	13.90	0.33
unico	628.026*	AVE 50	31.01	243.00	245.52		245.74	0.004900	2.36	22.10	19.55	0.50
unico	628.026*	AVE 100	40.51	243.00	245.68		245.99	0.006322	2.80	25.39	22.07	0.58
unico	628.026*	AVE 500	65.91	243.00	245.98	245.74	246.52	0.010081	3.83	32.76	27.15	0.74
unico	623.6300	MCO	3.89	243.00	244.66		244.67	0.000413	0.50	10.85	11.20	0.13
unico	623.6300	AVE 10	14.70	243.00	245.14		245.21	0.002031	1.34	16.79	15.03	0.31
unico	623.6300	AVE 50	31.01	243.00	245.51		245.72	0.004476	2.25	23.62	21.44	0.48
unico	623.6300	AVE 100	40.51	243.00	245.67		245.95	0.005728	2.67	27.28	24.29	0.55
unico	623.6300	AVE 500	65.91	243.00	245.99	245.69	246.46	0.008797	3.59	35.82	29.91	0.70
unico	619.176*	MCO	3.89	243.00	244.66		244.67	0.000297	0.44	12.60	12.53	0.12
unico	619.176*	AVE 10	14.70	243.00	245.14		245.20	0.001500	1.19	19.97	19.23	0.27
unico	619.176*	AVE 50	31.01	243.00	245.54		245.68	0.003072	1.92	28.75	24.92	0.40
unico	619.176*	AVE 100	40.51	243.00	245.71		245.90	0.003860	2.26	33.33	27.89	0.46
unico	619.176*	AVE 500	65.91	243.00	246.07		246.38	0.005555	2.97	44.40	33.26	0.56
unico	614.722*	MCO	3.89	243.00	244.66		244.67	0.000221	0.39	14.73	15.62	0.10
unico	614.722*	AVE 10	14.70	243.00	245.15		245.19	0.001059	1.02	24.05	22.40	0.23
unico	614.722*	AVE 50	31.01	243.00	245.56		245.66	0.002170	1.66	34.22	28.04	0.34
unico	614.722*	AVE 100	40.51	243.00	245.74		245.87	0.002715	1.95	39.55	30.98	0.39
unico	614.722*	AVE 500	65.91	243.00	246.11		246.33	0.003866	2.55	52.07	35.52	0.47
unico	610.268*	MCO	3.89	243.00	244.66		244.67	0.000158	0.34	17.74	19.57	0.09
unico	610.268*	AVE 10	14.70	243.00	245.15		245.18	0.000744	0.88	28.56	24.29	0.20
unico	610.268*	AVE 50	31.01	243.00	245.57		245.64	0.001572	1.44	39.99	30.89	0.29
unico	610.268*	AVE 100	40.51	243.00	245.75		245.85	0.001943	1.69	45.92	32.79	0.33
unico	610.268*	AVE 500	65.91	243.00	246.14		246.30	0.002841	2.23	59.37	37.50	0.41
unico	605.8145	MCO	3.89	243.01	244.67		244.67	0.000110	0.29	21.54	22.31	0.07
unico	605.8145	AVE 10	14.70	243.01	245.15		245.18	0.000542	0.77	33.38	27.04	0.17
unico	605.8145	AVE 50	31.01	243.01	245.57		245.63	0.001146	1.26	46.04	32.63	0.25
unico	605.8145	AVE 100	40.51	243.01	245.76		245.83	0.001431	1.48	52.34	34.26	0.29
unico	605.8145	AVE 500	65.91	243.01	246.15		246.28	0.002180	1.99	66.60	39.94	0.36
unico	600.999*	MCO	3.89	243.14	244.66		244.67	0.000133	0.29	21.95	22.84	0.08
unico	600.999*	AVE 10	14.70	243.14	245.15		245.17	0.000609	0.77	33.93	27.10	0.18
unico	600.999*	AVE 50	31.01	243.14	245.57		245.62	0.001268	1.26	46.48	32.77	0.26
unico	600.999*	AVE 100	40.51	243.14	245.76		245.83	0.001585	1.48	52.83	35.24	0.30
unico	600.999*	AVE 500	65.91	243.14	246.15		246.26	0.002354	1.98	67.67	41.53	0.37
unico	596.184*	MCO	3.89	243.28	244.66		244.67	0.000155	0.29	22.40	23.43	0.08
unico	596.184*	AVE 10	14.70	243.28	245.15		245.17	0.000669	0.75	34.72	27.84	0.18
unico	596.184*	AVE 50	31.01	243.28	245.57		245.61	0.001383	1.24	47.86	35.41	0.27
unico	596.184*	AVE 100	40.51	243.28	245.75		245.82	0.001701	1.46	54.76	38.46	0.30
unico	596.184*	AVE 500	65.91	243.28	246.14		246.25	0.002441	1.93	71.18	45.99	0.37
unico	591.37*	MCO	3.89	243.41	244.66		244.67	0.000172	0.27	23.06	24.91	0.08
unico	591.37*	AVE 10	14.70	243.41	245.15		245.16	0.000709	0.72	36.82	32.66	0.18
unico	591.37*	AVE 50	31.01	243.41	245.57		245.60	0.001375	1.17	52.39	42.04	0.26
unico	591.37*	AVE 100	40.51	243.41	245.76		245.80	0.001656	1.36	60.68	45.89	0.30
unico	591.37*	AVE 500	65.91	243.41	246.15		246.23	0.002231	1.77	80.35	53.22	0.35
unico	586.5552	MCO	3.89	243.55	244.66		244.67	0.000174	0.24	25.56	33.45	0.08
unico	586.5552	AVE 10	14.70	243.55	245.15		245.16	0.000612	0.61	44.73	44.03	0.17
unico	586.5552	AVE 50	31.01	243.55	245.57		245.59	0.001059	0.96	64.52	49.72	0.23
unico	586.5552	AVE 100	40.51	243.55	245.76		245.79	0.001252	1.12	74.27	52.57	0.25
unico	586.5552	AVE 500	65.91	243.55	246.17		246.21	0.001660	1.45	96.66	58.63	0.30
unico	581.731*	MCO	3.89	243.74	244.66		244.66	0.000333	0.30	21.94	35.55	0.11
unico	581.731*	AVE 10	14.70	243.74	245.15		245.16	0.000893	0.69	42.20	47.23	0.20
unico	581.731*	AVE 50	31.01	243.74	245.57		245.59	0.001304	1.01	63.46	53.09	0.25
unico	581.731*	AVE 100	40.51	243.74	245.76		245.78	0.001456	1.15	73.81	55.38	0.27

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	581.731*	AVE 500	65.91	243.74	246.16		246.20	0.001756	1.44	96.76	58.60	0.31
unico	576.907*	MCO	3.89	243.93	244.66		244.66	0.000812	0.42	17.50	37.24	0.17
unico	576.907*	AVE 10	14.70	243.93	245.14		245.15	0.001427	0.81	38.92	51.57	0.25
unico	576.907*	AVE 50	31.01	243.93	245.56		245.58	0.001661	1.08	61.79	56.63	0.28
unico	576.907*	AVE 100	40.51	243.93	245.75		245.78	0.001751	1.20	72.80	58.57	0.29
unico	576.907*	AVE 500	65.91	243.93	246.15		246.19	0.001967	1.46	97.00	61.64	0.32
unico	572.0838	MCO	3.89	244.11	244.65		244.65	0.002603	0.64	12.41	35.84	0.29
unico	572.0838	AVE 10	14.70	244.11	245.12		245.14	0.002421	0.96	34.90	55.40	0.31
unico	572.0838	AVE 50	31.01	244.11	245.55		245.57	0.002180	1.17	59.47	60.30	0.32
unico	572.0838	AVE 100	40.51	244.11	245.74		245.77	0.002169	1.27	71.24	62.45	0.32
unico	572.0838	AVE 500	65.91	244.11	246.14		246.18	0.002251	1.50	97.21	66.09	0.34
unico	568.179*	MCO	3.89	244.08	244.62		244.64	0.004067	0.82	9.65	30.00	0.36
unico	568.179*	AVE 10	14.70	244.08	245.10		245.13	0.003559	1.19	28.18	46.74	0.38
unico	568.179*	AVE 50	31.01	244.08	245.52		245.56	0.003265	1.44	49.81	55.71	0.39
unico	568.179*	AVE 100	40.51	244.08	245.71		245.76	0.003190	1.55	60.84	59.47	0.39
unico	568.179*	AVE 500	65.91	244.08	246.11		246.17	0.003112	1.78	85.68	63.96	0.40
unico	564.274*	MCO	3.89	244.04	244.60		244.62	0.004741	0.91	8.31	25.22	0.40
unico	564.274*	AVE 10	14.70	244.04	245.07		245.11	0.004571	1.36	24.38	41.94	0.43
unico	564.274*	AVE 50	31.01	244.04	245.49		245.54	0.004077	1.62	43.88	49.99	0.43
unico	564.274*	AVE 100	40.51	244.04	245.68		245.74	0.003969	1.74	53.72	53.25	0.44
unico	564.274*	AVE 500	65.91	244.04	246.08		246.15	0.003999	2.02	76.15	59.90	0.45
unico	560.3693	MCO	3.89	244.01	244.58		244.61	0.004210	0.89	8.04	21.21	0.38
unico	560.3693	AVE 10	14.70	244.01	245.04		245.09	0.005375	1.49	21.91	38.57	0.47
unico	560.3693	AVE 50	31.01	244.01	245.46		245.53	0.004833	1.78	39.85	46.41	0.47
unico	560.3693	AVE 100	40.51	244.01	245.65		245.72	0.004686	1.90	48.96	49.48	0.47
unico	560.3693	AVE 500	65.91	244.01	246.04		246.13	0.004715	2.20	69.64	55.76	0.49
unico	555.529*	MCO	3.89	244.02	244.55		244.58	0.005540	0.96	7.27	20.25	0.43
unico	555.529*	AVE 10	14.70	244.02	244.99		245.06	0.007242	1.65	19.01	34.47	0.54
unico	555.529*	AVE 50	31.01	244.02	245.41		245.50	0.006249	1.96	36.22	45.49	0.53
unico	555.529*	AVE 100	40.51	244.02	245.61		245.70	0.005775	2.06	45.37	48.64	0.52
unico	555.529*	AVE 500	65.91	244.02	246.00		246.11	0.005511	2.33	65.86	54.94	0.53
unico	550.690*	MCO	3.89	244.02	244.51		244.55	0.008247	1.08	6.31	19.16	0.51
unico	550.690*	AVE 10	14.70	244.02	244.93		245.02	0.009859	1.82	16.39	29.82	0.62
unico	550.690*	AVE 50	31.01	244.02	245.34		245.46	0.008746	2.22	31.69	43.38	0.62
unico	550.690*	AVE 100	40.51	244.02	245.55		245.66	0.007571	2.28	41.03	47.55	0.59
unico	550.690*	AVE 500	65.91	244.02	245.95		246.08	0.006618	2.50	61.63	54.01	0.58
unico	545.8505	MCO	3.89	244.03	244.41		244.48	0.024388	1.51	4.29	16.85	0.83
unico	545.8505	AVE 10	14.70	244.03	244.82		244.95	0.016753	2.15	13.18	25.78	0.79
unico	545.8505	AVE 50	31.01	244.03	245.24		245.40	0.013253	2.56	26.21	37.55	0.75
unico	545.8505	AVE 100	40.51	244.03	245.44		245.61	0.011896	2.69	34.56	45.67	0.73
unico	545.8505	AVE 500	65.91	244.03	245.89		246.04	0.008365	2.72	56.56	52.88	0.64
unico	541.686*	MCO	3.89	243.82	244.26	244.23	244.37	0.027882	1.69	3.50	13.82	0.90
unico	541.686*	AVE 10	14.70	243.82	244.70		244.87	0.019050	2.37	11.47	22.76	0.85
unico	541.686*	AVE 50	31.01	243.82	245.13		245.34	0.014557	2.77	23.60	33.91	0.80
unico	541.686*	AVE 100	40.51	243.82	245.35		245.56	0.012305	2.84	31.84	40.90	0.75
unico	541.686*	AVE 500	65.91	243.82	245.80		246.00	0.009276	2.96	53.45	53.39	0.68
unico	537.523*	MCO	3.89	243.61	244.07	244.07	244.22	0.040648	1.95	2.70	10.15	1.07
unico	537.523*	AVE 10	14.70	243.61	244.54	244.50	244.78	0.022789	2.62	9.72	19.41	0.93
unico	537.523*	AVE 50	31.01	243.61	244.99	244.87	245.27	0.016980	3.03	20.47	29.32	0.86
unico	537.523*	AVE 100	40.51	243.61	245.23		245.50	0.013798	3.07	28.44	36.87	0.80
unico	537.523*	AVE 500	65.91	243.61	245.71		245.95	0.010087	3.16	49.62	50.78	0.72
unico	533.3597	MCO	3.89	243.39	244.01	243.90	244.10	0.016390	1.49	3.54	10.28	0.71
unico	533.3597	AVE 10	14.70	243.39	244.48	244.37	244.69	0.015965	2.39	10.35	18.42	0.79
unico	533.3597	AVE 50	31.01	243.39	244.91		245.20	0.014927	2.98	19.94	26.27	0.82
unico	533.3597	AVE 100	40.51	243.39	245.10	244.94	245.43	0.015165	3.27	25.23	31.72	0.84
unico	533.3597	AVE 500	65.91	243.39	245.59		245.90	0.011427	3.42	44.97	47.55	0.77
unico	529.238*	MCO	3.89	243.34	243.95		244.03	0.015831	1.45	3.71	10.63	0.70
unico	529.238*	AVE 10	14.70	243.34	244.42		244.62	0.016245	2.39	10.31	17.89	0.80
unico	529.238*	AVE 50	31.01	243.34	244.84	244.72	245.14	0.015692	3.03	19.48	25.37	0.84
unico	529.238*	AVE 100	40.51	243.34	245.03	244.90	245.37	0.015665	3.31	24.58	29.58	0.86
unico	529.238*	AVE 500	65.91	243.34	245.49		245.85	0.013191	3.62	41.95	45.43	0.82
unico	525.117*	MCO	3.89	243.28	243.89		243.97	0.014024	1.37	4.01	11.06	0.66
unico	525.117*	AVE 10	14.70	243.28	244.36		244.55	0.016021	2.37	10.43	17.49	0.79
unico	525.117*	AVE 50	31.01	243.28	244.77	244.64	245.07	0.016359	3.08	19.13	24.52	0.85
unico	525.117*	AVE 100	40.51	243.28	244.97	244.83	245.30	0.015991	3.33	24.18	27.98	0.86
unico	525.117*	AVE 500	65.91	243.28	245.41	245.25	245.79	0.014597	3.77	39.61	42.50	0.86
unico	520.996*	MCO	3.89	243.23	243.85		243.91	0.011181	1.25	4.47	11.44	0.59
unico	520.996*	AVE 10	14.70	243.23	244.31		244.49	0.015249	2.31	10.71	17.21	0.77
unico	520.996*	AVE 50	31.01	243.23	244.70	244.56	245.00	0.017045	3.11	18.83	23.76	0.87

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	520.996*	AVE 100	40.51	243.23	244.88	244.75	245.23	0.017251	3.41	23.41	26.85	0.89
unico	520.996*	AVE 500	65.91	243.23	245.31	245.15	245.72	0.016467	3.94	37.07	39.19	0.91
unico	516.8754	MCO	3.89	243.17	243.82		243.87	0.008161	1.11	5.12	11.84	0.51
unico	516.8754	AVE 10	14.70	243.17	244.26		244.42	0.014021	2.23	11.15	17.04	0.74
unico	516.8754	AVE 50	31.01	243.17	244.64		244.93	0.017332	3.12	18.75	23.22	0.88
unico	516.8754	AVE 100	40.51	243.17	244.80	244.67	245.15	0.018502	3.49	22.75	25.89	0.92
unico	516.8754	AVE 500	65.91	243.17	245.13	245.00	245.64	0.021415	4.31	32.48	33.53	1.03
unico	512.185*	MCO	3.89	243.20	243.77		243.82	0.011185	1.18	4.82	12.60	0.58
unico	512.185*	AVE 10	14.70	243.20	244.18		244.35	0.017413	2.31	10.77	17.42	0.81
unico	512.185*	AVE 50	31.01	243.20	244.53	244.40	244.84	0.021160	3.23	17.87	22.90	0.95
unico	512.185*	AVE 100	40.51	243.20	244.69	244.59	245.05	0.022347	3.61	21.61	25.24	1.00
unico	512.185*	AVE 500	65.91	243.20	245.03	244.97	245.53	0.023532	4.32	31.32	31.11	1.07
unico	507.496*	MCO	3.89	243.23	243.71		243.76	0.016722	1.24	4.47	13.26	0.69
unico	507.496*	AVE 10	14.70	243.23	244.09		244.25	0.022021	2.37	10.43	17.89	0.89
unico	507.496*	AVE 50	31.01	243.23	244.43	244.32	244.73	0.024782	3.26	17.46	23.02	1.01
unico	507.496*	AVE 100	40.51	243.23	244.57	244.49	244.94	0.026387	3.66	20.91	25.11	1.07
unico	507.496*	AVE 500	65.91	243.23	244.94	244.87	245.41	0.024878	4.26	31.22	30.50	1.08
unico	502.8065	MCO	3.89	243.26	243.55	243.48	243.62	0.053281	1.36	3.25	11.85	1.09
unico	502.8065	AVE 10	14.70	243.26	243.91	243.85	244.11	0.040683	2.63	8.96	18.21	1.16
unico	502.8065	AVE 50	31.01	243.26	244.24	244.19	244.58	0.039009	3.55	15.55	22.74	1.23
unico	502.8065	AVE 100	40.51	243.26	244.45	244.37	244.80	0.030926	3.66	20.70	26.00	1.13
unico	502.8065	AVE 500	65.91	243.26	244.89	244.73	245.27	0.023268	3.99	33.44	32.68	1.04
unico	498.921*	MCO	3.89	242.97	243.33	243.26	243.41	0.051701	1.61	3.14	11.63	1.12
unico	498.921*	AVE 10	14.70	242.97	243.65	243.65	243.92	0.052277	3.01	7.80	16.31	1.31
unico	498.921*	AVE 50	31.01	242.97	244.01	244.01	244.41	0.041644	3.78	14.24	19.41	1.28
unico	498.921*	AVE 100	40.51	242.97	244.18	244.18	244.65	0.038619	4.10	17.84	21.76	1.27
unico	498.921*	AVE 500	65.91	242.97	244.67	244.56	245.16	0.026233	4.34	29.99	28.67	1.11
unico	495.035*	MCO	3.89	242.68	243.07	243.04	243.19	0.060784	1.85	2.81	10.79	1.23
unico	495.035*	AVE 10	14.70	242.68	243.44	243.44	243.73	0.045680	3.03	7.80	15.42	1.25
unico	495.035*	AVE 50	31.01	242.68	243.84	243.82	244.24	0.033724	3.67	14.69	18.70	1.17
unico	495.035*	AVE 100	40.51	242.68	244.07	244.00	244.49	0.027851	3.82	19.09	20.62	1.10
unico	495.035*	AVE 500	65.91	242.68	244.63	244.42	245.06	0.018422	3.99	32.37	26.82	0.95
unico	491.15*	MCO	3.89	242.39	242.83	242.80	242.96	0.055418	1.91	2.74	10.16	1.20
unico	491.15*	AVE 10	14.70	242.39	243.36	243.22	243.55	0.020326	2.44	9.91	15.65	0.87
unico	491.15*	AVE 50	31.01	242.39	243.85		244.12	0.016063	2.98	18.42	19.26	0.84
unico	491.15*	AVE 100	40.51	242.39	244.07		244.38	0.015269	3.23	22.87	21.06	0.84
unico	491.15*	AVE 500	65.91	242.39	244.61		244.98	0.012591	3.61	35.92	26.65	0.81
unico	487.2645	MCO	3.89	242.10	242.84		242.88	0.005881	1.02	5.75	12.87	0.44
unico	487.2645	AVE 10	14.70	242.10	243.37		243.48	0.007592	1.83	13.54	16.45	0.56
unico	487.2645	AVE 50	31.01	242.10	243.86		244.05	0.008620	2.49	22.35	19.87	0.64
unico	487.2645	AVE 100	40.51	242.10	244.08		244.31	0.009004	2.78	26.90	21.61	0.67
unico	487.2645	AVE 500	65.91	242.10	244.62		244.92	0.008734	3.27	39.92	26.80	0.68
unico	482.844*	MCO	3.89	242.12	242.81		242.85	0.006903	1.07	5.48	12.07	0.47
unico	482.844*	AVE 10	14.70	242.12	243.32		243.44	0.009411	1.97	12.44	15.37	0.62
unico	482.844*	AVE 50	31.01	242.12	243.76		244.00	0.011510	2.77	20.07	19.09	0.73
unico	482.844*	AVE 100	40.51	242.12	243.97		244.26	0.011991	3.09	24.25	20.95	0.76
unico	482.844*	AVE 500	65.91	242.12	244.44	244.07	244.86	0.013020	3.79	36.84	37.25	0.83
unico	478.424*	MCO	3.89	242.14	242.77		242.81	0.008634	1.13	5.08	11.24	0.52
unico	478.424*	AVE 10	14.70	242.14	243.23		243.39	0.013034	2.19	11.11	14.93	0.72
unico	478.424*	AVE 50	31.01	242.14	243.69		243.94	0.013411	2.90	21.00	27.35	0.78
unico	478.424*	AVE 100	40.51	242.14	243.96		244.19	0.010936	2.93	28.52	30.27	0.73
unico	478.424*	AVE 500	65.91	242.14	244.53		244.76	0.007810	3.02	47.91	36.60	0.64
unico	474.0047	MCO	3.89	242.16	242.73		242.77	0.010102	1.16	5.16	12.88	0.56
unico	474.0047	AVE 10	14.70	242.16	243.19		243.32	0.013043	2.13	11.73	15.55	0.72
unico	474.0047	AVE 50	31.01	242.16	243.64		243.88	0.013938	2.89	19.34	18.17	0.79
unico	474.0047	AVE 100	40.51	242.16	243.84		244.13	0.014648	3.24	23.01	19.32	0.83
unico	474.0047	AVE 500	65.91	242.16	244.27		244.69	0.015798	3.96	31.88	21.82	0.90
unico	469.779*	MCO	3.89	242.16	242.68		242.72	0.011448	1.17	4.87	12.13	0.59
unico	469.779*	AVE 10	14.70	242.16	243.10		243.26	0.016476	2.26	10.54	14.90	0.79
unico	469.779*	AVE 50	31.01	242.16	243.48		243.80	0.019945	3.21	16.89	18.63	0.93
unico	469.779*	AVE 100	40.51	242.16	243.68	243.37	244.05	0.019589	3.51	20.69	20.03	0.94
unico	469.779*	AVE 500	65.91	242.16	244.16		244.61	0.017149	4.00	31.20	23.47	0.93
unico	465.553*	MCO	3.89	242.15	242.62		242.67	0.013573	1.19	4.72	12.91	0.63
unico	465.553*	AVE 10	14.70	242.15	243.02		243.19	0.017859	2.24	10.38	15.22	0.82
unico	465.553*	AVE 50	31.01	242.15	243.41		243.71	0.020082	3.11	16.63	17.43	0.93
unico	465.553*	AVE 100	40.51	242.15	243.60	243.40	243.96	0.020148	3.44	20.03	18.52	0.95
unico	465.553*	AVE 500	65.91	242.15	244.02	243.83	244.53	0.019967	4.12	28.45	20.99	0.99
unico	461.3275	MCO	3.89	242.14	242.52		242.59	0.026655	1.39	3.88	13.59	0.84
unico	461.3275	AVE 10	14.70	242.14	242.91		243.10	0.023691	2.36	9.63	15.69	0.92

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	461.3275	AVE 50	31.01	242.14	243.32	243.15	243.62	0.021549	3.08	16.42	17.85	0.95
unico	461.3275	AVE 100	40.51	242.14	243.52	243.33	243.87	0.020636	3.37	20.03	18.90	0.95
unico	461.3275	AVE 500	65.91	242.14	243.96	243.74	244.44	0.019000	3.95	29.01	21.29	0.96
unico	457.457*	MCO	3.89	241.98	242.40		242.48	0.024766	1.53	3.73	13.15	0.84
unico	457.457*	AVE 10	14.70	241.98	242.81		243.00	0.021686	2.42	9.57	15.45	0.89
unico	457.457*	AVE 50	31.01	241.98	243.23		243.54	0.019596	3.10	16.54	17.68	0.92
unico	457.457*	AVE 100	40.51	241.98	243.43		243.79	0.018930	3.38	20.19	18.75	0.92
unico	457.457*	AVE 500	65.91	241.98	243.88		244.36	0.017688	3.96	29.27	21.17	0.94
unico	453.586*	MCO	3.89	241.81	242.29		242.39	0.023595	1.61	3.56	12.83	0.83
unico	453.586*	AVE 10	14.70	241.81	242.71		242.92	0.019602	2.43	9.62	15.30	0.86
unico	453.586*	AVE 50	31.01	241.81	243.14		243.46	0.018229	3.11	16.66	17.55	0.89
unico	453.586*	AVE 100	40.51	241.81	243.34		243.72	0.017882	3.40	20.29	18.62	0.90
unico	453.586*	AVE 500	65.91	241.81	243.80		244.29	0.017006	3.99	29.36	21.05	0.92
unico	449.716*	MCO	3.89	241.65	242.21		242.31	0.017620	1.52	3.75	12.86	0.73
unico	449.716*	AVE 10	14.70	241.65	242.64		242.85	0.017496	2.40	9.84	15.26	0.82
unico	449.716*	AVE 50	31.01	241.65	243.07		243.39	0.017146	3.10	16.85	17.48	0.87
unico	449.716*	AVE 100	40.51	241.65	243.27		243.65	0.017233	3.42	20.39	18.53	0.89
unico	449.716*	AVE 500	65.91	241.65	243.72		244.22	0.016955	4.04	29.25	20.93	0.92
unico	445.8461	MCO	3.89	241.48	242.08	242.08	242.22	0.028538	1.81	2.98	12.55	0.92
unico	445.8461	AVE 10	14.70	241.48	242.47	242.47	242.76	0.027686	2.82	8.30	14.65	1.01
unico	445.8461	AVE 50	31.01	241.48	242.85	242.85	243.30	0.027309	3.64	14.25	16.62	1.08
unico	445.8461	AVE 100	40.51	241.48	243.04	243.04	243.55	0.026482	3.96	17.46	17.58	1.09
unico	445.8461	AVE 500	65.91	241.48	243.46	243.46	244.13	0.025158	4.62	25.34	19.84	1.11
unico	442.007*	MCO	3.89	241.39	241.86	241.91	242.07	0.050168	2.18	2.42	11.52	1.19
unico	442.007*	AVE 10	14.70	241.39	242.33	242.30	242.60	0.024620	2.72	8.59	14.42	0.96
unico	442.007*	AVE 50	31.01	241.39	242.78	242.69	243.15	0.020711	3.34	15.59	16.74	0.95
unico	442.007*	AVE 100	40.51	241.39	242.98	242.87	243.41	0.020076	3.64	19.11	17.78	0.96
unico	442.007*	AVE 500	65.91	241.39	243.41	243.30	243.99	0.020083	4.32	27.25	20.01	1.00
unico	438.169*	MCO	3.89	241.29	241.84	241.74	241.91	0.013527	1.39	4.17	12.18	0.65
unico	438.169*	AVE 10	14.70	241.29	242.34		242.50	0.012484	2.17	10.96	14.99	0.71
unico	438.169*	AVE 50	31.01	241.29	242.78		243.06	0.013440	2.90	18.18	17.29	0.78
unico	438.169*	AVE 100	40.51	241.29	242.98		243.32	0.013904	3.23	21.78	18.32	0.81
unico	438.169*	AVE 500	65.91	241.29	243.42		243.90	0.015055	3.94	30.19	20.52	0.88
unico	434.330*	MCO	3.89	241.20	241.84		241.87	0.004943	0.97	6.10	12.76	0.41
unico	434.330*	AVE 10	14.70	241.20	242.33		242.45	0.007633	1.83	13.15	15.50	0.56
unico	434.330*	AVE 50	31.01	241.20	242.78		243.00	0.009578	2.59	20.63	17.83	0.67
unico	434.330*	AVE 100	40.51	241.20	242.99		243.25	0.010319	2.92	24.36	18.88	0.71
unico	434.330*	AVE 500	65.91	241.20	243.42		243.82	0.011827	3.63	33.07	21.07	0.79
unico	430.4919	MCO	3.89	241.10	241.83		241.85	0.002431	0.75	7.97	13.31	0.29
unico	430.4919	AVE 10	14.70	241.10	242.33		242.41	0.005175	1.59	15.28	16.02	0.47
unico	430.4919	AVE 50	31.01	241.10	242.78		242.95	0.007240	2.34	23.03	18.39	0.59
unico	430.4919	AVE 100	40.51	241.10	242.99		243.20	0.008035	2.67	26.90	19.46	0.63
unico	430.4919	AVE 500	65.91	241.10	243.43		243.76	0.009625	3.37	35.92	21.65	0.72
unico	425.931*	MCO	3.89	241.17	241.82		241.84	0.003668	0.82	7.16	13.31	0.35
unico	425.931*	AVE 10	14.70	241.17	242.29		242.39	0.006890	1.70	14.18	16.09	0.53
unico	425.931*	AVE 50	31.01	241.17	242.73		242.91	0.009126	2.47	21.69	18.49	0.65
unico	425.931*	AVE 100	40.51	241.17	242.93		243.16	0.009960	2.80	25.44	19.54	0.69
unico	425.931*	AVE 500	65.91	241.17	243.35		243.71	0.011614	3.52	34.22	21.80	0.78
unico	421.370*	MCO	3.89	241.23	241.79		241.82	0.005956	0.90	6.31	13.28	0.43
unico	421.370*	AVE 10	14.70	241.23	242.25		242.35	0.009694	1.83	12.97	16.11	0.62
unico	421.370*	AVE 50	31.01	241.23	242.66		242.87	0.012010	2.62	20.18	18.55	0.73
unico	421.370*	AVE 100	40.51	241.23	242.85		243.11	0.012835	2.97	23.81	19.65	0.77
unico	421.370*	AVE 500	65.91	241.23	243.26		243.65	0.014550	3.71	32.31	22.07	0.86
unico	416.809*	MCO	3.89	241.29	241.75		241.78	0.011365	0.97	5.29	13.10	0.56
unico	416.809*	AVE 10	14.70	241.29	242.17		242.29	0.015393	2.01	11.46	16.12	0.75
unico	416.809*	AVE 50	31.01	241.29	242.56		242.80	0.017478	2.85	18.28	18.77	0.86
unico	416.809*	AVE 100	40.51	241.29	242.74		243.04	0.018091	3.20	21.79	19.99	0.90
unico	416.809*	AVE 500	65.91	241.29	243.15	242.86	243.57	0.018863	3.92	30.41	22.73	0.96
unico	412.2492	MCO	3.89	241.35	241.61	241.53	241.68	0.054791	1.18	3.21	10.59	1.06
unico	412.2492	AVE 10	14.70	241.35	241.97	241.88	242.17	0.048164	2.54	8.23	15.94	1.22
unico	412.2492	AVE 50	31.01	241.35	242.37	242.24	242.68	0.035685	3.34	14.95	18.31	1.17
unico	412.2492	AVE 100	40.51	241.35	242.54	242.41	242.92	0.033509	3.68	18.29	19.39	1.17
unico	412.2492	AVE 500	65.91	241.35	242.92	242.80	243.45	0.031686	4.43	26.07	21.68	1.20
unico	408.295*	MCO	3.89	241.03	241.37	241.31	241.46	0.061028	1.52	3.05	10.81	1.17
unico	408.295*	AVE 10	14.70	241.03	241.74	241.68	241.98	0.047471	2.81	7.84	14.50	1.24
unico	408.295*	AVE 50	31.01	241.03	242.07	242.07	242.51	0.046327	3.86	13.05	16.78	1.33
unico	408.295*	AVE 100	40.51	241.03	242.26	242.26	242.76	0.041395	4.16	16.31	18.16	1.30
unico	408.295*	AVE 500	65.91	241.03	242.69	242.69	243.31	0.033450	4.72	25.08	22.15	1.24
unico	404.342*	MCO	3.89	240.70	241.14	241.09	241.24	0.050016	1.70	3.09	10.93	1.12

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	404.342*	AVE 10	14.70	240.70	241.48	241.48	241.78	0.049943	3.08	7.41	14.00	1.30
unico	404.342*	AVE 50	31.01	240.70	241.84	241.88	242.33	0.043899	4.00	12.91	16.47	1.32
unico	404.342*	AVE 100	40.51	240.70	242.00	242.07	242.59	0.043399	4.42	15.63	17.51	1.35
unico	404.342*	AVE 500	65.91	240.70	242.39	242.49	243.16	0.039830	5.16	22.79	19.93	1.36
unico	400.389*	MCO	3.89	240.38	240.84	240.84	241.00	0.071148	2.11	2.53	9.64	1.35
unico	400.389*	AVE 10	14.70	240.38	241.31	241.27	241.58	0.032011	2.86	8.29	14.13	1.08
unico	400.389*	AVE 50	31.01	240.38	241.71	241.68	242.13	0.029804	3.70	14.41	16.79	1.12
unico	400.389*	AVE 100	40.51	240.38	241.88	241.87	242.39	0.030412	4.10	17.35	17.94	1.16
unico	400.389*	AVE 500	65.91	240.38	242.14	242.29	242.99	0.040483	5.36	22.28	19.64	1.38
unico	396.4361	MCO	3.89	240.05	240.86	240.56	240.90	0.006322	1.09	5.47	12.04	0.46
unico	396.4361	AVE 10	14.70	240.05	241.33		241.47	0.009995	2.06	12.13	15.56	0.64
unico	396.4361	AVE 50	31.01	240.05	241.74		242.01	0.013002	2.93	19.07	18.33	0.77
unico	396.4361	AVE 100	40.51	240.05	241.92		242.26	0.014277	3.31	22.49	19.58	0.83
unico	396.4361	AVE 500	65.91	240.05	242.31	242.10	242.80	0.016784	4.14	30.52	22.10	0.93
unico	392.274*	MCO	3.89	240.08	240.84		240.87	0.005481	1.03	5.93	12.36	0.43
unico	392.274*	AVE 10	14.70	240.08	241.30		241.43	0.009573	2.01	12.53	15.75	0.63
unico	392.274*	AVE 50	31.01	240.08	241.70		241.95	0.013069	2.91	19.32	18.62	0.77
unico	392.274*	AVE 100	40.51	240.08	241.87		242.19	0.014536	3.31	22.66	19.88	0.83
unico	392.274*	AVE 500	65.91	240.08	242.24	242.02	242.73	0.017631	4.18	30.45	22.62	0.95
unico	388.112*	MCO	3.89	240.11	240.82		240.85	0.004517	0.94	6.58	12.93	0.39
unico	388.112*	AVE 10	14.70	240.11	241.27		241.39	0.008818	1.93	13.20	16.15	0.60
unico	388.112*	AVE 50	31.01	240.11	241.66		241.89	0.012581	2.84	19.89	18.67	0.76
unico	388.112*	AVE 100	40.51	240.11	241.82		242.13	0.014376	3.26	23.08	20.00	0.83
unico	388.112*	AVE 500	65.91	240.11	242.16	241.94	242.65	0.018505	4.21	30.36	22.91	0.97
unico	383.9503	MCO	3.89	240.14	240.81		240.83	0.003633	0.85	7.35	13.59	0.35
unico	383.9503	AVE 10	14.70	240.14	241.25		241.35	0.007920	1.83	14.06	16.67	0.57
unico	383.9503	AVE 50	31.01	240.14	241.62		241.83	0.011839	2.74	20.75	19.11	0.74
unico	383.9503	AVE 100	40.51	240.14	241.78		242.06	0.013661	3.16	23.91	20.16	0.80
unico	383.9503	AVE 500	65.91	240.14	242.10	241.84	242.57	0.018680	4.18	30.64	22.77	0.97
unico	379.802*	MCO	3.89	240.25	240.79		240.81	0.006466	0.91	6.55	14.33	0.45
unico	379.802*	AVE 10	14.70	240.25	241.21		241.31	0.011110	1.90	13.39	17.74	0.65
unico	379.802*	AVE 50	31.01	240.25	241.57		241.78	0.015065	2.80	20.32	20.56	0.81
unico	379.802*	AVE 100	40.51	240.25	241.73		242.00	0.016885	3.21	23.65	21.85	0.87
unico	379.802*	AVE 500	65.91	240.25	242.03	241.79	242.48	0.022323	4.21	30.84	25.64	1.04
unico	375.654*	MCO	3.89	240.37	240.75		240.77	0.013552	0.90	5.47	14.73	0.59
unico	375.654*	AVE 10	14.70	240.37	241.15		241.25	0.017352	1.97	12.30	18.79	0.78
unico	375.654*	AVE 50	31.01	240.37	241.50		241.70	0.020585	2.87	19.51	22.31	0.91
unico	375.654*	AVE 100	40.51	240.37	241.66	241.36	241.91	0.022340	3.28	23.06	24.43	0.98
unico	375.654*	AVE 500	65.91	240.37	241.96	241.76	242.37	0.027260	4.23	31.05	29.11	1.12
unico	371.5071	MCO	3.89	240.48	240.57	240.51	240.65	0.080365	0.72	3.03	10.64	1.08
unico	371.5071	AVE 10	14.70	240.48	240.86	240.86	241.09	0.108768	2.34	6.92	16.09	1.62
unico	371.5071	AVE 50	31.01	240.48	241.16	241.16	241.53	0.087128	3.79	12.61	21.05	1.68
unico	371.5071	AVE 100	40.51	240.48	241.32	241.32	241.74	0.075970	4.20	15.99	23.12	1.64
unico	371.5071	AVE 500	65.91	240.48	241.67	241.67	242.20	0.058038	4.88	25.35	29.49	1.54
unico	368.055*	MCO	3.89	239.99	240.19	240.19	240.30	0.132193	1.55	2.59	11.62	1.57
unico	368.055*	AVE 10	14.70	239.99	240.51	240.51	240.77	0.083287	3.12	7.47	17.76	1.58
unico	368.055*	AVE 50	31.01	239.99	240.78	240.86	241.24	0.081056	4.34	12.76	21.67	1.70
unico	368.055*	AVE 100	40.51	239.99	240.90	241.00	241.46	0.081754	4.86	15.42	23.55	1.75
unico	368.055*	AVE 500	65.91	239.99	241.18	241.40	241.94	0.078303	5.84	22.93	29.90	1.80
unico	364.603*	MCO	3.89	239.50	239.81	239.82	239.95	0.083163	2.18	2.83	13.19	1.44
unico	364.603*	AVE 10	14.70	239.50	240.08	240.18	240.47	0.084490	3.71	7.01	16.98	1.66
unico	364.603*	AVE 50	31.01	239.50	240.37	240.52	240.96	0.075541	4.73	12.59	21.68	1.69
unico	364.603*	AVE 100	40.51	239.50	240.51	240.64	241.18	0.073215	5.16	15.63	24.21	1.71
unico	364.603*	AVE 500	65.91	239.50	240.81	241.11	241.68	0.069820	6.08	24.41	34.48	1.75
unico	361.1518	MCO	3.89	239.01	239.43	239.38	239.53	0.025231	1.71	3.73	12.26	0.87
unico	361.1518	AVE 10	14.70	239.01	239.80	239.78	240.06	0.030772	2.94	9.30	17.87	1.07
unico	361.1518	AVE 50	31.01	239.01	239.93	240.15	240.68	0.075020	5.09	11.77	20.25	1.72
unico	361.1518	AVE 100	40.51	239.01	240.79	240.44	240.92	0.006831	2.40	41.82	46.62	0.58
unico	361.1518	AVE 500	65.91	239.01	240.38	240.72	241.42	0.069115	6.41	24.47	37.70	1.76
unico	356.589*	MCO	3.89	238.90	239.32		239.41	0.025867	1.68	3.82	13.32	0.87
unico	356.589*	AVE 10	14.70	238.90	239.69	239.66	239.92	0.029030	2.80	9.84	19.50	1.04
unico	356.589*	AVE 50	31.01	238.90	239.91	239.91	240.41	0.046487	4.23	14.97	27.09	1.37
unico	356.589*	AVE 100	40.51	238.90	239.91	239.91	240.77	0.080892	5.57	14.85	26.45	1.81
unico	356.589*	AVE 500	65.91	238.90	240.22	240.49	241.06	0.062466	5.90	26.34	40.35	1.66
unico	352.026*	MCO	3.89	238.78	239.20		239.29	0.026709	1.66	3.92	14.45	0.88
unico	352.026*	AVE 10	14.70	238.78	239.56	239.50	239.78	0.029423	2.75	10.39	22.84	1.04
unico	352.026*	AVE 50	31.01	238.78	239.82	239.91	240.18	0.036854	3.77	19.27	41.35	1.22
unico	352.026*	AVE 100	40.51	238.78	239.85	240.02	240.38	0.051681	4.58	20.80	41.98	1.45
unico	352.026*	AVE 500	65.91	238.78	240.01	240.23	240.74	0.064618	5.65	27.80	45.51	1.67

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	347.464*	MCO	3.89	238.67	239.09		239.17	0.025461	1.58	4.14	15.71	0.85
unico	347.464*	AVE 10	14.70	238.67	239.39	239.39	239.63	0.038276	2.91	10.55	37.77	1.16
unico	347.464*	AVE 50	31.01	238.67	239.56	239.69	239.98	0.055453	4.11	18.25	47.52	1.45
unico	347.464*	AVE 100	40.51	238.67	239.63	239.77	240.11	0.061566	4.57	21.52	49.22	1.55
unico	347.464*	AVE 500	65.91	238.67	239.78	239.97	240.40	0.071040	5.45	29.37	53.14	1.71
unico	342.902*	MCO	3.89	238.55	238.94	238.91	239.03	0.037755	1.72	3.74	16.19	1.01
unico	342.902*	AVE 10	14.70	238.55	239.18	239.25	239.42	0.053803	3.06	11.88	51.74	1.33
unico	342.902*	AVE 50	31.01	238.55	239.30	239.41	239.68	0.073687	4.11	18.49	55.09	1.62
unico	342.902*	AVE 100	40.51	238.55	239.37	239.49	239.78	0.076537	4.46	22.14	56.96	1.67
unico	342.902*	AVE 500	65.91	238.55	239.51	239.67	240.03	0.083191	5.23	30.28	60.24	1.79
unico	338.339*	MCO	3.89	238.44	238.74	238.74	238.81	0.062423	1.70	4.54	35.28	1.22
unico	338.339*	AVE 10	14.70	238.44	238.88	238.97	239.09	0.104339	3.14	10.49	49.76	1.72
unico	338.339*	AVE 50	31.01	238.44	239.04	239.10	239.28	0.086093	3.67	19.62	62.48	1.66
unico	338.339*	AVE 100	40.51	238.44	239.10	239.17	239.38	0.087150	3.98	23.38	64.14	1.71
unico	338.339*	AVE 500	65.91	238.44	239.22	239.31	239.59	0.090613	4.66	31.82	66.88	1.80
unico	333.7772	MCO	3.89	238.32	238.46	238.39	238.49	0.039807	0.76	6.12	37.43	0.84
unico	333.7772	AVE 10	14.70	238.32	238.68	238.56	238.72	0.038280	1.50	16.26	59.21	0.98
unico	333.7772	AVE 50	31.01	238.32	238.84	238.71	238.92	0.039971	2.16	27.10	69.93	1.09
unico	333.7772	AVE 100	40.51	238.32	238.91	238.79	239.01	0.039013	2.39	32.26	70.99	1.11
unico	333.7772	AVE 500	65.91	238.32	239.08	238.93	239.22	0.037497	2.87	44.35	73.47	1.14
unico	328.853*	MCO	3.89	238.02	238.25	238.19	238.28	0.043576	1.09	5.90	37.43	0.95
unico	328.853*	AVE 10	14.70	238.02	238.45	238.36	238.52	0.046008	1.94	15.42	61.35	1.12
unico	328.853*	AVE 50	31.01	238.02	238.61	238.53	238.71	0.042768	2.47	25.44	64.94	1.16
unico	328.853*	AVE 100	40.51	238.02	238.68	238.60	238.81	0.041439	2.69	30.47	66.33	1.17
unico	328.853*	AVE 500	65.91	238.02	238.86	238.75	239.03	0.038703	3.14	42.40	68.90	1.19
unico	323.929*	MCO	3.89	237.72	238.02	237.98	238.05	0.046995	1.33	5.49	37.04	1.03
unico	323.929*	AVE 10	14.70	237.72	238.21	238.18	238.29	0.045035	2.13	14.74	56.46	1.14
unico	323.929*	AVE 50	31.01	237.72	238.36	238.31	238.50	0.045056	2.71	23.84	59.27	1.21
unico	323.929*	AVE 100	40.51	237.72	238.44	238.38	238.60	0.043574	2.94	28.67	60.93	1.22
unico	323.929*	AVE 500	65.91	237.72	238.63	238.54	238.83	0.040977	3.41	40.18	64.44	1.24
unico	319.005*	MCO	3.89	237.42	237.75	237.73	237.81	0.052531	1.55	4.81	34.55	1.11
unico	319.005*	AVE 10	14.70	237.42	237.94	237.93	238.05	0.050838	2.37	13.46	51.67	1.22
unico	319.005*	AVE 50	31.01	237.42	238.11	238.09	238.27	0.045218	2.88	22.83	55.09	1.23
unico	319.005*	AVE 100	40.51	237.42	238.19	238.16	238.38	0.045113	3.14	27.22	56.49	1.26
unico	319.005*	AVE 500	65.91	237.42	238.38	238.32	238.62	0.043501	3.65	37.89	59.53	1.29
unico	314.081*	MCO	3.89	237.13	237.49	237.47	237.56	0.048815	1.63	4.56	34.18	1.10
unico	314.081*	AVE 10	14.70	237.13	237.68	237.68	237.81	0.048568	2.45	12.99	47.33	1.21
unico	314.081*	AVE 50	31.01	237.13	237.85	237.85	238.04	0.048780	3.09	21.40	51.08	1.29
unico	314.081*	AVE 100	40.51	237.13	237.93	237.92	238.15	0.046648	3.31	25.89	52.44	1.29
unico	314.081*	AVE 500	65.91	237.13	238.14	238.10	238.40	0.042782	3.78	36.81	55.81	1.29
unico	309.158*	MCO	3.89	236.83	237.19	237.16	237.29	0.060933	1.81	3.64	27.17	1.22
unico	309.158*	AVE 10	14.70	236.83	237.40	237.42	237.55	0.052012	2.61	12.18	44.18	1.26
unico	309.158*	AVE 50	31.01	236.83	237.59	237.59	237.79	0.048171	3.18	20.67	47.55	1.29
unico	309.158*	AVE 100	40.51	236.83	237.67	237.67	237.91	0.047157	3.44	24.94	49.28	1.31
unico	309.158*	AVE 500	65.91	236.83	237.86	237.86	238.18	0.046767	4.01	34.56	52.05	1.35
unico	304.234*	MCO	3.89	236.53	236.90	236.86	237.00	0.057419	1.78	3.53	18.67	1.19
unico	304.234*	AVE 10	14.70	236.53	237.13	237.15	237.30	0.051857	2.68	11.72	41.34	1.27
unico	304.234*	AVE 50	31.01	236.53	237.31	237.33	237.55	0.050635	3.33	19.67	44.73	1.33
unico	304.234*	AVE 100	40.51	236.53	237.40	237.42	237.67	0.049579	3.59	23.67	45.89	1.35
unico	304.234*	AVE 500	65.91	236.53	237.62	237.62	237.95	0.044188	4.05	34.22	49.49	1.33
unico	299.310*	MCO	3.89	236.23	236.60	236.59	236.70	0.061521	1.82	3.42	18.28	1.23
unico	299.310*	AVE 10	14.70	236.23	236.85	236.88	237.04	0.052460	2.76	11.27	38.92	1.29
unico	299.310*	AVE 50	31.01	236.23	237.04	237.07	237.30	0.049502	3.38	19.20	42.24	1.32
unico	299.310*	AVE 100	40.51	236.23	237.13	237.16	237.42	0.048847	3.66	23.13	43.67	1.34
unico	299.310*	AVE 500	65.91	236.23	237.33	237.36	237.71	0.049043	4.29	32.06	46.31	1.40
unico	294.386*	MCO	3.89	235.93	236.31	236.29	236.41	0.056904	1.79	3.55	18.85	1.19
unico	294.386*	AVE 10	14.70	235.93	236.56	236.61	236.77	0.054195	2.84	10.71	35.92	1.31
unico	294.386*	AVE 50	31.01	235.93	236.77	236.81	237.05	0.050788	3.48	18.51	40.12	1.35
unico	294.386*	AVE 100	40.51	235.93	236.86	236.90	237.18	0.050593	3.78	22.22	41.37	1.37
unico	294.386*	AVE 500	65.91	235.93	237.08	237.12	237.47	0.047549	4.32	31.56	44.12	1.39
unico	289.462*	MCO	3.89	235.63	236.01	235.99	236.12	0.062494	1.83	3.40	18.28	1.24
unico	289.462*	AVE 10	14.70	235.63	236.27	236.32	236.50	0.056670	2.91	10.13	32.73	1.34
unico	289.462*	AVE 50	31.01	235.63	236.49	236.54	236.79	0.051886	3.57	17.88	38.16	1.37
unico	289.462*	AVE 100	40.51	235.63	236.59	236.64	236.92	0.050039	3.83	21.75	39.56	1.37
unico	289.462*	AVE 500	65.91	235.63	236.80	236.86	237.23	0.049165	4.45	30.41	41.74	1.41
unico	284.538*	MCO	3.89	235.33	235.73	235.71	235.83	0.055900	1.78	3.54	18.59	1.18
unico	284.538*	AVE 10	14.70	235.33	235.98	236.03	236.22	0.056517	2.93	9.81	30.43	1.34
unico	284.538*	AVE 50	31.01	235.33	236.21	236.27	236.53	0.051947	3.63	17.43	36.45	1.37
unico	284.538*	AVE 100	40.51	235.33	236.31	236.37	236.67	0.051279	3.93	21.06	37.83	1.39
unico	284.538*	AVE 500	65.91	235.33	236.53	236.60	236.99	0.049236	4.52	29.63	39.59	1.42

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	279.615*	MCO	3.89	235.04	235.42	235.42	235.53	0.064301	1.85	3.31	17.50	1.26
unico	279.615*	AVE 10	14.70	235.04	235.69	235.73	235.93	0.057885	2.97	9.43	28.30	1.36
unico	279.615*	AVE 50	31.01	235.04	235.92	236.00	236.27	0.053407	3.70	16.77	34.28	1.39
unico	279.615*	AVE 100	40.51	235.04	236.03	236.10	236.41	0.051608	3.99	20.50	35.93	1.40
unico	279.615*	AVE 500	65.91	235.04	236.26	236.34	236.74	0.048869	4.58	28.99	37.67	1.42
unico	274.691*	MCO	3.89	234.74	235.14	235.12	235.24	0.053364	1.76	3.54	18.00	1.16
unico	274.691*	AVE 10	14.70	234.74	235.40	235.44	235.65	0.057454	2.97	9.21	26.66	1.36
unico	274.691*	AVE 50	31.01	234.74	235.63	235.71	236.00	0.054720	3.76	16.16	32.03	1.41
unico	274.691*	AVE 100	40.51	234.74	235.74	235.83	236.15	0.053268	4.07	19.73	33.71	1.43
unico	274.691*	AVE 500	65.91	234.74	235.98	236.07	236.49	0.049605	4.66	28.18	35.89	1.44
unico	269.767*	MCO	3.89	234.44	234.83	234.83	234.95	0.066835	1.88	3.22	16.94	1.28
unico	269.767*	AVE 10	14.70	234.44	235.10	235.14	235.36	0.058036	2.98	8.98	25.32	1.36
unico	269.767*	AVE 50	31.01	234.44	235.34	235.41	235.72	0.055619	3.81	15.66	30.08	1.43
unico	269.767*	AVE 100	40.51	234.44	235.45	235.54	235.89	0.053826	4.12	19.14	31.69	1.44
unico	269.767*	AVE 500	65.91	234.44	235.71	235.81	236.25	0.049336	4.71	27.62	34.41	1.44
unico	264.843*	MCO	3.89	234.14	234.56	234.54	234.66	0.050704	1.74	3.52	17.39	1.13
unico	264.843*	AVE 10	14.70	234.14	234.81	234.86	235.07	0.057979	2.99	8.83	24.42	1.36
unico	264.843*	AVE 50	31.01	234.14	235.05	235.13	235.45	0.056050	3.84	15.23	28.32	1.43
unico	264.843*	AVE 100	40.51	234.14	235.17	235.26	235.62	0.054303	4.16	18.59	29.86	1.44
unico	264.843*	AVE 500	65.91	234.14	235.43	235.54	236.00	0.050232	4.79	26.86	32.95	1.45
unico	259.919*	MCO	3.89	233.84	234.25	234.25	234.36	0.070074	1.91	3.09	16.24	1.31
unico	259.919*	AVE 10	14.70	233.84	234.52	234.56	234.78	0.058556	3.00	8.67	23.50	1.37
unico	259.919*	AVE 50	31.01	233.84	234.76	234.84	235.17	0.056376	3.86	14.88	26.91	1.44
unico	259.919*	AVE 100	40.51	233.84	234.88	234.96	235.35	0.054870	4.20	18.11	28.34	1.45
unico	259.919*	AVE 500	65.91	233.84	235.15	235.27	235.74	0.051345	4.87	26.07	31.35	1.47
unico	254.9960	MCO	3.89	233.54	234.02	233.96	234.09	0.027732	1.45	4.33	19.18	0.86
unico	254.9960	AVE 10	14.70	233.54	234.33	234.27	234.49	0.028576	2.39	10.99	23.91	0.99
unico	254.9960	AVE 50	31.01	233.54	234.61	234.55	234.88	0.030259	3.17	18.10	27.13	1.08
unico	254.9960	AVE 100	40.51	233.54	234.73	234.68	235.06	0.031461	3.53	21.52	28.47	1.13
unico	254.9960	AVE 500	65.91	233.54	235.00	234.99	235.46	0.033596	4.28	29.53	31.02	1.21
unico	250.780*	MCO	3.89	233.46	233.91		233.97	0.028532	1.46	4.41	19.39	0.87
unico	250.780*	AVE 10	14.70	233.46	234.21	234.15	234.37	0.030692	2.43	10.97	24.54	1.02
unico	250.780*	AVE 50	31.01	233.46	234.47	234.43	234.74	0.032740	3.24	17.95	27.60	1.12
unico	250.780*	AVE 100	40.51	233.46	234.60	234.56	234.92	0.033442	3.58	21.43	28.84	1.16
unico	250.780*	AVE 500	65.91	233.46	234.86	234.85	235.31	0.034664	4.29	29.48	30.88	1.23
unico	246.565*	MCO	3.89	233.38	233.79		233.86	0.029372	1.45	4.51	19.91	0.88
unico	246.565*	AVE 10	14.70	233.38	234.08	234.03	234.24	0.033141	2.47	10.96	25.17	1.05
unico	246.565*	AVE 50	31.01	233.38	234.34	234.29	234.60	0.034666	3.26	17.92	27.91	1.15
unico	246.565*	AVE 100	40.51	233.38	234.46	234.42	234.78	0.035341	3.61	21.35	29.04	1.19
unico	246.565*	AVE 500	65.91	233.38	234.73	234.71	235.17	0.035288	4.27	29.58	30.82	1.24
unico	242.349*	MCO	3.89	233.30	233.67		233.73	0.031570	1.46	4.62	21.09	0.91
unico	242.349*	AVE 10	14.70	233.30	233.94	233.89	234.09	0.035096	2.46	11.01	25.55	1.08
unico	242.349*	AVE 50	31.01	233.30	234.20	234.14	234.45	0.035969	3.24	17.99	28.10	1.16
unico	242.349*	AVE 100	40.51	233.30	234.32	234.27	234.62	0.035775	3.56	21.52	29.03	1.19
unico	242.349*	AVE 500	65.91	233.30	234.61	234.55	235.01	0.034749	4.20	30.01	30.83	1.23
unico	238.133*	MCO	3.89	233.21	233.54	233.49	233.59	0.035473	1.44	4.70	22.44	0.95
unico	238.133*	AVE 10	14.70	233.21	233.80	233.73	233.94	0.036745	2.42	11.08	25.76	1.09
unico	238.133*	AVE 50	31.01	233.21	234.07	233.99	234.30	0.035699	3.17	18.28	28.18	1.15
unico	238.133*	AVE 100	40.51	233.21	234.20	234.11	234.47	0.034757	3.47	22.00	29.19	1.17
unico	238.133*	AVE 500	65.91	233.21	234.50	234.39	234.86	0.032465	4.06	31.07	31.17	1.18
unico	233.918*	MCO	3.89	233.13	233.39	233.33	233.44	0.038684	1.35	4.75	22.75	0.96
unico	233.918*	AVE 10	14.70	233.13	233.67	233.57	233.79	0.035530	2.30	11.42	25.93	1.06
unico	233.918*	AVE 50	31.01	233.13	233.95	233.82	234.15	0.032240	2.99	19.19	28.57	1.09
unico	233.918*	AVE 100	40.51	233.13	234.09	233.94	234.32	0.030876	3.27	23.24	29.79	1.10
unico	233.918*	AVE 500	65.91	233.13	234.41	234.23	234.72	0.027727	3.81	33.29	32.12	1.10
unico	229.7029	MCO	3.89	233.05	233.26		233.30	0.030076	1.11	5.28	23.23	0.83
unico	229.7029	AVE 10	14.70	233.05	233.56		233.65	0.027244	2.02	12.69	26.55	0.93
unico	229.7029	AVE 50	31.01	233.05	233.87	233.65	234.02	0.025103	2.69	21.30	29.84	0.97
unico	229.7029	AVE 100	40.51	233.05	234.01	233.77	234.20	0.024051	2.96	25.84	31.36	0.98
unico	229.7029	AVE 500	65.91	233.05	234.36	234.06	234.60	0.021115	3.43	37.19	33.62	0.97
unico	224.937*	MCO	3.89	232.86	233.11		233.15	0.032274	1.27	4.95	21.41	0.88
unico	224.937*	AVE 10	14.70	232.86	233.41	233.28	233.52	0.029247	2.18	12.01	25.27	0.98
unico	224.937*	AVE 50	31.01	232.86	233.72	233.54	233.90	0.026824	2.87	20.31	28.65	1.01
unico	224.937*	AVE 100	40.51	232.86	233.87	233.66	234.08	0.025483	3.13	24.79	30.31	1.01
unico	224.937*	AVE 500	65.91	232.86	234.24	233.95	234.50	0.021201	3.55	36.77	33.57	0.98
unico	220.172*	MCO	3.89	232.68	232.93	232.85	232.98	0.039110	1.43	4.46	19.53	0.98
unico	220.172*	AVE 10	14.70	232.68	233.24	233.13	233.37	0.032049	2.34	11.30	23.91	1.03
unico	220.172*	AVE 50	31.01	232.68	233.56	233.41	233.77	0.028442	3.02	19.41	27.34	1.05
unico	220.172*	AVE 100	40.51	232.68	233.72	233.54	233.96	0.026115	3.25	24.01	29.12	1.03

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	220.172*	AVE 500	65.91	232.68	234.13	233.83	234.40	0.020658	3.62	36.63	33.35	0.97
unico	215.406*	MCO	3.89	232.50	232.75	232.67	232.80	0.037901	1.41	4.30	17.51	0.96
unico	215.406*	AVE 10	14.70	232.50	233.06	232.97	233.21	0.035814	2.49	10.58	22.18	1.09
unico	215.406*	AVE 50	31.01	232.50	233.42	233.27	233.63	0.027054	3.04	19.26	26.26	1.03
unico	215.406*	AVE 100	40.51	232.50	233.61	233.40	233.84	0.023636	3.22	24.29	28.24	0.99
unico	215.406*	AVE 500	65.91	232.50	234.04		234.31	0.018332	3.56	37.53	32.93	0.93
unico	210.641*	MCO	3.89	232.32	232.55	232.48	232.61	0.044349	1.46	4.04	16.68	1.03
unico	210.641*	AVE 10	14.70	232.32	232.92	232.78	233.06	0.030480	2.39	10.88	21.12	1.01
unico	210.641*	AVE 50	31.01	232.32	233.32		233.52	0.021365	2.87	20.43	25.67	0.93
unico	210.641*	AVE 100	40.51	232.32	233.52		233.73	0.018819	3.05	25.75	27.77	0.90
unico	210.641*	AVE 500	65.91	232.32	233.97		234.22	0.015181	3.41	39.38	32.63	0.85
unico	205.8760	MCO	3.89	232.14	232.43		232.47	0.020629	1.18	5.11	17.01	0.73
unico	205.8760	AVE 10	14.70	232.14	232.84		232.94	0.017638	2.04	12.80	21.03	0.79
unico	205.8760	AVE 50	31.01	232.14	233.27		233.42	0.014636	2.58	22.84	25.54	0.78
unico	205.8760	AVE 100	40.51	232.14	233.47		233.65	0.013673	2.79	28.26	27.67	0.78
unico	205.8760	AVE 500	65.91	232.14	233.93		234.15	0.012022	3.20	42.08	32.52	0.77
unico	200.878*	MCO	3.89	231.91	232.30		232.36	0.021328	1.46	4.56	15.73	0.78
unico	200.878*	AVE 10	14.70	231.91	232.70		232.84	0.019175	2.30	11.59	19.20	0.84
unico	200.878*	AVE 50	31.01	231.91	233.13		233.34	0.016720	2.89	20.78	23.95	0.85
unico	200.878*	AVE 100	40.51	231.91	233.34		233.57	0.015376	3.09	26.02	26.13	0.84
unico	200.878*	AVE 500	65.91	231.91	233.81		234.09	0.013178	3.47	39.41	30.83	0.81
unico	195.881*	MCO	3.89	231.68	232.09	232.08	232.22	0.035716	1.92	3.29	12.94	1.02
unico	195.881*	AVE 10	14.70	231.68	232.55		232.74	0.020449	2.51	10.57	17.81	0.88
unico	195.881*	AVE 50	31.01	231.68	232.97		233.25	0.018460	3.15	18.96	21.99	0.90
unico	195.881*	AVE 100	40.51	231.68	233.18		233.48	0.017303	3.38	23.74	24.19	0.89
unico	195.881*	AVE 500	65.91	231.68	233.66		234.01	0.014594	3.75	36.54	28.92	0.86
unico	190.884*	MCO	3.89	231.46	231.88	231.88	232.04	0.036251	1.99	2.91	10.35	1.03
unico	190.884*	AVE 10	14.70	231.46	232.32	232.32	232.61	0.027828	2.92	8.77	15.83	1.03
unico	190.884*	AVE 50	31.01	231.46	232.79	232.71	233.14	0.021044	3.43	17.10	20.17	0.97
unico	190.884*	AVE 100	40.51	231.46	233.01	232.90	233.39	0.019130	3.63	21.74	22.24	0.94
unico	190.884*	AVE 500	65.91	231.46	233.50		233.93	0.015907	4.00	33.93	26.89	0.90
unico	185.887*	MCO	3.89	231.23	231.76	231.67	231.86	0.017198	1.60	3.59	10.10	0.74
unico	185.887*	AVE 10	14.70	231.23	232.25	232.14	232.48	0.017121	2.56	9.84	15.15	0.83
unico	185.887*	AVE 50	31.01	231.23	232.70		233.04	0.016947	3.29	17.64	19.44	0.88
unico	185.887*	AVE 100	40.51	231.23	232.90		233.30	0.016991	3.59	21.71	21.27	0.90
unico	185.887*	AVE 500	65.91	231.23	233.36	233.20	233.84	0.016311	4.15	32.24	25.19	0.92
unico	180.8905	MCO	3.89	231.00	231.76		231.80	0.004496	1.05	5.64	11.09	0.40
unico	180.8905	AVE 10	14.70	231.00	232.25		232.40	0.008836	2.10	12.06	15.40	0.62
unico	180.8905	AVE 50	31.01	231.00	232.67		232.96	0.011659	2.97	19.47	19.23	0.75
unico	180.8905	AVE 100	40.51	231.00	232.86		233.21	0.012750	3.34	23.24	20.90	0.79
unico	180.8905	AVE 500	65.91	231.00	233.29		233.76	0.014046	4.04	32.88	24.36	0.86
unico	176.976*	MCO	3.89	231.05	231.74		231.78	0.006155	1.13	5.35	11.41	0.46
unico	176.976*	AVE 10	14.70	231.05	232.20		232.36	0.011094	2.21	11.49	15.38	0.68
unico	176.976*	AVE 50	31.01	231.05	232.61		232.91	0.014231	3.10	18.56	19.16	0.81
unico	176.976*	AVE 100	40.51	231.05	232.79		233.16	0.015251	3.47	22.23	20.68	0.86
unico	176.976*	AVE 500	65.91	231.05	233.20		233.70	0.016458	4.18	31.49	24.02	0.92
unico	173.061*	MCO	3.89	231.10	231.70		231.75	0.008749	1.21	5.02	11.65	0.53
unico	173.061*	AVE 10	14.70	231.10	232.14		232.31	0.014476	2.32	10.85	15.45	0.76
unico	173.061*	AVE 50	31.01	231.10	232.53		232.84	0.017773	3.24	17.60	18.99	0.89
unico	173.061*	AVE 100	40.51	231.10	232.70	232.56	233.09	0.018983	3.63	21.02	20.45	0.94
unico	173.061*	AVE 500	65.91	231.10	233.10	232.98	233.63	0.020147	4.37	29.85	23.90	1.01
unico	169.147*	MCO	3.89	231.16	231.66		231.71	0.014014	1.30	4.56	11.95	0.65
unico	169.147*	AVE 10	14.70	231.16	232.06		232.24	0.019678	2.44	10.20	15.73	0.86
unico	169.147*	AVE 50	31.01	231.16	232.42	232.31	232.76	0.023907	3.43	16.43	19.03	1.01
unico	169.147*	AVE 100	40.51	231.16	232.55	232.50	233.00	0.027636	3.96	18.99	20.21	1.11
unico	169.147*	AVE 500	65.91	231.16	232.91	232.91	233.53	0.028948	4.77	26.90	23.45	1.18
unico	165.2326	MCO	3.89	231.21	231.53	231.46	231.62	0.046074	1.58	3.27	12.24	1.07
unico	165.2326	AVE 10	14.70	231.21	231.85	231.85	232.12	0.053414	3.05	7.79	15.70	1.33
unico	165.2326	AVE 50	31.01	231.21	232.21	232.21	232.63	0.044868	3.93	13.87	18.62	1.33
unico	165.2326	AVE 100	40.51	231.21	232.39	232.39	232.87	0.040012	4.21	17.52	20.39	1.29
unico	165.2326	AVE 500	65.91	231.21	232.72	232.79	233.39	0.041459	5.11	24.67	23.42	1.37
unico	160.377*	MCO	3.89	230.81	231.20	231.20	231.35	0.066211	2.08	2.69	10.75	1.31
unico	160.377*	AVE 10	14.70	230.81	231.60	231.60	231.89	0.041482	3.08	8.12	15.53	1.21
unico	160.377*	AVE 50	31.01	230.81	231.94	231.99	232.41	0.042597	4.09	13.74	18.50	1.31
unico	160.377*	AVE 100	40.51	230.81	232.08	232.17	232.66	0.043782	4.55	16.55	19.85	1.36
unico	160.377*	AVE 500	65.91	230.81	232.44	232.57	233.18	0.041655	5.32	24.15	23.00	1.39
unico	155.523*	MCO	3.89	230.41	230.92	230.92	231.08	0.046329	2.09	2.75	10.08	1.14
unico	155.523*	AVE 10	14.70	230.41	231.29	231.36	231.67	0.047234	3.43	7.34	14.64	1.30
unico	155.523*	AVE 50	31.01	230.41	231.65	231.76	232.20	0.042709	4.30	13.30	18.03	1.33

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	155.523*	AVE 100	40.51	230.41	231.81	231.94	232.44	0.042369	4.70	16.30	19.43	1.36
unico	155.523*	AVE 500	65.91	230.41	232.17	232.34	232.98	0.040776	5.47	23.84	22.55	1.39
unico	150.6685	MCO	3.89	230.02	230.54	230.60	230.80	0.072202	2.53	2.11	7.77	1.42
unico	150.6685	AVE 10	14.70	230.02	230.99	231.10	231.44	0.045930	3.59	7.01	14.16	1.30
unico	150.6685	AVE 50	31.01	230.02	231.36	231.51	231.99	0.042430	4.49	12.89	17.41	1.34
unico	150.6685	AVE 100	40.51	230.02	231.53	231.70	232.23	0.041581	4.86	15.94	18.85	1.36
unico	150.6685	AVE 500	65.91	230.02	231.90	232.11	232.77	0.039595	5.61	23.57	22.02	1.38
unico	145.901*	MCO	3.89	229.65	230.14	230.22	230.42	0.084733	2.64	1.99	7.58	1.52
unico	145.901*	AVE 10	14.70	229.65	230.51	230.72	231.14	0.074371	4.17	5.73	12.89	1.62
unico	145.901*	AVE 50	31.01	229.65	230.86	231.12	231.71	0.065047	5.14	10.91	16.64	1.63
unico	145.901*	AVE 100	40.51	229.65	231.01	231.31	231.97	0.062475	5.54	13.60	17.99	1.63
unico	145.901*	AVE 500	65.91	229.65	231.36	231.72	232.52	0.058040	6.34	20.31	20.96	1.64
unico	141.134*	MCO	3.89	229.28	229.77	229.83	230.03	0.078330	2.55	2.04	7.73	1.46
unico	141.134*	AVE 10	14.70	229.28	230.11	230.33	230.77	0.079631	4.23	5.53	12.66	1.67
unico	141.134*	AVE 50	31.01	229.28	230.44	230.74	231.38	0.073313	5.31	10.39	16.66	1.71
unico	141.134*	AVE 100	40.51	229.28	230.58	230.91	231.64	0.071354	5.75	12.92	17.96	1.73
unico	141.134*	AVE 500	65.91	229.28	230.91	231.31	232.20	0.067649	6.62	19.17	20.83	1.76
unico	136.367*	MCO	3.89	228.91	229.38	229.45	229.65	0.081875	2.56	2.01	7.74	1.49
unico	136.367*	AVE 10	14.70	228.91	229.72	229.94	230.39	0.081080	4.22	5.45	12.47	1.68
unico	136.367*	AVE 50	31.01	228.91	230.04	230.35	231.01	0.077348	5.37	10.17	16.91	1.75
unico	136.367*	AVE 100	40.51	228.91	230.18	230.52	231.28	0.076098	5.83	12.62	18.24	1.78
unico	136.367*	AVE 500	65.91	228.91	230.48	230.92	231.86	0.073638	6.76	18.64	21.11	1.82
unico	131.600*	MCO	3.89	228.54	229.00	229.07	229.26	0.080165	2.52	2.03	7.85	1.47
unico	131.600*	AVE 10	14.70	228.54	229.34	229.56	230.00	0.081308	4.18	5.42	12.42	1.68
unico	131.600*	AVE 50	31.01	228.54	229.64	229.96	230.64	0.079643	5.38	10.09	17.40	1.77
unico	131.600*	AVE 100	40.51	228.54	229.78	230.14	230.91	0.078986	5.85	12.52	18.85	1.81
unico	131.600*	AVE 500	65.91	228.54	230.07	230.51	231.49	0.077927	6.82	18.45	21.90	1.87
unico	126.8340	MCO	3.89	228.17	228.62	228.69	228.88	0.080356	2.49	2.04	7.94	1.47
unico	126.8340	AVE 10	14.70	228.17	228.96	229.18	229.61	0.081350	4.14	5.40	12.42	1.67
unico	126.8340	AVE 50	31.01	228.17	229.25	229.58	230.25	0.080877	5.36	10.13	18.46	1.78
unico	126.8340	AVE 100	40.51	228.17	229.38	229.75	230.52	0.081103	5.85	12.60	20.23	1.82
unico	126.8340	AVE 500	65.91	228.17	229.65	230.14	231.11	0.082438	6.87	18.59	23.97	1.91
unico	122.728*	MCO	3.89	227.89	228.31	228.38	228.56	0.074530	2.45	2.13	8.82	1.42
unico	122.728*	AVE 10	14.70	227.89	228.63	228.83	229.27	0.083078	4.15	5.51	12.82	1.69
unico	122.728*	AVE 50	31.01	227.89	228.93	229.25	229.92	0.081602	5.36	10.18	18.52	1.79
unico	122.728*	AVE 100	40.51	227.89	229.05	229.41	230.19	0.082130	5.86	12.61	20.24	1.83
unico	122.728*	AVE 500	65.91	227.89	229.32	229.78	230.76	0.083264	6.87	18.51	23.75	1.92
unico	118.622*	MCO	3.89	227.60	227.99	228.06	228.24	0.079223	2.49	2.16	9.53	1.46
unico	118.622*	AVE 10	14.70	227.60	228.29	228.50	228.92	0.085114	4.14	5.66	13.52	1.71
unico	118.622*	AVE 50	31.01	227.60	228.57	228.89	229.57	0.088384	5.43	10.00	17.86	1.85
unico	118.622*	AVE 100	40.51	227.60	228.70	229.06	229.84	0.087527	5.91	12.39	19.69	1.89
unico	118.622*	AVE 500	65.91	227.60	228.97	229.43	230.42	0.086849	6.91	18.19	23.09	1.95
unico	114.5166	MCO	3.89	227.32	227.78	227.74	227.89	0.024758	1.70	3.49	12.00	0.86
unico	114.5166	AVE 10	14.70	227.32	227.96	228.14	228.56	0.088837	4.12	5.85	14.49	1.73
unico	114.5166	AVE 50	31.01	227.32	228.21	228.52	229.19	0.095289	5.45	9.93	17.51	1.91
unico	114.5166	AVE 100	40.51	227.32	228.33	228.69	229.46	0.094800	5.96	12.16	18.92	1.95
unico	114.5166	AVE 500	65.91	227.32	228.61	229.08	230.05	0.091974	6.95	17.80	22.15	2.00
unico	109.523*	MCO	3.89	227.23	227.65	227.62	227.76	0.027358	1.73	3.66	13.01	0.90
unico	109.523*	AVE 10	14.70	227.23	228.00	228.00	228.26	0.032053	2.89	9.24	18.55	1.08
unico	109.523*	AVE 50	31.01	227.23	228.27	228.35	228.73	0.041877	4.06	14.46	21.23	1.30
unico	109.523*	AVE 100	40.51	227.23	228.36	228.50	228.97	0.049490	4.70	16.55	22.23	1.44
unico	109.523*	AVE 500	65.91	227.23	228.59	228.86	229.52	0.061836	5.96	21.85	24.59	1.66
unico	104.530*	MCO	3.89	227.14	227.51	227.47	227.60	0.032794	1.76	3.84	15.36	0.96
unico	104.530*	AVE 10	14.70	227.14	227.78	227.81	228.06	0.050838	3.22	8.46	18.77	1.32
unico	104.530*	AVE 50	31.01	227.14	228.10	228.13	228.50	0.044155	3.99	14.99	21.81	1.32
unico	104.530*	AVE 100	40.51	227.14	228.28	228.29	228.70	0.037859	4.17	19.15	23.57	1.26
unico	104.530*	AVE 500	65.91	227.14	228.65	228.63	229.16	0.033439	4.74	28.36	26.82	1.25
unico	99.53709	MCO	3.89	227.05	227.31	227.28	227.39	0.054125	1.82	3.71	16.49	1.18
unico	99.53709	AVE 10	14.70	227.05	227.65	227.58	227.83	0.037859	2.74	9.93	19.60	1.14
unico	99.53709	AVE 50	31.01	227.05	228.02	227.89	228.28	0.030517	3.40	17.75	22.91	1.11
unico	99.53709	AVE 100	40.51	227.05	228.20	228.04	228.49	0.027987	3.65	22.03	24.52	1.09
unico	99.53709	AVE 500	65.91	227.05	228.62	228.38	228.97	0.023215	4.10	33.19	28.23	1.05
unico	95.2228*	MCO	3.89	226.70	227.08	227.08	227.20	0.037360	1.93	3.59	15.08	1.04
unico	95.2228*	AVE 10	14.70	226.70	227.41	227.41	227.66	0.038014	3.03	9.03	17.84	1.17
unico	95.2228*	AVE 50	31.01	226.70	227.74	227.74	228.12	0.036260	3.86	15.48	20.56	1.22
unico	95.2228*	AVE 100	40.51	226.70	227.90	227.90	228.34	0.035842	4.21	18.78	21.81	1.24
unico	95.2228*	AVE 500	65.91	226.70	228.25	228.25	228.83	0.034605	4.93	27.02	24.78	1.27
unico	90.9086*	MCO	3.89	226.35	226.69	226.76	226.95	0.088827	2.63	2.27	10.63	1.55
unico	90.9086*	AVE 10	14.70	226.35	227.08	227.17	227.46	0.049011	3.45	7.50	15.80	1.33

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	90.9086*	AVE 50	31.01	226.35	227.45	227.53	227.95	0.040015	4.15	13.88	18.76	1.29
unico	90.9086*	AVE 100	40.51	226.35	227.64	227.70	228.17	0.036201	4.39	17.50	20.25	1.26
unico	90.9086*	AVE 500	65.91	226.35	228.05	228.09	228.68	0.031252	4.94	26.47	23.55	1.22
unico	86.59440	MCO	3.89	226.00	226.51	226.44	226.60	0.019370	1.59	3.74	11.27	0.77
unico	86.59440	AVE 10	14.70	226.00	226.91	226.85	227.16	0.025122	2.79	8.88	14.77	0.98
unico	86.59440	AVE 50	31.01	226.00	227.26	227.26	227.70	0.028678	3.78	14.66	17.77	1.11
unico	86.59440	AVE 100	40.51	226.00	227.30	227.45	227.99	0.043746	4.76	15.29	18.06	1.38
unico	86.59440	AVE 500	65.91	226.00	227.71	227.87	228.52	0.036996	5.32	23.49	21.49	1.33
unico	82.6006*	MCO	3.89	225.98	226.44		226.52	0.020932	1.55	3.83	11.83	0.79
unico	82.6006*	AVE 10	14.70	225.98	226.81	226.75	227.05	0.027773	2.78	8.91	15.53	1.02
unico	82.6006*	AVE 50	31.01	225.98	227.16	227.16	227.57	0.029821	3.71	15.07	19.06	1.12
unico	82.6006*	AVE 100	40.51	225.98	227.31	227.34	227.81	0.031719	4.16	17.94	20.28	1.18
unico	82.6006*	AVE 500	65.91	225.98	227.71	227.73	228.33	0.028514	4.74	26.85	23.71	1.17
unico	78.6068*	MCO	3.89	225.96	226.36		226.43	0.022706	1.48	3.96	12.78	0.81
unico	78.6068*	AVE 10	14.70	225.96	226.71	226.64	226.93	0.029284	2.69	9.16	16.45	1.03
unico	78.6068*	AVE 50	31.01	225.96	226.98	227.02	227.43	0.040026	3.92	14.04	19.17	1.27
unico	78.6068*	AVE 100	40.51	225.96	227.14	227.20	227.67	0.039613	4.31	17.14	20.66	1.30
unico	78.6068*	AVE 500	65.91	225.96	227.47	227.59	228.18	0.040234	5.15	24.38	23.61	1.36
unico	74.6130*	MCO	3.89	225.93	226.27		226.33	0.024065	1.38	4.17	14.30	0.81
unico	74.6130*	AVE 10	14.70	225.93	226.62	226.52	226.81	0.028592	2.53	9.73	17.63	1.00
unico	74.6130*	AVE 50	31.01	225.93	226.89	226.87	227.27	0.037649	3.67	14.87	19.98	1.22
unico	74.6130*	AVE 100	40.51	225.93	227.02	227.04	227.50	0.040728	4.16	17.51	21.18	1.30
unico	74.6130*	AVE 500	65.91	225.93	227.33	227.43	228.01	0.042535	5.06	24.57	24.21	1.39
unico	70.61932	MCO	3.89	225.91	226.11	226.07	226.19	0.058148	1.50	3.36	14.90	1.15
unico	70.61932	AVE 10	14.70	225.91	226.38	226.38	226.63	0.063840	2.96	7.83	17.50	1.41
unico	70.61932	AVE 50	31.01	225.91	226.71	226.71	227.10	0.049323	3.76	14.08	20.23	1.36
unico	70.61932	AVE 100	40.51	225.91	226.86	226.87	227.32	0.047672	4.15	17.10	21.36	1.38
unico	70.61932	AVE 500	65.91	225.91	227.19	227.24	227.81	0.044945	4.93	24.64	24.42	1.41
unico	66.3659*	MCO	3.89	225.53	225.75	225.75	225.89	0.084633	2.02	2.69	12.03	1.43
unico	66.3659*	AVE 10	14.70	225.53	226.11	226.12	226.40	0.049805	3.05	7.80	15.89	1.29
unico	66.3659*	AVE 50	31.01	225.53	226.46	226.49	226.90	0.043106	3.89	13.82	19.08	1.30
unico	66.3659*	AVE 100	40.51	225.53	226.62	226.66	227.13	0.040967	4.23	17.00	20.39	1.31
unico	66.3659*	AVE 500	65.91	225.53	226.99	227.04	227.64	0.036855	4.90	25.18	23.68	1.30
unico	62.1124*	MCO	3.89	225.15	225.44	225.45	225.59	0.062470	2.07	2.76	11.09	1.28
unico	62.1124*	AVE 10	14.70	225.15	225.75	225.84	226.15	0.062287	3.47	6.76	14.13	1.45
unico	62.1124*	AVE 50	31.01	225.15	226.10	226.22	226.69	0.051863	4.33	12.13	16.74	1.44
unico	62.1124*	AVE 100	40.51	225.15	226.29	226.42	226.93	0.046056	4.61	15.38	18.44	1.39
unico	62.1124*	AVE 500	65.91	225.15	226.69	226.82	227.47	0.038875	5.20	23.50	22.00	1.35
unico	57.8590*	MCO	3.89	224.77	225.09	225.13	225.29	0.075439	2.34	2.42	10.22	1.42
unico	57.8590*	AVE 10	14.70	224.77	225.43	225.54	225.88	0.062401	3.63	6.42	13.12	1.47
unico	57.8590*	AVE 50	31.01	224.77	225.77	225.94	226.46	0.054428	4.56	11.40	15.54	1.48
unico	57.8590*	AVE 100	40.51	224.77	225.94	226.12	226.72	0.051060	4.92	14.11	16.59	1.47
unico	57.8590*	AVE 500	65.91	224.77	226.37	226.58	227.28	0.041668	5.49	21.86	20.14	1.40
unico	53.6056*	MCO	3.89	224.40	224.75	224.81	224.98	0.069874	2.39	2.33	9.75	1.38
unico	53.6056*	AVE 10	14.70	224.40	225.10	225.24	225.61	0.063730	3.77	6.10	12.36	1.50
unico	53.6056*	AVE 50	31.01	224.40	225.44	225.65	226.21	0.057100	4.76	10.81	14.58	1.52
unico	53.6056*	AVE 100	40.51	224.40	225.62	225.86	226.48	0.053599	5.13	13.40	15.61	1.52
unico	53.6056*	AVE 500	65.91	224.40	226.01	226.29	227.08	0.047111	5.84	20.02	17.87	1.49
unico	49.35223	MCO	3.89	224.02	224.41	224.49	224.68	0.073167	2.50	2.16	9.31	1.42
unico	49.35223	AVE 10	14.70	224.02	224.76	224.92	225.33	0.065667	3.90	5.83	11.69	1.53
unico	49.35223	AVE 50	31.01	224.02	225.12	225.36	225.96	0.058565	4.90	10.41	13.92	1.55
unico	49.35223	AVE 100	40.51	224.02	225.29	225.56	226.25	0.055890	5.31	12.86	14.87	1.55
unico	49.35223	AVE 500	65.91	224.02	225.69	226.00	226.86	0.049657	6.06	19.17	17.00	1.54
unico	44.7436*	MCO	3.89	223.45	223.86	223.98	224.26	0.106313	2.94	1.59	6.55	1.70
unico	44.7436*	AVE 10	14.70	223.45	224.27	224.49	225.01	0.068934	4.18	4.96	9.75	1.58
unico	44.7436*	AVE 50	31.01	223.45	224.68	224.98	225.68	0.055450	5.08	9.40	11.85	1.53
unico	44.7436*	AVE 100	40.51	223.45	224.88	225.22	225.99	0.050449	5.41	11.94	12.99	1.50
unico	44.7436*	AVE 500	65.91	223.45	225.35	225.72	226.64	0.042376	6.06	18.60	15.62	1.44
unico	40.1349*	MCO	3.89	222.88	223.33	223.46	223.76	0.108417	2.98	1.49	6.04	1.72
unico	40.1349*	AVE 10	14.70	222.88	223.71	223.99	224.63	0.086695	4.56	4.24	8.23	1.75
unico	40.1349*	AVE 50	31.01	222.88	224.14	224.52	225.38	0.065673	5.47	8.19	10.27	1.65
unico	40.1349*	AVE 100	40.51	222.88	224.35	224.78	225.71	0.059195	5.83	10.42	11.16	1.62
unico	40.1349*	AVE 500	65.91	222.88	224.84	225.32	226.41	0.047294	6.43	16.47	13.26	1.52
unico	35.52638	MCO	3.89	222.31	222.82	222.95	223.25	0.109794	2.98	1.44	5.63	1.72
unico	35.52638	AVE 10	14.70	222.31	223.18	223.49	224.20	0.097455	4.73	3.96	7.75	1.84
unico	35.52638	AVE 50	31.01	222.31	223.59	224.04	225.03	0.078262	5.81	7.39	9.17	1.79
unico	35.52638	AVE 100	40.51	222.31	223.80	224.29	225.39	0.070094	6.19	9.38	9.95	1.74
unico	35.52638	AVE 500	65.91	222.31	224.30	224.88	226.15	0.055364	6.84	14.81	11.82	1.63
unico	30.8647*	MCO	3.89	221.54	222.12	222.29	222.66	0.141554	3.27	1.19	3.92	1.90

HEC-RAS Plan: Plan 02 River: zamans Reach: unico (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
unico	30.8647*	AVE 10	14.70	221.54	222.49	222.84	223.66	0.129512	4.84	3.26	7.27	2.03
unico	30.8647*	AVE 50	31.01	221.54	222.84	223.35	224.57	0.107961	6.04	6.16	9.17	2.00
unico	30.8647*	AVE 100	40.51	221.54	223.01	223.60	224.97	0.099675	6.49	7.78	9.86	1.98
unico	30.8647*	AVE 500	65.91	221.54	223.41	224.14	225.78	0.083128	7.31	12.12	11.58	1.90
unico	26.2030*	MCO	3.89	220.77	221.38	221.56	221.98	0.150580	3.44	1.13	3.53	1.94
unico	26.2030*	AVE 10	14.70	220.77	221.78	222.14	222.99	0.161440	4.86	3.02	5.89	2.17
unico	26.2030*	AVE 50	31.01	220.77	222.11	222.65	223.99	0.139978	6.11	5.35	8.46	2.17
unico	26.2030*	AVE 100	40.51	220.77	222.26	222.90	224.42	0.128336	6.59	6.76	9.55	2.14
unico	26.2030*	AVE 500	65.91	220.77	222.62	223.43	225.30	0.108678	7.49	10.51	11.33	2.08
unico	21.54136	MCO	3.89	220.00	220.62	220.82	221.26	0.157011	3.54	1.10	3.34	1.97
unico	21.54136	AVE 10	14.70	220.00	221.06	221.43	222.26	0.151166	4.86	3.02	5.46	2.09
unico	21.54136	AVE 50	31.01	220.00	221.39	221.94	223.27	0.166811	6.09	5.10	7.43	2.29
unico	21.54136	AVE 100	40.51	220.00	221.53	222.18	223.75	0.159917	6.61	6.23	8.40	2.30
unico	21.54136	AVE 500	65.91	220.00	221.86	222.71	224.72	0.136145	7.56	9.39	10.50	2.23

ANEXO II: PLANOS

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|--------------------------|-----------|
| 1. SITUACIÓN | (1hoja) |
| 2. LÁMINAS DE INUNDACIÓN | (4 hojas) |

