



PROVINCIA DI BRESCIA
Comune di Limone s/G

STUDIO IDRAULICO
TORRENTE SAN GIOVANNI
TRATTO "LA MILANESA-FOCE"

RELAZIONE IDRAULICA

DATA
Ottobre 2011

COMMITTENTE : COMUNE DI LIMONE SUL GARDA
via IV Novembre n.25 25010 Limone s/G -Bs-

Dott. Ing. Giuseppe Negrinelli

Via Rezzola, 10 - 25086 Rezzato (BS)
Tel. 030/2791696



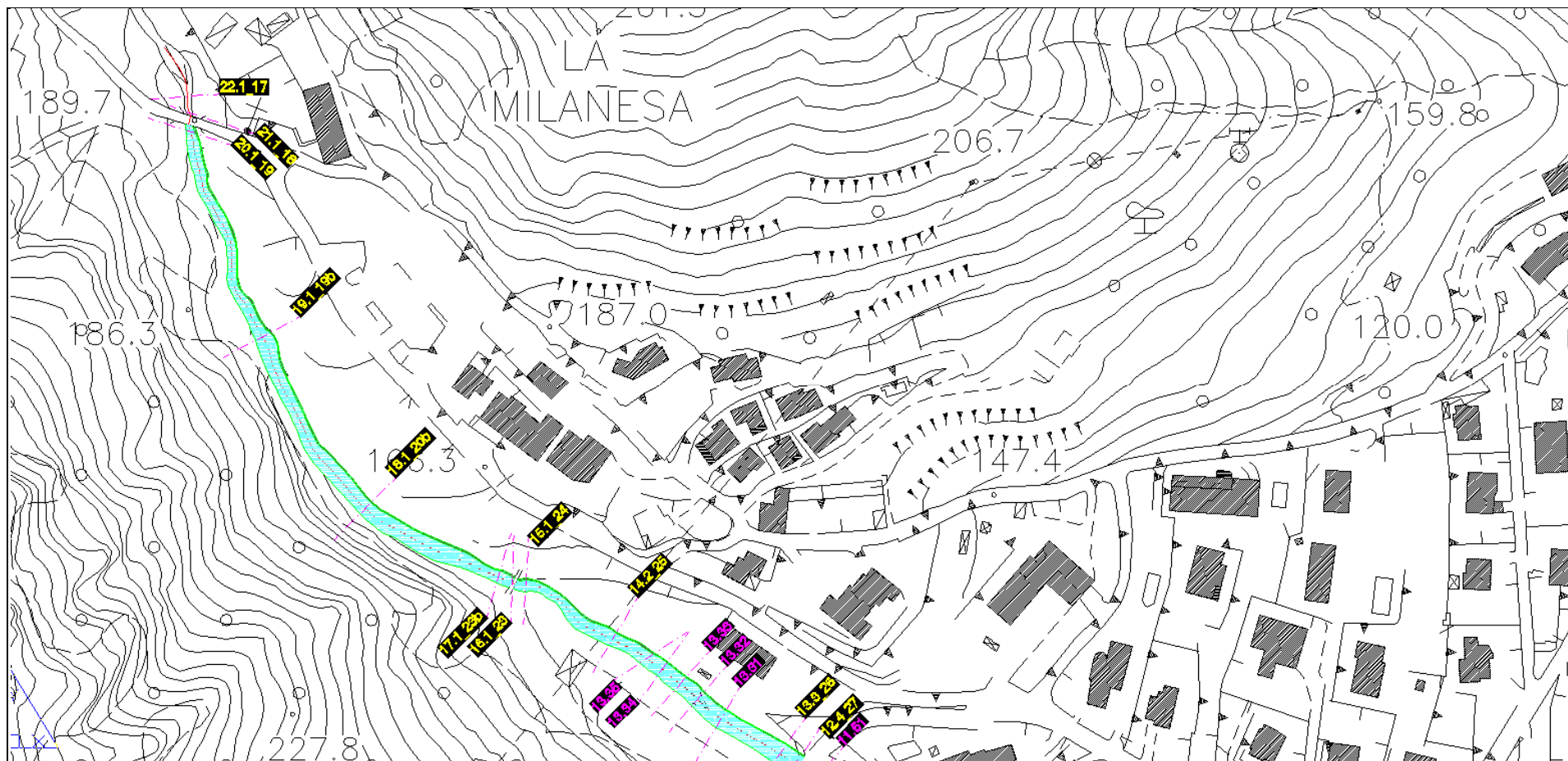
TORRENTE SAN GIOVANNI - LIMONE DEL GARDA (BS) - TRATTO DALLA LOCALITA' MILANESA ALLA FOCE IN LAGO



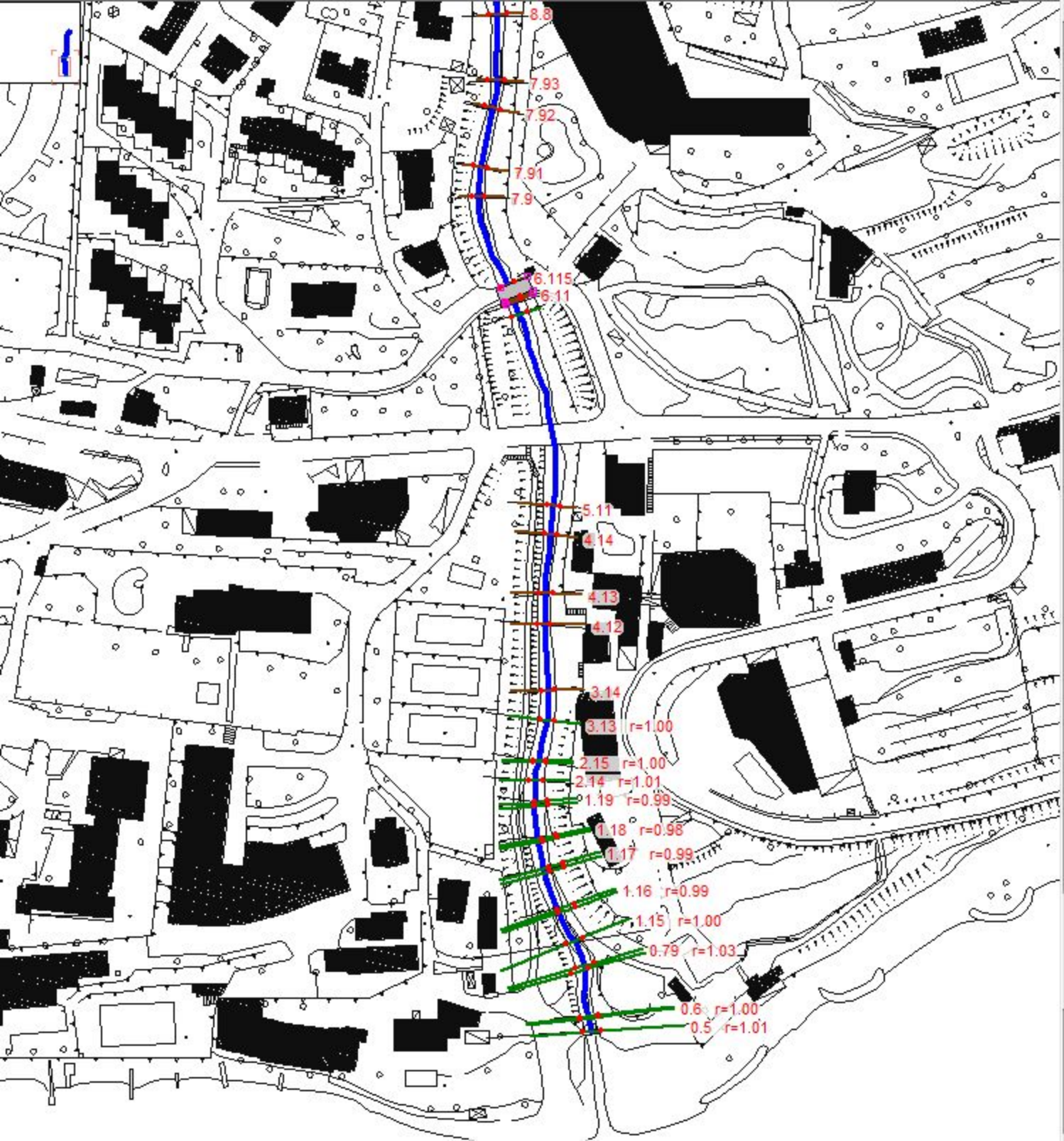
TORRENTE SAN GIOVANNI - LIMONE DEL GARDA (BS) - TRATTO DALLA LOCALITA' MILANESA ALLA FOCE IN LAGO

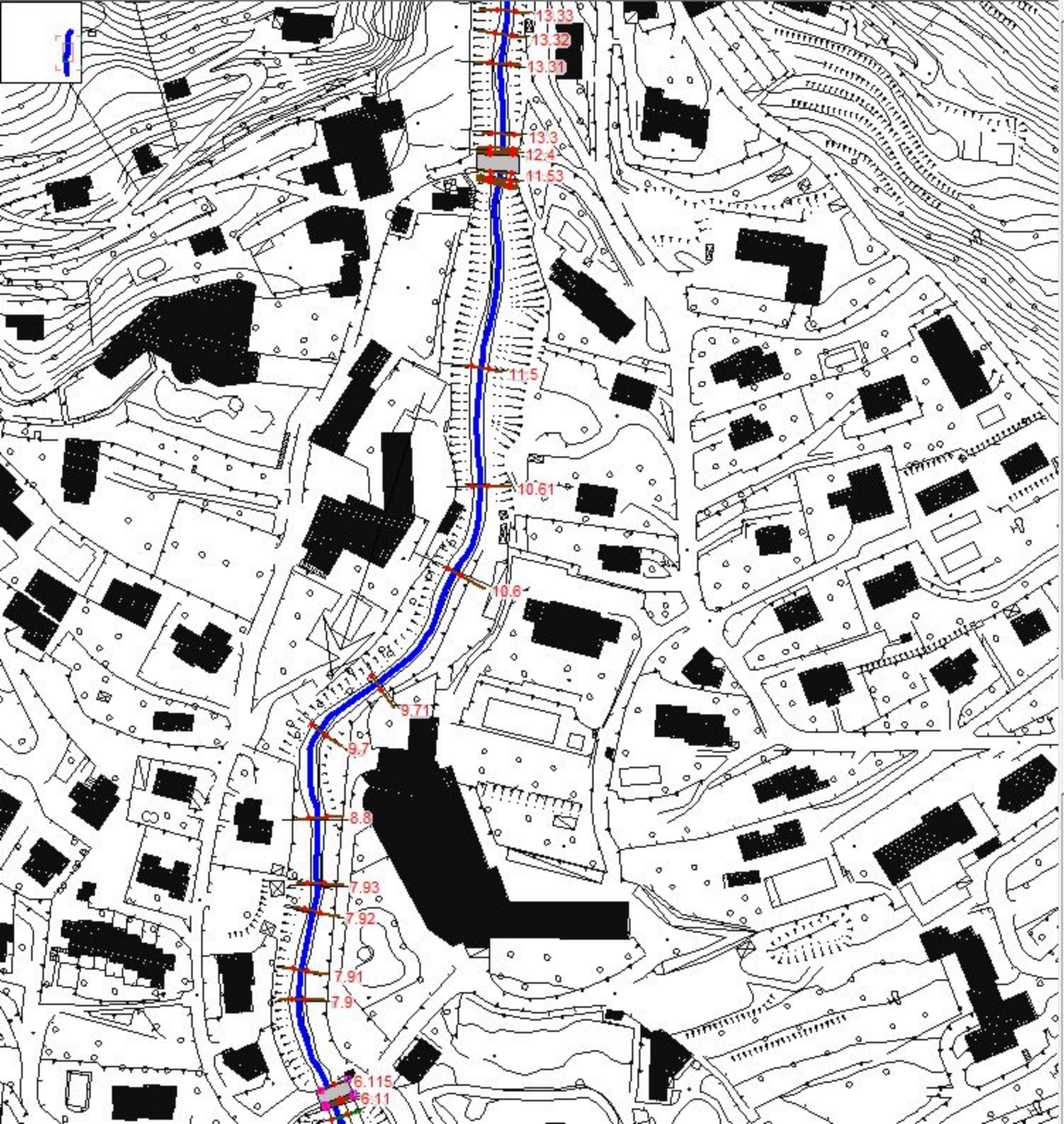


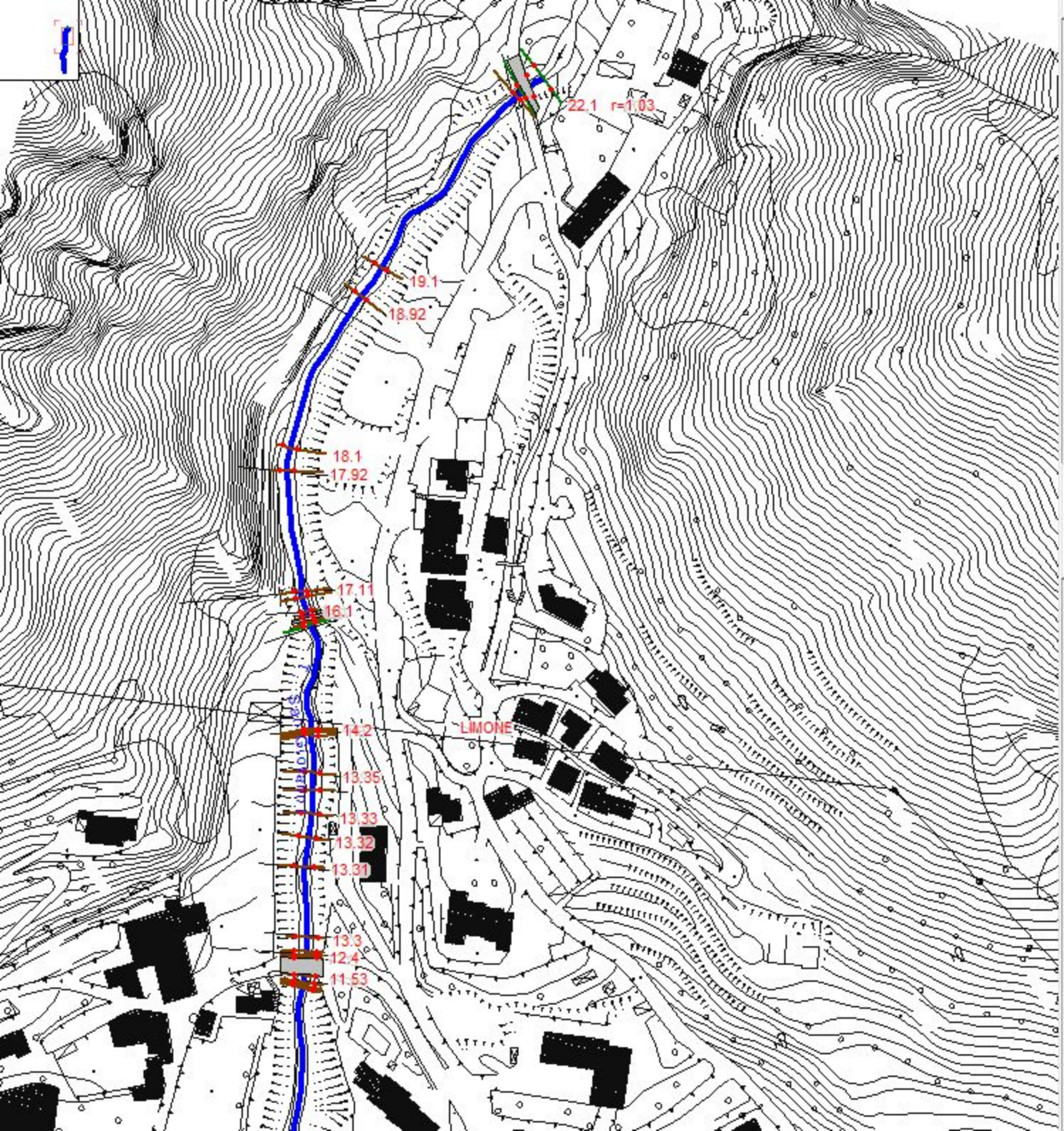
TORRENTE SAN GIOVANNI - LIMONE DEL GARDA (BS) - TRATTO DALLA LOCALITA' MILANESA ALLA FOCE IN LAGO



TORRENTE SAN GIOVANNI - LIMONE DEL GARDA (BS) - TRATTO DALLA LOCALITA' MILANESA ALLA FOCE IN LAGO









5.53428*

5.39285*

5.32214*

5.25142*

5.18071*

5.11

4.625*

4.14

4.1372*

4.1354*

4.1336*

4.1318*

4.13

4.123*

3.924*

3.728*

3.532*

3.336*

3.14

3.136*

3.133*

3.13 r=1.00

2.80333* r=1.00

2.47666* r=1.00

2.15 r=1.00

2.1445* r=1.00

1.665* r=1.00

1.189 r=0.99

1.183* r=0.99

1.179 r=0.98

1.173* r=0.98

1.169 r=0.99

1.166* r=0.99

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1.16 r=0.99

1.156* r=0.99

1.15 r=1.00

0.79 r=1.03

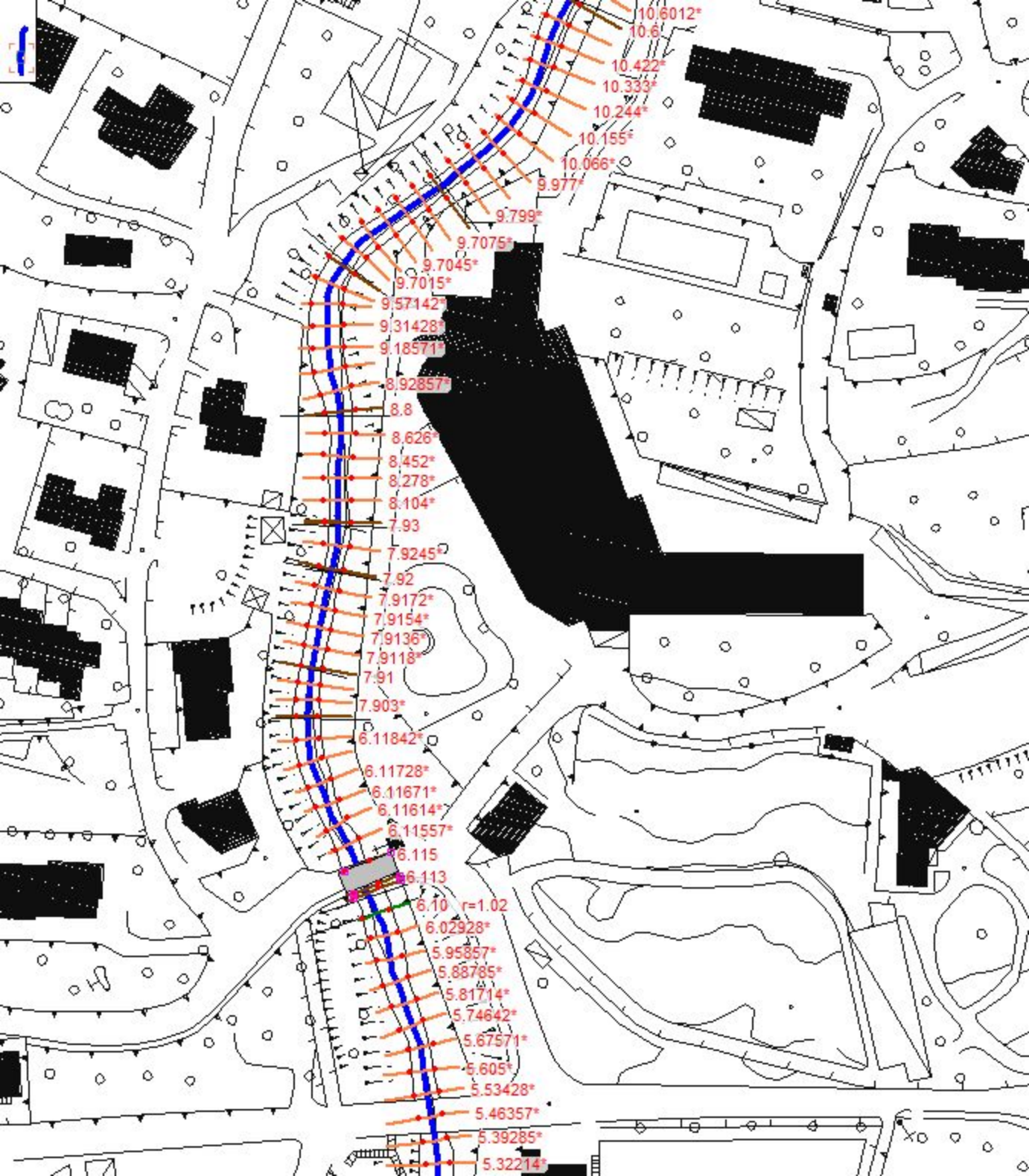
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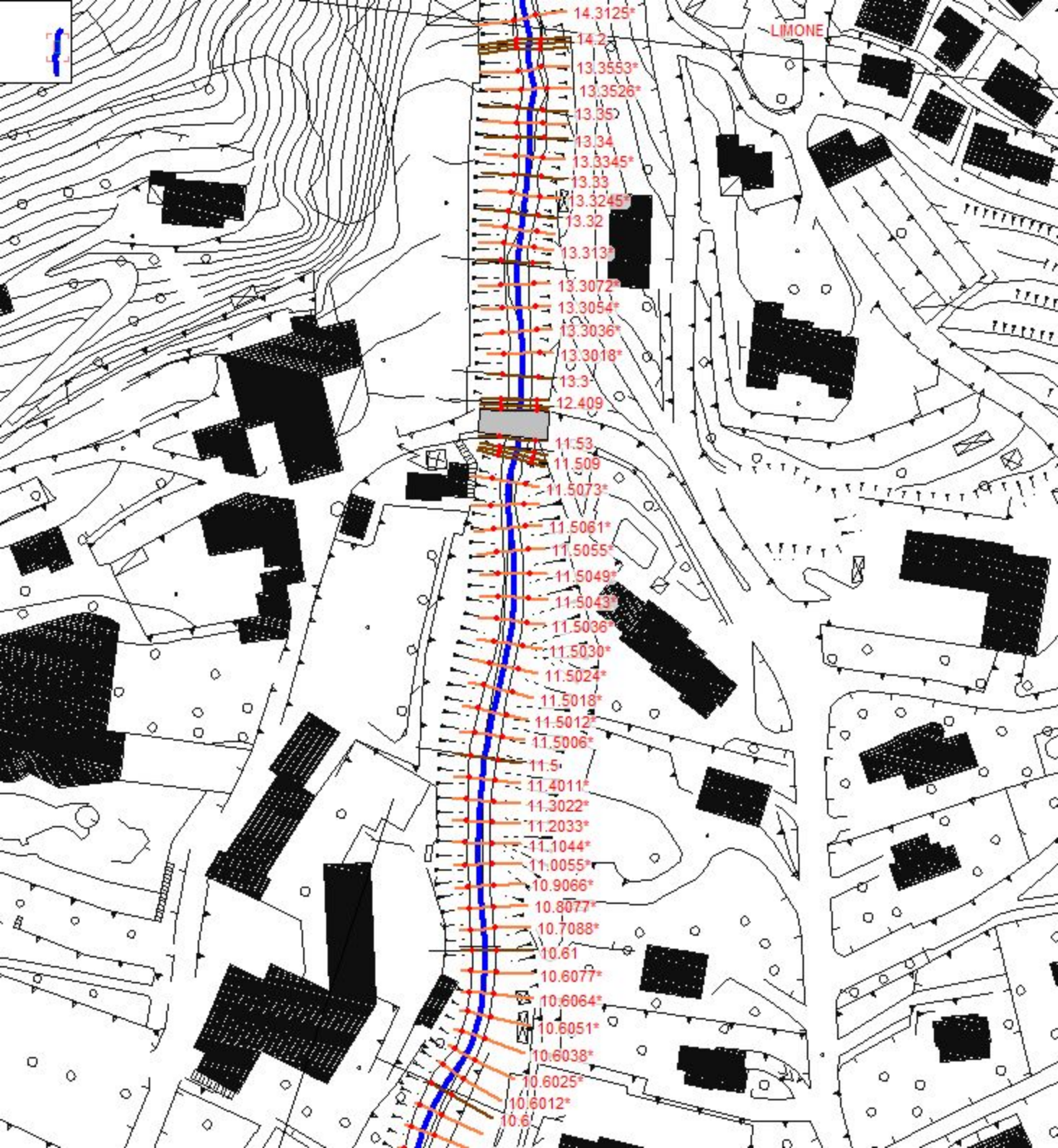
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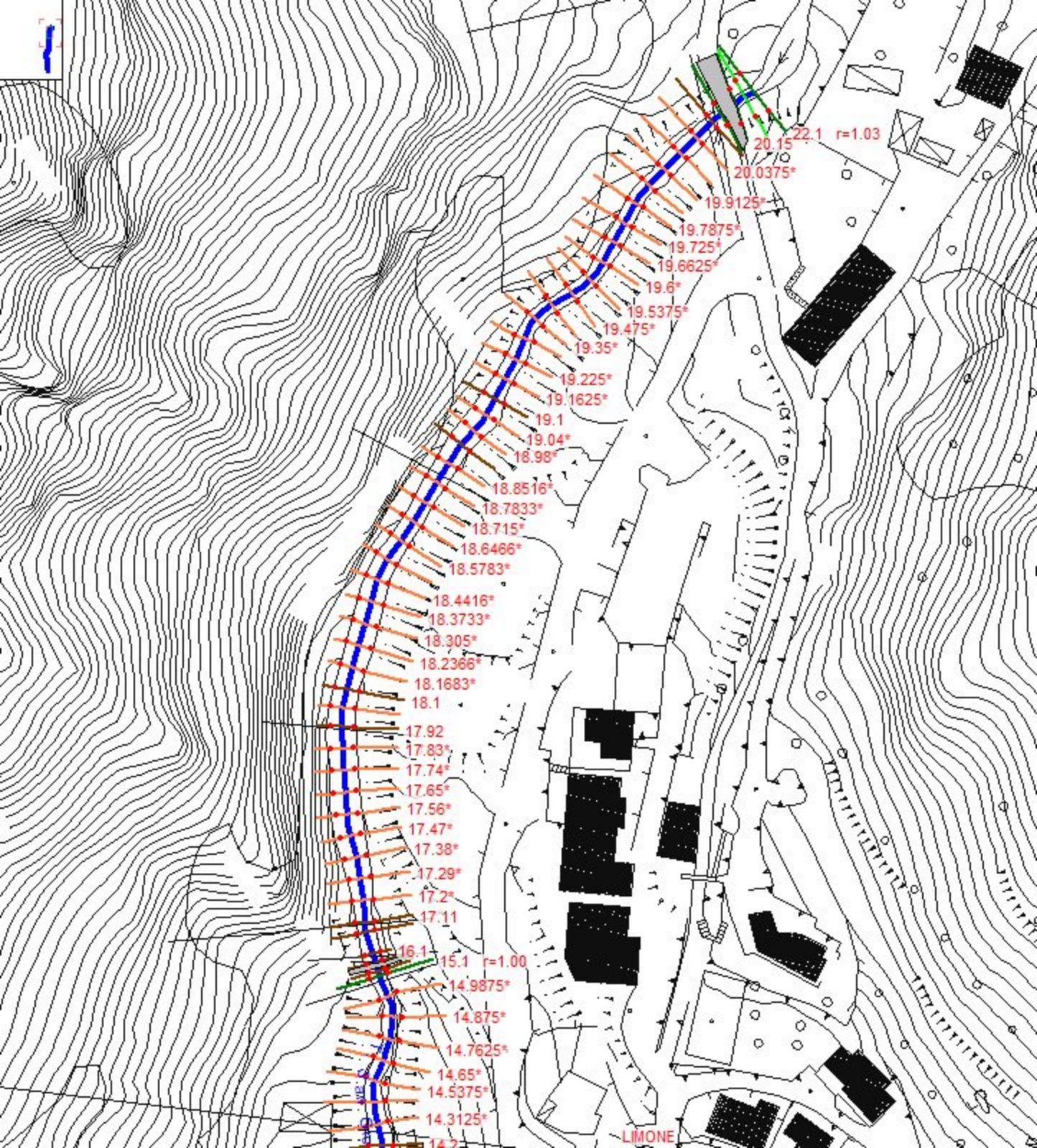
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0.6 r=1.00

0.545* r=1.00







VERIFICA TORRENTE SAN GIOVANNI LIMONE DEL GARDA _ BS

PROFILI DI CALCOLO

Enter/Edit Number of Profiles (25000 max): Reach Boundary Conditions ...

Locations of Flow Data Changes

River:

Reach: River Sta.:

Flow Change Location				Profile Names and Flow Rates			
	River	Reach	RS	Q. = 30.60 tr050	Q. = 36.10 tr100	Q. = 41.40 tr200	Q. = 49.70 tr500
1	T. San Giovanni	LIMONE	22.1	30.6	36.1	41.4	49.7

CONDIZIONI AL CONTORNO

Pendenza tratto a valle :

Sez. 0.5 (39) H fondo t. San Giovanni = 70.46

Sez. LAGO H fondo t. San Giovanni _ foce = 68.85

DI = 40.02

Dh = 1.61

i = 0.0423m/m

Pendenza tratto a monte :

Sez. (14) H fondo t. San Giovanni = 206.16

Sez. (17) H fondo t. San Giovanni = 190.20

DI = 72.37

Dh = 15.96

i = 0.2205m/m

Set boundary for all profiles Set boundary for one profile at a time

Available External Boundary Condition Types

Selected Boundary Condition Locations and Types

River	Reach	Profile	Upstream	Downstream
T. San Giovanni	LIMONE	all	Normal Depth S = 0.2205	Normal Depth S = 0.0423

Available External Boundary Condition Types

Selected Boundary Condition Locations and Types

River	Reach	Profile	Upstream	Downstream
Scarico leone	Collettore	all	Normal Depth S = 0.002	Normal Depth S = 0.0023

CALCOLO QUOTA DEL PELO LIBERO IN REGIME MISTO

Plan : Short ID :

Geometry File :

Steady Flow File :

Flow Regime
 Subcritical
 Supercritical
 Mixed

Plan Description :

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE

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
LIMONE	22.1	Q.= 30.60 tr050	30.60	190.20	190.96	191.67	194.17	0.220719	7.95	3.85	6.52	3.30
LIMONE	22.1	Q.= 36.10 tr100	36.10	190.20	191.03	191.80	194.58	0.220787	8.35	4.32	6.77	3.34
LIMONE	22.1	Q.= 41.40 tr200	41.40	190.20	191.09	191.93	194.94	0.220805	8.70	4.76	7.00	3.37
LIMONE	22.1	Q.= 49.70 tr500	49.70	190.20	191.18	192.12	195.47	0.220771	9.17	5.42	7.34	3.41
LIMONE	21.1	Q.= 30.60 tr050	30.60	189.72	190.45	191.15	193.23	0.120096	7.39	4.14	6.03	2.85
LIMONE	21.1	Q.= 36.10 tr100	36.10	189.72	190.53	191.30	193.64	0.119815	7.81	4.62	6.10	2.87
LIMONE	21.1	Q.= 41.40 tr200	41.40	189.72	190.60	191.45	194.00	0.119335	8.17	5.07	6.17	2.88
LIMONE	21.1	Q.= 49.70 tr500	49.70	189.72	190.71	191.66	194.52	0.118227	8.65	5.75	6.27	2.88
LIMONE	20.15		Bridge									
LIMONE	20.12	Q.= 30.60 tr050	30.60	189.41	191.17	191.17	191.81	0.017963	3.61	8.87	7.32	0.92
LIMONE	20.12	Q.= 36.10 tr100	36.10	189.41	191.37	191.37	192.03	0.016316	3.68	10.47	9.10	0.88
LIMONE	20.12	Q.= 41.40 tr200	41.40	189.41	191.55	191.55	192.21	0.014762	3.73	12.13	9.71	0.85
LIMONE	20.12	Q.= 49.70 tr500	49.70	189.41	191.75	191.75	192.46	0.014184	3.90	14.18	10.54	0.85
LIMONE	20.11	Q.= 30.60 tr050	30.60	188.64	189.83	190.40	191.69	0.080450	6.05	5.06	4.61	1.85
LIMONE	20.11	Q.= 36.10 tr100	36.10	188.64	190.01	190.59	191.91	0.071698	6.10	5.92	4.72	1.74
LIMONE	20.11	Q.= 41.40 tr200	41.40	188.64	190.19	190.82	192.09	0.064201	6.10	6.79	4.82	1.64
LIMONE	20.11	Q.= 49.70 tr500	49.70	188.64	190.49	191.12	192.34	0.054310	6.04	8.23	5.00	1.50
LIMONE	20.1	Q.= 30.60 tr050	30.60	188.59	190.13	190.53	191.36	0.043501	5.18	6.67	7.18	1.36
LIMONE	20.1	Q.= 36.10 tr100	36.10	188.59	190.23	190.68	191.62	0.045684	5.55	7.41	7.53	1.41
LIMONE	20.1	Q.= 41.40 tr200	41.40	188.59	190.33	190.82	191.84	0.046994	5.84	8.13	7.85	1.44
LIMONE	20.1	Q.= 49.70 tr500	49.70	188.59	190.45	191.02	192.18	0.049634	6.30	9.13	8.27	1.50
LIMONE	19.1	Q.= 30.60 tr050	30.60	175.16	176.90	176.90	177.40	0.010349	3.33	10.73	11.46	0.82
LIMONE	19.1	Q.= 36.10 tr100	36.10	175.16	175.84	177.03	183.41	0.380925	12.19	2.96	4.46	4.78
LIMONE	19.1	Q.= 41.40 tr200	41.40	175.16	175.93	177.14	183.68	0.343911	12.33	3.36	4.49	4.55
LIMONE	19.1	Q.= 49.70 tr500	49.70	175.16	176.07	177.30	184.01	0.299349	12.49	3.98	4.53	4.25
LIMONE	18.92	Q.= 30.60 tr050	30.60	173.58	174.57	175.30	176.95	0.081258	6.83	4.48	4.66	2.22
LIMONE	18.92	Q.= 36.10 tr100	36.10	173.58	174.39	175.43	179.38	0.206957	9.89	3.65	4.60	3.55
LIMONE	18.92	Q.= 41.40 tr200	41.40	173.58	174.47	175.52	179.88	0.204413	10.30	4.02	4.63	3.53
LIMONE	18.92	Q.= 49.70 tr500	49.70	173.58	174.60	175.75	180.55	0.198592	10.81	4.60	4.67	3.48
LIMONE	18.1	Q.= 30.60 tr050	30.60	165.92	166.64	167.59	170.34	0.167322	8.51	3.59	5.08	3.23
LIMONE	18.1	Q.= 36.10 tr100	36.10	165.92	166.82	167.72	170.08	0.117475	8.00	4.51	5.13	2.72
LIMONE	18.1	Q.= 41.40 tr200	41.40	165.92	166.90	167.83	170.51	0.119765	8.42	4.92	5.16	2.75

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	18.1	Q.= 49.70 tr500	49.70	165.92	167.02	167.98	171.15	0.123120	9.01	5.52	5.19	2.79
LIMONE	17.92	Q.= 30.60 tr050	30.60	164.70	165.47	166.43	169.03	0.154268	8.36	3.66	4.90	3.09
LIMONE	17.92	Q.= 36.10 tr100	36.10	164.70	165.61	166.57	169.10	0.126881	8.27	4.36	4.94	2.81
LIMONE	17.92	Q.= 41.40 tr200	41.40	164.70	165.69	166.68	169.52	0.127457	8.66	4.78	4.97	2.82
LIMONE	17.92	Q.= 49.70 tr500	49.70	164.70	165.82	166.83	170.14	0.128849	9.21	5.40	5.00	2.83
LIMONE	17.11	Q.= 30.60 tr050	30.60	159.15	160.12	160.97	163.34	0.118785	7.95	3.85	4.10	2.62
LIMONE	17.11	Q.= 36.10 tr100	36.10	159.15	160.22	161.11	163.88	0.123820	8.48	4.26	4.13	2.67
LIMONE	17.11	Q.= 41.40 tr200	41.40	159.15	160.32	161.29	164.30	0.123598	8.83	4.69	4.16	2.66
LIMONE	17.11	Q.= 49.70 tr500	49.70	159.15	160.45	161.58	164.89	0.124201	9.39	5.48	6.22	2.68
LIMONE	17.1	Q.= 30.60 tr050	30.60	158.88	159.85	160.70	163.10	0.119819	7.99	3.83	4.06	2.63
LIMONE	17.1	Q.= 36.10 tr100	36.10	158.88	159.96	160.85	163.64	0.124064	8.50	4.25	4.09	2.66
LIMONE	17.1	Q.= 41.40 tr200	41.40	158.88	160.06	161.02	164.05	0.123652	8.85	4.70	6.12	2.65
LIMONE	17.1	Q.= 49.70 tr500	49.70	158.88	160.19	161.32	164.64	0.124738	9.41	5.48	6.16	2.68
LIMONE	16.1	Q.= 30.60 tr050	30.60	157.22	158.34	159.40	162.38	0.148708	8.91	3.44	3.24	2.76
LIMONE	16.1	Q.= 36.10 tr100	36.10	157.22	158.47	159.64	162.91	0.149034	9.33	3.87	3.28	2.74
LIMONE	16.1	Q.= 41.40 tr200	41.40	157.22	158.60	159.87	163.34	0.143166	9.64	4.30	3.36	2.70
LIMONE	16.1	Q.= 49.70 tr500	49.70	157.22	158.79	160.19	163.95	0.129837	10.07	4.96	3.55	2.63
LIMONE	15.15	Q.= 30.60 tr050	30.60	156.81	157.81	158.84	162.06	0.163693	9.13	3.35	3.50	2.98
LIMONE	15.15	Q.= 36.10 tr100	36.10	156.81	157.93	159.03	162.58	0.162413	9.56	3.78	3.54	2.95
LIMONE	15.15	Q.= 41.40 tr200	41.40	156.81	158.05	159.19	163.02	0.158248	9.88	4.19	3.68	2.91
LIMONE	15.15	Q.= 49.70 tr500	49.70	156.81	158.21	159.45	163.66	0.149558	10.37	4.90	5.13	2.87
LIMONE	15.14		Bridge									
LIMONE	15.13	Q.= 30.60 tr050	30.60	156.81	158.84	158.84	159.59	0.013126	3.98	8.38	5.82	0.91
LIMONE	15.13	Q.= 36.10 tr100	36.10	156.81	159.03	159.03	159.85	0.012793	4.18	9.51	6.00	0.91
LIMONE	15.13	Q.= 41.40 tr200	41.40	156.81	159.19	159.19	160.08	0.012751	4.38	10.50	6.15	0.92
LIMONE	15.13	Q.= 49.70 tr500	49.70	156.81	159.45	159.45	160.42	0.012360	4.62	12.11	6.53	0.92
LIMONE	15.1	Q.= 30.60 tr050	30.60	156.19	157.42	158.03	159.44	0.059645	6.37	4.99	5.39	1.88
LIMONE	15.1	Q.= 36.10 tr100	36.10	156.19	157.55	158.18	159.70	0.056842	6.62	5.81	7.47	1.85
LIMONE	15.1	Q.= 41.40 tr200	41.40	156.19	157.65	158.31	159.92	0.055596	6.87	6.56	7.55	1.85
LIMONE	15.1	Q.= 49.70 tr500	49.70	156.19	157.78	158.51	160.25	0.054537	7.24	7.60	7.71	1.87
LIMONE	14.2	Q.= 30.60 tr050	30.60	151.39	152.17	153.15	155.87	0.158302	8.52	3.59	4.72	3.12

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	14.2	Q.= 36.10 tr100	36.10	151.39	152.28	153.30	156.27	0.150874	8.85	4.08	4.75	3.05
LIMONE	14.2	Q.= 41.40 tr200	41.40	151.39	152.37	153.40	156.59	0.143558	9.10	4.55	4.79	2.98
LIMONE	14.2	Q.= 49.70 tr500	49.70	151.39	152.52	153.55	157.05	0.131649	9.44	5.31	5.53	2.88
LIMONE	13.359	Q.= 30.60 tr050	30.60	150.72	151.46	152.39	155.65	0.192074	9.07	3.37	4.66	3.40
LIMONE	13.359	Q.= 36.10 tr100	36.10	150.72	151.56	152.77	156.05	0.180994	9.40	3.84	4.68	3.31
LIMONE	13.359	Q.= 41.40 tr200	41.40	150.72	151.65	152.96	156.39	0.170983	9.64	4.30	4.71	3.22
LIMONE	13.359	Q.= 49.70 tr500	49.70	150.72	151.80	153.19	156.86	0.158948	9.96	4.99	4.74	3.10
LIMONE	13.358	Q.= 30.60 tr050	30.60	149.92	150.61	151.57	155.38	0.234958	9.68	3.16	4.64	3.74
LIMONE	13.358	Q.= 36.10 tr100	36.10	149.92	150.71	151.76	155.80	0.219156	10.00	3.61	4.66	3.62
LIMONE	13.358	Q.= 41.40 tr200	41.40	149.92	150.80	151.94	156.14	0.205783	10.24	4.04	4.67	3.51
LIMONE	13.358	Q.= 49.70 tr500	49.70	149.92	150.94	152.19	156.62	0.189547	10.56	4.71	4.70	3.37
LIMONE	13.35	Q.= 30.60 tr050	30.60	149.59	150.43	151.15	152.91	0.093523	6.98	4.39	5.70	2.47
LIMONE	13.35	Q.= 36.10 tr100	36.10	149.59	150.51	151.27	153.36	0.096381	7.49	4.86	6.19	2.53
LIMONE	13.35	Q.= 41.40 tr200	41.40	149.59	150.58	151.37	153.75	0.098119	7.90	5.33	6.64	2.57
LIMONE	13.35	Q.= 49.70 tr500	49.70	149.59	150.69	151.51	154.30	0.100350	8.48	6.06	9.38	2.62
LIMONE	13.349	Q.= 30.60 tr050	30.60	148.66	149.39	150.20	152.82	0.153621	8.20	3.73	5.19	3.09
LIMONE	13.349	Q.= 36.10 tr100	36.10	148.66	149.48	150.37	153.26	0.150712	8.62	4.19	5.21	3.07
LIMONE	13.349	Q.= 41.40 tr200	41.40	148.66	149.56	150.58	153.65	0.147649	8.96	4.62	5.22	3.04
LIMONE	13.349	Q.= 49.70 tr500	49.70	148.66	149.69	151.02	154.20	0.143232	9.42	5.28	5.25	3.00
LIMONE	13.34	Q.= 30.60 tr050	30.60	147.98	148.70	149.50	151.87	0.140854	7.88	3.88	5.46	2.98
LIMONE	13.34	Q.= 36.10 tr100	36.10	147.98	148.79	149.79	152.33	0.140831	8.34	4.33	5.48	3.00
LIMONE	13.34	Q.= 41.40 tr200	41.40	147.98	148.86	149.97	152.74	0.140178	8.72	4.75	5.50	3.00
LIMONE	13.34	Q.= 49.70 tr500	49.70	147.98	148.98	150.15	153.32	0.138520	9.23	5.39	5.54	2.99
LIMONE	13.339	Q.= 30.60 tr050	30.60	146.94	147.58	148.43	151.77	0.216393	9.07	3.37	5.36	3.65
LIMONE	13.339	Q.= 36.10 tr100	36.10	146.94	147.66	148.61	152.23	0.207198	9.47	3.81	5.38	3.59
LIMONE	13.339	Q.= 41.40 tr200	41.40	146.94	147.73	148.77	152.63	0.199842	9.81	4.22	5.39	3.54
LIMONE	13.339	Q.= 49.70 tr500	49.70	146.94	147.85	149.00	153.21	0.190347	10.26	4.84	5.41	3.46
LIMONE	13.33	Q.= 30.60 tr050	30.60	147.05	147.85	148.59	150.14	0.089789	6.70	4.56	5.86	2.43
LIMONE	13.33	Q.= 36.10 tr100	36.10	147.05	147.92	148.72	150.58	0.094929	7.22	5.00	5.89	2.50
LIMONE	13.33	Q.= 41.40 tr200	41.40	147.05	147.99	148.83	150.98	0.098490	7.66	5.41	5.92	2.56
LIMONE	13.33	Q.= 49.70 tr500	49.70	147.05	148.10	148.97	151.56	0.101790	8.25	6.03	6.32	2.62
LIMONE	13.329	Q.= 30.60 tr050	30.60	146.25	146.94	147.69	150.05	0.143355	7.81	3.92	5.72	3.01

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	13.329	Q.= 36.10 tr100	36.10	146.25	147.02	147.85	150.50	0.142470	8.26	4.37	5.74	3.02
LIMONE	13.329	Q.= 41.40 tr200	41.40	146.25	147.10	148.00	150.89	0.141568	8.63	4.79	5.75	3.02
LIMONE	13.329	Q.= 49.70 tr500	49.70	146.25	147.21	148.38	151.48	0.140525	9.16	5.43	5.77	3.02
LIMONE	13.32	Q.= 30.60 tr050	30.60	146.22	147.06	147.69	148.92	0.068619	6.05	5.05	6.20	2.14
LIMONE	13.32	Q.= 36.10 tr100	36.10	146.22	147.13	147.82	149.32	0.073929	6.56	5.50	6.23	2.23
LIMONE	13.32	Q.= 41.40 tr200	41.40	146.22	147.19	147.92	149.69	0.077927	7.00	5.91	6.38	2.30
LIMONE	13.32	Q.= 49.70 tr500	49.70	146.22	147.29	148.16	150.25	0.082555	7.62	6.56	7.14	2.39
LIMONE	13.319	Q.= 30.60 tr050	30.60	144.72	145.35	146.11	148.77	0.173497	8.19	3.74	5.98	3.31
LIMONE	13.319	Q.= 36.10 tr100	36.10	144.72	145.43	146.27	149.17	0.166437	8.57	4.21	5.99	3.26
LIMONE	13.319	Q.= 41.40 tr200	41.40	144.72	145.50	146.42	149.54	0.161670	8.90	4.65	6.01	3.23
LIMONE	13.319	Q.= 49.70 tr500	49.70	144.72	145.61	146.64	150.09	0.156892	9.38	5.30	6.02	3.19
LIMONE	13.31	Q.= 30.60 tr050	30.60	144.54	145.33	145.86	147.22	0.073958	6.11	5.01	6.50	2.22
LIMONE	13.31	Q.= 36.10 tr100	36.10	144.54	145.40	146.14	147.60	0.077961	6.58	5.49	6.52	2.29
LIMONE	13.31	Q.= 41.40 tr200	41.40	144.54	145.46	146.30	147.95	0.081288	6.99	5.92	6.54	2.34
LIMONE	13.31	Q.= 49.70 tr500	49.70	144.54	145.56	146.52	148.48	0.085826	7.57	6.57	6.57	2.42
LIMONE	13.309	Q.= 30.60 tr050	30.60	142.82	143.39	144.15	147.05	0.203860	8.47	3.61	6.34	3.58
LIMONE	13.309	Q.= 36.10 tr100	36.10	142.82	143.47	144.31	147.43	0.191861	8.81	4.10	6.35	3.50
LIMONE	13.309	Q.= 41.40 tr200	41.40	142.82	143.54	144.45	147.78	0.183629	9.12	4.54	6.36	3.45
LIMONE	13.309	Q.= 49.70 tr500	49.70	142.82	143.64	144.66	148.31	0.174922	9.57	5.19	6.38	3.38
LIMONE	13.3	Q.= 30.60 tr050	30.60	141.53	142.23	142.75	144.09	0.060667	6.05	5.06	7.30	2.32
LIMONE	13.3	Q.= 36.10 tr100	36.10	141.53	142.29	142.89	144.45	0.063389	6.51	5.55	7.32	2.38
LIMONE	13.3	Q.= 41.40 tr200	41.40	141.53	142.36	143.02	144.79	0.065636	6.91	5.99	7.32	2.44
LIMONE	13.3	Q.= 49.70 tr500	49.70	141.53	142.45	143.21	145.29	0.068631	7.47	6.65	7.34	2.50
LIMONE	12.409	Q.= 30.60 tr050	30.60	141.20	141.91	142.44	143.79	0.060279	6.08	5.04	7.13	2.31
LIMONE	12.409	Q.= 36.10 tr100	36.10	141.20	141.98	142.58	144.14	0.062339	6.51	5.54	7.14	2.36
LIMONE	12.409	Q.= 41.40 tr200	41.40	141.20	142.05	142.71	144.46	0.063673	6.88	6.02	7.15	2.40
LIMONE	12.409	Q.= 49.70 tr500	49.70	141.20	142.14	142.91	144.94	0.065804	7.41	6.70	7.17	2.45
LIMONE	12.408	Q.= 30.60 tr050	30.60	140.30	140.88	141.54	143.70	0.113226	7.43	4.12	7.09	3.11
LIMONE	12.408	Q.= 36.10 tr100	36.10	140.30	140.96	141.68	144.05	0.108849	7.79	4.63	7.10	3.08
LIMONE	12.408	Q.= 41.40 tr200	41.40	140.30	141.02	141.81	144.37	0.105470	8.10	5.11	7.11	3.05
LIMONE	12.408	Q.= 49.70 tr500	49.70	140.30	141.12	142.01	144.85	0.102174	8.56	5.81	7.12	3.02
LIMONE	12.4	Q.= 30.60 tr050	30.60	140.30	140.91	141.54	143.50	0.099056	7.13	4.29	7.07	2.92

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	12.4	Q.= 36.10 tr100	36.10	140.30	140.98	141.69	143.86	0.096767	7.51	4.80	7.08	2.91
LIMONE	12.4	Q.= 41.40 tr200	41.40	140.30	141.05	141.82	144.18	0.094865	7.84	5.28	7.08	2.90
LIMONE	12.4	Q.= 49.70 tr500	49.70	140.30	141.15	142.01	144.67	0.093145	8.31	5.98	7.09	2.89
LIMONE	11.55	Q.= 30.60 tr050	30.60	140.25	140.87	141.49	143.39	0.094985	7.04	4.35	7.07	2.86
LIMONE	11.55	Q.= 36.10 tr100	36.10	140.25	140.94	141.63	143.75	0.093405	7.43	4.86	7.08	2.86
LIMONE	11.55	Q.= 41.40 tr200	41.40	140.25	141.01	141.77	144.08	0.092001	7.76	5.33	7.08	2.86
LIMONE	11.55	Q.= 49.70 tr500	49.70	140.25	141.11	141.96	144.57	0.090774	8.24	6.03	7.09	2.85
LIMONE	11.54		Bridge									
LIMONE	11.53	Q.= 30.60 tr050	30.60	139.93	140.59	141.17	142.78	0.075640	6.54	4.68	7.07	2.57
LIMONE	11.53	Q.= 36.10 tr100	36.10	139.93	140.67	141.32	143.14	0.076468	6.97	5.18	7.07	2.60
LIMONE	11.53	Q.= 41.40 tr200	41.40	139.93	140.73	141.45	143.47	0.077107	7.33	5.65	7.08	2.62
LIMONE	11.53	Q.= 49.70 tr500	49.70	139.93	140.83	141.64	143.96	0.077886	7.84	6.34	7.09	2.65
LIMONE	11.51	Q.= 30.60 tr050	30.60	139.80	140.50	141.06	142.59	0.068960	6.41	4.78	6.92	2.46
LIMONE	11.51	Q.= 36.10 tr100	36.10	139.80	140.57	141.21	142.95	0.070078	6.83	5.29	6.94	2.50
LIMONE	11.51	Q.= 41.40 tr200	41.40	139.80	140.64	141.34	143.27	0.070996	7.20	5.75	6.95	2.52
LIMONE	11.51	Q.= 49.70 tr500	49.70	139.80	140.74	141.64	143.76	0.072119	7.70	6.45	6.97	2.56
LIMONE	11.509	Q.= 30.60 tr050	30.60	137.30	137.78	138.57	142.24	0.225307	9.35	3.27	6.82	4.31
LIMONE	11.509	Q.= 36.10 tr100	36.10	137.30	137.85	138.72	142.60	0.205552	9.65	3.74	6.82	4.16
LIMONE	11.509	Q.= 41.40 tr200	41.40	137.30	137.91	138.85	142.93	0.191738	9.92	4.17	6.83	4.05
LIMONE	11.509	Q.= 49.70 tr500	49.70	137.30	138.01	139.05	143.41	0.175823	10.30	4.82	6.84	3.91
LIMONE	11.508	Q.= 30.60 tr050	30.60	136.50	136.96	137.77	141.94	0.268006	9.89	3.09	6.79	4.67
LIMONE	11.508	Q.= 36.10 tr100	36.10	136.50	137.02	137.92	142.32	0.243458	10.19	3.54	6.79	4.51
LIMONE	11.508	Q.= 41.40 tr200	41.40	136.50	137.08	138.06	142.66	0.225937	10.46	3.96	6.80	4.38
LIMONE	11.508	Q.= 49.70 tr500	49.70	136.50	137.18	138.26	143.17	0.205614	10.84	4.58	6.80	4.22
LIMONE	11.5	Q.= 30.60 tr050	30.60	126.73	127.43	128.32	130.79	0.116741	8.13	3.76	5.50	3.14
LIMONE	11.5	Q.= 36.10 tr100	36.10	126.73	127.49	128.49	131.37	0.121867	8.73	4.14	5.52	3.22
LIMONE	11.5	Q.= 41.40 tr200	41.40	126.73	127.56	128.62	131.91	0.125895	9.24	4.48	5.54	3.28
LIMONE	11.5	Q.= 49.70 tr500	49.70	126.73	127.65	128.81	132.69	0.130840	9.95	4.99	5.57	3.35
LIMONE	10.61	Q.= 30.60 tr050	30.60	125.67	126.78	127.22	128.15	0.028273	5.26	6.33	10.62	1.62
LIMONE	10.61	Q.= 36.10 tr100	36.10	125.67	126.84	127.30	128.46	0.031670	5.77	6.97	10.83	1.73
LIMONE	10.61	Q.= 41.40 tr200	41.40	125.67	126.89	127.43	128.75	0.034856	6.22	7.51	10.99	1.82
LIMONE	10.61	Q.= 49.70 tr500	49.70	125.67	126.96	127.66	129.20	0.039647	6.89	8.27	11.21	1.96

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	10.609	Q.= 30.60 tr050	30.60	121.67	122.28	123.26	127.74	0.228877	10.36	2.95	4.90	4.26
LIMONE	10.609	Q.= 36.10 tr100	36.10	121.67	122.37	123.44	128.06	0.204159	10.56	3.42	4.91	4.04
LIMONE	10.609	Q.= 41.40 tr200	41.40	121.67	122.46	123.61	128.35	0.187295	10.75	3.85	4.91	3.88
LIMONE	10.609	Q.= 49.70 tr500	49.70	121.67	122.59	123.85	128.80	0.169188	11.04	4.50	4.92	3.69
LIMONE	10.6	Q.= 30.60 tr050	30.60	118.22	119.04	119.88	122.46	0.106595	8.19	3.73	4.64	2.92
LIMONE	10.6	Q.= 36.10 tr100	36.10	118.22	119.12	120.07	123.00	0.109078	8.72	4.14	4.66	2.95
LIMONE	10.6	Q.= 41.40 tr200	41.40	118.22	119.21	120.24	123.47	0.110679	9.15	4.52	4.67	2.97
LIMONE	10.6	Q.= 49.70 tr500	49.70	118.22	119.33	120.49	124.16	0.112064	9.74	5.11	4.69	2.98
LIMONE	9.71	Q.= 30.60 tr050	30.60	114.33	115.08	115.86	117.77	0.084212	7.26	4.21	5.78	2.72
LIMONE	9.71	Q.= 36.10 tr100	36.10	114.33	115.16	115.97	118.22	0.084879	7.74	4.66	5.87	2.76
LIMONE	9.71	Q.= 41.40 tr200	41.40	114.33	115.23	116.07	118.63	0.085537	8.17	5.11	7.79	2.79
LIMONE	9.71	Q.= 49.70 tr500	49.70	114.33	115.32	116.21	119.24	0.086885	8.80	5.83	7.93	2.86
LIMONE	9.709	Q.= 30.60 tr050	30.60	112.49	113.09	113.96	117.59	0.185544	9.40	3.26	5.50	3.90
LIMONE	9.709	Q.= 36.10 tr100	36.10	112.49	113.17	114.13	118.03	0.174949	9.77	3.69	5.51	3.81
LIMONE	9.709	Q.= 41.40 tr200	41.40	112.49	113.24	114.29	118.45	0.167903	10.11	4.10	5.52	3.75
LIMONE	9.709	Q.= 49.70 tr500	49.70	112.49	113.35	114.52	119.05	0.159753	10.58	4.70	5.53	3.67
LIMONE	9.7	Q.= 30.60 tr050	30.60	110.31	111.00	111.69	113.80	0.096007	7.41	4.13	6.05	2.87
LIMONE	9.7	Q.= 36.10 tr100	36.10	110.31	111.07	111.85	114.28	0.099131	7.94	4.55	6.07	2.93
LIMONE	9.7	Q.= 41.40 tr200	41.40	110.31	111.13	112.00	114.72	0.101529	8.39	4.94	6.08	2.97
LIMONE	9.7	Q.= 49.70 tr500	49.70	110.31	111.23	112.44	115.36	0.104429	9.01	5.52	6.10	3.02
LIMONE	8.8	Q.= 30.60 tr050	30.60	106.99	107.65	108.37	110.66	0.107278	7.69	3.98	6.10	3.04
LIMONE	8.8	Q.= 36.10 tr100	36.10	106.99	107.73	108.58	111.10	0.106908	8.13	4.44	6.12	3.05
LIMONE	8.8	Q.= 41.40 tr200	41.40	106.99	107.80	108.79	111.50	0.106899	8.53	4.85	6.14	3.06
LIMONE	8.8	Q.= 49.70 tr500	49.70	106.99	107.90	109.02	112.10	0.107198	9.09	5.47	6.17	3.08
LIMONE	7.93	Q.= 30.60 tr050	30.60	106.23	107.24	107.79	108.93	0.038387	5.76	5.37	7.11	1.89
LIMONE	7.93	Q.= 36.10 tr100	36.10	106.23	107.31	107.91	109.29	0.040750	6.26	5.96	8.39	1.97
LIMONE	7.93	Q.= 41.40 tr200	41.40	106.23	107.38	108.01	109.63	0.043120	6.70	6.52	9.24	2.05
LIMONE	7.93	Q.= 49.70 tr500	49.70	106.23	107.46	108.22	110.12	0.046855	7.34	7.34	10.18	2.17
LIMONE	7.929	Q.= 30.60 tr050	30.60	104.68	105.44	106.24	108.76	0.107220	8.07	3.79	5.08	2.99
LIMONE	7.929	Q.= 36.10 tr100	36.10	104.68	105.54	106.43	109.13	0.102016	8.39	4.30	5.11	2.92
LIMONE	7.929	Q.= 41.40 tr200	41.40	104.68	105.63	106.59	109.47	0.098501	8.68	4.77	5.14	2.87
LIMONE	7.929	Q.= 49.70 tr500	49.70	104.68	105.77	106.83	109.97	0.094735	9.08	5.47	5.18	2.82

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	7.92	Q.= 30.60 tr050	30.60	104.50	105.42	106.04	107.74	0.058253	6.76	4.66	7.95	2.34
LIMONE	7.92	Q.= 36.10 tr100	36.10	104.50	105.50	106.14	108.12	0.059751	7.24	5.30	9.22	2.40
LIMONE	7.92	Q.= 41.40 tr200	41.40	104.50	105.56	106.30	108.47	0.061815	7.68	5.88	9.88	2.47
LIMONE	7.92	Q.= 49.70 tr500	49.70	104.50	105.64	106.45	108.98	0.065301	8.31	6.68	10.25	2.57
LIMONE	7.919	Q.= 30.60 tr050	30.60	102.50	103.24	104.17	107.54	0.147181	9.18	3.33	4.62	3.45
LIMONE	7.919	Q.= 36.10 tr100	36.10	102.50	103.34	104.36	107.92	0.137618	9.48	3.81	4.65	3.34
LIMONE	7.919	Q.= 41.40 tr200	41.40	102.50	103.44	104.53	108.27	0.130711	9.74	4.25	4.68	3.26
LIMONE	7.919	Q.= 49.70 tr500	49.70	102.50	103.58	104.79	108.79	0.123218	10.11	4.92	4.73	3.16
LIMONE	7.91	Q.= 30.60 tr050	30.60	100.82	101.81	102.59	104.96	0.084920	7.87	3.89	4.48	2.69
LIMONE	7.91	Q.= 36.10 tr100	36.10	100.82	101.91	102.74	105.42	0.086006	8.30	4.35	4.59	2.72
LIMONE	7.91	Q.= 41.40 tr200	41.40	100.82	102.00	102.77	105.85	0.085765	8.71	4.88	8.52	2.74
LIMONE	7.91	Q.= 49.70 tr500	49.70	100.82	102.09	103.04	106.43	0.087529	9.34	5.77	9.48	2.81
LIMONE	7.909	Q.= 30.60 tr050	30.60	99.06	99.94	101.00	104.79	0.152618	9.76	3.14	3.76	3.41
LIMONE	7.909	Q.= 36.10 tr100	36.10	99.06	100.06	101.21	105.25	0.145677	10.10	3.58	3.81	3.33
LIMONE	7.909	Q.= 41.40 tr200	41.40	99.06	100.16	101.42	105.68	0.141458	10.41	3.98	3.85	3.27
LIMONE	7.909	Q.= 49.70 tr500	49.70	99.06	100.32	101.70	106.27	0.135518	10.80	4.60	3.92	3.18
LIMONE	7.9	Q.= 30.60 tr050	30.60	99.30	100.50	101.27	103.19	0.064971	7.27	4.21	4.13	2.30
LIMONE	7.9	Q.= 36.10 tr100	36.10	99.30	100.61	101.40	103.65	0.067511	7.72	4.68	4.25	2.35
LIMONE	7.9	Q.= 41.40 tr200	41.40	99.30	100.70	101.49	104.07	0.069777	8.16	5.25	9.01	2.40
LIMONE	7.9	Q.= 49.70 tr500	49.70	99.30	100.79	101.72	104.67	0.073818	8.84	6.13	9.37	2.50
LIMONE	6.119	Q.= 30.60 tr050	30.60	97.91	98.99	100.01	103.05	0.112667	8.93	3.43	3.45	2.86
LIMONE	6.119	Q.= 36.10 tr100	36.10	97.91	99.12	100.24	103.51	0.110067	9.28	3.89	3.52	2.82
LIMONE	6.119	Q.= 41.40 tr200	41.40	97.91	99.24	100.45	103.94	0.108997	9.60	4.31	3.58	2.79
LIMONE	6.119	Q.= 49.70 tr500	49.70	97.91	99.42	101.09	104.54	0.107549	10.03	4.96	3.67	2.75
LIMONE	6.115	Q.= 30.60 tr050	30.60	95.87	96.65	97.25	99.51	0.088417	7.53	4.23	9.15	2.78
LIMONE	6.115	Q.= 36.10 tr100	36.10	95.87	96.71	97.36	99.94	0.092384	8.06	4.79	9.27	2.87
LIMONE	6.115	Q.= 41.40 tr200	41.40	95.87	96.76	97.46	100.33	0.096048	8.53	5.28	9.37	2.94
LIMONE	6.115	Q.= 49.70 tr500	49.70	95.87	96.83	97.61	100.88	0.101115	9.18	5.98	9.52	3.04
LIMONE	6.114		Bridge									
LIMONE	6.113	Q.= 30.60 tr050	30.60	95.55	96.95	96.95	97.44	0.008600	3.31	10.78	11.04	0.91
LIMONE	6.113	Q.= 36.10 tr100	36.10	95.55	97.07	97.07	97.60	0.008570	3.49	12.09	11.18	0.92

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	6.113	Q.= 41.40 tr200	41.40	95.55	97.19	97.19	97.76	0.008432	3.65	13.40	11.37	0.92
LIMONE	6.113	Q.= 49.70 tr500	49.70	95.55	97.33	97.33	97.98	0.008561	3.90	15.07	11.40	0.95
LIMONE	6.11	Q.= 30.60 tr050	30.60	95.49	96.84	96.91	97.42	0.010536	3.58	9.60	9.75	1.00
LIMONE	6.11	Q.= 36.10 tr100	36.10	95.49	96.93	97.01	97.60	0.011394	3.87	10.49	9.86	1.05
LIMONE	6.11	Q.= 41.40 tr200	41.40	95.49	96.97	97.12	97.73	0.012727	4.16	11.60	11.08	1.11
LIMONE	6.11	Q.= 49.70 tr500	49.70	95.49	97.12	97.28	97.96	0.012394	4.39	13.25	11.24	1.11
LIMONE	6.109	Q.= 30.60 tr050	30.60	92.22	92.89	93.77	97.06	0.154224	9.04	3.38	5.06	3.53
LIMONE	6.109	Q.= 36.10 tr100	36.10	92.22	93.01	93.95	97.24	0.133431	9.12	3.96	5.07	3.30
LIMONE	6.109	Q.= 41.40 tr200	41.40	92.22	93.12	94.12	97.38	0.117476	9.15	4.53	5.09	3.10
LIMONE	6.109	Q.= 49.70 tr500	49.70	92.22	93.29	94.36	97.61	0.100430	9.21	5.40	5.11	2.86
LIMONE	6.10	Q.= 30.60 tr050	30.60	92.46	93.23	93.96	96.15	0.093008	7.58	4.04	5.34	2.78
LIMONE	6.10	Q.= 36.10 tr100	36.10	92.46	93.34	94.14	96.42	0.084981	7.78	4.64	5.36	2.67
LIMONE	6.10	Q.= 41.40 tr200	41.40	92.46	93.45	94.33	96.63	0.077682	7.90	5.24	5.38	2.55
LIMONE	6.10	Q.= 49.70 tr500	49.70	92.46	93.62	94.56	96.93	0.069229	8.05	6.17	5.41	2.41
LIMONE	5.11	Q.= 30.60 tr050	30.60	87.70	88.75	89.66	91.11	0.058786	6.80	4.50	4.41	2.15
LIMONE	5.11	Q.= 36.10 tr100	36.10	87.70	88.86	89.78	91.53	0.060831	7.24	4.99	4.43	2.18
LIMONE	5.11	Q.= 41.40 tr200	41.40	87.70	88.96	89.87	91.92	0.062578	7.61	5.44	4.46	2.20
LIMONE	5.11	Q.= 49.70 tr500	49.70	87.70	89.12	90.01	92.47	0.064286	8.11	6.13	4.50	2.22
LIMONE	4.14	Q.= 30.60 tr050	30.60	87.29	88.42	89.26	90.49	0.048755	6.38	4.80	4.40	1.95
LIMONE	4.14	Q.= 36.10 tr100	36.10	87.29	88.53	89.36	90.88	0.050539	6.79	5.32	4.42	1.98
LIMONE	4.14	Q.= 41.40 tr200	41.40	87.29	88.64	89.45	91.24	0.052122	7.14	5.80	4.45	2.00
LIMONE	4.14	Q.= 49.70 tr500	49.70	87.29	88.80	89.58	91.76	0.053886	7.62	6.53	4.94	2.02
LIMONE	4.139	Q.= 30.60 tr050	30.60	86.44	87.39	88.20	90.39	0.083783	7.68	3.98	4.28	2.54
LIMONE	4.139	Q.= 36.10 tr100	36.10	86.44	87.51	88.40	90.79	0.081818	8.02	4.50	4.30	2.50
LIMONE	4.139	Q.= 41.40 tr200	41.40	86.44	87.62	88.58	91.15	0.080763	8.32	4.97	4.31	2.47
LIMONE	4.139	Q.= 49.70 tr500	49.70	86.44	87.79	89.30	91.67	0.079353	8.73	5.69	4.34	2.43
LIMONE	4.13	Q.= 30.60 tr050	30.60	85.80	86.99	87.82	88.89	0.043045	6.11	5.01	4.34	1.82
LIMONE	4.13	Q.= 36.10 tr100	36.10	85.80	87.12	87.92	89.27	0.044542	6.50	5.56	4.37	1.84
LIMONE	4.13	Q.= 41.40 tr200	41.40	85.80	87.23	87.99	89.61	0.045848	6.83	6.06	4.40	1.86
LIMONE	4.13	Q.= 49.70 tr500	49.70	85.80	87.40	88.12	90.10	0.047440	7.28	6.83	4.44	1.87
LIMONE	4.129	Q.= 30.60 tr050	30.60	84.80	85.76	86.57	88.78	0.084030	7.70	3.97	4.21	2.53
LIMONE	4.129	Q.= 36.10 tr100	36.10	84.80	85.88	86.77	89.15	0.081152	8.01	4.51	4.23	2.48

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	4.129	Q.= 41.40 tr200	41.40	84.80	86.00	86.96	89.49	0.079369	8.28	5.00	4.25	2.44
LIMONE	4.129	Q.= 49.70 tr500	49.70	84.80	86.18	87.24	89.99	0.077286	8.66	5.74	4.27	2.38
LIMONE	4.12	Q.= 30.60 tr050	30.60	83.38	84.28	85.15	87.76	0.102751	8.26	3.70	4.21	2.81
LIMONE	4.12	Q.= 36.10 tr100	36.10	83.38	84.40	85.36	88.16	0.099035	8.59	4.20	4.23	2.75
LIMONE	4.12	Q.= 41.40 tr200	41.40	83.38	84.50	85.94	88.52	0.096524	8.88	4.66	4.24	2.70
LIMONE	4.12	Q.= 49.70 tr500	49.70	83.38	84.67	86.04	89.04	0.093232	9.26	5.37	4.27	2.64
LIMONE	3.14	Q.= 30.60 tr050	30.60	81.49	82.41	83.58	85.51	0.087647	7.79	3.93	4.36	2.62
LIMONE	3.14	Q.= 36.10 tr100	36.10	81.49	82.52	83.68	85.96	0.087872	8.22	4.39	4.38	2.62
LIMONE	3.14	Q.= 41.40 tr200	41.40	81.49	82.62	83.76	86.37	0.088128	8.58	4.83	4.41	2.62
LIMONE	3.14	Q.= 49.70 tr500	49.70	81.49	82.77	83.88	86.94	0.087912	9.05	5.49	4.44	2.60
LIMONE	3.139	Q.= 30.60 tr050	30.60	80.63	81.45	82.38	85.42	0.126507	8.82	3.47	4.28	3.13
LIMONE	3.139	Q.= 36.10 tr100	36.10	80.63	81.56	82.58	85.87	0.122399	9.20	3.92	4.29	3.07
LIMONE	3.139	Q.= 41.40 tr200	41.40	80.63	81.66	82.76	86.28	0.119501	9.52	4.35	4.31	3.03
LIMONE	3.139	Q.= 49.70 tr500	49.70	80.63	81.81	83.02	86.86	0.115596	9.96	4.99	4.33	2.96
LIMONE	3.13	Q.= 30.60 tr050	30.60	79.82	80.70	81.55	84.11	0.102132	8.19	3.74	4.34	2.82
LIMONE	3.13	Q.= 36.10 tr100	36.10	79.82	80.80	81.75	84.59	0.101984	8.63	4.18	4.36	2.81
LIMONE	3.13	Q.= 41.40 tr200	41.40	79.82	80.89	81.93	85.02	0.101924	9.00	4.60	4.37	2.80
LIMONE	3.13	Q.= 49.70 tr500	49.70	79.82	81.04	82.70	85.63	0.101295	9.49	5.24	4.40	2.78
LIMONE	2.15	Q.= 30.60 tr050	30.60	78.10	78.97	79.87	82.61	0.109667	8.44	3.62	4.22	2.91
LIMONE	2.15	Q.= 36.10 tr100	36.10	78.10	79.08	80.07	83.09	0.108814	8.87	4.07	4.24	2.89
LIMONE	2.15	Q.= 41.40 tr200	41.40	78.10	79.18	80.26	83.53	0.108314	9.24	4.48	4.26	2.87
LIMONE	2.15	Q.= 49.70 tr500	49.70	78.10	79.32	80.98	84.15	0.107264	9.73	5.11	4.28	2.84
LIMONE	2.149	Q.= 30.60 tr050	30.60	77.09	77.87	78.86	82.50	0.157387	9.54	3.21	4.16	3.47
LIMONE	2.149	Q.= 36.10 tr100	36.10	77.09	77.97	79.07	82.99	0.151078	9.92	3.64	4.17	3.39
LIMONE	2.149	Q.= 41.40 tr200	41.40	77.09	78.07	79.25	83.42	0.146676	10.25	4.04	4.19	3.33
LIMONE	2.149	Q.= 49.70 tr500	49.70	77.09	78.21	79.53	84.04	0.141041	10.70	4.65	4.20	3.25
LIMONE	2.14	Q.= 30.60 tr050	30.60	77.18	78.14	78.96	81.25	0.086929	7.82	3.91	4.17	2.58
LIMONE	2.14	Q.= 36.10 tr100	36.10	77.18	78.24	79.17	81.74	0.088674	8.29	4.36	4.18	2.59
LIMONE	2.14	Q.= 41.40 tr200	41.40	77.18	78.34	79.36	82.18	0.090058	8.68	4.77	4.20	2.60
LIMONE	2.14	Q.= 49.70 tr500	49.70	77.18	78.49	80.16	82.81	0.091340	9.21	5.40	4.23	2.60
LIMONE	1.19	Q.= 30.60 tr050	30.60	77.03	78.03	78.74	80.54	0.065319	7.02	4.36	4.47	2.27
LIMONE	1.19	Q.= 36.10 tr100	36.10	77.03	78.13	79.20	81.00	0.068421	7.51	4.81	4.49	2.32

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (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
LIMONE	1.19	Q.= 41.40 tr200	41.40	77.03	78.22	79.48	81.43	0.071010	7.93	5.22	4.51	2.36
LIMONE	1.19	Q.= 49.70 tr500	49.70	77.03	78.36	79.64	82.04	0.073949	8.50	5.85	4.54	2.39
LIMONE	1.189	Q.= 30.60 tr050	30.60	75.77	76.59	77.49	80.41	0.121133	8.66	3.53	4.35	3.07
LIMONE	1.189	Q.= 36.10 tr100	36.10	75.77	76.70	77.69	80.87	0.118211	9.05	3.99	4.36	3.02
LIMONE	1.189	Q.= 41.40 tr200	41.40	75.77	76.79	77.87	81.30	0.116434	9.41	4.40	4.38	2.99
LIMONE	1.189	Q.= 49.70 tr500	49.70	75.77	76.93	78.15	81.91	0.114218	9.88	5.03	4.40	2.95
LIMONE	1.18	Q.= 30.60 tr050	30.60	75.76	76.74	77.38	78.95	0.057080	6.60	4.64	4.85	2.15
LIMONE	1.18	Q.= 36.10 tr100	36.10	75.76	76.83	77.57	79.39	0.060329	7.09	5.09	4.87	2.21
LIMONE	1.18	Q.= 41.40 tr200	41.40	75.76	76.92	77.77	79.79	0.063044	7.51	5.51	4.89	2.26
LIMONE	1.18	Q.= 49.70 tr500	49.70	75.76	77.05	78.42	80.38	0.066366	8.08	6.15	4.92	2.31
LIMONE	1.179	Q.= 30.60 tr050	30.60	74.92	75.75	76.54	78.86	0.094438	7.82	3.92	4.76	2.75
LIMONE	1.179	Q.= 36.10 tr100	36.10	74.92	75.85	76.73	79.30	0.093666	8.23	4.39	4.78	2.74
LIMONE	1.179	Q.= 41.40 tr200	41.40	74.92	75.94	76.90	79.70	0.093444	8.59	4.82	4.79	2.73
LIMONE	1.179	Q.= 49.70 tr500	49.70	74.92	76.08	77.16	80.29	0.093298	9.09	5.47	4.81	2.72
LIMONE	1.17	Q.= 30.60 tr050	30.60	74.91	75.90	76.46	77.79	0.046844	6.09	5.02	5.18	1.97
LIMONE	1.17	Q.= 36.10 tr100	36.10	74.91	75.99	76.64	78.19	0.050106	6.57	5.49	5.20	2.04
LIMONE	1.17	Q.= 41.40 tr200	41.40	74.91	76.07	76.82	78.56	0.052885	6.99	5.92	5.22	2.10
LIMONE	1.17	Q.= 49.70 tr500	49.70	74.91	76.20	77.28	79.11	0.056454	7.57	6.57	5.25	2.16
LIMONE	1.169	Q.= 30.60 tr050	30.60	73.87	74.66	75.43	77.68	0.094177	7.69	3.98	5.08	2.77
LIMONE	1.169	Q.= 36.10 tr100	36.10	73.87	74.76	75.60	78.08	0.092200	8.07	4.47	5.09	2.75
LIMONE	1.169	Q.= 41.40 tr200	41.40	73.87	74.85	75.78	78.45	0.091170	8.41	4.92	5.10	2.73
LIMONE	1.169	Q.= 49.70 tr500	49.70	73.87	74.98	76.02	79.00	0.090283	8.89	5.59	5.12	2.71
LIMONE	1.16	Q.= 30.60 tr050	30.60	73.75	74.69	75.21	76.42	0.043498	5.83	5.25	5.68	1.93
LIMONE	1.16	Q.= 36.10 tr100	36.10	73.75	74.78	75.37	76.79	0.046335	6.29	5.74	5.70	2.00
LIMONE	1.16	Q.= 41.40 tr200	41.40	73.75	74.86	75.57	77.14	0.048782	6.69	6.19	5.72	2.05
LIMONE	1.16	Q.= 49.70 tr500	49.70	73.75	74.97	75.87	77.65	0.052048	7.25	6.86	5.75	2.12
LIMONE	1.159	Q.= 30.60 tr050	30.60	72.83	73.59	74.29	76.32	0.086876	7.33	4.18	5.57	2.70
LIMONE	1.159	Q.= 36.10 tr100	36.10	72.83	73.68	74.46	76.69	0.084786	7.69	4.70	5.58	2.68
LIMONE	1.159	Q.= 41.40 tr200	41.40	72.83	73.77	74.61	77.04	0.083589	8.01	5.17	5.59	2.66
LIMONE	1.159	Q.= 49.70 tr500	49.70	72.83	73.89	74.85	77.55	0.082748	8.48	5.86	5.61	2.65
LIMONE	1.15	Q.= 30.60 tr050	30.60	72.87	73.84	74.26	75.28	0.034575	5.31	5.76	6.06	1.74
LIMONE	1.15	Q.= 36.10 tr100	36.10	72.87	73.92	74.42	75.62	0.037548	5.77	6.26	6.08	1.82

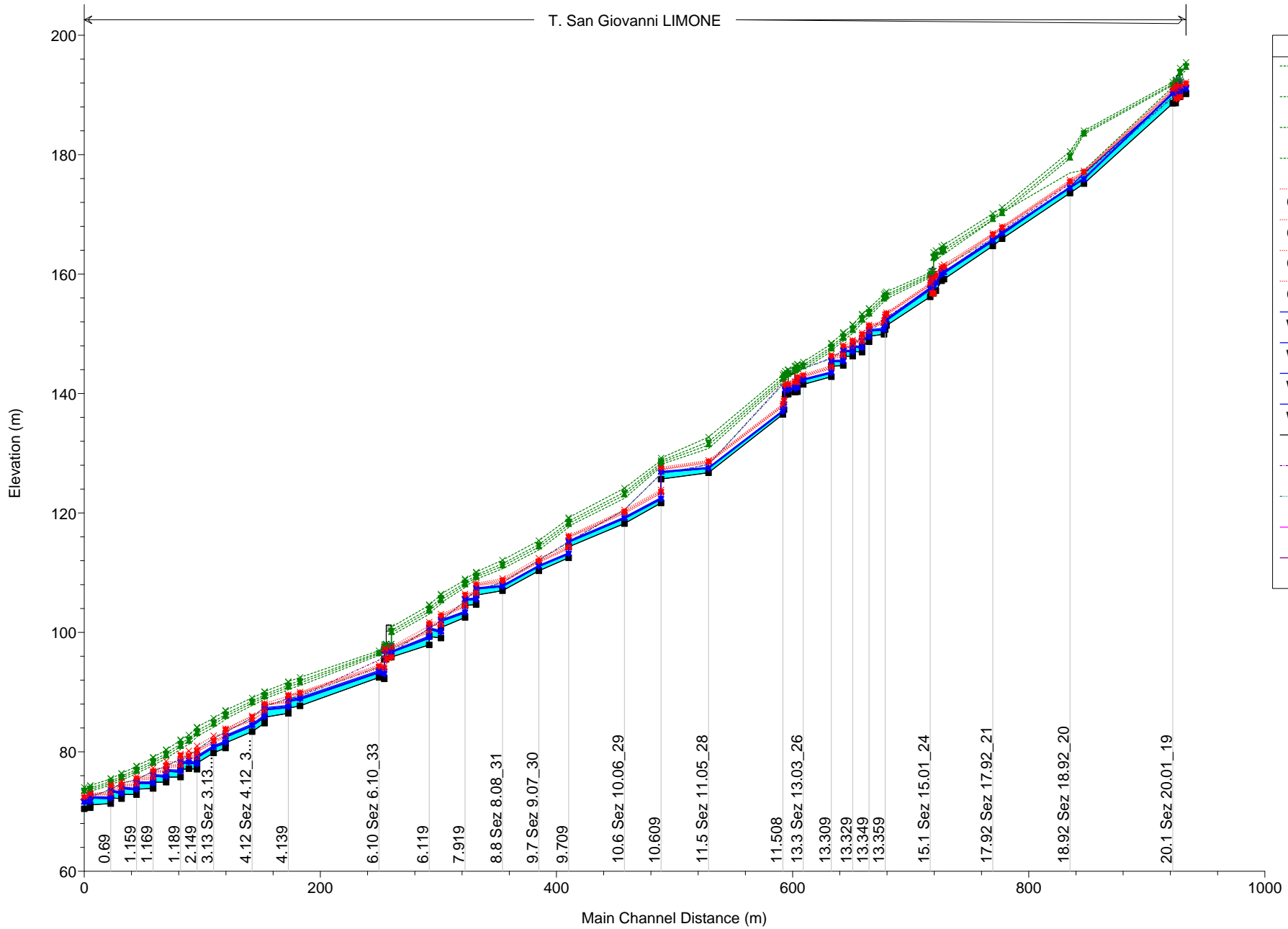
HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE (Continued)

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
LIMONE	1.15	Q.= 41.40 tr200	41.40	72.87	74.00	74.57	75.93	0.039948	6.16	6.72	6.09	1.87
LIMONE	1.15	Q.= 49.70 tr500	49.70	72.87	74.11	75.10	76.41	0.043291	6.72	7.40	6.12	1.95
LIMONE	0.79	Q.= 30.60 tr050	30.60	72.17	72.95	73.56	75.19	0.067812	6.63	4.61	5.97	2.41
LIMONE	0.79	Q.= 36.10 tr100	36.10	72.17	73.04	73.73	75.53	0.066952	6.99	5.16	5.99	2.40
LIMONE	0.79	Q.= 41.40 tr200	41.40	72.17	73.13	73.87	75.85	0.066696	7.31	5.66	6.00	2.40
LIMONE	0.79	Q.= 49.70 tr500	49.70	72.17	73.25	74.09	76.33	0.066815	7.78	6.39	6.02	2.41
LIMONE	0.7	Q.= 30.60 tr050	30.60	72.27	73.36	73.68	74.52	0.024843	4.78	6.41	6.04	1.48
LIMONE	0.7	Q.= 36.10 tr100	36.10	72.27	73.44	73.93	74.83	0.027623	5.22	6.91	6.06	1.56
LIMONE	0.7	Q.= 41.40 tr200	41.40	72.27	73.52	74.38	75.12	0.030048	5.62	7.37	6.08	1.63
LIMONE	0.7	Q.= 49.70 tr500	49.70	72.27	73.63	74.51	75.57	0.033366	6.17	8.06	6.11	1.72
LIMONE	0.69	Q.= 30.60 tr050	30.60	71.33	72.12	72.74	74.41	0.069055	6.71	4.56	5.87	2.43
LIMONE	0.69	Q.= 36.10 tr100	36.10	71.33	72.22	72.90	74.72	0.066590	7.01	5.15	5.89	2.39
LIMONE	0.69	Q.= 41.40 tr200	41.40	71.33	72.31	73.06	75.01	0.065250	7.29	5.68	5.90	2.37
LIMONE	0.69	Q.= 49.70 tr500	49.70	71.33	72.44	73.28	75.46	0.064245	7.70	6.45	5.93	2.36
LIMONE	0.6	Q.= 30.60 tr050	30.60	71.12	72.24	72.80	73.40	0.024402	4.78	6.40	5.89	1.46
LIMONE	0.6	Q.= 36.10 tr100	36.10	71.12	72.34	72.88	73.69	0.025878	5.14	7.02	5.92	1.51
LIMONE	0.6	Q.= 41.40 tr200	41.40	71.12	72.44	72.95	73.96	0.027260	5.47	7.59	8.74	1.55
LIMONE	0.6	Q.= 49.70 tr500	49.70	71.12	72.53	73.04	74.36	0.030282	6.04	8.97	22.18	1.65
LIMONE	0.59	Q.= 30.60 tr050	30.60	70.63	71.54	72.07	73.34	0.046571	5.94	5.16	5.76	2.00
LIMONE	0.59	Q.= 36.10 tr100	36.10	70.63	71.65	72.23	73.63	0.045467	6.22	5.80	5.78	1.98
LIMONE	0.59	Q.= 41.40 tr200	41.40	70.63	71.76	72.39	73.89	0.044948	6.48	6.39	5.80	1.97
LIMONE	0.59	Q.= 49.70 tr500	49.70	70.63	71.90	72.92	74.31	0.044980	6.87	7.23	5.83	1.97
LIMONE	0.5	Q.= 30.60 tr050	30.60	70.46	71.42	71.90	73.08	0.041128	5.71	5.36	5.72	1.88
LIMONE	0.5	Q.= 36.10 tr100	36.10	70.46	71.53	72.35	73.37	0.040622	6.00	6.02	5.74	1.87
LIMONE	0.5	Q.= 41.40 tr200	41.40	70.46	71.63	72.42	73.64	0.040704	6.28	6.60	5.76	1.87
LIMONE	0.5	Q.= 49.70 tr500	49.70	70.46	71.78	72.52	74.05	0.041093	6.67	7.45	5.80	1.88

Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE

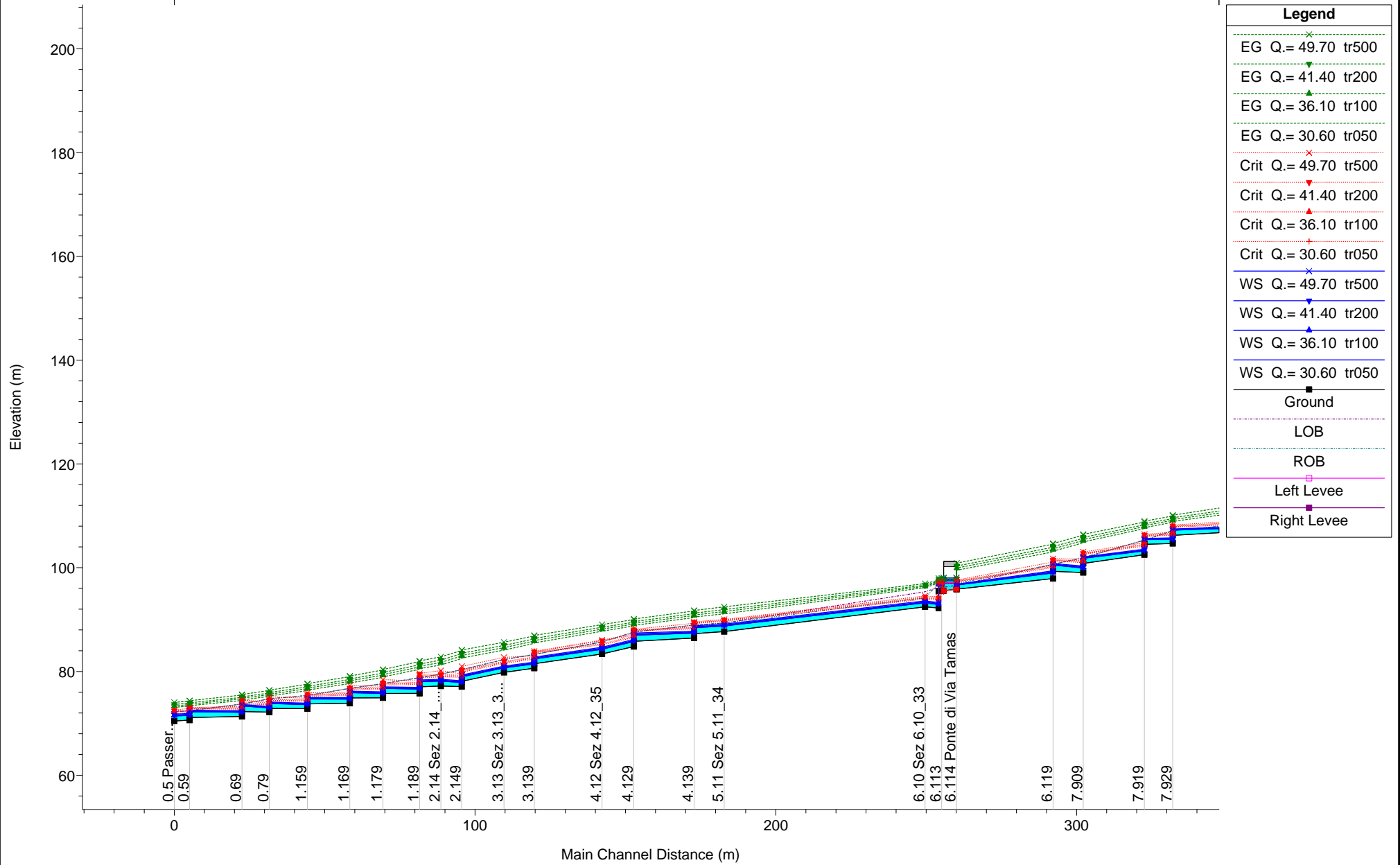


Legend	
EG Q.= 49.70 tr500	Green dashed line with 'x' markers
EG Q.= 41.40 tr200	Green dashed line with downward triangle markers
EG Q.= 36.10 tr100	Green dashed line with upward triangle markers
EG Q.= 30.60 tr050	Green dashed line with square markers
Crit Q.= 49.70 tr500	Red dotted line with 'x' markers
Crit Q.= 41.40 tr200	Red dotted line with downward triangle markers
Crit Q.= 36.10 tr100	Red dotted line with upward triangle markers
Crit Q.= 30.60 tr050	Red dotted line with square markers
WS Q.= 49.70 tr500	Blue solid line with 'x' markers
WS Q.= 41.40 tr200	Blue solid line with downward triangle markers
WS Q.= 36.10 tr100	Blue solid line with upward triangle markers
WS Q.= 30.60 tr050	Blue solid line with square markers
Ground	Black solid line with square markers
LOB	Black dashed line
ROB	Black dotted line
Left Levee	Magenta solid line with square markers
Right Levee	Purple solid line with square markers

Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

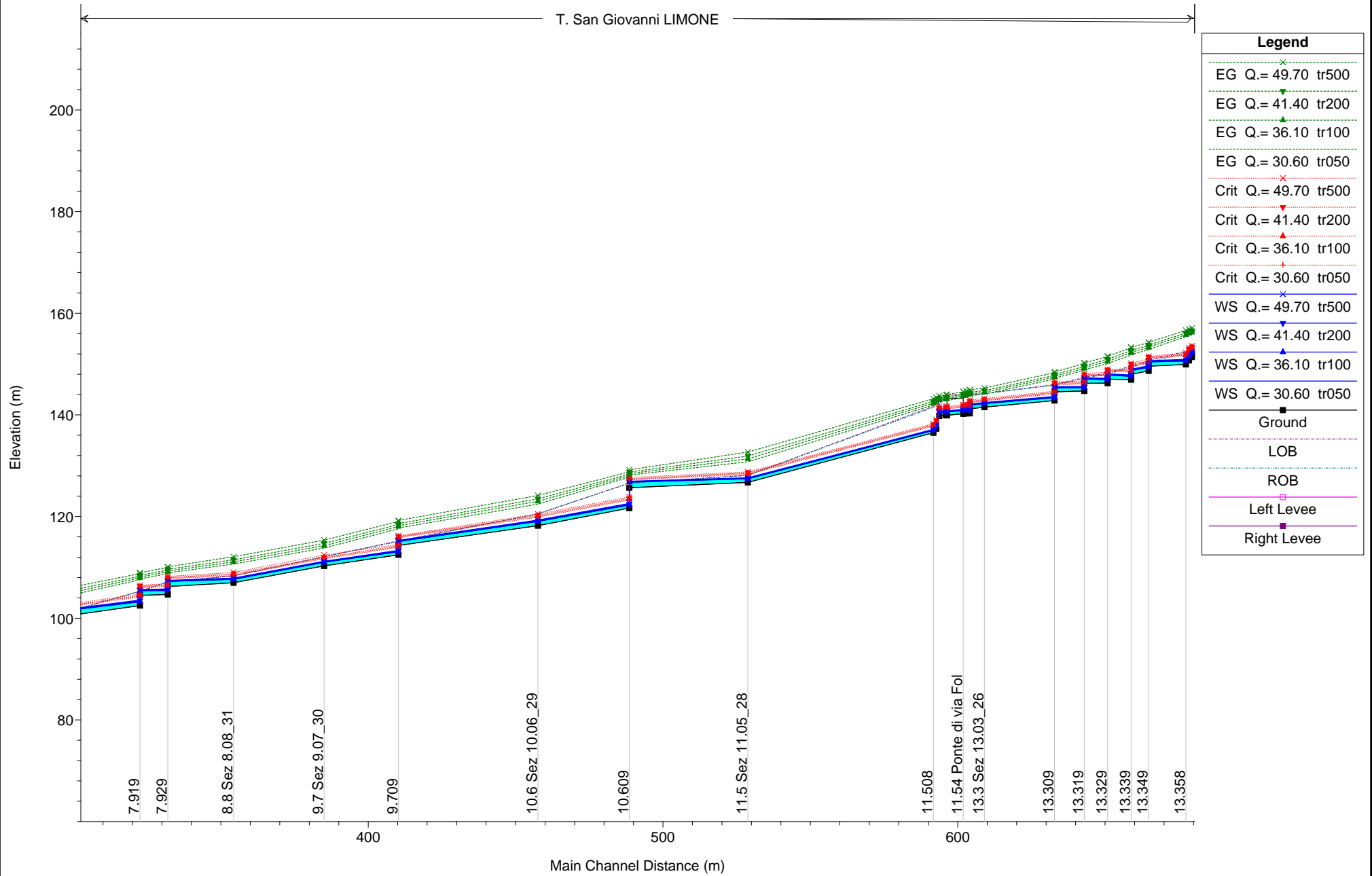
T. San Giovanni LIMONE



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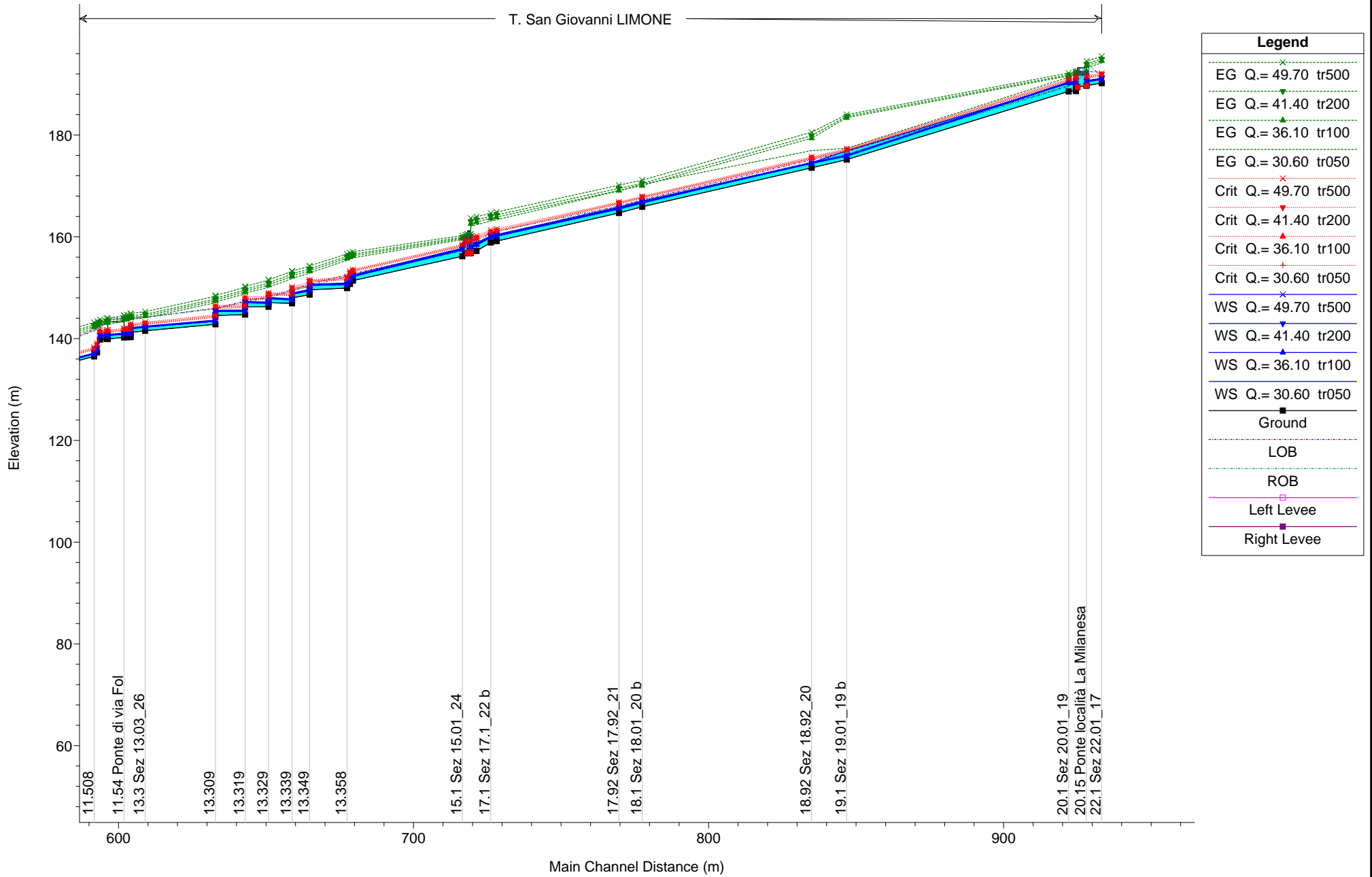
T. San Giovanni LIMONE

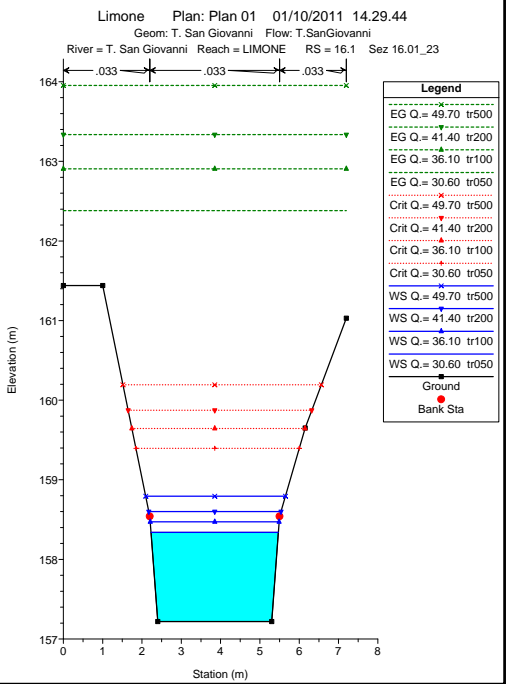
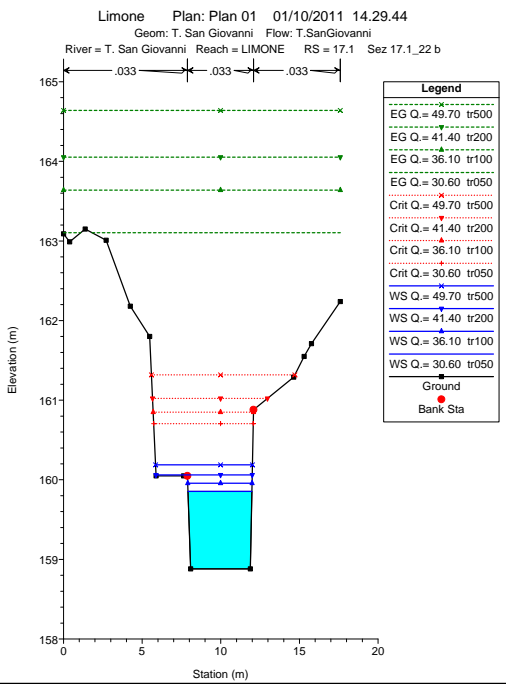
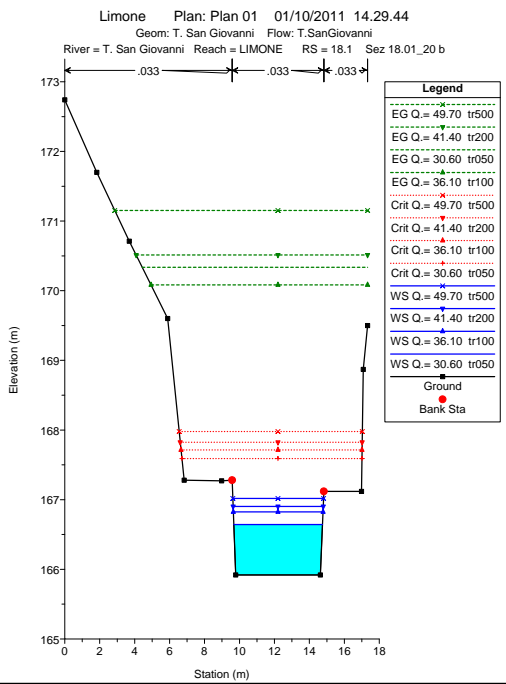
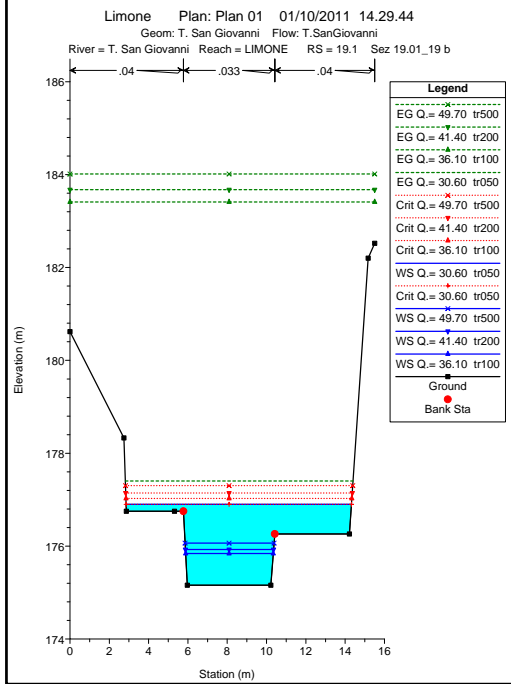
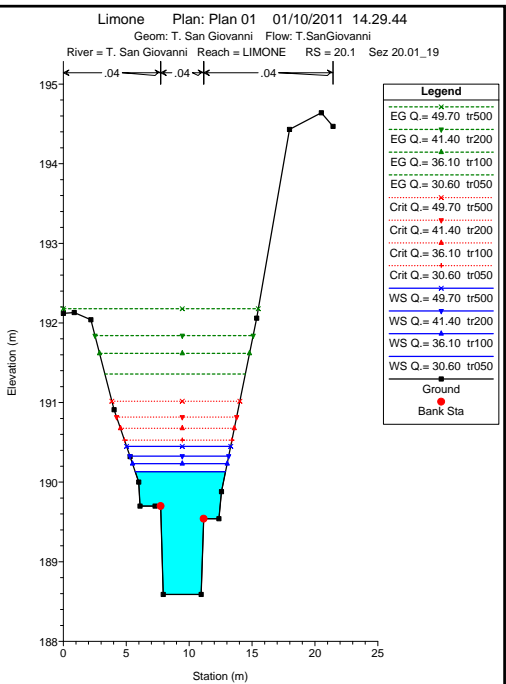
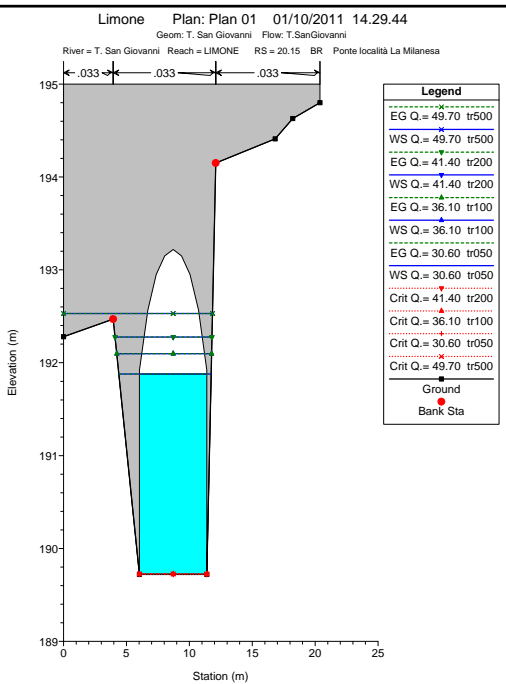
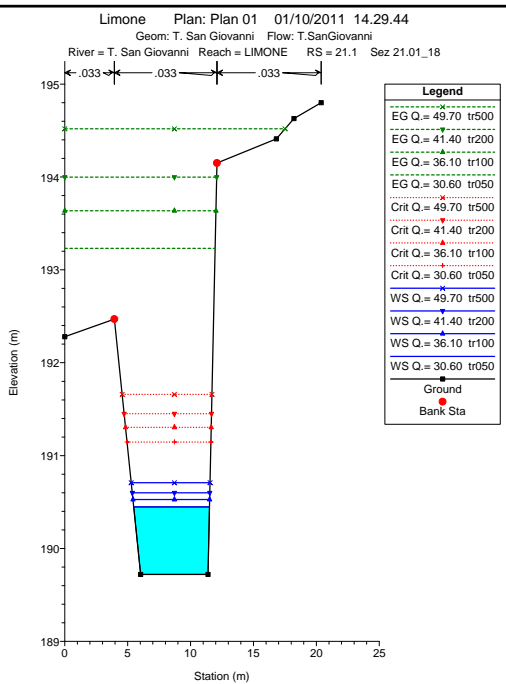
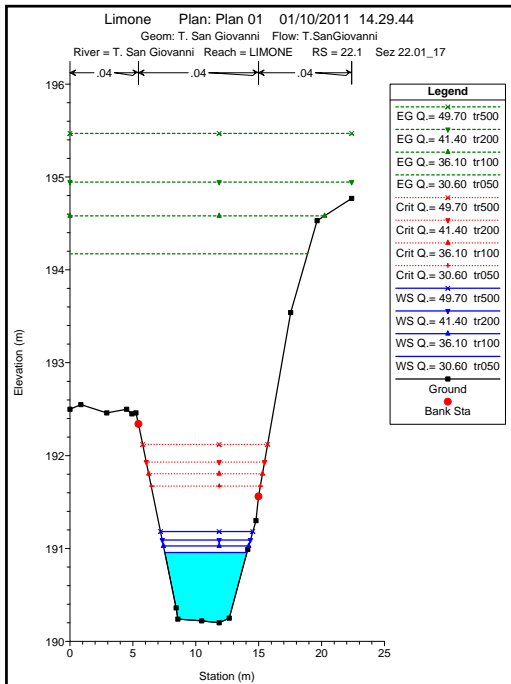


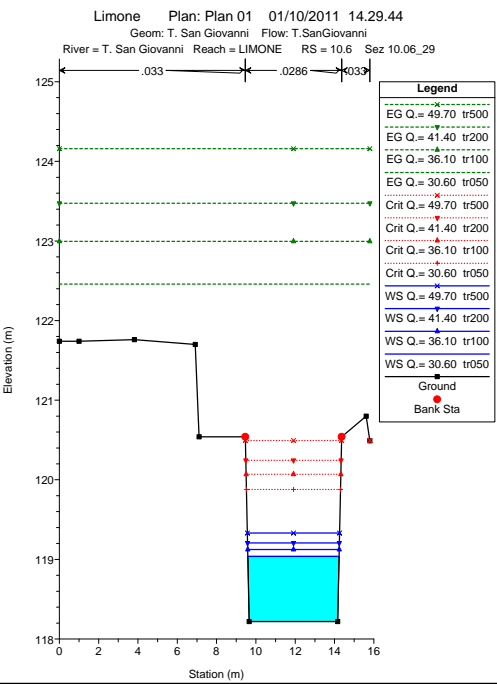
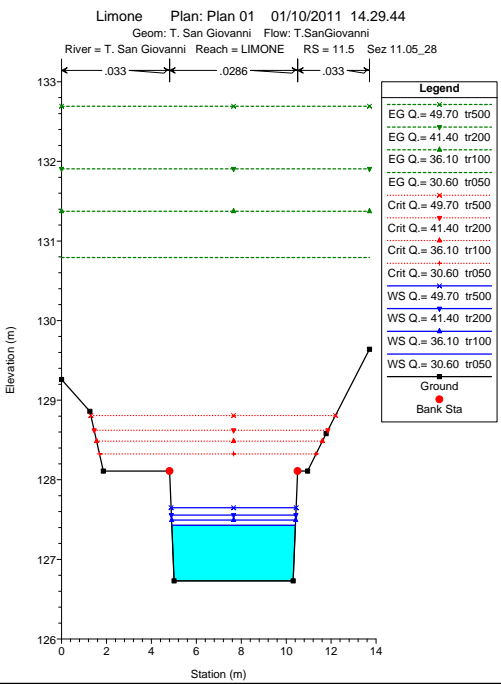
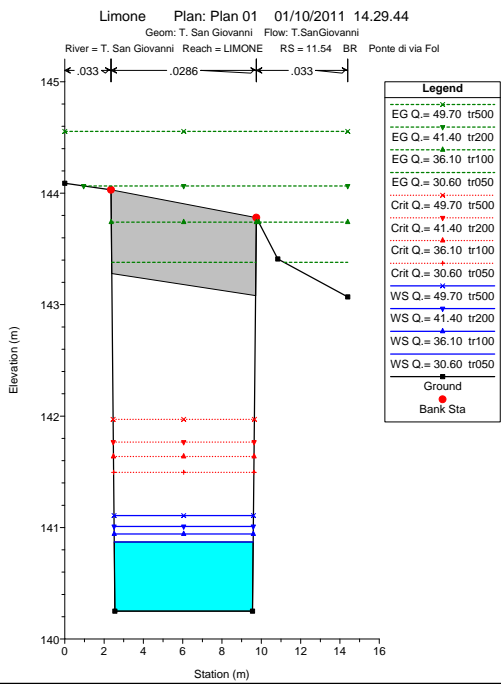
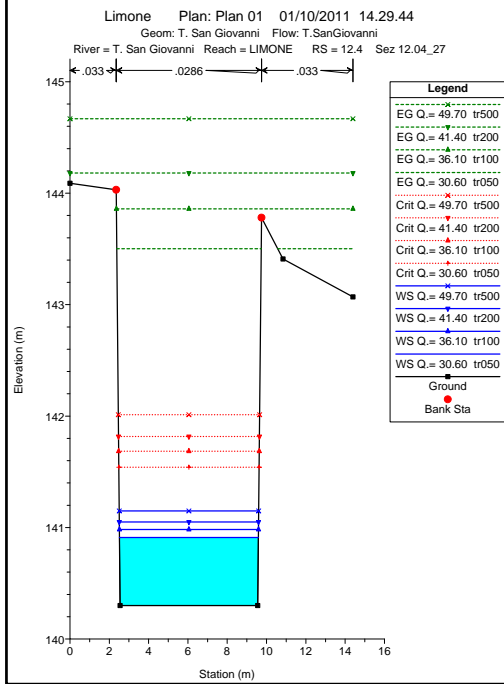
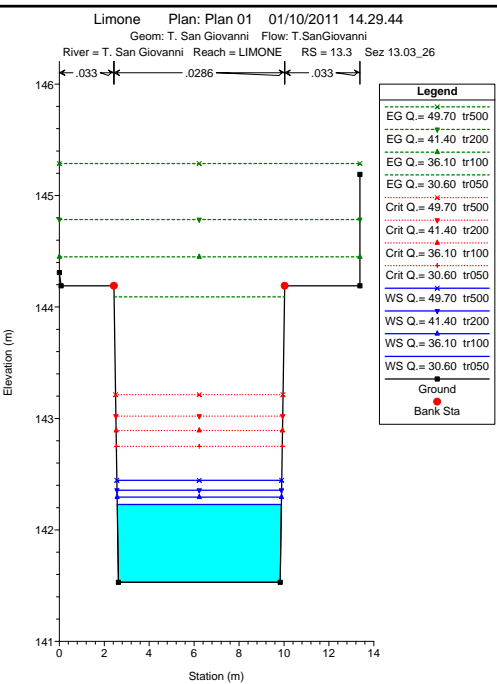
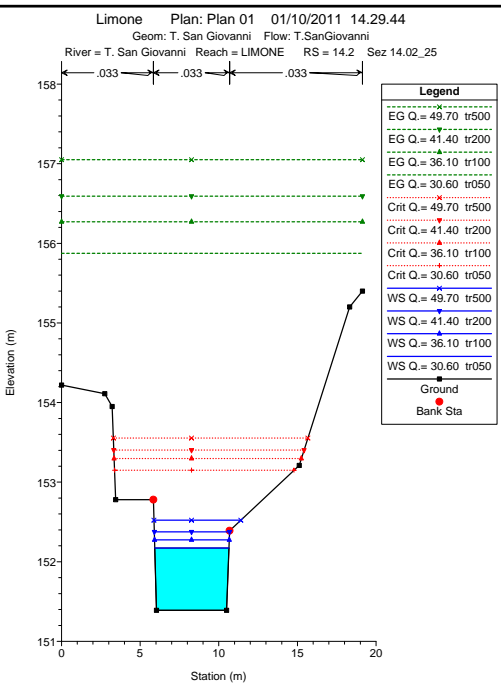
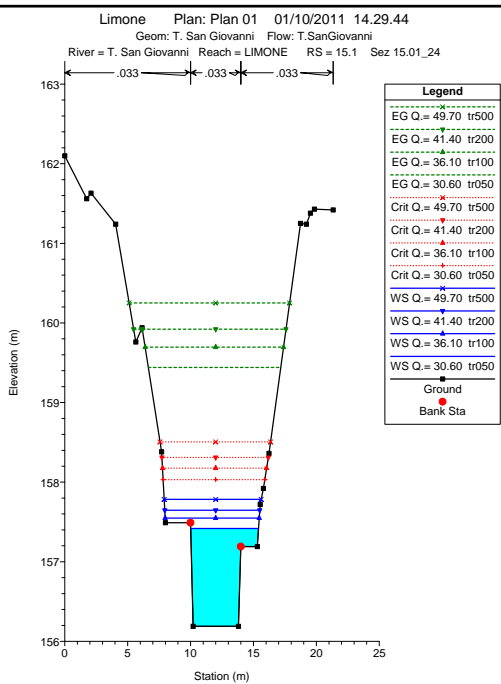
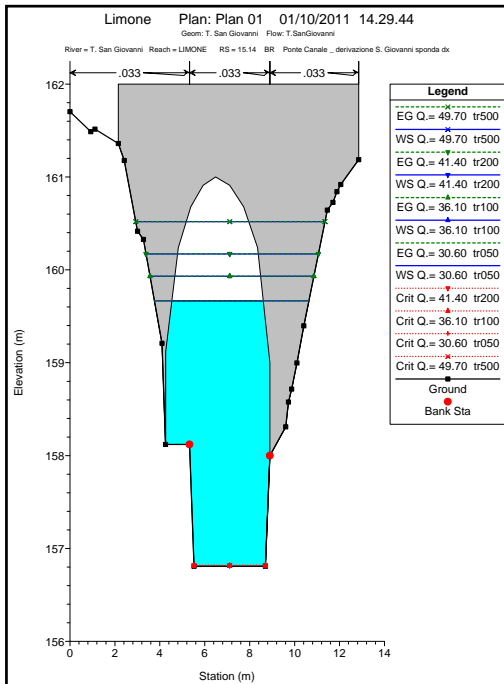
Limone Plan: Plan 01 01/10/2011 14.29.44

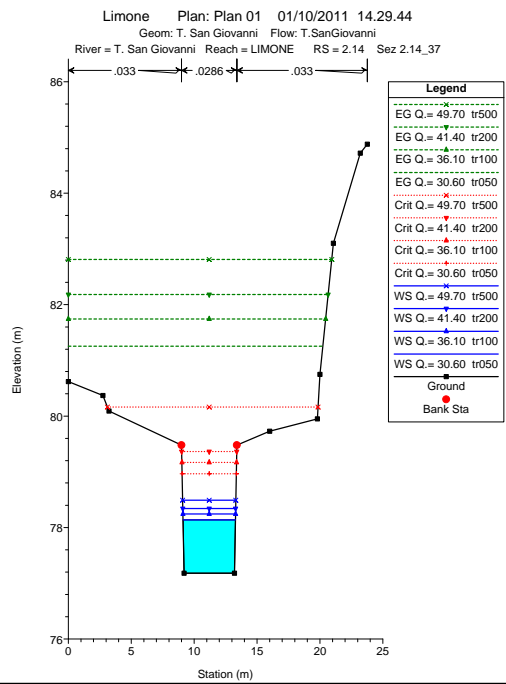
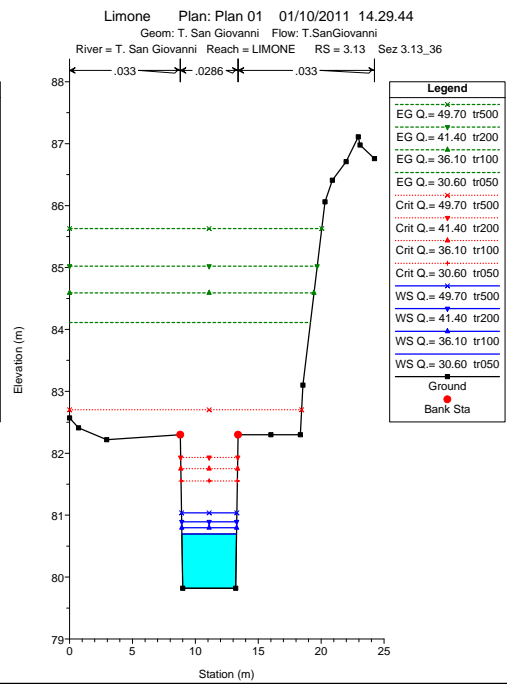
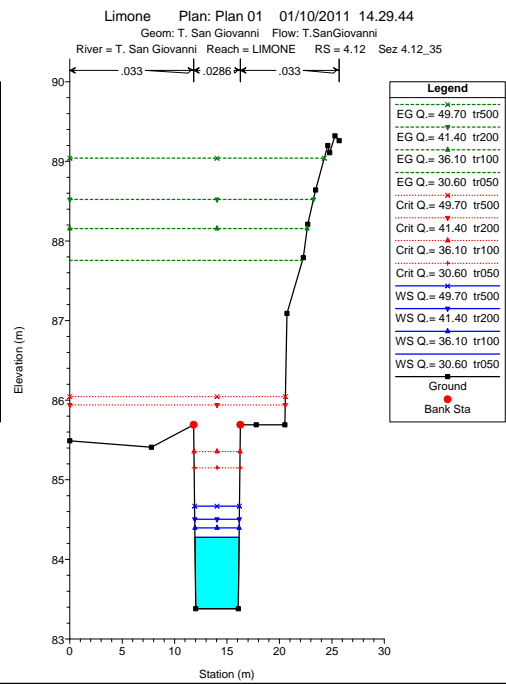
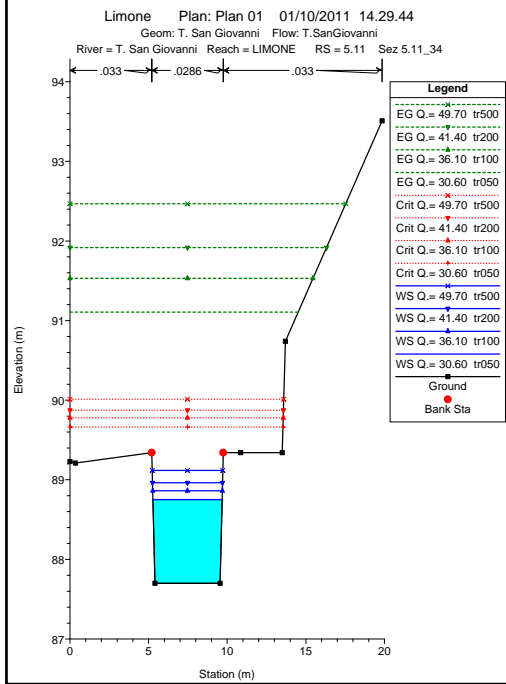
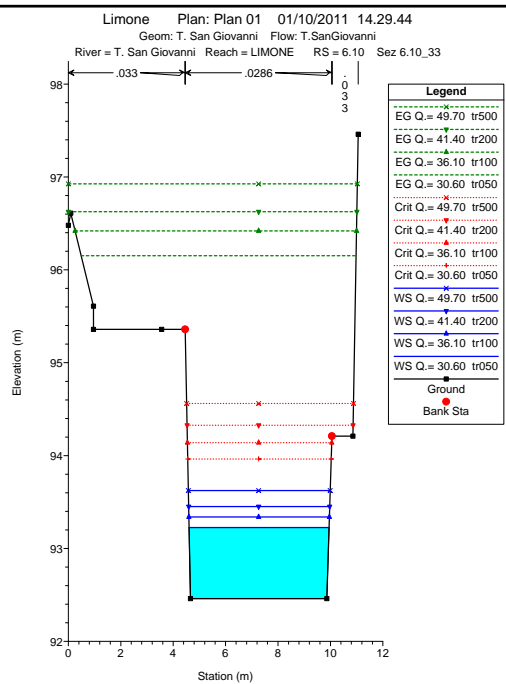
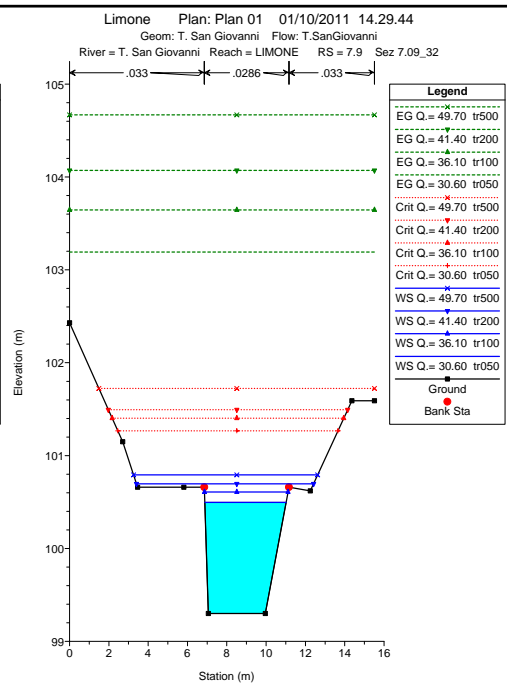
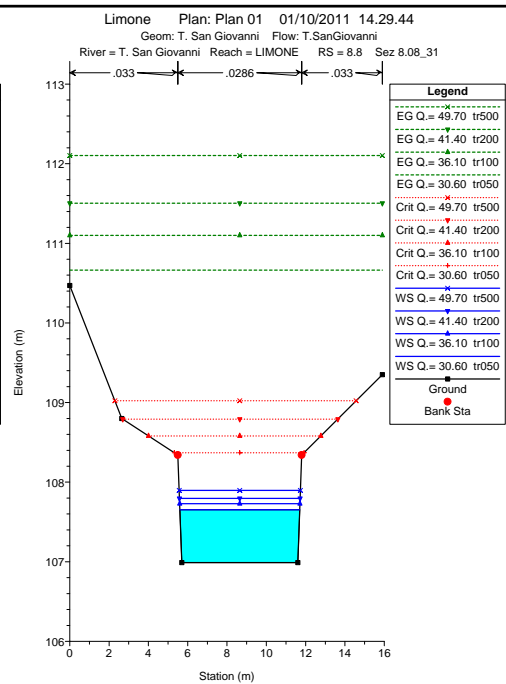
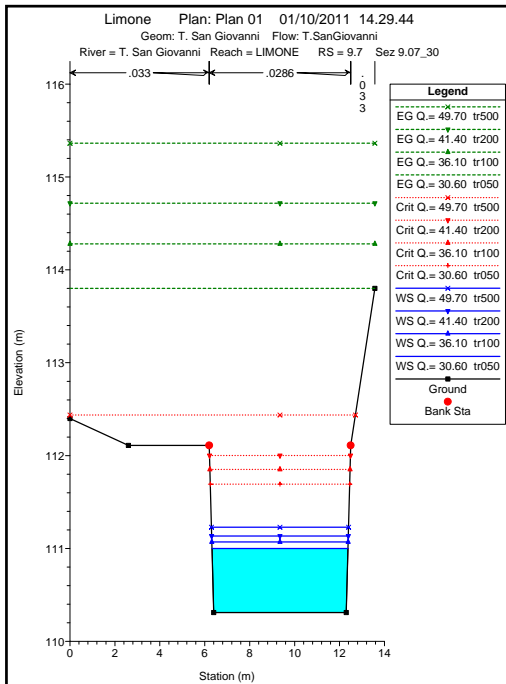
Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE





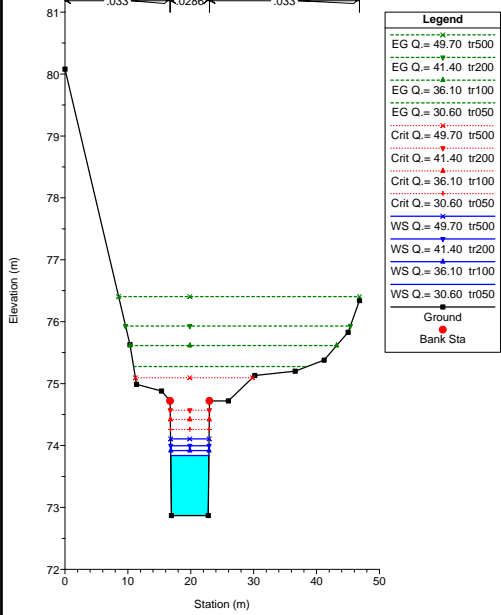




Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

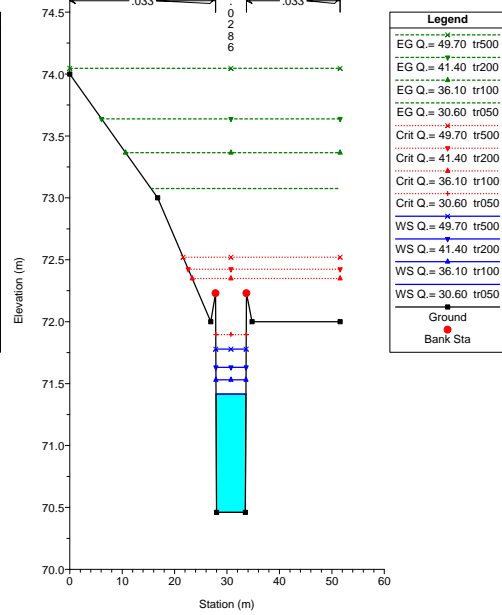
River = T. San Giovanni Reach = LIMONE RS = 1.15 Sez 1.15_38



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

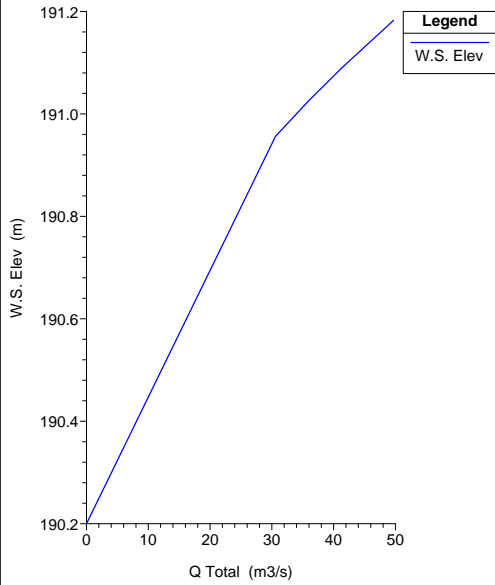
River = T. San Giovanni Reach = LIMONE RS = 0.5 Passerella Foc_ sez 0.5_39



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

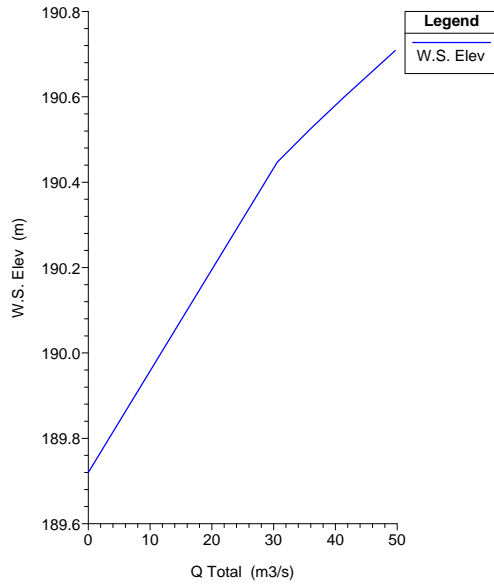
River = T. San Giovanni Reach = LIMONE RS = 22.1 Sez 22.01_17



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

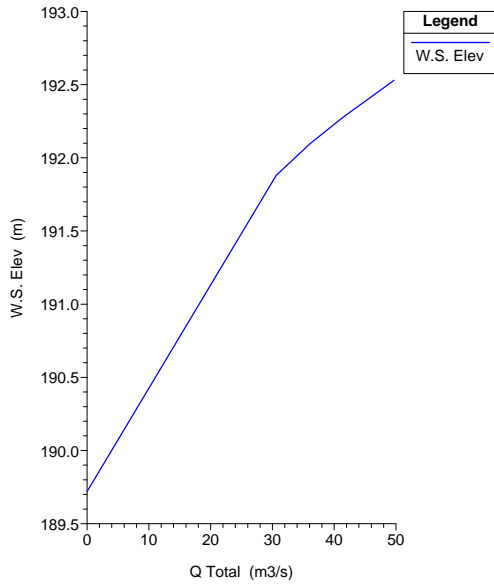
River = T. San Giovanni Reach = LIMONE RS = 21.1 Sez 21.01_18



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

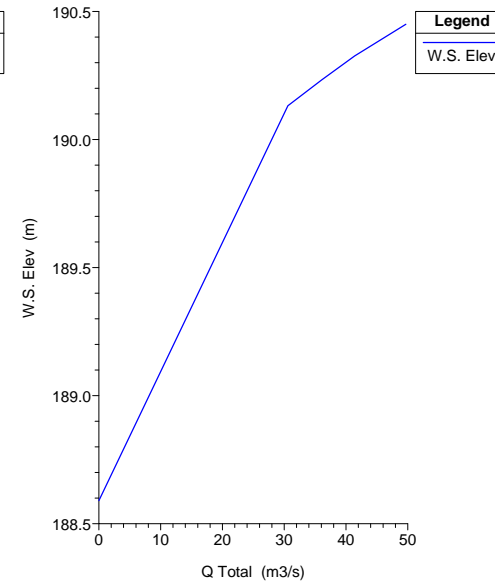
River = T. San Giovanni Reach = LIMONE RS = 20.15 BR Ponte località La Milanese



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

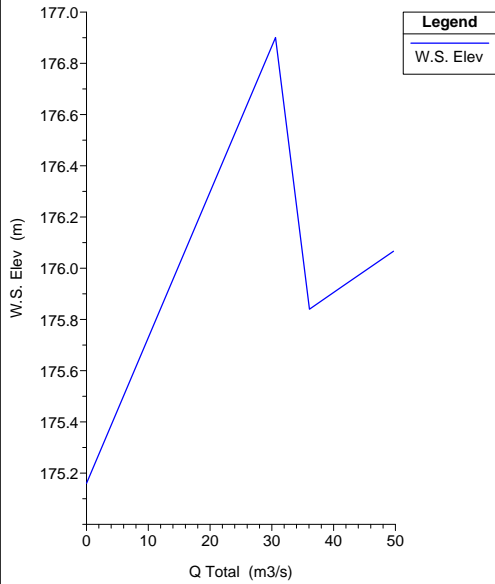
River = T. San Giovanni Reach = LIMONE RS = 20.1 Sez 20.01_19



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

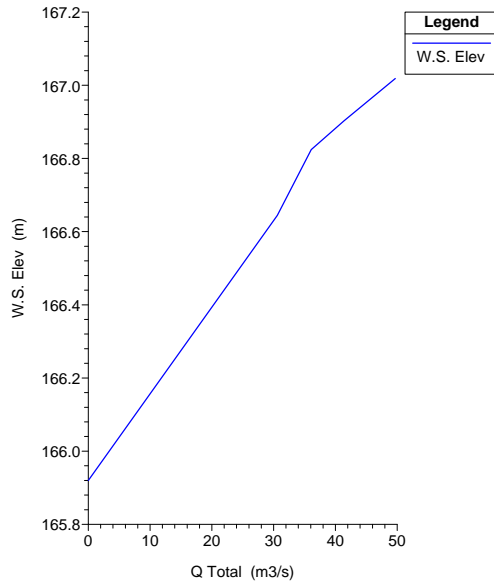
River = T. San Giovanni Reach = LIMONE RS = 19.1 Sez 19.01_19 b



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

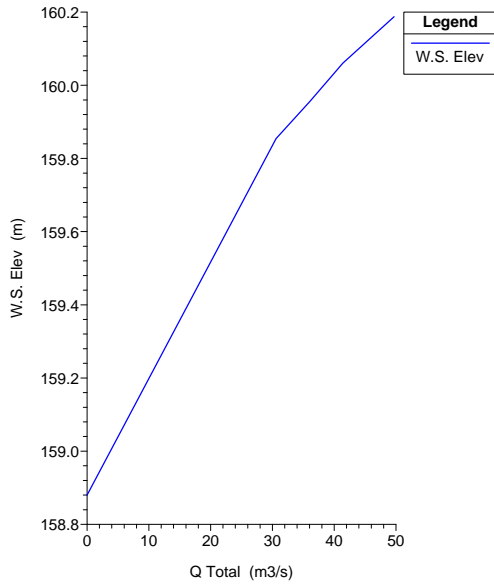
River = T. San Giovanni Reach = LIMONE RS = 18.1 Sez 18.01_20 b



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

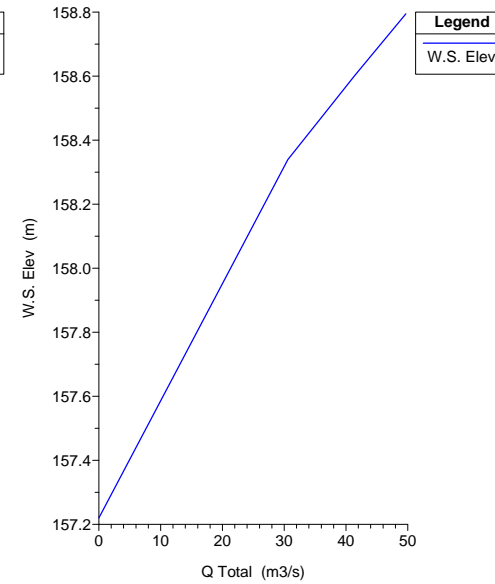
River = T. San Giovanni Reach = LIMONE RS = 17.1 Sez 17.1_22 b



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

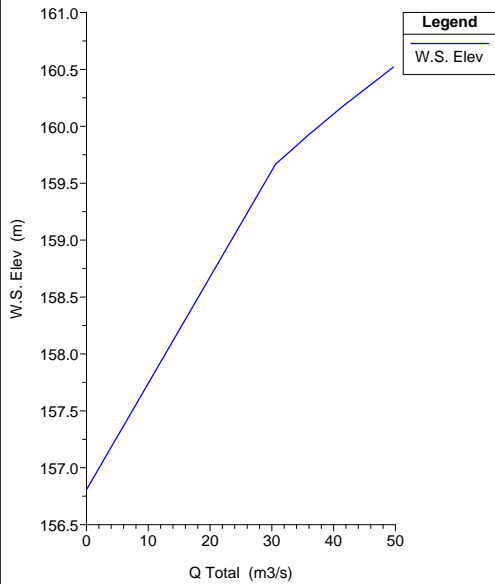
River = T. San Giovanni Reach = LIMONE RS = 16.1 Sez 16.01_23



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

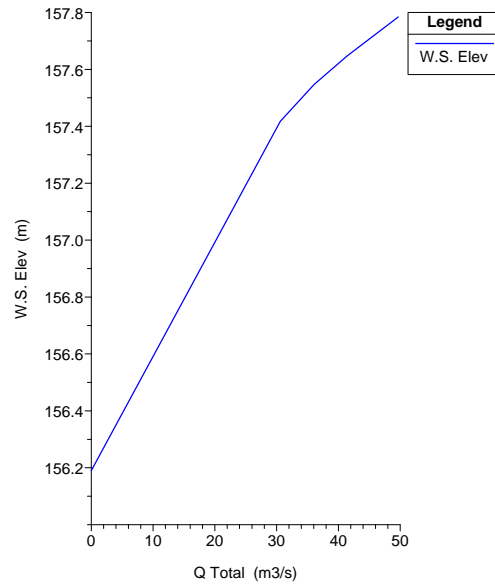
River = T. San Giovanni Reach = LIMONE RS = 15.14 BR Ponte Canale _derivazione S. Giovanni sponda dx



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

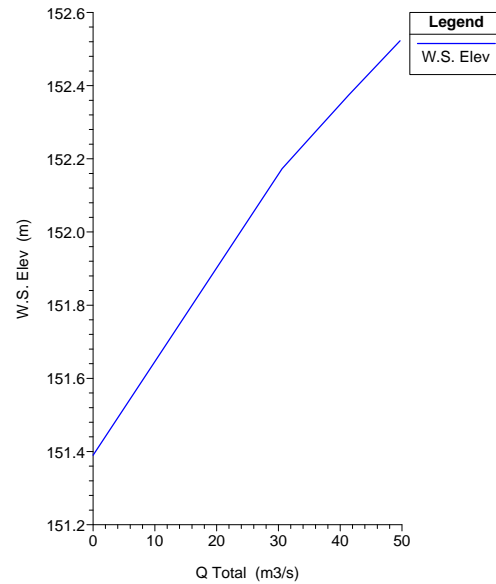
River = T. San Giovanni Reach = LIMONE RS = 15.1 Sez 15.01_24



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

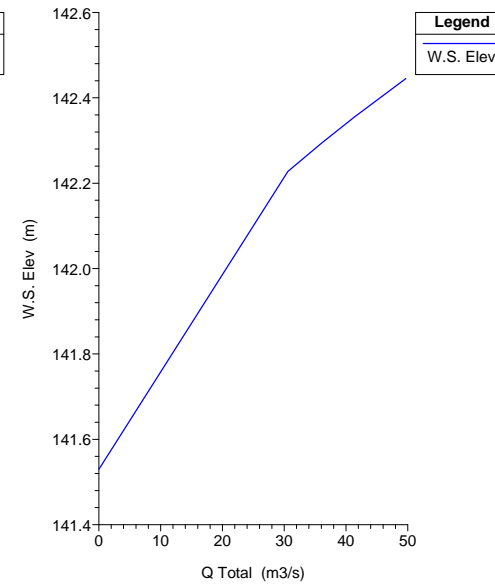
River = T. San Giovanni Reach = LIMONE RS = 14.2 Sez 14.02_25



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

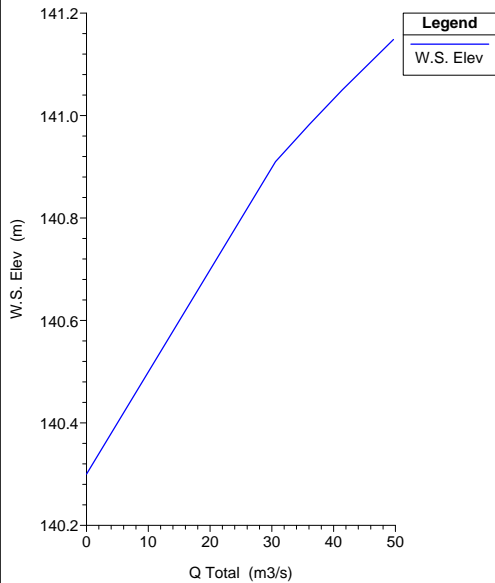
River = T. San Giovanni Reach = LIMONE RS = 13.3 Sez 13.03_26



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

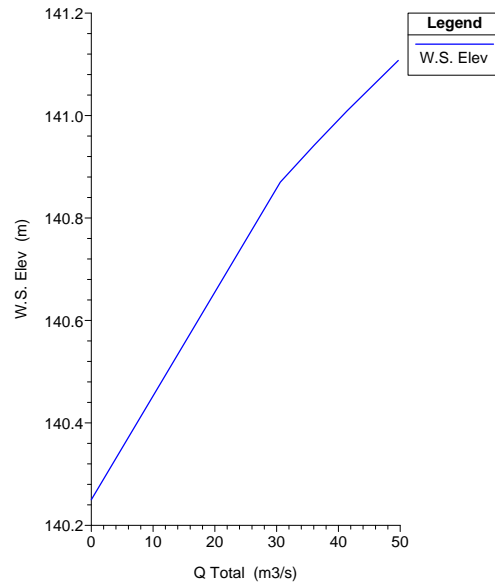
River = T. San Giovanni Reach = LIMONE RS = 12.4 Sez 12.04_27



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

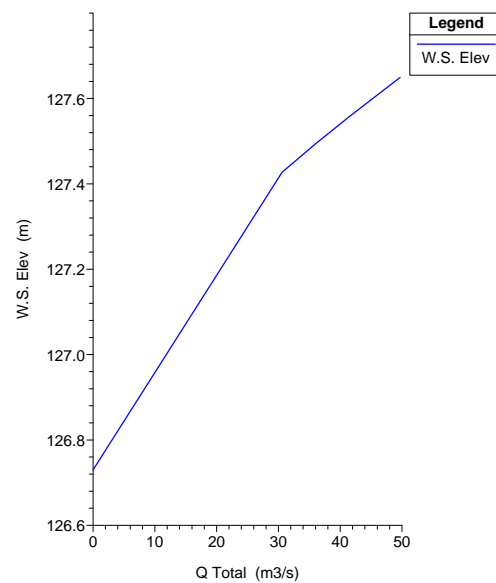
River = T. San Giovanni Reach = LIMONE RS = 11.54 BR Ponte di via Fol



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

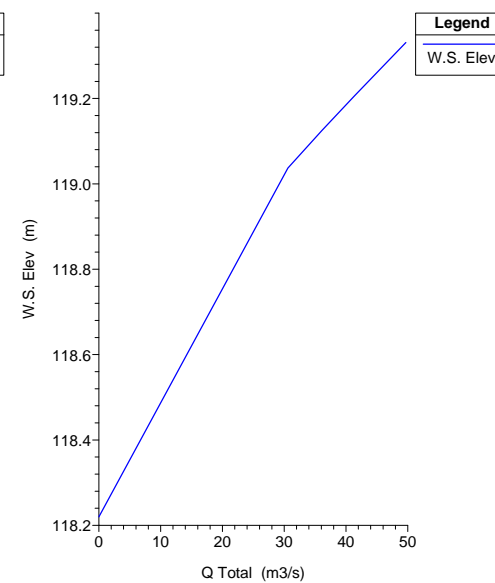
River = T. San Giovanni Reach = LIMONE RS = 11.5 Sez 11.05_28



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

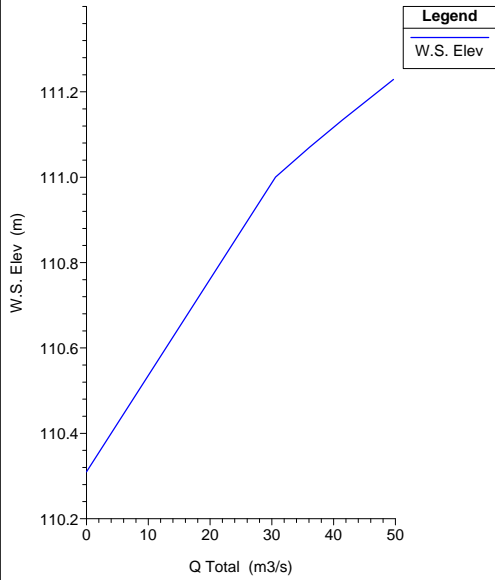
River = T. San Giovanni Reach = LIMONE RS = 10.6 Sez 10.06_29



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

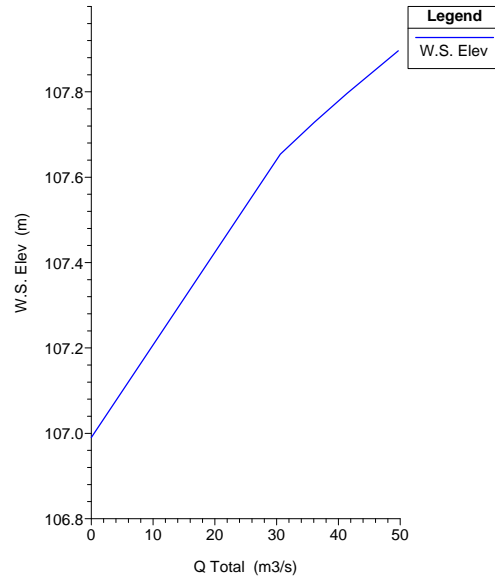
River = T. San Giovanni Reach = LIMONE RS = 9.7 Sez 9.07_30



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

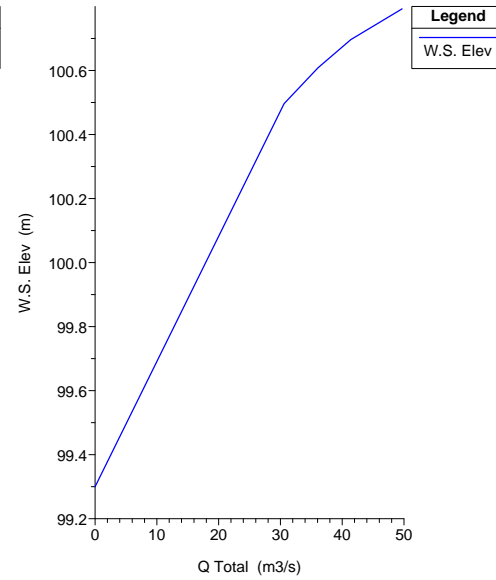
River = T. San Giovanni Reach = LIMONE RS = 8.8 Sez 8.08_31



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

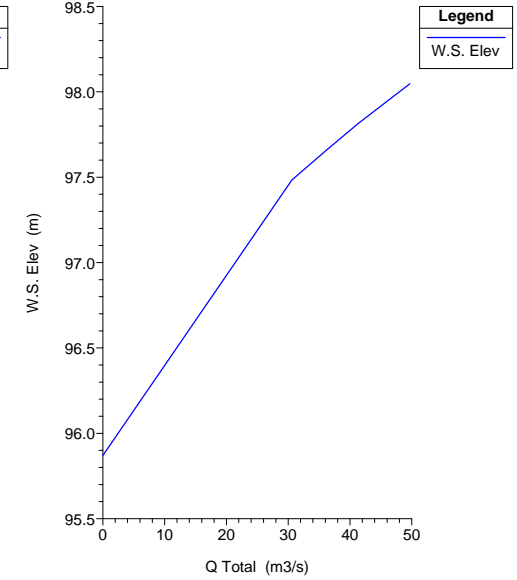
River = T. San Giovanni Reach = LIMONE RS = 7.9 Sez 7.09_32



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

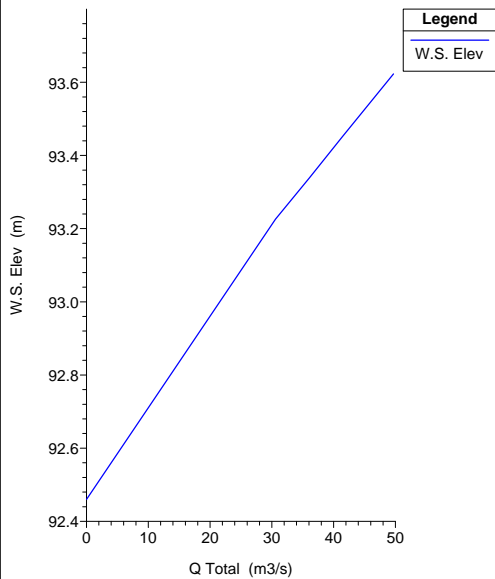
River = T. San Giovanni Reach = LIMONE RS = 6.114 BR Ponte di Via Tamas



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

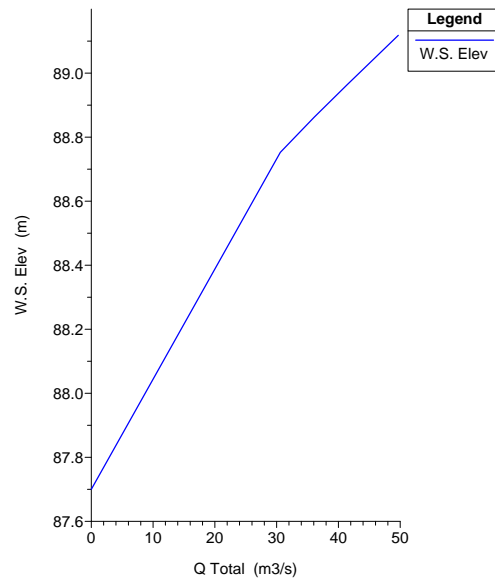
River = T. San Giovanni Reach = LIMONE RS = 6.10 Sez 6.10_33



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

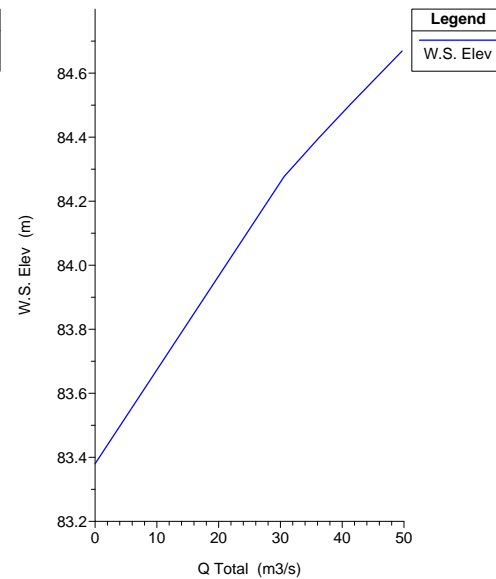
River = T. San Giovanni Reach = LIMONE RS = 5.11 Sez 5.11_34



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

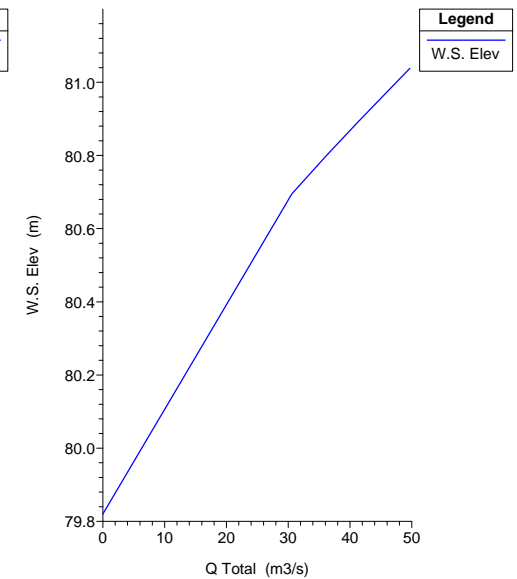
River = T. San Giovanni Reach = LIMONE RS = 4.12 Sez 4.12_35



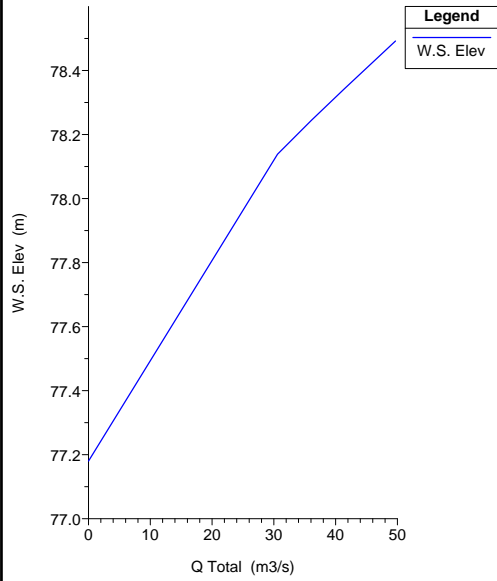
Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

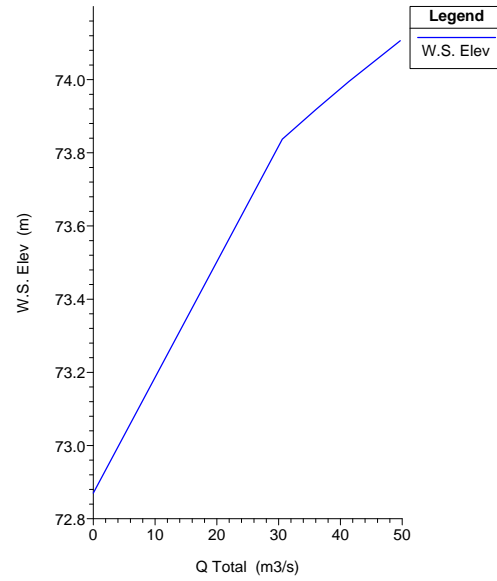
River = T. San Giovanni Reach = LIMONE RS = 3.13 Sez 3.13_36



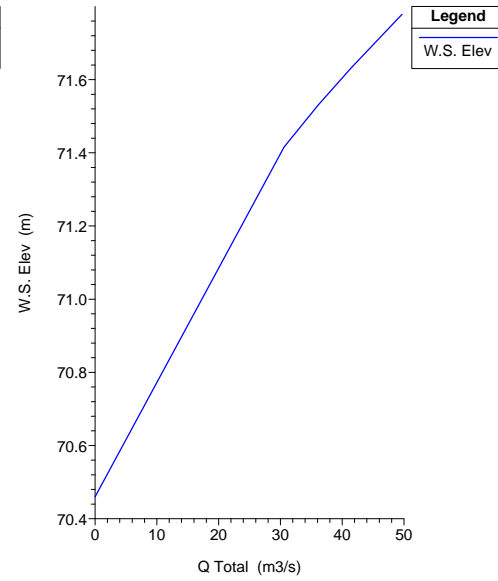
Limone Plan: Plan 01 01/10/2011 14.29.44
Geom: T. San Giovanni Flow: T.SanGiovanni
River = T. San Giovanni Reach = LIMONE RS = 2.14 Sez 2.14_37



Limone Plan: Plan 01 01/10/2011 14.29.44
Geom: T. San Giovanni Flow: T.SanGiovanni
River = T. San Giovanni Reach = LIMONE RS = 1.15 Sez 1.15_38



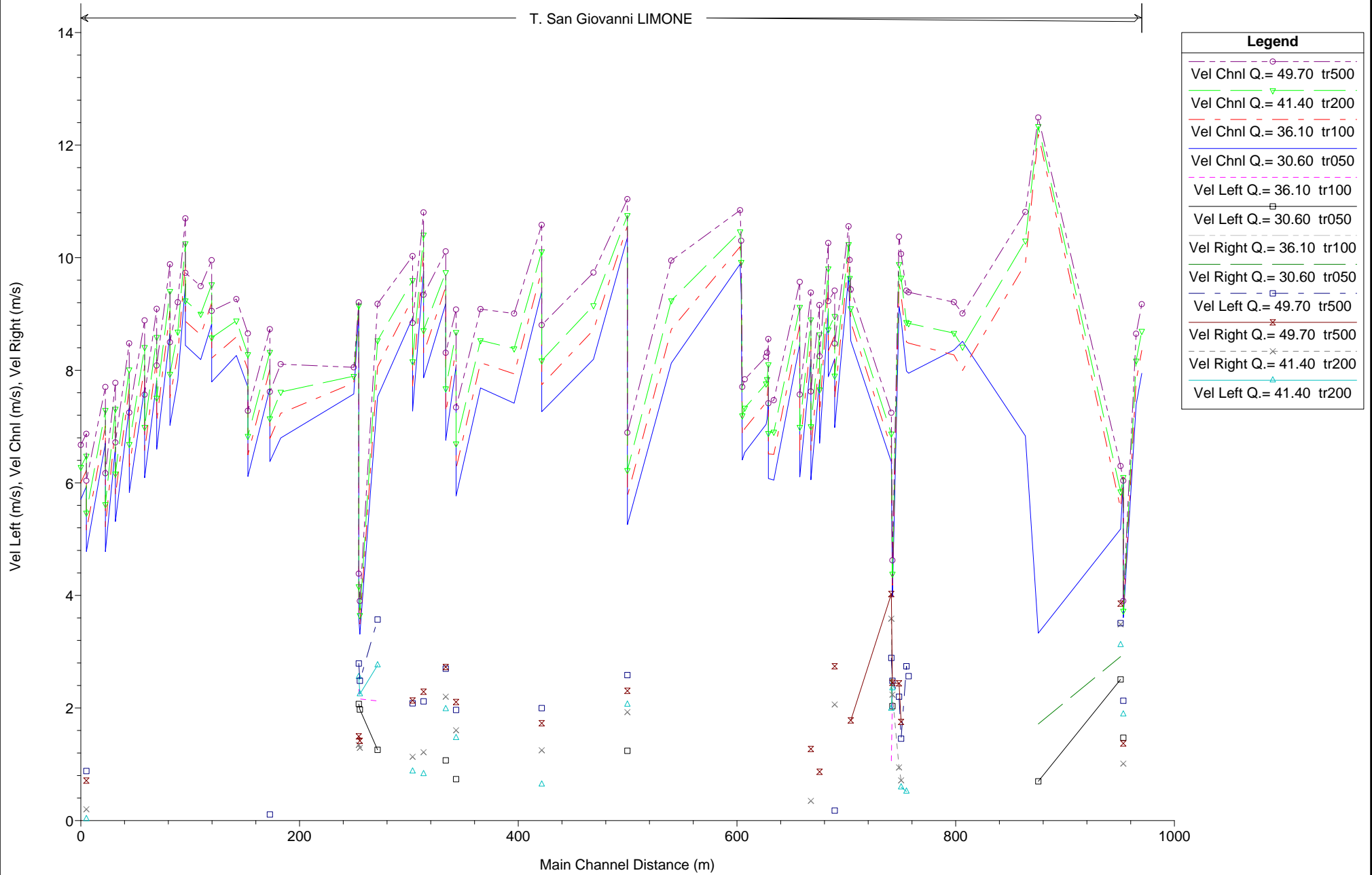
Limone Plan: Plan 01 01/10/2011 14.29.44
Geom: T. San Giovanni Flow: T.SanGiovanni
River = T. San Giovanni Reach = LIMONE RS = 0.5 Passarella Focce _ sez 0.5_39



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE



HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 30.60 tr050

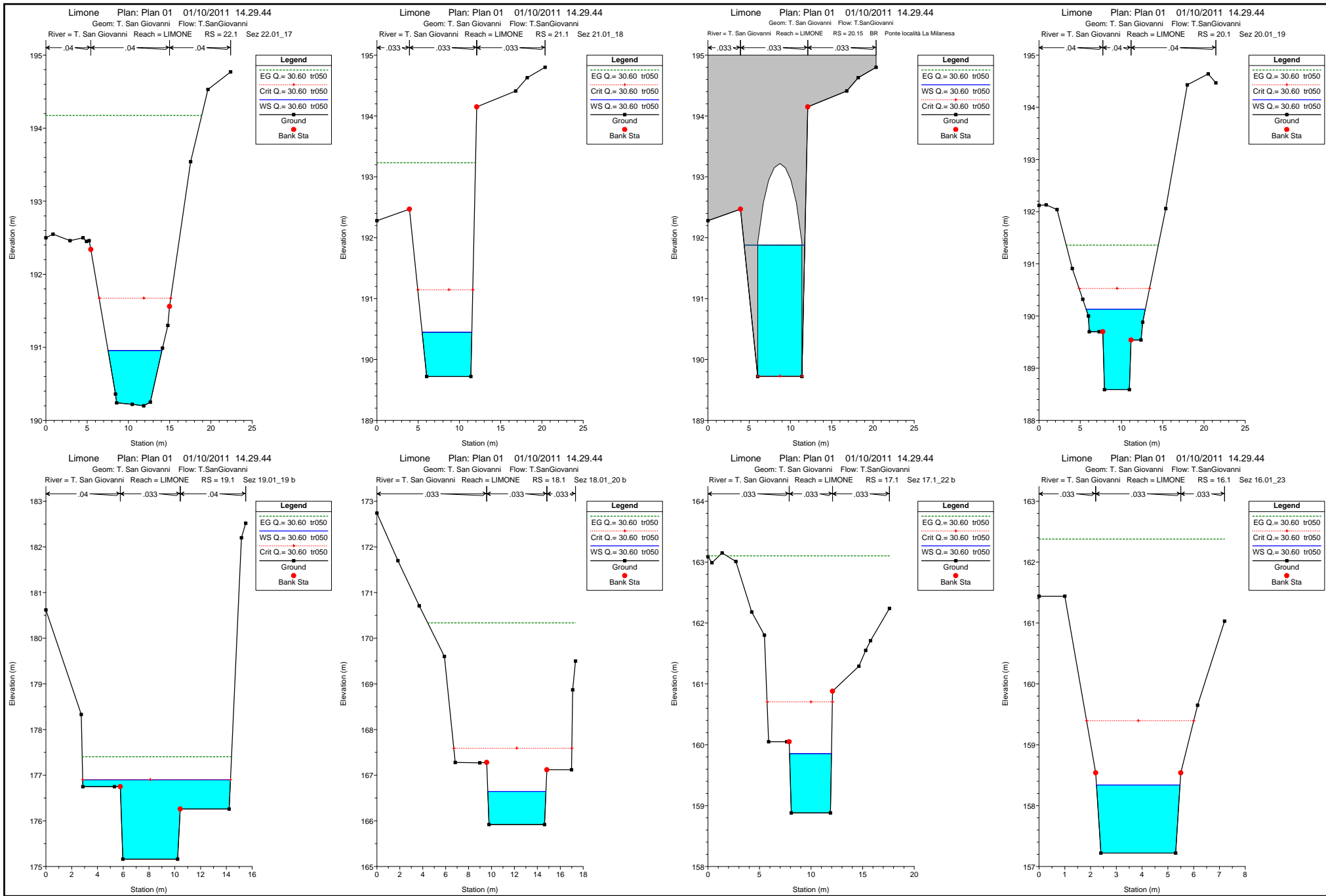
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
LIMONE	22.1	Q.= 30.60 tr050	30.60	190.20	190.96	191.67	194.17	0.220719	7.95	3.85	6.52	3.30
LIMONE	21.1	Q.= 30.60 tr050	30.60	189.72	190.45	191.15	193.23	0.120096	7.39	4.14	6.03	2.85
LIMONE	20.15		Bridge									
LIMONE	20.12	Q.= 30.60 tr050	30.60	189.41	191.17	191.17	191.81	0.017963	3.61	8.87	7.32	0.92
LIMONE	20.11	Q.= 30.60 tr050	30.60	188.64	189.83	190.40	191.69	0.080450	6.05	5.06	4.61	1.85
LIMONE	20.1	Q.= 30.60 tr050	30.60	188.59	190.13	190.53	191.36	0.043501	5.18	6.67	7.18	1.36
LIMONE	19.1	Q.= 30.60 tr050	30.60	175.16	176.90	176.90	177.40	0.010349	3.33	10.73	11.46	0.82
LIMONE	18.92	Q.= 30.60 tr050	30.60	173.58	174.57	175.30	176.95	0.081258	6.83	4.48	4.66	2.22
LIMONE	18.1	Q.= 30.60 tr050	30.60	165.92	166.64	167.59	170.34	0.167322	8.51	3.59	5.08	3.23
LIMONE	17.92	Q.= 30.60 tr050	30.60	164.70	165.47	166.43	169.03	0.154268	8.36	3.66	4.90	3.09
LIMONE	17.11	Q.= 30.60 tr050	30.60	159.15	160.12	160.97	163.34	0.118785	7.95	3.85	4.10	2.62
LIMONE	17.1	Q.= 30.60 tr050	30.60	158.88	159.85	160.70	163.10	0.119819	7.99	3.83	4.06	2.63
LIMONE	16.1	Q.= 30.60 tr050	30.60	157.22	158.34	159.40	162.38	0.148708	8.91	3.44	3.24	2.76
LIMONE	15.15	Q.= 30.60 tr050	30.60	156.81	157.81	158.84	162.06	0.163693	9.13	3.35	3.50	2.98
LIMONE	15.14		Bridge									
LIMONE	15.13	Q.= 30.60 tr050	30.60	156.81	158.84	158.84	159.59	0.013126	3.98	8.38	5.82	0.91
LIMONE	15.1	Q.= 30.60 tr050	30.60	156.19	157.42	158.03	159.44	0.059645	6.37	4.99	5.39	1.88
LIMONE	14.2	Q.= 30.60 tr050	30.60	151.39	152.17	153.15	155.87	0.158302	8.52	3.59	4.72	3.12
LIMONE	13.359	Q.= 30.60 tr050	30.60	150.72	151.46	152.39	155.65	0.192074	9.07	3.37	4.66	3.40
LIMONE	13.358	Q.= 30.60 tr050	30.60	149.92	150.61	151.57	155.38	0.234958	9.68	3.16	4.64	3.74
LIMONE	13.35	Q.= 30.60 tr050	30.60	149.59	150.43	151.15	152.91	0.093523	6.98	4.39	5.70	2.47
LIMONE	13.349	Q.= 30.60 tr050	30.60	148.66	149.39	150.20	152.82	0.153621	8.20	3.73	5.19	3.09
LIMONE	13.34	Q.= 30.60 tr050	30.60	147.98	148.70	149.50	151.87	0.140854	7.88	3.88	5.46	2.98
LIMONE	13.339	Q.= 30.60 tr050	30.60	146.94	147.58	148.43	151.77	0.216393	9.07	3.37	5.36	3.65
LIMONE	13.33	Q.= 30.60 tr050	30.60	147.05	147.85	148.59	150.14	0.089789	6.70	4.56	5.86	2.43
LIMONE	13.329	Q.= 30.60 tr050	30.60	146.25	146.94	147.69	150.05	0.143355	7.81	3.92	5.72	3.01
LIMONE	13.32	Q.= 30.60 tr050	30.60	146.22	147.06	147.69	148.92	0.068619	6.05	5.05	6.20	2.14
LIMONE	13.319	Q.= 30.60 tr050	30.60	144.72	145.35	146.11	148.77	0.173497	8.19	3.74	5.98	3.31
LIMONE	13.31	Q.= 30.60 tr050	30.60	144.54	145.33	145.86	147.22	0.073958	6.11	5.01	6.50	2.22
LIMONE	13.309	Q.= 30.60 tr050	30.60	142.82	143.39	144.15	147.05	0.203860	8.47	3.61	6.34	3.58
LIMONE	13.3	Q.= 30.60 tr050	30.60	141.53	142.23	142.75	144.09	0.060667	6.05	5.06	7.30	2.32
LIMONE	12.409	Q.= 30.60 tr050	30.60	141.20	141.91	142.44	143.79	0.060279	6.08	5.04	7.13	2.31
LIMONE	12.408	Q.= 30.60 tr050	30.60	140.30	140.88	141.54	143.70	0.113226	7.43	4.12	7.09	3.11
LIMONE	12.4	Q.= 30.60 tr050	30.60	140.30	140.91	141.54	143.50	0.099056	7.13	4.29	7.07	2.92
LIMONE	11.55	Q.= 30.60 tr050	30.60	140.25	140.87	141.49	143.39	0.094985	7.04	4.35	7.07	2.86
LIMONE	11.54		Bridge									
LIMONE	11.53	Q.= 30.60 tr050	30.60	139.93	140.59	141.17	142.78	0.075640	6.54	4.68	7.07	2.57
LIMONE	11.51	Q.= 30.60 tr050	30.60	139.80	140.50	141.06	142.59	0.068960	6.41	4.78	6.92	2.46
LIMONE	11.509	Q.= 30.60 tr050	30.60	137.30	137.78	138.57	142.24	0.225307	9.35	3.27	6.82	4.31
LIMONE	11.508	Q.= 30.60 tr050	30.60	136.50	136.96	137.77	141.94	0.268006	9.89	3.09	6.79	4.67

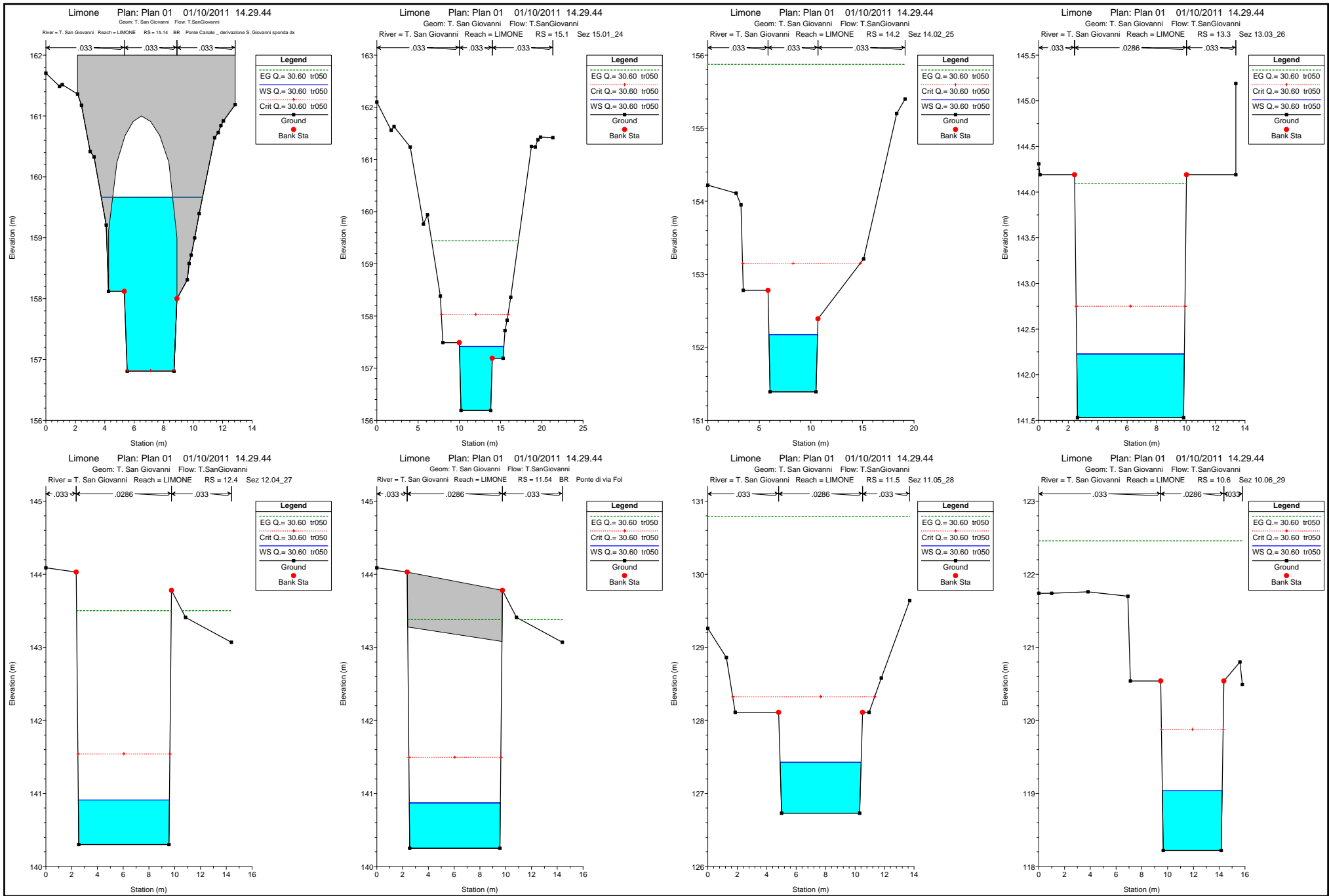
HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 30.60 tr050 (Continued)

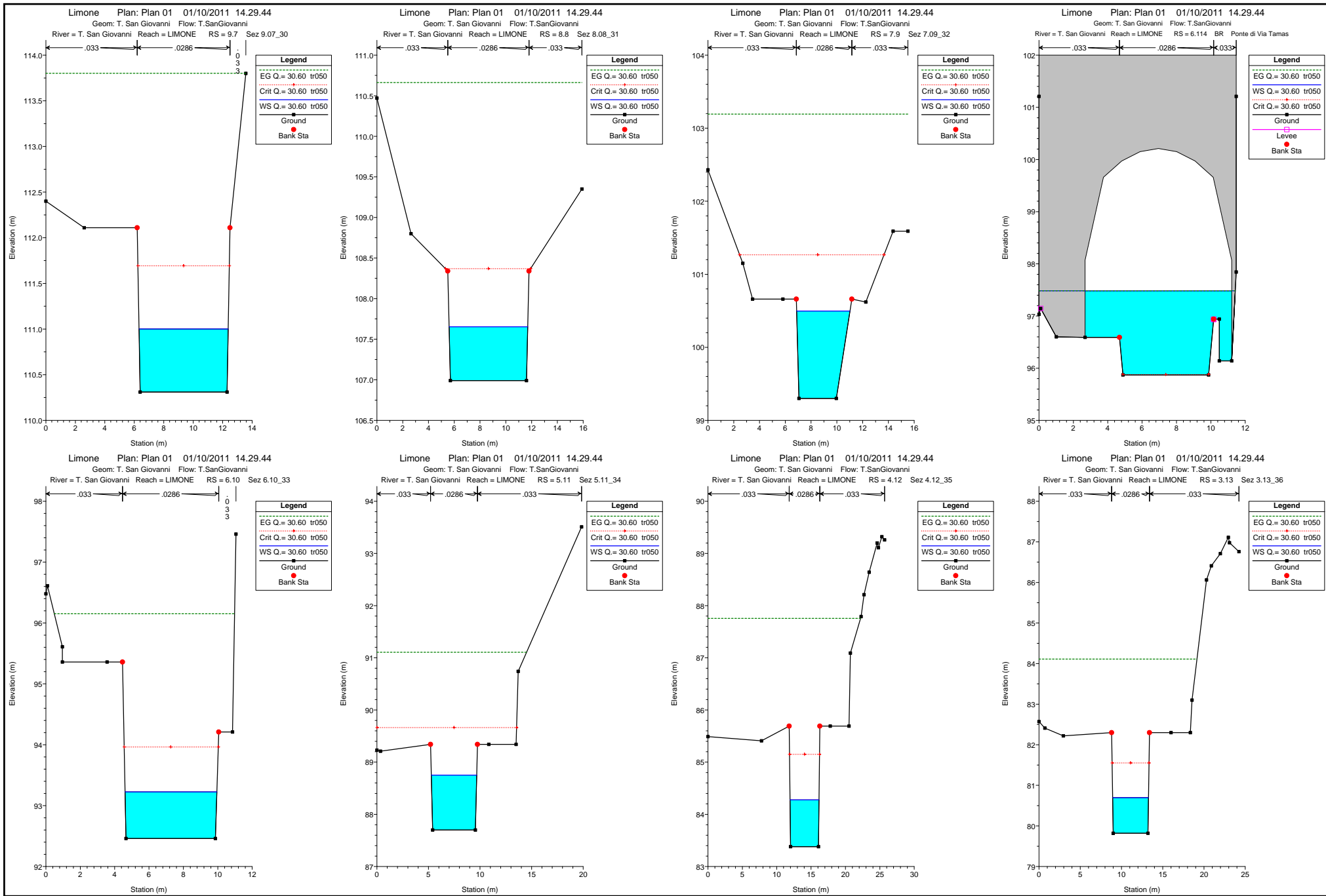
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
LIMONE	11.5	Q.= 30.60 tr050	30.60	126.73	127.43	128.32	130.79	0.116741	8.13	3.76	5.50	3.14
LIMONE	10.61	Q.= 30.60 tr050	30.60	125.67	126.78	127.22	128.15	0.028273	5.26	6.33	10.62	1.62
LIMONE	10.609	Q.= 30.60 tr050	30.60	121.67	122.28	123.26	127.74	0.228877	10.36	2.95	4.90	4.26
LIMONE	10.6	Q.= 30.60 tr050	30.60	118.22	119.04	119.88	122.46	0.106595	8.19	3.73	4.64	2.92
LIMONE	9.71	Q.= 30.60 tr050	30.60	114.33	115.08	115.86	117.77	0.084212	7.26	4.21	5.78	2.72
LIMONE	9.709	Q.= 30.60 tr050	30.60	112.49	113.09	113.96	117.59	0.185544	9.40	3.26	5.50	3.90
LIMONE	9.7	Q.= 30.60 tr050	30.60	110.31	111.00	111.69	113.80	0.096007	7.41	4.13	6.05	2.87
LIMONE	8.8	Q.= 30.60 tr050	30.60	106.99	107.65	108.37	110.66	0.107278	7.69	3.98	6.10	3.04
LIMONE	7.93	Q.= 30.60 tr050	30.60	106.23	107.24	107.79	108.93	0.038387	5.76	5.37	7.11	1.89
LIMONE	7.929	Q.= 30.60 tr050	30.60	104.68	105.44	106.24	108.76	0.107220	8.07	3.79	5.08	2.99
LIMONE	7.92	Q.= 30.60 tr050	30.60	104.50	105.42	106.04	107.74	0.058253	6.76	4.66	7.95	2.34
LIMONE	7.919	Q.= 30.60 tr050	30.60	102.50	103.24	104.17	107.54	0.147181	9.18	3.33	4.62	3.45
LIMONE	7.91	Q.= 30.60 tr050	30.60	100.82	101.81	102.59	104.96	0.084920	7.87	3.89	4.48	2.69
LIMONE	7.909	Q.= 30.60 tr050	30.60	99.06	99.94	101.00	104.79	0.152618	9.76	3.14	3.76	3.41
LIMONE	7.9	Q.= 30.60 tr050	30.60	99.30	100.50	101.27	103.19	0.064971	7.27	4.21	4.13	2.30
LIMONE	6.119	Q.= 30.60 tr050	30.60	97.91	98.99	100.01	103.05	0.112667	8.93	3.43	3.45	2.86
LIMONE	6.115	Q.= 30.60 tr050	30.60	95.87	96.65	97.25	99.51	0.088417	7.53	4.23	9.15	2.78
LIMONE	6.114		Bridge									
LIMONE	6.113	Q.= 30.60 tr050	30.60	95.55	96.95	96.95	97.44	0.008600	3.31	10.78	11.04	0.91
LIMONE	6.11	Q.= 30.60 tr050	30.60	95.49	96.84	96.91	97.42	0.010536	3.58	9.60	9.75	1.00
LIMONE	6.109	Q.= 30.60 tr050	30.60	92.22	92.89	93.77	97.06	0.154224	9.04	3.38	5.06	3.53
LIMONE	6.10	Q.= 30.60 tr050	30.60	92.46	93.23	93.96	96.15	0.093008	7.58	4.04	5.34	2.78
LIMONE	5.11	Q.= 30.60 tr050	30.60	87.70	88.75	89.66	91.11	0.058786	6.80	4.50	4.41	2.15
LIMONE	4.14	Q.= 30.60 tr050	30.60	87.29	88.42	89.26	90.49	0.048755	6.38	4.80	4.40	1.95
LIMONE	4.139	Q.= 30.60 tr050	30.60	86.44	87.39	88.20	90.39	0.083783	7.68	3.98	4.28	2.54
LIMONE	4.13	Q.= 30.60 tr050	30.60	85.80	86.99	87.82	88.89	0.043045	6.11	5.01	4.34	1.82
LIMONE	4.129	Q.= 30.60 tr050	30.60	84.80	85.76	86.57	88.78	0.084030	7.70	3.97	4.21	2.53
LIMONE	4.12	Q.= 30.60 tr050	30.60	83.38	84.28	85.15	87.76	0.102751	8.26	3.70	4.21	2.81
LIMONE	3.14	Q.= 30.60 tr050	30.60	81.49	82.41	83.58	85.51	0.087647	7.79	3.93	4.36	2.62
LIMONE	3.139	Q.= 30.60 tr050	30.60	80.63	81.45	82.38	85.42	0.126507	8.82	3.47	4.28	3.13
LIMONE	3.13	Q.= 30.60 tr050	30.60	79.82	80.70	81.55	84.11	0.102132	8.19	3.74	4.34	2.82
LIMONE	2.15	Q.= 30.60 tr050	30.60	78.10	78.97	79.87	82.61	0.109667	8.44	3.62	4.22	2.91
LIMONE	2.149	Q.= 30.60 tr050	30.60	77.09	77.87	78.86	82.50	0.157387	9.54	3.21	4.16	3.47
LIMONE	2.14	Q.= 30.60 tr050	30.60	77.18	78.14	78.96	81.25	0.086929	7.82	3.91	4.17	2.58
LIMONE	1.19	Q.= 30.60 tr050	30.60	77.03	78.03	78.74	80.54	0.065319	7.02	4.36	4.47	2.27
LIMONE	1.189	Q.= 30.60 tr050	30.60	75.77	76.59	77.49	80.41	0.121133	8.66	3.53	4.35	3.07
LIMONE	1.18	Q.= 30.60 tr050	30.60	75.76	76.74	77.38	78.95	0.057080	6.60	4.64	4.85	2.15
LIMONE	1.179	Q.= 30.60 tr050	30.60	74.92	75.75	76.54	78.86	0.094438	7.82	3.92	4.76	2.75
LIMONE	1.17	Q.= 30.60 tr050	30.60	74.91	75.90	76.46	77.79	0.046844	6.09	5.02	5.18	1.97
LIMONE	1.169	Q.= 30.60 tr050	30.60	73.87	74.66	75.43	77.68	0.094177	7.69	3.98	5.08	2.77

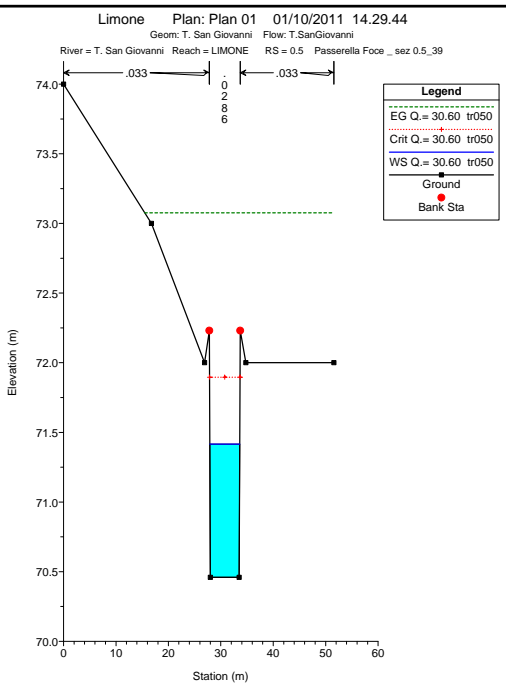
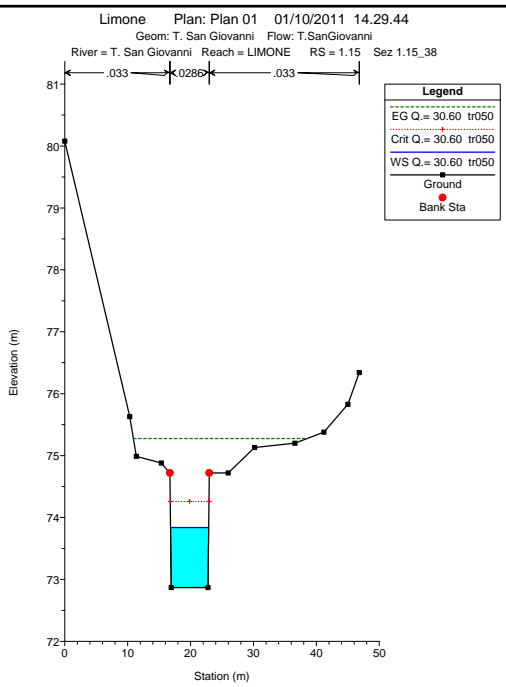
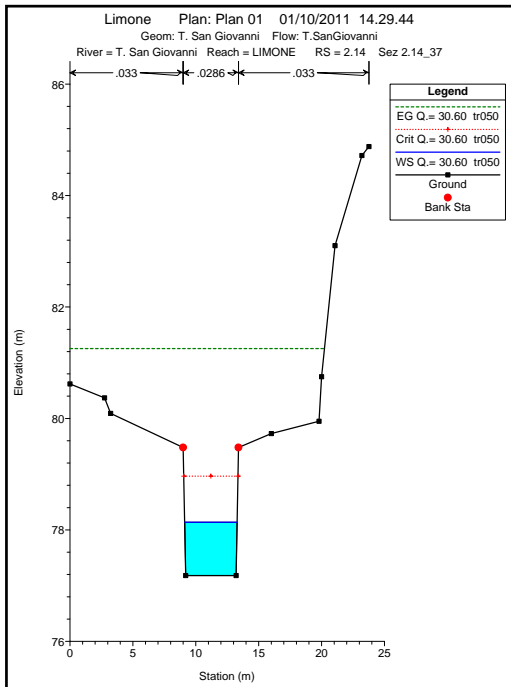
HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 30.60 tr050 (Continued)

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
LIMONE	1.16	Q.= 30.60 tr050	30.60	73.75	74.69	75.21	76.42	0.043498	5.83	5.25	5.68	1.93
LIMONE	1.159	Q.= 30.60 tr050	30.60	72.83	73.59	74.29	76.32	0.086876	7.33	4.18	5.57	2.70
LIMONE	1.15	Q.= 30.60 tr050	30.60	72.87	73.84	74.26	75.28	0.034575	5.31	5.76	6.06	1.74
LIMONE	0.79	Q.= 30.60 tr050	30.60	72.17	72.95	73.56	75.19	0.067812	6.63	4.61	5.97	2.41
LIMONE	0.7	Q.= 30.60 tr050	30.60	72.27	73.36	73.68	74.52	0.024843	4.78	6.41	6.04	1.48
LIMONE	0.69	Q.= 30.60 tr050	30.60	71.33	72.12	72.74	74.41	0.069055	6.71	4.56	5.87	2.43
LIMONE	0.6	Q.= 30.60 tr050	30.60	71.12	72.24	72.80	73.40	0.024402	4.78	6.40	5.89	1.46
LIMONE	0.59	Q.= 30.60 tr050	30.60	70.63	71.54	72.07	73.34	0.046571	5.94	5.16	5.76	2.00
LIMONE	0.5	Q.= 30.60 tr050	30.60	70.46	71.42	71.90	73.08	0.041128	5.71	5.36	5.72	1.88





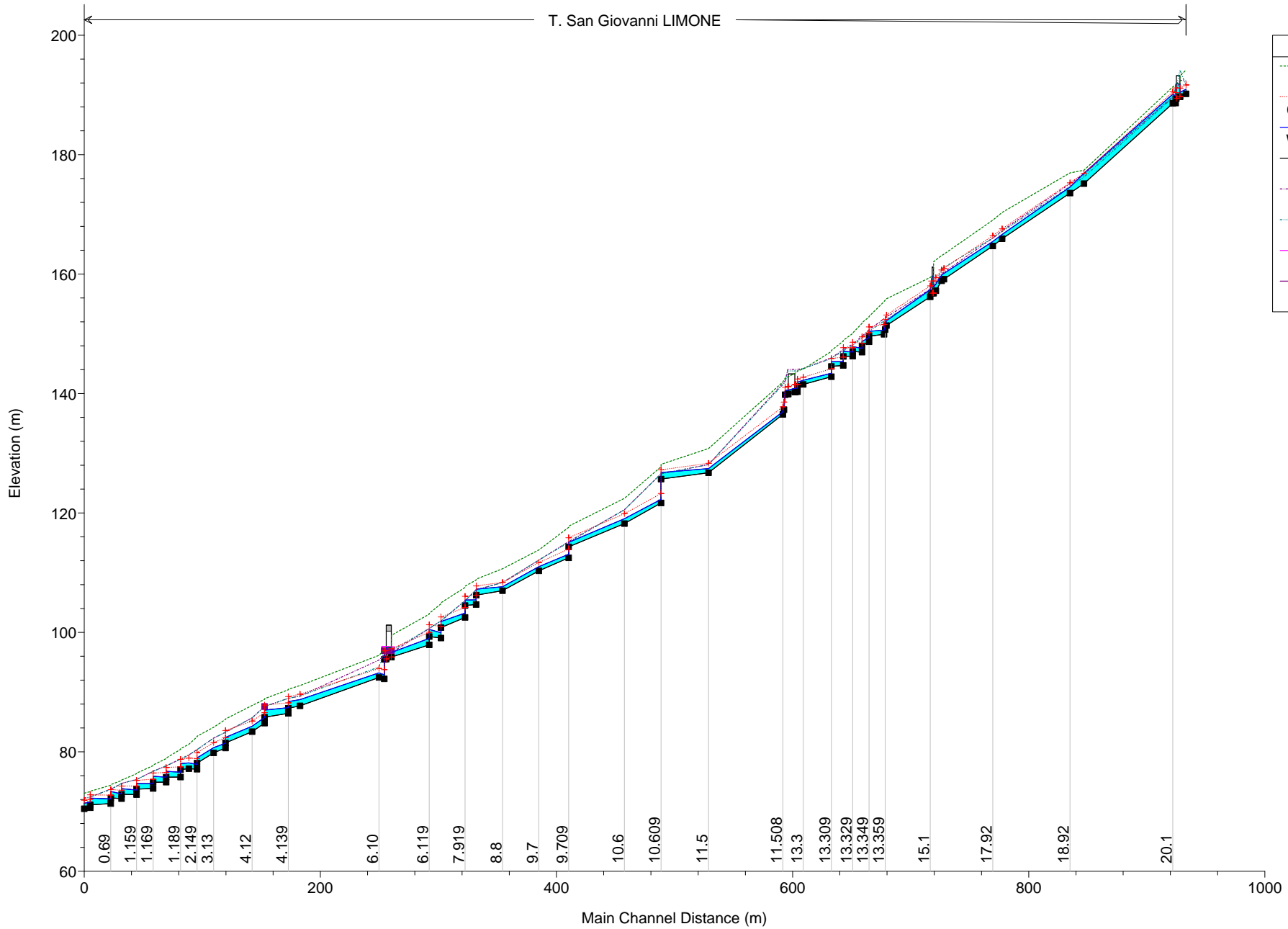




Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE

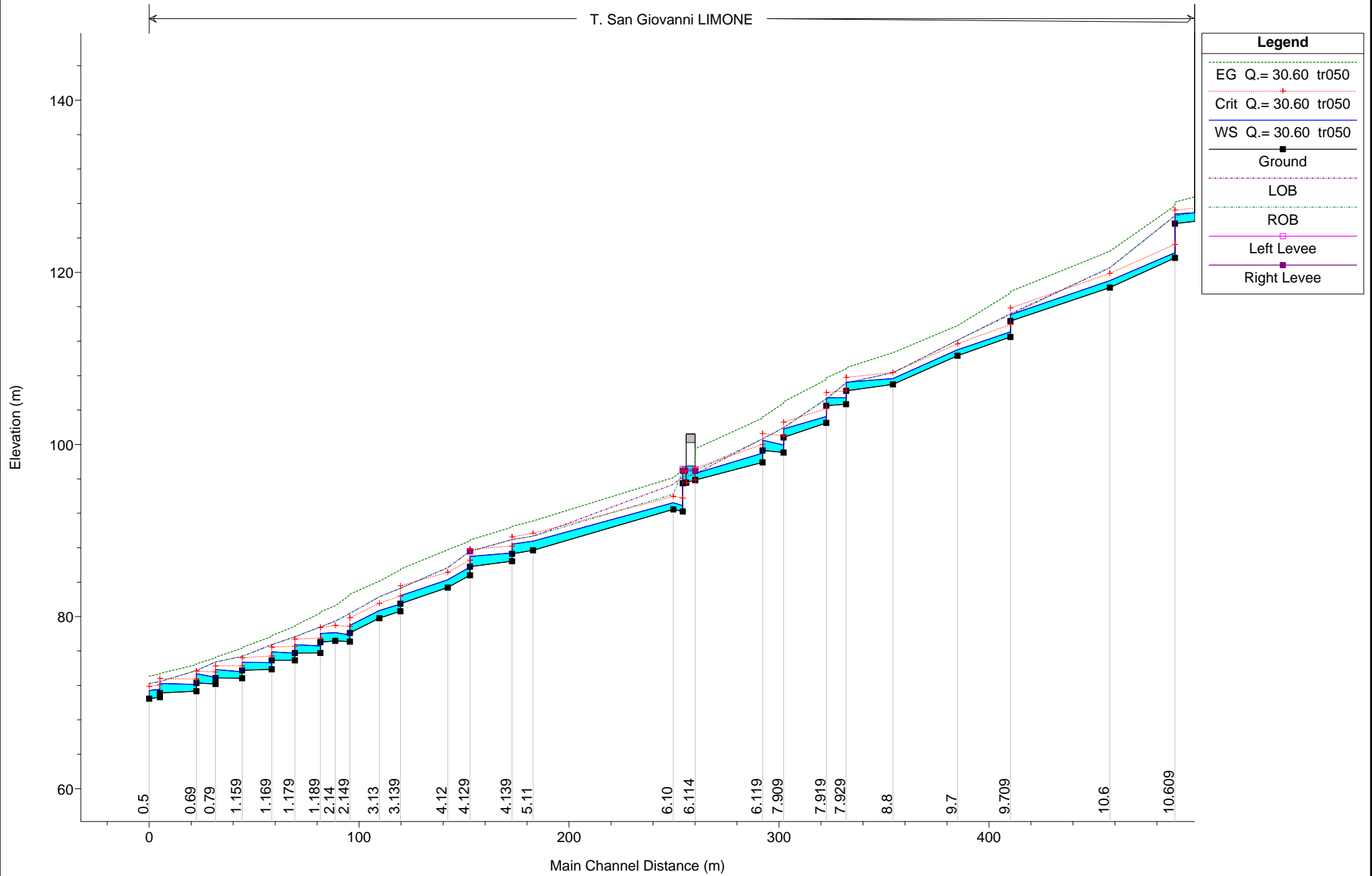


Legend	
EG Q.= 30.60 tr050	(Dashed green line)
Crit Q.= 30.60 tr050	(Dotted red line)
WS Q.= 30.60 tr050	(Solid red line)
Ground	(Solid black line with square markers)
LOB	(Dashed cyan line)
ROB	(Dotted cyan line)
Left Levee	(Solid magenta line with square markers)
Right Levee	(Solid purple line with square markers)

Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

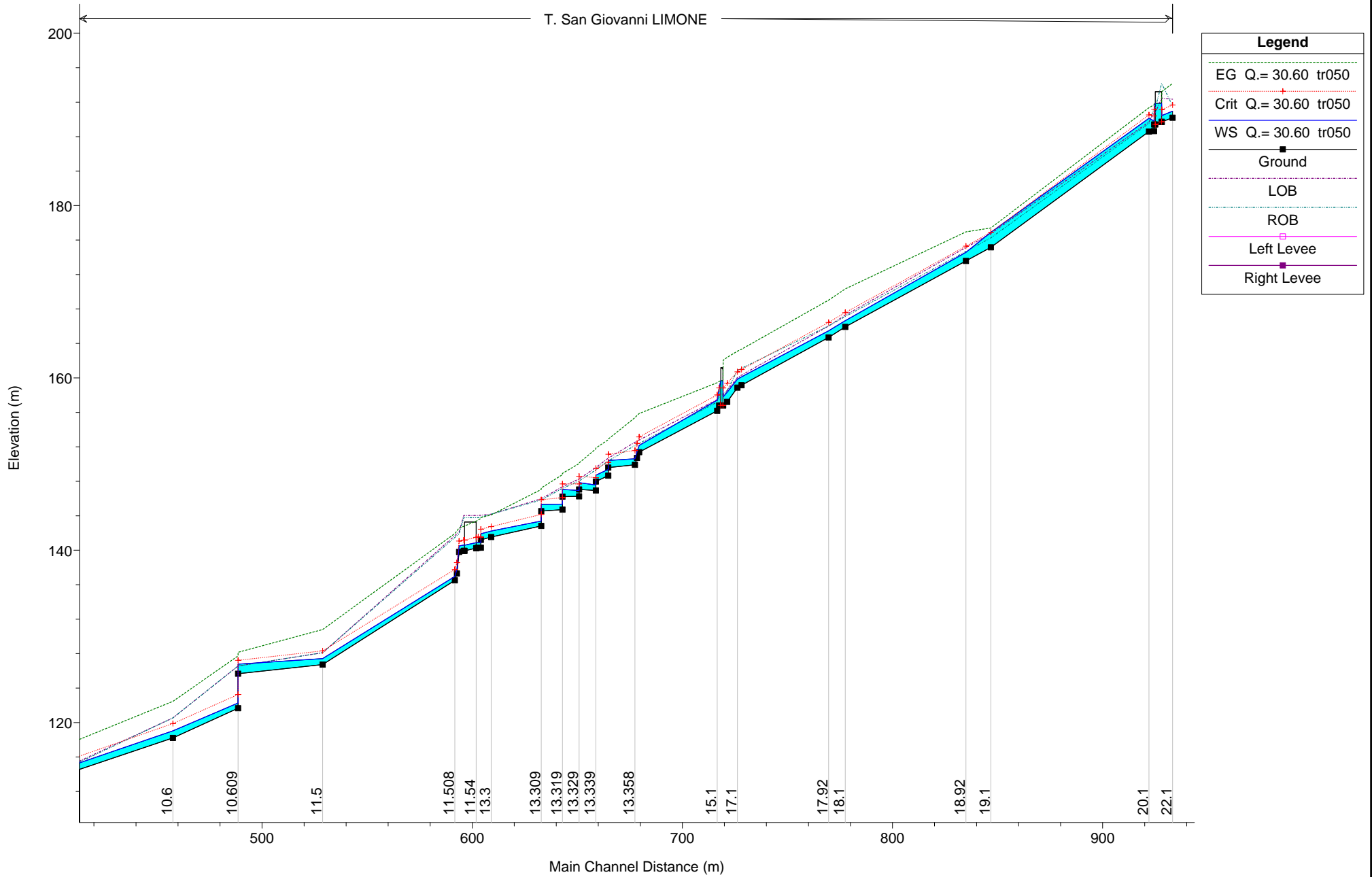
T. San Giovanni LIMONE



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE



HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 36.10 tr100

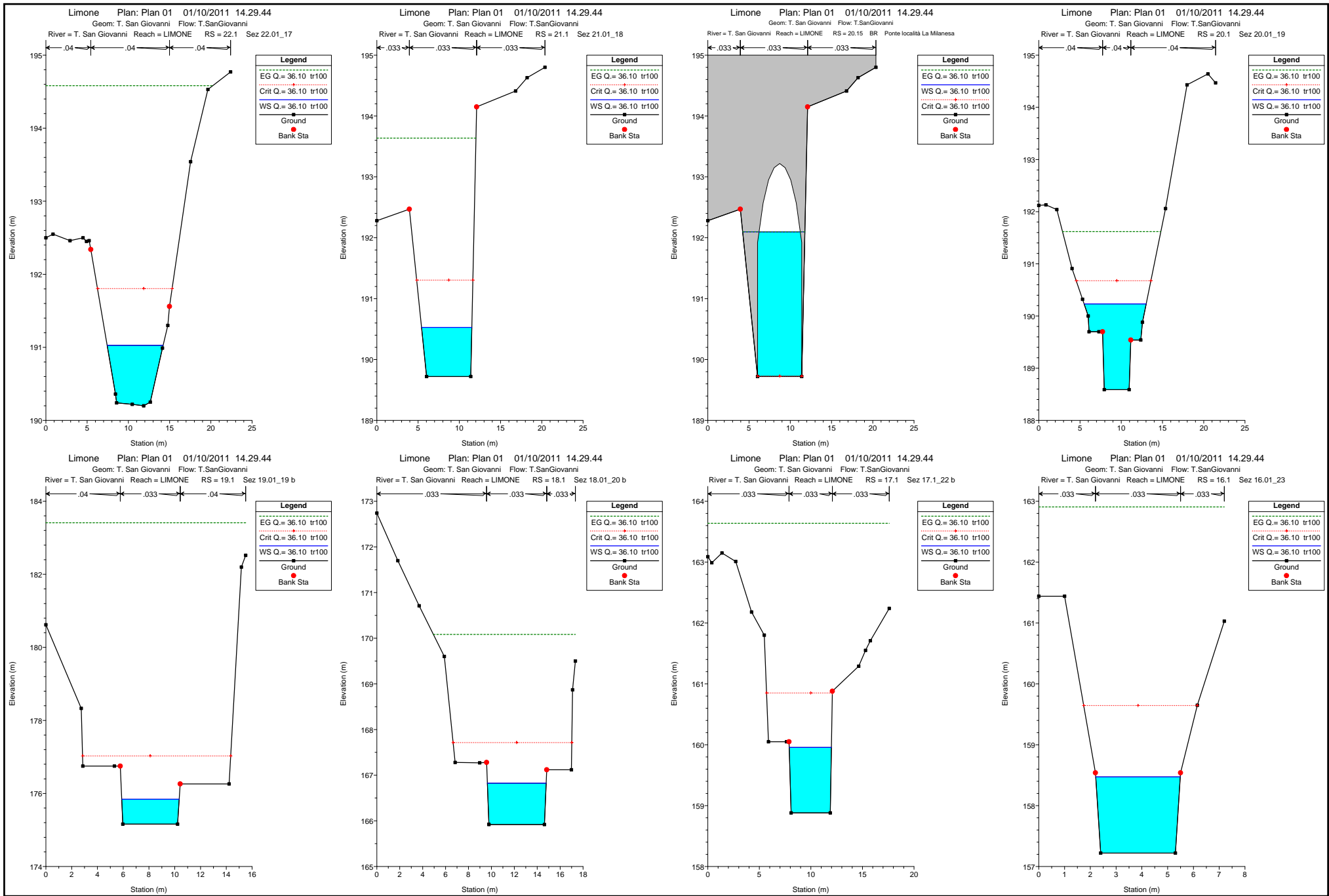
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
LIMONE	22.1	Q.= 36.10 tr100	36.10	190.20	191.03	191.80	194.58	0.220787	8.35	4.32	6.77	3.34
LIMONE	21.1	Q.= 36.10 tr100	36.10	189.72	190.53	191.30	193.64	0.119815	7.81	4.62	6.10	2.87
LIMONE	20.15		Bridge									
LIMONE	20.12	Q.= 36.10 tr100	36.10	189.41	191.37	191.37	192.03	0.016316	3.68	10.47	9.10	0.88
LIMONE	20.11	Q.= 36.10 tr100	36.10	188.64	190.01	190.59	191.91	0.071698	6.10	5.92	4.72	1.74
LIMONE	20.1	Q.= 36.10 tr100	36.10	188.59	190.23	190.68	191.62	0.045684	5.55	7.41	7.53	1.41
LIMONE	19.1	Q.= 36.10 tr100	36.10	175.16	175.84	177.03	183.41	0.380925	12.19	2.96	4.46	4.78
LIMONE	18.92	Q.= 36.10 tr100	36.10	173.58	174.39	175.43	179.38	0.206957	9.89	3.65	4.60	3.55
LIMONE	18.1	Q.= 36.10 tr100	36.10	165.92	166.82	167.72	170.08	0.117475	8.00	4.51	5.13	2.72
LIMONE	17.92	Q.= 36.10 tr100	36.10	164.70	165.61	166.57	169.10	0.126881	8.27	4.36	4.94	2.81
LIMONE	17.11	Q.= 36.10 tr100	36.10	159.15	160.22	161.11	163.88	0.123820	8.48	4.26	4.13	2.67
LIMONE	17.1	Q.= 36.10 tr100	36.10	158.88	159.96	160.85	163.64	0.124064	8.50	4.25	4.09	2.66
LIMONE	16.1	Q.= 36.10 tr100	36.10	157.22	158.47	159.64	162.91	0.149034	9.33	3.87	3.28	2.74
LIMONE	15.15	Q.= 36.10 tr100	36.10	156.81	157.93	159.03	162.58	0.162413	9.56	3.78	3.54	2.95
LIMONE	15.14		Bridge									
LIMONE	15.13	Q.= 36.10 tr100	36.10	156.81	159.03	159.03	159.85	0.012793	4.18	9.51	6.00	0.91
LIMONE	15.1	Q.= 36.10 tr100	36.10	156.19	157.55	158.18	159.70	0.056842	6.62	5.81	7.47	1.85
LIMONE	14.2	Q.= 36.10 tr100	36.10	151.39	152.28	153.30	156.27	0.150874	8.85	4.08	4.75	3.05
LIMONE	13.359	Q.= 36.10 tr100	36.10	150.72	151.56	152.77	156.05	0.180994	9.40	3.84	4.68	3.31
LIMONE	13.358	Q.= 36.10 tr100	36.10	149.92	150.71	151.76	155.80	0.219156	10.00	3.61	4.66	3.62
LIMONE	13.35	Q.= 36.10 tr100	36.10	149.59	150.51	151.27	153.36	0.096381	7.49	4.86	6.19	2.53
LIMONE	13.349	Q.= 36.10 tr100	36.10	148.66	149.48	150.37	153.26	0.150712	8.62	4.19	5.21	3.07
LIMONE	13.34	Q.= 36.10 tr100	36.10	147.98	148.79	149.79	152.33	0.140831	8.34	4.33	5.48	3.00
LIMONE	13.339	Q.= 36.10 tr100	36.10	146.94	147.66	148.61	152.23	0.207198	9.47	3.81	5.38	3.59
LIMONE	13.33	Q.= 36.10 tr100	36.10	147.05	147.92	148.72	150.58	0.094929	7.22	5.00	5.89	2.50
LIMONE	13.329	Q.= 36.10 tr100	36.10	146.25	147.02	147.85	150.50	0.142470	8.26	4.37	5.74	3.02
LIMONE	13.32	Q.= 36.10 tr100	36.10	146.22	147.13	147.82	149.32	0.073929	6.56	5.50	6.23	2.23
LIMONE	13.319	Q.= 36.10 tr100	36.10	144.72	145.43	146.27	149.17	0.166437	8.57	4.21	5.99	3.26
LIMONE	13.31	Q.= 36.10 tr100	36.10	144.54	145.40	146.14	147.60	0.077961	6.58	5.49	6.52	2.29
LIMONE	13.309	Q.= 36.10 tr100	36.10	142.82	143.47	144.31	147.43	0.191861	8.81	4.10	6.35	3.50
LIMONE	13.3	Q.= 36.10 tr100	36.10	141.53	142.29	142.89	144.45	0.063389	6.51	5.55	7.32	2.38
LIMONE	12.409	Q.= 36.10 tr100	36.10	141.20	141.98	142.58	144.14	0.062339	6.51	5.54	7.14	2.36
LIMONE	12.408	Q.= 36.10 tr100	36.10	140.30	140.96	141.68	144.05	0.108849	7.79	4.63	7.10	3.08
LIMONE	12.4	Q.= 36.10 tr100	36.10	140.30	140.98	141.69	143.86	0.096767	7.51	4.80	7.08	2.91
LIMONE	11.55	Q.= 36.10 tr100	36.10	140.25	140.94	141.63	143.75	0.093405	7.43	4.86	7.08	2.86
LIMONE	11.54		Bridge									
LIMONE	11.53	Q.= 36.10 tr100	36.10	139.93	140.67	141.32	143.14	0.076468	6.97	5.18	7.07	2.60
LIMONE	11.51	Q.= 36.10 tr100	36.10	139.80	140.57	141.21	142.95	0.070078	6.83	5.29	6.94	2.50
LIMONE	11.509	Q.= 36.10 tr100	36.10	137.30	137.85	138.72	142.60	0.205552	9.65	3.74	6.82	4.16
LIMONE	11.508	Q.= 36.10 tr100	36.10	136.50	137.02	137.92	142.32	0.243458	10.19	3.54	6.79	4.51

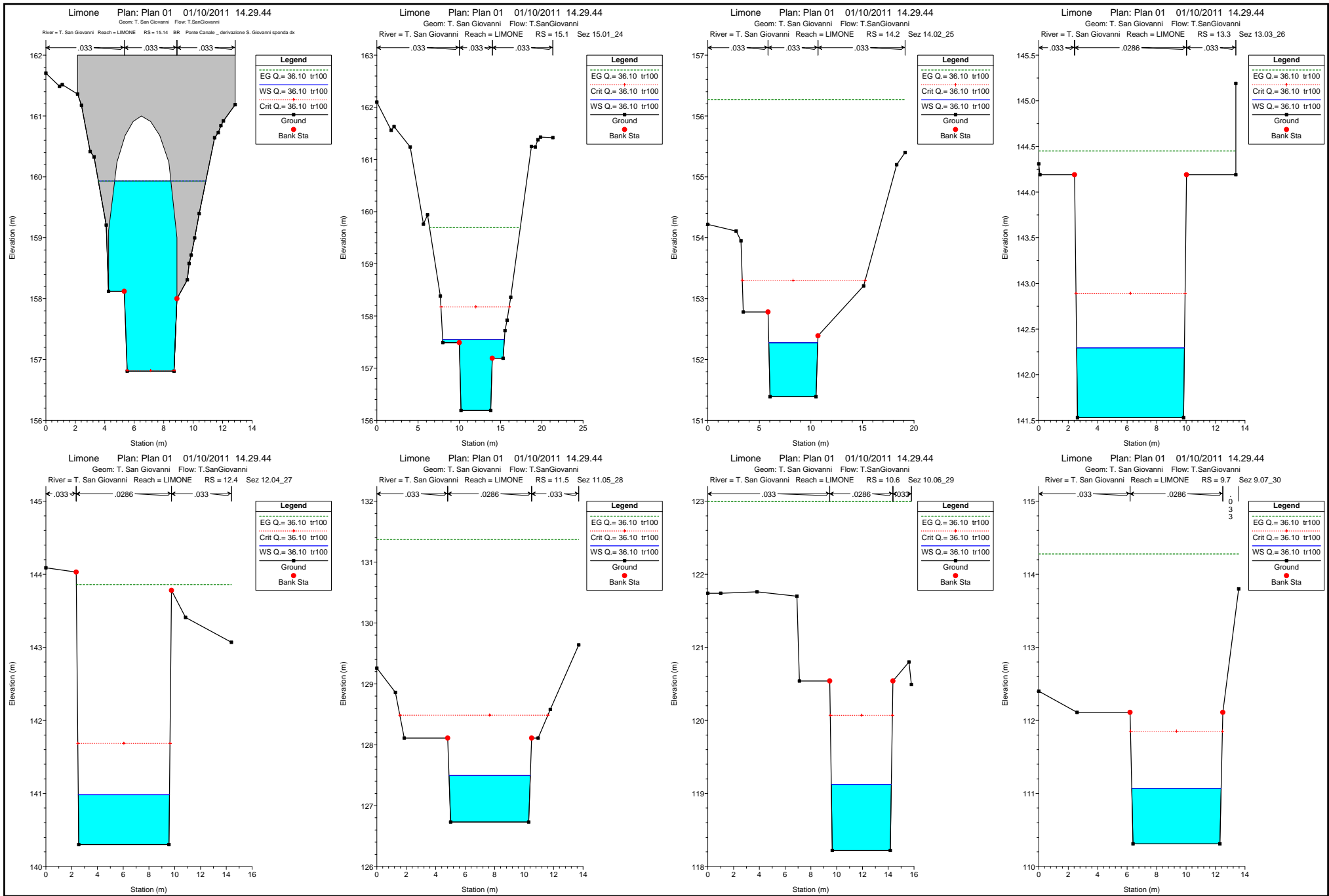
HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 36.10 tr100 (Continued)

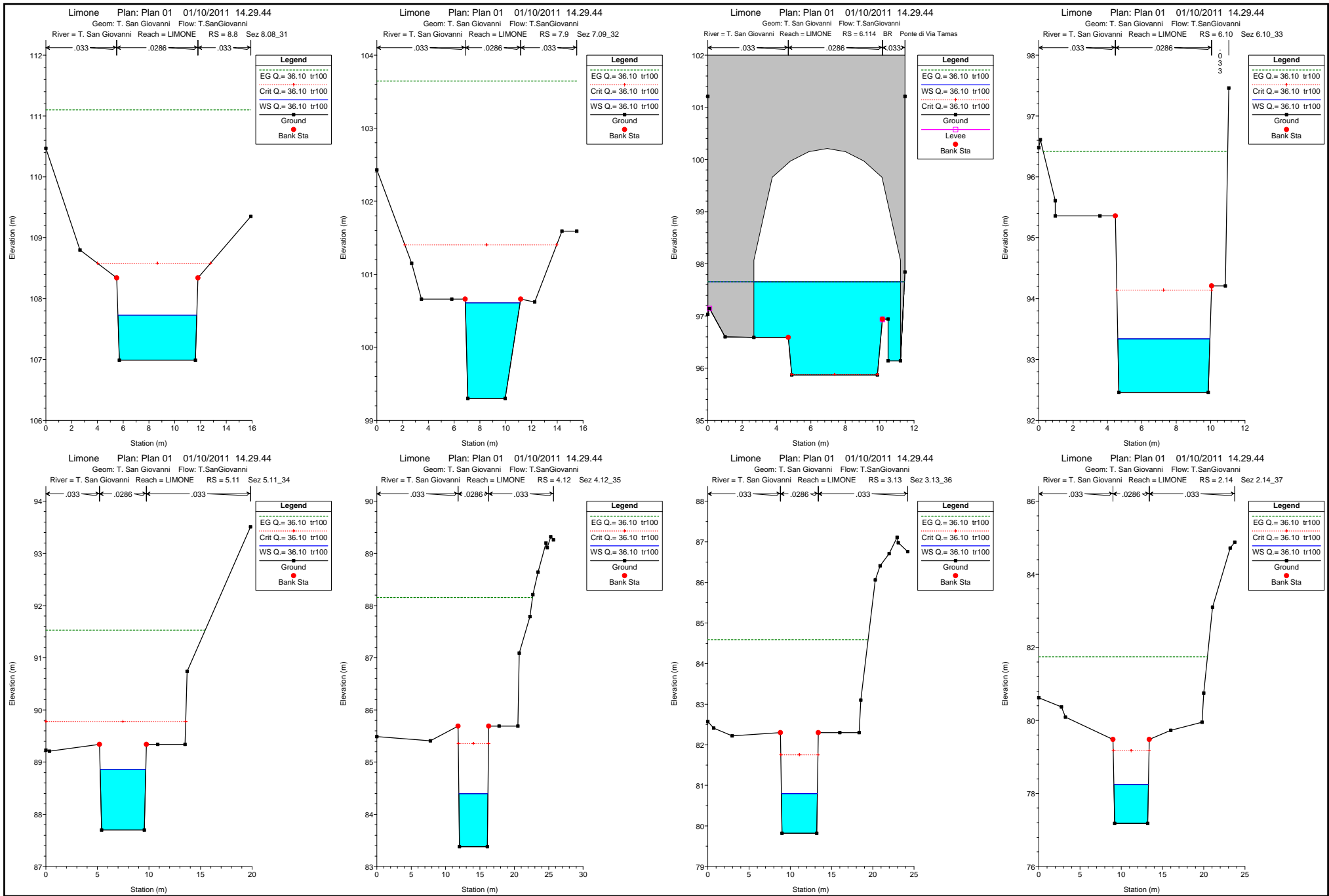
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
LIMONE	11.5	Q.= 36.10 tr100	36.10	126.73	127.49	128.49	131.37	0.121867	8.73	4.14	5.52	3.22
LIMONE	10.61	Q.= 36.10 tr100	36.10	125.67	126.84	127.30	128.46	0.031670	5.77	6.97	10.83	1.73
LIMONE	10.609	Q.= 36.10 tr100	36.10	121.67	122.37	123.44	128.06	0.204159	10.56	3.42	4.91	4.04
LIMONE	10.6	Q.= 36.10 tr100	36.10	118.22	119.12	120.07	123.00	0.109078	8.72	4.14	4.66	2.95
LIMONE	9.71	Q.= 36.10 tr100	36.10	114.33	115.16	115.97	118.22	0.084879	7.74	4.66	5.87	2.76
LIMONE	9.709	Q.= 36.10 tr100	36.10	112.49	113.17	114.13	118.03	0.174949	9.77	3.69	5.51	3.81
LIMONE	9.7	Q.= 36.10 tr100	36.10	110.31	111.07	111.85	114.28	0.099131	7.94	4.55	6.07	2.93
LIMONE	8.8	Q.= 36.10 tr100	36.10	106.99	107.73	108.58	111.10	0.106908	8.13	4.44	6.12	3.05
LIMONE	7.93	Q.= 36.10 tr100	36.10	106.23	107.31	107.91	109.29	0.040750	6.26	5.96	8.39	1.97
LIMONE	7.929	Q.= 36.10 tr100	36.10	104.68	105.54	106.43	109.13	0.102016	8.39	4.30	5.11	2.92
LIMONE	7.92	Q.= 36.10 tr100	36.10	104.50	105.50	106.14	108.12	0.059751	7.24	5.30	9.22	2.40
LIMONE	7.919	Q.= 36.10 tr100	36.10	102.50	103.34	104.36	107.92	0.137618	9.48	3.81	4.65	3.34
LIMONE	7.91	Q.= 36.10 tr100	36.10	100.82	101.91	102.74	105.42	0.086006	8.30	4.35	4.59	2.72
LIMONE	7.909	Q.= 36.10 tr100	36.10	99.06	100.06	101.21	105.25	0.145677	10.10	3.58	3.81	3.33
LIMONE	7.9	Q.= 36.10 tr100	36.10	99.30	100.61	101.40	103.65	0.067511	7.72	4.68	4.25	2.35
LIMONE	6.119	Q.= 36.10 tr100	36.10	97.91	99.12	100.24	103.51	0.110067	9.28	3.89	3.52	2.82
LIMONE	6.115	Q.= 36.10 tr100	36.10	95.87	96.71	97.36	99.94	0.092384	8.06	4.79	9.27	2.87
LIMONE	6.114		Bridge									
LIMONE	6.113	Q.= 36.10 tr100	36.10	95.55	97.07	97.07	97.60	0.008570	3.49	12.09	11.18	0.92
LIMONE	6.11	Q.= 36.10 tr100	36.10	95.49	96.93	97.01	97.60	0.011394	3.87	10.49	9.86	1.05
LIMONE	6.109	Q.= 36.10 tr100	36.10	92.22	93.01	93.95	97.24	0.133431	9.12	3.96	5.07	3.30
LIMONE	6.10	Q.= 36.10 tr100	36.10	92.46	93.34	94.14	96.42	0.084981	7.78	4.64	5.36	2.67
LIMONE	5.11	Q.= 36.10 tr100	36.10	87.70	88.86	89.78	91.53	0.060831	7.24	4.99	4.43	2.18
LIMONE	4.14	Q.= 36.10 tr100	36.10	87.29	88.53	89.36	90.88	0.050539	6.79	5.32	4.42	1.98
LIMONE	4.139	Q.= 36.10 tr100	36.10	86.44	87.51	88.40	90.79	0.081818	8.02	4.50	4.30	2.50
LIMONE	4.13	Q.= 36.10 tr100	36.10	85.80	87.12	87.92	89.27	0.044542	6.50	5.56	4.37	1.84
LIMONE	4.129	Q.= 36.10 tr100	36.10	84.80	85.88	86.77	89.15	0.081152	8.01	4.51	4.23	2.48
LIMONE	4.12	Q.= 36.10 tr100	36.10	83.38	84.40	85.36	88.16	0.099035	8.59	4.20	4.23	2.75
LIMONE	3.14	Q.= 36.10 tr100	36.10	81.49	82.52	83.68	85.96	0.087872	8.22	4.39	4.38	2.62
LIMONE	3.139	Q.= 36.10 tr100	36.10	80.63	81.56	82.58	85.87	0.122399	9.20	3.92	4.29	3.07
LIMONE	3.13	Q.= 36.10 tr100	36.10	79.82	80.80	81.75	84.59	0.101984	8.63	4.18	4.36	2.81
LIMONE	2.15	Q.= 36.10 tr100	36.10	78.10	79.08	80.07	83.09	0.108814	8.87	4.07	4.24	2.89
LIMONE	2.149	Q.= 36.10 tr100	36.10	77.09	77.97	79.07	82.99	0.151078	9.92	3.64	4.17	3.39
LIMONE	2.14	Q.= 36.10 tr100	36.10	77.18	78.24	79.17	81.74	0.088674	8.29	4.36	4.18	2.59
LIMONE	1.19	Q.= 36.10 tr100	36.10	77.03	78.13	79.20	81.00	0.068421	7.51	4.81	4.49	2.32
LIMONE	1.189	Q.= 36.10 tr100	36.10	75.77	76.70	77.69	80.87	0.118211	9.05	3.99	4.36	3.02
LIMONE	1.18	Q.= 36.10 tr100	36.10	75.76	76.83	77.57	79.39	0.060329	7.09	5.09	4.87	2.21
LIMONE	1.179	Q.= 36.10 tr100	36.10	74.92	75.85	76.73	79.30	0.093666	8.23	4.39	4.78	2.74
LIMONE	1.17	Q.= 36.10 tr100	36.10	74.91	75.99	76.64	78.19	0.050106	6.57	5.49	5.20	2.04
LIMONE	1.169	Q.= 36.10 tr100	36.10	73.87	74.76	75.60	78.08	0.092200	8.07	4.47	5.09	2.75

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 36.10 tr100 (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
LIMONE	1.16	Q.= 36.10 tr100	36.10	73.75	74.78	75.37	76.79	0.046335	6.29	5.74	5.70	2.00
LIMONE	1.159	Q.= 36.10 tr100	36.10	72.83	73.68	74.46	76.69	0.084786	7.69	4.70	5.58	2.68
LIMONE	1.15	Q.= 36.10 tr100	36.10	72.87	73.92	74.42	75.62	0.037548	5.77	6.26	6.08	1.82
LIMONE	0.79	Q.= 36.10 tr100	36.10	72.17	73.04	73.73	75.53	0.066952	6.99	5.16	5.99	2.40
LIMONE	0.7	Q.= 36.10 tr100	36.10	72.27	73.44	73.93	74.83	0.027623	5.22	6.91	6.06	1.56
LIMONE	0.69	Q.= 36.10 tr100	36.10	71.33	72.22	72.90	74.72	0.066590	7.01	5.15	5.89	2.39
LIMONE	0.6	Q.= 36.10 tr100	36.10	71.12	72.34	72.88	73.69	0.025878	5.14	7.02	5.92	1.51
LIMONE	0.59	Q.= 36.10 tr100	36.10	70.63	71.65	72.23	73.63	0.045467	6.22	5.80	5.78	1.98
LIMONE	0.5	Q.= 36.10 tr100	36.10	70.46	71.53	72.35	73.37	0.040622	6.00	6.02	5.74	1.87



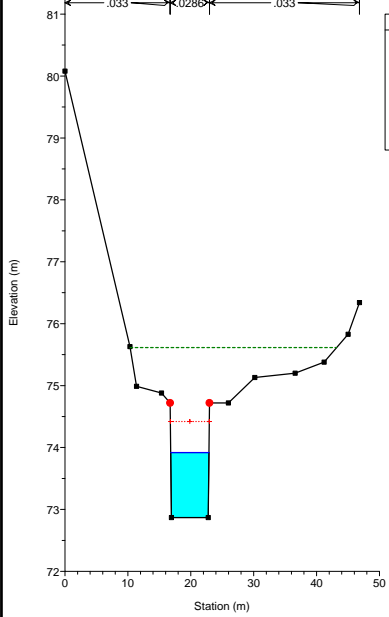




Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

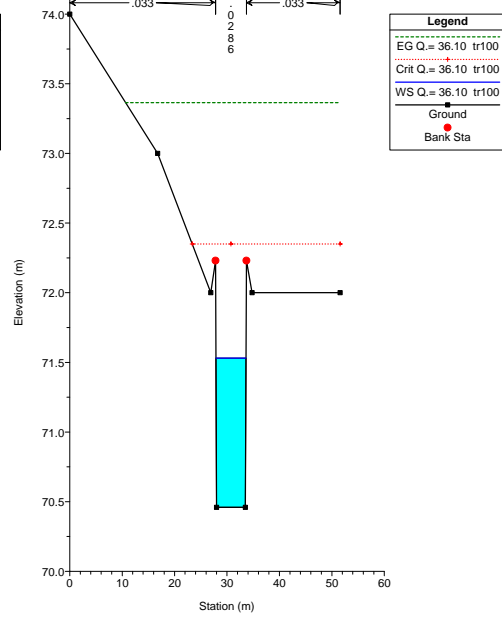
River = T. San Giovanni Reach = LIMONE RS = 1.15 Sez 1.15_38



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

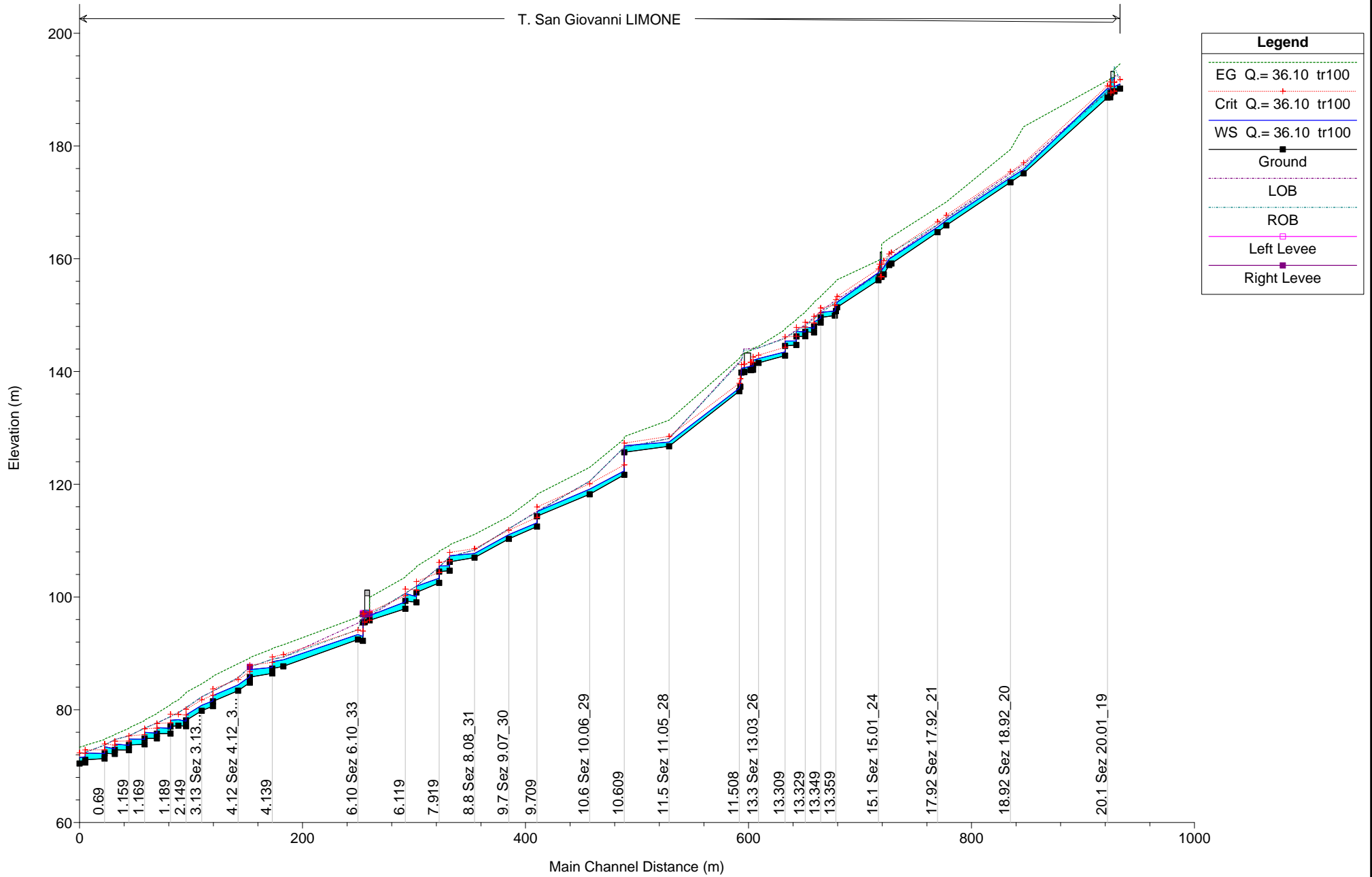
River = T. San Giovanni Reach = LIMONE RS = 0.5 Passerella Foce _sez 0.5_39



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE



HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 41.40 tr200

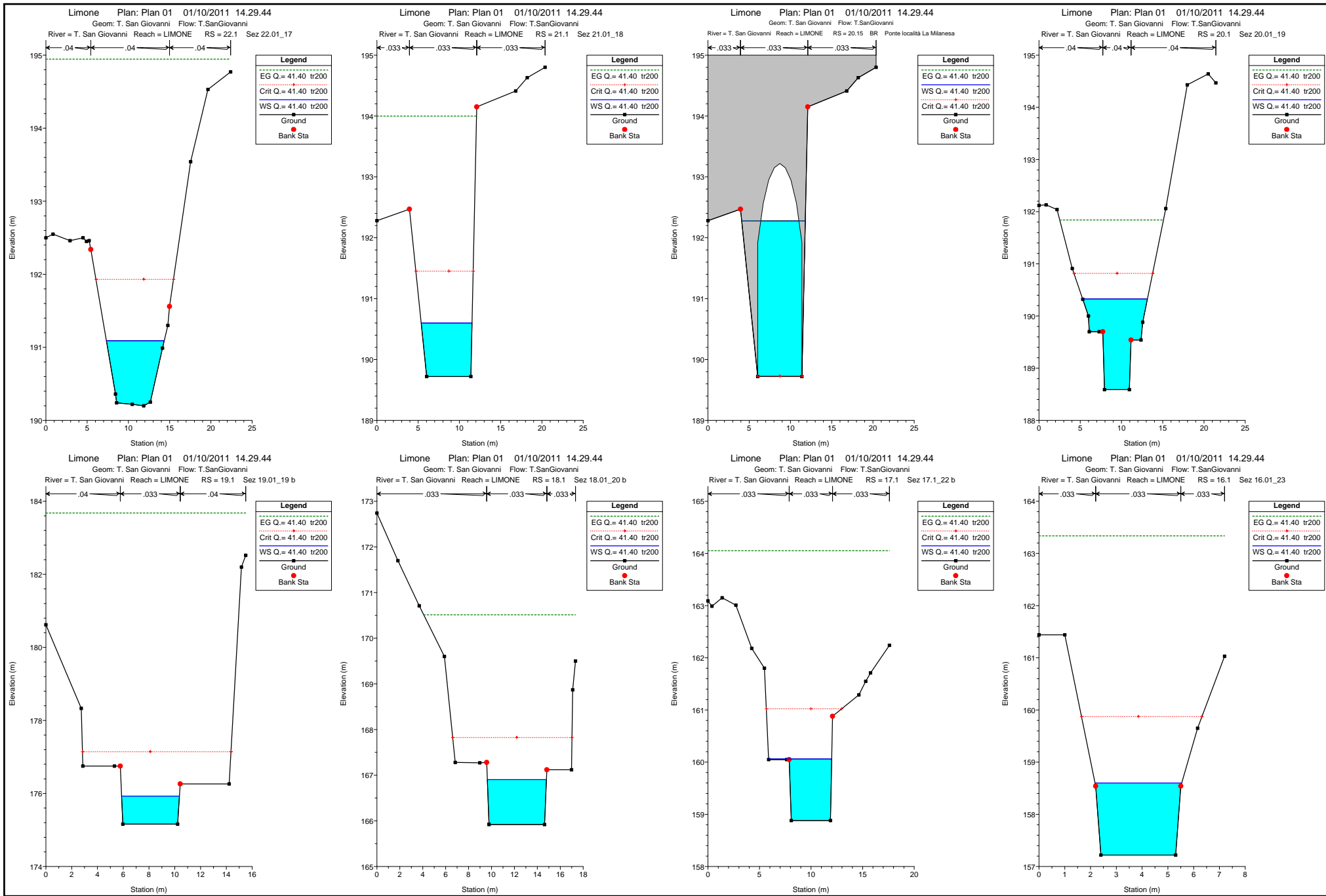
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
LIMONE	22.1	Q.= 41.40 tr200	41.40	190.20	191.09	191.93	194.94	0.220805	8.70	4.76	7.00	3.37
LIMONE	21.1	Q.= 41.40 tr200	41.40	189.72	190.60	191.45	194.00	0.119335	8.17	5.07	6.17	2.88
LIMONE	20.15		Bridge									
LIMONE	20.12	Q.= 41.40 tr200	41.40	189.41	191.55	191.55	192.21	0.014762	3.73	12.13	9.71	0.85
LIMONE	20.11	Q.= 41.40 tr200	41.40	188.64	190.19	190.82	192.09	0.064201	6.10	6.79	4.82	1.64
LIMONE	20.1	Q.= 41.40 tr200	41.40	188.59	190.33	190.82	191.84	0.046994	5.84	8.13	7.85	1.44
LIMONE	19.1	Q.= 41.40 tr200	41.40	175.16	175.93	177.14	183.68	0.343911	12.33	3.36	4.49	4.55
LIMONE	18.92	Q.= 41.40 tr200	41.40	173.58	174.47	175.52	179.88	0.204413	10.30	4.02	4.63	3.53
LIMONE	18.1	Q.= 41.40 tr200	41.40	165.92	166.90	167.83	170.51	0.119765	8.42	4.92	5.16	2.75
LIMONE	17.92	Q.= 41.40 tr200	41.40	164.70	165.69	166.68	169.52	0.127457	8.66	4.78	4.97	2.82
LIMONE	17.11	Q.= 41.40 tr200	41.40	159.15	160.32	161.29	164.30	0.123598	8.83	4.69	4.16	2.66
LIMONE	17.1	Q.= 41.40 tr200	41.40	158.88	160.06	161.02	164.05	0.123652	8.85	4.70	6.12	2.65
LIMONE	16.1	Q.= 41.40 tr200	41.40	157.22	158.60	159.87	163.34	0.143166	9.64	4.30	3.36	2.70
LIMONE	15.15	Q.= 41.40 tr200	41.40	156.81	158.05	159.19	163.02	0.158248	9.88	4.19	3.68	2.91
LIMONE	15.14		Bridge									
LIMONE	15.13	Q.= 41.40 tr200	41.40	156.81	159.19	159.19	160.08	0.012751	4.38	10.50	6.15	0.92
LIMONE	15.1	Q.= 41.40 tr200	41.40	156.19	157.65	158.31	159.92	0.055596	6.87	6.56	7.55	1.85
LIMONE	14.2	Q.= 41.40 tr200	41.40	151.39	152.37	153.40	156.59	0.143558	9.10	4.55	4.79	2.98
LIMONE	13.359	Q.= 41.40 tr200	41.40	150.72	151.65	152.96	156.39	0.170983	9.64	4.30	4.71	3.22
LIMONE	13.358	Q.= 41.40 tr200	41.40	149.92	150.80	151.94	156.14	0.205783	10.24	4.04	4.67	3.51
LIMONE	13.35	Q.= 41.40 tr200	41.40	149.59	150.58	151.37	153.75	0.098119	7.90	5.33	6.64	2.57
LIMONE	13.349	Q.= 41.40 tr200	41.40	148.66	149.56	150.58	153.65	0.147649	8.96	4.62	5.22	3.04
LIMONE	13.34	Q.= 41.40 tr200	41.40	147.98	148.86	149.97	152.74	0.140178	8.72	4.75	5.50	3.00
LIMONE	13.339	Q.= 41.40 tr200	41.40	146.94	147.73	148.77	152.63	0.199842	9.81	4.22	5.39	3.54
LIMONE	13.33	Q.= 41.40 tr200	41.40	147.05	147.99	148.83	150.98	0.098490	7.66	5.41	5.92	2.56
LIMONE	13.329	Q.= 41.40 tr200	41.40	146.25	147.10	148.00	150.89	0.141568	8.63	4.79	5.75	3.02
LIMONE	13.32	Q.= 41.40 tr200	41.40	146.22	147.19	147.92	149.69	0.077927	7.00	5.91	6.38	2.30
LIMONE	13.319	Q.= 41.40 tr200	41.40	144.72	145.50	146.42	149.54	0.161670	8.90	4.65	6.01	3.23
LIMONE	13.31	Q.= 41.40 tr200	41.40	144.54	145.46	146.30	147.95	0.081288	6.99	5.92	6.54	2.34
LIMONE	13.309	Q.= 41.40 tr200	41.40	142.82	143.54	144.45	147.78	0.183629	9.12	4.54	6.36	3.45
LIMONE	13.3	Q.= 41.40 tr200	41.40	141.53	142.36	143.02	144.79	0.065636	6.91	5.99	7.32	2.44
LIMONE	12.409	Q.= 41.40 tr200	41.40	141.20	142.05	142.71	144.46	0.063673	6.88	6.02	7.15	2.40
LIMONE	12.408	Q.= 41.40 tr200	41.40	140.30	141.02	141.81	144.37	0.105470	8.10	5.11	7.11	3.05
LIMONE	12.4	Q.= 41.40 tr200	41.40	140.30	141.05	141.82	144.18	0.094865	7.84	5.28	7.08	2.90
LIMONE	11.55	Q.= 41.40 tr200	41.40	140.25	141.01	141.77	144.08	0.092001	7.76	5.33	7.08	2.86
LIMONE	11.54		Bridge									
LIMONE	11.53	Q.= 41.40 tr200	41.40	139.93	140.73	141.45	143.47	0.077107	7.33	5.65	7.08	2.62
LIMONE	11.51	Q.= 41.40 tr200	41.40	139.80	140.64	141.34	143.27	0.070996	7.20	5.75	6.95	2.52
LIMONE	11.509	Q.= 41.40 tr200	41.40	137.30	137.91	138.85	142.93	0.191738	9.92	4.17	6.83	4.05
LIMONE	11.508	Q.= 41.40 tr200	41.40	136.50	137.08	138.06	142.66	0.225937	10.46	3.96	6.80	4.38

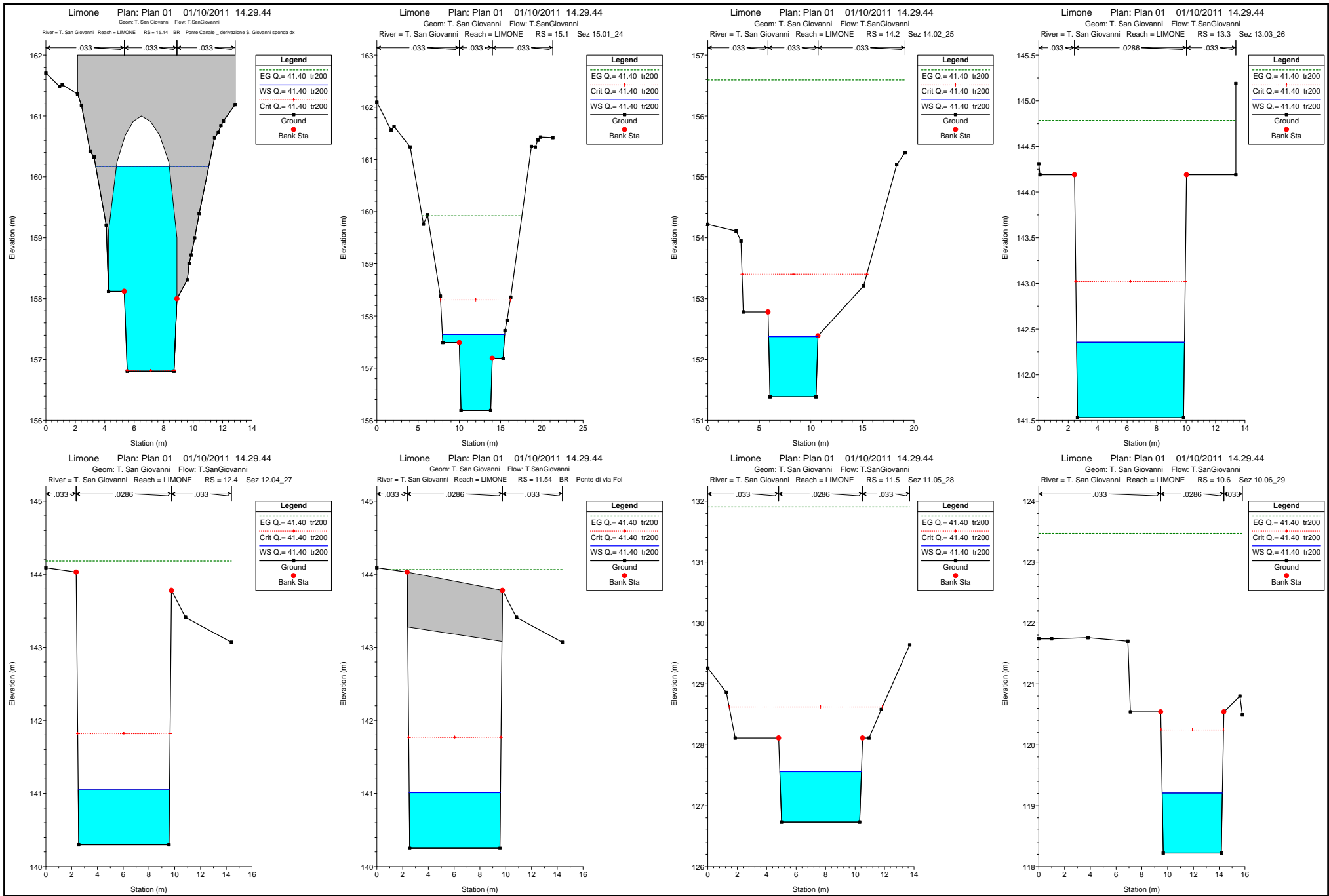
HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 41.40 tr200 (Continued)

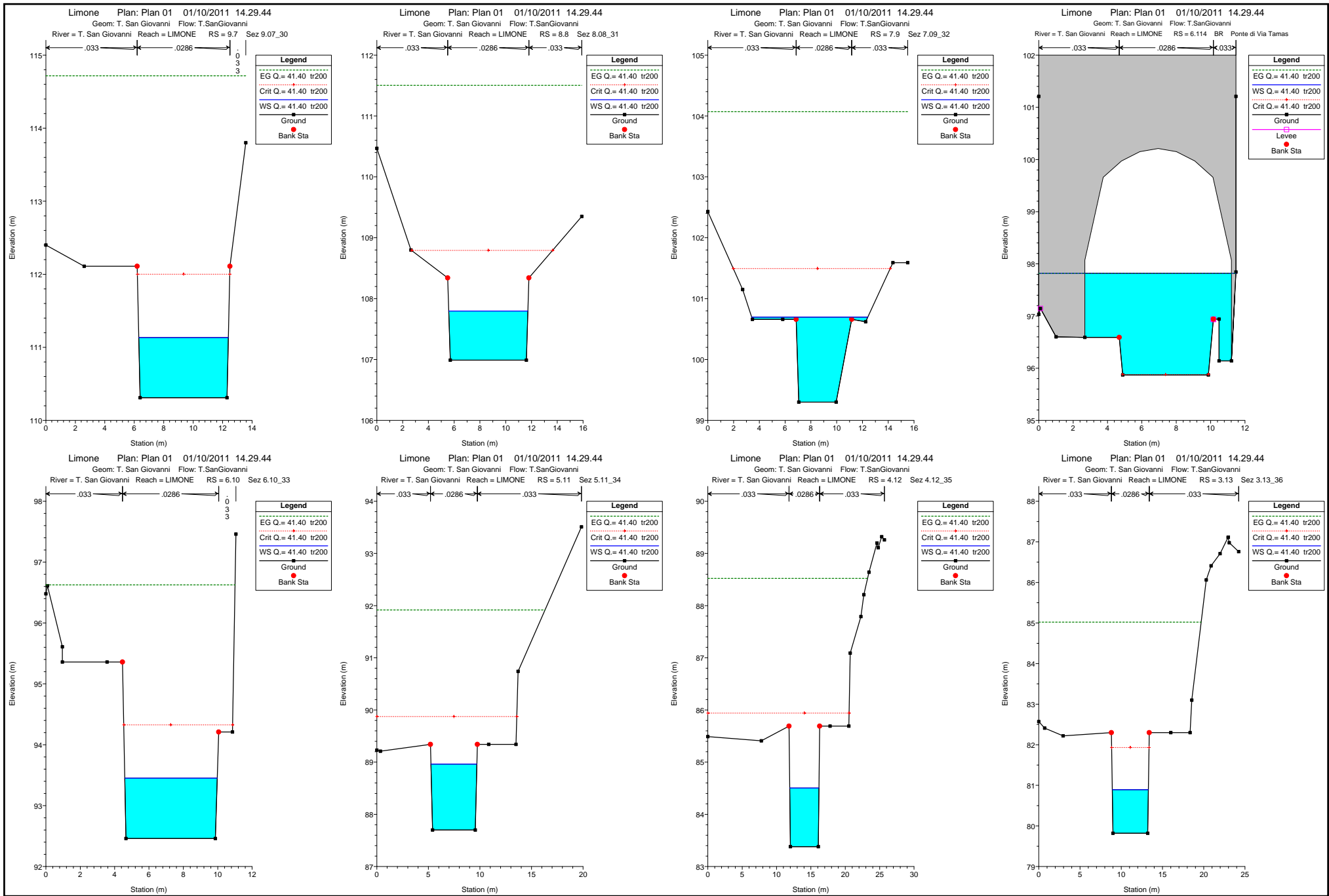
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
LIMONE	11.5	Q.= 41.40 tr200	41.40	126.73	127.56	128.62	131.91	0.125895	9.24	4.48	5.54	3.28
LIMONE	10.61	Q.= 41.40 tr200	41.40	125.67	126.89	127.43	128.75	0.034856	6.22	7.51	10.99	1.82
LIMONE	10.609	Q.= 41.40 tr200	41.40	121.67	122.46	123.61	128.35	0.187295	10.75	3.85	4.91	3.88
LIMONE	10.6	Q.= 41.40 tr200	41.40	118.22	119.21	120.24	123.47	0.110679	9.15	4.52	4.67	2.97
LIMONE	9.71	Q.= 41.40 tr200	41.40	114.33	115.23	116.07	118.63	0.085537	8.17	5.11	7.79	2.79
LIMONE	9.709	Q.= 41.40 tr200	41.40	112.49	113.24	114.29	118.45	0.167903	10.11	4.10	5.52	3.75
LIMONE	9.7	Q.= 41.40 tr200	41.40	110.31	111.13	112.00	114.72	0.101529	8.39	4.94	6.08	2.97
LIMONE	8.8	Q.= 41.40 tr200	41.40	106.99	107.80	108.79	111.50	0.106899	8.53	4.85	6.14	3.06
LIMONE	7.93	Q.= 41.40 tr200	41.40	106.23	107.38	108.01	109.63	0.043120	6.70	6.52	9.24	2.05
LIMONE	7.929	Q.= 41.40 tr200	41.40	104.68	105.63	106.59	109.47	0.098501	8.68	4.77	5.14	2.87
LIMONE	7.92	Q.= 41.40 tr200	41.40	104.50	105.56	106.30	108.47	0.061815	7.68	5.88	9.88	2.47
LIMONE	7.919	Q.= 41.40 tr200	41.40	102.50	103.44	104.53	108.27	0.130711	9.74	4.25	4.68	3.26
LIMONE	7.91	Q.= 41.40 tr200	41.40	100.82	102.00	102.77	105.85	0.085765	8.71	4.88	8.52	2.74
LIMONE	7.909	Q.= 41.40 tr200	41.40	99.06	100.16	101.42	105.68	0.141458	10.41	3.98	3.85	3.27
LIMONE	7.9	Q.= 41.40 tr200	41.40	99.30	100.70	101.49	104.07	0.069777	8.16	5.25	9.01	2.40
LIMONE	6.119	Q.= 41.40 tr200	41.40	97.91	99.24	100.45	103.94	0.108997	9.60	4.31	3.58	2.79
LIMONE	6.115	Q.= 41.40 tr200	41.40	95.87	96.76	97.46	100.33	0.096048	8.53	5.28	9.37	2.94
LIMONE	6.114		Bridge									
LIMONE	6.113	Q.= 41.40 tr200	41.40	95.55	97.19	97.19	97.76	0.008432	3.65	13.40	11.37	0.92
LIMONE	6.11	Q.= 41.40 tr200	41.40	95.49	96.97	97.12	97.73	0.012727	4.16	11.60	11.08	1.11
LIMONE	6.109	Q.= 41.40 tr200	41.40	92.22	93.12	94.12	97.38	0.117476	9.15	4.53	5.09	3.10
LIMONE	6.10	Q.= 41.40 tr200	41.40	92.46	93.45	94.33	96.63	0.077682	7.90	5.24	5.38	2.55
LIMONE	5.11	Q.= 41.40 tr200	41.40	87.70	88.96	89.87	91.92	0.062578	7.61	5.44	4.46	2.20
LIMONE	4.14	Q.= 41.40 tr200	41.40	87.29	88.64	89.45	91.24	0.052122	7.14	5.80	4.45	2.00
LIMONE	4.139	Q.= 41.40 tr200	41.40	86.44	87.62	88.58	91.15	0.080763	8.32	4.97	4.31	2.47
LIMONE	4.13	Q.= 41.40 tr200	41.40	85.80	87.23	87.99	89.61	0.045848	6.83	6.06	4.40	1.86
LIMONE	4.129	Q.= 41.40 tr200	41.40	84.80	86.00	86.96	89.49	0.079369	8.28	5.00	4.25	2.44
LIMONE	4.12	Q.= 41.40 tr200	41.40	83.38	84.50	85.94	88.52	0.096524	8.88	4.66	4.24	2.70
LIMONE	3.14	Q.= 41.40 tr200	41.40	81.49	82.62	83.76	86.37	0.088128	8.58	4.83	4.41	2.62
LIMONE	3.139	Q.= 41.40 tr200	41.40	80.63	81.66	82.76	86.28	0.119501	9.52	4.35	4.31	3.03
LIMONE	3.13	Q.= 41.40 tr200	41.40	79.82	80.89	81.93	85.02	0.101924	9.00	4.60	4.37	2.80
LIMONE	2.15	Q.= 41.40 tr200	41.40	78.10	79.18	80.26	83.53	0.108314	9.24	4.48	4.26	2.87
LIMONE	2.149	Q.= 41.40 tr200	41.40	77.09	78.07	79.25	83.42	0.146676	10.25	4.04	4.19	3.33
LIMONE	2.14	Q.= 41.40 tr200	41.40	77.18	78.34	79.36	82.18	0.090058	8.68	4.77	4.20	2.60
LIMONE	1.19	Q.= 41.40 tr200	41.40	77.03	78.22	79.48	81.43	0.071010	7.93	5.22	4.51	2.36
LIMONE	1.189	Q.= 41.40 tr200	41.40	75.77	76.79	77.87	81.30	0.116434	9.41	4.40	4.38	2.99
LIMONE	1.18	Q.= 41.40 tr200	41.40	75.76	76.92	77.77	79.79	0.063044	7.51	5.51	4.89	2.26
LIMONE	1.179	Q.= 41.40 tr200	41.40	74.92	75.94	76.90	79.70	0.093444	8.59	4.82	4.79	2.73
LIMONE	1.17	Q.= 41.40 tr200	41.40	74.91	76.07	76.82	78.56	0.052885	6.99	5.92	5.22	2.10
LIMONE	1.169	Q.= 41.40 tr200	41.40	73.87	74.85	75.78	78.45	0.091170	8.41	4.92	5.10	2.73

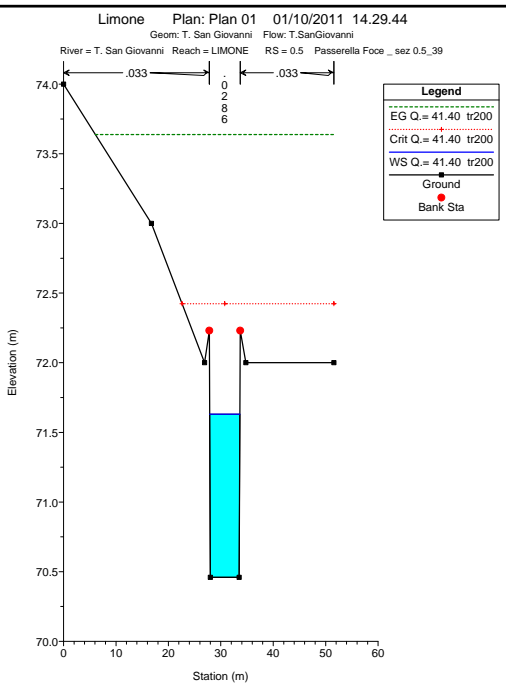
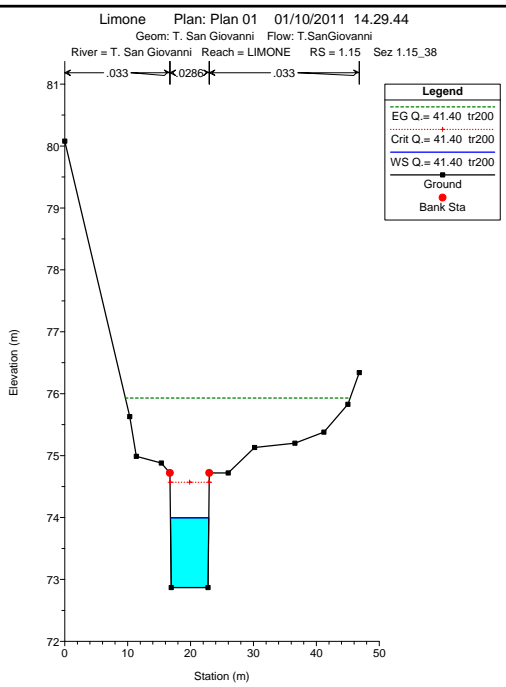
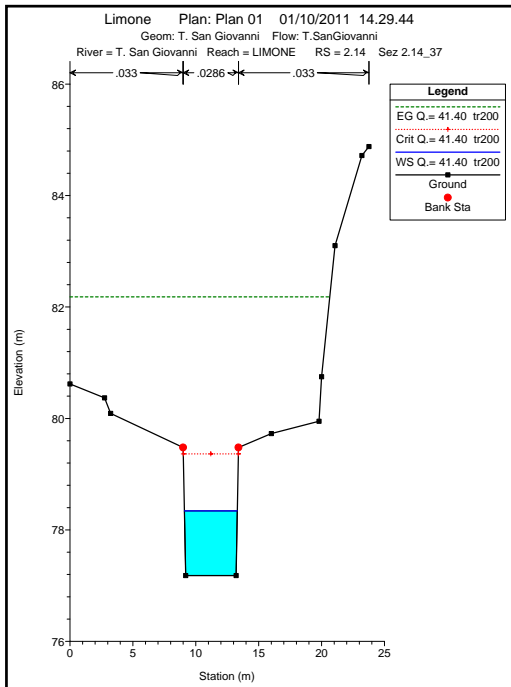
HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 41.40 tr200 (Continued)

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
LIMONE	1.16	Q.= 41.40 tr200	41.40	73.75	74.86	75.57	77.14	0.048782	6.69	6.19	5.72	2.05
LIMONE	1.159	Q.= 41.40 tr200	41.40	72.83	73.77	74.61	77.04	0.083589	8.01	5.17	5.59	2.66
LIMONE	1.15	Q.= 41.40 tr200	41.40	72.87	74.00	74.57	75.93	0.039948	6.16	6.72	6.09	1.87
LIMONE	0.79	Q.= 41.40 tr200	41.40	72.17	73.13	73.87	75.85	0.066696	7.31	5.66	6.00	2.40
LIMONE	0.7	Q.= 41.40 tr200	41.40	72.27	73.52	74.38	75.12	0.030048	5.62	7.37	6.08	1.63
LIMONE	0.69	Q.= 41.40 tr200	41.40	71.33	72.31	73.06	75.01	0.065250	7.29	5.68	5.90	2.37
LIMONE	0.6	Q.= 41.40 tr200	41.40	71.12	72.44	72.95	73.96	0.027260	5.47	7.59	8.74	1.55
LIMONE	0.59	Q.= 41.40 tr200	41.40	70.63	71.76	72.39	73.89	0.044948	6.48	6.39	5.80	1.97
LIMONE	0.5	Q.= 41.40 tr200	41.40	70.46	71.63	72.42	73.64	0.040704	6.28	6.60	5.76	1.87





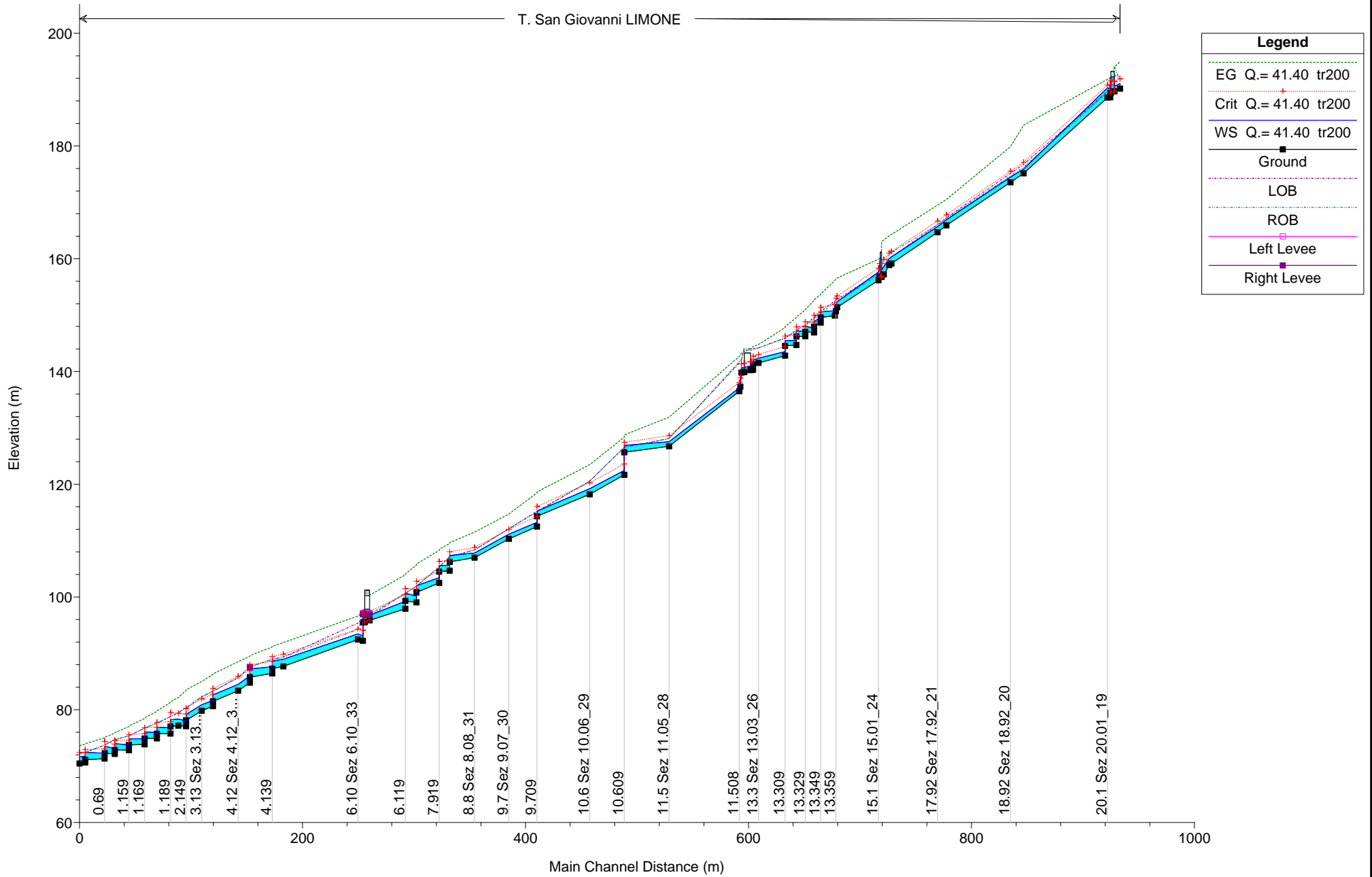




Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

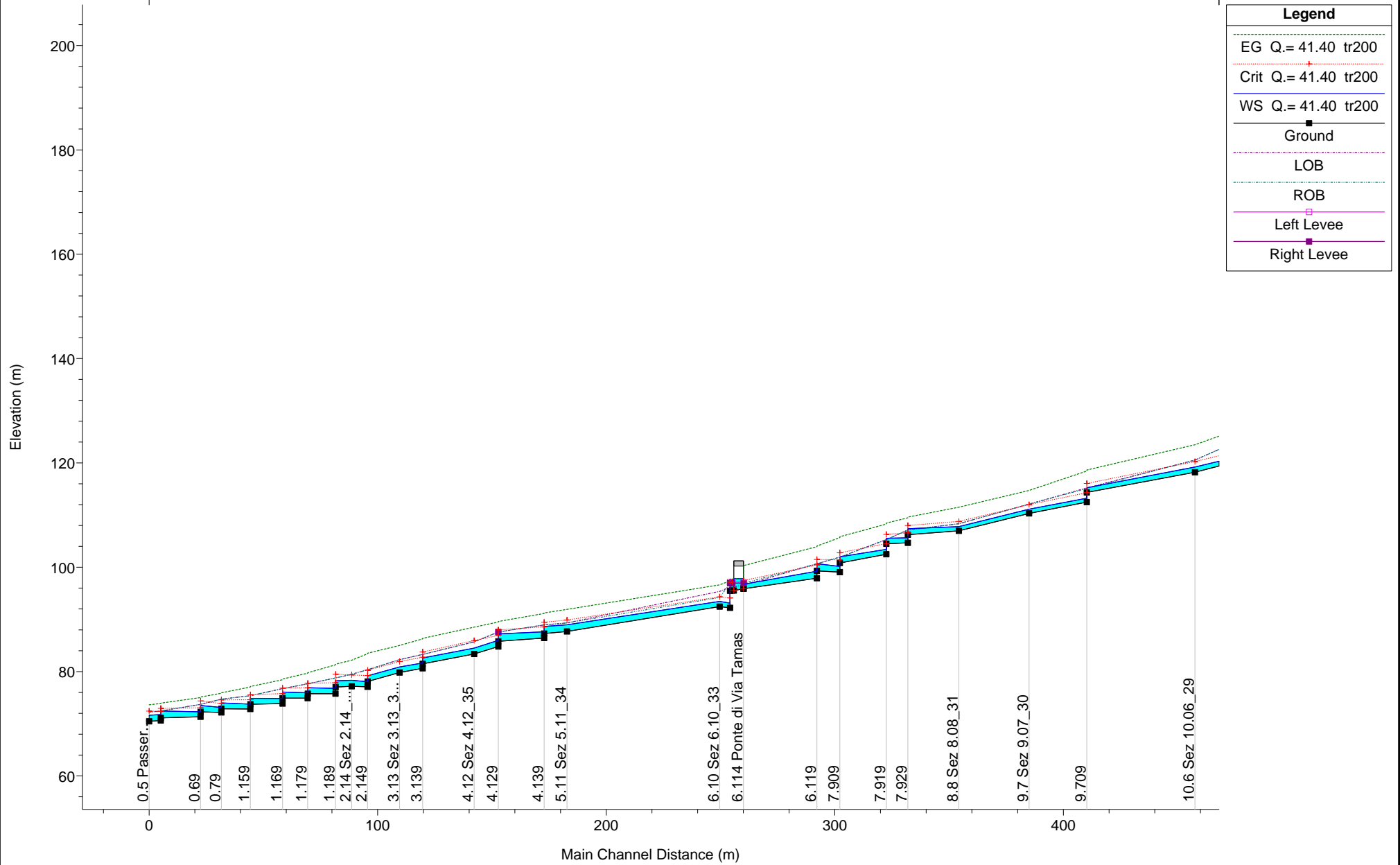
T. San Giovanni LIMONE



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

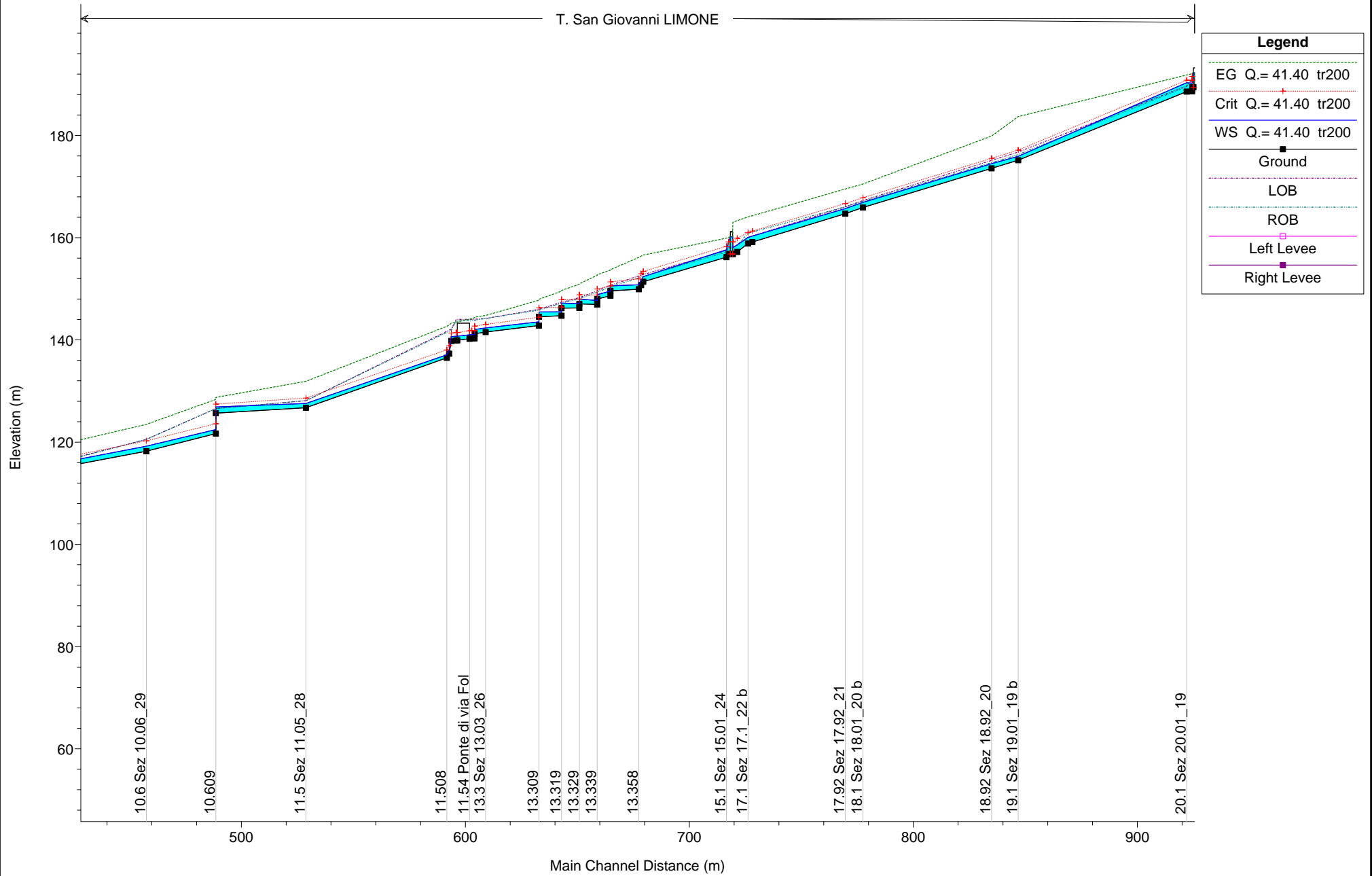
T. San Giovanni LIMONE



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE



HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 49.70 tr500

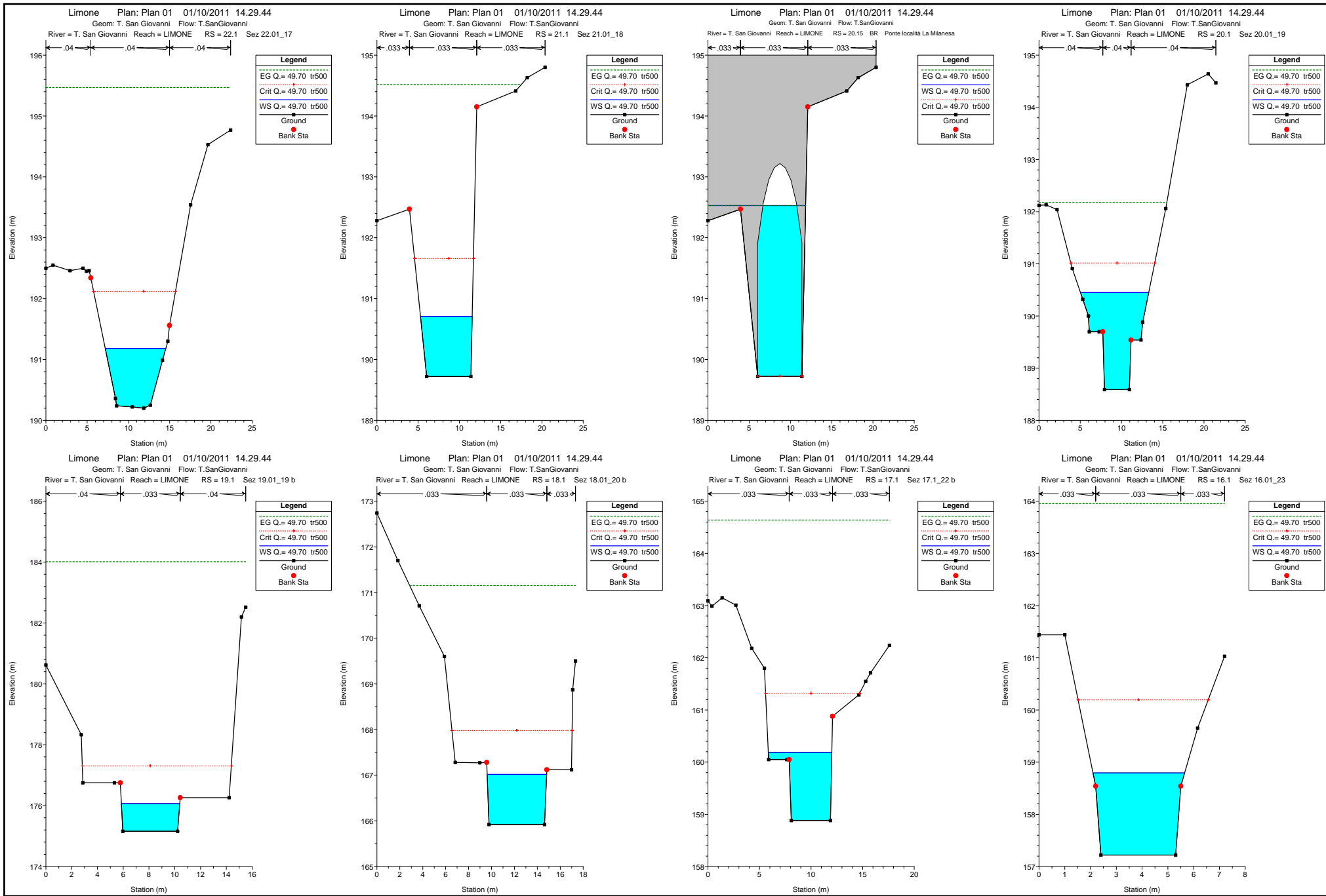
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
LIMONE	22.1	Q.= 49.70 tr500	49.70	190.20	191.18	192.12	195.47	0.220771	9.17	5.42	7.34	3.41
LIMONE	21.1	Q.= 49.70 tr500	49.70	189.72	190.71	191.66	194.52	0.118227	8.65	5.75	6.27	2.88
LIMONE	20.15		Bridge									
LIMONE	20.12	Q.= 49.70 tr500	49.70	189.41	191.75	191.75	192.46	0.014184	3.90	14.18	10.54	0.85
LIMONE	20.11	Q.= 49.70 tr500	49.70	188.64	190.49	191.12	192.34	0.054310	6.04	8.23	5.00	1.50
LIMONE	20.1	Q.= 49.70 tr500	49.70	188.59	190.45	191.02	192.18	0.049634	6.30	9.13	8.27	1.50
LIMONE	19.1	Q.= 49.70 tr500	49.70	175.16	176.07	177.30	184.01	0.299349	12.49	3.98	4.53	4.25
LIMONE	18.92	Q.= 49.70 tr500	49.70	173.58	174.60	175.75	180.55	0.198592	10.81	4.60	4.67	3.48
LIMONE	18.1	Q.= 49.70 tr500	49.70	165.92	167.02	167.98	171.15	0.123120	9.01	5.52	5.19	2.79
LIMONE	17.92	Q.= 49.70 tr500	49.70	164.70	165.82	166.83	170.14	0.128849	9.21	5.40	5.00	2.83
LIMONE	17.11	Q.= 49.70 tr500	49.70	159.15	160.45	161.58	164.89	0.124201	9.39	5.48	6.22	2.68
LIMONE	17.1	Q.= 49.70 tr500	49.70	158.88	160.19	161.32	164.64	0.124738	9.41	5.48	6.16	2.68
LIMONE	16.1	Q.= 49.70 tr500	49.70	157.22	158.79	160.19	163.95	0.129837	10.07	4.96	3.55	2.63
LIMONE	15.15	Q.= 49.70 tr500	49.70	156.81	158.21	159.45	163.66	0.149558	10.37	4.90	5.13	2.87
LIMONE	15.14		Bridge									
LIMONE	15.13	Q.= 49.70 tr500	49.70	156.81	159.45	159.45	160.42	0.012360	4.62	12.11	6.53	0.92
LIMONE	15.1	Q.= 49.70 tr500	49.70	156.19	157.78	158.51	160.25	0.054537	7.24	7.60	7.71	1.87
LIMONE	14.2	Q.= 49.70 tr500	49.70	151.39	152.52	153.55	157.05	0.131649	9.44	5.31	5.53	2.88
LIMONE	13.359	Q.= 49.70 tr500	49.70	150.72	151.80	153.19	156.86	0.158948	9.96	4.99	4.74	3.10
LIMONE	13.358	Q.= 49.70 tr500	49.70	149.92	150.94	152.19	156.62	0.189547	10.56	4.71	4.70	3.37
LIMONE	13.35	Q.= 49.70 tr500	49.70	149.59	150.69	151.51	154.30	0.100350	8.48	6.06	9.38	2.62
LIMONE	13.349	Q.= 49.70 tr500	49.70	148.66	149.69	151.02	154.20	0.143232	9.42	5.28	5.25	3.00
LIMONE	13.34	Q.= 49.70 tr500	49.70	147.98	148.98	150.15	153.32	0.138520	9.23	5.39	5.54	2.99
LIMONE	13.339	Q.= 49.70 tr500	49.70	146.94	147.85	149.00	153.21	0.190347	10.26	4.84	5.41	3.46
LIMONE	13.33	Q.= 49.70 tr500	49.70	147.05	148.10	148.97	151.56	0.101790	8.25	6.03	6.32	2.62
LIMONE	13.329	Q.= 49.70 tr500	49.70	146.25	147.21	148.38	151.48	0.140525	9.16	5.43	5.77	3.02
LIMONE	13.32	Q.= 49.70 tr500	49.70	146.22	147.29	148.16	150.25	0.082555	7.62	6.56	7.14	2.39
LIMONE	13.319	Q.= 49.70 tr500	49.70	144.72	145.61	146.64	150.09	0.156892	9.38	5.30	6.02	3.19
LIMONE	13.31	Q.= 49.70 tr500	49.70	144.54	145.56	146.52	148.48	0.085826	7.57	6.57	6.57	2.42
LIMONE	13.309	Q.= 49.70 tr500	49.70	142.82	143.64	144.66	148.31	0.174922	9.57	5.19	6.38	3.38
LIMONE	13.3	Q.= 49.70 tr500	49.70	141.53	142.45	143.21	145.29	0.068631	7.47	6.65	7.34	2.50
LIMONE	12.409	Q.= 49.70 tr500	49.70	141.20	142.14	142.91	144.94	0.065804	7.41	6.70	7.17	2.45
LIMONE	12.408	Q.= 49.70 tr500	49.70	140.30	141.12	142.01	144.85	0.102174	8.56	5.81	7.12	3.02
LIMONE	12.4	Q.= 49.70 tr500	49.70	140.30	141.15	142.01	144.67	0.093145	8.31	5.98	7.09	2.89
LIMONE	11.55	Q.= 49.70 tr500	49.70	140.25	141.11	141.96	144.57	0.090774	8.24	6.03	7.09	2.85
LIMONE	11.54		Bridge									
LIMONE	11.53	Q.= 49.70 tr500	49.70	139.93	140.83	141.64	143.96	0.077886	7.84	6.34	7.09	2.65
LIMONE	11.51	Q.= 49.70 tr500	49.70	139.80	140.74	141.64	143.76	0.072119	7.70	6.45	6.97	2.56
LIMONE	11.509	Q.= 49.70 tr500	49.70	137.30	138.01	139.05	143.41	0.175823	10.30	4.82	6.84	3.91
LIMONE	11.508	Q.= 49.70 tr500	49.70	136.50	137.18	138.26	143.17	0.205614	10.84	4.58	6.80	4.22

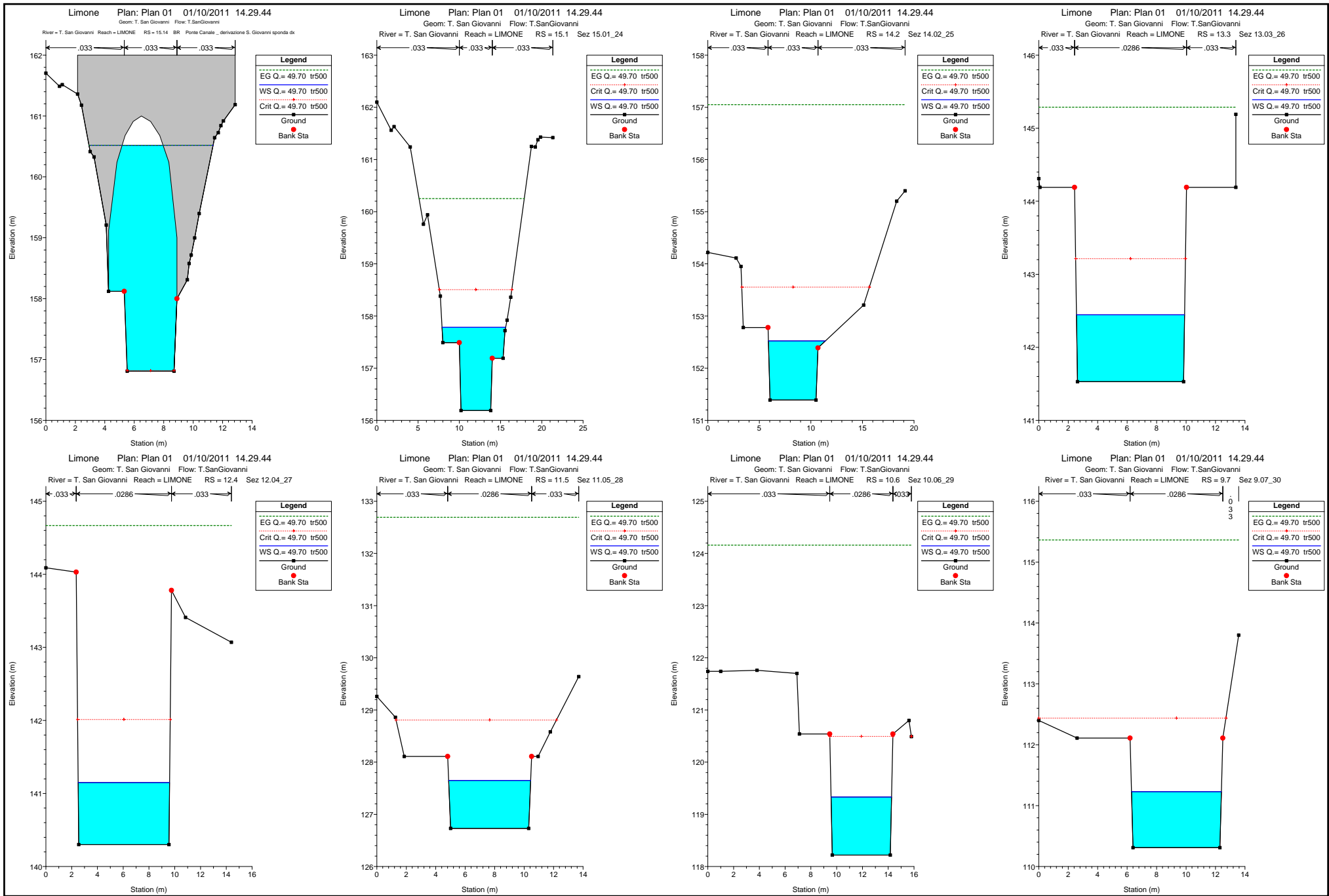
HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 49.70 tr500 (Continued)

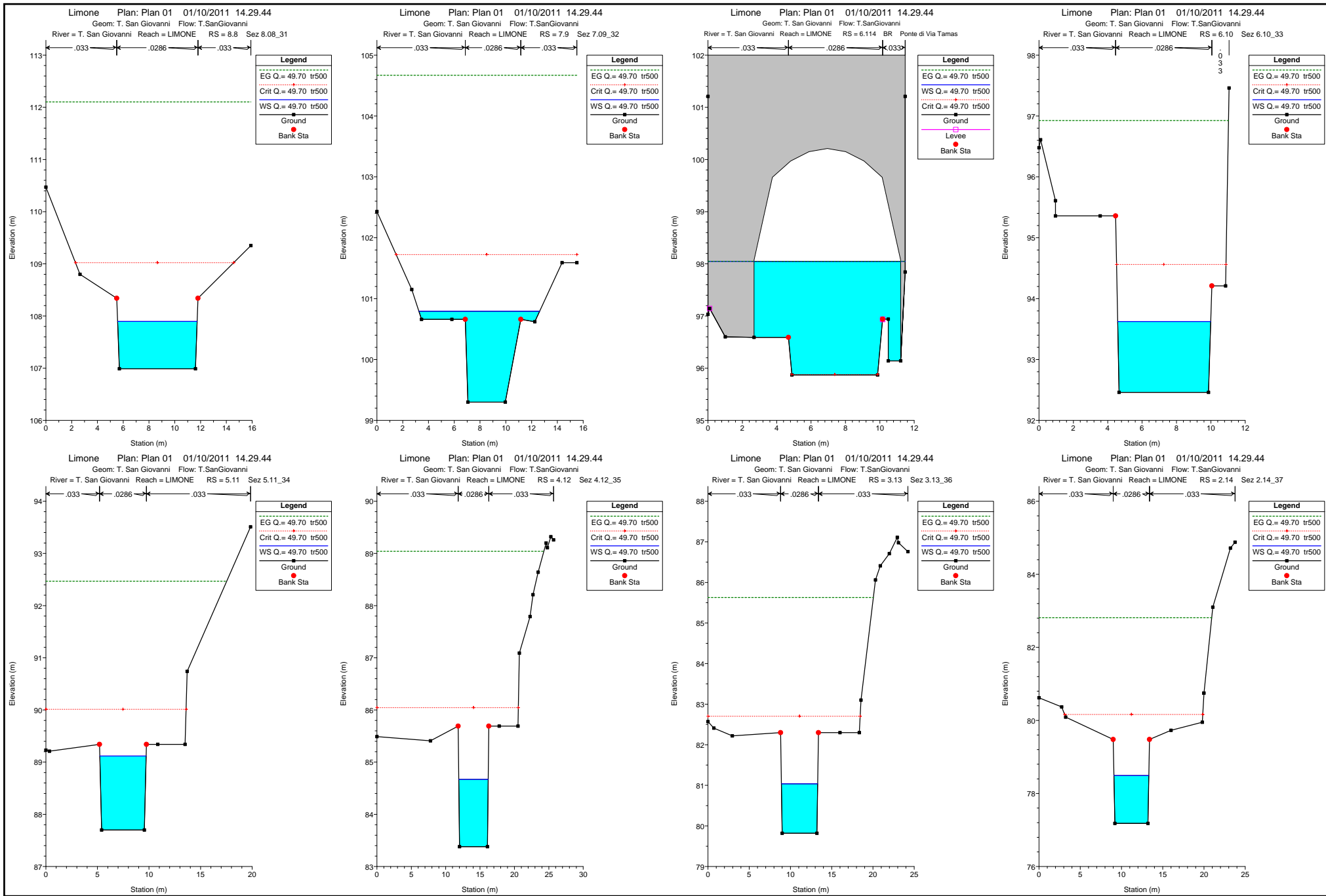
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
LIMONE	11.5	Q.= 49.70 tr500	49.70	126.73	127.65	128.81	132.69	0.130840	9.95	4.99	5.57	3.35
LIMONE	10.61	Q.= 49.70 tr500	49.70	125.67	126.96	127.66	129.20	0.039647	6.89	8.27	11.21	1.96
LIMONE	10.609	Q.= 49.70 tr500	49.70	121.67	122.59	123.85	128.80	0.169188	11.04	4.50	4.92	3.69
LIMONE	10.6	Q.= 49.70 tr500	49.70	118.22	119.33	120.49	124.16	0.112064	9.74	5.11	4.69	2.98
LIMONE	9.71	Q.= 49.70 tr500	49.70	114.33	115.32	116.21	119.24	0.086885	8.80	5.83	7.93	2.86
LIMONE	9.709	Q.= 49.70 tr500	49.70	112.49	113.35	114.52	119.05	0.159753	10.58	4.70	5.53	3.67
LIMONE	9.7	Q.= 49.70 tr500	49.70	110.31	111.23	112.44	115.36	0.104429	9.01	5.52	6.10	3.02
LIMONE	8.8	Q.= 49.70 tr500	49.70	106.99	107.90	109.02	112.10	0.107198	9.09	5.47	6.17	3.08
LIMONE	7.93	Q.= 49.70 tr500	49.70	106.23	107.46	108.22	110.12	0.046855	7.34	7.34	10.18	2.17
LIMONE	7.929	Q.= 49.70 tr500	49.70	104.68	105.77	106.83	109.97	0.094735	9.08	5.47	5.18	2.82
LIMONE	7.92	Q.= 49.70 tr500	49.70	104.50	105.64	106.45	108.98	0.065301	8.31	6.68	10.25	2.57
LIMONE	7.919	Q.= 49.70 tr500	49.70	102.50	103.58	104.79	108.79	0.123218	10.11	4.92	4.73	3.16
LIMONE	7.91	Q.= 49.70 tr500	49.70	100.82	102.09	103.04	106.43	0.087529	9.34	5.77	9.48	2.81
LIMONE	7.909	Q.= 49.70 tr500	49.70	99.06	100.32	101.70	106.27	0.135518	10.80	4.60	3.92	3.18
LIMONE	7.9	Q.= 49.70 tr500	49.70	99.30	100.79	101.72	104.67	0.073818	8.84	6.13	9.37	2.50
LIMONE	6.119	Q.= 49.70 tr500	49.70	97.91	99.42	101.09	104.54	0.107549	10.03	4.96	3.67	2.75
LIMONE	6.115	Q.= 49.70 tr500	49.70	95.87	96.83	97.61	100.88	0.101115	9.18	5.98	9.52	3.04
LIMONE	6.114		Bridge									
LIMONE	6.113	Q.= 49.70 tr500	49.70	95.55	97.33	97.33	97.98	0.008561	3.90	15.07	11.40	0.95
LIMONE	6.11	Q.= 49.70 tr500	49.70	95.49	97.12	97.28	97.96	0.012394	4.39	13.25	11.24	1.11
LIMONE	6.109	Q.= 49.70 tr500	49.70	92.22	93.29	94.36	97.61	0.100430	9.21	5.40	5.11	2.86
LIMONE	6.10	Q.= 49.70 tr500	49.70	92.46	93.62	94.56	96.93	0.069229	8.05	6.17	5.41	2.41
LIMONE	5.11	Q.= 49.70 tr500	49.70	87.70	89.12	90.01	92.47	0.064286	8.11	6.13	4.50	2.22
LIMONE	4.14	Q.= 49.70 tr500	49.70	87.29	88.80	89.58	91.76	0.053886	7.62	6.53	4.94	2.02
LIMONE	4.139	Q.= 49.70 tr500	49.70	86.44	87.79	89.30	91.67	0.079353	8.73	5.69	4.34	2.43
LIMONE	4.13	Q.= 49.70 tr500	49.70	85.80	87.40	88.12	90.10	0.047440	7.28	6.83	4.44	1.87
LIMONE	4.129	Q.= 49.70 tr500	49.70	84.80	86.18	87.24	89.99	0.077286	8.66	5.74	4.27	2.38
LIMONE	4.12	Q.= 49.70 tr500	49.70	83.38	84.67	86.04	89.04	0.093232	9.26	5.37	4.27	2.64
LIMONE	3.14	Q.= 49.70 tr500	49.70	81.49	82.77	83.88	86.94	0.087912	9.05	5.49	4.44	2.60
LIMONE	3.139	Q.= 49.70 tr500	49.70	80.63	81.81	83.02	86.86	0.115596	9.96	4.99	4.33	2.96
LIMONE	3.13	Q.= 49.70 tr500	49.70	79.82	81.04	82.70	85.63	0.101295	9.49	5.24	4.40	2.78
LIMONE	2.15	Q.= 49.70 tr500	49.70	78.10	79.32	80.98	84.15	0.107264	9.73	5.11	4.28	2.84
LIMONE	2.149	Q.= 49.70 tr500	49.70	77.09	78.21	79.53	84.04	0.141041	10.70	4.65	4.20	3.25
LIMONE	2.14	Q.= 49.70 tr500	49.70	77.18	78.49	80.16	82.81	0.091340	9.21	5.40	4.23	2.60
LIMONE	1.19	Q.= 49.70 tr500	49.70	77.03	78.36	79.64	82.04	0.073949	8.50	5.85	4.54	2.39
LIMONE	1.189	Q.= 49.70 tr500	49.70	75.77	76.93	78.15	81.91	0.114218	9.88	5.03	4.40	2.95
LIMONE	1.18	Q.= 49.70 tr500	49.70	75.76	77.05	78.42	80.38	0.066366	8.08	6.15	4.92	2.31
LIMONE	1.179	Q.= 49.70 tr500	49.70	74.92	76.08	77.16	80.29	0.093298	9.09	5.47	4.81	2.72
LIMONE	1.17	Q.= 49.70 tr500	49.70	74.91	76.20	77.28	79.11	0.056454	7.57	6.57	5.25	2.16
LIMONE	1.169	Q.= 49.70 tr500	49.70	73.87	74.98	76.02	79.00	0.090283	8.89	5.59	5.12	2.71

HEC-RAS Plan: Plan 01 River: T. San Giovanni Reach: LIMONE Profile: Q.= 49.70 tr500 (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
LIMONE	1.16	Q.= 49.70 tr500	49.70	73.75	74.97	75.87	77.65	0.052048	7.25	6.86	5.75	2.12
LIMONE	1.159	Q.= 49.70 tr500	49.70	72.83	73.89	74.85	77.55	0.082748	8.48	5.86	5.61	2.65
LIMONE	1.15	Q.= 49.70 tr500	49.70	72.87	74.11	75.10	76.41	0.043291	6.72	7.40	6.12	1.95
LIMONE	0.79	Q.= 49.70 tr500	49.70	72.17	73.25	74.09	76.33	0.066815	7.78	6.39	6.02	2.41
LIMONE	0.7	Q.= 49.70 tr500	49.70	72.27	73.63	74.51	75.57	0.033366	6.17	8.06	6.11	1.72
LIMONE	0.69	Q.= 49.70 tr500	49.70	71.33	72.44	73.28	75.46	0.064245	7.70	6.45	5.93	2.36
LIMONE	0.6	Q.= 49.70 tr500	49.70	71.12	72.53	73.04	74.36	0.030282	6.04	8.97	22.18	1.65
LIMONE	0.59	Q.= 49.70 tr500	49.70	70.63	71.90	72.92	74.31	0.044980	6.87	7.23	5.83	1.97
LIMONE	0.5	Q.= 49.70 tr500	49.70	70.46	71.78	72.52	74.05	0.041093	6.67	7.45	5.80	1.88



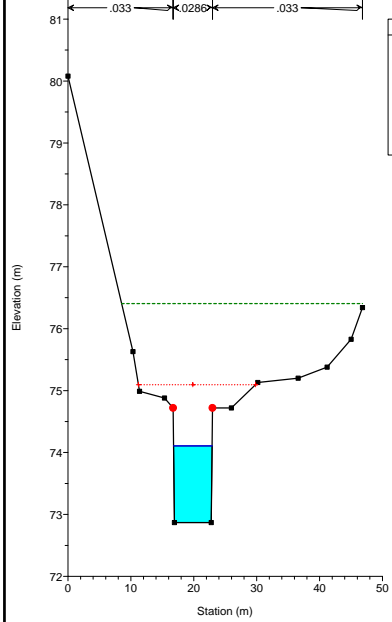




Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

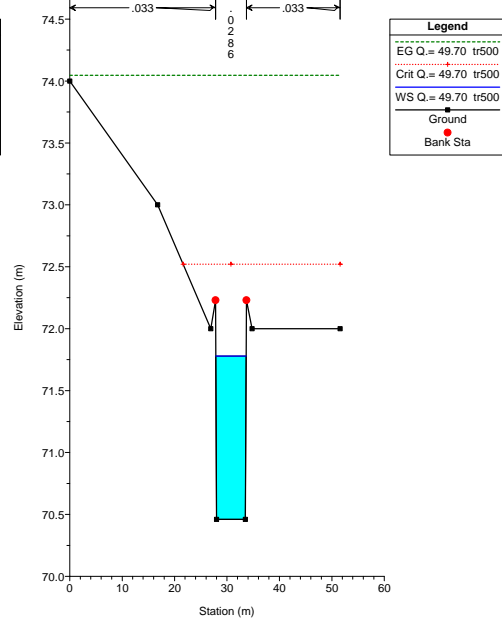
River = T. San Giovanni Reach = LIMONE RS = 1.15 Sez 1.15_38



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

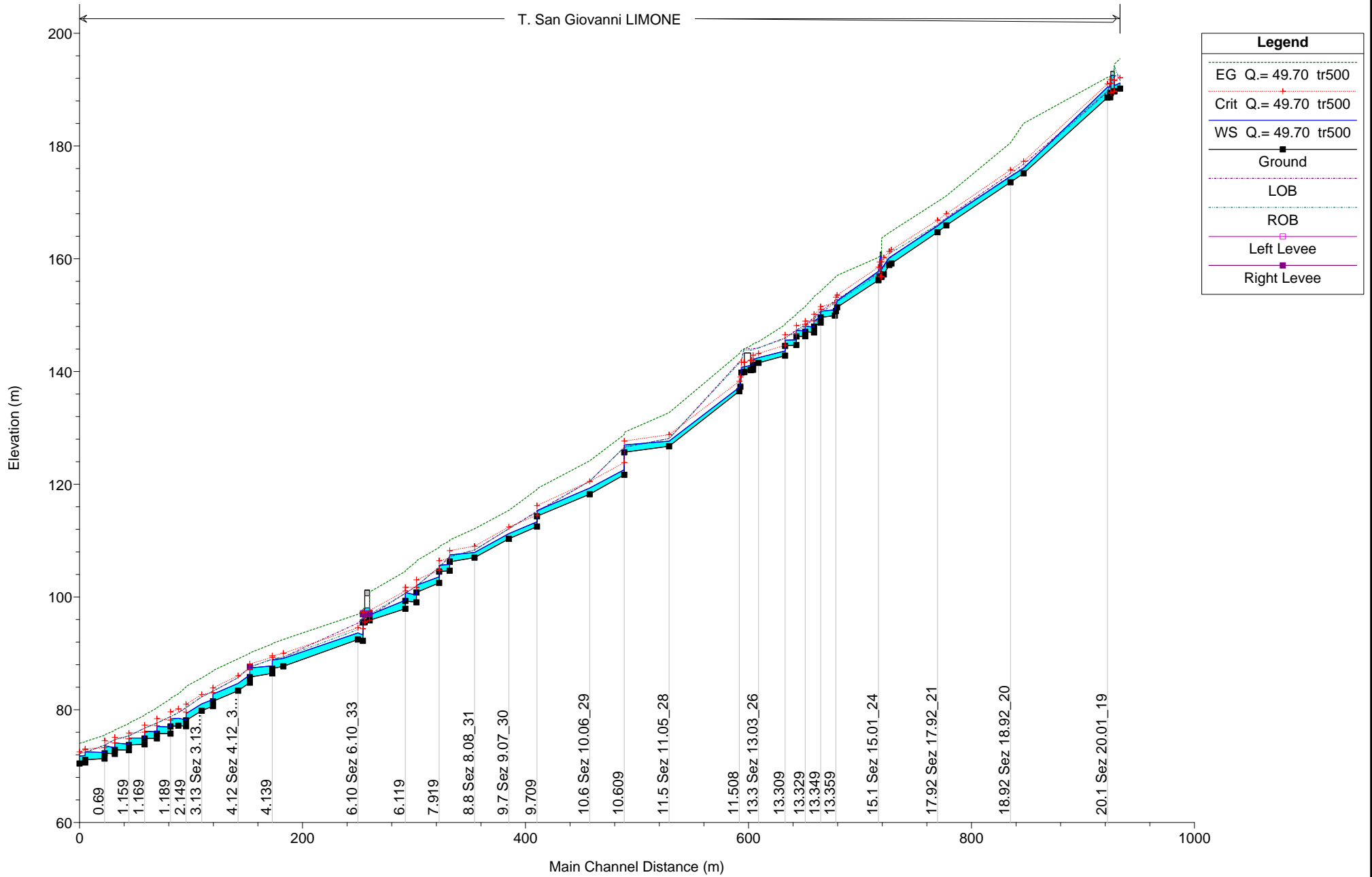
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Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

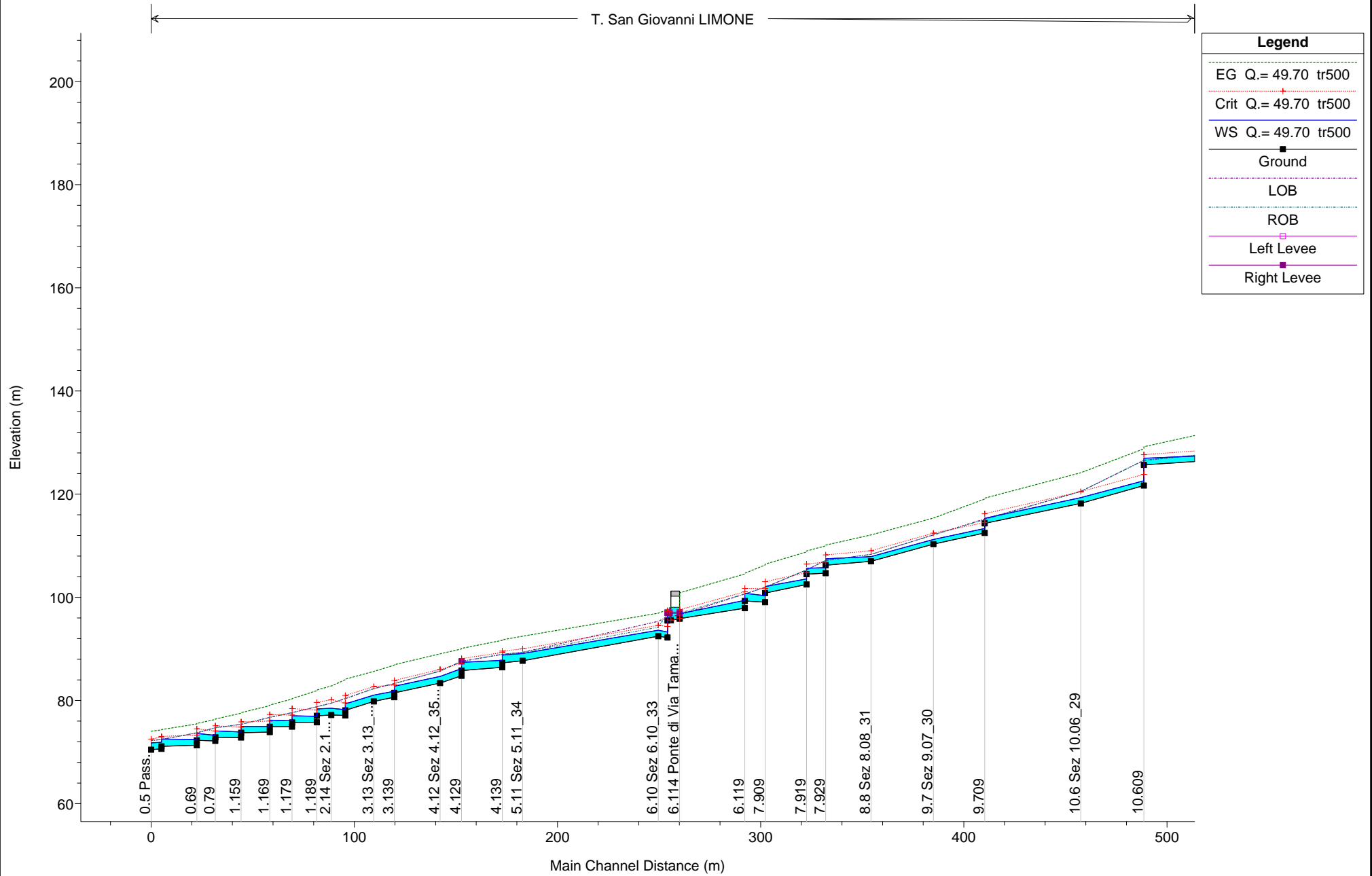
T. San Giovanni LIMONE



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE



Limone Plan: Plan 01 01/10/2011 14.29.44

Geom: T. San Giovanni Flow: T.SanGiovanni

T. San Giovanni LIMONE

