

Wohnrade Civil Engineers, Inc.

February 10, 2023

Mr. Matt Phillips
City Engineer
City of Steamboat Springs
Engineering Division
137 10th Street
Steamboat Springs, Colorado 80487

Subject: Final Summary of Findings – Revision 2
Hampton Inn & Holiday Inn Express
Walton Creek HEC-RAS Split Flow Analysis
Steamboat Springs, Colorado

Dear Mr. Phillips:

Wohnrade Civil Engineers, Inc. (WCE) has completed a final HEC-RAS analysis that reflects Existing and Proposed Project conditions along Walton Creek as it relates to the subject land development project and its impact on the Walton Creek base flood elevations. The modeling also includes a preliminary analysis that reflects possible future off-site improvements to alleviate flooding along the east side of Highway 40.

This revised final hydraulic analysis is intended to model a split flow along Walton Creek, the location of which is roughly 0.28 miles south of the subject site. The model also includes a preliminary analysis related to a proposed inline structure (overflow weir) located at the southwest corner of the Homewood Suites property. The future inline weir is intended to limit the 100-yr peak discharge along the east side of Highway 40 and alleviate current downstream flooding issues. The future offsite improvements model is referred to as WC 100 OFF and represents a conceptual analysis. The final modeling of this future improvement is beyond the scope of this analysis and would be completed by others.

The WCE HEC-RAS analysis includes the reach along Walton Creek between the bridge crossing at E. U.S. Highway 40 at the downstream end, and the Duplicate Effective HEC-RAS Cross-Section 11692 at the upstream end, for a total length of approximately 1.94 miles. The subject project is located between Cross-Sections 4178.71 and 3742 at the upstream and downstream locations respectively. Both the Existing Conditions and Proposed Project models include a future bridge crossing at Stone Lane, which was originally designed by Owen Consulting in May 2015. See attached plan and profile sheet prepared by Owen Consulting in Appendix F.

HEC-RAS models have been prepared for Existing Conditions, Proposed Project conditions, and Future Offsite Improvements conditions using the improved topographic information. All hydraulic modeling has been performed using HEC-RAS analysis engine 6.2.0 and is referenced to the NGVD

29 vertical datum. A full and complete floodway analysis has not been performed and is beyond the scope of this project.

An Offsite Improvements model (WC 100 OFF) reflecting potential off-site improvements has also been developed, which includes: a new 48" diameter culvert under Stone Lane; a new 72" diameter culvert at Ingles Lane; a proposed in-line weir located in the east borrow ditch of State Highway 40 at the southwest corner of the Homewood Suites site, and the raising of the existing east-west berm along the south property line of the Homewood Suites site.

The peak discharge in the Existing Conditions, Proposed Project, and Offsite Improvements models varies from 1,883 cfs at the upstream end of the model to 1,984 cfs at the downstream end of the model adjacent to Highway 40.

A Split Flow analysis was performed due to conditions roughly 0.28-miles upstream (south) of the project site. There are historic storm events, as well as topographic evidence to suggest that the flood flow departs the Walton Creek main channel and meanders to the northwest in the left overbank towards E. U.S. Highway 40. Flow to the northwest is facilitated by a myriad of braided wetlands channels. Once this split flow occurs (at river Station 6335) it is difficult for flows to return to the main channel which is located roughly 750-feet to the east. The split flow channel along the east side of Highway 40 is 1.17-feet higher than the thalweg of the Walton Creek main channel at Cross-Section 4571.82, which is located along the south property line of the Homewood Suites site.

Flood flows are conveyed from south to north in the east roadside ditch along Highway 40 (split flow channel) beginning at the southwest corner of the Homewood Suites property and ending at the upstream side (east side) of the bridge crossing at Highway 40 and Walton Creek.

A 3,430-foot-long lateral weir was incorporated into the HEC-RAS model beginning at the upstream main channel Cross-Section 5893 (to the south), and ending at the downstream main channel Cross-Section 1789, which is located roughly 170' upstream of the Highway 40 bridge structure.

An inline structure was also incorporated into the Offsite Improvements model and is located just north of split flow Cross-Section 998.7 at the southwest corner of the Homewood Suites property. This structure is intended to limit the flow along the Highway 40 roadside ditch to a maximum peak discharge of 359 cfs. This maximum discharge is based on the capacity of the existing downstream culvert at the Holiday Inn drive entrance off Highway 40 (Cross-Section 996.45) and is based on a HW/D ratio of 1.5 for the 100-year event. See attached HY-8 output located in Appendix E.

Project Reference Documents

- 1) Homewood Suites Stone Lane Plan and Profile (.dwg format), received on May 23, 2015, from Owen Consulting Group, Inc.
- 2) Hampton Inn & Holiday Inn Express Final Grading Plan (.dwg format), received on February 8, 2022, from Four Points Surveying and Engineering, Inc.

- 3) HEC-RAS regulatory model for Walton Creek, received on June 19, 2015, from Michael Baker International.
- 4) Aerial topographic mapping and supplemental ground survey (.dwg format) received on February 7, 2022, from Four Points Surveying and Engineering.

HEC-RAS Effective Model

The Effective HEC-RAS project file entitled EYAMPA.prj was used as a basis for the HEC-RAS analysis, which was obtained from Michael Baker International on June 19, 2015. The HEC-RAS Plan entitled EYAMPA.p05 includes the 100-yr floodway run and was the only storm frequency analyzed.

FEMA's National Flood Hazard Layer (NFHL) Viewer was referenced on January 12, 2022, to verify that the effective FIRM mapping had not changed since obtaining the HEC-RAS model from Michael Baker in 2015. The date of the effective FIRM is February 4, 2005, therefore the regulatory model obtained in 2015 could still be used as a basis for the Proposed Project hydraulic analysis. See Exhibit 1.

HEC-RAS Duplicate Effective Model

The Effective HEC-RAS project file entitled EYAMPA.prj was used as a basis for the Duplicate Effective model. The HEC-RAS Plan entitled WC 100-yr DE.p05 includes the 100-yr floodway run and was the only storm frequency analyzed. The river cross-sections and peak discharges in the Duplicate Effective model remained unchanged from the Effective model.

Output from the Duplicate Effective model can be found in Appendix A of this report.

HEC-RAS Existing Conditions Model

An Existing Conditions HEC-RAS model has been prepared as part of this final hydraulic analysis and includes improved topographic information along the study reach. The Duplicate Effective model has been used as a basis for the Existing Conditions model and improved topographic information has been applied to Cross-Sections 1578 through 7176.41.

The Existing Conditions model includes: a future bridge crossing at Stone Lane; a lateral weir defined by the existing topography beginning at the Highway 40 bridge crossing and ending at the upstream split flow junction, and a new split flow channel that commences at a junction roughly 0.28 miles upstream of the subject site.

Results from the Existing Conditions model show that, of the total peak discharge of 1,883.00 cfs (at SECNO 6375), roughly 59.6% (1122.40 cfs) of the flood flow remains in the Walton Creek main channel and overbanks, and the remaining 40.4% (760.60 cfs) is conveyed in the east roadside ditch along Highway 40, as measured at Cross Sections 4571.82 and 998.7. These ratios vary as the model moves downstream.

A lateral weir was defined from downstream Cross-Section 1789 to upstream Cross Section 5892, for a total length of approximately 3,430 feet. The weir shows the transfer of flow between the main channel and the split flow channel along the length of the study reach, and documents how the peak discharges change from one section to the next. See Standard Table 1 in Appendix B.

The peak discharge increases to 1001.26 cfs at the upstream end of the existing 4-foot diameter CMP culvert at Stone Lane and then gradually decreases as the flow moves further downstream. The Existing Conditions model shows an overtopping of all culverts along the east side of Highway 40 within the study reach. See Existing Conditions Profile Plot in Appendix B.

Results from the Existing Conditions model also reveal that floodwater overtops the existing east-west berm along the south side of the Homewood Suites property. Particularly in the southwest corner of the site, adjacent to the split flow channel along the east side of Highway 40. This allows floodwater to enter the property from the split flow channel.

Output from the Existing Conditions model can be found in Appendix B of this report.

HEC-RAS Proposed Project Model

The Existing Conditions HEC-RAS model was used as a basis for the Proposed Project model, which is entitled WC 100 PP. The Proposed Project model includes all the elements described in the Existing Conditions model, plus the placement of fill on the proposed Hampton Inn & Holiday Inn Express site.

Results from the Proposed Project model show that, of the total peak discharge of 1,883.00 cfs (at SECNO 6375), 60.0% (1129.55 cfs) of the flood flow remains in the Walton Creek main channel and overbanks, and the remaining 40.0% (753.45 cfs) is conveyed in the east roadside ditch along Highway 40 as measured at Cross Sections 4571.82 and 998.7.

The results of the Proposed Project model are essentially unchanged when compared to the Existing Conditions model, particularly as it relates to the split flow discharges. This is reasonable given the fact that the Proposed Project model does not include any offsite improvements south of Stone Lane.

Output from the Proposed Project model can be found in Appendix C of this report.

HEC-RAS Offsite Improvements Model

The Proposed Conditions HEC-RAS model was used as a basis for the Offsite Improvements model, which is entitled WC 100 OFF. The Offsite Improvements model includes all the elements described in the Proposed Project model, plus additional future offsite improvements. The model geometry includes: the placement of fill on the proposed Hampton Inn & Holiday Inn Express site; a new 48" diameter culvert under Stone Lane; a new 72" diameter culvert at Ingles Lane; a new inline weir located at the southwest corner of the Homewood Suites site and raising the east-west berm along

the south side of the Homewood Suites site roughly 3-feet to prevent floodwater from entering the property.

The WC 100 OFF model is intended to be a preliminary analysis to determine the impact an inline weir would have on limiting the peak discharge in the east borrow ditch along Highway 40. A full design of the proposed offsite improvements is beyond the scope of this project.

The goal of the preliminary design was to set the notch elevation of a future weir at an elevation that limits the peak discharge in the split flow channel to 359 cfs, which is the capacity of the most restrictive structure downstream of Cross-Section 998.7. That limiting structure is the existing 6-foot diameter CMP culvert located at the entrance to the Holiday Inn. See HY-8 output in Appendix E.

The future inline weir structure would be located at the southwest corner of the Homewood Suites property and would be constructed across the east borrow ditch of Highway 40. The weir would tie into the existing east-west berm along the south side of the Homewood Suites site. The east-west berm would also need to be raised 3-feet to an elevation of 6766.00 (NGVD29). The preliminary notch elevation of the weir has been set at 6763.0 (NGVD29), which limits the peak overflow at Cross-Section 998.7 to 428.72 cfs. See weir detail in Appendix F.

Output from the Future Offsite Improvements model can be found in Appendix D of this report.

CONCLUSIONS

Results of this final HEC-RAS analysis indicate that a split flow exists in the left overbank of Walton Creek, beginning at a point 0.28 miles upstream (south) of Stone Lane. The minimum elevation of the split flow channel at Cross-Section 998.7 is 6758.40, and minimum elevation of the main channel of Walton Creek at Cross-Section 4571.82 is 6757.23, for a vertical difference of 1.17-feet. Under existing and proposed project conditions, the model predicts that 60% of the 1,883 cfs peak discharge stays in the main channel and roughly 40% splits from the main channel and is directed down the east side of Highway 40 at Section 998.7. The model predicts that up to 53% (1001.26 cfs) of the total flood flow (1,883 cfs) reaches Stone Lane at upstream Cross-Section 998.5.

The Existing Conditions and Proposed Project models both predict that floodwater would overtop the east-west berm constructed along the south property line of the Homewood Suite site and cause shallow flooding within the property.

The model WC 100 OFF demonstrates that an inline overflow weir located at the southwest corner of the Homewood Suites property can effectively limit the peak 100-yr discharge in the existing roadside ditch along the east side of Highway 40. Additional modeling would be required to adjust the notch elevation of the weir to limit the flow to 359 cfs and avoid potential impacts to Highway 40 and the Homewood Suites property. The model currently shows a peak flow of 428.72 cfs passing over the weir with the notch elevation set at 6763.00 (NGVD29).

The dramatic difference in the water surface elevations shown in Table 1 at Cross-Section 4667 can likely be attributed to the berm that was constructed in 2020 along the south property line of the Homewood Suites site, which serves to raise the water surface elevation until flood flows either, overtop the existing east-west berm, or return to the main channel to the east. The dramatic decreases in the water surface elevations from Cross Section 5209 to 7577 can be attributed to the split flow which diverts up to 60% of the 1,883 cfs peak discharge from the main channel to the split flow channel. Improved topographic mapping is also a factor in the notable differences in the water surface elevations between the Duplicate Effective and Existing Conditions models.

When comparing the results of the Duplicate Effective versus Existing Conditions models, the net change in the 100-yr WSEL between Cross-Sections 3609 and 9027 is as follows.

Table 1
Comparison of Duplicate Effective vs. Existing Conditions Models
Main Channel 100-yr Water Surface Elevations

River	River Station	Duplicate Effective Model WSEL (ft)	Existing Conditions Model WSEL (ft)	Difference in Elevation (ft)
Walton Creek	3609	6758.85	6758.00	-0.85
Walton Creek	3639	6759.08	6758.14	-0.94
Walton Creek	4667	6760.03	6761.09	+1.06
Walton Creek	5209	6764.84	6762.56	-2.28
Walton Creek	5550.12	6766.51	6763.44	-3.07
Walton Creek	5892	6766.74	6764.73	-2.01
Walton Creek	6375	6770.22	6767.46	-2.76
Walton Creek	7577	6771.11	6768.57	-2.54
Walton Creek	8070	6775.39	6775.39	0.0
Walton Creek	8402	6776.76	6776.76	0.0
Walton Creek	9027	6777.23	6777.23	0.0

When comparing the results of the Existing Conditions versus Proposed Project models along the main channel of Walton Creek, the net change in the 100-yr WSEL between Cross-Sections 3742 and 4178.71 is as follows.

Table 2
Comparison of Existing Conditions vs. Proposed Project Models
Main Channel 100-yr Water Surface Elevations

River	River Station	Existing Conditions Model WSEL (ft)	Proposed Project Model WSEL (ft)	Difference in Elevation (ft)
Walton Creek	3742	6758.55	6758.55	0.00
Walton Creek	3887.57	6758.63	6758.63	0.00
Walton Creek	4033.14	6759.01	6759.00	-0.01
Walton Creek	4178.71	6759.34	6759.34	0.00

Cross Section 3742 is located along the north (downstream) side of the proposed Hampton Inn & Holiday Inn Express project and Cross-Section 4178.71 is located along the north right-of-way line of Stone Lane.

As documented on the enclosed Works Maps, most of the proposed development on Lot 1 of Indian Meadows Filing No. 3 is outside the 100-year floodplain of both the main channel and split flow channel, which have been delineated as part of this analysis. There is a minor amount of proposed fill in the existing conditions floodplain on the east and west sides of Lot 1 as part of the project, but not enough to have a significant impact on the 100-year base flood elevations, as documented in Table 2.

Similar results are found when comparing the Existing Conditions and Proposed Project water surface elevations along the split flow channel as documented in Table 3.

Table 3
Comparison of Existing Conditions vs. Proposed Project Models
Split Flow 100-yr Water Surface Elevations

River	River Station	Existing Conditions Model WSEL (ft)	Proposed Project Model WSEL (ft)	Difference in Elevation (ft)
Walton Creek	998	6762.21	6762.22	+0.01
Walton Creek	998.2	6762.26	6762.27	+0.01
Walton Creek	998.3	6762.32	6762.34	+0.02
Walton Creek	998.4	6762.35	6762.37	+0.02

The Stream Stats website was also referenced to determine the time for Walton Creek to peak at Stone Lane in order to compare the time to peak on Lot 1 with the 100-yr peak flood discharge. The Stream Stats analysis predicts a time of concentration of 5.03 hours using a 16.5-mile flow path and a drainage area of roughly 49 square miles. The time for developed runoff to peak on Lot 1 is estimated to be less than 15 minutes.

February 10, 2023

Output from the Stream Stats analysis can be found in Appendix G of this report.

Recommendations stemming from this analysis include:

1. Evaluate alternatives for reducing the peak 100-year discharge in the roadside ditch along the east side of Highway 40, using an overflow weir located near the southwest corner of the Homewood Suites site. The overflow weir would include a culvert to pass stormwater runoff from frequent storm events. This alternative would need to evaluate possible adverse impacts to Highway 40, the Homewood Suites property, and the Mount Werner Water & Sanitation District.
2. Evaluate alternatives to protect the Homewood Suites building from the 100-yr flood event, which do not include the construction of an overflow weir. Explore options for extending the existing wall along the west side of the hotel to the north and east along the south side of Stone Lane to prevent floodwater from entering the property. Evaluate the height of the existing wall along the west side of the hotel to ensure adequate freeboard during a 100-yr event.
3. Raise the top of berm along the south property line of the Homewood Suites property 3-feet to prevent overtopping of the 100-yr flood flow. Also raise the top of the existing north-south wall along the west side of the hotel as required to provide 1-foot of freeboard during the 100-yr event.

Sincerely,
WOHNRADE CIVIL ENGINEERS, INC.



Mary B. Wohnrade, P.E. - Principal
Registered Engineer - CO



National Flood Hazard Layer FIRMette



106°49'11"W 40°26'55"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000
Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes, Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

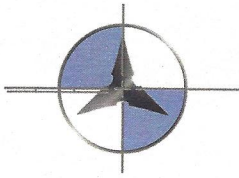
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/2/2021 at 11:18 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

EXHIBIT 1



Wohnrade Civil Engineers

- Land Development
- Highway Design

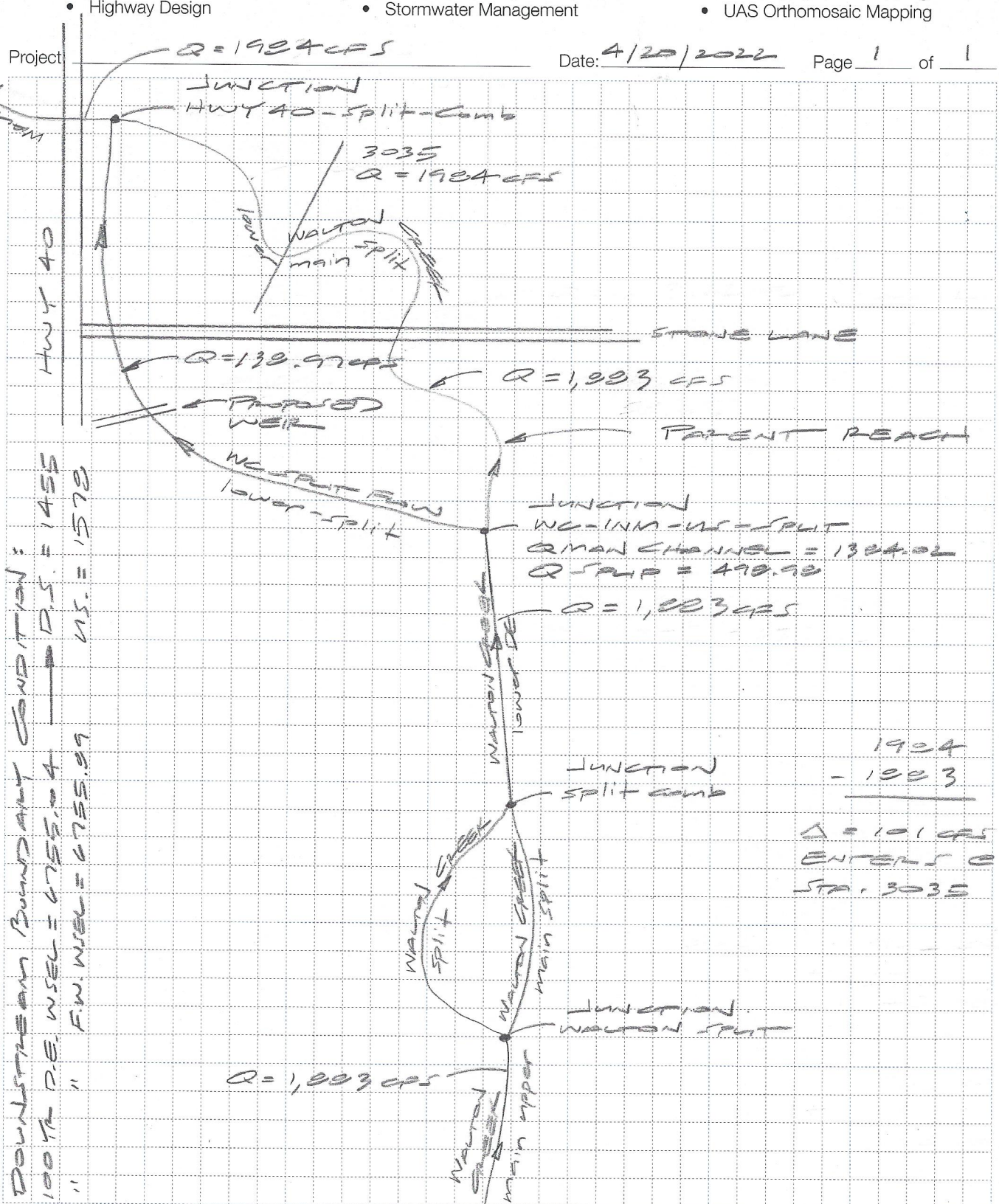
- Floodplain Management
- Stormwater Management

- UAS Topographic Mapping
- UAS Orthomosaic Mapping

Project

Date: 4/20/2022

Page 1 of 1



Lot 1, Indian Meadows Filing No. 3
Walton Creek Preliminary
HEC-RAS Split Flow Analysis
October 3, 2022



Appendix A

Duplicate Effective Model Output

HEC-RAS HEC-RAS 5.0.7 March 2019
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

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X      X XXXXXX   XXXX      XXXX      XX      XXXX
X      X X        X      X      X X      X X      X
X      X X        X      X      X X      X X      X
XXXXXXXX XXXX     X      XXX XXXX XXXXXXX XXXX
X      X X        X      X      X X      X X      X
X      X X        X      X      X X      X X      X
X      X XXXXXX   XXXX      X      X      X      XXXXX

```

PROJECT DATA

Project Title: WC 100-yr DE
Project File : WaltonCreek-DE.prj
Run Date and Time: 2/12/2022 10:35:54 AM

Project in English units

Project Description:

WaltonCreekDE.prj HEC-RAS version 5.0.7 model for Duplicate Effective Conditions

Includes the Yampa River and Tributaries Near Steamboat Springs,
CO

The Duplicate Effective Model Plan includes:

Plan 05: 100-yr Floodway
Run

PLAN DATA

Plan Title: WC 100-yr DE
Plan File : s:\2111_00_INM\04_DOCUMENTS\HEC-RAS\HOMWOOD SUITES MODELS\DUPLICATE EFFECTIVE\WaltonCreek-DE.p05

Geometry Title: WC 100-yr DE
Geometry File : s:\2111_00_INM\04_DOCUMENTS\HEC-RAS\HOMWOOD SUITES MODELS\DUPLICATE EFFECTIVE\WaltonCreek-DE.g04

Flow Title : WC 100-yr DE FW
Flow File : s:\2111_00_INM\04_DOCUMENTS\HEC-RAS\HOMWOOD SUITES MODELS\DUPLICATE EFFECTIVE\WaltonCreek-DE.f01

Plan Description:

This plan is the Duplicate Effective model for the 100-year event. The model extends from the confluence with the Yampa River (Cross Section 813, Lower Reach) to just upstream of County Road 24 (Cross Section 13645, Main Upper Reach).

The plan includes:

Geometry: WaltonCreek-DE.g04
Steady Flow:
WaltonCreek-DE.f01

Plan Summary Information:

Number of: Cross Sections = 51 Multiple Openings = 0
 Culverts = 0 Inline Structures = 0
 Bridges = 6 Lateral Structures = 0

Computational Information

Water surface calculation tolerance = 0.01
 Critical depth calculation tolerance = 0.01
 Maximum number of iterations = 20
 Maximum difference tolerance = 0.3
 Flow tolerance factor = 0.001

Computation Options

Critical depth computed only where necessary
 Conveyance Calculation Method: At breaks in n values only
 Friction Slope Method: Average Conveyance
 Computational Flow Regime: Subcritical Flow

Encroachment Data

Equal Conveyance = True
 Left Offset = 0
 Right Offset = 0

River = Walton Creek		Reach = OUTFALL2		
RS	Profile	Method	Value1	Value2
2523.	fldway#1	4	1	
2345	fldway#1	4	1	
2275	fldway#1	4	1	
2194.	fldway#1	4	1	
1922.	fldway#1	4	1	
1682	fldway#1	4	.01	
1279.	fldway#1	1	70	109
1134	fldway#1	4	1	
1109	fldway#1	4	1	
1080	fldway#1	4	.8	
1043.29*	fldway#1	4	1	
1007.00*	fldway#1	4	1	
971	fldway#1	4	.8	
821	fldway#1	4	.1	
615	fldway#1	1	85	142
577	fldway#1	4	1	
543	fldway#1	1	153	225
310	fldway#1	4	.5	
83	fldway#1	4	1	
55	fldway#1	4	1	
27	fldway#1	4	1	

River = Walton Creek		Reach = lower		
RS	Profile	Method	Value1	Value2
11692	fldway#1	1	600	887.09
11280.	fldway#1	1	1002.3	1214
10714	fldway#1	1	1278.77	1585.52
10089	fldway#1	1	1560	1760
9471	fldway#1	1	1564.2	1767.9
9027.	fldway#1	1	1615.06	1734.4
8734	fldway#1	1	1375	1724.31
8402.*	fldway#1	1	1240	1560.36
8070.	fldway#1	1	1135	1396.42
7577.	fldway#1	1	1120	1561.09
7176.41*	fldway#1	1	949	1319.12
6775.68*	fldway#1	1	777	1077.15
6375	fldway#1	1	535	835.18
5892	fldway#1	1	720.53	1034.1
5550.12*	fldway#1	1	610.57	922.42
5209	fldway#1	1	494.55	810.74
4667	fldway#1	1	39.98	301.35
4214.	fldway#1	1	465	698.17
3886.	fldway#1	1	560.63	735.44
3639	fldway#1	1	30	124
3622	fldway#1	1	30	124
3609	fldway#1	1	24	125
3379	fldway#1	1	643.3	706.07

3035.	fldway#1	1	730.26	806.25
2665	fldway#1	1	56.23	165.08
2539	fldway#1	1	98	285
2528	fldway#1	1	98	285
2517	fldway#1	1	98	285
2294	fldway#1	1	254.87	400.84
2103	fldway#1	1	27.36	169.74
1789	fldway#1	1	135	241.37
1640.	fldway#1	1	105.96	179.87
1578	fldway#1	1	385	448
1516	fldway#1	1	385	448
1455	fldway#1	1	385	448
1353	fldway#1	1	146	220
1340	fldway#1	1	146	220
1326	fldway#1	1	146	250.56
1228.	fldway#1	1	133.53	210.79
893	fldway#1	1	93.55	233.41
813	fldway#1	1	72	189.58

River = Walton Creek		Reach = 2c3		
RS	Profile	Method	Value1	Value2
54400	fldway#1	4	1	
53544	fldway#1	4	1	
52692	fldway#1	4	1	
51837	fldway#1	4	1	
51095	fldway#1	4	1	
49097	fldway#1	4	1	
48144	fldway#1	4	1	
47436	fldway#1	4	1	
46555	fldway#1	4	1	
45755	fldway#1	4	1	
45192	fldway#1	4	1	
45162	fldway#1	4	1	
45140	fldway#1	4	1	
44926	fldway#1	4	1	
44558	fldway#1	4	1	
43558	fldway#1	4	1	
42716	fldway#1	4	1	
41833	fldway#1	4	1	
41641.3*	fldway#1	4	1	
41449.6*	fldway#1	4	1	
41258	fldway#1	4	1	
40830	fldway#1	4	1	
39718	fldway#1	4	1	
38705	fldway#1	4	1	
37604	fldway#1	4	1	
36519	fldway#1	4	1	
35502	fldway#1	4	1	
34337	fldway#1	4	1	
33474	fldway#1	4	1	
32452	fldway#1	4	1	
31941	fldway#1	4	1	
31922	fldway#1	4	1	
31898	fldway#1	4	1	
31520	fldway#1	4	1	
29933	fldway#1	4	1	
29333	fldway#1	4	1	
28621	fldway#1	4	1	
26882	fldway#1	4	1	
26195	fldway#1	4	1	
24620	fldway#1	4	1	
23613	fldway#1	4	1	
22423	fldway#1	4	1	
21176	fldway#1	4	.7	
20253	fldway#1	4	1	
19107	fldway#1	4	1	
18000	fldway#1	4	1	
17284	fldway#1	4	1	
16408	fldway#1	4	1	
15702	fldway#1	4	1	
15097	fldway#1	4	1	

13797	fldway#1	4	1
12721	fldway#1	4	1
11899	fldway#1	4	.8
11413	fldway#1	4	.5
11398	fldway#1	4	1
11380	fldway#1	4	.9
10881	fldway#1	4	1
10286	fldway#1	4	1
8750	fldway#1	4	1
8182	fldway#1	4	1
8148	fldway#1	4	1
8112	fldway#1	4	1
7804	fldway#1	4	1
6956	fldway#1	4	1
5967	fldway#1	4	.8
4947	fldway#1	4	1
2497	fldway#1	4	.8
1769	fldway#1	4	1
1125	fldway#1	4	.8
0	fldway#1	4	1

River = Walton Creek		Reach = main split		
RS	Profile	Method	Value1	Value2
12570.	fldway#1	1	462.78	581.85
12291	fldway#1	1	829	876
12250	fldway#1	1	829	876
12202	fldway#1	1	829	876
12112	fldway#1	1	1111.05	1173.98

River = Walton Creek		Reach = split		
RS	Profile	Method	Value1	Value2
12570	fldway#1	1	176.58	308.4
12514.2*fldway#1		1	237.86	340.52
12458.4*fldway#1		1	299.15	372.64
12402.6*fldway#1		1	360.43	441.76
12346.8*fldway#1		1	421.72	515.88
12291	fldway#1	1	473	575
12250	fldway#1	1	483	554
12202	fldway#1	1	483	554
12112	fldway#1	1	850	920

River = Walton Creek		Reach = main upper		
RS	Profile	Method	Value1	Value2
13645	fldway#1	1	304.48	441.79
13145	fldway#1	1	280	431.99

FLOW DATA

Flow Title: WC 100-yr DE FW

Flow File : s:\2111_00_INM\04_DOCUMENTS\HEC-RAS\HOMEWOOD SUITES MODELS\DUPLICATE EFFECTIVE\WaltonCreek-DE.f01

Flow Data (cfs)

River	Reach	RS	100year	fldway#1
Yampa River	1	1065995.	6984	6984
Yampa River	1b	1061607.	5983.36	5983.36
Yampa River	1b	1058854.	2227.76	2227.76
Yampa River	1b	1051642.	4430.26	4430.26
Yampa River	bypass	1063835.	1000.64	1000.64
Yampa River	bypass	1057082.	4756.24	4756.24
Yampa River	bypass	1054740.	2553.74	2553.74
Yampa River	1c	1045698.	6984	6984
Yampa River	1c	1044113.	7307	7307
Yampa River	1c	1037776.	7590	7590
Yampa River	1c	1032548.	7666	7666
Yampa River	1c	1018905.	7939	7939
Yampa River	1c	1018222.	8126	8126

Yampa River	1c	1017729.	8249	8249
Yampa River	1c	1015951.	8442	8442
Yampa River	1c	1011243.	8550	8550
Yampa River	1c	1007898.	8780	8780
Yampa River	2a	1003991.	3975.48	3975.48
Yampa River	2a	1002867.	3051.98	3051.98
Yampa River	2b	1003401.	4804.52	4804.52
Yampa River	2b	1002349.	5728.02	5728.02
Yampa River	2c	1001687.	8780	8780
Yampa River	2c	1001265.	8934	8934
Yampa River	2c	1000745.	8209	8209
Yampa River	2c	997360.	9021	9021
Yampa River	2c	986807.	9091	9091
Yampa River	2c1	985674.	6461.54	6461.54
Yampa River	2c1	984726.	5420.66	5420.66
Yampa River	2c2	986168.	2629.46	2629.46
Yampa River	2c2	985125.	3670.34	3670.34
Yampa River	2c3	984058.	9091	9091
Yampa River	2c3	974850.	9248	9248
Yampa River	2c3	965160.	9523	9523
Yampa River	2c3	963132.	10076	10076
Yampa River	2c3	962110.	10356	10356
Yampa River	2c3	961599.	10608	10608
Yampa River	2c3	959591.	11048	11048
Yampa River	2c3	958991.	11402	11402
Yampa River	2c3	956540.	12476	12476
Yampa River	2c3	953271.	13060	13060
Yampa River	2c3	952081.	13060	13060
Yampa River	2c3	950834.	13769	13769
Yampa River	2c3	942379.	14524	14524
Burgess Creek	5	12187	290	290
Burgess Creek	5	9725	358	358
Burgess Creek	5	5837	399	399
Burgess Creek	overland	5898	74.26	74.26
Burgess Creek	long culvert	5704	324.74	324.74
Burgess Creek	downstream	4252	399	399
Burgess Creek	SHEETFLOW	3488	212.82	212.82
Burgess Creek	LOWER	3332	186.18	186.18
Burgess Creek	OUTFALL2	2468	399	399
Burgess Creek	OUTFALL2	654	50	50
Walton Creek	main upper	13645	1883	1883
Walton Creek	split	12570	647.13	647.13
Walton Creek	main split	12570.	1235.87	1235.87
Walton Creek	lower	11692	1883	1883
Walton Creek	lower	3035.	1984	1984
Elk River	7	45211	7307	7307
Elk River	7	39359.03	7400	7400
Elk River	7	31296.05	7418	7418
Elk River	7	20835.24	7598	7598
Elk River	7	12519.21	7635	7635
Elk River	7	2036	4508	4508

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
Walton Creek	lower	100year		Normal S = 0.002
Walton Creek	lower	fldway#1		Normal S = 0.002

Observed Water Surface Marks

River	Reach	RS	100year	fldway#1
Walton Creek	4	13145.60	6819.62	6819.8
Elk River	7	16700	6586.15	6586.68
Elk River	7	16534	6597.15	6597.68
Yampa River	2c	1000651.	6703.45	6704.01

GEOMETRY DATA

Geometry Title: WC 100-yr DE
 Geometry File : s:\2111_00_INM\04_DOCUMENTS\HEC-RAS\HOMEWOOD SUITES MODELS\DUPLICATE
 EFFECTIVE\WaltonCreek-DE.g04

Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
Walton Creek	main upper		waltonsplit
Walton Creek	split	waltonsplit	splitcomb
Walton Creek	main split	waltonsplit	splitcomb
Walton Creek	lower	splitcomb	

JUNCTION INFORMATION

Name: splitcomb
 Description:
 Energy computation Method

Length across Junction		Tributary		Reach	Length	Angle
River	Reach	River	Reach			
Walton Creek	main split	to Walton Creek	lower	lower	421	
Walton Creek	split	to Walton Creek	lower	lower	411	

Name: waltonsplit
 Description:
 Energy computation Method

Length across Junction		Tributary		Reach	Length	Angle
River	Reach	River	Reach			
Walton Creek	main upper	to Walton Creek	main split	main split	575.54	
Walton Creek	main upper	to Walton Creek	split	split	670	

CROSS SECTION

RIVER: Walton Creek
 REACH: main upper RS: 13645

INPUT

Description: copied 13145

Station Elevation Data				num=	14				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6825.24	184.11	6823.43	202.83	6821.13	289.96	6821.82	351.13	6821.23
378.63	6818.68	382.79	6818.29	391.92	6817.46	401.06	6817.92	409.29	6820.45
411.15	6821.02	431.99	6822.37	574.42	6823.03	766.45	6824.63		

Manning's n Values				num=	3				
Sta	n Val	Sta	n Val	Sta	n Val				
0	.06	351.13	.04	431.99	.06				

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	351.13	431.99		500	500	.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: main upper RS: 13145

INPUT

Description:

Station Elevation Data				num=	14				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6825.24	184.11	6823.43	202.83	6821.13	289.96	6821.82	351.13	6821.23
378.63	6818.68	382.79	6818.29	391.92	6817.46	401.06	6817.92	409.29	6820.45
411.15	6821.02	431.99	6822.37	574.42	6823.03	766.45	6824.63		

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
0	.06	351.13	.04	431.99	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	351.13	431.99		0	0		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: split RS: 12570

INPUT

Description:

Station Elevation Data			num= 8		
Sta	Elev	Sta	Elev	Sta	Elev
0	6812.48	176.58	6810.91	212.25	6807.4
243.4	6808.97	373.68	6809.99	420.68	6810.57

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
0	.06	176.58	.045	234.53	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	176.58	243.4		88	85.4		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: split RS: 12514.2*

INPUT

Description:

Station Elevation Data			num= 11		
Sta	Elev	Sta	Elev	Sta	Elev
81.6	6811.91	237.86	6810.15	260.67	6807.69
277.27	6807.02	295.8	6808.06	298.84	6808.04
471.54	6809.89			305.52	6808.46
				427.53	6809.39

Manning's n Values			num= 5		
Sta	n Val	Sta	n Val	Sta	n Val
81.6	.058	237.86	.044	296.54	.056
				305.52	.06
				471.54	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	237.86	305.52		88	85.4		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: split RS: 12458.4*

INPUT

Description:

Station Elevation Data			num= 11		
Sta	Elev	Sta	Elev	Sta	Elev
163.2	6811.34	299.15	6809.38	320.5	6806.87
336.93	6806.27	357.08	6807.08	360.38	6807.07
522.41	6809.21			367.64	6807.96
				481.38	6808.78

Manning's n Values			num= 5		
Sta	n Val	Sta	n Val	Sta	n Val
163.2	.056	299.15	.043	358.55	.052
				367.64	.06
				522.41	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	299.15	367.64		88	85.4		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: split

RS: 12402.6*

INPUT

Description:

Station		Elevation Data		num=		11					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
244.8	6810.77	360.43	6808.62	380.33	6806.04	389.7	6805.18	395.8	6805.51		
396.59	6805.53	418.35	6806.1	421.92	6806.1	429.76	6807.45	535.22	6808.18		
573.27	6808.52										

Manning's n Values

Sta		n Val		Sta		n Val		Sta		n Val	
244.8	.054	360.43	.042	420.56	.048	429.76	.06	573.27	.06		

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	360.43	429.76		88	85.4	68		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: split

RS: 12346.8*

INPUT

Description:

Station		Elevation Data		num=		11					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
326.4	6810.2	421.72	6807.85	440.17	6805.21	448.85	6804.44	455.4	6804.78		
456.25	6804.79	479.63	6805.12	483.46	6805.12	491.88	6806.95	589.07	6807.57		
624.14	6807.84										

Manning's n Values

Sta		n Val		Sta		n Val		Sta		n Val	
326.4	.052	421.72	.041	483.46	.044	491.88	.06	624.14	.06		

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	421.72	491.88		88	85.4	68		.3	.5

CROSS SECTION

RIVER: Walton Creek
REACH: split

RS: 12291

INPUT

Description:

Station		Elevation Data		num=		9					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
408	6809.63	483	6807.09	500	6804.38	508	6803.7	515	6804.04		
545	6804.15	554	6806.44	675	6807.16	675	6809				

Manning's n Values

Sta		n Val		Sta		n Val	
408	.05	483	.04	554	.06		

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	483	554		88	88	88		.3	.5

Ineffective Flow		num=		2	
Sta L	Sta R	Elev	Permanent		
408	483	6809.5	F		
554	675	6809.5	F		

BRIDGE

RIVER: Walton Creek
REACH: split

RS: 12250

INPUT

Description:

Distance from Upstream XS = 24

Deck/Roadway Width = 38

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 8

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
0	6807.13				150	6807.18				257	6807.43			
370	6807.98				495	6809.89	6807.9			527	6810.15	6808.1		
648	6808.65				675	6809								

Upstream Bridge Cross Section Data

Station Elevation Data num= 9

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
408	6809.63	483	6807.09	500	6804.38	508	6803.7	515	6804.04
545	6804.15	554	6806.44	675	6807.16	675	6809		

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
408	.05	483	.04	554	.06

Bank Sta: Left Right Coeff Contr. Expan.

483 554 .3 .5

Ineffective Flow num= 2

Sta L Sta R Elev Permanent

408	483	6809.5	F
554	675	6809.5	F

Downstream Deck/Roadway Coordinates

num= 8

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
0	6807.13				150	6807.18				257	6807.43			
370	6807.98				495	6809.89	6807.9			527	6810.15	6808.1		
648	6808.65				675	6809								

Downstream Bridge Cross Section Data

Station Elevation Data num= 9

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
408	6809.63	483	6807.09	500	6804.38	508	6803.7	515	6804.04
545	6804.15	554	6806.44	675	6807.16	675	6809		

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
408	.05	483	.04	554	.06

Bank Sta: Left Right Coeff Contr. Expan.

483 554 .3 .5

Ineffective Flow num= 2

Sta L Sta R Elev Permanent

408	483	6809	F
554	675	6809	F

Upstream Embankment side slope = 0 horiz. to 1.0 vertical

Downstream Embankment side slope = 0 horiz. to 1.0 vertical

Maximum allowable submergence for weir flow = .95

Elevation at which weir flow begins =

Energy head used in spillway design =

Spillway height used in design =

Weir crest shape = Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy

Selected Low Flow Methods = Energy

High Flow Method

Energy Only

Additional Bridge Parameters

Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

BRIDGE OUTPUT Profile #100year

E.G. US. (ft)	6808.35	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6808.25	E.G. Elev (ft)	6808.19	6807.62
Q Total (cfs)	647.13	W.S. Elev (ft)	6807.69	6806.44
Q Bridge (cfs)	647.13	Crit W.S. (ft)	6806.48	6806.44
Q Weir (cfs)		Max Chl Dpth (ft)	3.99	2.74
Weir Sta Lft (ft)		Vel Total (ft/s)	5.67	8.71
Weir Sta Rgt (ft)		Flow Area (sq ft)	114.15	74.32
Weir Submerg		Froude # Chl	0.50	0.93
Weir Max Depth (ft)		Specif Force (cu ft)	319.02	262.94
Min El Weir Flow (ft)	6809.51	Hydr Depth (ft)	3.57	2.32
Min El Prs (ft)	6808.10	W.P. Total (ft)	38.31	35.83
Delta EG (ft)	1.75	Conv. Total (cfs)	8780.0	4490.5
Delta WS (ft)	2.40	Top Width (ft)	32.01	32.05
BR Open Area (sq ft)	124.14	Frctn Loss (ft)	0.36	0.52
BR Open Vel (ft/s)	8.71	C & E Loss (ft)	0.20	0.22
BR Sluice Coef		Shear Total (lb/sq ft)	1.01	2.69
BR Sel Method	Energy only	Power Total (lb/ft s)	5.73	23.42

Warning: For the final momentum answer at the bridge, the upstream energy was computed lower than the downstream

energy. This is not physically possible, the momentum answer has been disregarded.

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than

1.4. This may indicate the need for additional cross sections.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

Warning: The energy equation could not be balanced within the specified number of iterations. The program used critical

depth for the water surface and continued on with the calculations.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate

the need for additional cross sections.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated

water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The

program defaulted to critical depth.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

BRIDGE OUTPUT Profile #fldway#1

E.G. US. (ft)	6808.35	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6808.25	E.G. Elev (ft)	6808.19	6807.62
Q Total (cfs)	647.13	W.S. Elev (ft)	6807.69	6806.44
Q Bridge (cfs)	647.13	Crit W.S. (ft)	6806.48	6806.44
Q Weir (cfs)		Max Chl Dpth (ft)	3.99	2.74
Weir Sta Lft (ft)		Vel Total (ft/s)	5.67	8.71
Weir Sta Rgt (ft)		Flow Area (sq ft)	114.15	74.32
Weir Submerg		Froude # Chl	0.50	0.93
Weir Max Depth (ft)		Specif Force (cu ft)	319.02	262.94
Min El Weir Flow (ft)	6809.72	Hydr Depth (ft)	3.57	2.32
Min El Prs (ft)	6808.10	W.P. Total (ft)	38.31	35.83
Delta EG (ft)	1.59	Conv. Total (cfs)	8780.0	4490.5
Delta WS (ft)	1.91	Top Width (ft)	32.01	32.05
BR Open Area (sq ft)	124.14	Frctn Loss (ft)	0.36	0.33
BR Open Vel (ft/s)	8.71	C & E Loss (ft)	0.20	0.38
BR Sluice Coef		Shear Total (lb/sq ft)	1.01	2.69
BR Sel Method	Energy only	Power Total (lb/ft s)	5.73	23.42

Warning: For the final momentum answer at the bridge, the upstream energy was computed lower than the downstream energy. This is not physically possible, the momentum answer has been disregarded.

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

Warning: The energy equation could not be balanced within the specified number of iterations. The program used critical depth for the water surface and continued on with the calculations.

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

CROSS SECTION

RIVER: Walton Creek

REACH: split RS: 12202

INPUT

Description:

Station Elevation Data		num=	9						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
408	6809.63	483	6807.09	500	6804.38	508	6803.7	515	6804.04
545	6804.15	554	6806.44	675	6807.16	675	6809		

Manning's n Values		num=	3		
Sta	n Val	Sta	n Val	Sta	n Val
408	.05	483	.04	554	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	483	554		85	85		
						.3	.5

Ineffective Flow		num=	2		
Sta L	Sta R	Elev	Permanent		
408	483	6809	F		
554	675	6809	F		

CROSS SECTION

RIVER: Walton Creek

REACH: split RS: 12112

INPUT

Description:

Station Elevation Data		num=	7						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
813.4	6806.57	849.67	6804.22	869.23	6801.1	873.08	6801.09	883.44	6801.29
894.32	6802.58	1058.33	6804.96						

Manning's n Values		num=	3		
Sta	n Val	Sta	n Val	Sta	n Val
813.4	.06	813.4	.04	1058.33	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	813.4	1058.33		0	0		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: main split RS: 12570.

INPUT

Description:

Station	Elevation	Data	num=	10
Sta	Elev	Sta	Elev	Sta
455.26	6812.85	462.78	6810.04	482.09
561.71	6807.23	571.14	6809.38	581.85
				6809.38
				609.38
				6818.29
				710.39
				6823.74

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
455.26	.06	462.78	.04
		581.85	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	462.78	581.85		270	270		.3	.5

CROSS SECTION

RIVER: Walton Creek
 REACH: main split RS: 12291

INPUT

Description:

Station	Elevation	Data	num=	11
Sta	Elev	Sta	Elev	Sta
675	6807.16	791	6807.65	829
868	6802.42	876	6808.91	889
				6809.13
				937
				6808.04
				974
				6819.92
				1164
				6825.96

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
675	.06	791	.04
		889	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	829	876		88	88		.3	.5

Ineffective Flow	num=	2
Sta L	Sta R	Elev
675	814	6811.5
889	1164	6813
		F
		F

BRIDGE

RIVER: Walton Creek
 REACH: main split RS: 12250

INPUT

Description:

Distance from Upstream XS = 24
 Deck/Roadway Width = 38
 Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates
 num= 8

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
675	6808.65				829	6811.56				835	6811.7	6810.58		
847	6812.14	6810.65			869	6812.5	6810.72			939	6815.51			
1054	6823.37				1164	6827.8								

Upstream Bridge Cross Section Data

Station	Elevation	Data	num=	11
Sta	Elev	Sta	Elev	Sta
675	6807.16	791	6807.65	829
868	6802.42	876	6808.91	889
				6809.13
				937
				6808.04
				974
				6819.92

1164 6825.96

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
675	.06	791	.04
		889	.06

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	829	876		.3	.5

Ineffective Flow		num= 2	
Sta L	Sta R	Elev	Permanent
675	814	6811.5	F
889	1164	6813	F

Downstream Deck/Roadway Coordinates

num= 7			
Sta	Hi	Cord	Lo
675	6808.65		
865	6812.5	6810.72	
1190	6827.8		

Sta	Hi	Cord	Lo	Cord
831	6811.7	6810.58		
965	6815.51			

Sta	Hi	Cord	Lo	Cord
843	6812.14	6810.65		
1080	6823.37			

Downstream Bridge Cross Section Data

Station Elevation Data		num= 10	
Sta	Elev	Sta	Elev
675	6807.16	829	6805.71
876	6804.94	903	6807.02

Sta	Elev	Sta	Elev
838	6802.5	852	6801.65
963	6808.04	1000	6819.92

Sta	Elev	Sta	Elev
865	6802.53	1190	6825.96

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
675	.06	829	.04
		903	.06

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	829	876		.3	.5

Ineffective Flow		num= 2	
Sta L	Sta R	Elev	Permanent
675	820	6810	F
880	1190	6812.8	F

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Pressure and Weir flow
Submerged Inlet Cd =
Submerged Inlet + Outlet Cd = .8
Max Low Cord =

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

BRIDGE OUTPUT Profile #100year

E.G. US. (ft)	6808.42	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6807.83	E.G. Elev (ft)	6808.16	6807.77
Q Total (cfs)	1235.87	W.S. Elev (ft)	6807.15	6806.59
Q Bridge (cfs)	1235.87	Crit W.S. (ft)	6806.11	6805.88
Q Weir (cfs)		Max Chl Dpth (ft)	5.77	4.94

Weir Sta Lft (ft)		Vel Total (ft/s)	8.06	8.69
Weir Sta Rgt (ft)		Flow Area (sq ft)	153.40	142.22
Weir Submerg		Froude # Chl	0.59	0.69
Weir Max Depth (ft)		Specif Force (cu ft)	677.96	640.50
Min El Weir Flow (ft)	6811.29	Hydr Depth (ft)	4.51	4.17
Min El Prs (ft)	6810.72	W.P. Total (ft)	40.30	40.31
Delta EG (ft)	1.09	Conv. Total (cfs)	13892.4	12243.5
Delta WS (ft)	1.18	Top Width (ft)	34.03	34.13
BR Open Area (sq ft)	272.88	Frctn Loss (ft)	0.34	0.19
BR Open Vel (ft/s)	8.69	C & E Loss (ft)	0.05	0.24
BR Sluice Coef		Shear Total (lb/sq ft)	1.88	2.24
BR Sel Method	Energy only	Power Total (lb/ft s)	15.15	19.50

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

BRIDGE OUTPUT Profile #fldway#1

E.G. US. (ft)	6808.46	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6807.86	E.G. Elev (ft)	6808.22	6807.89
Q Total (cfs)	1235.87	W.S. Elev (ft)	6807.26	6806.85
Q Bridge (cfs)	1235.87	Crit W.S. (ft)	6806.11	6805.88
Q Weir (cfs)		Max Chl Dpth (ft)	5.88	5.20
Weir Sta Lft (ft)		Vel Total (ft/s)	7.87	8.18
Weir Sta Rgt (ft)		Flow Area (sq ft)	157.07	151.05
Weir Submerg		Froude # Chl	0.57	0.63
Weir Max Depth (ft)		Specif Force (cu ft)	687.48	658.93
Min El Weir Flow (ft)	6811.67	Hydr Depth (ft)	4.62	4.43
Min El Prs (ft)	6810.72	W.P. Total (ft)	40.57	40.83
Delta EG (ft)	0.93	Conv. Total (cfs)	14387.3	13422.9
Delta WS (ft)	1.00	Top Width (ft)	34.03	34.12
BR Open Area (sq ft)	272.88	Frctn Loss (ft)	0.30	0.17
BR Open Vel (ft/s)	8.18	C & E Loss (ft)	0.02	0.19
BR Sluice Coef		Shear Total (lb/sq ft)	1.78	1.96
BR Sel Method	Energy only	Power Total (lb/ft s)	14.03	16.02

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

CROSS SECTION

RIVER: Walton Creek

REACH: main split RS: 12202

INPUT

Description:

Station	Elevation	Data	num=	10
Sta	Elev	Sta	Elev	Sta Elev Sta Elev Sta Elev
675	6807.16	829	6805.71	838 6802.5 852 6801.65 865 6802.53
876	6804.94	903	6807.02	963 6808.04 1000 6819.92 1190 6825.96

Manning's n Values	num=	3
Sta n Val	Sta n Val	Sta n Val
675 .06	829 .04	903 .06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
829	876	85	85	85	.3	.5	
Ineffective Flow	num=	2					
Sta L	Sta R	Elev	Permanent				
675	820	6810	F				
880	1190	6812.8	F				

CROSS SECTION

RIVER: Walton Creek

REACH: main split RS: 12112

INPUT

Description:

Station		Elevation Data		num=		11					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1058.33	6804.96	1111.05	6804.41	1127.99	6800.95	1129.48	6801	1136.5	6801.25		
1148.46	6801.24	1152.04	6801.77	1173.98	6804.99	1225.78	6808.55	1267.51	6820.4		
1503.96	6830.17										

Manning's n Values

num=		3			
Sta	n Val	Sta	n Val	Sta	n Val
1058.33	.06	1111.05	.04	1173.98	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1111.05	1173.98		0	0		.1	.3

Ineffective Flow		num=		2	
Sta L	Sta R	Elev	Permanent		
1058.33	1058.33	6812	F		
1210	1503.96	6812	F		

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 11692

INPUT

Description:

Station		Elevation Data		num=		11					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
415.91	6805.87	637.68	6803.97	722.61	6803.9	823.63	6802.88	828.61	6800.93		
831.18	6799.93	840.84	6799.38	852.13	6799.92	861.68	6801.08	887.09	6804.16		
972.55	6817.55										

Manning's n Values

num=		3			
Sta	n Val	Sta	n Val	Sta	n Val
415.91	.06	823.63	.04	887.09	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	823.63	887.09		420	411.17		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 11280.

INPUT

Description:

Station		Elevation Data		num=		15					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
588.56	6797.39	663.2	6796.97	831.99	6795.47	981.56	6795.32	1038.02	6795.01		
1066.23	6795.16	1079.97	6791.73	1082.66	6791.66	1102.17	6791.13	1117.11	6791.82		
1128.62	6794.51	1129.73	6794.51	1214.64	6794.4	1305.56	6792.52	1344.92	6814.49		

Manning's n Values

num=		3			
Sta	n Val	Sta	n Val	Sta	n Val
588.56	.06	1038.02	.04	1129.73	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1038.02	1129.73		570	566.57		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 10714

INPUT

Description:

Station Elevation Data										num=	18
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
738.45	6794.9	950.91	6794.29	1092.13	6793.49	1278.77	6794.19	1332.27	6790.66		
1338.63	6789.24	1355.63	6788.82	1356.57	6789.41	1479.17	6789.86	1551.22	6786.44		
1552.61	6786.37	1569.89	6783.81	1578.77	6790.87	1578.92	6790.97	1585.52	6795.47		
1750.87	6800.09	1787.96	6811.06	1846.69	6816.47						

Manning's n Values						num=	3
Sta	n Val	Sta	n Val	Sta	n Val		
738.45	.06	1278.77	.04	1585.52	.06		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1278.77	1585.52		505.72	625.08	497.71	.1	.3

Ineffective Flow				num=	2
Sta L	Sta R	Elev	Permanent		
738.45	1278.77	6794.19	F		
1585.52	1846.69	6795.47	F		

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 10089

INPUT

Description:

Station Elevation Data										num=	18
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1250.69	6786.1	1272.99	6784.03	1390.73	6785.14	1395.29	6783.36	1409.01	6782.76		
1430.09	6783.43	1432.86	6785.39	1572.8	6783.74	1580.55	6785.04	1714.09	6783.92		
1725.33	6783.16	1737.74	6782.33	1744.38	6781.76	1754.03	6782.24	1758.23	6784.56		
1761.3	6786.26	1795.47	6790.56	1827.68	6799.52						

Manning's n Values						num=	3
Sta	n Val	Sta	n Val	Sta	n Val		
1250.69	.06	1714.09	.04	1758.23	.06		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1714.09	1758.23		498.86	617.68	510	.1	.3

Ineffective Flow				num=	1
Sta L	Sta R	Elev	Permanent		
1250.69	1360	6787	F		

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 9471

INPUT

Description:

Station Elevation Data										num=	24
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
165.84	6783.91	387.29	6783.83	518.81	6784.53	548.23	6782.94	724.7	6783.48		
846.56	6785.35	861	6782.7	1038.1	6783.83	1272.58	6784.3	1524.02	6782.97		
1585.99	6779.6	1698.12	6780.07	1701.86	6779.16	1737.4	6776.43	1742.23	6776.08		
1750.39	6775.5	1760.21	6776.59	1765.17	6777.23	1766.48	6783.35	1787.38	6794.58		
1787.4	6794.58	1787.41	6794.58	1795.02	6794.54	1820.51	6794.41				

Manning's n Values						num=	3
Sta	n Val	Sta	n Val	Sta	n Val		
165.84	.06	1698.12	.04	1766.48	.06		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1698.12	1766.48		313.68	444.1	280.09	.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: lower

RS: 9027.

INPUT

Description:

Station Elevation Data									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6780	0	6775.83	173.67	6775.69	509.29	6777.88	806.71	6777.77
834.13	6775.44	918.02	6776.32	1115.95	6776.78	1185.87	6776.2	1196.12	6778.36
1432.2	6776.9	1497.74	6778.09	1538.77	6777.46	1615.06	6778.28	1636.06	6773.68
1643.98	6773.7	1665.36	6773.74	1688.26	6773.9	1696.18	6773.96	1709.98	6776.8
1807.12	6778.08	1813.63	6782.15	1845.09	6798.51				

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1615.06	.04	1709.98	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1615.06	1709.98		285.55	293.44		.1	.3
Ineffective Flow			num=	2				
Sta L	Sta R	Elev	Permanent					
-50	1615.06	6778.28	F					
1709.98	1845.09	6776.8	F					

CROSS SECTION

RIVER: Walton Creek
REACH: lower

RS: 8734

INPUT

Description:

Station Elevation Data									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6778.2	0	6771.38	50.46	6772.1	258.79	6774.57	573.79	6774.57
853.9	6774.73	977.79	6775.52	1363.04	6775.91	1475.62	6775.6	1518.36	6775.95
1528.1	6772.39	1529.32	6772.35	1543.98	6771.83	1563.92	6772.32	1564.29	6772.34
1594.06	6773.63	1685.1	6775.06	1709.11	6773.53	1712.5	6773.86	1724.31	6776.46
1800.11	6779.29	1840.34	6793.84						

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1518.36	.04	1724.31	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1518.36	1724.31		275	331.69		.1	.3
Ineffective Flow			num=	2				
Sta L	Sta R	Elev	Permanent					
-50	1375	6780	F					
1724.31	1840.34	6776.46	F					

CROSS SECTION

RIVER: Walton Creek
REACH: lower

RS: 8402.*

INPUT

Description:

Station Elevation Data									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6776.65	-4.06	6772.88	4.85	6772.88	42.29	6773.17	192.67	6774.12
233.69	6774.12	367.84	6773.22	523.08	6774.01	579.47	6774.32	780.41	6774.66
844.65	6774.98	894.23	6775.1	1046.88	6775.02	1248.16	6775.42	1303.2	6775.42
1351.59	6775.57	1390.85	6775.92	1402.4	6773.23	1403.84	6773.1	1404.19	6773.06
1404.46	6773.04	1421.22	6772.45	1436.61	6772.92	1436.89	6772.94	1443.95	6773.24
1448.26	6773.52	1459.86	6773.87	1477.13	6774.08	1530.11	6774.72	1548.64	6774
1551.25	6774.17	1556.36	6774.9	1560.36	6776.06	1698.15	6779.02	1744.88	6778.47
1795.32	6781.23	1805.06	6784.42	1842.8	6790.67				

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1390.85	.04	1560.36	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1390.85	1560.36		275	331.69		.1	.3

Ineffective Flow	num=	2
Sta L	Sta R	Elev
-50	1060	6780
1560.365	1842.86776	0.065
		F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower RS: 8070.

INPUT

Description:

Station	Elevation	Data	num=	21					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6775.1	0	6774.25	171.2	6774.21	330.86	6771.88	523.77	6774.03
765.48	6774.78	949.81	6774.35	1183.45	6775.1	1263.35	6775.88	1278.77	6773.79
1279.08	6773.75	1298.46	6773.07	1314.46	6773.74	1317.5	6774.07	1337.82	6774.18
1393.6	6774.49	1396.42	6775.67	1615.39	6779.47	1769.81	6775.67	1785.29	6780.6
1845.27	6787.5								

Manning's n	Values	num=	3		
Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1263.35	.04	1396.42	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1263.35	1396.42		335	493.05		.1	.3

Ineffective Flow	num=	2
Sta L	Sta R	Elev
-50	745	6780
1396.42	1845.27	6775.67
		F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower RS: 7577.

INPUT

Description:

Station	Elevation	Data	num=	22					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6772.2	0	6767.31	455.55	6768.05	615.43	6767.45	649.69	6764.46
656.34	6763.68	660.91	6764.89	672.06	6765.83	741.01	6766.88	948.06	6768.26
956.75	6766.72	1419.51	6770.5	1485.64	6767.88	1505.99	6766.43	1509.48	6766.18
1519.66	6765.79	1530.42	6766.3	1530.49	6766.31	1561.09	6769.97	1704.49	6771.02
1872.69	6772.44	1884.84	6778.16						

Manning's n	Values	num=	3		
Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1419.51	.04	1561.09	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1419.51	1561.09		136.67	400.73		.1	.3

Ineffective Flow	num=	2
Sta L	Sta R	Elev
-50	430	6775
1561.09	1884.84	6769.97
		F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower RS: 7176.41*

INPUT

Station	Elevation	Data	num= 35							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
-50	6771.1	-7.5	6767.57	27.25	6767.39	370.13	6768.14	379.76	6767.58	
386.52	6767.16	515.67	6767.25	544.79	6765.36	550.45	6764.87	554.33	6765.69	
563.81	6766.35	622.42	6767.26	768.16	6768.56	798.43	6768.71	805.82	6767.69	
1017.36	6769.04	1199.2	6770.07	1227.44	6768.21	1229.01	6768.11	1248.06	6767.33	
1263.09	6766.29	1265.67	6766.11	1273.19	6765.81	1282.99	6766.33	1283.18	6766.33	
1285.12	6766.44	1285.2	6766.45	1319.12	6769.76	1418.98	6770.25	1509.56	6770.83	
1554.34	6771.14	1572.65	6773.17	1729.12	6774.98	1732.94	6775	1749.08	6778.83	

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	1199.2	1319.12		136.67	400.73	160		.1	.3
Ineffective Flow		num=	2						
Sta L	Sta R	Elev	Permanent						
-50436.6667		6775	F						
1319.12	1749.0867	69.764	F						

RIVER: Walton Creek
REACH: lower RS: 6775.68*

Description:										
Station Elevation		Data	num=		35					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
-50	6770	-14.99	6767.82	13.62	6767.4	296.03	6768.25	303.97	6767.11	
309.54	6766.3	415.91	6767.05	439.89	6766.27	444.55	6766.05	447.75	6766.48	
455.56	6766.86	503.83	6767.64	623.87	6769.09	648.8	6769.17	654.88	6768.65	
829.12	6769.32	978.89	6769.64	997.14	6767.44	998.16	6767.32	1010.47	6766.78	
1020.19	6766.14	1021.86	6766.03	1026.72	6765.82	1037.48	6766.44	1037.69	6766.45	
1039.82	6766.58	1039.9	6766.59	1077.15	6769.56	1201.67	6769.98	1314.64	6770.64	
1370.47	6770.98	1393.31	6774.91	1588.42	6777.54	1593.19	6777.55	1613.31	6779.49	

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	978.89	1077.15		136.67	400.73	160		.1	.3
Ineffective Flow		num=	2						
Sta L	Sta R	Elev	Permanent						
-50443.3333		6775	F						
1077.15	1613.31	6769.557	F						

RIVER: Walton Creek
REACH: lower RS: 6375

Description:											
Station		Elevation		Data	num=		18				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6768.9	0	6767.41	221.94	6768.36	232.55	6765.44	479.58	6769.62		
640.88	6769.6	758.58	6769.21	766.85	6766.67	767.31	6766.53	780.25	6765.84		
791.97	6766.56	792.2	6766.57	835.18	6769.35	984.37	6769.71	1186.6	6770.82		
1213.97	6776.66	1447.73	6780.1	1477.55	6780.16						

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.

[illegible]

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
-50	.05	494.55	.04	810.74	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	494.55	810.74		400 541.13	420		.1	.3
Ineffective Flow	num= 2							
Sta L	Sta R	Elev	Permanent					
-50	494.55	6765.7	F					
810.74	1121.73	6766.31	F					

CROSS SECTION

RIVER: Walton Creek
 REACH: lower RS: 4667

INPUT

Description:

Station Elevation Data			num= 21		
Sta	Elev	Sta	Elev	Sta	Elev
-570	6764.5	-510	6760	-485	6760
-310	6760	-260	6760	-255	6758
0	6755.71	128.34	6755.76	244.8	6754.93
272.35	6752.23	286.81	6754	287.12	6754.04
482.55	6761.83			301.35	6755.78
				464.24	6760.83

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
-570	.05	244.8	.04	301.35	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	244.8	301.35		471.14 453.16	390		.1	.3
Ineffective Flow	num= 1							
Sta L	Sta R	Elev	Permanent					
-570	-160	6761	F					

CROSS SECTION

RIVER: Walton Creek
 REACH: lower RS: 4214.

INPUT

Description:

Station Elevation Data			num= 31		
Sta	Elev	Sta	Elev	Sta	Elev
0	6759.84	30.91	6759.12	35.69	6758.18
47.57	6751.79	51.53	6751.6	56.48	6754.29
111.69	6751.38	117.7	6751.51	126.06	6754.71
214.89	6755.64	358.89	6755.23	476.88	6754.62
582.09	6755.37	582.66	6754.7	585.13	6751.78
615.74	6752.24	636.51	6754.06	731.02	6752.45
770	6762			740.03	6755.03
				751.82	6754.92

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	582.66	.04	636.51	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	582.66	636.51		241.37 327.94	324.85		.1	.3
Ineffective Flow	num= 1							
Sta L	Sta R	Elev	Permanent					
0	160	6761	F					

CROSS SECTION

RIVER: Walton Creek
 REACH: lower RS: 3886.

INPUT

Description:

Station Elevation Data									
num= 39									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.26	27.6	6762.5	32.09	6761.43	32.62	6761.42	33.24	6756.86
33.87	6756.8	40.73	6755.88	47.69	6755.41	52.4	6758.95	71.21	6758.05
88.74	6753.98	95.85	6754.18	114.13	6758.61	148.62	6760.79	173.13	6760.99
174.95	6760.91	484.37	6758.46	489.67	6755.83	495.1	6757.47	528.14	6755.7
569.81	6757.33	572.23	6758.7	675.73	6757.56	688.47	6755.41	703	6754.73
716.68	6753.29	725.3	6757.37	735.44	6758.8	742.32	6758.66	757.4	6759.13
760.3	6759.26	771.41	6761.67	776.73	6761.88	830.39	6761.6	899.44	6763.22
917.05	6763.02	931.22	6763.16	946.84	6763.55	961.56	6764.12		

Manning's n Values

num= 6									
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.05	27.6	.045	114.13	.05	484.37	.045	675.73	.04
735.44	.05								

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	675.73	735.44		400	246		.3	.5
Ineffective Flow	num= 1							
Sta L	Sta R	Elev	Permanent					
0	160	6762	F					

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 3639

INPUT

Description:

Station Elevation Data									
num= 8									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6759.5	30	6757.09	45	6753.57	63	6752.65	85	6753.58
124	6760.41	138	6760.29	188	6760.1				

Manning's n Values

num= 3					
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	30	.04	124	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	30	124		29	29		.3	.5

BRIDGE

RIVER: Walton Creek

REACH: lower RS: 3622

INPUT

Description:

Distance from Upstream XS = 12

Deck/Roadway Width = 10

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 8											
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi
0	6759.5				17	6760.41				26	6761.16
49	6762.82	6761.01			73	6763.55	6761.55			96	6762.88
120	6761.18	6759.3			138	6760.29					

Upstream Bridge Cross Section Data

Station Elevation Data									
num= 8									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6759.5	30	6757.09	45	6753.57	63	6752.65	85	6753.58
124	6760.41	138	6760.29	188	6760.1				

Manning's n Values

num= 3					
Sta	n Val	Sta	n Val	Sta	n Val

0	.05	30	.04	124	.05
Bank Sta: Left	Right	Coeff	Contr.	Expan.	
30	124		.3	.5	

Downstream Deck/Roadway Coordinates

num=	8				
Sta	Hi	Cord	Lo	Cord	
0	6759.5		17	6760.41	
49	6762.82	6761.01	73	6763.55	6761.55
120	6761.18	6759.3	138	6760.29	

Downstream Bridge Cross Section Data

Station	Elevation	Data	num=	10		
Sta	Elev	Sta	Elev	Sta	Elev	Sta
0	6759.5	24	6760.14	43	6753.72	55
94	6754.82	125	6760.24	138	6760.29	148
						188

Manning's n Values

num=	3		
Sta	n Val	Sta	n Val
0	.05	24	.04
		125	.05

Bank Sta: Left	Right	Coeff	Contr.	Expan.
24	125		.3	.5

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy
Selected Low Flow Methods = Energy

High Flow Method

Energy Only

Additional Bridge Parameters

Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

BRIDGE OUTPUT Profile #100year

E.G. US. (ft)	6759.44	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6759.08	E.G. Elev (ft)	6759.40	6759.35
Q Total (cfs)	1883.00	W.S. Elev (ft)	6759.02	6758.88
Q Bridge (cfs)	1883.00	Crit W.S. (ft)	6756.80	6757.17
Q Weir (cfs)		Max Chl Dpth (ft)	6.37	5.55
Weir Sta Lft (ft)		Vel Total (ft/s)	4.91	5.46
Weir Sta Rgt (ft)		Flow Area (sq ft)	383.16	344.80
Weir Submerg		Froude # Chl	0.35	0.49
Weir Max Depth (ft)		Specif Force (cu ft)	1258.38	1109.48
Min El Weir Flow (ft)	6759.51	Hydr Depth (ft)	4.25	3.85
Min El Prs (ft)	6761.55	W.P. Total (ft)	92.60	90.77
Delta EG (ft)	0.11	Conv. Total (cfs)	37324.5	31183.2
Delta WS (ft)	0.23	Top Width (ft)	90.06	89.53
BR Open Area (sq ft)	514.49	Frctn Loss (ft)	0.03	0.03
BR Open Vel (ft/s)	5.46	C & E Loss (ft)	0.02	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	0.66	0.86
BR Sel Method	Energy only	Power Total (lb/ft s)	3.23	4.72

BRIDGE OUTPUT Profile #fldway#1

E.G. US. (ft)	6760.12	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6759.85	E.G. Elev (ft)	6760.10	6760.07
Q Total (cfs)	1883.00	W.S. Elev (ft)	6759.82	6759.77
Q Bridge (cfs)	1883.00	Crit W.S. (ft)	6756.80	6757.17
Q Weir (cfs)		Max Chl Dpth (ft)	7.17	6.44
Weir Sta Lft (ft)		Vel Total (ft/s)	4.23	4.44
Weir Sta Rgt (ft)		Flow Area (sq ft)	445.15	423.74
Weir Submerg		Froude # Chl	0.28	0.31
Weir Max Depth (ft)		Specif Force (cu ft)	1540.32	1389.71
Min El Weir Flow (ft)	6760.99	Hydr Depth (ft)	5.60	5.22
Min El Prs (ft)	6761.55	W.P. Total (ft)	98.07	107.04
Delta EG (ft)	0.07	Conv. Total (cfs)	45333.3	39391.2
Delta WS (ft)	0.10	Top Width (ft)	79.54	81.15
BR Open Area (sq ft)	514.49	Frctn Loss (ft)	0.02	0.01
BR Open Vel (ft/s)	4.44	C & E Loss (ft)	0.01	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	0.49	0.56
BR Sel Method	Energy only	Power Total (lb/ft s)	2.07	2.51

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 3609

INPUT

Description:

Station Elevation Data		num=	10						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6759.5	24	6760.14	43	6753.72	55	6753.33	71	6753.62
94	6754.82	125	6760.24	138	6760.29	148	6760.03	188	6760.1

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	24	.04	125	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	24	125		155 230	265	.3	.5

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 3379

INPUT

Description:

Station Elevation Data		num=	19						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
195	6757.9	220	6751.3	500	6751.3	526.31	6757.68	540.27	6757.51
608.71	6756.34	643.3	6755.83	650.36	6753.44	652.78	6752.63	672.64	6752.32
690.41	6753.19	690.65	6753.29	706.07	6759.8	733.58	6764.29	736.74	6764.64
760.78	6764.35	805.54	6765.34	806.36	6765.6	822.2	6766.03		

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
195	.05	643.3	.04	706.07	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	643.3	706.07		315 343.25	350	.1	.3

Ineffective Flow		num=	1	
Sta L	Sta R	Elev	Permanent	F
195	525	6758.5		

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 3035.

INPUT

Description:

Station Elevation Data		num= 29		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
200	6757.85	210	6751.5	570	6751.5	593.85	6756.36	606.59	6756.43		
732.89	6753.46	737.63	6754.47	744.84	6755.31	759.69	6753.51	773.27	6752.41		
774.08	6752.36	786.67	6751.55	797.57	6752.22	798.51	6752.28	806.25	6756.12		
824.93	6755.35	850.47	6758.23	857.31	6760.67	883.7	6760.92	891.88	6763.58		
897.95	6764.41	923.07	6764.3	925.78	6763.89	931.05	6762.01	936.44	6762.1		
972.18	6771.59	1011.22	6767.87	1013.25	6767.99	1021.22	6767.99				

Manning's n Values

num= 3		Sta n Val		Sta n Val		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
200	.05	737.63	.04	806.25	.05		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	737.63	806.25		170	370		.1	.3

Ineffective Flow		num= 1		Sta L Sta R Elev		Permanent	
Sta L	Sta R	Elev	Permanent	Sta L	Sta R	Elev	Permanent
200	600	6758.5	F				

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 2665

INPUT

Description:

Station Elevation Data		num= 20		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-407	6758.88	-400	6758	-240	6752.2	-130	6752.2	-120	6757.5		
0	6756.32	7	6755.66	17	6751.67	21	6751.9	32	6752.07		
94	6750.6	117	6747.74	127	6747.3	140	6747.83	147	6751.5		
197	6753.29	205	6754.98	214	6755.63	355	6760	445	6764		

Manning's n Values

num= 3		Sta n Val		Sta n Val		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-407	.05	94	.04	147	.05		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	94	147		30	126		.3	.5

Ineffective Flow		num= 1		Sta L Sta R Elev		Permanent	
Sta L	Sta R	Elev	Permanent	Sta L	Sta R	Elev	Permanent
-407	-120	6758	T				

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 2539

INPUT

Description:

Station Elevation Data		num= 20		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-407	6759.95	-315	6758	-290	6752.2	-80	6752.2	-70	6757.5		
0	6755.08	62	6754.03	98	6755.95	152	6749.4	162	6747.22		
179	6747.21	198	6747.36	210	6750.64	285	6756.05	322	6754.38		
332	6756.17	338	6757.44	400	6755.18	460	6755.27	640	6758		

Manning's n Values

num= 3		Sta n Val		Sta n Val		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-407	.05	98	.04	285	.05		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	98	285		22	22		.3	.5

Ineffective Flow		num= 1		Sta L Sta R Elev		Permanent	
Sta L	Sta R	Elev	Permanent	Sta L	Sta R	Elev	Permanent
-407	-70	6758	T				

BRIDGE

RIVER: Walton Creek

REACH: lower RS: 2528

INPUT

Description:

Distance from Upstream XS = 8

Deck/Roadway Width = 9

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 5

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
98	6756.08	6755.08	150	6757.36	6756.36	183	6757.83	6756.83						
240	6757.27	6756.27	285	6756.04	6755.04									

Upstream Bridge Cross Section Data

Station Elevation Data num= 20

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-407	6759.95	-315	6758	-290	6752.2	-80	6752.2	-70	6757.5
0	6755.08	62	6754.03	98	6755.95	152	6749.4	162	6747.22
179	6747.21	198	6747.36	210	6750.64	285	6756.05	322	6754.38
332	6756.17	338	6757.44	400	6755.18	460	6755.27	640	6758

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-407	.05	98	.04	285	.05

Bank Sta: Left Right Coeff Contr. Expan.

98 285 .3 .5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-407	-70	6758	T

Downstream Deck/Roadway Coordinates

num= 5

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
98	6756.08	6755.08	150	6757.36	6756.36	183	6757.83	6756.83						
240	6757.27	6756.27	285	6756.04	6755.04									

Downstream Bridge Cross Section Data

Station Elevation Data num= 22

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-344	6759.75	-300	6758	-270	6751.6	-80	6751.6	-70	6757.9
0	6755.08	62	6754.03	98	6755.94	145	6750.8	167	6747.6
180	6747.41	201	6747.69	212	6751.44	239	6756.2	285	6756.04
322	6754.38	332	6756.17	338	6756.75	400	6757.44	435	6755.18
460	6755.27	640	6758						

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-344	.05	98	.04	285	.05

Bank Sta: Left Right Coeff Contr. Expan.

98 285 .3 .5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-344	-70	6758	T

Upstream Embankment side slope = 0 horiz. to 1.0 vertical

Downstream Embankment side slope = 0 horiz. to 1.0 vertical

Maximum allowable submergence for weir flow = .95

Elevation at which weir flow begins =

Energy head used in spillway design =

Spillway height used in design =

Weir crest shape = Broad Crested

Number of Piers = 3

Pier Data

Pier Station	Upstream=	147	Downstream=	147
Upstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	
Downstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	

Pier Data

Pier Station	Upstream=	147	Downstream=	
Upstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	
Downstream	num=	0		

Pier Data

Pier Station	Upstream=	234	Downstream=	234
Upstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	
Downstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

BRIDGE OUTPUT Profile #100year

E.G. US. (ft)	6756.13	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6756.07	E.G. Elev (ft)	6756.13	6756.11
Q Total (cfs)	1984.00	W.S. Elev (ft)	6756.06	6756.00
Q Bridge (cfs)	1785.26	Crit W.S. (ft)	6751.26	6751.51
Q Weir (cfs)		Max Chl Dpth (ft)	8.85	8.59
Weir Sta Lft (ft)		Vel Total (ft/s)	1.83	2.25
Weir Sta Rgt (ft)		Flow Area (sq ft)	1082.14	881.37
Weir Submerg		Froude # Chl	0.12	0.16
Weir Max Depth (ft)		Specif Force (cu ft)	3001.11	2529.73
Min El Weir Flow (ft)	6754.04	Hydr Depth (ft)	2.60	2.51
Min El Prs (ft)	6756.83	W.P. Total (ft)	558.27	427.15
Delta EG (ft)	0.03	Conv. Total (cfs)	74420.2	66443.1
Delta WS (ft)	0.07	Top Width (ft)	649.59	568.52
BR Open Area (sq ft)	717.62	Frctn Loss (ft)	0.01	0.00
BR Open Vel (ft/s)	2.68	C & E Loss (ft)	0.01	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	0.09	0.11
BR Sel Method	Energy only	Power Total (lb/ft s)	0.16	0.26

BRIDGE OUTPUT Profile #fldway#1

E.G. US. (ft)	6756.84	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6756.78	E.G. Elev (ft)	6756.83	6756.81
Q Total (cfs)	1984.00	W.S. Elev (ft)	6756.75	6756.69
Q Bridge (cfs)	1973.07	Crit W.S. (ft)	6751.26	6751.51
Q Weir (cfs)		Max Chl Dpth (ft)	9.54	9.28
Weir Sta Lft (ft)		Vel Total (ft/s)	2.25	2.71
Weir Sta Rgt (ft)		Flow Area (sq ft)	882.49	731.25

Weir Submerg		Froude # Ch1	0.13	0.16
Weir Max Depth (ft)		Specif Force (cu ft)	3450.37	2894.23
Min El Weir Flow (ft)	6756.05	Hydr Depth (ft)	13.18	10.07
Min El Prs (ft)	6756.83	W.P. Total (ft)	397.08	311.03
Delta EG (ft)	0.05	Conv. Total (cfs)	55830.0	48029.7
Delta WS (ft)	0.08	Top Width (ft)	66.98	72.61
BR Open Area (sq ft)	717.62	Frctn Loss (ft)	0.01	0.00
BR Open Vel (ft/s)	2.76	C & E Loss (ft)	0.01	0.01
BR Sluice Coef		Shear Total (lb/sq ft)	0.18	0.25
BR Sel Method	Energy only	Power Total (lb/ft s)	0.39	0.68

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than

1.4. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 2517

INPUT

Description:

Station Elevation Data		num=	22						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-344	6759.75	-300	6758	-270	6751.6	-80	6751.6	-70	6757.9
0	6755.08	62	6754.03	98	6755.94	145	6750.8	167	6747.6
180	6747.41	201	6747.69	212	6751.44	239	6756.2	285	6756.04
322	6754.38	332	6756.17	338	6756.75	400	6757.44	435	6755.18
460	6755.27	640	6758						

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
-344	.05	98	.04
		285	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	98	285		265	222	170	
						.3	.5

Ineffective Flow		num=	1
Sta L	Sta R	Elev	Permanent
-344	-70	6758	T

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 2294

INPUT

Description:

Station Elevation Data		num=	29						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-210	6760	0	6755.47	95.29	6753.41	174.22	6755.79	222.47	6754.76
225.52	6754.19	253.52	6749.04	269.14	6750.3	274	6747.12	276.65	6746.84
289.32	6745.48	312.64	6747.23	314.03	6747.33	318.12	6749.16	346.81	6750.1
350.42	6750.95	363.73	6751.05	377.02	6749.58	382.26	6751.01	384.46	6751.19
394.49	6751.37	396.11	6751.33	399.69	6749.92	407.5	6749.83	412.66	6752.94
553.83	6754.89	582.54	6755.05	595.01	6754.5	749.73	6757.06		

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
-210	.05	269.14	.04
		363.73	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	269.14	363.73		202	190.89	188.08	
						.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 2103

INPUT

Description:

Station		Elevation Data		num=		18					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-220	6760	0	6758.76	6.7	6758.04	17.31	6754.91	46.95	6754.02		
52.79	6750.72	53.52	6750.31	66.24	6749.76	97.57	6750.55	98.85	6750.8		
119.31	6754.8	149.4	6754.56	150.71	6754.67	160.43	6754.79	162.49	6754.43		
165.63	6753.15	168.21	6753.06	178.06	6757.6						

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
-220	.05	46.95	.04	119.31	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	46.95	119.31		270 314.13	300		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 1789

INPUT

Description:

Station		Elevation Data		num=		15					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6756.5	11.05	6756.08	28.1	6747.58	31.07	6747.82	40	6751.95		
162.69	6750.37	168.16	6747.18	169.26	6746.54	189.5	6743.52	211.61	6746.54		
212.86	6746.68	241.37	6749.85	260.81	6754.32	270.94	6754.46	298.06	6759.93		

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	162.69	.04	241.37	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	162.69	241.37		120 150	180		.1	.3

Ineffective Flow		num=		1	
Sta L	Sta R	Elev	Permanent		
0	113	6756	F		

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 1640.

INPUT

Description:

Station		Elevation Data		num=		12					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6756.84	42.34	6747.78	105.96	6749.03	126.19	6746.75	127.43	6746.61		
148.94	6745.51	166.79	6746.73	167.2	6746.92	175.31	6750.74	179.87	6751.83		
189.71	6752.12	210.32	6756.37								

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	105.96	.04	179.87	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	105.96	179.87		30 63	80		.3	.5

Ineffective Flow		num=		1	
Sta L	Sta R	Elev	Permanent		
0	86	6757.5	F		

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 1578

INPUT

Description:

Station Elevation Data		num=		16					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6760	30	6756	200	6751.95	309	6752	385	6752
385	6747.66	403.9	6745.89	406.6	6745.6	425.3	6745.19	426.9	6744.57
434	6745.25	434.9	6747.93	435.6	6746.67	446	6747.13	446	6756
685	6758								

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	385	.04	446	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	385	446		122	122		.3	.5

Ineffective Flow		num=		2	
Sta L	Sta R	Elev	Permanent		
0	385	6757.5	F		
446	685	6757.5	F		

BRIDGE

RIVER: Walton Creek

REACH: lower RS: 1516

INPUT

Description: US40

Distance from Upstream XS = 16

Deck/Roadway Width = 94

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num=		5							
Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	
0	6760		386	6757.64	6754.64	404	6757.53	6754.53	
446.5	6757.78	6754.78	685	6761.3					

Upstream Bridge Cross Section Data

Station Elevation Data		num=		16					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6760	30	6756	200	6751.95	309	6752	385	6752
385	6747.66	403.9	6745.89	406.6	6745.6	425.3	6745.19	426.9	6744.57
434	6745.25	434.9	6747.93	435.6	6746.67	446	6747.13	446	6756
685	6758								

Manning's n Values		num=		4	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	385	.03	425.3	.015
				446	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	385	446		.3	.5

Ineffective Flow		num=		2	
Sta L	Sta R	Elev	Permanent		
0	385	6757.5	F		
446	685	6757.5	F		

Downstream Deck/Roadway Coordinates

num=		5							
Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	
10	6760		386	6757.64	6754.64	414	6757.53	6754.53	
446.5	6757.78	6754.78	688	6761.3					

Downstream Bridge Cross Section Data

Station Elevation Data		num=		17					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10	6758	47	6754	385	6752	387	6746.2	405.9	6745.22
406.3	6745.25	407.4	6745.41	407.9	6745.42	426.9	6744.9	427.7	6744.9
428.7	6745.85	435.8	6746.23	436.2	6747.84	436.9	6745.97	448	6746.48
448	6752	688	6753.82						

Manning's n Values		num=		4	

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
10	.05	385	.03	426.9	.015	448	.05

Bank Sta: Left Right Coeff Contr. Expan.

	385	448	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
10	385	6757.5	F
448	688	6757.5	F

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data

Pier Station	Upstream=	405	Downstream=	405

Upstream	num=	2	
Width	Elev	Width	Elev
2	6700	2	6800

Downstream	num=	2	
Width	Elev	Width	Elev
2	6700	2	6800

Pier Data

Pier Station	Upstream=	426	Downstream=	426

Upstream	num=	2	
Width	Elev	Width	Elev
2	6700	2	6800

Downstream	num=	2	
Width	Elev	Width	Elev
2	6700	2	6800

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Pressure and Weir flow
Submerged Inlet Cd =
Submerged Inlet + Outlet Cd = .8
Max Low Cord =

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

BRIDGE OUTPUT Profile #100year

E.G. US. (ft)	6755.46	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6755.26	E.G. Elev (ft)	6755.46	6755.22
Q Total (cfs)	1984.00	W.S. Elev (ft)	6754.78	6754.78
Q Bridge (cfs)	1984.00	Crit W.S. (ft)	6749.44	6749.11
Q Weir (cfs)		Max Chl Dpth (ft)	10.20	9.88
Weir Sta Lft (ft)		Vel Total (ft/s)	4.13	3.93
Weir Sta Rgt (ft)		Flow Area (sq ft)	479.89	504.88
Weir Submerg		Froude # Chl	0.23	0.22
Weir Max Depth (ft)		Specif Force (cu ft)	2393.86	2577.32
Min El Weir Flow (ft)	6757.54	Hydr Depth (ft)		
Min El Prs (ft)	6754.78	W.P. Total (ft)	166.92	170.25
Delta EG (ft)	0.24	Conv. Total (cfs)	63988.1	68313.8

Delta WS (ft)	0.22	Top Width (ft)		
BR Open Area (sq ft)	479.89	Frctn Loss (ft)		
BR Open Vel (ft/s)	4.13	C & E Loss (ft)		
BR Sluice Coef		Shear Total (lb/sq ft)	0.17	0.16
BR Sel Method	Press Only	Power Total (lb/ft s)	0.71	0.61

Note: The downstream water surface is above the minimum elevation required for orifice flow. The orifice flow equation was used for pressure flow.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

BRIDGE OUTPUT Profile #fldway#1

E.G. US. (ft)	6756.30	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6756.14	E.G. Elev (ft)	6756.30	6756.04
Q Total (cfs)	1984.00	W.S. Elev (ft)	6754.78	6754.78
Q Bridge (cfs)	1984.00	Crit W.S. (ft)	6749.49	6749.11
Q Weir (cfs)		Max Chl Dpth (ft)	10.20	9.88
Weir Sta Lft (ft)		Vel Total (ft/s)	4.13	3.93
Weir Sta Rgt (ft)		Flow Area (sq ft)	479.89	504.88
Weir Submerg		Froude # Chl	0.23	0.22
Weir Max Depth (ft)		Specif Force (cu ft)	2393.86	2577.32
Min El Weir Flow (ft)	6757.54	Hydr Depth (ft)		
Min El Prs (ft)	6754.78	W.P. Total (ft)	166.92	170.25
Delta EG (ft)	0.26	Conv. Total (cfs)	63988.1	68313.8
Delta WS (ft)	0.25	Top Width (ft)		
BR Open Area (sq ft)	479.89	Frctn Loss (ft)		
BR Open Vel (ft/s)	4.13	C & E Loss (ft)		
BR Sluice Coef		Shear Total (lb/sq ft)	0.17	0.16
BR Sel Method	Press Only	Power Total (lb/ft s)	0.71	0.61

Note: The downstream water surface is above the minimum elevation required for orifice flow. The orifice flow equation was used for pressure flow.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 1455

INPUT

Description:

Station Elevation Data		num= 17							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10	6758	47	6754	385	6752	387	6746.2	405.9	6745.22
406.3	6745.25	407.4	6745.41	407.9	6745.42	426.9	6744.9	427.7	6744.9
428.7	6745.85	435.8	6746.23	436.2	6747.84	436.9	6745.97	448	6746.48
448	6752	688	6753.82						

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
10	.05	385	.04	448	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	385	448		101	101	.3	.5

Ineffective Flow		num= 2			
Sta L	Sta R	Elev	Permanent		
10	385	6757.5	F		
448	688	6757.5	F		

CROSS SECTION

RIVER: Walton Creek

REACH: lower

RS: 1353

INPUT

Description:

Station Elevation Data		num=		14					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6756.92	65	6757.14	146	6754.64	163	6748.52	182	6748.07
205	6748.61	220	6752.81	275	6750.48	280	6749.77	287	6747.07
332	6754.89	336	6755.33	341	6755.88	356	6756.44		

Manning's n Values

num=		3	
Sta	n Val	Sta	n Val
0	.05	146	.04
		220	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	146	220		28	28	28		.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	50	6757.5	F
245	356	6757.5	F

BRIDGE

RIVER: Walton Creek

REACH: lower

RS: 1340

INPUT

Description:

Distance from Upstream XS = 8

Deck/Roadway Width = 10

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num=		8												
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
65	6757.14				124	6758.71	6756.78			158	6759.72	6757.63		
182	6759.9	6757.88			206	6759.68	6757.69			241	6758.74	6756.81		
275	6750.48				353	6755.88								

Upstream Bridge Cross Section Data

Station Elevation Data		num=		14					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6756.92	65	6757.14	146	6754.64	163	6748.52	182	6748.07
205	6748.61	220	6752.81	275	6750.48	280	6749.77	287	6747.07
332	6754.89	336	6755.33	341	6755.88	356	6756.44		

Manning's n Values

num=		3	
Sta	n Val	Sta	n Val
0	.05	146	.04
		220	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	146	220		.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	50	6757.5	F
245	356	6757.5	F

Downstream Deck/Roadway Coordinates

num=		8												
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
65	6757.14				124	6758.71	6756.78			160	6759.72	6757.63		
184	6759.9	6757.88			207	6759.68	6757.69			243	6758.74	6756.81		
275	6750.48				353	6755.88								

Downstream Bridge Cross Section Data

Station Elevation Data		num=		14					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6756.92	65	6757.14	146	6752.51	168	6748.54	187	6747.83

203 6746.96	220 6751.99	275 6750.48	280 6749.77	287 6747.07
332 6754.89	336 6755.33	341 6755.88	356 6756.44	

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	146	.04	220	.05

Bank Sta: Left Right Coeff Contr. Expan.

	146	220	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	33	6757.5	F
250	356	6757.5	F

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

BRIDGE OUTPUT Profile #100year

E.G. US. (ft)	6755.08	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6754.75	E.G. Elev (ft)	6755.06	6754.99
Q Total (cfs)	1984.00	W.S. Elev (ft)	6754.70	6754.73
Q Bridge (cfs)	1984.00	Crit W.S. (ft)	6752.15	6751.81
Q Weir (cfs)		Max Chl Dpth (ft)	6.63	7.77
Weir Sta Lft (ft)		Vel Total (ft/s)	4.62	3.75
Weir Sta Rgt (ft)		Flow Area (sq ft)	429.69	529.38
Weir Submerg		Froude # Chl	0.33	0.26
Weir Max Depth (ft)		Specif Force (cu ft)	1446.72	1685.44
Min El Weir Flow (ft)	6757.10	Hydr Depth (ft)	4.44	4.45
Min El Prs (ft)	6757.88	W.P. Total (ft)	101.31	124.55
Delta EG (ft)	0.12	Conv. Total (cfs)	43872.1	55308.2
Delta WS (ft)	0.01	Top Width (ft)	96.85	119.02
BR Open Area (sq ft)	745.59	Frctn Loss (ft)	0.02	0.01
BR Open Vel (ft/s)	4.62	C & E Loss (ft)	0.05	0.01
BR Sluice Coef		Shear Total (lb/sq ft)	0.54	0.34
BR Sel Method	Energy only	Power Total (lb/ft s)	2.50	1.28

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.
Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

BRIDGE OUTPUT Profile #fldway#1

E.G. US. (ft)	6755.91	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	6755.61	E.G. Elev (ft)	6755.90	6755.84
Q Total (cfs)	1984.00	W.S. Elev (ft)	6755.60	6755.64
Q Bridge (cfs)	1984.00	Crit W.S. (ft)	6752.14	6751.81
Q Weir (cfs)		Max Chl Dpth (ft)	7.53	8.68

Weir Sta Lft (ft)		Vel Total (ft/s)	4.44	3.41
Weir Sta Rgt (ft)		Flow Area (sq ft)	447.26	582.18
Weir Submerg		Froude # Chl	0.32	0.21
Weir Max Depth (ft)		Specif Force (cu ft)	1740.09	2115.32
Min El Weir Flow (ft)	6759.31	Hydr Depth (ft)	6.04	6.00
Min El Prs (ft)	6757.88	W.P. Total (ft)	75.66	102.43
Delta EG (ft)	0.09	Conv. Total (cfs)	54321.3	69805.6
Delta WS (ft)	-0.03	Top Width (ft)	74.00	97.00
BR Open Area (sq ft)	600.98	Frctn Loss (ft)	0.01	0.01
BR Open Vel (ft/s)	4.44	C & E Loss (ft)	0.05	0.01
BR Sluice Coef		Shear Total (lb/sq ft)	0.49	0.29
BR Sel Method	Energy only	Power Total (lb/ft s)	2.18	0.98

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 1326

INPUT

Description:

Station Elevation Data		num=	14						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6756.92	65	6757.14	146	6752.51	168	6748.54	187	6747.83
203	6746.96	220	6751.99	275	6750.48	280	6749.77	287	6747.07
332	6754.89	336	6755.33	341	6755.88	356	6756.44		

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	146	.04	220	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	146	220		98	98	98		.3	.5

Ineffective Flow		num=	2	
Sta L	Sta R	Elev	Permanent	
0	33	6757.5	F	
250	356	6757.5	F	

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 1228.

INPUT

Description:

Station Elevation Data		num=	10						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6756.51	94.23	6753.69	123.47	6750.5	147.53	6751.58	152.73	6748.21
174.99	6748.34	202.56	6748.39	210.79	6751.9	240.74	6754.28	419	6758.35

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	147.53	.04	210.79	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	147.53	210.79		374.51	335.48	267.02		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 893

INPUT

Description:

Station Elevation Data		num=		13					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6755.69	93.55	6753.28	119.27	6748.48	137.62	6747.8	152.2	6748.51
171.43	6752.94	287	6751.71	307	6751.1	314	6754.49	336	6754.23
346	6757.71	533	6754.58	578	6755.66				

Manning's n Values

num=		3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	93.55	.04	171.43	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	93.55	171.43		141.98	79.32	23.74	.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 813

INPUT

Description:

Station Elevation Data		num=		10					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6756.94	72	6754.67	89	6749.07	124	6748.73	129	6751.12
292	6752.28	304	6751.18	325	6754.65	577	6754.38	637	6756

Manning's n Values

num=		3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	72	.04	129	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	72	129		0	0	0	.1	.3

SUMMARY OF MANNING'S N VALUES

River:Walton Creek

Reach	River Sta.	n1	n2	n3	n4	n5	n6
main upper	13645	.06	.04	.06			
main upper	13145	.06	.04	.06			
split	12570	.06	.045	.06			
split	12514.2*	.058	.044	.056	.06	.06	
split	12458.4*	.056	.043	.052	.06	.06	
split	12402.6*	.054	.042	.048	.06	.06	
split	12346.8*	.052	.041	.044	.06	.06	
split	12291	.05	.04	.06			
split	12250	Bridge					
split	12202	.05	.04	.06			
split	12112	.06	.04	.06			
main split	12570.	.06	.04	.06			
main split	12291	.06	.04	.06			
main split	12250	Bridge					
main split	12202	.06	.04	.06			
main split	12112	.06	.04	.06			
lower	11692	.06	.04	.06			
lower	11280.	.06	.04	.06			
lower	10714	.06	.04	.06			
lower	10089	.06	.04	.06			
lower	9471	.06	.04	.06			
lower	9027.	.06	.04	.06			
lower	8734	.06	.04	.06			
lower	8402.*	.06	.04	.06			
lower	8070.	.06	.04	.06			
lower	7577.	.06	.04	.06			
lower	7176.41*	.06	.04	.06			
lower	6775.68*	.06	.04	.06			
lower	6375	.06	.04	.06			

lower	5892	.05	.04	.05			
lower	5550.12*	.05	.04	.05			
lower	5209	.05	.04	.05			
lower	4667	.05	.04	.05			
lower	4214.	.05	.04	.05			
lower	3886.	.05	.045	.05	.045	.04	.05
lower	3639	.05	.04	.05			
lower	3622	Bridge					
lower	3609	.05	.04	.05			
lower	3379	.05	.04	.05			
lower	3035.	.05	.04	.05			
lower	2665	.05	.04	.05			
lower	2539	.05	.04	.05			
lower	2528	Bridge					
lower	2517	.05	.04	.05			
lower	2294	.05	.04	.05			
lower	2103	.05	.04	.05			
lower	1789	.05	.04	.05			
lower	1640.	.05	.04	.05			
lower	1578	.05	.04	.05			
lower	1516	Bridge					
lower	1455	.05	.04	.05			
lower	1353	.05	.04	.05			
lower	1340	Bridge					
lower	1326	.05	.04	.05			
lower	1228.	.05	.04	.05			
lower	893	.05	.04	.05			
lower	813	.05	.04	.05			

SUMMARY OF REACH LENGTHS

River: Walton Creek

Reach	River Sta.	Left	Channel	Right
main upper	13645	500	500	500
main upper	13145	0	0	0
split	12570	88	85.4	68
split	12514.2*	88	85.4	68
split	12458.4*	88	85.4	68
split	12402.6*	88	85.4	68
split	12346.8*	88	85.4	68
split	12291	88	88	88
split	12250	Bridge		
split	12202	85	85	85
split	12112	0	0	0
main split	12570.	270	270	270
main split	12291	88	88	88
main split	12250	Bridge		
main split	12202	85	85	85
main split	12112	0	0	0
lower	11692	420	411.17	390.88
lower	11280.	570	566.57	485.84
lower	10714	505.72	625.08	497.71
lower	10089	498.86	617.68	510
lower	9471	313.68	444.1	280.09
lower	9027.	285.55	293.44	280.09
lower	8734	275	331.69	275
lower	8402.*	275	331.69	275
lower	8070.	335	493.05	345.36
lower	7577.	136.67	400.73	160
lower	7176.41*	136.67	400.73	160
lower	6775.68*	136.67	400.73	160
lower	6375	413.92	483.2	470.84
lower	5892	149.38	341.62	134.38
lower	5550.12*	149.38	341.62	134.38
lower	5209	400	541.13	420
lower	4667	471.14	453.16	390

lower	4214.	241.37	327.94	324.85
lower	3886.	400	246	160
lower	3639	29	29	29
lower	3622	Bridge		
lower	3609	155	230	265
lower	3379	315	343.25	350
lower	3035.	170	370	450
lower	2665	30	126	165
lower	2539	22	22	22
lower	2528	Bridge		
lower	2517	265	222	170
lower	2294	202	190.89	188.08
lower	2103	270	314.13	300
lower	1789	120	150	180
lower	1640.	30	63	80
lower	1578	122	122	122
lower	1516	Bridge		
lower	1455	101	101	101
lower	1353	28	28	28
lower	1340	Bridge		
lower	1326	98	98	98
lower	1228.	374.51	335.48	267.02
lower	893	141.98	79.32	23.74
lower	813	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Walton Creek

Reach	River Sta.	Contr.	Expan.
main upper	13645	.1	.3
main upper	13145	.1	.3
split	12570	.1	.3
split	12514.2*	.1	.3
split	12458.4*	.1	.3
split	12402.6*	.1	.3
split	12346.8*	.3	.5
split	12291	.3	.5
split	12250	Bridge	
split	12202	.3	.5
split	12112	.1	.3
main split	12570.	.3	.5
main split	12291	.3	.5
main split	12250	Bridge	
main split	12202	.3	.5
main split	12112	.1	.3
lower	11692	.1	.3
lower	11280.	.1	.3
lower	10714	.1	.3
lower	10089	.1	.3
lower	9471	.1	.3
lower	9027.	.1	.3
lower	8734	.1	.3
lower	8402.*	.1	.3
lower	8070.	.1	.3
lower	7577.	.1	.3
lower	7176.41*	.1	.3
lower	6775.68*	.1	.3
lower	6375	.1	.3
lower	5892	.1	.3
lower	5550.12*	.1	.3
lower	5209	.1	.3
lower	4667	.1	.3
lower	4214.	.1	.3
lower	3886.	.3	.5
lower	3639	.3	.5
lower	3622	Bridge	

lower	3609	.3	.5
lower	3379	.1	.3
lower	3035.	.1	.3
lower	2665	.3	.5
lower	2539	.3	.5
lower	2528	Bridge	
lower	2517	.3	.5
lower	2294	.1	.3
lower	2103	.1	.3
lower	1789	.1	.3
lower	1640.	.3	.5
lower	1578	.3	.5
lower	1516	Bridge	
lower	1455	.3	.5
lower	1353	.3	.5
lower	1340	Bridge	
lower	1326	.3	.5
lower	1228.	.1	.3
lower	893	.1	.3
lower	813	.1	.3

Profile Output Table - Standard Table 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
main upper	13645	100year	1883.00	6817.46	6824.21		6824.31	0.000941	3.06	1129.13	612.13	0.26
main upper	13645	fldway#1	1883.00	6817.46	6824.74		6824.94	0.001312	3.89	577.16	137.31	0.31
main upper	13145	100year	1883.00	6817.46	6822.35	6822.35	6823.10	0.011750	7.54	340.43	238.74	0.83
main upper	13145	fldway#1	1883.00	6817.46	6822.43	6822.43	6823.36	0.012850	8.03	276.94	151.99	0.87
split	12570	100year	647.13	6807.40	6810.35		6810.54	0.008160	4.15	221.82	220.28	0.56
split	12570	fldway#1	647.13	6807.40	6810.47		6810.68	0.007294	4.05	192.32	127.34	0.53
split	12514.2*	100year	647.13	6806.66	6809.64		6809.88	0.008174	4.43	202.44	206.43	0.58
split	12514.2*	fldway#1	647.13	6806.66	6809.80		6810.07	0.007530	4.43	165.65	99.39	0.56
split	12458.4*	100year	647.13	6805.92	6808.86		6809.18	0.008686	4.80	174.81	185.39	0.62
split	12458.4*	fldway#1	647.13	6805.92	6808.94		6809.35	0.009516	5.13	129.07	69.78	0.65
split	12402.6*	100year	647.13	6805.18	6808.45		6808.65	0.004264	3.85	219.39	203.24	0.46
split	12402.6*	fldway#1	647.13	6805.18	6808.48		6808.74	0.004911	4.16	162.75	80.22	0.49
split	12346.8*	100year	647.13	6804.44	6808.35		6808.44	0.001310	2.63	336.05	222.60	0.27
split	12346.8*	fldway#1	647.13	6804.44	6808.33		6808.47	0.001763	3.02	232.96	94.16	0.31
split	12291	100year	647.13	6803.70	6808.25	6805.85	6808.35	0.000819	2.50	258.48	226.31	0.23
split	12291	fldway#1	647.13	6803.70	6808.25	6805.85	6808.35	0.000819	2.50	258.48	102.00	0.23
split	12250		Bridge									
split	12202	100year	647.13	6803.70	6805.85	6805.85	6806.60	0.019622	6.90	93.72	60.95	0.98
split	12202	fldway#1	647.13	6803.70	6806.34	6805.86	6806.76	0.008448	5.19	124.57	65.91	0.67
split	12112	100year	647.13	6801.09	6806.03		6806.05	0.000282	1.12	575.61	236.60	0.13
split	12112	fldway#1	647.13	6801.09	6806.38		6806.46	0.000625	2.25	287.20	70.00	0.20
main split	12570.	100year	1235.87	6807.23	6809.85	6809.78	6810.56	0.018114	6.77	182.73	116.81	0.95
main split	12570.	fldway#1	1235.87	6807.23	6809.88	6809.78	6810.57	0.017243	6.65	185.83	115.94	0.93
main split	12291	100year	1235.87	6801.38	6807.83	6806.13	6808.42	0.004252	6.19	205.15	199.66	0.52
main split	12291	fldway#1	1235.87	6801.38	6807.86	6806.13	6808.46	0.004292	6.20	199.31	45.71	0.52
main split	12250		Bridge									
main split	12202	100year	1235.87	6801.65	6806.64	6805.67	6807.33	0.005710	6.74	192.16	168.14	0.61
main split	12202	fldway#1	1235.87	6801.65	6806.86	6805.65	6807.53	0.005456	6.56	188.37	47.00	0.58
main split	12112	100year	1235.87	6800.95	6806.64	6804.67	6806.85	0.001646	3.94	391.89	139.70	0.34
main split	12112	fldway#1	1235.87	6800.95	6806.76	6804.64	6807.07	0.002222	4.47	276.29	62.93	0.38
lower	11692	100year	1883.00	6799.38	6804.48	6804.48	6805.22	0.008492	7.52	380.77	310.65	0.73
lower	11692	fldway#1	1883.00	6799.38	6804.52	6804.52	6805.21	0.007951	7.31	389.12	287.09	0.71
lower	11280.	100year	1883.00	6791.13	6795.21	6794.38	6795.64	0.010690	6.24	424.23	308.27	0.76
lower	11280.	fldway#1	1883.00	6791.13	6795.49	6795.49	6796.24	0.012801	7.43	318.15	211.70	0.85
lower	10714	100year	1883.00	6783.81	6790.44	6789.96	6790.76	0.007344	4.51	417.70	244.97	0.61
lower	10714	fldway#1	1883.00	6783.81	6790.58	6789.96	6790.85	0.005643	4.16	452.68	245.79	0.54
lower	10089	100year	1883.00	6781.76	6785.55	6785.12	6785.95	0.008970	6.93	526.52	503.40	0.73
lower	10089	fldway#1	1883.00	6781.76	6786.01	6785.83	6786.61	0.008977	7.67	390.59	200.00	0.75
lower	9471	100year	1883.00	6775.50	6780.79	6780.45	6781.44	0.006754	6.89	360.45	201.79	0.64
lower	9471	fldway#1	1883.00	6775.50	6780.59	6780.45	6781.39	0.008718	7.54	320.14	198.04	0.73
lower	9027.	100year	1883.00	6773.68	6777.23	6776.70	6778.03	0.009131	7.18	268.26	997.08	0.74
lower	9027.	fldway#1	1883.00	6773.68	6777.65	6776.70	6778.24	0.005857	6.21	316.05	116.44	0.61
lower	8734	100year	1883.00	6771.83	6777.12	6775.11	6777.21	0.000889	2.47	891.48	1784.09	0.24
lower	8734	fldway#1	1883.00	6771.83	6777.66	6775.13	6777.72	0.000512	2.06	1073.60	349.31	0.18
lower	8402.*	100year	1883.00	6772.45	6776.76	6775.66	6776.85	0.001410	2.79	954.32	1642.93	0.29
lower	8402.*	fldway#1	1883.00	6772.45	6777.40	6775.54	6777.49	0.000973	2.64	871.55	320.36	0.25

lower	1455	100year	1984.00	6744.90	6755.04	6748.88	6755.22	0.000548	3.40	583.99	650.65	0.20
lower	1455	fldway#1	1984.00	6744.90	6755.89	6748.86	6756.04	0.000468	3.11	636.99	63.00	0.17
lower	1353	100year	1984.00	6748.07	6754.75	6752.17	6755.08	0.001899	4.78	446.10	188.60	0.37
lower	1353	fldway#1	1984.00	6748.07	6755.61	6752.10	6755.91	0.001414	4.43	448.13	74.00	0.32
lower	1340		Bridge									
lower	1326	100year	1984.00	6746.96	6754.73	6751.83	6754.97	0.001198	4.08	561.64	223.99	0.30
lower	1326	fldway#1	1984.00	6746.96	6755.64	6751.80	6755.82	0.000774	3.52	613.07	104.56	0.24
lower	1228.	100year	1984.00	6748.21	6754.59		6754.84	0.001345	4.37	591.18	189.78	0.32
lower	1228.	fldway#1	1984.00	6748.21	6755.41		6755.69	0.001209	4.36	483.29	77.26	0.30
lower	893	100year	1984.00	6747.80	6754.09		6754.31	0.001839	4.25	623.23	251.17	0.36
lower	893	fldway#1	1984.00	6747.80	6755.02		6755.25	0.001356	4.08	565.41	139.86	0.31
lower	813	100year	1984.00	6748.73	6754.00	6752.83	6754.19	0.002001	4.32	662.71	247.06	0.37
lower	813	fldway#1	1984.00	6748.73	6754.86	6752.83	6755.14	0.002000	4.76	497.31	117.58	0.38

Profile Output Table - Standard Table 2

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frctn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
main upper	13645	100year	6824.31	6824.21	0.09	1.14	0.07	549.53	1097.71	235.76	612.13
main upper	13645	fldway#1	6824.94	6824.74	0.20	1.51	0.07	290.73	1560.71	31.56	137.31
main upper	13145	100year	6823.10	6822.35	0.75	7.94	0.01	315.87	1567.13		238.74
main upper	13145	fldway#1	6823.36	6822.43	0.93	8.27	0.07	158.18	1724.82		151.99
split	12570	100year	6810.54	6810.35	0.20	0.66	0.01		430.81	216.32	220.28
split	12570	fldway#1	6810.68	6810.47	0.21	0.60	0.01		451.00	196.13	127.34
split	12514.2*	100year	6809.88	6809.64	0.25	0.69	0.01		501.62	145.51	206.43
split	12514.2*	fldway#1	6810.07	6809.80	0.27	0.71	0.01		546.73	100.40	99.39
split	12458.4*	100year	6809.18	6808.86	0.32	0.49	0.03		569.99	77.14	185.39
split	12458.4*	fldway#1	6809.35	6808.94	0.40	0.57	0.04		636.98	10.15	69.78
split	12402.6*	100year	6808.65	6808.45	0.21	0.18	0.03		573.25	73.88	203.24
split	12402.6*	fldway#1	6808.74	6808.48	0.26	0.23	0.04		627.83	19.30	80.22
split	12346.8*	100year	6808.44	6808.35	0.09	0.09	0.00	2.05	532.73	112.35	222.60
split	12346.8*	fldway#1	6808.47	6808.33	0.14	0.10	0.02		609.51	37.62	94.16
split	12291	100year	6808.35	6808.25	0.10	0.04	0.12		647.13		226.31
split	12291	fldway#1	6808.35	6808.25	0.10	0.04	0.12		647.13		102.00
split	12250		Bridge								
split	12202	100year	6806.60	6805.85	0.74	0.08	0.36		647.13		60.95
split	12202	fldway#1	6806.76	6806.34	0.42	0.13	0.17		647.13		65.91
split	12112	100year	6806.05	6806.03	0.02	0.76	0.07		647.13		236.60
split	12112	fldway#1	6806.46	6806.38	0.08	1.19	0.06		647.13		70.00
main split	12570.	100year	6810.56	6809.85	0.71	2.08	0.06		1235.45	0.42	116.81
main split	12570.	fldway#1	6810.57	6809.88	0.69	2.06	0.04		1235.87		115.94
main split	12291	100year	6808.42	6807.83	0.59	0.14	0.13	11.36	1224.51		199.66
main split	12291	fldway#1	6808.46	6807.86	0.60	0.13	0.11		1235.87		45.71
main split	12250		Bridge								
main split	12202	100year	6807.33	6806.64	0.69	0.24	0.24	13.87	1198.77	23.23	168.14
main split	12202	fldway#1	6807.53	6806.86	0.67	0.28	0.18		1235.87		47.00
main split	12112	100year	6806.85	6806.64	0.21	1.58	0.05	158.87	1059.46	17.54	139.70
main split	12112	fldway#1	6807.07	6806.76	0.31	1.83	0.04		1235.87		62.93
lower	11692	100year	6805.22	6804.48	0.74	3.88	0.09	306.82	1575.97	0.21	310.65
lower	11692	fldway#1	6805.21	6804.52	0.69	4.08	0.01	335.09	1547.91		287.09

lower	11280.	100year	6795.64	6795.21	0.43	4.85	0.04	1.94	1195.16	685.90	308.27
lower	11280.	fldway#1	6796.24	6795.49	0.75	4.58	0.15	19.97	1615.53	247.50	211.70
lower	10714	100year	6790.76	6790.44	0.32	4.80	0.01		1883.00		244.97
lower	10714	fldway#1	6790.85	6790.58	0.27	4.22	0.03		1883.00		245.79
lower	10089	100year	6785.95	6785.55	0.40	4.48	0.03	1022.67	859.15	1.19	503.40
lower	10089	fldway#1	6786.61	6786.01	0.60	5.20	0.02	774.07	1105.85	3.08	200.00
lower	9471	100year	6781.44	6780.79	0.65	3.40	0.01	226.42	1656.58		201.79
lower	9471	fldway#1	6781.39	6780.59	0.81	3.09	0.06	172.39	1710.61		198.04
lower	9027.	100year	6778.03	6777.23	0.80	0.61	0.21		1877.14	5.86	997.08
lower	9027.	fldway#1	6778.24	6777.65	0.59	0.36	0.16		1858.78	24.22	116.44
lower	8734	100year	6777.21	6777.12	0.09	0.35	0.00	179.12	1701.82	2.06	1784.09
lower	8734	fldway#1	6777.72	6777.66	0.06	0.22	0.00	234.01	1648.99		349.31
lower	8402.*	100year	6776.85	6776.76	0.09	1.07	0.03	536.91	1340.83	5.26	1642.93
lower	8402.*	fldway#1	6777.49	6777.40	0.09	0.80	0.06	328.20	1554.80		320.36
lower	8070.	100year	6775.75	6775.39	0.36	0.11	0.11	854.15	1028.85		1391.90
lower	8070.	fldway#1	6776.64	6775.98	0.66	0.54	0.19	194.30	1688.70		261.42
lower	7577.	100year	6771.12	6771.11	0.00	0.02	0.00	1572.25	296.82	13.94	1754.17
lower	7577.	fldway#1	6772.14	6772.10	0.04	0.14	0.00	837.57	1045.43		441.09
lower	7176.41*	100year	6771.09	6771.09	0.01	0.06	0.00	1420.37	421.80	40.83	1596.27
lower	7176.41*	fldway#1	6772.00	6771.94	0.06	0.24	0.01	724.59	1158.41		370.12
lower	6775.68*	100year	6771.04	6771.01	0.03	0.34	0.04	1109.60	655.79	117.61	1420.64
lower	6775.68*	fldway#1	6771.76	6771.65	0.11	0.80	0.06	616.82	1266.18		300.15
lower	6375	100year	6770.66	6770.22	0.44	0.32	0.12	363.44	1348.46	171.10	1127.97
lower	6375	fldway#1	6770.90	6770.24	0.67	0.41	0.19	319.84	1563.16		300.18
lower	5892	100year	6766.76	6766.74	0.02	0.12	0.01	1300.04	582.97		1059.47
lower	5892	fldway#1	6767.46	6767.43	0.04	0.17	0.01	1076.46	806.54		296.14
lower	5550.12*	100year	6766.63	6766.51	0.13	1.23	0.04	921.38	961.62		835.36
lower	5550.12*	fldway#1	6767.28	6767.14	0.14	1.89	0.04	807.23	1075.78		306.94
lower	5209	100year	6765.36	6764.84	0.52	0.23	0.15		1883.00		446.94
lower	5209	fldway#1	6765.36	6764.84	0.52	0.29	0.15		1883.00		304.73
lower	4667	100year	6760.04	6760.03	0.02	0.03	0.00	1195.66	519.24	168.10	948.74
lower	4667	fldway#1	6760.74	6760.72	0.03	0.05	0.00	1229.21	653.79		261.37
lower	4214.	100year	6760.02	6760.01	0.01	0.03	0.01	1088.11	356.89	438.01	764.89
lower	4214.	fldway#1	6760.69	6760.67	0.02	0.06	0.02	846.11	640.31	396.58	233.17
lower	3886.	100year	6759.98	6759.88	0.10	0.46	0.08	1046.60	811.82	24.58	559.85
lower	3886.	fldway#1	6760.61	6760.38	0.23	0.47	0.01	658.16	1224.84		174.81
lower	3639	100year	6759.44	6759.08	0.36	0.03	0.01	35.49	1847.51		111.13
lower	3639	fldway#1	6760.12	6759.85	0.27	0.02	0.00		1883.00		90.80
lower	3622		Bridge								
lower	3609	100year	6759.32	6758.85	0.47	0.78	0.02		1883.00		89.23
lower	3609	fldway#1	6760.06	6759.75	0.30	0.57	0.07		1883.00		97.07
lower	3379	100year	6758.53	6758.09	0.44	1.79	0.02	319.45	1563.55		507.02
lower	3379	fldway#1	6759.42	6758.88	0.54	1.75	0.05		1883.00		60.58
lower	3035.	100year	6756.72	6756.07	0.65	0.36	0.17	554.44	1416.83	12.73	597.54
lower	3035.	fldway#1	6757.62	6756.63	0.99	0.44	0.26	96.26	1887.74		75.99
lower	2665	100year	6756.19	6756.10	0.09	0.05	0.01	595.92	1148.86	239.21	451.79
lower	2665	fldway#1	6756.92	6756.79	0.13	0.04	0.04	412.07	1426.85	145.08	108.85
lower	2539	100year	6756.13	6756.07	0.06	0.00	0.00	98.39	1828.54	57.07	730.61
lower	2539	fldway#1	6756.84	6756.78	0.06	0.00	0.01		1984.00		187.00
lower	2528		Bridge								

lower	2517	100year	6756.10	6756.00	0.10	0.06	0.03	109.23	1832.09	42.68	609.30
lower	2517	fldway#1	6756.79	6756.70	0.09	0.07	0.02		1984.00		187.00
lower	2294	100year	6756.01	6755.97	0.03	0.09	0.05	286.08	1296.06	401.86	707.15
lower	2294	fldway#1	6756.70	6756.65	0.06	0.08	0.02	110.00	1611.23	262.78	145.97
lower	2103	100year	6755.87	6755.33	0.54	0.17	0.14	42.73	1870.45	70.82	157.22
lower	2103	fldway#1	6756.60	6756.30	0.30	0.15	0.07	72.36	1752.40	159.24	142.38
lower	1789	100year	6755.55	6755.48	0.07	0.04	0.00	293.79	1630.63	59.58	263.75
lower	1789	fldway#1	6756.39	6756.31	0.08	0.04	0.01	196.20	1787.80		106.37
lower	1640.	100year	6755.51	6755.40	0.11	0.03	0.03	253.25	1673.43	57.32	198.91
lower	1640.	fldway#1	6756.34	6756.20	0.14	0.03	0.01		1984.00		73.91
lower	1578	100year	6755.46	6755.26	0.19				1984.00		385.03
lower	1578	fldway#1	6756.30	6756.14	0.16				1984.00		63.00
lower	1516		Bridge								
lower	1455	100year	6755.22	6755.04	0.18	0.09	0.05		1984.00		650.65
lower	1455	fldway#1	6756.04	6755.89	0.15	0.08	0.05		1984.00		63.00
lower	1353	100year	6755.08	6754.75	0.34	0.02	0.01	0.03	1838.35	145.62	188.60
lower	1353	fldway#1	6755.91	6755.61	0.30	0.01	0.00		1984.00		74.00
lower	1340		Bridge								
lower	1326	100year	6754.97	6754.73	0.23	0.12	0.01	47.67	1726.97	209.36	223.99
lower	1326	fldway#1	6755.82	6755.64	0.18	0.09	0.03		1727.25	256.76	104.56
lower	1228.	100year	6754.84	6754.59	0.25	0.51	0.01	302.14	1628.20	53.66	189.78
lower	1228.	fldway#1	6755.69	6755.41	0.28	0.42	0.02	128.69	1855.31		77.26
lower	893	100year	6754.31	6754.09	0.22	0.11	0.01	8.95	1457.05	518.00	251.17
lower	893	fldway#1	6755.25	6755.02	0.23	0.11	0.01		1697.73	286.28	139.86
lower	813	100year	6754.19	6754.00	0.19				1018.94	965.06	247.06
lower	813	fldway#1	6755.14	6754.86	0.28				1350.49	633.51	117.58

Lot 1, Indian Meadows Filing No. 3
Walton Creek Preliminary
HEC-RAS Split Flow Analysis
October 3, 2022



Appendix B

Existing Conditions Model Output

HEC-RAS HEC-RAS 6.2 March 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```

X      X  XXXXXX   XXXX      XXXX      XX      XXXX
X      X  X        X      X      X  X      X
X      X  X        X      X  X      X  X      X
XXXXXXXX XXXX      X      XXX XXXX XXXXXXX XXXX
X      X  X        X      X  X      X  X      X
X      X  X        X      X  X      X  X      X
X      X  XXXXXX   XXXX      X  X      X  X      XXXXX

```

PROJECT DATA

Project Title: Hampton Inn & Holiday Inn Express Proposed Development
Project File : WaltonCreek-PP Worked.prj
Run Date and Time: 2/10/2023 6:48:49 AM

Project in English units

Project Description:

Project Name: Hampton Inn & Holiday Inn Express Proposed Development
Project

Owner: Gray Stone, LLC

State: Colorado

County: Routt County

Stream Name:

Walton Creek

Analysis by: Wohnrade Civil Engineers, Inc. (WCE)

Date of

Analysis: 2/9/2023

HEC-RAS Version 5.0.7

Vertical Datum used: NGVD 29 which
is 4.12' lower than the NAVD88 datum

Horizontal Projection used: NAD 1983

(2011) State Plane Colorado North FIPS 0501 (US Feet)

Analysis Description:

This enhanced model was developed using aerial GIS LiDAR and supplemental ground survey and is the best available data for the proposed land development project. It includes the 100-year recurrence interval only.

Please refer to

the letter report entitled, Final Summary of Findings, Hampton Inn & Holiday Inn Express, Walton Creek HEC-RAS Split Flow Analysis for additional information related to this analysis.

The Effective HEC-RAS model has been truncated at the downstream end for this analysis. The model begins at the downstream side of the Highway 40 (SECNO 1455) and ends at the upper limit of the study reach. Cross-sections within the study reach include Section 1455 through Section 13645.

This model includes both Existing Conditions and Proposed Project models. The Proposed Project model takes into account the Hampton Inn & Holiday Inn Express Proposed Development.

CRS

Info=<SpatialReference> <CoordinateSystem Code="2231" Unit="US_survey_Foot"
AcadCode="CO83-NF" /></SpatialReference>

PLAN DATA

Plan Title: WC 100 EC

Plan File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.p04

Geometry Title: WC 100 EC
Geometry File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.g04

Flow Title : WC 100 EC
Flow File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.f03

Plan Description:

This plan is the Existing Conditions model for the 100-year event which does not include the offsite inline weir and does not include new culverts at Stone Lane and Ingles Lane. The model extends from the downstream side of the bridge at Highway 40 (Cross Section 1455, Walton Creek Lower Reach) to just upstream of County Road 24 (Cross Section 13645, Main Upper Reach).

Plan Summary Information:

Number of:	Cross Sections =	73	Multiple Openings =	0
	Culverts =	3	Inline Structures =	0
	Bridges =	6	Lateral Structures =	3

Computational Information

Water surface calculation tolerance	=	0.01
Critical depth calculation tolerance	=	0.01
Maximum number of iterations	=	20
Maximum difference tolerance	=	0.3
Flow tolerance factor	=	0.001

Computation Options

Critical depth computed only where necessary	
Conveyance Calculation Method:	At breaks in n values only
Friction Slope Method:	Average Conveyance
Computational Flow Regime:	Subcritical Flow

Encroachment Data

Equal Conveyance	=	True
Left Offset	=	0
Right Offset	=	0

FLOW DATA

Flow Title: WC 100 EC
Flow File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.f03

Flow Data (cfs)

River	Reach	RS	100-yr
Walton Creek	lower	1578	1984
Walton Creek	lower-DE	11692	1883
Walton Creek	lower-main split	5893	1523
Walton Creek	lower-main split	3035	1624
Walton Creek	lower-split	1001	360
Walton Creek	main split	12570.	1235.87
Walton Creek	main upper	13645	1883
Walton Creek	split	12570	647.13

Boundary Conditions

River	Reach	Profile	Upstream
Downstream			

Walton Creek lower 100-yr Known WS =
6755.04

Observed Water Surface Marks

River	Reach	RS	100-yr
Walton Creek	4	13145.60	6819.62
Elk River	7	16700	6586.15
Elk River	7	16534	6597.15
Yampa River	2c	1000651.	6703.45

GEOMETRY DATA

Geometry Title: WC 100 EC
Geometry File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL
GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.g04

Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
Walton Creek	lower-split	WC-INM-US-SPLIT	HWY40-Split-Comb
Walton Creek	lower-DE	splitcomb	WC-INM-US-SPLIT
Walton Creek	lower-main split	WC-INM-US-SPLIT	HWY40-Split-Comb
Walton Creek	lower	HWY40-Split-Comb	
Walton Creek	main upper		waltonsplit
Walton Creek	split	waltonsplit	splitcomb
Walton Creek	main split	waltonsplit	splitcomb

JUNCTION INFORMATION

Name: splitcomb
Description:
Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
Walton Creek	main split	to Walton Creek	lower-DE	418.24	0
Walton Creek	split	to Walton Creek	lower-DE	413.63	0

Name: waltonsplit
Description:
Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
Walton Creek	main upper	to Walton Creek	main split	575.54	0
Walton Creek	main upper	to Walton Creek	split	670	0

Name: WC-INM-US-SPLIT
Description:
Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
Walton Creek	lower-DE	to Walton Creek	lower-main split	489.76	0
Walton Creek	lower-DE	to Walton Creek	lower-split	201.04	0

Name: HWY40-Split-Comb
Description:
Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
Walton Creek	lower-main split	to Walton Creek	lower	0	0
Walton Creek	lower-split	to Walton Creek	lower	0	0

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 1001

INPUT

Description:

Station	Elevation	Data	num=	498
Sta	Elev	Sta	Elev	Sta Elev
0	6769.59	1.11	6769.57	3.22 6769.56
7.54	6769.4	9.83	6769.34	12.71 6769.22
16.23	6769.15	18.55	6769.09	20.23 6769.02
23.4	6768.87	25.34	6768.79	25.87 6768.77
29.26	6768.62	33.24	6768.28	34.06 6767.96
38.24	6766.6	38.9	6766.43	40.64 6766.05
45.24	6764.91	45.81	6764.76	47.25 6764.35
49.94	6764.14	53.25	6764.22	53.44 6764.26
56.35	6764.44	58.28	6764.57	60.22 6764.81
67.01	6764.67	67.52	6764.63	67.98 6764.54
74.26	6764.08	76.7	6763.98	77.67 6763.95
82.51	6763.97	83.27	6763.99	86.39 6763.86
89.24	6763.78	91.23	6763.82	93.17 6763.85
101.65	6763.93	103.28	6763.97	103.72 6764
110.28	6764.37	111.58	6764.44	111.99 6764.49
118.2	6765.03	120.85	6765.2	124.18 6765.4
133.87	6765.67	135.78	6765.65	140.65 6765.57
144.05	6765.64	145.5	6765.66	148.19 6765.58
153.36	6765.56	155.43	6765.51	158.3 6765.42
161.31	6765.39	163.31	6765.36	164.31 6765.37
169.31	6765.38	169.9	6765.36	170.94 6765.35
178.44	6765.38	179.21	6765.39	181.28 6765.45
188.52	6765.52	189.1	6765.54	191.04 6765.54
197.33	6765.48	199.33	6765.47	202.67 6765.43
208.17	6765.6	209.2	6765.61	211.39 6765.61
216.24	6765.54	217.48	6765.52	218.17 6765.49
222.34	6765.7	222.65	6765.69	223.02 6765.73
226.9	6765.52	228.34	6765.44	228.83 6765.43
235.62	6765.42	236.09	6765.43	237.55 6765.43
241.35	6765.4	243.37	6765.38	245.31 6765.33
248.5	6765.28	249.18	6765.31	250.57 6765.35
258.36	6765.55	259.88	6765.5	261.94 6765.42
266.63	6765.22	268.12	6765.26	268.15 6765.26
269.53	6765.18	270.22	6765.1	271.36 6765.12
278.49	6763.66	281.16	6763.32	283.37 6762.87
286.01	6762.64	288.37	6762.57	290.85 6762.61
293.38	6762.35	294	6762.33	295.04 6762.32
298.6	6762.37	302.4	6762.27	303.41 6762.25
305.56	6762.49	306.43	6762.62	307.33 6762.61
311.76	6762.71	312.31	6762.68	313.49 6762.84
317.62	6763.48	318.56	6763.65	320.54 6763.77
324.07	6763.91	324.14	6763.84	324.62 6763.9
328.66	6763.82	329.67	6763.91	333.71 6764.2
341.72	6764.5	342.73	6764.53	343.81 6764.58
347.6	6765.23	348.92	6765.48	349.95 6765.52
353.34	6765.65	353.48	6765.69	355.83 6765.66
359.36	6765.57	362.19	6765.25	363.08 6765.16
368.39	6765.38	369.06	6765.42	371.12 6765.17
375.12	6764.89	377	6764.72	379 6764.65
382.54	6764.68	382.88	6764.71	384.06 6764.68
388.74	6764.22	388.77	6764.15	389.25 6764.15
394.3	6764.4	394.65	6764.38	394.93 6764.44
399.35	6764.68	400.53	6764.74	401.12 6764.69
404.4	6764.62	405.55	6764.87	406.41 6765.07
412.29	6765.68	413.65	6765.77	417.53 6766.08
419.35	6766.13	423.25	6766.06	424.05 6766.04
428.55	6765.97	430.66	6765.94	432.09 6765.91
440.06	6765.71	441.7	6765.63	444.8 6765.43
448.76	6765.3	451.11	6765.31	451.56 6765.33
459.95	6765.27	462.18	6765.21	463.64 6765.16
				464.83 6765.13
				467.02 6765.12

468.75	6765.1	471.11	6765.11	475.1	6765.25	479.14	6765.29	480.15	6765.31
482.87	6765.27	485.07	6765.17	486.07	6765.15	488.75	6765.08	490.25	6765.03
494.03	6765.2	494.63	6765.22	495.8	6765.3	495.81	6765.28	496.69	6765.31
499.36	6765.35	504.39	6765.48	505.4	6765.49	506.5	6765.58	509.07	6765.77
510.45	6765.92	513.64	6766.07	515.27	6766.17	517.92	6766.26	519.33	6766.23
520.79	6766.21	522.35	6766.17	524.12	6766.06	525.6	6765.98	526.77	6765.85
527.57	6765.84	530.31	6765.78	531.09	6765.8	531.2	6765.78	533.85	6765.91
535.8	6765.99	536.98	6766.06	539.16	6766.21	540.75	6766.31	544.79	6766.08
545.8	6766.03	547.56	6766.11	548.74	6766.1	550.85	6766.1	552.87	6766.02
554.2	6765.98	555.8	6765.92	559.33	6765.88	561.28	6765.91	562.85	6765.95
563.64	6765.96	565.21	6766	566	6765.99	568.36	6765.89	571.01	6765.77
571.9	6765.79	572.26	6765.78	573.44	6765.8	576.32	6765.83	577.1	6765.87
577.93	6765.88	580.75	6765.95	582.15	6765.93	586.06	6765.82	588.71	6765.82
591.36	6765.77	593.13	6765.83	593.44	6765.85	596.29	6765.91	596.97	6765.94
600.49	6766.12	601.1	6766.13	603.75	6766.28	604.64	6766.32	606.38	6766.42
609.06	6766.51	609.95	6766.53	611.72	6766.59	612.26	6766.62	616.49	6766.69
619.52	6766.42	620.56	6766.34	621.67	6766.24	622.55	6766.19	624.02	6766.09
624.99	6766.05	626.59	6766	629.9	6766.17	630.3	6766.13	630.63	6766.15
631.64	6766.12	632.95	6766.11	633.84	6766.09	635.61	6766.07	636.69	6766.07
638.71	6766.21	639.15	6766.23	641.66	6766.4	642.21	6766.38	645.19	6766.18
645.34	6766.18	646.79	6766.08	647.11	6766.1	647.55	6766.06	649.35	6766.15
650.65	6766.2	651.84	6766.26	653.43	6766.31	656.96	6766.4	659.31	6766.51
659.5	6766.45	659.92	6766.48	661.94	6766.39	665.19	6766.66	665.69	6766.61
666.63	6766.73	667.11	6766.73	667.97	6766.85	669.15	6766.87	669.94	6766.86
670.39	6766.89	671.36	6766.88	671.97	6766.9	672.77	6766.9	673.3	6766.92
674.19	6766.91	674.63	6766.93	676.71	6766.83	677.3	6766.79	681.25	6766.59
682.63	6766.56	685.53	6766.56	687.97	6766.67	689.07	6766.69	690.63	6766.68
692.61	6766.71	694.63	6766.75	697.3	6766.63	697.88	6766.61	699.97	6766.46
701.11	6766.37	702.63	6766.27	703.24	6766.24	706.95	6766	707.97	6765.92
709.62	6765.92	711.48	6765.9	712.99	6765.9	714.51	6765.87	716.02	6765.81
717.53	6765.74	719.97	6765.64	721.3	6765.6	723.58	6765.61	725.09	6765.63
728.11	6765.65	735.67	6766.1	737.18	6766.09	740.21	6766.09	741.5	6766.08
742.91	6766.05	745.3	6765.98	747.76	6765.92	749.51	6765.8	751.42	6765.68
754.19	6765.52	754.65	6765.49	756.75	6765.54	759.91	6765.6	761.49	6765.31
763.45	6764.98	764.08	6764.82	765.55	6764.47	765.95	6764.43	767.01	6764.31
769.11	6764.09	775.17	6763.49	775.81	6763.49	777.6	6763.46	777.9	6763.32
778.31	6763.01	778.74	6763.03	779.01	6763	780.43	6763.32	781.14	6763.41
783.97	6764.12	784.89	6764.35	787.53	6765	788.85	6765.31	790.22	6765.84
790.95	6766.12	794.32	6767.4	794.58	6767.47	794.86	6767.6	795.69	6767.75
796.16	6767.69	799.6	6767.31	799.74	6767.31				

Manning's n Values				num=	7				
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	25.87	.025	37.47	.06	268.12	.04	317.62	.06
759.91	.04	790.95	.06						

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
759.91	790.95		224.95	230.26	224.95		.1	.3
Ineffective Flow			num=	1				
Sta L	Sta R	Elev	Permanent					
0	674.63	6767	F					

LATERAL STRUCTURE

RIVER: Walton Creek
 REACH: lower-split RS: 1000.8

INPUT

Description:

Lateral structure position = Right overbank

Distance from Upstream XS =

Deck/Roadway Width = 5

Weir Coefficient = .1

Weir Flow Reference = Water Surface

Weir Embankment Coordinates num = 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6766.65	.35	6766.65	.69	6766.66	1.18	6766.66	1.99	6766.68
2.57	6766.68	3.15	6766.69	4.79	6766.69	5.35	6766.7	6.74	6766.7
7.58	6766.68	8.61	6766.66	8.9	6766.65	9.65	6766.64	9.72	6766.63
9.99	6766.63	10.92	6766.61	11.71	6766.61	12.18	6766.6	14	6766.6

14.64	6766.59	14.81	6766.6	15.1	6766.6	15.47	6766.61	15.84	6766.61
16.29	6766.62	16.49	6766.63	16.88	6766.63	17.11	6766.64	17.91	6766.64
17.93	6766.65	18.75	6766.65	18.94	6766.66	20.39	6766.66	20.66	6766.67
21.21	6766.67	22	6766.68	22.85	6766.67	23.45	6766.67	23.67	6766.68
24.11	6766.68	24.5	6766.69	25.14	6766.69	25.32	6766.7	26.23	6766.7
26.96	6766.69	27.2	6766.69	27.62	6766.67	27.78	6766.64	28.24	6766.63
28.6	6766.61	29.01	6766.58	29.27	6766.57	30	6766.52	30.24	6766.5
31.06	6766.45	31.8	6766.4	31.88	6766.4	32.37	6766.37	33.19	6766.42
33.4	6766.44	33.53	6766.44	34.35	6766.51	35.17	6766.54	35.97	6766.59
36.5	6766.61	36.81	6766.63	37.63	6766.66	38.01	6766.64	38.45	6766.63
39.6	6766.59	40.63	6766.55	40.91	6766.55	41.54	6766.52	42.01	6766.52
42.7	6766.51	43.38	6766.48	43.73	6766.47	44.33	6766.44	44.76	6766.43
46.01	6766.38	47.11	6766.33	47.48	6766.31	47.86	6766.3	50.01	6766.3
50.76	6766.29	51.59	6766.29	51.99	6766.28	55.09	6766.28	55.46	6766.29
55.69	6766.28	56.51	6766.3	57.15	6766.32	57.33	6766.33	58.02	6766.35
58.25	6766.36	58.97	6766.38	59.22	6766.38	59.64	6766.4	59.79	6766.4
61.44	6766.44	62.26	6766.47	62.42	6766.47	63.35	6766.5	63.81	6766.48
63.9	6766.52	64.38	6766.5	65.21	6766.45	65.54	6766.44	66.02	6766.41
66.6	6766.39	67.18	6766.38	68.52	6766.33	69.38	6766.36	69.65	6766.36
70.02	6766.37	70.77	6766.4	71.61	6766.42	72.65	6766.44	72.93	6766.45
73.56	6766.46	74.03	6766.45	74.57	6766.45	74.71	6766.44	74.95	6766.44
75.39	6766.43	75.74	6766.43	76.21	6766.42	76.34	6766.41	77.73	6766.37
78.68	6766.34	78.84	6766.33	79.13	6766.33	79.5	6766.32	79.88	6766.32
80.32	6766.31	80.52	6766.33	80.91	6766.33	81.91	6766.37	82.03	6766.37
82.97	6766.41	83.6	6766.43	84.01	6766.45	84.42	6766.44	84.69	6766.46
85.24	6766.46	86.03	6766.48	86.88	6766.49	87.48	6766.49	87.71	6766.5
88.87	6766.5	89.17	6766.51	90.26	6766.46	90.99	6766.42	92.27	6766.36
92.63	6766.35	93.3	6766.32	93.45	6766.32	94.27	6766.29	96.74	6766.29
97.22	6766.28	97.56	6766.28	98.04	6766.27	98.61	6766.27	99.2	6766.26
100.84	6766.26	101.56	6766.25	101.66	6766.24	102.04	6766.24	102.79	6766.22
103.3	6766.22	103.63	6766.21	104.66	6766.19	105.57	6766.16	105.77	6766.16
106.59	6766.13	106.97	6766.11	107.41	6766.1	107.76	6766.08	108.23	6766.07
108.36	6766.06	108.79	6766.05	109.75	6766.01	110.04	6766.01	110.69	6766
111.14	6766	111.51	6765.99	112.53	6765.99	112.66	6765.98	113.09	6765.98
113.13	6765.97	114.52	6765.97	115.21	6765.96	116	6765.96	116.62	6765.93
117.2	6765.96	117.48	6765.97	118.96	6765.97	119.46	6765.98	120.44	6765.98
120.87	6765.99	121.27	6765.99	121.58	6766	122.29	6766	122.62	6766.01
122.99	6766.01	123.4	6766.02	123.7	6766.01	123.98	6766.01	124.88	6765.99
125.12	6765.98	125.34	6765.98	125.83	6765.96	126.69	6765.94	127.24	6765.93
127.84	6765.95	128.05	6765.95	128.66	6765.97	129.41	6765.98	130.8	6766.02
131.49	6765.98	132.12	6765.96	132.9	6765.92	133.48	6765.9	133.76	6765.88
134.32	6765.86	134.83	6765.87	135.24	6765.87	136.19	6765.89	136.44	6765.89
136.72	6765.9	137.15	6765.9	137.55	6765.91	138.2	6765.91	139.68	6765.95
139.98	6765.95	140.26	6765.96	141.16	6765.98	141.62	6765.99	142.64	6766.01
142.97	6766.01	144.12	6766.03	144.94	6766.04	145.6	6766.08	146.35	6766.07
146.68	6766.07	147.07	6766.06	147.28	6766.07	148.16	6766.07	148.86	6766.08
149.31	6766.08	149.75	6766.07	150.06	6766.07	151.07	6766.02	151.54	6765.99
151.62	6765.99	152.08	6765.96	152.78	6765.92	153.09	6765.91	153.33	6765.89
154.22	6765.86	155.09	6765.82	155.22	6765.81	156.24	6765.77	156.91	6765.75
157.12	6765.74	157.4	6765.74	157.8	6765.71	158.13	6765.72	159.71	6765.72
160.14	6765.73	160.48	6765.72	160.86	6765.72	161.15	6765.71	161.38	6765.71
162.16	6765.7	162.27	6765.69	164.06	6765.67	164.32	6765.67	164.96	6765.66
165.48	6765.66	166.19	6765.64	166.63	6765.64	166.74	6765.63	171.25	6765.63
172.11	6765.62	172.24	6765.61	173.01	6765.6	173.25	6765.6	173.56	6765.59
173.9	6765.59	174.26	6765.58	174.79	6765.58	175.26	6765.57	175.69	6765.57
175.87	6765.55	176.27	6765.55	177.03	6765.52	177.28	6765.52	177.48	6765.51
178.18	6765.49	178.37	6765.48	179.33	6765.45	180.16	6765.43	180.49	6765.43
181.06	6765.44	181.64	6765.46	181.95	6765.46	182.32	6765.47	183.74	6765.5
184.34	6765.51	184.63	6765.51	185.11	6765.52	185.34	6765.53	187.42	6765.53
188.21	6765.54	189.1	6765.54	189.38	6765.55	190.38	6765.55	190.88	6765.56
191.79	6765.56	192.04	6765.57	193.58	6765.57	194.35	6765.58	195.5	6765.58
196.26	6765.6	196.66	6765.6	197.44	6765.62	197.81	6765.62	198.05	6765.65
198.45	6765.66	198.96	6765.68	199.84	6765.73	200.12	6765.74	200.46	6765.76
201.27	6765.73	201.63	6765.72	202.43	6765.69	202.52	6765.69	203.42	6765.66
203.58	6765.66	204.31	6765.62	204.5	6765.62	205.2	6765.59	205.89	6765.57
206.51	6765.57	206.99	6765.56	207.52	6765.56	207.89	6765.55	208.53	6765.55
208.78	6765.54	209.68	6765.54	210.51	6765.53	210.78	6765.53	211.47	6765.54
211.55	6765.55	212.36	6765.55	212.82	6765.57	213.25	6765.57	213.57	6765.58
213.98	6765.58	214.15	6765.59	214.58	6765.59	215.59	6765.61	216.29	6765.63
217.44	6765.67	217.73	6765.67	218.59	6765.7	218.71	6765.7	219.52	6765.72
220.41	6765.75	220.63	6765.76	220.9	6765.76	221.3	6765.77	222.06	6765.77

222.2	6765.78	222.64	6765.78	223.09	6765.79	223.99	6765.79	224.37	6765.8
224.88	6765.8	225.52	6765.76	225.78	6765.76	226.65	6765.68	227.57	6765.61
227.83	6765.58	228.69	6765.51	228.99	6765.5	229.35	6765.46	229.7	6765.44
230.25	6765.43	230.71	6765.41	231.14	6765.42	232.04	6765.42	232.45	6765.43
232.93	6765.43	233.61	6765.44	235.91	6765.44	236.75	6765.41	237.76	6765.38
238.3	6765.37	239.19	6765.33	239.38	6765.33	240.79	6765.27	240.98	6765.28
241.88	6765.29	242.52	6765.31	244.56	6765.31	244.82	6765.3	245.83	6765.3
246.31	6765.26	246.35	6765.25	246.83	6765.21	247.24	6765.17	247.46	6765.13
247.84	6765.1	248.14	6765.06	248.62	6765.01	249.93	6764.85	250.46	6764.79
250.82	6764.74	251.72	6764.73	252.88	6764.73	253.24	6764.72	254.39	6764.72
255.29	6764.7	255.54	6764.71	255.91	6764.7	256.19	6764.66	256.7	6764.64
256.91	6764.61	257.85	6764.55	258.39	6764.52	258.87	6764.48	259.94	6764.41
260.66	6764.35	260.95	6764.33	261.32	6764.34	261.55	6764.34	261.95	6764.35
262.45	6764.37	262.96	6764.38	263.97	6764.41	264.24	6764.41	264.78	6764.43
265.94	6764.46	266.33	6764.48	266.92	6764.53	267.09	6764.54	267.81	6764.6
268.71	6764.66	269.01	6764.69	269.4	6764.74	269.6	6764.73	270.5	6764.86
271.03	6764.94	272.04	6764.97	272.29	6764.97	273.18	6765	274.02	6765.02
274.27	6765.03	275.86	6765.05	276.07	6765.05	276.33	6765.03	276.76	6764.98
277.48	6764.91	277.65	6764.9	278.08	6764.86	278.55	6764.81	278.64	6764.77
279.09	6764.72	279.79	6764.6	280.34	6764.51	280.95	6764.4	281.11	6764.38
282.1	6764.3	283.02	6764.22	283.12	6764.22	283.91	6764.16	284.13	6764.14
284.81	6764.09	285.14	6764.06	286.15	6763.99	286.6	6763.9	286.72	6763.87
287.16	6763.79	287.49	6763.72	287.88	6763.66	288.16	6763.6	288.94	6763.46

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6766.83	Weir Sta US (ft)	155.83
W.S. US. (ft)	6766.26	Weir Sta DS (ft)	288.94
E.G. DS (ft)	6764.74	Min El Weir Flow (ft)	6763.46
W.S. DS (ft)	6764.70	Wr Top Wdth (ft)	130.93
Q US (cfs)	497.14	Weir Max Depth (ft)	2.33
Q Leaving Total (cfs)	-6.80	Weir Avg Depth (ft)	0.54
Q DS (cfs)	503.94	Weir Flow Area (sq ft)	70.54
Perc Q Leaving	-1.37	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	-6.80	Weir Submerg	0.21
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			
Breach SSR (ft)			

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 1000

INPUT

Description:
 Station Elevation Data num= 492

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6768.71	1.36	6768.69	2.63	6768.66	4.65	6768.63	5.66	6768.6
7.31	6768.54	9.29	6768.45	10.29	6768.42	13.26	6768.35	13.73	6768.33
14.74	6768.31	16.49	6768.25	19.78	6768.18	20.73	6768.15	21.49	6768.14
22.49	6768.06	24.17	6767.94	25.16	6767.86	26.49	6767.77	27.49	6767.64
29.13	6767.45	30.62	6767.26	31.49	6767.15	33.49	6766.18	34.91	6765.5
35.08	6765.49	35.49	6765.29	36.49	6764.92	37.49	6764.5	37.93	6764.36
38.05	6764.26	39.95	6763.66	41.49	6763.16	44	6763.56	46.49	6763.94
46.98	6763.96	48.49	6764.05	49.03	6764.07	50.04	6764.13	55.08	6764.48
56.49	6764.55	59.11	6764.47	59.49	6764.45	59.87	6764.46	60.12	6764.43
61.49	6764.47	64.16	6764.39	64.49	6764.39	64.83	6764.35	65.16	6764.37
66.49	6764.23	67.49	6764.18	69.49	6764.1	70.21	6764.06	71.77	6763.95
73.23	6763.79	73.49	6763.77	74.74	6763.63	75.73	6763.53	76.49	6763.44
78.28	6762.71	79.49	6762.2	80.69	6761.71	81.49	6761.37	82.68	6761.32
83.32	6761.25	83.67	6761.23	86.34	6760.98	86.64	6760.97	89.37	6761
91.6	6761	94.41	6760.94	95.57	6760.92	97.55	6760.96	98.54	6760.99
100.46	6761.03	101.47	6761.04	103.5	6761.02	105.48	6760.99	106.5	6760.99
110.5	6761.58	111.43	6761.77	114.41	6762.31	115.4	6762.5	116.5	6762.66
120.64	6762.37	121.5	6762.32	122.65	6762.38	125.68	6762.51	126.31	6762.49
126.69	6762.5	127.3	6762.56	128.7	6762.6	130.27	6762.66	131.5	6762.7
135.5	6763.18	135.76	6763.22	136.22	6763.21	136.5	6763.24	137.22	6763.23
139.2	6763.17	139.5	6763.17	140.81	6763.13	141.18	6763.17	146.5	6763.01
148.12	6762.5	149.12	6762.2	151.5	6761.46	152.09	6761.46	154.5	6761.49
155.94	6761.5	156.5	6761.49	158.04	6761.43	158.5	6761.42	159.97	6761.36
160.98	6761.33	161.02	6761.35	161.5	6761.33	162.5	6761.32	164	6761.32
166.02	6761.3	166.5	6761.31	171.06	6761.31	172.91	6761.29	186.8	6761.29
187.2	6761.28	191.76	6761.28	193.25	6761.29	197.29	6761.33	198.7	6761.34
199.69	6761.36	200.31	6761.36	201.32	6761.38	202.33	6761.37	203.66	6761.37
204.35	6761.36	211.59	6761.36	212.42	6761.37	217.54	6761.37	218.47	6761.38
221.5	6761.38	223.51	6761.43	224.48	6761.46	225.53	6761.48	226.46	6761.51
231.42	6761.46	233.6	6761.46	234.4	6761.45	235.61	6761.45	237.5	6761.43
238.5	6761.43	240.66	6761.4	242.67	6761.4	243.32	6761.41	244.5	6761.41
244.69	6761.42	246.5	6761.43	249.27	6761.57	249.5	6761.59	251.75	6761.7
252.25	6761.71	254.5	6761.78	255.22	6761.79	256.5	6761.83	256.79	6761.88
257.2	6761.87	257.5	6761.92	258.5	6761.97	261.5	6762.15	263.5	6762.6
263.85	6762.67	265.5	6763.04	265.77	6763.13	265.87	6763.17	266.13	6763.18
266.5	6763.31	266.88	6763.35	267.12	6763.45	267.5	6763.49	269.5	6763.95
271.5	6764.4	272.08	6764.46	272.5	6764.48	274.06	6764.63	274.5	6764.68
276.5	6764.87	277.04	6764.9	278.5	6764.95	280.5	6765.05	282	6765.1
282.01	6765.05	283.02	6765.06	284.5	6765.08	286.5	6765.11	286.95	6765.09
287.05	6765.11	287.95	6765.07	290.08	6765	291.09	6764.96	291.91	6764.94
292.09	6764.91	292.5	6764.91	293.9	6764.88	294.89	6764.87	295.5	6764.85
296.5	6764.84	296.87	6764.81	297.14	6764.76	300.84	6764.46	301.83	6764.37
302.18	6764.37	304.5	6764.09	306.5	6763.86	310.75	6764.33	311.5	6764.43
312.27	6764.49	313.5	6764.55	313.73	6764.55	316.5	6764.68	317.31	6764.68
318.69	6764.72	319.33	6764.73	320.67	6764.77	322.35	6764.81	324.37	6764.82
324.5	6764.83	325.63	6764.83	326.62	6764.84	327.39	6764.87	329.59	6764.87
330.42	6764.88	331.58	6764.88	332.44	6764.9	336.47	6765.19	337.48	6765.21
341.51	6765.21	342.52	6765.22	344.54	6765.3	346.45	6765.36	347.44	6765.41
348.44	6765.44	350.42	6765.52	351.6	6765.56	356.37	6765.66	358.35	6765.66
358.5	6765.67	366.73	6765.67	370.51	6765.76	371.51	6765.79	373.51	6765.79
375.51	6765.76	378.83	6765.76	379.18	6765.77	381.86	6765.77	382.51	6765.76
384.51	6765.7	386.51	6765.62	387.91	6765.7	388.1	6765.68	388.92	6765.71
389.51	6765.71	391.51	6765.74	392.95	6765.3	393.06	6765.36	393.51	6765.23
396.51	6764.84	397.99	6764.69	399	6764.6	400	6764.5	400.01	6764.52
400.51	6764.47	401.51	6764.43	402.51	6764.3	402.98	6764.2	403.04	6764.23
404.05	6764.02	406.06	6763.58	406.51	6763.49	407.51	6763.46	407.93	6763.51
408.08	6763.44	410.1	6763.71	411.51	6763.89	412.11	6764.06	414.13	6764.58
416.51	6765.17	418.51	6765.45	419.83	6765.61	421.51	6765.83	422.51	6765.87
422.81	6765.84	423.21	6765.9	423.8	6765.84	426.51	6765.54	428.25	6765.42
429.51	6765.37	429.75	6765.35	433.29	6765.21	433.51	6765.22	435.7	6765.22
436.32	6765.23	438.68	6765.23	439.35	6765.22	440.51	6765.22	441.51	6765.21
443.38	6765.14	444.63	6765.1	446.51	6765.09	447.6	6765.06	448.42	6765.02
449.58	6765.06	450.57	6765.08	451.45	6765.11	452.56	6765.09	454.81	6765.01
455.49	6764.97	455.96	6764.96	457.12	6764.91	459.15	6765.01	460.68	6765.11
462.08	6765.19	462.81	6765.24	465.19	6765.24	465.74	6765.25	468.71	6765.25
470.72	6765.16	472.33	6765.1	474.53	6765.29	476	6765.46	476.74	6765.48
478.74	6765.51	480.18	6765.51	481.85	6765.59	482.49	6765.61	484.05	6765.69
484.84	6765.72	485.95	6765.78	487.1	6765.89	487.71	6765.96	488.78	6766.06
491.72	6766.25	492.79	6766.37	494.31	6766.53	497.48	6766.53	498.81	6766.16
499.43	6766.05	500.94	6765.8	501.11	6765.78	503.25	6765.42	504.83	6765.05

505.56	6764.89	507.86	6764.35	507.98	6765.61	509.19	6765.59	513.22	6764.37
513.69	6763.55	513.96	6763.04	514	6763.12	514.47	6763.29	515.6	6764.44
517.06	6765.3	517.67	6764.95	520.47	6764.15	526.26	6763.31	532.96	6763.23
535.02	6763.45	541.85	6764.17	545.43	6764.85	557.42	6765.4	557.92	6765.39
559.95	6765.42	570.42	6765.6	573.01	6765.62	573.35	6765.68	576.99	6765.68
578	6765.66	580.88	6765.72	581.87	6765.75	586.82	6765.8	591.13	6765.8
591.77	6765.79	592.95	6765.79	593.15	6765.78	596.72	6765.82	598.7	6765.86
601.95	6765.96	603.25	6765.93	603.65	6765.96	603.95	6765.95	604.95	6765.97
606.95	6766.03	608.3	6766.01	608.61	6765.98	609.6	6765.94	611.33	6765.85
611.96	6765.81	612.96	6765.84	613.96	6765.84	616.53	6765.79	618.4	6765.78
619.5	6765.75	621.96	6765.7	623.96	6765.61	626.96	6765.52	627.96	6765.53
628.41	6765.57	628.5	6765.53	631.39	6765.79	631.96	6765.85	632.96	6765.87
633.38	6765.85	633.53	6765.89	634.54	6765.83	635.37	6765.77	636.96	6765.68
637.96	6765.68	639.35	6765.7	641.34	6765.75	642.33	6765.76	643.96	6765.73
644.32	6765.73	645.6	6765.69	645.96	6765.69	647.31	6765.65	648.3	6765.64
648.96	6765.62	649.62	6765.62	651.29	6765.59	651.96	6765.59	652.63	6765.55
653.28	6765.53	653.96	6765.49	655.65	6765.42	657.66	6765.31	659.24	6765.24
661.68	6765.17	662.96	6765.18	663.96	6765.21	664.7	6765.22	665.96	6765.26
666.96	6765.28	668.72	6765.23	671.74	6765.17	673.17	6765.02	675.96	6764.69
676.96	6764.59	678.14	6764.55	678.77	6764.54	681.96	6764.3	682.79	6764.29
683.12	6764.3	683.8	6764.27	686.96	6764.54	687.96	6764.68	688.09	6764.68
688.83	6764.8	689.83	6764.85	690.84	6764.89	691.07	6764.91	692.07	6764.95
693.85	6765.04	696.87	6765.25	697.04	6765.25	698.04	6765.09	698.88	6764.97
700.89	6764.59	701.9	6764.39	704.01	6764.18	705.99	6763.93	706.92	6763.82
707.98	6763.6	708.94	6763.42	708.98	6763.4	710.95	6762.81	711.96	6762.5
712.96	6761.74	713.95	6762.31	714.95	6762.62	715.94	6762.72	716.98	6762.75
718.99	6763.16	719.92	6763.52	720.92	6763.89	722.01	6764.31	724.02	6765.03
724.89	6765.23	726.03	6765.52	726.6	6765.65	727.46	6765.76	730.05	6765.86
732.46	6765.89	734.45	6765.85						

Manning's n Values		num= 6							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	20.73	.025	30.62	.04	265.77	.05	507.98	.04
573.01	.05								

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	507.98	573.01		573.3 630.03	573.3		.1	.3

LATERAL STRUCTURE

RIVER: Walton Creek
 REACH: lower-split RS: 999.7

INPUT

Description:
 Lateral structure position = Right overbank
 Distance from Upstream XS =
 Deck/Roadway Width = 5
 Weir Coefficient = .1
 Weir Flow Reference = Water Surface

Weir Embankment Coordinates		num = 490							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.54	2.32	6765.42	6.08	6765.42	6.56	6765.43	9.88	6765.43
11.3	6765.46	12.72	6765.45	16.46	6765.34	18.4	6765.36	20.17	6765.36
21.24	6765.38	23.53	6765.38	25.81	6765.42	28.34	6765.4	32.85	6765.31
34.14	6765.16	35.43	6765.26	37.67	6765.18	39.79	6765.17	41.3	6765.09
42.62	6765.12	45.02	6765.03	47.78	6765.1	49.03	6765.09	53.11	6765.02
59.44	6764.88	63.39	6764.8	64.51	6764.79	66.82	6764.74	69.52	6764.7
72.53	6764.7	76.27	6764.67	79.15	6764.67	81.56	6764.64	85.42	6764.68
87.58	6764.68	89.08	6764.66	92.09	6764.55	94.69	6764.49	97.09	6764.38
101.12	6764.35	105.1	6764.28	106.33	6764.29	111.56	6764.29	113.11	6764.28
115.52	6764.19	117.12	6764.11	121.12	6764.12	121.62	6764.1	125.05	6764.03
126.2	6764.02	129.13	6763.92	131.22	6763.88	133.52	6763.9	137.15	6763.98
137.7	6763.97	141.15	6763.97	142.18	6763.96	145.02	6763.99	147.56	6764.09
152.29	6764.31	153.79	6764.34	155.88	6764.44	158.77	6764.47	162.73	6764.38
165.83	6764.33	168.39	6764.27	173.01	6764.24	175.34	6763.99	177.2	6763.77
181.2	6763.6	183.7	6763.63	185.21	6763.69	188.93	6763.62	189.21	6763.6
190.82	6763.61	193.22	6763.58	194.42	6763.6	197.43	6763.45	201.22	6763.36
205.67	6763.37	208.39	6763.42	211.13	6763.2	211.83	6763.12	215.37	6763.17
218.91	6763.36	219.28	6763.33	222.45	6763.24	226.69	6763.26	229.52	6763.22

232.9	6762.88	233.24	6762.86	236.6	6763.04	239.71	6762.95	240.61	6762.96
243.68	6763.1	246.5	6762.92	251.96	6762.92	253.32	6762.91	255.71	6762.83
257.83	6762.83	261.24	6762.94	264.91	6762.93	266.94	6762.81	268.44	6762.81
270.57	6762.93	271.98	6763.03	273.74	6762.84	275.52	6762.69	278.92	6763.15
279.19	6763.16	284.81	6762.74	289.67	6762.82	292.18	6763.17	293.66	6763.23
294.63	6763.23	296.75	6763.15	299.55	6763.45	300.44	6763.49	300.89	6763.43
304.69	6762.82	305.71	6762.8	309.03	6762.41	310.85	6762.09	313.32	6761.63
313.34	6761.71	313.84	6761.63	315.87	6761.63	317.62	6761.49	321.06	6761.97
321.91	6762.22	326.04	6762.68	328.07	6762.68	331.12	6762.65	334.8	6762.53
339.49	6762.55	341.67	6762.59	343.39	6762.59	346.37	6762.5	347.69	6762.5
351.46	6762.55	351.98	6762.53	354.83	6762.35	356.54	6762.26	361.62	6762.25
363.66	6762.19	365.73	6762.1	366.58	6761.95	367.44	6761.64	367.73	6761.48
368.74	6761.52	369.76	6761.84	370.62	6761.81	371.87	6761.85	375.6	6762.14
376.85	6762.18	381.83	6761.84	386.34	6762.05	386.81	6762.02	390.64	6762.08
392.13	6762.03	394.93	6762.3	397.21	6762.17	399.26	6762.09	402.29	6762.36
403.52	6762.35	407.38	6762.44	410.23	6762.36	412.11	6762.27	417.54	6762.25
420.71	6762.27	422.63	6762.31	425	6762.3	427.58	6762.33	430.15	6762.29
432.88	6762.29	433.59	6762.33	437.93	6762.28	443.04	6762.12	445.62	6762.07
448.19	6762	451.09	6761.89	452.11	6761.83	459.36	6761.49	463.29	6761.5
463.66	6761.48	468.38	6761.49	472.25	6761.67	473.11	6761.66	476.47	6761.55
478.55	6761.56	480.84	6761.43	483.94	6761.43	485.13	6761.46	488.71	6761.24
493.72	6761.31	498.02	6761.3	498.87	6761.35	502.31	6761.3	504.03	6761.29
506.35	6761.33	509.05	6761.4	510.91	6761.55	514.13	6761.73	518.64	6761.81
519.5	6761.8	521.29	6761.84	524.3	6761.85	528.09	6761.65	529.38	6761.61
532.38	6761.45	534.46	6761.4	535.48	6761.41	539.55	6761.41	540.97	6761.49
544.63	6761.6	546.13	6761.56	549.93	6761.5	553.86	6761.37	554.72	6761.36
558.15	6761.17	559.9	6761.18	561.91	6761.13	563.95	6761.05	566.74	6760.91
569.86	6760.86	571.1	6760.94	575.13	6760.71	576.43	6760.71	579.63	6760.76
580.22	6760.74	583.56	6760.83	584.78	6760.84	588.22	6760.83	590.8	6760.86
595.47	6760.78	599.74	6760.88	600.25	6760.86	601.96	6760.89	604.72	6760.91
608.84	6761.01	609.67	6761.04	613.99	6761.02	614.85	6760.99	618.29	6760.91
620.75	6760.81	622.58	6760.83	625.89	6760.67	626.88	6760.69	631.05	6760.93
636.08	6761.36	642.44	6761.49	646.2	6761.6	649.03	6761.74	650.45	6761.78
653.28	6761.81	656.11	6761.96	657.45	6761.94	660.45	6761.66	662.96	6761.7
663.9	6761.67	664.96	6761.69	667.96	6761.65	669.67	6761.65	670.99	6761.49
672.46	6761.49	674.53	6761.35	676.37	6761.37	678.07	6761.13	679.97	6761.07
681.73	6760.9	683.08	6760.98	685.15	6760.59	687.48	6760.23	688.69	6759.95
689.78	6760.11	692.23	6760.18	694.98	6759.91	696.48	6759.88	701.85	6759.49
702.15	6759.51	702.86	6759.32	703.19	6759.37	706.4	6759.73	710	6759.63
713.48	6759.79	716.59	6760.7	717.02	6760.85	717.5	6760.91	720.62	6760.91
723.3	6760.96	724.1	6760.99	725.01	6761.28	727.65	6761.49	730	6762.25
731.19	6762.38	732.52	6762.4	734.73	6761.88	736.7	6761.77	738.27	6761.34
740.02	6761.4	741.81	6761.31	743.41	6761.3	745.35	6761.15	747.53	6761.17
748.77	6761.12	750.11	6761.11	752.43	6760.95	755.03	6760.92	755.98	6760.86
756.82	6760.85	759.5	6760.68	763.52	6760.59	769.43	6760.37	770.05	6760.34
773.68	6760.35	776.93	6760.39	777.55	6760.38	780.76	6760.24	783.63	6760.43
785.72	6760.15	790.33	6759.5	791.39	6759.53	792.8	6759.41	794.93	6759.28
797.07	6759.09	798.38	6759.04	800.07	6758.93	801.57	6758.87	803.74	6758.81
806.97	6758.51	807.76	6758.42	809.29	6758.34	809.8	6758.47	810.51	6758.34
811.22	6758.6	811.78	6758.63	812.63	6758.53	812.7	6758.43	813.56	6758.48
813.86	6758.3	814.43	6758.28	815.09	6758.43	816.16	6758.29	817.24	6758.42
818.75	6758.46	819.27	6758.44	820.29	6758.62	821.25	6758.52	822.2	6758.8
822.48	6758.82	823.07	6758.68	831.45	6759.5	832.47	6759.59	841.6	6760.49
845.67	6760.88	859.38	6762.22	860.23	6762.29	862.21	6762.52	864.55	6762.66
866.27	6762.72	868	6762.74	873.19	6762.74	873.82	6762.73	878.37	6762.73
879.63	6762.71	896.42	6761.55	898.25	6761.43	907.59	6760.78	908.59	6760.72
912.67	6760.44	914.64	6760.28	915.46	6760.07	916.51	6760.27	917.01	6760.28
917.1	6760.41	917.57	6760.46	918.62	6760.37	920.17	6760	920.26	6760.04
920.96	6759.95	921.78	6759.74	924.92	6759.62	925.97	6760.01	927.17	6759.66
928.17	6759.55	929.97	6759.62	930.15	6759.76	930.8	6760.06	930.97	6760.2
933.82	6760.13	936.11	6760.15	941.07	6760.08	943.9	6760.17	945.91	6760.04
948.94	6759.97	952.98	6759.98	955.99	6760.01	958.94	6760.08	960.98	6760.06
964.05	6760.05	965.89	6760.07	969.08	6760.03	971.85	6760.07	974.12	6760.07
975.13	6760.09	978.79	6760.13	981.98	6760.1	985.98	6760.03	989.23	6759.9
990.98	6759.81	993.98	6759.8	995.98	6759.82	999.31	6759.69	1000.98	6759.74
1004.35	6759.93	1005.98	6759.93	1009.38	6759.74	1010.98	6759.71	1014.42	6760.1
1015.98	6760.19	1019.46	6759.94	1020.98	6759.89	1023.47	6759.96	1025.98	6760.05
1028.98	6759.92	1030.98	6759.78	1035.58	6759.75	1039.61	6759.66	1040.98	6759.75
1044.64	6759.8	1045.98	6759.68	1049.68	6759.54	1050.98	6759.56	1055.23	6759.49
1057.22	6759.41	1059.76	6759.29	1061.19	6759.28	1064.79	6759.2	1065.98	6759.21
1069.83	6759.68	1070.98	6759.74	1074.98	6759.41	1077.89	6759.29	1080.05	6759.22

1080.91	6759.26	1085.01	6759.31	1085.95	6759.3	1086.96	6759.53	1089.98	6760.26
1090.99	6760.32	1094.94	6760.19	1095.93	6760.12	1098.04	6759.86	1100.26	6759.83
1101.71	6759.72	1102.46	6759.73	1103.19	6759.69	1104.79	6759.66	1106.8	6759.6
1107.64	6759.6	1112.1	6759.67	1112.58	6759.64	1115.51	6759.83	1115.96	6759.84
1118.21	6759.8	1119.34	6759.76	1122.04	6759.72	1124.96	6759.86	1125.45	6759.93
1125.76	6759.9	1126.94	6760.04	1127.21	6760.04	1129.47	6760.26	1135.07	6760.17
1138.81	6760.14	1140.72	6760.11	1143.83	6760.14	1147.48	6760.14	1151.98	6760.09
1154.72	6760.08	1158.37	6760.13	1160.7	6760.18	1165.36	6760.24	1166.27	6760.24
1168.86	6760.2	1176.5	6760.2	1180.37	6760.15	1185.21	6760.05	1187.36	6760.02

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6764.58	Weir Sta US (ft)	122.50
W.S. US. (ft)	6764.54	Weir Sta DS (ft)	1187.36
E.G. DS (ft)	6763.49	Min El Weir Flow (ft)	6758.28
W.S. DS (ft)	6763.41	Wr Top Wdth (ft)	1037.74
Q US (cfs)	503.94	Weir Max Depth (ft)	5.80
Q Leaving Total (cfs)	-498.85	Weir Avg Depth (ft)	2.87
Q DS (cfs)	1001.26	Weir Flow Area (sq ft)	2973.96
Perc Q Leaving	-98.69	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	-498.85	Weir Submerg	0.88
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			
Breach SSR (ft)			

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split RS: 999.6

INPUT

Description:

Station	Elevation	Data	num=	487						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	6768.11	.93	6768.11	1.08	6768.1	1.93	6768.1	2.78	6768.09	
3.93	6768.06	7.77	6767.79	8.93	6767.73	9.76	6767.73	10.76	6767.71	
12.1	6767.7	13.75	6767.67	13.93	6767.66	15.93	6767.64	16.11	6767.63	
18.93	6767.6	19.74	6767.57	20.74	6767.52	21.73	6767.48	21.93	6767.48	
22.93	6767.43	23.13	6767.43	24.27	6767.37	27.72	6767.24	28.93	6767.18	
31.15	6766.85	32.15	6766.69	32.93	6766.58	33.93	6766.41	35.16	6765.81	
36.7	6765.04	37.08	6764.87	37.7	6764.55	38.93	6764.03	40.17	6763.6	
40.69	6763.51	40.93	6763.42	42.68	6763.03	44.18	6762.68	45.93	6762.3	
46.93	6762.07	47.19	6762.04	47.67	6761.91	48.93	6761.76	49.93	6761.95	
50.2	6762.01	52.2	6762.39	52.66	6762.49	53.66	6762.65	54.93	6762.83	
55.21	6762.86	57.65	6763.2	58.22	6763.25	58.93	6763.33	62.93	6763.33	
64.23	6763.35	65.63	6763.39	65.93	6763.39	66.93	6763.42	68.24	6763.44	
68.93	6763.46	71.25	6763.43	72.25	6763.43	72.93	6763.42	73.25	6763.43	

75.93	6763.43	76.26	6763.42	77.93	6763.42	80.27	6763.39	82.59	6763.35
83.93	6763.34	84.93	6763.39	85.58	6763.4	85.93	6763.42	86.93	6763.43
87.58	6763.45	88.57	6763.46	89.29	6763.48	90.93	6763.49	91.29	6763.5
92.3	6763.5	92.56	6763.51	93.93	6763.51	95.3	6763.55	95.93	6763.56
97.55	6763.61	98.31	6763.62	102.54	6763.62	102.93	6763.63	103.93	6763.63
105.33	6763.68	105.93	6763.71	107.53	6763.76	107.93	6763.79	108.93	6763.84
110.52	6763.87	113.35	6763.93	113.93	6763.95	114.93	6763.96	115.93	6763.96
116.35	6763.97	117.36	6763.97	117.5	6763.98	118.93	6763.95	119.5	6763.95
120.5	6763.93	121.93	6763.92	122.37	6763.91	123.49	6763.91	123.93	6763.9
124.49	6763.92	124.93	6763.92	127.93	6763.98	128.48	6763.98	130.93	6764.03
131.47	6764.03	133.93	6764.08	134.46	6764.06	135.4	6764.04	135.46	6764.03
136.93	6764	138.93	6763.92	140.45	6763.92	140.93	6763.93	142.45	6763.93
144.42	6763.99	145.93	6764	146.93	6764.02	147.93	6764.03	148.93	6764.03
149.43	6764.04	150.93	6764.04	151.42	6764.05	153.93	6764.05	154.93	6764.03
155.45	6764.03	156.41	6764.01	157.45	6764.01	157.93	6764	158.93	6764
159.93	6763.98	160.46	6763.98	161.4	6763.96	162.4	6763.95	162.47	6763.97
162.93	6763.96	163.93	6763.97	165.47	6764.06	165.93	6764.08	166.93	6764.14
167.39	6764.16	168.93	6764.19	170.48	6764.18	170.93	6764.17	171.93	6764.17
172.37	6764.16	173.49	6764.16	173.93	6764.15	174.93	6764.16	175.37	6764.15
175.93	6764.16	176.36	6764.15	177.36	6764.15	177.5	6764.14	178.5	6764.14
178.93	6764.13	179.93	6764.18	180.35	6764.19	181.35	6764.24	183.52	6764.32
185.52	6764.38	187.34	6764.42	187.53	6764.4	187.93	6764.41	188.53	6764.39
188.93	6764.39	191.33	6764.2	192.33	6764.13	192.54	6764.15	192.93	6764.12
193.93	6764.12	195.32	6763.96	195.93	6763.88	196.93	6763.77	197.31	6763.72
197.55	6763.73	197.93	6763.69	198.93	6763.64	201.3	6763.42	202.3	6763.34
202.56	6763.4	202.93	6763.37	203.93	6763.42	204.93	6763.44	205.93	6763.47
206.29	6763.47	207.05	6763.49	207.29	6763.5	207.57	6763.43	207.93	6763.44
208.93	6763.35	210.58	6763.38	212.28	6763.4	212.59	6763.29	212.93	6763.29
213.93	6763.12	215.27	6762.7	215.59	6762.61	216.93	6762.19	217.27	6762.09
217.6	6762.06	217.93	6761.96	218.93	6761.76	219.6	6761.69	222.8	6761.37
223.93	6761.26	225.62	6761.43	225.93	6761.47	227.24	6761.6	227.62	6761.55
227.93	6761.58	228.93	6761.55	229.63	6761.61	230.93	6761.74	231.23	6761.76
232.23	6761.86	232.63	6761.92	232.93	6761.94	233.93	6762.07	235.22	6762.12
235.93	6762.16	237.22	6762.21	237.65	6762.34	237.93	6762.36	238.16	6762.4
238.65	6762.5	239.65	6762.73	240.21	6762.87	241.21	6763.1	242.21	6763.34
242.66	6763.37	242.93	6763.44	243.93	6763.57	244.93	6763.59	246.2	6763.63
247.19	6763.65	247.67	6763.74	247.93	6763.75	248.93	6763.88	252.18	6764.01
252.68	6764.01	253.18	6764.03	253.93	6764.04	254.93	6763.97	255.69	6763.93
257.17	6763.83	257.69	6763.77	257.93	6763.76	258.93	6763.65	260.7	6763.65
260.93	6763.64	262.16	6763.64	263.71	6763.62	265.71	6763.62	265.93	6763.63
266.71	6763.63	266.93	6763.64	268.93	6763.66	269.14	6763.67	272.14	6763.73
272.73	6763.72	276.13	6763.72	277.12	6763.71	277.74	6763.72	278.93	6763.72
279.12	6763.73	280.12	6763.74	280.75	6763.76	282.11	6763.78	284.11	6763.74
284.76	6763.71	286.1	6763.67	287.1	6763.63	287.77	6763.68	287.93	6763.67
288.93	6763.72	289.77	6763.72	289.93	6763.73	290.93	6763.73	291.09	6763.74
292.09	6763.74	292.78	6763.72	293.78	6763.71	297.08	6763.58	298.79	6763.55
302.06	6763.55	304.06	6763.53	306.81	6763.59	307.05	6763.59	308.82	6763.63
309.93	6763.63	310.04	6763.64	310.93	6763.64	311.04	6763.65	312.04	6763.67
313.83	6763.72	318.03	6763.76	319.84	6763.8	321.02	6763.84	321.85	6763.86
323.85	6763.96	324.01	6763.96	324.85	6764.01	325.01	6764.01	326.01	6764.07
327	6764.12	327.86	6764.15	329	6764.21	331.87	6764.26	331.99	6764.27
332.87	6764.26	334.03	6764.26	334.49	6764.28	335.74	6764.3	337.35	6764.34
338.06	6764.34	339	6764.36	340.24	6764.37	341.48	6764.42	342.72	6764.48
345.24	6764.58	346.44	6764.6	347.36	6764.6	349.51	6764.57	349.75	6764.58
350.94	6764.56	352.64	6764.55	353.69	6764.52	355.38	6764.5	357.07	6764.47
357.6	6764.47	358.76	6764.45	360.09	6764.44	363.83	6764.44	365.05	6764.47
365.96	6764.47	366.29	6764.46	367.39	6764.46	367.53	6764.45	368.41	6764.45
368.77	6764.44	370.25	6764.44	371.25	6764.4	372.49	6764.38	373.73	6764.35
374.55	6764.32	374.97	6764.32	376.69	6764.27	377.35	6764.26	378.69	6764.18
379.04	6764.15	383.66	6763.89	384.11	6763.89	384.9	6763.87	386.14	6763.86
387.08	6763.84	387.49	6763.84	388.14	6763.82	389.57	6763.79	391	6763.79
391.1	6763.78	393.58	6763.78	393.86	6763.79	394.82	6763.78	395.29	6763.8
396.42	6763.77	396.72	6763.8	397.3	6763.78	398.15	6763.8	398.54	6763.78
402.69	6763.78	403.16	6763.78	404.38	6763.79	405.99	6763.85	406.74	6763.87
408.47	6763.94	411.75	6763.94	412.83	6763.95	413.89	6763.88	414.67	6763.82
416.04	6763.68	417.47	6763.52	418.39	6763.58	419.59	6763.36	419.75	6763.42
420.33	6763.05	420.87	6763.86	421.05	6764.06	421.76	6764.03	422.11	6764.04
422.97	6764.03	424.42	6764	426.77	6763.97	427.48	6763.98	431.42	6764.12
433.21	6764.2	434.8	6764.25	436.07	6764.28	438.42	6764.36	439.65	6764.39
440.72	6764.39	441.08	6764.4	442.51	6764.4	443.09	6764.41	443.94	6764.41
444.44	6764.42	446.08	6764.42	447.75	6764.4	449.66	6764.37	451.89	6764.33

453.39	6764.27	454.37	6764.22	456.1	6764.15	456.76	6764.11	458.09	6764.05
462.54	6763.94	464.29	6763.91	465.21	6763.95	466.9	6764	467.54	6764.03
468.02	6764.02	468.98	6764.02	470.28	6764	471.09	6764.01	476.84	6764.01
477.94	6763.96	480.42	6763.86	481.66	6763.86	481.85	6763.85	482.9	6763.85
484.71	6763.91	485.09	6763.93	486.14	6763.96	487.18	6764	488.29	6764.05
489.01	6764.07	489.76	6764.07	491.15	6764.09	491.87	6764.09	493.3	6764.11
494.07	6764.11	495.31	6764.13	497.32	6764.13	498.31	6764.14	500.27	6764.17
500.7	6764.17	501.51	6764.19	501.88	6764.18	503.76	6764.18	503.99	6764.17
505.77	6764.17	507.71	6763.84	508.43	6763.76	508.95	6763.69	510.2	6763.55
510.47	6763.47	510.84	6763.48	511.44	6763.41	511.9	6763.28	512.53	6763.28
513.09	6763.21	513.33	6763.08	513.92	6763.08	514.22	6763.11	515.16	6763.25
515.91	6763.37	516.91	6763.51	519.28	6763.87	520.12	6763.99	521.36	6764.12
522.6	6764.26	524.06	6764.28	525.08	6764.3	526.32	6764.31	527.73	6764.07
528.35	6763.97	528.65	6763.99						

Manning's n Values				num=	5				
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24.27	.025	37.08	.05	207.05	.04	243.93	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
207.05	243.93	309.31	313.36	309.31		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 999

INPUT

Description:

Station Elevation Data			num=	489					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-6.63	6766.8	-6.11	6766.81	-5.08	6766.82	-4.36	6766.84	-.97	6766.84
-.46	6766.85	.51	6766.85	.79	6766.86	1.79	6766.86	2.12	6766.85
4.17	6766.85	4.41	6766.84	5.38	6766.84	6.23	6766.82	6.79	6766.8
9.28	6766.7	9.8	6766.69	11.23	6766.63	11.37	6766.63	12.4	6766.58
12.8	6766.57	13.42	6766.54	13.8	6766.53	15.48	6766.45	16.1	6766.43
16.8	6766.43	17.07	6766.42	17.54	6766.42	18.57	6766.4	19.02	6766.4
20.97	6766.38	21.65	6766.36	21.94	6766.36	25.84	6766.32	26.07	6766.3
26.79	6766.25	26.81	6766.24	27.79	6766.17	27.82	6766.16	28.76	6766.08
29.73	6765.99	29.88	6765.97	30.9	6765.88	31.93	6765.8	32.66	6765.75
33.63	6765.65	34.6	6765.54	35.8	6765.42	36.55	6764.86	37.53	6764.14
38.1	6763.71	38.19	6763.64	38.5	6763.42	39.13	6762.95	39.47	6762.92
39.81	6762.67	40.81	6762.26	41.18	6762.07	41.81	6761.76	42.21	6761.75
42.4	6761.46	43.24	6761.45	43.81	6761.45	44.27	6761.44	44.81	6761.44
45.3	6761.43	45.81	6761.43	46.29	6761.08	46.33	6760.95	46.81	6760.59
47.27	6760.76	47.35	6760.8	47.81	6760.97	48.38	6761.24	48.81	6761.43
49.81	6761.9	50.19	6762	50.44	6762.13	50.81	6762.23	51.81	6762.18
52.14	6762.17	52.49	6762.14	52.81	6762.13	53.52	6762.08	53.81	6762.07
54.81	6762	56.03	6761.94	57.01	6761.91	57.64	6761.9	58.66	6761.87
58.95	6761.87	59.93	6761.84	60.9	6761.82	61.75	6761.78	63.83	6761.78
64.2	6761.79	65.86	6761.79	66.75	6761.83	66.89	6761.83	67.92	6761.78
69.97	6761.7	70.82	6761.66	71	6761.66	71.62	6761.63	72.59	6761.62
73.06	6761.62	73.57	6761.61	74.55	6761.61	74.82	6761.6	75.82	6761.6
76.1	6761.61	76.54	6761.58	79.11	6761.66	79.52	6761.68	79.82	6761.68
80.82	6761.72	81.51	6761.69	82.5	6761.63	82.82	6761.62	84.49	6761.52
84.82	6761.51	85.82	6761.45	86.16	6761.45	86.48	6761.43	89.18	6761.43
89.46	6761.42	90.82	6761.42	91.19	6761.41	91.44	6761.42	94.21	6761.34
95.82	6761.29	96.23	6761.3	96.41	6761.29	97.82	6761.31	99.25	6761.34
99.82	6761.34	100.82	6761.36	102.37	6761.33	104.28	6761.29	104.36	6761.28
106.29	6761.24	106.35	6761.25	106.82	6761.24	107.34	6761.24	109.82	6761.19
110.32	6761.19	110.82	6761.18	111.32	6761.18	111.32	6761.16	111.82	6761.16
112.82	6761.12	113.34	6761.09	115.82	6760.99	116.28	6761.01	116.36	6761.07
116.82	6761.09	117.36	6761.18	118.27	6761.32	118.37	6761.33	119.26	6761.47
119.38	6761.48	120.38	6761.64	120.82	6761.7	121.25	6761.74	121.39	6761.69
121.82	6761.73	122.4	6761.71	123.24	6761.69	123.4	6761.68	124.23	6761.66
125.82	6761.61	130.82	6761.61	131.19	6761.62	131.45	6761.64	131.82	6761.65
133.18	6761.73	133.47	6761.74	135.16	6761.84	135.82	6761.87	136.49	6761.88
137.15	6761.9	137.49	6761.9	139.14	6761.93	139.51	6761.93	140.51	6761.95
141.12	6761.94	141.52	6761.87	141.82	6761.86	142.53	6761.78	146.09	6761.39
146.55	6761.37	146.82	6761.34	147.56	6761.29	147.82	6761.28	149.07	6761.19

149.82	6761.14	150.07	6761.13	150.58	6761.09	151.06	6761.07	151.58	6761.14
151.82	6761.13	152.59	6761.19	152.82	6761.2	153.6	6761.26	154.04	6761.3
155.03	6761.37	155.61	6761.42	156.03	6761.43	157.02	6761.48	158.63	6761.54
159.01	6761.56	159.64	6761.58	160.64	6761.63	161	6761.63	161.65	6761.57
161.99	6761.55	162.66	6761.49	162.98	6761.47	163.66	6761.41	164.67	6761.34
164.82	6761.32	165.68	6761.26	165.82	6761.24	165.96	6761.26	166.68	6761.24
166.82	6761.26	167.69	6761.25	170.82	6761.25	171.71	6761.32	171.93	6761.33
172.72	6761.39	173.73	6761.46	173.91	6761.48	175.9	6761.62	180.87	6761.72
181.86	6761.65	182.79	6761.59	182.86	6761.58	183.79	6761.52	183.85	6761.51
185.81	6761.37	186.81	6761.34	188.8	6761.26	189.86	6761.23	190.77	6761.19
191.76	6761.21	192.75	6761.22	192.9	6761.23	193.82	6761.24	193.91	6761.25
194.93	6761.26	195.94	6761.28	196.7	6761.37	196.95	6761.38	197.96	6761.49
198.98	6761.59	199.66	6761.65	199.99	6761.69	200.82	6761.77	201	6761.76
201.63	6761.69	201.82	6761.68	204.82	6761.38	205.05	6761.48	207.63	6761.18
212.42	6760.37	215.06	6760.13	218.01	6758.83	219.1	6757.8	219.17	6757.59
219.23	6757.51	219.29	6757.63	219.38	6757.93	220.32	6758.6	222.69	6758.71
225.06	6760.31	227.89	6760.64	230.06	6760.71	232.96	6761.08	235.06	6761.41
235.21	6760.72	235.83	6760.74	236.2	6760.8	236.45	6760.82	236.83	6760.87
237.83	6761.03	239.16	6761.23	239.49	6761.29	240.83	6761.49	242.13	6761.66
243.54	6761.86	244.1	6761.93	245.05	6762.06	245.83	6762.16	245.97	6762.15
246.88	6762.23	247.73	6762.14	247.86	6762.15	248.61	6762.09	248.87	6762.08
250.89	6761.92	251.26	6761.9	251.9	6761.88	252.14	6761.86	252.75	6761.84
253.93	6761.76	255.11	6761.69	255.94	6761.63	257.48	6761.56	257.96	6761.53
258.32	6761.56	258.66	6761.5	259.84	6761.57	260.97	6761.63	262	6761.62
262.21	6761.61	263.01	6761.6	264.02	6761.58	264.5	6761.6	264.57	6761.57
266.04	6761.63	266.26	6761.63	267.14	6761.66	267.75	6761.67	270.48	6761.74
270.67	6761.73	271.55	6761.75	272.11	6761.75	272.44	6761.76	273.12	6761.76
273.32	6761.77	274.03	6761.77	274.13	6761.78	274.71	6761.78	275.97	6761.8
276.85	6761.8	277.16	6761.81	278.17	6761.81	278.61	6761.82	279.5	6761.82
281.26	6761.84	282.14	6761.8	283.03	6761.78	283.49	6761.76	284.23	6761.74
285.24	6761.72	285.67	6761.7	286.25	6761.69	287.44	6761.73	289.4	6761.8
290.08	6761.82	290.97	6761.86	291.85	6761.88	292.32	6761.88	292.94	6761.89
293.61	6761.91	294.13	6761.91	295.31	6761.94	296.26	6761.97	297.37	6761.99
298.03	6762.01	298.38	6762.01	299.39	6762.03	299.79	6762.03	300.04	6762.05
301.41	6762.05	301.55	6762.04	304.2	6762.01	304.44	6762	305.95	6761.98
307.13	6761.98	307.47	6761.99	308.61	6762	311.26	6762.03	311.86	6762.03
312.14	6762.02	312.53	6762.04	316.59	6762.04	318.59	6762.06	319.6	6762.09
320.61	6762.11	320.97	6762.11	321.62	6762.13	322.5	6762.14	323.42	6762.14
323.68	6762.15	324.5	6762.14	325.66	6762.14	326.05	6762.13	326.67	6762.13
327.68	6762.15	328.41	6762.15	328.91	6762.17	329.59	6762.17	331.55	6762.25
332.74	6762.28	333.14	6762.28	333.75	6762.3	334.76	6762.31	335.08	6762.33
335.5	6762.33	336.68	6762.38	337.73	6762.4	339.05	6762.41	340.23	6762.43
340.82	6762.43	341.26	6762.4	341.41	6762.44	341.83	6762.41	343.03	6762.41
343.78	6762.4	344.29	6762.4	344.79	6762.39	346.14	6762.39	346.88	6762.38
347.32	6762.39	347.44	6762.38	347.89	6762.39	349.2	6762.39	349.69	6762.4
351.25	6762.4	351.85	6762.41	353.24	6762.41	353.61	6762.46	353.96	6762.46
354.5	6762.49	354.97	6762.53	355.38	6762.55	356.78	6762.65	357.14	6762.67
358.21	6762.71	359.15	6762.74	359.79	6762.74	360.02	6762.75	360.67	6762.75
361.03	6762.76	361.55	6762.76	362.69	6762.78	363.32	6762.78	364.2	6762.79
365.16	6762.81	365.97	6762.78	366.85	6762.77	368.1	6762.73	368.61	6762.72
369.11	6762.7	370.12	6762.67	370.38	6762.68	370.97	6762.64	372.12	6762.67
373.03	6762.68	373.33	6762.69	374.79	6762.71	376.19	6762.74	376.55	6762.73
376.88	6762.75	377.2	6762.74	377.44	6762.76	379.24	6762.88	380.97	6762.98
381.61	6763.02	382.25	6763.05	382.73	6763.02	382.79	6763.07	384.5	6762.97
385.38	6762.93	386.34	6762.87	387.3	6762.82	388.31	6762.83	388.91	6762.85
389.32	6762.85	389.79	6762.84	390.33	6762.88	391.35	6762.91	392.25	6762.93
393	6762.92	394.61	6762.88	395.08	6762.89	395.39	6762.88	395.97	6762.88
396.4	6762.89	397.41	6762.89	399.34	6762.84	399.95	6762.84	400.38	6762.85
401.45	6762.85	401.7	6762.86	402.46	6762.86	403.08	6762.77		

Manning's n Values		num=		5					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-6.63	.016	26.07	.025	38.19	.05	205.05	.04	235.06	.05
Bank Sta: Left	Right	Lengths: Left Channel		Right	Coeff		Contr.	Expan.	
205.05	235.06	541.75	549.59	541.75			.1	.3	

CROSS SECTION

RIVER: Walton Creek

RS: 998.8

Description:

480

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.74	.26	6765.74	.97	6765.75	1.27	6765.75	1.97	6765.76
2.97	6765.76	3.12	6765.77	3.28	6765.76	4.28	6765.76	4.96	6765.75
5.29	6765.74	5.95	6765.73	6.29	6765.73	7.12	6765.72	7.3	6765.71
7.94	6765.7	8.3	6765.7	8.94	6765.77	9.93	6765.74	10.31	6765.72
10.93	6765.71	11.32	6765.69	12.92	6765.64	13.12	6765.64	13.91	6765.6
14.33	6765.6	15.91	6765.57	16.34	6765.57	18.35	6765.53	18.89	6765.44
19.35	6765.41	20.36	6765.37	20.88	6765.34	22.12	6765.29	22.37	6765.27
23.12	6765.24	28.12	6765.24	28.4	6765.23	28.84	6765.2	30.12	6765.15
30.41	6765.13	30.84	6765.12	31.12	6765.1	31.83	6765.07	32.42	6765.05
33.12	6765.01	33.42	6765.01	33.82	6764.89	34.12	6764.89	34.82	6764.87
35.12	6764.87	35.81	6764.85	36.12	6764.85	36.81	6764.83	37.12	6764.83
37.8	6764.81	38.12	6764.81	38.44	6764.49	38.8	6764.28	39.12	6763.96
39.45	6763.65	39.79	6763.31	40.12	6763	40.45	6762.67	40.79	6762.35
41.91	6761.26	43.12	6760.09	43.47	6760.03	43.77	6759.97	44.47	6759.85
44.77	6759.79	45.77	6759.62	46.12	6759.55	47.12	6759.38	47.76	6759.26
48.12	6759.2	48.49	6759.19	48.75	6759.2	49.12	6759.2	49.5	6759.19
50.12	6759.19	51.12	6759.17	51.51	6759.17	51.74	6759.16	52.12	6759.16
52.51	6759.15	53.12	6759.15	53.51	6759.24	53.73	6759.21	54.52	6759.39
55.12	6759.54	56.12	6759.77	56.53	6759.87	57.12	6760	58.12	6760.24
58.54	6760.28	58.7	6760.35	59.54	6760.43	59.7	6760.44	60.55	6760.52
60.7	6760.54	61.55	6760.62	62.12	6760.67	62.56	6760.72	63.12	6760.77
63.68	6760.76	64.12	6760.74	65.12	6760.72	65.57	6760.7	66.58	6760.68
66.67	6760.67	67.58	6760.65	67.66	6760.66	68.12	6760.65	68.59	6760.67
68.66	6760.59	69.12	6760.62	69.65	6760.64	70.12	6760.67	71.12	6760.71
71.6	6760.74	72.12	6760.76	72.6	6760.79	73.12	6760.81	73.61	6760.75
73.63	6760.79	74.61	6760.67	75.12	6760.6	75.63	6760.54	76.12	6760.47
77.12	6760.35	77.62	6760.28	78.12	6760.22	78.61	6760.25	78.63	6760.28
79.12	6760.32	79.61	6760.38	79.64	6760.39	80.6	6760.51	81.12	6760.57
81.6	6760.64	81.65	6760.64	83.12	6760.83	83.59	6760.81	83.66	6760.76
84.12	6760.74	84.58	6760.69	85.67	6760.55	86.57	6760.43	86.67	6760.42
87.57	6760.3	88.12	6760.23	88.68	6760.23	89.12	6760.22	89.27	6760.22
89.68	6760.22	90.12	6760.21	90.69	6760.21	91.12	6760.2	91.69	6760.2
92.12	6760.19	92.7	6760.19	93.54	6760.17	93.7	6760.07	94.12	6760.05
94.71	6759.94	95.53	6759.78	95.71	6759.74	96.53	6759.58	97.72	6759.34
98.12	6759.27	98.52	6759.23	98.73	6759.28	99.12	6759.24	99.73	6759.25
100.51	6759.27	100.74	6759.27	101.5	6759.29	102.12	6759.31	102.5</	

184.29	6760.14	185.3	6760.23	186.93	6760.36	187.33	6760.37	187.91	6760.44
188.13	6760.43	188.9	6760.31	189.89	6760.14	190.13	6760.11	190.87	6759.98
191.86	6759.82	192.13	6759.78	192.4	6759.76	192.85	6759.66	193.13	6759.64
194.43	6759.6	195.81	6759.56	196.13	6759.54	197.13	6759.51	197.47	6759.58
197.78	6759.49	198.13	6759.56	198.77	6759.71	199.5	6759.87	199.75	6759.93
200.13	6760.01	202.13	6760.47	202.54	6760.48	202.71	6760.6	203.13	6760.61
203.55	6760.61	203.7	6760.68	204.13	6760.68	204.69	6760.74	205.67	6760.85
206.13	6760.91	207.13	6761.02	208.13	6761.14	209.62	6760.84	209.64	6760.84
210.61	6760.66	210.65	6760.7	211.13	6760.62	211.59	6760.58	211.66	6760.63
212.13	6760.59	212.58	6760.59	212.68	6760.51	213.13	6760.51	213.57	6760.52
213.69	6760.53	214.13	6760.54	214.71	6760.54	215.13	6760.55	215.54	6760.55
215.72	6760.56	216.53	6760.56	216.73	6760.57	217.13	6760.57	217.51	6760.58
218.13	6760.58	219.77	6760.53	220.13	6760.51	221.8	6760.46	222.13	6760.44
222.45	6760.43	222.82	6760.5	223.13	6760.49	223.43	6760.53	223.83	6760.57
224.42	6760.65	224.84	6760.7	225.41	6760.76	225.86	6760.82	226.39	6760.88
227.38	6761	227.89	6761.05	228.13	6761.08	228.9	6761.09	229.35	6761.09
230.34	6761.11	231.13	6761.11	231.32	6761.12	231.94	6761.12	232.13	6761.13
233.3	6761.13	234.28	6761.07	234.98	6761.04	235.27	6761.02	236	6760.98
236.26	6760.97	237.01	6760.93	237.24	6760.91	238.13	6760.82	238.23	6760.82
239.04	6760.85	239.22	6760.86	240.05	6760.89	240.2	6760.9	241.07	6760.93
241.19	6760.93	242.08	6760.97	242.18	6760.97	243.1	6760.93	244.11	6760.9
245.14	6760.88	245.66	6760.86	247.11	6760.83	248.17	6760.83	250.07	6760.85
251.21	6760.85	252.22	6760.86	253.03	6760.82	254.25	6760.81	255	6760.8
256.28	6760.8	256.98	6760.79	257.29	6760.79	257.96	6760.78	258.3	6760.79
258.95	6760.85	259.32	6760.88	259.94	6760.87	260.13	6760.89	260.92	6760.9
261.35	6760.9	261.91	6760.91	262.36	6760.91	262.9	6760.92	263.37	6760.92
263.88	6760.93	264.39	6760.94	265.13	6760.94	265.4	6760.95	265.86	6760.95
266.13	6760.96	266.42	6760.95	266.84	6760.96	267.13	6760.96	268.13	6760.93
269.13	6760.93	269.46	6760.94	270.79	6760.94	271.13	6760.95	273.75	6760.95
274.13	6760.94	274.74	6760.94	275.13	6760.93	275.72	6760.93	276.13	6760.92
276.56	6760.93	276.71	6760.92	277.57	6760.94	278.13	6760.95	278.32	6761.01

Manning's n Values		num= 4	
Sta	n Val	Sta	n Val
0	.016	41.91	.04
		104.05	.04
		129.05	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	104.05	129.05		78.95 79.9	78.95		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 998.7

INPUT									
Description:									
Station Elevation Data		num= 27							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.63	.44	6765.63	.95	6765.62	5.44	6765.45	5.97	6765.43
10.44	6765.37	10.99	6765.32	15.44	6765.16	16.01	6765.18	20.45	6765.08
21.03	6765.07	25.45	6765	26.05	6764.98	28	6764.85	30	6764.74
32.69	6762.99	37.55	6759.64	45.53	6758.4	47.17	6759.09	55.96	6761.83
56.71	6761.84	62.8	6761.81	63.42	6761.82	74.49	6759.52	83.28	6762.7
123.14	6763.23	149.19	6762.81						

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
0	.016	32.69	.04
		83.28	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	32.69	83.28		137.57 137.57	137.57		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 998.56

INPUT
 Description:

[illegible]

142.96	6760.02	143.28	6760.03	143.82	6760.05	144	6760.05	144.1	6760.06
144.48	6760.06	144.91	6760.12	145.03	6760.07	145.23	6760.07	145.73	6760.06
146.55	6760.06	146.63	6760.05	147.1	6760.05	147.37	6760.04	147.51	6760.04
148.03	6760.04	148.13	6760.03	148.41	6760.03	149.01	6760.02	149.43	6760.02
149.83	6760.01	150.84	6760.01	151.23	6760.02	151.46	6760.02	152.24	6760.03
152.35	6760.03	153.1	6760.04	153.3	6760.04	153.64	6760.05	154.34	6760.05
154.74	6760.06	155.56	6760.06	156.28	6760.05	156.45	6760.05	157.2	6760.04
157.44	6760.03	158.02	6760.03	158.47	6760.02	158.83	6760.02	159.25	6760.01
159.51	6760.01	159.65	6760	160.47	6760	160.54	6759.99	160.65	6760
161.9	6760								

Manning's n Values num= 5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
.78	.016	32.39	.025	42.55	.4	57.43	.02	147.51	.016

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

42.55	57.43	146.04	146.04	146.04		.3	.5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
146.13	161.9	6761.68	F

CULVERT

RIVER: Walton Creek
 REACH: lower-split RS: 998.46

INPUT

Description: Stone Lane Culverts

Distance from Upstream XS = 7

Deck/Roadway Width = 50

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 68											
Sta	Hi Cord	Lo Cord		Sta	Hi Cord	Lo Cord		Sta	Hi Cord	Lo Cord	
-24.1	6764.58	0		-23.72	6764.58	0		-19.37	6764.36	0	
-18.72	6764.33	0		-14.5	6764.23	0		-13.72	6764.19	0	
-9.63	6764.02	0		-8.72	6764	0		-7.75	6763.99	0	
-3.71	6764.05	0		.11	6763.91	0		1.29	6763.88	0	
4.98	6763.72	0		6.29	6763.67	0		9.85	6763.72	0	
11.29	6763.74	0		14.72	6763.67	0		16.29	6763.55	0	
19.59	6763.45	0		21.3	6763.47	0		24.46	6763.41	0	
26.3	6763.33	0		28.24	6763.26	0		31.3	6763.12	0	
34.2	6762.99	0		36.3	6762.91	0		39.07	6762.86	0	
41.3	6762.79	0		43.94	6762.69	0		46.3	6762.61	0	
48.81	6762.48	0		51.31	6762.33	0		53.69	6762.29	0	
56.31	6762.21	0		58.56	6762.19	0		61.31	6762.1	0	
64.22	6762.05	0		66.31	6761.97	0		68.3	6761.9	0	
71.31	6761.78	0		73.17	6761.8	0		76.32	6761.82	0	
78.04	6761.79	0		81.32	6761.69	0		82.91	6761.65	0	
86.32	6761.61	0		87.78	6761.58	0		91.32	6761.58	0	
92.65	6761.56	0		96.32	6761.55	0		100.2	6761.45	0	
101.32	6761.42	0		102.39	6761.4	0		106.33	6761.39	0	
107.26	6761.39	0		111.33	6761.4	0		112.13	6761.39	0	
116.33	6761.35	0		117	6761.32	0		121.33	6761.12	0	
121.87	6761.14	0		126.33	6761.31	0		126.75	6761.3	0	
131.34	6761.18	0		131.62	6761.18	0		136.34	6761.08	0	
137.12	6761.08	0		150	6761.08	0					

Upstream Bridge Cross Section Data

Station Elevation Data num= 291											
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
.78	6764.75	2.05	6764.79	4.72	6764.72	7.05	6764.7	9.74	6764.69		
12.05	6764.6	14.76	6764.5	17.05	6764.44	19.79	6764.4	22.05	6764.33		
24.3	6764.29	27.05	6764.18	29.83	6764.15	32.05	6764.11	32.39	6764.09		
33.74	6764.02	34.85	6763.95	37.05	6763.81	37.96	6763.53	38.9	6763.25		
41.67	6760.48	42.05	6758.69	42.55	6758.61	44.85	6758.24	47.05	6757.85		
48.93	6757.02	50.46	6757.2	50.92	6757.25	52.05	6758.01	53.89	6758.09		
54.95	6758.14	57.25	6758.62	57.43	6758.63	58.22	6759.11	61.51	6759.11		
62.05	6759.12	62.56	6759.12	63.01	6759.14	63.6	6759.14	63.97	6759.15		
64.93	6759.15	65.3	6759.16	65.89	6759.16	66.3	6759.17	66.85	6759.17		

67.3	6759.18	67.79	6759.18	67.81	6759.19	70.69	6759.19	70.93	6759.18
71.3	6759.18	71.47	6759.19	71.86	6759.19	72.34	6759.2	72.66	6759.18
73.25	6759.14	73.39	6759.13	73.46	6759.13	73.69	6759.12	74.26	6759.09
74.43	6759.08	74.76	6759.07	75.06	6759.05	75.48	6759.03	75.86	6759.01
76.26	6758.99	76.52	6758.98	76.66	6758.97	77.12	6758.95	77.46	6758.93
77.57	6758.92	77.77	6758.91	78.26	6758.88	78.62	6758.86	79.07	6758.83
79.28	6758.82	79.66	6758.79	79.87	6758.78	80.54	6758.74	80.67	6758.73
80.71	6758.73	80.78	6758.72	81.47	6758.7	81.75	6758.68	82.27	6758.65
82.29	6758.65	82.8	6758.63	83.07	6758.63	83.79	6758.65	83.96	6758.65
84.67	6758.66	84.89	6758.66	85.3	6758.67	85.47	6758.67	85.93	6758.68
86.27	6758.69	86.8	6758.7	86.98	6758.7	87.07	6758.71	91.16	6758.71
91.32	6758.7	91.88	6758.71	92.21	6758.68	92.68	6758.64	92.83	6758.62
93.25	6758.58	93.48	6758.62	94.23	6758.72	94.28	6758.72	94.3	6758.73
94.33	6758.73	95.08	6758.72	95.84	6758.72	95.88	6758.71	96.39	6758.71
96.69	6758.69	97.34	6758.68	97.44	6758.68	97.49	6758.67	97.65	6758.66
98.29	6758.63	98.48	6758.62	98.85	6758.63	99.09	6758.63	99.53	6758.64
99.89	6758.65	100.2	6758.65	100.34	6758.66	100.7	6758.66	101.2	6758.67
101.52	6758.68	101.6	6758.68	101.75	6758.69	102.34	6758.7	102.64	6758.7
103.15	6758.71	103.16	6758.68	103.67	6758.7	103.98	6758.68	104.55	6758.64
104.71	6758.63	104.79	6758.63	105.13	6758.61	105.61	6758.57	105.74	6758.56
105.96	6758.55	106.43	6758.51	106.77	6758.49	107.25	6758.45	107.36	6758.44
107.81	6758.41	108.07	6758.39	108.76	6758.34	108.89	6758.34	109.07	6758.35
109.71	6758.38	109.88	6758.37	110.16	6758.4	110.53	6758.4	110.91	6758.42
111.34	6758.43	111.57	6758.43	111.94	6758.44	112.16	6758.45	112.97	6758.47
113	6758.47	113.8	6758.49	114.01	6758.49	114.37	6758.55	114.62	6758.6
115.05	6758.67	115.44	6758.74	115.77	6758.8	116.08	6758.85	116.26	6758.87
116.94	6759	117.08	6759.02	117.11	6759.03	117.18	6759.04	117.9	6759.11
118.15	6759.16	118.58	6759.21	118.71	6759.23	119.18	6759.29	119.53	6759.3
119.98	6759.31	120.21	6759.32	120.35	6759.32	120.87	6759.34	121.17	6759.34
121.25	6759.35	121.38	6759.35	121.99	6759.37	122.28	6759.38	122.79	6759.39
122.81	6759.39	123.32	6759.41	123.63	6759.43	124.19	6759.43	124.35	6759.44
126.42	6759.44	126.9	6759.43	128.54	6759.43	128.74	6759.44	129.36	6759.47
129.52	6759.48	129.8	6759.73	130.18	6759.85	130.55	6760.22	131	6760.29
131.2	6760.43	131.59	6760.51	131.81	6760.55	132.6	6760.71	132.62	6760.71
132.63	6760.72	132.67	6760.71	133.45	6760.57	133.66	6760.44	134.01	6760.22
134.27	6760.06	134.69	6759.8	135.09	6759.81	135.41	6759.82	135.72	6759.83
135.91	6759.84	136.61	6759.86	136.73	6759.87	136.81	6759.87	137.55	6759.89
137.79	6759.9	138.21	6759.92	138.36	6759.91	138.83	6759.93	139.18	6759.93
139.62	6759.94	139.86	6759.94	140	6759.95	140.54	6759.96	140.82	6759.97
141.02	6759.97	141.64	6759.99	141.93	6760	142.42	6760.01	142.46	6760.01
142.96	6760.02	143.28	6760.03	143.82	6760.05	144	6760.05	144.1	6760.06
144.48	6760.06	144.91	6760.12	145.03	6760.07	145.23	6760.07	145.73	6760.06
146.55	6760.06	146.63	6760.05	147.1	6760.05	147.37	6760.04	147.51	6760.04
148.03	6760.04	148.13	6760.03	148.41	6760.03	149.01	6760.02	149.43	6760.02
149.83	6760.01	150.84	6760.01	151.23	6760.02	151.46	6760.02	152.24	6760.03
152.35	6760.03	153.1	6760.04	153.3	6760.04	153.64	6760.05	154.34	6760.05
154.74	6760.06	155.56	6760.06	156.28	6760.05	156.45	6760.05	157.2	6760.04
157.44	6760.03	158.02	6760.03	158.47	6760.02	158.83	6760.02	159.25	6760.01
159.51	6760.01	159.65	6760	160.47	6760	160.54	6759.99	160.65	6760
161.9	6760								

Manning's n Values				num=		5					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
.78	.016	32.39	.025	42.55	.4	57.43	.02	147.51	.016		

Bank Sta: Left	Right	Coeff	Contr.	Expan.
42.55	57.43		.3	.5

Ineffective Flow	num=		1	
Sta L	Sta R	Elev	Permanent	
146.13	161.9	6761.68	F	

Downstream	Deck/Roadway	Coordinates									
num=		67									
Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
-15.53	6764.58	0	-15.15	6764.58	0	-10.8	6764.36	0			
-10.15	6764.33	0	-5.93	6764.23	0	-5.15	6764.19	0			
-1.06	6764.02	0	-.15	6764	0	.82	6763.99	0			
4.86	6764.05	0	8.66	6763.91	0	9.86	6763.88	0			
13.55	6763.72	0	14.86	6763.67	0	18.42	6763.72	0			
19.86	6763.74	0	23.29	6763.67	0	24.86	6763.55	0			
28.16	6763.45	0	29.87	6763.47	0	33.03	6763.41	0			

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.65	.47	6763.65	.88	6763.64	1.08	6763.64	1.68	6763.63
5.22	6763.63	5.82	6763.64	6.15	6763.64	6.61	6763.65	7.4	6763.65
8.01	6763.63	8.19	6763.63	8.25	6763.62	9.31	6763.62	9.77	6763.61
10.36	6763.61	10.56	6763.6	11.36	6763.6	11.42	6763.59	11.54	6763.59
12.15	6763.58	12.47	6763.58	12.94	6763.55	13.12	6763.54	13.52	6763.51
13.73	6763.5	14.33	6763.45	14.52	6763.44	14.58	6763.44	14.7	6763.43
15.31	6763.39	15.63	6763.37	16.1	6763.33	16.28	6763.33	16.69	6763.31
16.89	6763.3	17.49	6763.27	17.52	6763.27	17.68	6763.26	17.74	6763.25
17.86	6763.24	18.47	6763.17	18.8	6763.11	19.26	6763	19.45	6762.95
19.85	6762.85	20.05	6762.8	20.66	6762.65	20.84	6762.6	20.9	6762.59
20.91	6762.59	21.03	6762.55	21.63	6762.34	21.96	6762.27	22.42	6762.06
22.61	6762.02	23.01	6761.85	23.21	6761.93	23.82	6762.04	24	6762.08
24.07	6761.99	24.19	6761.77	24.79	6760.6	25.12	6760.04	25.59	6758.87
25.77	6759.14	26.17	6758.28	26.38	6758.35	26.98	6758.58	27.17	6758.86
27.23	6758.83	27.35	6758.73	27.96	6759.56	28.28	6759.12	28.75	6759.1
28.93	6759.09	29.34	6759.08	29.54	6759.07	30.14	6759.04	30.33	6759.04
30.39	6759.03	30.51	6759.04	31.12	6759.01	31.44	6759.02	31.91	6759.03
32.09	6759.05	32.5	6759.06	32.7	6759.08	33.31	6759.13	33.41	6759.14
33.49	6759.14	33.55	6759.15	33.68	6759.16	34.28	6759.24	34.61	6759.28
35.07	6759.08	35.26	6759.18	35.66	6759.05	35.86	6758.98	36.47	6758.62
36.65	6758.52	36.71	6758.47	36.84	6758.37	37.44	6757.81	37.77	6757.56
38.23	6757.15	38.42	6757.06	38.82	6756.72	39.03	6756.75	39.63	6756.49
39.82	6756.48	39.88	6756.51	40	6756.42	40.61	6756.79	40.93	6756.42
41.4	6756.51	41.58	6757.3	41.99	6757.54	42.19	6757.73	42.79	6757.62
42.98	6757.67	43.04	6757.68	43.16	6757.57	43.77	6758.07	44.09	6757.61
44.56	6757.92	44.74	6757.71	45.15	6757.91	45.35	6758	45.91	6758.28
45.96	6758.3	46.14	6758.41	46.2	6758.42	46.32	6758.48	46.93	6758.77
47.26	6758.93	47.72	6759.16	47.91	6759.24	48.31	6759.44	48.51	6759.53
49.12	6759.77	49.3	6759.84	49.36	6759.86	49.49	6759.86	50.09	6759.83
50.42	6759.82	50.88	6759.79	51.07	6759.79	51.47	6759.77	51.67	6759.76
52.28	6759.66	52.46	6759.64	52.53	6759.63	52.65	6759.61	53.26	6759.52
53.58	6759.47	54.05	6759.4	54.23	6759.37	54.63	6759.31	54.84	6759.31
55.44	6759.3	55.81	6759.3	56.42	6759.27	56.74	6759.26	57.21	6759.24
57.39	6759.23	57.8	6759.22	58	6759.21	58.6	6759.18	58.97	6759.18
59.58	6759.19	59.9	6759.17	60.37	6759.18	60.56	6759.16	61.16	6759.16
61.77	6759.13	62.01	6759.13	62.14	6759.12	62.74	6759.14	63.07	6

87.43	6756.76	88.04	6756.72	88.37	6756.7	88.83	6756.68	89.02	6756.67
89.42	6756.64	89.62	6756.63	90.23	6756.59	90.41	6756.57	90.47	6756.57
90.6	6756.58	91.04	6756.53	91.2	6756.51	91.53	6756.53	91.99	6756.56
92.18	6756.55	92.58	6756.57	92.78	6756.58	93.64	6756.58	93.76	6756.59
94.36	6756.6	94.69	6756.61	95.16	6756.62	95.34	6756.63	95.74	6756.64
95.95	6756.66	96.55	6756.7	96.74	6756.72	96.8	6756.73	96.92	6756.73
97.53	6756.77	97.85	6756.77	98.32	6756.85	98.5	6756.79	98.91	6756.83
99.11	6756.85	99.71	6756.92	99.9	6756.95	99.96	6756.95	100.08	6756.98
100.69	6757.09	101.01	6757.18	101.48	6757.36	101.66	6757.43	102.07	6757.59
102.27	6757.65	102.88	6757.81	103.06	6757.86	103.12	6757.87	103.25	6757.88
103.85	6758	104.18	6758.02	104.64	6758.02	104.83	6758.21	105.23	6758.25
105.43	6758.29	106.04	6758.55	106.22	6758.59	106.29	6758.61	106.41	6758.64
106.52	6758.66	107.01	6758.75	107.34	6758.85	107.8	6758.89	107.99	6758.99
108.39	6759.04	108.6	6759.07	109.2	6759.15	109.39	6759.17	109.45	6759.18
109.57	6759.19	110.18	6759.27	110.5	6759.31	110.97	6759.37	111.15	6759.41
111.56	6759.46	111.76	6759.49	112.36	6759.58	112.6	6759.91	112.98	6759.92
113.38	6759.94	113.77	6759.95	114.18	6759.97	114.44	6759.97	114.56	6759.98
114.94	6759.99	115.35	6760.01	115.49	6760.01	115.76	6760.02	116.14	6760.03
116.54	6760.05	116.93	6760.06	117.34	6760.08	117.6	6760.09	117.72	6760.1
118.1	6760.13	118.51	6760.17	118.65	6760.18	118.93	6760.2	119.31	6760.23
119.71	6760.27	120.1	6760.3	120.51	6760.33	120.76	6760.36	120.89	6760.37
121.27	6760.39	121.68	6760.42	121.81	6760.43	122.09	6760.45	122.47	6760.48
122.87	6760.5	123.26	6760.52	123.67	6760.54	123.92	6760.55	124.05	6760.55
124.43	6760.57	124.84	6760.58	124.98	6760.59	125.25	6760.6	125.63	6760.61
126.03	6760.63	126.42	6760.64	126.83	6760.66	127.08	6760.67	127.21	6760.67
127.59	6760.69	128	6760.7	128.14	6760.71	128.41	6760.72	128.79	6760.74
129.19	6760.75	129.58	6760.76	129.99	6760.77	130.25	6760.78	130.37	6760.78
130.75	6760.79	131.16	6760.81	131.3	6760.82	131.57	6760.83	131.95	6760.84
132.35	6760.86	132.74	6760.87	133.09	6760.87	133.39	6760.88	133.58	6760.88
134.4	6760.9	134.45	6760.9	135.26	6760.92	135.44	6760.92	135.72	6760.93
136.1	6760.93	136.46	6760.94	136.94	6760.95	137.04	6760.93	137.49	6760.94
137.77	6760.93	138.35	6760.92	140.56	6760.92	140.99	6760.93	141.13	6760.92
141.58	6760.93	141.97	6760.94	142.3	6760.95	142.61	6760.96	142.8	6760.96
143.62	6760.99	143.68	6760.99	144.48	6761.01	144.66	6761.01	144.94	6761.02
145.32	6761.03	145.68	6761.04	146.16	6761.05	146.25	6761.05	146.71	6761.06
147	6761.07	147.57	6761.08	147.83	6761.08	148.29	6761.09	148.67	6761.1
150.35	6761.1	150.8	6761.09	152.91	6761.09	153.7	6761.08	153.88	6761.08
154.15	6761.07	154.54	6761.07	154.9	6761.06	155.38	6761.05	155.47	6761.05
155.93	6761.04	156.22	6761.03	156.79	6761.02	156.95	6761.02	157.05	6761.01
157.52	6761.01	157.89	6761	158.1	6761	158.73	6760.99	159.57	6760.99
160.02	6761	160.41	6761	160.74	6761.01	161.25	6761.01	162.05	6761
162.08	6761	162.14	6760.99	162.92	6760.79	163.1	6760.78	163.37	6760.78
163.76	6760.77	164.12	6760.76	164.6	6760.75	164.69	6760.75	165.14	6760.74
165.17	6760.81								

Manning's n Values		num=		4	
Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24	.025	34.61	.04
				112.36	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	34.61	112.36	.3	.5	

Upstream Embankment side slope	=	3 horiz. to 1.0 vertical
Downstream Embankment side slope	=	3 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.98
Elevation at which weir flow begins	=	6762
Energy head used in spillway design	=	
Spillway height used in design	=	
Weir crest shape	=	Broad Crested

Number of Culverts = 1

Culvert Name	Shape	Rise	Span
Culvert #1	Circular	4	
FHWA Chart # 2 - Corrugated Metal Pipe Culvert			
FHWA Scale # 3 - Pipe projecting from fill			
Solution Criteria = Highest U.S. EG			
Culvert Upstrm Dist	Length	Top n	Bottom n
		Depth Blocked	Entrance Loss Coef
			Exit Loss
	21	120	.024
		.013	0
			.5
Upstream Elevation	=	6756.5	

Station	Elevation	Data	num=	471					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.65	.47	6763.65	.88	6763.64	1.08	6763.64	1.68	6763.63
5.22	6763.63	5.82	6763.64	6.15	6763.64	6.61	6763.65	7.4	6763.65
8.01	6763.63	8.19	6763.63	8.25	6763.62	9.31	6763.62	9.77	6763.61
10.36	6763.61	10.56	6763.6	11.36	6763.6	11.42	6763.59	11.54	6763.59
12.15	6763.58	12.47	6763.58	12.94	6763.55	13.12	6763.54	13.52	6763.51
13.73	6763.5	14.33	6763.45	14.52	6763.44	14.58	6763.44	14.7	6763.43
15.31	6763.39	15.63	6763.37	16.1	6763.33	16.28	6763.33	16.69	6763.31
16.89	6763.3	17.49	6763.27	17.52	6763.27	17.68	6763.26	17.74	6763.25
17.86	6763.24	18.47	6763.17	18.8	6763.11	19.26	6763	19.45	6762.9
19.85	6762.85	20.05	6762.8	20.66	6762.65	20.84	6762.6	20.9	6762.59
20.91	6762.59	21.03	6762.55	21.63	6762.34	21.96	6762.27	22.42	6762.06
22.61	6762.02	23.01	6761.85	23.21	6761.93	23.82	6762.04	24	6762.08
24.07	6761.99	24.19	6761.77	24.79	6760.6	25.12	6760.04	25.59	6758.87
25.77	6759.14	26.17	6758.28	26.38	6758.35	26.98	6758.58	27.17	6758.86
27.23	6758.83	27.35	6758.73	27.96	6759.56	28.28	6759.12	28.75	6759.1
28.93	6759.09	29.34	6759.08	29.54	6759.07	30.14	6759.04	30.33	6759.04
30.39	6759.03	30.51	6759.04	31.12	6759.01	31.44	6759.02	31.91	6759.03
32.09	6759.05	32.5	6759.06	32.7	6759.08	33.31	6759.13	33.41	6759.14
33.49	6759.14	33.55	6759.15	33.68	6759.16	34.28	6759.24	34.61	6759.28
35.07	6759.08	35.26	6759.18	35.66	6759.05	35.86	6758.98	36.47	6758.62
36.65	6758.52	36.71	6758.47	36.84	6758.37	37.44	6757.81	37.77	6757.56
38.23	6757.15	38.42	6757.06	38.82	6756.72	39.03	6756.75	39.63	6756.49
39.82	6756.48	39.88	6756.51	40	6756.42	40.61	6756.79	40.93	6756.42
41.4	6756.51	41.58	6757.3	41.99	6757.54	42.19	6757.73	42.79	6757.62
42.98	6757.67	43.04	6757.68	43.16	6757.57	43.77	6758.07	44.09	6757.61
44.56	6757.92	44.74	6757.71	45.15	6757.91	45.35	6758	45.91	6758.28
45.96	6758.3	46.14	6758.41	46.2	6758.42	46.32	6758.48	46.93	6758.77
47.26	6758.93	47.72	6759.16	47.91	6759.24	48.31	6759.44	48.51	6759.53
49.12	6759.77	49.3	6759.84	49.36	6759.86	49.49	6759.86	50.09	6759.83
50.42	6759.82	50.88	6759.79	51.07	6759.79	51.47	6759.77	51.67	6759.76
52.28	6759.66	52.46	6759.64	52.53	6759.63	52.65	6759.61	53.26	6759.52
53.58	6759.47	54.05	6759.4	54.23	6759.37	54.63	6759.31	54.84	6759.31
55.44	6759.3	55.81	6759.3	56.42	6759.27	56.74	6759.26	57.21	6759.24
57.39	6759.23	57.8	6759.22	58	6759.21	58.6	6759.18	58.97	6759.18
59.58	6759.19	59.9	6759.17	60.37	6759.18	60.56	6759.16	61.16	6759.16
61.77	6759.13	62.01	6759.13						

97.53	6756.77	97.85	6756.77	98.32	6756.85	98.5	6756.79	98.91	6756.83
99.11	6756.85	99.71	6756.92	99.9	6756.95	99.96	6756.95	100.08	6756.98
100.69	6757.09	101.01	6757.18	101.48	6757.36	101.66	6757.43	102.07	6757.59
102.27	6757.65	102.88	6757.81	103.06	6757.86	103.12	6757.87	103.25	6757.88
103.85	6758	104.18	6758.02	104.64	6758.02	104.83	6758.21	105.23	6758.25
105.43	6758.29	106.04	6758.55	106.22	6758.59	106.29	6758.61	106.41	6758.64
106.52	6758.66	107.01	6758.75	107.34	6758.85	107.8	6758.89	107.99	6758.99
108.39	6759.04	108.6	6759.07	109.2	6759.15	109.39	6759.17	109.45	6759.18
109.57	6759.19	110.18	6759.27	110.5	6759.31	110.97	6759.37	111.15	6759.41
111.56	6759.46	111.76	6759.49	112.36	6759.58	112.6	6759.91	112.98	6759.92
113.38	6759.94	113.77	6759.95	114.18	6759.97	114.44	6759.97	114.56	6759.98
114.94	6759.99	115.35	6760.01	115.49	6760.01	115.76	6760.02	116.14	6760.03
116.54	6760.05	116.93	6760.06	117.34	6760.08	117.6	6760.09	117.72	6760.1
118.1	6760.13	118.51	6760.17	118.65	6760.18	118.93	6760.2	119.31	6760.23
119.71	6760.27	120.1	6760.3	120.51	6760.33	120.76	6760.36	120.89	6760.37
121.27	6760.39	121.68	6760.42	121.81	6760.43	122.09	6760.45	122.47	6760.48
122.87	6760.5	123.26	6760.52	123.67	6760.54	123.92	6760.55	124.05	6760.55
124.43	6760.57	124.84	6760.58	124.98	6760.59	125.25	6760.6	125.63	6760.61
126.03	6760.63	126.42	6760.64	126.83	6760.66	127.08	6760.67	127.21	6760.67
127.59	6760.69	128	6760.7	128.14	6760.71	128.41	6760.72	128.79	6760.74
129.19	6760.75	129.58	6760.76	129.99	6760.77	130.25	6760.78	130.37	6760.78
130.75	6760.79	131.16	6760.81	131.3	6760.82	131.57	6760.83	131.95	6760.84
132.35	6760.86	132.74	6760.87	133.09	6760.87	133.39	6760.88	133.58	6760.88
134.4	6760.9	134.45	6760.9	135.26	6760.92	135.44	6760.92	135.72	6760.93
136.1	6760.93	136.46	6760.94	136.94	6760.95	137.04	6760.93	137.49	6760.94
137.77	6760.93	138.35	6760.92	140.56	6760.92	140.99	6760.93	141.13	6760.92
141.58	6760.93	141.97	6760.94	142.3	6760.95	142.61	6760.96	142.8	6760.96
143.62	6760.99	143.68	6760.99	144.48	6761.01	144.66	6761.01	144.94	6761.02
145.32	6761.03	145.68	6761.04	146.16	6761.05	146.25	6761.05	146.71	6761.06
147	6761.07	147.57	6761.08	147.83	6761.08	148.29	6761.09	148.67	6761.1
150.35	6761.1	150.8	6761.09	152.91	6761.09	153.7	6761.08	153.88	6761.08
154.15	6761.07	154.54	6761.07	154.9	6761.06	155.38	6761.05	155.47	6761.05
155.93	6761.04	156.22	6761.03	156.79	6761.02	156.95	6761.02	157.05	6761.01
157.52	6761.01	157.89	6761	158.1	6761	158.73	6760.99	159.57	6760.99
160.02	6761	160.41	6761	160.74	6761.01	161.25	6761.01	162.05	6761
162.08	6761	162.14	6760.99	162.92	6760.79	163.1	6760.78	163.37	6760.78
163.76	6760.77	164.12	6760.76	164.6	6760.75	164.69	6760.75	165.14	6760.74
165.17	6760.81								

Manning's n Values		num= 4					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24	.025	34.61	.04	112.36	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	34.61	112.36		59.41 59.41	59.41		.3	.5

LATERAL STRUCTURE

RIVER: Walton Creek
 REACH: lower-split RS: 998.35

INPUT

Description:

Lateral structure position = Right overbank

Distance from Upstream XS =

Deck/Roadway Width = 5

Weir Coefficient = .1

Weir Flow Reference = Water Surface

Weir Embankment Coordinates num = 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.02	3.47	6761.09	8.2	6761.14	11.04	6761.15	17.01	6761.21
19.56	6761.2	22.32	6761.25	29.38	6761.24	32.38	6761.28	34.39	6761.27
40.27	6761.21	44.66	6761.25	47.41	6761.25	51.04	6761.29	53.17	6761.25
56.48	6761.23	57.42	6761.24	64.87	6761.24	69.44	6761.27	73.44	6761.27
77.54	6761.24	82.37	6761.38	87.45	6761.26	92.46	6761.18	98.1	6761.28
103.29	6761.28	107.49	6761.26	109.42	6761.23	112.63	6761.21	113.67	6761.18
117.47	6761.15	119.08	6761.17	123.01	6761.17	124.05	6761.2	128.2	6761.21
132.6	6761.27	133.39	6761.26	142.26	6761.26	146.88	6761.35	150.95	6761.34
156.75	6761.35	162.45	6761.43	165.57	6761.42	167.38	6761.38	169.31	6761.41
171.8	6761.42	174.91	6761.46	178.02	6761.46	181.14	6761.49	186.69	6761.5

191.52	6761.46	192.49	6761.48	199.53	6761.4	202.15	6761.4	207.09	6761.24
212.77	6761.22	217.47	6761.26	221.47	6761.28	223.69	6761.27	227.26	6761.23
233.55	6761.19	238.22	6761.2	242.55	6761.31	247.3	6761.25	248.56	6761.26
252.38	6761.22	253.79	6761.23	257.56	6761.21	259.56	6761.18	262.57	6761.21
264.17	6761.25	267.57	6761.23	269.36	6761.17	272.66	6761.18	277.58	6761.22
280.78	6761.22	282.58	6761.24	283.89	6761.21	287.58	6761.17	292.2	6761.14
297.39	6761.16	307.6	6761.17	309.6	6761.15	315.6	6761.14	317.09	6761.11
324.37	6761.04	327.61	6761.03	331.67	6760.98	336.56	6760.88	338.52	6760.86
342.61	6760.78	346.61	6760.74	347.61	6760.71	352	6760.71	356.61	6760.58
357.61	6760.57	361.04	6760.4	362.62	6760.34	366.62	6760.38	372.45	6760.38
377.56	6760.28	380.62	6760.32	387.47	6760.45	390.62	6760.44	392.89	6760.41
398.01	6760.57	402.62	6760.64	406.19	6760.78	413.3	6761.01	417.12	6761.22
418.1	6761.26	422.64	6761.76	422.91	6761.76	427.71	6761.95	432.51	6761.91
435.65	6761.96	438.02	6761.98	441.15	6761.92	447.42	6761.87	451.6	6761.72
456.83	6761.73	461.32	6761.67	463.1	6761.7	467.08	6761.71	470.68	6761.69
474.68	6761.75	477.73	6761.82	480.69	6761.91	482.47	6761.92	485.39	6762.16
489.27	6762.17	492.2	6762.22	497.7	6762.28	499.96	6762.17	502.7	6762.16
504.7	6762.25	507.73	6762.25	508.71	6762.23	512.59	6762.1	514.53	6762.08
519.71	6762.14	524.17	6762.1	527.71	6762.12	528.71	6762.07	532.71	6762.05
537.58	6761.95	538.81	6761.95	542.73	6761.9	547.72	6761.95	549.5	6761.92
552.72	6761.82	557.72	6761.83	562.72	6761.72	567.48	6761.79	571.61	6761.74
572.81	6761.71	577.8	6761.7	582.53	6761.8	587.74	6761.75	591.74	6761.66
597.1	6761.65	603.58	6761.56	606.81	6761.55	611.67	6761.49	613.61	6761.45
616.99	6761.44	617.75	6761.46	621.11	6761.46	625.75	6761.43	627.75	6761.43
632.76	6761.35	635.95	6761.35	637.9	6761.38	640.71	6761.32	642.77	6761.33
645.86	6761.16	649.55	6760.99	652.47	6760.88	653.08	6760.83	655.77	6760.51
657.77	6760.21	663.39	6759.56	667.77	6759.07	669.95	6759.02	672.68	6759
674.81	6758.88	677.72	6758.68	679.66	6758.65	682.99	6758.65	687.78	6758.48
689.78	6758.52	692.78	6758.55	697.15	6758.63	702.98	6758.88	704.79	6758.92
707.88	6758.93	713.75	6759.12	717.79	6759.38	722.79	6759.58	727.79	6759.56
728.43	6759.58	732.79	6759.84	733.79	6759.87	737.8	6759.88	738.8	6759.93
743.8	6760.13	747.8	6760.32	751.68	6760.45	760.88	6760.78	768.55	6761.02
769.8	6761.07	772.8	6761.15	780.3	6760.75	782.25	6760.66	782.36	6760.72
788.12	6760.32	792.04	6760.3	792.81	6760.32	796.93	6760.49	797.71	6760.46
800.85	6760.59	804.76	6760.7	806.72	6760.77	807.7	6760.78	811.61	6760.87
813.05	6760.85	815.81	6760.95	821.4	6761.11	822.25	6761.11	826.29	6761.22
827.82	6761.21	831.18	6760.78	832.82	6760.79	836.08	6760.58	840.82	6760.45
842.93	6760.47	845.78	6760.53	847.82	6760.67	850.76	6761.12	852.71	6760.99
855.65	6761.03	858.05	6760.99	860.83	6760.9	862.5	6760.88	865.44	6760.7
867.83	6760.69	870.83	6760.52	873.26	6760.45	875.22	6760.32	877.83	6760.35
880.11	6760.26	885.01	6760.42	887.72	6760.36	889.9	6760.36	894.88	6760.3
897.83	6760.14	902.62	6760.23	904.58	6760.21	907.84	6760.36	909.47	6760.28
912.84	6760.21	914.84	6760.31	917.84	6760.32	919.26	6760.26	922.84	6760.26
924.15	6760.22	928.07	6760.25	932.96	6760.24	937.84	6760.28	942.95	6760.3
944.7	6760.32	948.06	6760.32	949.85	6760.34	952.53	6760.31	956.85	6760.34
958.4	6760.33	968.19	6760.33	972.1	6760.39	983.5	6760.37	991.86	6760.3
998.18	6760.26	1001.25	6760.18	1002.27	6760.17	1007.33	6760.07	1012.23	6760.12
1018.1	6760.13	1021.71	6760.22	1027.89	6760.21	1031.8	6760.09	1032.87	6760.09
1036.69	6760.22	1039.1	6760.22	1042.87	6760.24	1046.87	6760.17	1047.87	6760.13
1052.87	6760.12	1056.27	6759.93	1060.18	6759.83	1065.88	6759.58	1070.94	6759.43
1072.85	6759.33	1075.92	6759.26	1077.8	6759.32	1080.73	6759.31	1082.69	6759.37
1085.62	6759.33	1088.56	6759.35	1090.52	6759.4	1092.88	6759.37	1095.41	6759.24
1097.88	6759.18	1099.45	6759.17	1102.88	6759.11	1105.2	6759.11	1107.89	6759.28
1110.09	6759.18	1112.89	6759.01	1114.98	6759.01	1116.94	6758.97	1119.9	6758.94
1122.81	6758.86	1124.77	6758.85	1127.89	6758.72	1132.89	6759.05	1134.55	6759.08
1137.89	6758.81	1140.36	6758.87	1142.89	6758.89	1144.34	6758.99	1147.9	6759.41
1149.23	6759.48	1152.63	6759.81	1155.11	6759.95	1158.77	6760.05	1163.88	6760.21
1168.81	6760.31	1171.74	6760.51	1173.7	6760.61	1176.64	6760.57	1178.59	6760.56
1182.9	6760.32	1184.9	6760.03	1185.9	6760.03	1187.91	6760.36	1188.91	6760.38
1192.91	6760.55	1198.17	6760.4	1198.66	6760.29	1199.68	6760.35	1203.06	6760.26
1207.87	6760.46	1209.81	6760.44	1216.91	6760.32	1217.07	6760.34	1220.14	6760.29
1223.21	6760.22	1227.92	6760.23	1231.44	6760.3	1233.44	6760.38	1237.31	6760.39
1241.92	6760.48	1243.18	6760.52	1247.92	6760.77	1252.97	6760.68	1257.99	6760.49
1259.01	6760.44	1267.92	6760.1	1272.93	6760.38	1277.42	6760.29	1280.49	6760.29
1284.58	6760.33	1287.93	6760.32	1289.7	6760.39	1292.76	6760.25	1294.81	6760.31
1297.98	6760.32	1298.9	6760.18	1299.92	6760.12	1301.97	6760.27	1302.99	6760.54
1304.83	6760.49	1307.93	6760.46	1309.94	6759.93	1310.94	6759.91	1311.68	6760.04
1312.94	6760.48	1315.6	6760.23	1318.33	6760.11	1320.49	6760.09	1322.94	6759.9
1323.94	6759.53	1325.39	6759.55	1327.94	6759.75	1330.28	6759.63	1332.94	6759.57
1335.17	6759.57	1338.11	6759.43	1340.06	6759.29	1342.88	6759.4	1344.64	6759.37
1349.3	6758.62	1350.37	6758.49	1351.44	6758.49	1353.57	6758.74	1359.97	6758.9

1363.74	6759.07	1365.3	6759.09	1368.77	6759.1	1371.89	6759.14	1374.9	6759.27
1378.16	6759.33	1383.43	6759.53	1385.56	6759.63	1388.76	6759.39	1389.82	6759.47
1390.89	6759.77	1395.46	6759.66	1396.02	6759.68	1399.13	6759.7	1401.55	6759.51
1404.75	6759.01	1405.82	6758.98	1406.81	6759.05	1407.95	6758.96	1410.8	6758.69
1412.21	6758.61	1414.7	6758.37	1418.53	6758.14	1421.41	6758.07	1423.26	6757.98
1423.73	6757.85	1425.42	6757.56	1426.37	6757.45	1427.11	6757.26	1428.21	6757.17
1430.06	6757.17	1433.31	6757.23	1434.53	6757.2	1438.54	6756.87	1439.96	6756.86
1445.68	6756.68	1447.6	6756.57	1449.79	6756.48	1453.59	6756.36	1456.6	6756.33
1458.52	6756.38	1461.46	6756.28	1466.63	6756	1468.64	6755.92	1472.72	6755.88
1473.65	6755.9	1474.66	6755.62	1475.66	6755.6	1478.67	6755.86	1483.64	6755.23
1488.36	6755.02	1493.72	6754.6	1494.56	6754.55	1498.74	6754.49	1500.03	6754.46
1503.75	6754.61	1505.07	6754.41	1506.58	6754.39	1508.76	6754.71	1509.7	6754.73
1513.79	6754.87	1517.5	6754.56	1518.98	6754.52	1523.82	6754.62	1526.24	6754.34
1527.83	6754.27	1528.84	6754.65	1532.9	6754.67	1538.25	6754.77	1540.32	6754.84
1543.71	6755.02	1548.67	6755.35	1549.91	6755.38	1553.92	6755.52	1554.63	6755.52
1558.94	6755.45	1560.09	6755.36	1563.95	6755.29	1565.55	6755.19	1569.09	6754.91
1571.01	6754.83	1573.98	6754.61	1576.48	6754.65	1579	6754.59	1581.87	6754.69

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6762.45	Weir Sta US (ft)	0.00
W.S. US. (ft)	6762.35	Weir Sta DS (ft)	1581.87
E.G. DS (ft)	6759.73	Min El Weir Flow (ft)	6754.27
W.S. DS (ft)	6758.98	Wr Top Wdth (ft)	1565.07
Q US (cfs)	1001.26	Weir Max Depth (ft)	5.18
Q Leaving Total (cfs)	275.61	Weir Avg Depth (ft)	1.64
Q DS (cfs)	720.55	Weir Flow Area (sq ft)	2565.93
Perc Q Leaving	28.04	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	275.61	Weir Submerg	0.29
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			
Breach SSR (ft)			

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split RS: 998.3

INPUT

Description:

Station	Elevation	Data	num=	353					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6764.02	.05	6764.02	.48	6764.01	.61	6764.01	1.05	6764
1.47	6764	1.62	6763.99	2.05	6763.99	2.47	6763.98	2.62	6763.98
3.05	6763.97	3.47	6763.96	3.63	6763.96	4.05	6763.95	4.46	6763.93
4.63	6763.92	5.05	6763.91	5.46	6763.89	5.63	6763.88	6.05	6763.86
6.45	6763.84	6.64	6763.84	7.05	6763.82	7.45	6763.8	7.64	6763.79

8.05	6763.77	8.44	6763.75	8.65	6763.75	9.05	6763.73	9.44	6763.71
9.65	6763.71	10.05	6763.7	10.43	6763.69	10.66	6763.68	11.05	6763.67
11.43	6763.66	11.66	6763.66	12.05	6763.65	12.43	6763.64	12.67	6763.63
13.05	6763.62	13.42	6763.61	13.67	6763.61	14.05	6763.6	14.42	6763.59
14.67	6763.59	15.05	6763.58	15.41	6763.57	15.68	6763.57	16.05	6763.56
16.41	6763.56	16.68	6763.55	17.05	6763.55	17.4	6763.54	17.69	6763.54
18.05	6763.53	18.4	6763.52	18.69	6763.52	19.05	6763.51	19.4	6763.52
19.7	6763.5	20.05	6763.51	23.71	6763.51	24.05	6763.5	24.37	6763.49
24.72	6763.49	25.05	6763.47	25.37	6763.46	25.72	6763.45	25.91	6763.44
26.05	6763.44	26.37	6763.43	26.73	6763.42	27.05	6763.41	27.36	6763.4
27.73	6763.39	28.05	6763.38	28.36	6763.38	28.74	6763.36	29.05	6763.35
29.35	6763.17	29.74	6762.86	30.05	6762.67	30.35	6762.45	30.74	6762.17
30.89	6762.06	35.77	6761.52	36.05	6761.29	36.32	6760.66	36.77	6758.31
37.05	6757.67	37.32	6757.66	37.77	6757.62	38.05	6757.61	38.31	6757.59
38.78	6757.56	39.05	6757.54	39.31	6757.5	39.78	6757.38	40.05	6757.34
40.31	6757.29	40.79	6757.19	41.05	6757.13	41.3	6757.08	41.79	6756.98
42.05	6756.92	42.3	6756.87	42.8	6756.77	43.05	6756.71	43.29	6756.66
43.8	6756.56	44.05	6756.5	44.29	6756.41	44.81	6756.23	45.05	6756.14
45.28	6756.09	45.81	6755.95	46.05	6755.91	46.28	6755.95	46.81	6756.05
47.05	6756.1	47.28	6756.14	47.82	6756.25	48.05	6756.29	48.27	6756.32
48.82	6756.44	49.05	6756.47	49.27	6756.54	49.83	6756.71	50.05	6756.78
50.26	6756.85	50.83	6757.02	51.05	6757.09	51.26	6757.15	51.84	6757.33
52.05	6757.39	52.25	6757.45	52.84	6757.63	53.05	6757.7	53.25	6757.76
53.84	6757.94	54.05	6758.01	54.25	6758.03	54.85	6758.19	55.05	6758.21
55.24	6758.25	55.85	6758.39	56.05	6758.44	56.24	6758.48	56.86	6758.62
57.05	6758.66	57.23	6758.7	57.86	6758.85	58.05	6758.89	58.23	6758.93
58.87	6759.07	59.05	6759.11	59.22	6759.12	59.87	6759.11	64.2	6759.11
64.89	6759.13	65.2	6759.13	65.9	6759.15	66.05	6759.16	66.19	6759.16
66.9	6759.18	67.05	6759.18	67.19	6759.19	67.91	6759.21	68.18	6759.21
68.91	6759.23	69.05	6759.24	69.18	6759.24	69.91	6759.18	70.05	6759.18
70.18	6759.17	70.92	6759.13	71.05	6759.12	71.17	6759.11	71.92	6759.06
72.05	6759.06	72.17	6759.05	72.93	6759	73.05	6758.99	73.16	6758.98
73.93	6758.93	74.05	6758.93	74.16	6758.9	74.94	6758.71	75.05	6758.68
75.15	6758.67	75.94	6758.52	76.05	6758.51	76.15	6758.51	76.94	6758.55
77.05	6758.56	77.15	6758.55	77.95	6758.51	78.05	6758.5	78.14	6758.46
78.95	6758.63	79.05	6758.6	79.14	6758.62	79.42	6758.69	79.96	6758.82
80.05	6758.83	80.13	6758.84	80.96	6758.94	81.05	6758.95	81.13	6758.95
81.97	6758.93	82.05	6758.93	82.12	6758.95	82.97	6758.91	83.05	6758.92
83.12	6758.94	83.98	6758.9	84.05	6758.91	84.12	6758.9	84.98	6758.69
85.05	6758.68	85.11	6758.67	85.98	6758.46	86.05	6758.45	86.11	6758.43
86.99	6758.23	87.05	6758.21	87.1	6758.2	87.99	6757.99	88.05	6757.98
88.1	6757.97	89	6757.76	89.05	6757.75	89.09	6757.72	90	6757.6
90.05	6757.58	90.09	6757.57	91.01	6757.43	91.05	6757.43	91.09	6757.42
91.92	6757.3	92.01	6757.28	92.05	6757.28	92.08	6757.27	93.01	6757.13
93.08	6757.13	94.02	6756.98	94.07	6756.98	95.02	6757.15	95.07	6757.15
96.03	6757.32	96.06	6757.32	97.03	6757.49	97.05	6757.49	97.06	6757.5
98.04	6757.66	98.05	6757.67	98.06	6757.67	99.04	6757.84	99.05	6757.84
100.05	6757.92	100.25	6757.94	101.04	6758	101.05	6758	102.04	6758.08
102.05	6758.08	103.03	6758.16	103.06	6758.16	104.03	6758.24	104.06	6758.24
104.42	6758.17	105.03	6758.06	105.05	6758.05	105.07	6758.05	106.02	6757.88
106.05	6757.87	106.07	6757.87	107.02	6757.69	107.05	6757.69	107.08	6757.68
108.01	6757.51	108.05	6757.5	108.08	6757.5	109.01	6757.33	109.05	6757.32
109.08	6757.32	110	6757.28	110.05	6757.27	110.09	6757.27	111	6757.23
111.09	6757.23	112	6757.19	112.05	6757.18	112.1	6757.18	112.99	6757.14
113.05	6757.14	113.1	6757.13	113.99	6757.1	114.05	6757.09	114.11	6757.1
114.98	6757.22	115.05	6757.23	115.11	6757.24	115.98	6757.37	116.05	6757.37
116.12	6757.38	116.97	6757.51	117.05	6757.52	117.12	6757.53	117.97	6757.65
118.05	6757.66	118.12	6757.67	118.97	6757.79	119.05	6757.8	119.13	6757.83
119.96	6758.01	120.05	6758.05	120.13	6758.07	120.5	6758.15	120.96	6758.26
121.05	6758.28	121.14	6758.3	121.95	6758.49	122.05	6758.51	122.14	6758.53
122.95	6758.72	123.05	6758.74	123.15	6758.76	123.94	6758.95	124.05	6758.97
124.15	6758.98	124.94	6759.11	125.16	6759.13	125.93	6759.26	126.05	6759.27
126.16	6759.29	126.93	6759.41	127.05	6759.43	127.17	6759.45	127.92	6759.57
128.05	6759.59	128.17	6759.61	128.91	6759.72	129.05	6759.74	129.18	6759.76
129.91	6759.84	130.05	6759.86	130.18	6759.87	130.9	6759.95	131.05	6759.97
131.19	6760	150.06	6761	168.41	6761.01				

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	25.91	.025	35.77	.04

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	35.77	131.19		145.25 145.76	145.25		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 998.2

INPUT

Description:

Station	Elevation	Data	num=	392					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.62	.88	6763.62	1.72	6763.6	1.8	6763.59	1.88	6763.59
2.71	6763.57	2.89	6763.57	3.71	6763.54	3.9	6763.54	4.7	6763.52
4.8	6763.52	4.9	6763.51	5.7	6763.49	5.8	6763.48	5.91	6763.48
6.69	6763.45	6.91	6763.45	7.68	6763.42	7.8	6763.41	7.92	6763.41
8.68	6763.38	8.8	6763.38	8.92	6763.37	9.67	6763.34	9.93	6763.34
10.67	6763.35	10.94	6763.35	11.66	6763.36	11.94	6763.36	12.66	6763.37
12.8	6763.38	12.95	6763.38	13.65	6763.39	13.95	6763.39	14.65	6763.4
14.8	6763.4	14.96	6763.39	15.64	6763.37	15.8	6763.36	15.96	6763.36
16.63	6763.33	16.8	6763.33	16.97	6763.32	17.63	6763.3	17.8	6763.3
17.98	6763.29	18.62	6763.27	18.8	6763.27	18.98	6763.26	19.62	6763.25
19.8	6763.24	19.99	6763.23	20.61	6763.22	20.8	6763.21	20.99	6763.21
21.61	6763.19	21.8	6763.18	22	6763.18	22.6	6763.17	22.8	6763.16
23	6763.16	23.6	6763.14	23.8	6763.14	24.01	6763.13	24.59	6763.12
24.8	6763.12	25.01	6763.11	25.58	6763.09	25.8	6763.08	26.02	6763.08
26.58	6763.06	26.8	6763.05	27.03	6763.05	27.57	6763.03	27.8	6763.02
28.03	6763.02	28.57	6763	28.8	6763	29.03	6762.99	29.04	6762.99
29.56	6762.97	29.8	6762.97	30.04	6762.96	30.56	6762.95	30.8	6762.95
31.05	6762.94	31.55	6762.93	31.8	6762.93	32.55	6762.9	32.8	6762.9
33.06	6762.89	33.54	6762.87	33.61	6762.87	33.8	6762.86	34.07	6762.85
34.53	6762.84	34.8	6762.83	35.07	6762.56	35.53	6762.1	35.8	6761.83
36.08	6761.56	36.52	6761.11	36.8	6760.84	37.08	6760.56	37.52	6760.13
37.8	6759.85	38.09	6759.57	38.51	6759.15	38.8	6758.86	39.09	6758.57
39.51	6758.17	39.8	6757.88	40.1	6757.83	40.5	6757.77	40.8	6757.72
41.11	6757.67	41.5	6757.61	41.8	6757.56	42.11	6757.51	42.49	6757.4
42.8	6757.35	43.12	6757.28	43.48	6757.2	43.8	6757.12	44.12	6757.05
44.48	6756.97	44.8	6756.89	45.13	6756.85	45.47	6756.8	45.8	6756.76
46.13	6756.62	46.47	6756.67	46.8	6756.63	47.14	6756.58	47.46	6756.57
47.8	6756.53	48.15	6756.5	48.46	6756.48	48.8	6756.45	49.15	6756.42
49.45	6756.4	49.8	6756.37	50.16	6756.3	50.44	6756.25	50.8	6756.18
51.16	6756.12	51.44	6756.14	51.8	6756.07	52.17	6756.06	52.43	6756.1
52.8	6756.09	53.17	6756.11	53.43	6756.12	53.8	6756.14	54.18	6756.34
54.42	6756.37	54.8	6756.57	55.19	6756.75	55.42	6756.85	55.8	6757.02
56.19	6757.2	56.41	6757.3	56.8	6757.47	57.2	6757.65	57.41	6757.76
57.8	6757.94	58.2	6758.12	58.4	6758.22	58.8	6758.41	59.21	6758.6
59.39	6758.68	59.8	6758.87	60.8	6758.87	61.22	6758.86	62.23	6758.86
62.38	6758.84	62.8	6758.84	63.23	6758.82	63.37	6758.82	63.8	6758.8
64.24	6758.79	64.37	6758.79	64.8	6758.77	65.24	6758.76	65.36	6758.75
65.8	6758.73	66.25	6758.72	66.36	6758.71	66.8	6758.7	67.25	6758.68
67.35	6758.67	67.8	6758.65	68.26	6758.63	68.34	6758.62	68.8	6758.6
69.26	6758.57	69.34	6758.57	69.8	6758.55	70.27	6758.54	72.28	6758.54
72.32	6758.55	72.8	6758.55	73.29	6758.56	73.32	6758.56	73.8	6758.57
74.29	6758.58	74.31	6758.58	74.8	6758.59	75.3	6758.58	75.31	6758.58
75.8	6758.57	76.3	6758.56	76.8	6758.56	77.29	6758.5	77.31	6758.55
77.8	6758.49	78.29	6758.44	78.32	6758.43	78.8	6758.38	79.28	6758.32
79.32	6758.31	79.8	6758.26	80.18	6758.19	80.28	6758.17	80.33	6758.17
80.8	6758.08	81.27	6758	81.33	6757.99	81.8	6757.9	82.27	6757.8
82.34	6757.81	82.8	6757.7	83.26	6757.59	83.34	6757.58	83.8	6757.47
84.26	6757.36	84.35	6757.34	84.8	6757.24	85.25	6757.09	85.36	6757.05
85.8	6756.91	86.24	6756.76	86.36	6756.73	86.8	6756.58	87.24	6756.44
87.37	6756.4	87.8	6756.26	88.23	6756.12	88.37	6756.1	88.8	6755.96
89.23	6755.79	89.38	6755.79	89.8	6755.63	90.22	6755.49	90.38	6755.25
90.8	6755.11	91.22	6755.01	91.39	6754.97	91.8	6754.87	92.21	6754.78
92.4	6754.76	92.68	6754.69	92.8	6754.67	93.2	6754.57	93.4	6754.62
93.8	6754.53	94.2	6754.47	94.41	6754.48	94.8	6754.43	95.19	6754.48
95.41	6754.38	95.8	6754.43	96.19	6754.49	96.42	6754.46	96.8	6754.52
97.18	6754.58	97.21	6754.59	97.42	6754.62	97.8	6754.69	98.18	6754.75
98.43	6754.79	98.8	6754.85	99.17	6755	99.44	6755.19	99.8	6755.34
99.85	6755.34	100.19	6755.39	100.41	6755.41	100.8	6755.46	101.25	6755.52

101.35	6755.53	101.81	6755.59	102.3	6755.65	102.32	6755.69	102.81	6755.76
103.24	6755.85	103.39	6755.88	103.81	6755.97	104.19	6756.05	104.45	6756.11
104.81	6756.19	105.13	6756.16	105.18	6756.16	105.52	6756.14	105.81	6756.12
106.08	6756.1	106.58	6756.06	106.82	6756.05	107.02	6756.09	107.65	6756
107.82	6756.03	107.97	6756.08	108.71	6756.52	108.82	6756.56	108.91	6756.61
109.78	6757.14	109.82	6757.17	109.86	6757.18	110.14	6757.22	110.78	6757.33
110.82	6757.33	110.86	6757.34	111.76	6757.48	111.82	6757.49	111.89	6757.5
112.73	6757.67	112.82	6757.69	112.92	6757.71	113.71	6757.86	113.82	6757.89
113.94	6757.91	114.68	6758.06	114.82	6758.08	114.97	6758.11	114.98	6758.11
115.67	6758.24	115.82	6758.27	115.98	6758.3	116.66	6758.43	116.82	6758.46
116.98	6758.49	117.66	6758.6	117.82	6758.63	117.99	6758.66	118.65	6758.77
118.82	6758.8	119	6758.83	119.65	6758.94	119.82	6758.97	120	6758.99
120.64	6759.06	120.82	6759.08	121.01	6759.1	121.63	6759.17	121.82	6759.19
122.01	6759.21	122.63	6759.28	122.82	6759.3	123.02	6759.32	123.62	6759.37
123.82	6759.39	124.03	6759.41	124.62	6759.46	124.82	6759.48	125.03	6759.49
125.61	6759.52	125.82	6759.53	126.04	6759.54	126.6	6759.57	126.82	6759.58
127.05	6759.59	127.6	6759.63	127.82	6759.64	128.05	6759.65	128.59	6759.69
128.82	6759.7	129.06	6759.72	129.59	6759.75	129.82	6759.76	130.06	6759.78
130.58	6759.82	130.82	6759.84	131.07	6759.86	131.57	6759.89	131.82	6759.91
132.08	6759.93	132.57	6759.95	132.82	6759.97	133.08	6759.98	133.56	6760
154.56	6761	174.15	6761.11						

Manning's n Values num= 2

Sta	n Val	Sta	n Val
0	.016	34.8	.04

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	37.52	133.56		164.57	165.08	164.57		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 998

INPUT

Description:

Station	Elevation	Data	num=	414	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.15	.6	6763.15	.6	6763.1	.94	6763.1	1.19	6763.11			
1.7	6763.12	2.94	6763.12	3.19	6763.11	3.7	6763.09	3.94	6763.09			
4.19	6763.07	4.7	6763.04	4.94	6763.03	5.19	6763.01	5.7	6763			
5.94	6762.99	6.7	6762.99	6.94	6763	7.19	6763	7.7	6763.01			
8.19	6763.01	8.7	6763.02	9.18	6763.02	9.7	6763.03	11.18	6763.03			
11.7	6763.01	11.94	6763	12.18	6762.99	12.7	6762.98	12.94	6762.97			
13.18	6762.96	13.7	6762.95	13.94	6762.94	14.18	6762.93	14.7	6762.91			
14.94	6762.91	15.18	6762.9	15.7	6762.89	15.94	6762.88	16.18	6762.88			
16.7	6762.87	17.94	6762.87	18.18	6762.86	19.94	6762.86	20.18	6762.85			
20.94	6762.85	21.18	6762.84	21.7	6762.83	21.94	6762.83	22.18	6762.82			
22.7	6762.81	22.94	6762.8	23.18	6762.8	23.7	6762.78	23.94	6762.78			
24.18	6762.77	24.7	6762.76	24.94	6762.75	25.18	6762.75	25.7	6762.73			
26.18	6762.73	26.7	6762.72	27.18	6762.72	27.7	6762.71	28.7	6762.71			
28.94	6762.7	29.94	6762.7	30.18	6762.69	30.7	6762.68	30.94	6762.68			
31.18	6762.67	31.7	6762.65	31.94	6762.65	32.18	6762.64	32.7	6762.62			
32.94	6762.61	33.18	6762.6	33.7	6762.58	33.94	6762.58	34.18	6762.57			
34.7	6762.55	34.94	6762.54	35.18	6762.53	35.71	6762.52	35.94	6762.51			
36.18	6762.39	36.71	6762.14	36.94	6762.03	37.18	6761.92	37.71	6761.67			
37.94	6761.55	38.18	6761.44	38.71	6761.19	38.94	6761.08	39.18	6760.96			
39.71	6760.72	39.94	6760.6	40.18	6760.49	40.71	6760.28	40.94	6760.17			
41.18	6760.01	41.71	6759.67	41.94	6759.51	42.18	6759.36	42.71	6759.02			
42.94	6758.86	43.18	6758.71	43.71	6758.36	43.94	6758.21	44.18	6758.05			
44.71	6757.71	44.94	6757.55	45.18	6757.4	45.71	6757.01	45.94	6756.86			
46.18	6756.81	46.71	6756.69	46.94	6756.64	47.18	6756.59	47.71	6756.48			
47.94	6756.43	48.18	6756.37	48.71	6756.26	48.94	6756.21	49.18	6756.16			
49.71	6756.04	49.94	6755.99	50.18	6755.94	50.71	6755.8	50.94	6755.75			
51.18	6755.73	51.71	6755.54	51.94	6755.52	52.18	6755.5	52.71	6755.31			
52.94	6755.29	53.18	6755.27	53.71	6755.2	53.94	6755.18	54.18	6755.16			
54.71	6755.11	54.94	6755.09	55.18	6755.07	55.71	6755.37	55.94	6755.34			
56.18	6755.45	56.71	6755.59	56.94	6755.7	57.18	6755.81	57.71	6756.05			
57.94	6756.16	58.18	6756.26	58.71	6756.51	58.94	6756.61	59.18	6756.72			
59.71	6756.97	59.94	6757.07	60.18	6757.18	60.71	6757.53	60.94	6757.64			

61.18	6757.68	61.71	6757.77	61.94	6757.81	62.18	6757.85	62.71	6757.93
62.94	6757.97	63.18	6758.01	63.71	6758.1	63.94	6758.14	64.18	6758.18
64.71	6758.26	64.94	6758.3	65.18	6758.34	65.71	6758.39	65.94	6758.43
66.18	6758.43	66.71	6758.26	67.71	6758.26	67.94	6758.25	68.94	6758.25
69.18	6758.24	70.18	6758.24	70.71	6758.38	71.18	6758.38	71.71	6758.39
71.94	6758.39	72.18	6758.4	72.71	6758.41	72.94	6758.41	73.18	6758.42
73.71	6758.42	73.94	6758.43	74.18	6758.43	74.71	6758.44	74.94	6758.45
75.18	6758.45	75.71	6758.46	75.94	6758.47	77.18	6758.47	77.71	6758.48
78.18	6758.48	78.71	6758.49	79.94	6758.49	80.18	6758.5	80.71	6758.53
80.94	6758.53	81.18	6758.51	81.71	6758.44	81.94	6758.42	82.18	6758.39
82.71	6758.33	82.94	6758.3	83.18	6758.27	83.71	6758.21	83.94	6758.19
84.18	6758.16	84.71	6758.1	84.94	6758.07	85.18	6758.04	85.37	6758.01
85.71	6757.95	85.94	6757.92	86.18	6757.82	86.71	6757.61	86.94	6757.52
87.18	6757.42	87.71	6757.21	87.94	6757.11	88.17	6757.02	88.71	6756.8
88.94	6756.41	89.17	6756.62	89.71	6756.4	89.94	6756.31	90.17	6756.21
90.71	6756.03	90.94	6755.93	91.17	6755.88	91.71	6755.77	91.94	6755.72
92.17	6755.67	92.71	6755.56	92.94	6755.51	93.17	6755.46	93.71	6755.34
93.94	6755.29	94.17	6755.24	94.71	6755.13	94.94	6755.08	95.17	6755.03
95.71	6754.91	95.94	6754.86	96.17	6754.86	96.71	6754.87	97.87	6754.87
98.17	6754.87	98.71	6754.88	99.94	6754.88	100.17	6754.89	100.71	6754.87
100.94	6754.87	101.17	6754.89	101.71	6754.93	101.94	6754.94	102.17	6754.96
102.71	6755	102.94	6755.02	103.17	6755.03	103.71	6755.07	103.94	6755.09
104.17	6755.1	104.71	6755.14	104.94	6755.16	105.17	6755.18	105.71	6755.22
105.94	6755.24	106.17	6755.29	106.71	6755.41	106.94	6755.46	107.17	6755.51
107.71	6755.63	107.94	6755.68	108.17	6755.73	108.71	6755.85	108.94	6755.9
109.17	6755.95	109.71	6756.07	109.94	6756.12	110.17	6756.17	110.37	6756.23
110.71	6756.32	110.94	6756.37	111.17	6756.47	111.71	6756.69	111.94	6756.79
112.17	6756.88	112.71	6757.11	112.94	6757.21	113.17	6757.3	113.71	6757.53
113.94	6757.63	114.17	6757.72	114.72	6757.95	114.94	6758.05	115.17	6758.14
115.44	6758.23	115.72	6758.32	115.94	6758.41	116.17	6758.45	116.72	6758.55
116.94	6758.6	117.17	6758.64	117.72	6758.74	117.94	6758.78	118.17	6758.82
118.72	6758.92	118.94	6758.97	119.17	6759.01	119.72	6759.11	119.94	6759.15
120.17	6759.19	120.72	6759.3	120.94	6759.35	121.17	6759.36	121.72	6759.43
121.94	6759.44	122.17	6759.46	122.72	6759.49	122.94	6759.5	123.17	6759.52
123.72	6759.55	123.94	6759.57	124.17	6759.58	124.72	6759.61	124.94	6759.63
125.17	6759.64	125.72	6759.68	125.94	6759.69	126.17	6759.69	126.72	6759.7
128.17	6759.7	128.72	6759.71	129.72	6759.71	129.94	6759.72	130.94	6759.72
131.17	6759.73	131.72	6759.75	131.94	6759.76	132.17	6759.77	132.72	6759.79
132.94	6759.8	133.17	6759.81	133.72	6759.83	133.94	6759.84	134.17	6759.85
134.72	6759.87	134.94	6759.88	135.17	6759.88	135.72	6759.91	135.94	6759.92
136.17	6759.93	136.72	6759.96	136.94	6759.97	137.17	6759.98	137.72	6760.01
137.94	6760.02	138.17	6760.03	138.72	6760.06	138.94	6760.07	139.17	6760.09
139.72	6760.11	139.94	6760.13	140.17	6760.14	140.72	6760.16	140.94	6760.17
141.17	6760.17	141.72	6760.16	141.94	6760.16	142.17	6760.15	142.72	6760.15
142.94	6760.14	143.17	6760.14	143.72	6760.13	144.17	6760.13	144.72	6760.12
144.94	6760.12	145.17	6760.11	145.72	6760.1	145.94	6760.1	146.17	6760.09
146.72	6760.08	146.94	6760.07	147.17	6760.07	147.72	6760.05	147.94	6760.04
148.17	6760.04	148.72	6760.02	148.94	6760.02	149.17	6760.01	149.72	6759.99
149.94	6759.99	150.17	6759.98	150.72	6759.98	150.94	6759.97	151.17	6759.98
151.72	6759.99	151.94	6760	152.17	6760.01	152.72	6760.03	152.94	6760.03
153.17	6760.04	153.72	6760.06	153.94	6760.06	185.75	6760.22		

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
0	.016	44.18	.04
		115.44	.038

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	44.18	115.44		117.79	106.55	117.79	.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 997.8

INPUT

Description:

Station Elevation Data		num= 460	
Sta	Elev	Sta	Elev
0	6762.71	.08	6762.71
		.68	6762.69
1.67	6762.66	1.89	6762.66
		2.1	6762.65
		2.67	6762.63
		2.89	6762.63

3.11	6762.62	3.66	6762.6	3.89	6762.6	4.12	6762.59	4.65	6762.57
4.89	6762.57	5.13	6762.56	5.64	6762.55	5.89	6762.55	6.13	6762.54
6.63	6762.53	6.89	6762.53	7.14	6762.52	7.62	6762.51	7.89	6762.5
8.15	6762.5	8.62	6762.49	8.89	6762.48	9.61	6762.48	9.89	6762.47
10.17	6762.47	10.6	6762.44	10.89	6762.44	11.18	6762.43	11.59	6762.42
11.89	6762.41	12.19	6762.4	12.58	6762.4	12.89	6762.39	13.19	6762.38
13.57	6762.37	13.89	6762.36	14.2	6762.35	14.57	6762.35	14.89	6762.34
15.56	6762.34	15.89	6762.35	16.22	6762.35	16.55	6762.36	17.23	6762.36
17.54	6762.37	17.89	6762.37	18.24	6762.38	18.53	6762.38	18.89	6762.39
19.52	6762.39	19.89	6762.4	20.25	6762.38	20.52	6762.37	20.89	6762.35
21.26	6762.33	21.51	6762.32	21.89	6762.3	22.27	6762.27	22.5	6762.26
22.89	6762.24	23.28	6762.22	23.49	6762.21	23.89	6762.19	24.29	6762.17
24.48	6762.15	24.89	6762.13	25.3	6762.13	25.47	6762.07	25.89	6762.07
26.31	6762.06	27.46	6762.06	27.89	6762.05	28.89	6762.05	29.33	6762.04
29.44	6762.08	29.89	6762.07	30.34	6761.63	30.43	6761.84	30.55	6761.72
30.89	6761.39	31.35	6760.94	31.42	6760.87	32.36	6759.95	32.41	6759.9
32.89	6759.44	33.37	6758.97	33.41	6758.93	33.89	6758.46	34.37	6757.98
34.4	6757.7	34.89	6757.22	35.38	6757.08	35.39	6756.94	35.89	6756.8
36.38	6756.52	36.39	6756.65	36.89	6756.37	37.37	6756.19	37.4	6756.23
37.89	6756.05	38.36	6755.93	38.41	6755.9	38.89	6755.78	39.36	6755.7
39.42	6755.63	39.89	6755.55	40.35	6755.46	40.43	6755.45	40.89	6755.36
41.34	6755.27	41.44	6755.25	41.89	6755.17	42.33	6755.09	42.44	6755.06
42.89	6754.98	43.05	6754.95	43.32	6754.91	43.45	6754.87	43.89	6754.8
44.31	6754.73	44.46	6754.69	44.89	6754.62	45.31	6754.57	45.47	6754.57
45.89	6754.52	46.3	6754.49	46.48	6754.48	46.89	6754.44	47.29	6754.86
47.49	6754.39	47.89	6754.81	48.28	6755.19	48.5	6755.37	48.89	6755.75
49.27	6756.06	49.5	6756.69	49.89	6757	50.26	6757.06	50.51	6757.05
50.89	6757.1	51.26	6757.13	51.52	6757.15	51.89	6757.18	52.25	6757.2
52.53	6757.23	52.89	6757.25	53.24	6757.28	53.54	6757.3	53.89	6757.33
54.23	6757.35	54.55	6757.38	54.89	6757.4	55.22	6757.38	55.55	6757.4
55.56	6757.4	55.89	6757.37	56.89	6757.37	57.25	6757.36	58.5	6757.36
58.89	6757.35	59.89	6757.35	60.3	6757.33	60.47	6757.34	60.89	6757.33
61.32	6757.32	61.89	6757.32	62.34	6757.31	62.89	6757.31	63.35	6757.3
63.89	6757.3	64.37	6757.29	64.89	6757.29	65.39	6757.28	65.39	6757.22
65.89	6757.21	66.37	6757.21	66.41	6757.14	66.89	6757.14	67.35	6757.13
67.43	6757.1	67.89	6757.1	68.34	6757.09	68.44	6757.09	68.89	6757.08
69.46	6757.08	69.89	6757.07	70.3	6757.02	70.48	6757	70.89	6756.96
71.29	6756.91	71.5	6756.89	71.89	6756.84	72.27	6756.79	72.51	6756.79
72.89	6756.75	73.25	6756.71	73.53	6756.76	73.89	6756.72	74.24	6756.68
74.55	6756.73	74.89	6756.69	75.22	6756.67	75.57	6756.65	75.89	6756.63
76.2	6756.61	76.58	6756.59	76.89	6756.57	77.19	6756.55	77.6	6756.53
77.89	6756.51	78.17	6756.49	78.62	6756.47	78.89	6756.45	79.15	6756.43
79.64	6756.46	79.89	6756.44	80.14	6756.38	80.66	6756.32	80.89	6756.26
81.12	6756.2	81.67	6756.05	81.89	6755.99	82.1	6755.94	82.69	6755.78
82.89	6755.73	83.08	6755.68	83.71	6755.52	83.89	6755.47	84.07	6755.42
84.73	6755.25	84.89	6755.2	85.05	6755.11	85.74	6754.51	85.89	6754.42
86.03	6754.37	86.76	6754.32	86.89	6754.27	87.02	6754.3	87.78	6754.45
87.89	6754.47	88	6754.49	88.8	6754.65	88.89	6754.67	88.98	6754.69
89.82	6754.86	89.89	6754.87	89.97	6754.87	90.83	6754.82	90.89	6754.81
90.95	6754.81	91.85	6754.74	91.93	6754.74	92.87	6754.67	92.92	6754.67
93.89	6754.59	94.29	6754.56	94.88	6754.52	94.9	6754.52	95.87	6754.25
95.89	6754.24	95.92	6754.23	96.85	6754.05	96.89	6754.04	96.94	6754.04
97.83	6753.98	97.96	6753.98	98.82	6754.04	98.89	6754.05	98.97	6754.06
99.8	6754.33	99.89	6754.34	99.99	6754.35	100.78	6754.28	100.89	6754.3
101.01	6754.33	101.77	6754.56	101.89	6754.6	102.03	6754.64	102.75	6754.86
102.89	6754.9	103.05	6754.95	103.73	6755.16	103.89	6755.21	104.06	6755.26
104.71	6755.46	104.89	6755.52	105.08	6755.54	105.7	6755.6	105.89	6755.63
106.1	6755.65	106.68	6755.77	106.89	6755.79	107.12	6755.83	107.66	6755.93
107.9	6755.98	108.13	6756.02	108.65	6756.11	108.9	6756.16	109.15	6756.2
109.63	6756.29	109.9	6756.34	110.17	6756.39	110.61	6756.48	110.9	6756.53
111.19	6756.59	111.6	6756.67	111.9	6756.73	112.2	6756.78	112.58	6756.86
112.9	6756.92	113.22	6757	113.56	6757.05	113.9	6757.13	114.24	6757.21
114.55	6757.28	114.9	6757.37	115.26	6757.46	115.53	6757.53	115.9	6757.62
116.28	6757.72	116.51	6757.8	116.9	6757.9	117.29	6758.01	117.5	6758.07
117.9	6758.18	118.31	6758.3	118.48	6758.35	118.9	6758.47	119.33	6758.59
119.46	6758.63	119.9	6758.75	120.35	6758.8	120.45	6758.81	120.9	6758.86
121.36	6758.9	121.43	6758.93	121.9	6758.98	122.38	6759.05	122.41	6759.06
122.9	6759.13	123.4	6759.2	123.9	6759.27	124.38	6759.34	124.42	6759.35
124.9	6759.42	125.36	6759.47	125.44	6759.47	125.9	6759.52	126.34	6759.58
126.45	6759.58	126.9	6759.63	127.33	6759.69	127.47	6759.7	127.9	6759.76
128.31	6759.81	128.49	6759.83	128.9	6759.88	129.29	6759.93	129.51	6759.96

129.9	6760.01	130.28	6760.06	130.52	6760.09	130.9	6760.14	131.26	6760.17
131.54	6760.23	131.9	6760.26	132.24	6760.29	132.56	6760.31	132.9	6760.34
133.23	6760.37	133.58	6760.4	133.9	6760.42	134.21	6760.45	134.59	6760.48
134.9	6760.51	135.19	6760.52	135.61	6760.55	135.9	6760.56	136.18	6760.57
136.63	6760.6	136.9	6760.61	137.16	6760.62	137.65	6760.64	137.9	6760.65
138.14	6760.66	138.67	6760.68	138.9	6760.68	139.13	6760.69	139.68	6760.71
139.9	6760.72	140.11	6760.74	140.7	6760.8	140.9	6760.82	141.09	6760.83
141.72	6760.9	142.08	6760.92	142.74	6760.97	142.9	6760.98	143.06	6760.99
143.75	6761.04	143.9	6761.05	144.04	6761.06	144.77	6761.11	144.9	6761.11
145.03	6761.12	145.79	6761.15	145.9	6761.15	146.01	6761.16	146.81	6761.19
146.9	6761.2	146.99	6761.21	147.82	6761.28	147.9	6761.28	147.97	6761.29
148.84	6761.36	148.9	6761.37	148.96	6761.37	149.86	6761.45	149.94	6761.45
150.88	6761.46	150.92	6761.46	151.9	6761.47	152.24	6761.48	154.95	6761.48
155.84	6761.5	155.9	6761.5	155.97	6761.51	156.82	6761.52	156.9	6761.53
156.98	6761.53	157.81	6761.56	158	6761.56	158.79	6761.59	158.9	6761.59
159.02	6761.6	159.77	6761.62	159.9	6761.62	160.04	6761.63	160.76	6761.65
160.9	6761.66	161.06	6761.66	161.74	6761.68	161.9	6761.69	162.07	6761.69
162.72	6761.7	162.9	6761.7	163.09	6761.71	163.71	6761.72	164.11	6761.72
164.69	6761.73	164.9	6761.74	167.16	6761.74	167.21	6761.74	167.59	6761.73

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.016	30.55	.04	139.68	.038

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
30.55	139.68	450.46	450.19	450.46		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 997

INPUT

Description:

Station Elevation Data		num=		415					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.85	.01	6761.85	.82	6761.82	.93	6761.82	1.04	6761.83
1.78	6761.93	1.93	6761.95	2.08	6761.94	2.75	6761.93	2.93	6761.92
3.12	6761.92	3.72	6761.9	3.93	6761.9	4.16	6761.89	4.68	6761.88
4.93	6761.88	5.19	6761.87	5.65	6761.86	5.93	6761.85	6.23	6761.85
6.61	6761.84	6.93	6761.83	7.27	6761.83	7.58	6761.82	8.31	6761.82
8.56	6761.81	9.35	6761.81	9.52	6761.8	10.49	6761.8	10.94	6761.79
11.94	6761.79	12.42	6761.77	12.46	6761.76	12.94	6761.74	13.39	6761.72
13.5	6761.72	13.94	6761.69	14.36	6761.67	14.54	6761.67	14.94	6761.65
15.32	6761.64	15.58	6761.63	15.95	6761.62	16.29	6761.61	16.61	6761.6
16.95	6761.59	17.26	6761.59	17.65	6761.58	18.69	6761.58	18.95	6761.57
19.19	6761.57	19.72	6761.55	19.95	6761.55	20.16	6761.54	20.76	6761.52
20.95	6761.52	21.12	6761.51	21.8	6761.49	21.95	6761.49	22.09	6761.48
22.84	6761.43	22.95	6761.42	23.06	6761.41	23.88	6761.35	23.96	6761.35
24.03	6761.34	24.92	6761.28	24.96	6761.28	25	6761.27	25.51	6761.23
25.53	6761.23	25.96	6761.2	26.06	6761.2	26.93	6761.13	27	6761.13
27.9	6761.06	27.96	6761.06	28.03	6761.05	28.86	6761	28.96	6760.99
29.07	6760.98	29.83	6760.93	29.96	6760.92	30.11	6760.91	30.8	6760.86
30.96	6760.85	31.14	6760.83	31.76	6760.79	31.97	6760.78	32.18	6760.77
32.73	6760.74	32.97	6760.73	33.22	6760.72	33.7	6760.7	33.97	6760.68
34.26	6760.67	34.53	6760.65	34.66	6760.64	34.97	6760.62	35.29	6760.6
35.63	6760.58	35.97	6760.56	36.33	6760.54	36.6	6760.52	36.97	6760.5
37.37	6760.44	37.56	6760.41	37.97	6760.36	38.4	6760.3	38.53	6760.28
38.97	6760.22	39.45	6760.15	39.51	6760.15	39.95	6760.08	39.98	6760.08
40	6760.08	40.03	6760.08	40.47	6760.04	40.49	6760.01	40.98	6759.97
41.44	6759.94	41.53	6759.92	41.98	6759.89	42.41	6759.72	42.56	6759.63
42.98	6759.46	43.37	6759.26	43.6	6759.15	43.98	6758.95	44.34	6758.78
44.64	6758.62	44.98	6758.45	45.31	6758.4	45.68	6758.1	45.98	6758.05
46.27	6758	46.71	6757.92	46.98	6757.87	47.04	6757.82	47.24	6757.65
47.75	6757.2	47.99	6757	48.2	6756.81	48.79	6756.48	48.99	6756.31
49.17	6756.19	49.82	6755.78	49.99	6755.67	50.14	6755.58	50.86	6755.12
50.99	6755.04	51.1	6754.96	51.9	6754.46	51.99	6754.4	52.07	6754.36
52.94	6754.07	52.99	6754.04	53.04	6754.03	53.83	6754.01	53.97	6754.01
53.99	6754	54	6754	54.42	6753.99	54.98	6753.98	55.02	6753.98
55.95	6753.95	56.06	6753.95	56.23	6754.07	56.93	6754.55	57	6754.55

57.07	6754.6	57.93	6754.97	58	6755.02	58.07	6755.08	58.93	6755.7
59	6755.76	59.08	6755.81	59.55	6756.16	59.62	6756.21	59.92	6756.43
60	6756.49	60.09	6756.55	60.89	6757.14	61	6757.22	61.11	6757.3
61.87	6757.85	62	6757.94	62.14	6758	62.85	6758.23	63	6758.29
63.16	6758.36	63.83	6758.65	64	6758.73	64.18	6758.81	64.81	6759.08
65	6759.17	65.2	6759.26	65.79	6759.51	66	6759.61	66.23	6759.7
66.24	6759.7	66.76	6759.82	66.96	6759.91	67	6759.93	67.25	6759.95
67.74	6759.95	68	6759.97	68.27	6759.99	68.72	6760.03	69	6760.05
69.3	6760.07	69.7	6760.1	70	6760.12	70.32	6760.15	70.69	6760.17
71.01	6760.2	71.35	6760.22	71.67	6760.25	72.01	6760.27	73.01	6760.27
73.4	6760.26	77.01	6760.26	77.49	6760.39	77.54	6760.28	78.02	6760.41
78.51	6760.54	79.02	6760.68	79.49	6760.8	79.54	6760.82	80.02	6760.94
80.47	6761.07	80.56	6761.09	81.02	6761.21	81.45	6761.33	81.58	6761.36
82.02	6761.48	82.43	6761.5	82.61	6761.43	83.02	6761.46	83.41	6761.42
83.63	6761.41	84.02	6761.37	84.39	6761.34	84.65	6761.32	85.02	6761.29
85.36	6761.26	85.68	6761.24	86.02	6761.21	86.34	6761.18	86.71	6761.15
87.03	6761.13	87.33	6761.1	87.73	6761.04	88.03	6761.02	88.31	6760.98
88.76	6760.93	89.03	6760.89	89.29	6760.86	89.78	6760.8	90.03	6760.77
90.27	6760.74	90.8	6760.67	91.03	6760.64	91.24	6760.61	91.83	6760.54
92.03	6760.52	92.22	6760.51	92.85	6760.46	93.03	6760.46	93.2	6760.45
93.87	6760.4	94.03	6760.39	94.18	6760.38	94.9	6760.34	95.03	6760.33
95.16	6760.32	95.92	6760.27	96.03	6760.27	96.14	6760.26	96.94	6760.21
97.03	6760.2	97.11	6760.2	97.96	6760.19	98.03	6760.18	98.09	6760.18
98.99	6760.17	99.07	6760.17	100.01	6760.16	100.05	6760.16	100.89	6760.14
101.03	6760.14	102.01	6760.13	102.07	6760.13	102.99	6760.12	103.09	6760.12
103.97	6760.11	104.11	6760.11	104.95	6760.1	105.14	6760.1	105.93	6760.09
106.04	6760.09	106.16	6760.08	106.91	6760.08	107.04	6760.07	107.18	6760.07
107.89	6760	108.04	6760	108.21	6759.98	108.86	6759.93	109.04	6759.91
109.23	6759.9	109.84	6759.84	110.04	6759.82	110.25	6759.81	110.82	6759.76
111.04	6759.74	111.28	6759.72	111.8	6759.67	112.04	6759.65	112.3	6759.66
112.78	6759.67	113.04	6759.67	113.32	6759.68	113.76	6759.68	114.04	6759.69
114.34	6759.7	114.74	6759.7	115.04	6759.71	115.37	6759.72	115.71	6759.72
116.04	6759.73	116.39	6759.73	116.69	6759.74	117.41	6759.74	117.67	6759.73
118.06	6759.73	118.45	6759.72	119.06	6759.72	119.47	6759.71	119.64	6759.71
120.06	6759.7	120.62	6759.7	121.06	6759.69	121.52	6759.67	121.59	6759.68
122.06	6759.66	122.54	6759.65	122.57	6759.65	123.06	6759.64	123.55	6759.63
123.56	6759.63	124.06	6759.62	124.53	6759.61	124.59	6759.6	125.06	6759.59
125.51	6759.58	125.61	6759.58	126.06	6759.57	126.49	6759.56	126.63	6759.56
127.06	6759.55	127.46	6759.56	127.66	6759.56	128.06	6759.57	128.44	6759.58
128.68	6759.59	129.06	6759.6	129.42	6759.6	129.7	6759.61	130.06	6759.62
130.4	6759.63	130.72	6759.63	131.06	6759.64	131.38	6759.65	131.75	6759.67
132.06	6759.68	132.36	6759.68	132.77	6759.67	133.33	6759.67	133.8	6759.66
134.83	6759.66	135.07	6759.65	135.85	6759.65	136.07	6759.64	136.28	6759.64
136.87	6759.63	137.9	6759.63	138.07	6759.64	138.24	6759.64	138.92	6759.65
139.21	6759.65	139.94	6759.66	140.19	6759.66	140.97	6759.67	141.17	6759.67
141.99	6759.68	142.15	6759.68	143.01	6759.72	143.13	6759.72	144.03	6759.76
144.11	6759.76	145.06	6759.81	145.09	6759.81	145.68	6759.83	146.06	6759.85
146.08	6759.85	147.04	6759.9	147.07	6759.91	147.1	6759.91	148.02	6759.92
149.07	6759.92	149.16	6759.93	150.18	6759.93	150.97	6759.94	153.67	6759.94

Manning's n Values				num=	4				
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val		
0	.016	25.51	.025	40	.035	66.96	.016		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	39.95	66.96		76.24 76.23	76.24		.3	.5

CULVERT

RIVER: Walton Creek
 REACH: lower-split RS: 996.45

INPUT
 Description: Holiday Inn 72IN CMP
 Distance from Upstream XS = 10
 Deck/Roadway Width = 36
 Weir Coefficient = 2.6
 Upstream Deck/Roadway Coordinates
 num= 69

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.85	.01	6761.85	.82	6761.82	.93	6761.82	1.04	6761.83
1.78	6761.93	1.93	6761.95	2.08	6761.94	2.75	6761.93	2.93	6761.92
3.12	6761.92	3.72	6761.9	3.93	6761.9	4.16	6761.89	4.68	6761.88
4.93	6761.88	5.19	6761.87	5.65	6761.86	5.93	6761.85	6.23	6761.85
6.61	6761.84	6.93	6761.83	7.27	6761.83	7.58	6761.82	8.31	6761.82
8.56	6761.81	9.35	6761.81	9.52	6761.8	10.49	6761.8	10.94	6761.79
11.94	6761.79	12.42	6761.77	12.46	6761.76	12.94	6761.74	13.39	6761.72
13.5	6761.72	13.94	6761.69	14.36	6761.67	14.54	6761.67	14.94	6761.65
15.32	6761.64	15.58	6761.63	15.95	6761.62	16.29	6761.61	16.61	6761.6
16.95	6761.59	17.26	6761.59	17.65	6761.58	18.69	6761.58	18.95	6761.57
19.19	6761.57	19.72	6761.55	19.95	6761.55	20.16	6761.54	20.76	6761.52
20.95	6761.52	21.12	6761.51	21.8	6761.49	21.95	6761.49	22.09	6761.48
22.84	6761.43	22.95	6761.42	23.06	6761.41	23.88	6761.35	23.96	6761.35
24.03	6761.34	24.92	6761.28	24.96	6761.28	25	6761.27	25.51	6761.23
25.53	6761.23	25.96	6761.2	26.06	6761.2	26.93	6761.13	27	6761.13
27.9	6761.06	27.96	6761.06	28.03	6761.05	28.86	6761	28.96	6760.99
29.07	6760.98	29.83	6760.93	29.96	6760.92	30.11	6760.91	30.8	6760.86
30.96	6760.85	31.14	6760.83	31.76	6760.79	31.97	6760.78	32.18	6760.77
32.73	6760.74	32.97	6760.73	33.22	6760.72	33.7	6760.7	33.97	6760.68
34.26	6760.67	34.53	6760.65	34.66	6760.64	34.97	6760.62	35.29	6760.6
35.63	6760.58	35.97	6760.56	36.33	6760.54	36.6	6760.52	36.97	6760.5
37.37	6760.44	37.56	6760.41	37.97	6760.36	38.4	6760.3	38.53	6760.28
38.97	6760.22	39.45	6760.15	39.51	6760.15	39.95	6760.08	39.98	6760.08
40	6760.08	40.03	6760.08	40.47	6760.04	40.49	6760.01	40.98	6759.97
41.44	6759.94	41.53	6759.92	41.98	6759.89	42.41	6759.72	42.56	6759.63
42.98	6759.46	43.37	6759.26	43.6	6759.15	43.98	6758.95	44.34	6758.78
44.64	6758.62	44.98	6758.45	45.31	6758.4	45.68	6758.1	45.98	6758.05
46.27	6758	46.71	6757.92	46.98	6757.87	47.04	6757.82	47.24	6757.65
47.75	6757.2	47.99	6757	48.2	6756.81	48.79	6756.48	48.99	6756.31
49.17	6756.19	49.82	6755.78	49.99	6755.67	50.14	6755.58	50.86	6755.12
50.99	6755.04	51.1	6754.96	51.9	6754.46	51.99	6754.4	52.07	6754.36
52.94	6754.07	52.99	6754.04	53.04	6754.03	53.83	6754.01	53.97	6754.01
53.99	6754	54	6754	54.42	6753.99	54.98	6753.98	55.02	6753.98
55.95	6753.95	56.06	6753.95	56.23	6754.07	56.93	6754.55	57	6754.55
57.07	6754.6	57.93	6754.97	58	6755.02	58.07	6755.08	58.93	6755.7
59	6755.76	59.08	6755.81	59.55	6756.16	59.62	6756.21	59.92	6756.43
60	6756.49	60.0							

73.4	6760.26	77.01	6760.26	77.49	6760.39	77.54	6760.28	78.02	6760.41
78.51	6760.54	79.02	6760.68	79.49	6760.8	79.54	6760.82	80.02	6760.94
80.47	6761.07	80.56	6761.09	81.02	6761.21	81.45	6761.33	81.58	6761.36
82.02	6761.48	82.43	6761.5	82.61	6761.43	83.02	6761.46	83.41	6761.42
83.63	6761.41	84.02	6761.37	84.39	6761.34	84.65	6761.32	85.02	6761.29
85.36	6761.26	85.68	6761.24	86.02	6761.21	86.34	6761.18	86.71	6761.15
87.03	6761.13	87.33	6761.1	87.73	6761.04	88.03	6761.02	88.31	6760.98
88.76	6760.93	89.03	6760.89	89.29	6760.86	89.78	6760.8	90.03	6760.77
90.27	6760.74	90.8	6760.67	91.03	6760.64	91.24	6760.61	91.83	6760.54
92.03	6760.52	92.22	6760.51	92.85	6760.46	93.03	6760.46	93.2	6760.45
93.87	6760.4	94.03	6760.39	94.18	6760.38	94.9	6760.34	95.03	6760.33
95.16	6760.32	95.92	6760.27	96.03	6760.27	96.14	6760.26	96.94	6760.21
97.03	6760.2	97.11	6760.2	97.96	6760.19	98.03	6760.18	98.09	6760.18
98.99	6760.17	99.07	6760.17	100.01	6760.16	100.05	6760.16	100.89	6760.14
101.03	6760.14	102.01	6760.13	102.07	6760.13	102.99	6760.12	103.09	6760.12
103.97	6760.11	104.11	6760.11	104.95	6760.1	105.14	6760.1	105.93	6760.09
106.04	6760.09	106.16	6760.08	106.91	6760.08	107.04	6760.07	107.18	6760.07
107.89	6760	108.04	6760	108.21	6759.98	108.86	6759.93	109.04	6759.91
109.23	6759.9	109.84	6759.84	110.04	6759.82	110.25	6759.81	110.82	6759.76
111.04	6759.74	111.28	6759.72	111.8	6759.67	112.04	6759.65	112.3	6759.66
112.78	6759.67	113.04	6759.67	113.32	6759.68	113.76	6759.68	114.04	6759.69
114.34	6759.7	114.74	6759.7	115.04	6759.71	115.37	6759.72	115.71	6759.72
116.04	6759.73	116.39	6759.73	116.69	6759.74	117.41	6759.74	117.67	6759.73
118.06	6759.73	118.45	6759.72	119.06	6759.72	119.47	6759.71	119.64	6759.71
120.06	6759.7	120.62	6759.7	121.06	6759.69	121.52	6759.67	121.59	6759.68
122.06	6759.66	122.54	6759.65	122.57	6759.65	123.06	6759.64	123.55	6759.63
123.56	6759.63	124.06	6759.62	124.53	6759.61	124.59	6759.6	125.06	6759.59
125.51	6759.58	125.61	6759.58	126.06	6759.57	126.49	6759.56	126.63	6759.56
127.06	6759.55	127.46	6759.56	127.66	6759.56	128.06	6759.57	128.44	6759.58
128.68	6759.59	129.06	6759.6	129.42	6759.6	129.7	6759.61	130.06	6759.62
130.4	6759.63	130.72	6759.63	131.06	6759.64	131.38	6759.65	131.75	6759.67
132.06	6759.68	132.36	6759.68	132.77	6759.67	133.33	6759.67	133.8	6759.66
134.83	6759.66	135.07	6759.65	135.85	6759.65	136.07	6759.64	136.28	6759.64
136.87	6759.63	137.9	6759.63	138.07	6759.64	138.24	6759.64	138.92	6759.65
139.21	6759.65	139.94	6759.66	140.19	6759.66	140.97	6759.67	141.17	6759.67
141.99	6759.68	142.15	6759.68	143.01	6759.72	143.13	6759.72	144.03	6759.76
144.11	6759.76	145.06	6759.81	145.09	6759.81	145.68	6759.83	146.06	6759.85
146.08	6759.85	147.04	6759.9	147.07	6759.91	147.1	6759.91	148.02	6759.92
149.07	6759.92	149.16	6759.93	150.18	6759.93	150.97	6759.94	153.67	6759.94

Manning's n Values		num=		4			
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	25.51	.025	40	.035	66.96	.016

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	39.95	66.96		.3	.5

Downstream Deck/Roadway Coordinates							
num= 69							
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord
-5.34	6761.79		0	-5.22	6761.76		0
-5.04	6761.77		0	-.28	6761.72		0
4.74	6761.82		0	4.96	6761.83		0
9.96	6761.61		0	14.78	6761.54		0
19.81	6761.49		0	19.96	6761.49		0
24.96	6761.27		0	29.85	6761.21		0
30.06	6761.21		0	34.96	6761.03		0
39.96	6760.85		0	44.91	6760.49		0
49.93	6760.55		0	49.96	6760.55		0
55.13	6760.32		0	59.96	6760.2		0
64.96	6760.28		0	65	6760.28		0
70.02	6760.27		0	74.96	6760.02		0
79.96	6760.09		0	80.06	6760.09		0
85.09	6760		0	89.96	6759.89		0
94.96	6759.82		0	95.13	6759.82		0
104.75	6759.78		0	104.96	6759.78		0
109.96	6759.77		0	110.19	6759.77		0
115.21	6759.83		0	119.96	6759.77		0
124.96	6759.81		0	125.26	6759.82		0
130.28	6759.94		0	134.96	6760.1		0
139.96	6760.04		0	140.32	6760.05		0

145.34	6760.21	0	149.96	6760.32	0	150.28	6760.32	0
150.37	6760.32	0	153.94	6760.24	0	154.65	6760.22	0

Downstream Bridge Cross Section Data

Station	Elevation	Data	num=	358				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta
0	6761.83	.33	6761.83	.68	6761.82	.98	6761.81	1.33
1.69	6761.79	1.97	6761.78	2.33	6761.78	2.7	6761.77	2.96
3.33	6761.76	3.71	6761.75	3.95	6761.75	4.33	6761.74	6.33
6.74	6761.73	6.92	6761.74	7.33	6761.73	7.75	6761.71	7.91
8.33	6761.69	8.76	6761.68	8.9	6761.68	9.34	6761.66	9.78
9.9	6761.65	10.34	6761.63	10.79	6761.62	10.89	6761.62	11.34
11.8	6761.6	11.88	6761.59	14.34	6761.59	14.83	6761.56	14.85
15.34	6761.54	15.84	6761.51	16.34	6761.49	16.83	6761.46	16.85
17.34	6761.43	17.82	6761.39	17.86	6761.39	18.34	6761.36	18.81
18.87	6761.32	19.34	6761.28	19.8	6761.26	19.88	6761.25	20.34
20.79	6761.2	20.89	6761.2	21.34	6761.17	21.78	6761.15	21.9
22.34	6761.11	22.78	6761.08	22.91	6761.07	23.34	6761.04	23.77
23.92	6761	24.34	6760.97	29.35	6760.84	29.72	6760.78	29.99
30.35	6760.66	30.71	6760.59	31	6760.54	31.35	6760.47	31.7
32.01	6760.34	32.35	6760.27	32.69	6760.2	33.02	6760.13	33.35
33.66	6760	33.68	6760	34.03	6759.93	34.35	6759.86	34.67
35.04	6759.65	35.35	6759.55	35.66	6759.46	36.05	6759.34	36.35
36.65	6759.15	37.06	6759.03	37.35	6758.94	37.64	6758.84	38.07
38.35	6758.61	38.63	6758.52	39.08	6758.37	39.35	6758.28	39.62
40.09	6758	40.35	6757.9	40.61	6757.8	41.1	6757.61	41.35
41.6	6757.41	42.11	6757.23	42.35	6757.14	42.59	6757.05	43.12
43.35	6756.77	43.58	6756.69	43.72	6756.64	44.13	6756.49	44.35
44.57	6756.31	45.14	6756.06	45.35	6755.97	45.56	6755.88	46.16
46.36	6755.54	46.56	6755.46	47.17	6755.16	47.36	6755.08	47.55
48.18	6754.7	48.36	6754.62	48.54	6754.53	49.19	6754.23	49.36
49.53	6754.08	50.2	6753.82	50.36	6753.76	50.52	6753.7	51.21
51.36	6753.52	51.51	6753.5	52.22	6753.3	52.36	6753.28	52.5
53.23	6753.05	53.36	6753.02	53.49	6753	54.24	6752.88	54.36
54.48	6752.88	55.25	6753.06	55.36	6753.08	55.47	6753.1	55.69
56.23	6753.27	56.26	6753.28	56.36	6753.3	56.46	6753.32	57.27
57.36	6753.67	57.45	6753.72	58.29	6754.02	58.36	6754.07	58.44
59.3	6754.85	59.36	6754.91	59.43	6754.96	60.31	6755.6	60.36
60.42	6755.68	61.32	6756.33	61.36	6756.37	61.41	6756.4	62.33
62.36	6757.07	62.4	6757.1	63.34	6757.76	63.36	6757.78	63.39
63.59	6757.94	64.35	6758.47	64.36	6758.49	64.38	6758.49	65.37
65.37	6758.83	65.38	6758.83	66.1	6759.07	66.37	6759.17	67.36
67.37	6759.53	67.39	6759.53	68.35	6759.88	68.37	6759.88	68.4
68.7	6760	68.74	6760.01	69.34	6760.23	69.37	6760.24	69.41
70.33	6760.28	70.42	6760.28	71.32	6760.32	71.43	6760.32	72.31
72.37	6760.37	72.44	6760.37	73.3	6760.41	73.37	6760.42	73.45
74.29	6760.46	74.37	6760.47	74.46	6760.47	75.28	6760.5	75.47
76.27	6760.53	76.37	6760.54	76.48	6760.54	77.26	6760.55	77.49
78.25	6760.56	78.37	6760.57	78.5	6760.57	79.24	6760.58	79.51
80.23	6760.59	80.37	6760.6	80.52	6760.59	81.22	6760.61	81.53
82.21	6760.6	82.37	6760.59	82.54	6760.59	83.21	6760.58	83.56
84.2	6760.57	84.38	6760.56	84.57	6760.53	85.19	6760.43	85.38
85.58	6760.38	86.18	6760.27	86.38	6760.25	86.59	6760.24	87.17
87.38	6760.16	87.6	6760.14	88.16	6760.09	88.38	6760.07	88.61
89.15	6760	89.38	6759.98	89.62	6759.98	90.14	6759.99	90.38
90.63	6760	91.13	6760.02	91.39	6760.01	92.65	6760.01	93.11
94.67	6760	95.09	6760.01	95.39	6760.01	95.68	6760.02	96.08
97.08	6760.03	97.39	6760.04	98.71	6760.04	99.06	6760.05	99.39
99.72	6760.04	100.73	6760.04	101.04	6760.03	104.4	6760.03	104.78
105.01	6760.05	105.4	6760.06	105.79	6760.07	106	6760.08	106.4
106.8	6760.1	106.99	6760.11	107.4	6760.12	107.81	6760.13	107.98
108.4	6760.14	108.82	6760.15	108.97	6760.15	109.4	6760.16	109.96
110.4	6760.17	110.84	6760.16	110.95	6760.17	111.4	6760.17	111.85
111.94	6760.16	112.4	6760.15	112.93	6760.15	113.4	6760.14	113.87
118.4	6760.13	118.87	6760.14	119.4	6760.14	119.87	6760.15	119.95
120.41	6760.16	120.86	6760.17	120.96	6760.18	121.41	6760.19	121.85
121.97	6760.22	122.41	6760.23	122.84	6760.25	122.98	6760.25	123.38
123.41	6760.27	123.82	6760.29	123.99	6760.29	124.41	6760.31	124.8
125.02	6760.32	125.41	6760.32	125.78	6760.33	126.04	6760.34	126.41
126.76	6760.36	127.06	6760.37	127.41	6760.38	127.74	6760.39	128.09
128.41	6760.4	128.72	6760.41	129.11	6760.42	129.41	6760.43	129.69

130.13	6760.44	133.2	6760.44	133.41	6760.43	134.59	6760.43	135.25	6760.42
135.41	6760.42	135.57	6760.41	136.27	6760.4	136.54	6760.4	137.29	6760.39
137.52	6760.39	138.32	6760.37	138.51	6760.37	139.35	6760.36	140.47	6760.36
141.39	6760.35	142.42	6760.35	142.63	6760.34	144.38	6760.34	144.42	6760.33
144.46	6760.34	145.36	6760.35	145.42	6760.36	145.49	6760.36	146.34	6760.37
146.51	6760.37	147.32	6760.39	147.53	6760.39	148.3	6760.4	148.42	6760.41
148.55	6760.41	149.28	6760.42	149.31	6760.42				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	33.66	.04	68.7	.016

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	33.66	68.7	.3	.5

Upstream Embankment side slope = 3 horiz. to 1.0 vertical
 Downstream Embankment side slope = 3 horiz. to 1.0 vertical
 Maximum allowable submergence for weir flow = .98
 Elevation at which weir flow begins =
 Energy head used in spillway design =
 Spillway height used in design =
 Weir crest shape = Broad Crested

Number of Culverts = 1

Culvert Name	Shape	Rise	Span
Culvert #1	Circular	6	

FHWA Chart # 2 - Corrugated Metal Pipe Culvert
 FHWA Scale # 2 - Mitered to conform to slope
 Solution Criteria = Highest U.S. EG

Culvert	Upstrm	Dist	Length	Top n	Bottom n	Depth Blocked	Entrance Loss	Coef	Exit Loss
Coef		3.35	60	.024	.024	0		.5	1

Upstream Elevation = 6753.81
 Centerline Station = 53.93
 Downstream Elevation = 6752.73
 Centerline Station = 55.78

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 996

INPUT

Description:

Station	Elevation	Data	num=	358
Sta	Elev	Sta	Elev	Sta Elev Sta Elev
0	6761.83	.33	6761.83	.68 6761.82 .98 6761.81 1.33 6761.8
1.69	6761.79	1.97	6761.78	2.33 6761.78 2.7 6761.77 2.96 6761.77
3.33	6761.76	3.71	6761.75	3.95 6761.75 4.33 6761.74 6.33 6761.74
6.74	6761.73	6.92	6761.74	7.33 6761.73 7.75 6761.71 7.91 6761.71
8.33	6761.69	8.76	6761.68	8.9 6761.68 9.34 6761.66 9.78 6761.65
9.9	6761.65	10.34	6761.63	10.79 6761.62 10.89 6761.62 11.34 6761.61
11.8	6761.6	11.88	6761.59	14.34 6761.59 14.83 6761.56 14.85 6761.56
15.34	6761.54	15.84	6761.51	16.34 6761.49 16.83 6761.46 16.85 6761.45
17.34	6761.43	17.82	6761.39	17.86 6761.39 18.34 6761.36 18.81 6761.32
18.87	6761.32	19.34	6761.28	19.8 6761.26 19.88 6761.25 20.34 6761.23
20.79	6761.2	20.89	6761.2	21.34 6761.17 21.78 6761.15 21.9 6761.14
22.34	6761.11	22.78	6761.08	22.91 6761.07 23.34 6761.04 23.77 6761.01
23.92	6761	24.34	6760.97	29.35 6760.84 29.72 6760.78 29.99 6760.72
30.35	6760.66	30.71	6760.59	31 6760.54 31.35 6760.47 31.7 6760.41
32.01	6760.34	32.35	6760.27	32.69 6760.2 33.02 6760.13 33.35 6760.07
33.66	6760	33.68	6760	34.03 6759.93 34.35 6759.86 34.67 6759.76
35.04	6759.65	35.35	6759.55	35.66 6759.46 36.05 6759.34 36.35 6759.25
36.65	6759.15	37.06	6759.03	37.35 6758.94 37.64 6758.84 38.07 6758.7
38.35	6758.61	38.63	6758.52	39.08 6758.37 39.35 6758.28 39.62 6758.18
40.09	6758	40.35	6757.9	40.61 6757.8 41.1 6757.61 41.35 6757.51
41.6	6757.41	42.11	6757.23	42.35 6757.14 42.59 6757.05 43.12 6756.86
43.35	6756.77	43.58	6756.69	43.72 6756.64 44.13 6756.49 44.35 6756.41
44.57	6756.31	45.14	6756.06	45.35 6755.97 45.56 6755.88 46.16 6755.63

46.36	6755.54	46.56	6755.46	47.17	6755.16	47.36	6755.08	47.55	6754.99
48.18	6754.7	48.36	6754.62	48.54	6754.53	49.19	6754.23	49.36	6754.15
49.53	6754.08	50.2	6753.82	50.36	6753.76	50.52	6753.7	51.21	6753.57
51.36	6753.52	51.51	6753.5	52.22	6753.3	52.36	6753.28	52.5	6753.25
53.23	6753.05	53.36	6753.02	53.49	6753	54.24	6752.88	54.36	6752.86
54.48	6752.88	55.25	6753.06	55.36	6753.08	55.47	6753.1	55.69	6753.15
56.23	6753.27	56.26	6753.28	56.36	6753.3	56.46	6753.32	57.27	6753.65
57.36	6753.67	57.45	6753.72	58.29	6754.02	58.36	6754.07	58.44	6754.14
59.3	6754.85	59.36	6754.91	59.43	6754.96	60.31	6755.6	60.36	6755.64
60.42	6755.68	61.32	6756.33	61.36	6756.37	61.41	6756.4	62.33	6757.05
62.36	6757.07	62.4	6757.1	63.34	6757.76	63.36	6757.78	63.39	6757.8
63.59	6757.94	64.35	6758.47	64.36	6758.49	64.38	6758.49	65.37	6758.82
65.37	6758.83	65.38	6758.83	66.1	6759.07	66.37	6759.17	67.36	6759.52
67.37	6759.53	67.39	6759.53	68.35	6759.88	68.37	6759.88	68.4	6759.89
68.7	6760	68.74	6760.01	69.34	6760.23	69.37	6760.24	69.41	6760.24
70.33	6760.28	70.42	6760.28	71.32	6760.32	71.43	6760.32	72.31	6760.36
72.37	6760.37	72.44	6760.37	73.3	6760.41	73.37	6760.42	73.45	6760.42
74.29	6760.46	74.37	6760.47	74.46	6760.47	75.28	6760.5	75.47	6760.5
76.27	6760.53	76.37	6760.54	76.48	6760.54	77.26	6760.55	77.49	6760.55
78.25	6760.56	78.37	6760.57	78.5	6760.57	79.24	6760.58	79.51	6760.58
80.23	6760.59	80.37	6760.6	80.52	6760.59	81.22	6760.61	81.53	6760.61
82.21	6760.6	82.37	6760.59	82.54	6760.59	83.21	6760.58	83.56	6760.58
84.2	6760.57	84.38	6760.56	84.57	6760.53	85.19	6760.43	85.38	6760.4
85.58	6760.38	86.18	6760.27	86.38	6760.25	86.59	6760.24	87.17	6760.18
87.38	6760.16	87.6	6760.14	88.16	6760.09	88.38	6760.07	88.61	6760.05
89.15	6760	89.38	6759.98	89.62	6759.98	90.14	6759.99	90.38	6760
90.63	6760	91.13	6760.02	91.39	6760.01	92.65	6760.01	93.11	6760
94.67	6760	95.09	6760.01	95.39	6760.01	95.68	6760.02	96.08	6760.03
97.08	6760.03	97.39	6760.04	98.71	6760.04	99.06	6760.05	99.39	6760.05
99.72	6760.04	100.73	6760.04	101.04	6760.03	104.4	6760.03	104.78	6760.04
105.01	6760.05	105.4	6760.06	105.79	6760.07	106	6760.08	106.4	6760.09
106.8	6760.1	106.99	6760.11	107.4	6760.12	107.81	6760.13	107.98	6760.13
108.4	6760.14	108.82	6760.15	108.97	6760.15	109.4	6760.16	109.96	6760.16
110.4	6760.17	110.84	6760.16	110.95	6760.17	111.4	6760.17	111.85	6760.16
111.94	6760.16	112.4	6760.15	112.93	6760.15	113.4	6760.14	113.87	6760.13
118.4	6760.13	118.87	6760.14	119.4	6760.14	119.87	6760.15	119.95	6760.15
120.41	6760.16	120.86	6760.17	120.96	6760.18	121.41	6760.19	121.85	6760.21
121.97	6760.22	122.41	6760.23	122.84	6760.25	122.98	6760.25	123.38	6760.27
123.41	6760.27	123.82	6760.29	123.99	6760.29	124.41	6760.31	124.8	6760.31
125.02	6760.32	125.41	6760.32	125.78	6760.33	126.04	6760.34	126.41	6760.35
126.76	6760.36	127.06	6760.37	127.41	6760.38	127.74	6760.39	128.09	6760.4
128.41	6760.4	128.72	6760.41	129.11	6760.42	129.41	6760.43	129.69	6760.43
130.13	6760.44	133.2	6760.44	133.41	6760.43	134.59	6760.43	135.25	6760.42
135.41	6760.42	135.57	6760.41	136.27	6760.4	136.54	6760.4	137.29	6760.39
137.52	6760.39	138.32	6760.37	138.51	6760.37	139.35	6760.36	140.47	6760.36
141.39	6760.35	142.42	6760.35	142.63	6760.34	144.38	6760.34	144.42	6760.33
144.46	6760.34	145.36	6760.35	145.42	6760.36	145.49	6760.36	146.34	6760.37
146.51	6760.37	147.32	6760.39	147.53	6760.39	148.3	6760.4	148.42	6760.41
148.55	6760.41	149.28	6760.42	149.31	6760.42				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	33.66	.04	68.7	.016

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	33.66	68.7		207.67	207.09	207.67		.3	.5

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 995.7

INPUT

Description:

Station	Elevation	Data	num=	399					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.96	.2	6761.96	.36	6761.95	.53	6761.95	1.19	6761.93
1.36	6761.92	1.54	6761.92	2.18	6761.9	2.54	6761.88	3.18	6761.86
3.36	6761.86	3.55	6761.85	4.17	6761.83	4.2	6761.83	4.2	6761.97
4.63	6761.97	5.01	6761.95	5.25	6761.93	5.63	6761.92	6.01	6761.9

6.25	6761.89	6.63	6761.87	7.02	6761.86	7.24	6761.85	7.63	6761.84
8.02	6761.83	8.23	6761.82	8.63	6761.81	9.03	6761.8	9.23	6761.79
9.63	6761.78	10.04	6761.78	10.22	6761.79	10.63	6761.79	11.04	6761.8
11.63	6761.8	12.05	6761.81	12.21	6761.81	12.63	6761.82	13.05	6761.82
13.2	6761.84	13.63	6761.85	14.06	6761.86	14.2	6761.87	14.63	6761.88
18.08	6761.88	18.18	6761.87	19.63	6761.87	20.1	6761.85	20.16	6761.84
20.63	6761.82	21.1	6761.8	21.16	6761.8	21.63	6761.78	22.11	6761.76
22.15	6761.76	22.63	6761.74	23.11	6761.72	23.15	6761.72	23.63	6761.7
24.12	6761.68	24.14	6761.68	24.63	6761.67	25.13	6761.67	25.63	6761.66
27.63	6761.66	28.12	6761.65	28.14	6761.66	28.63	6761.65	29.11	6761.64
29.63	6761.64	30.11	6761.62	30.16	6761.62	30.63	6761.61	31.1	6761.6
31.16	6761.6	31.63	6761.59	32.09	6761.58	32.17	6761.57	32.63	6761.56
33.09	6761.55	33.17	6761.55	33.63	6761.53	34.08	6761.52	34.18	6761.51
34.63	6761.49	39.63	6761.14	40.05	6761.06	40.22	6761.03	40.63	6760.95
41.04	6760.87	41.22	6760.84	41.63	6760.76	41.95	6760.7	41.97	6760.7
42.03	6760.69	42.23	6760.66	42.63	6760.58	43.03	6760.51	43.23	6760.47
43.63	6760.4	44.02	6760.35	44.24	6760.31	44.63	6760.25	45.02	6760.18
45.25	6760.13	45.63	6760.05	45.8	6760.02	46.01	6759.98	46.25	6759.93
46.63	6759.85	47.01	6759.78	47.26	6759.72	47.63	6759.65	48	6759.56
48.26	6759.52	48.63	6759.43	48.99	6759.34	49.27	6759.28	49.63	6759.19
49.99	6758.99	50.28	6758.84	50.63	6758.65	50.98	6758.5	51.28	6758.38
51.63	6758.23	51.98	6758.1	52.29	6757.97	52.63	6757.84	52.97	6757.7
53.29	6757.57	53.63	6757.44	53.96	6757.31	54.3	6757.17	54.45	6757.11
54.63	6757.04	54.96	6756.91	55.31	6756.78	55.63	6756.65	55.95	6756.52
56.31	6756.38	56.63	6756.26	56.95	6756.13	57.32	6755.99	57.63	6755.86
57.94	6755.74	58.32	6755.59	58.63	6755.47	58.93	6755.3	59.33	6755.18
59.63	6755	59.93	6754.95	60.34	6754.7	60.63	6754.65	60.92	6754.57
61.34	6754.52	61.63	6754.44	61.92	6754.32	62.35	6754.24	62.63	6754.13
62.91	6754.15	63.35	6754.25	63.63	6754.27	63.91	6754.36	64.36	6754.32
64.63	6754.41	64.9	6754.34	65.21	6754.28	65.37	6754.25	65.63	6754.18
65.89	6754.22	66.37	6754.25	66.63	6754.29	66.89	6754.41	66.95	6754.44
67.38	6754.65	67.63	6754.77	67.88	6754.89	68.38	6755.13	68.63	6755.25
68.88	6755.36	69.39	6755.61	69.63	6755.72	69.87	6755.76	70.4	6755.87
70.63	6755.92	70.86	6755.96	71.4	6756.12	71.63	6756.17	71.86	6756.23
72.41	6756.38	72.63	6756.44	72.85	6756.5	73.41	6756.65	73.63	6756.71
73.85	6756.77	74.42	6756.92	74.63	6756.98	74.84	6756.98	75.43	6756.97
75.83	6756.97	76.43	6756.96	76.83	6756.96	77.44	6756.95	77.63	6756.95
77.82	6756.96	78.44	6756.94	78.63	6756.95	78.82	6756.96	79.45	6756.99
79.63	6757	79.81	6757.01	80.46	6757.06	80.63	6757.08	80.81	6757.09
81.46	6757.14	81.63	6757.15	81.8	6757.16	82.47	6757.21	82.63	6757.23
82.79	6757.23	83.47	6757.29	83.63	6757.3	83.79	6757.3	84.48	6757.34
84.63	6757.34	84.78	6757.35	85.49	6757.39	85.63	6757.4	85.78	6757.41
86.49	6757.45	86.63	6757.46	86.77	6757.47	87.5	6757.51	87.63	6757.52
87.76	6757.53	88.5	6757.57	88.63	6757.58	88.67	6757.58	88.76	6757.59
89.5	6757.63	89.63	6757.64	89.77	6757.65	90.48	6757.71	90.63	6757.72
90.78	6757.74	91.47	6757.8	91.63	6757.82	91.79	6757.85	92.46	6757.94
92.63	6757.98	92.8	6758.02	93.45	6758.17	93.63	6758.21	93.82	6758.25
94.44	6758.39	94.63	6758.43	94.83	6758.46	95.43	6758.52	95.63	6758.55
95.84	6758.55	96.42	6758.61	96.85	6758.61	97.41	6758.67	97.86	6758.67
98.4	6758.68	98.87	6758.68	99.39	6758.69	99.63	6758.69	99.88	6758.7
100.38	6758.74	100.63	6758.76	100.89	6758.78	101.37	6758.81	101.63	6758.83
101.91	6758.85	102.35	6758.88	102.63	6758.9	102.92	6758.93	103.34	6758.95
103.63	6758.98	103.93	6759	104.33	6759.03	104.63	6759.06	104.94	6759.08
105.32	6759.1	105.63	6759.13	105.95	6759.15	106.31	6759.17	106.63	6759.2
106.96	6759.22	107.3	6759.24	107.63	6759.26	107.97	6759.29	108.29	6759.31
108.63	6759.33	108.98	6759.36	109.28	6759.38	109.63	6759.4	109.99	6759.42
110.27	6759.43	110.63	6759.44	111.01	6759.45	111.26	6759.46	111.63	6759.48
112.02	6759.49	112.25	6759.5	112.63	6759.51	113.03	6759.52	113.24	6759.54
113.63	6759.54	114.04	6759.55	114.22	6759.56	114.63	6759.57	115.63	6759.57
116.06	6759.58	117.19	6759.58	117.63	6759.59	118.63	6759.59	119.1	6759.6
119.17	6759.6	119.63	6759.61	120.11	6759.64	120.16	6759.64	120.63	6759.67
121.12	6759.69	121.15	6759.7	121.63	6759.72	122.13	6759.75	122.14	6759.75
122.63	6759.78	123.13	6759.81	123.14	6759.82	123.63	6759.84	124.12	6759.88
124.15	6759.88	124.63	6759.91	125.11	6759.93	125.16	6759.93	125.63	6759.95
126.1	6759.97	126.17	6759.97	126.63	6759.99	127.08	6760	127.18	6760.01
127.63	6760.02	128.07	6760.04	128.2	6760.05	128.63	6760.06	129.06	6760.08
129.21	6760.09	129.63	6760.11	130.05	6760.13	130.22	6760.14	130.63	6760.16
131.04	6760.19	131.23	6760.2	131.63	6760.22	132.03	6760.24	132.24	6760.25
132.63	6760.27	133.02	6760.29	133.25	6760.3	133.63	6760.32	134.01	6760.34
134.26	6760.36	134.63	6760.38	135	6760.39	135.27	6760.4	135.63	6760.42
135.99	6760.43	136.29	6760.44	136.63	6760.45	136.98	6760.47	137.3	6760.48

[illegible]

86.13	6758.05	86.76	6758.1	86.93	6758.02	87.1	6758.03	87.79	6757.92
87.93	6757.93	88.07	6757.95	88.82	6758.07	88.93	6758.09	89.04	6758.1
89.85	6758.13	89.93	6758.14	90.01	6758.14	90.88	6758.18	90.99	6758.18
91.91	6758.22	91.96	6758.22	92.81	6758.25	92.93	6758.26	93.9	6758.34
93.93	6758.35	93.97	6758.35	94.87	6758.42	95	6758.42	95.85	6758.55
95.94	6758.56	96.03	6758.56	96.82	6758.69	96.94	6758.69	97.06	6758.71
97.79	6758.81	97.94	6758.84	98.09	6758.86	98.76	6758.95	98.94	6758.98
99.12	6758.98	99.74	6758.97	100.15	6758.97	100.71	6758.96	101.18	6758.96
101.68	6758.95	102.21	6758.95	102.65	6758.94	103.24	6758.94	103.62	6758.93
103.94	6758.93	104.27	6758.94	104.6	6758.96	104.94	6758.98	105.3	6758.99
105.57	6759	105.94	6759.02	106.33	6759.04	106.54	6759.05	106.94	6759.07
107.36	6759.08	107.51	6759.14	107.94	6759.16	108.39	6759.19	108.49	6759.18
108.94	6759.21	109.42	6759.23	109.46	6759.23	109.94	6759.24	110.43	6759.26
110.45	6759.26	110.94	6759.28	111.4	6759.28	111.48	6759.29	111.94	6759.3
112.37	6759.29	112.51	6759.28	112.94	6759.28	113.35	6759.25	113.55	6759.24
113.94	6759.21	114.32	6759.17	114.58	6759.15	114.94	6759.12	115.29	6759.09
115.61	6759.07	115.94	6759.04	116.26	6759.02	116.64	6759.04	116.94	6759.03
117.23	6759.03	117.67	6759.06	117.94	6759.05	118.21	6759.08	118.7	6759.11
118.94	6759.13	119.18	6759.15	119.73	6759.18	119.95	6759.19	120.15	6759.2
120.76	6759.23	120.95	6759.24	121.12	6759.25	121.79	6759.27	121.95	6759.29
122.1	6759.31	122.82	6759.34	122.95	6759.36	123.07	6759.38	123.85	6759.49
123.95	6759.5	124.04	6759.49	124.88	6759.39	124.95	6759.39	125.01	6759.38
125.91	6759.28	125.95	6759.28	125.98	6759.27	126.94	6759.16	126.96	6759.16
127.24	6759.13	127.93	6759.06	127.97	6759.06	128.9	6759.01	129	6759.01
129.87	6759.04	130.03	6759.04	130.08	6759.05	130.77	6759.12		

Manning's n Values		num=		4			
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	27.93	.025	40.87	.035	65.87	.045

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	40.87	65.87		105.25 105.25	105.25		.3	.5

CULVERT

RIVER: Walton Creek
 REACH: lower-split RS: 995.45

INPUT

Description: Ingles Lane
 Distance from Upstream XS = 5
 Deck/Roadway Width = 40
 Weir Coefficient = 2.6
 Upstream Deck/Roadway Coordinates

num= 293											
Sta	Hi	Cord	Lo Cord	Sta	Hi	Cord	Lo Cord	Sta	Hi	Cord	Lo Cord
2.81	6762.09		0	3.1	6762.09		0	3.12	6762.09		0
3.15	6762.09		0	4.12	6762.13		0	4.51	6762.15		0
5.11	6762.17		0	5.12	6762.17		0	5.13	6762.17		0
6.1	6762.17		0	6.12	6762.17		0	6.15	6762.17		0
7.08	6762.17		0	7.12	6762.17		0	7.17	6762.17		0
8.07	6762.16		0	8.12	6762.16		0	8.18	6762.16		0
9.05	6762.16		0	9.12	6762.16		0	9.2	6762.16		0
10.04	6762.16		0	10.12	6762.15		0	10.22	6762.15		0
11.02	6762.11		0	11.12	6762.1		0	11.23	6762.1		0
12	6762.06		0	12.12	6762.05		0	12.25	6762.05		0
12.99	6762.01		0	13.12	6762		0	13.27	6762		0
13.97	6761.96		0	14.13	6761.95		0	14.28	6761.95		0
14.96	6761.91		0	15.13	6761.9		0	15.3	6761.9		0
15.94	6761.89		0	16.13	6761.88		0	16.31	6761.88		0
16.93	6761.86		0	17.13	6761.85		0	17.33	6761.84		0
17.91	6761.83		0	18.13	6761.82		0	18.35	6761.81		0
18.9	6761.79		0	19.13	6761.79		0	19.36	6761.78		0
19.88	6761.76		0	20.13	6761.76		0	20.38	6761.75		0
20.86	6761.75		0	21.13	6761.75		0	21.4	6761.75		0
21.85	6761.75		0	22.13	6761.74		0	22.41	6761.74		0
22.83	6761.74		0	23.13	6761.74		0	23.43	6761.74		0
23.82	6761.73		0	24.13	6761.73		0	24.45	6761.73		0
24.8	6761.73		0	25.13	6761.72		0	25.46	6761.7		0
25.79	6761.68		0	26.13	6761.66		0	26.48	6761.63		0

26.77	6761.61	0	27.13	6761.59	0	27.49	6761.57	0
27.75	6761.55	0	28.13	6761.52	0	28.51	6761.5	0
28.74	6761.48	0	29.13	6761.45	0	29.53	6761.43	0
29.72	6761.44	0	30.13	6761.41	0	30.54	6761.4	0
30.71	6761.38	0	31.13	6761.37	0	31.56	6761.36	0
31.69	6761.36	0	32.13	6761.35	0	32.58	6761.34	0
32.68	6761.34	0	33.13	6761.33	0	33.59	6761.33	0
33.66	6761.32	0	34.13	6761.32	0	34.61	6761.31	0
34.65	6761.31	0	35.13	6761.3	0	35.63	6761.27	0
36.13	6761.24	0	36.61	6761.21	0	36.64	6761.21	0
37.13	6761.19	0	37.6	6761.16	0	37.66	6761.16	0
38.13	6761.13	0	38.58	6761.11	0	38.68	6761.1	0
39.13	6761.08	0	39.57	6761.05	0	39.69	6761.05	0
40.13	6761.02	0	40.55	6760.97	0	40.71	6761	0
41.13	6760.95	0	41.54	6760.93	0	41.72	6760.93	0
42.13	6760.91	0	42.52	6760.9	0	42.74	6760.89	0
43.13	6760.88	0	43.5	6760.87	0	43.76	6760.85	0
44.13	6760.85	0	44.49	6760.86	0	44.77	6760.82	0
45.13	6760.84	0	45.47	6760.82	0	45.79	6760.81	0
46.13	6760.79	0	46.46	6760.78	0	46.81	6760.76	0
47.13	6760.75	0	47.44	6760.73	0	47.82	6760.72	0
48.13	6760.7	0	48.43	6760.69	0	48.84	6760.67	0
49.13	6760.66	0	49.41	6760.65	0	49.86	6760.63	0
50.13	6760.61	0	50.39	6760.58	0	50.87	6760.57	0
51.13	6760.54	0	51.38	6760.52	0	51.89	6760.49	0
52.13	6760.48	0	52.36	6760.46	0	52.91	6760.43	0
53.13	6760.42	0	53.35	6760.41	0	53.92	6760.38	0
54.13	6760.37	0	54.33	6760.35	0	54.94	6760.32	0
55.13	6760.31	0	55.32	6760.3	0	55.95	6760.28	0
56.13	6760.28	0	56.3	6760.27	0	56.97	6760.25	0
57.13	6760.24	0	59.13	6760.17	0	59.25	6760.17	0
60.02	6760.14	0	60.13	6760.14	0	60.24	6760.14	0
61.04	6760.12	0	61.13	6760.12	0	61.22	6760.12	0
62.05	6760.1	0	62.13	6760.1	0	62.21	6760.1	0
63.07	6760.09	0	63.13	6760.09	0	63.19	6760.09	0
64.09	6760.07	0	64.13	6760.07	0	64.18	6760.07	0
65.1	6760.05	0	65.13	6760.05	0	65.16	6760.05	0
66.12	6760.06	0	66.13	6760.06	0	66.14	6760.06	0
66.95	6760.08	0	67.13	6760.08	0	68.11	6760.09	0
68.13	6760.09	0	68.15	6760.09	0	69.1	6760.1	0
69.13	6760.1	0	69.17	6760.11	0	70.08	6760.12	0
70.13	6760.12	0	70.18	6760.12	0	71.07	6760.1	0
71.13	6760.1	0	71.2	6760.1	0	72.05	6760.08	0
72.13	6760.08	0	72.22	6760.08	0	73.04	6760.06	0
73.13	6760.06	0	73.23	6760.06	0	74.02	6760.04	0
74.13	6760.04	0	74.25	6760.04	0	75	6760.02	0
75.13	6760.02	0	75.27	6760.01	0	75.99	6759.88	0
76.13	6759.87	0	76.28	6759.87	0	76.97	6759.88	0
77.13	6759.87	0	77.3	6759.86	0	77.96	6759.83	0
78.13	6759.83	0	78.32	6759.82	0	78.94	6759.79	0
79.13	6759.78	0	79.33	6759.78	0	79.93	6759.75	0
80.13	6759.74	0	80.35	6759.73	0	80.91	6759.7	0
81.13	6759.68	0	81.36	6759.67	0	81.89	6759.77	0
82.13	6759.76	0	82.38	6759.74	0	82.88	6759.78	0
83.13	6759.76	0	83.4	6759.75	0	83.86	6759.78	0
84.13	6759.76	0	84.41	6759.75	0	84.85	6759.78	0
85.13	6759.76	0	85.43	6759.75	0	85.83	6759.58	0
86.13	6759.57	0	86.45	6759.57	0	86.82	6759.52	0
87.13	6759.52	0	87.46	6759.52	0	87.8	6759.62	0
88.13	6759.62	0	88.48	6759.63	0	88.79	6759.6	0
89.13	6759.61	0	89.5	6759.63	0	89.77	6759.74	0
90.13	6759.75	0	90.51	6759.74	0	90.75	6759.72	0
91.14	6759.71	0	91.53	6759.73	0	91.74	6759.68	0
92.14	6759.7	0	92.55	6759.69	0	92.72	6759.67	0
93.14	6759.66	0	93.56	6759.67	0	93.71	6759.64	0
94.14	6759.65	0	94.58	6759.65	0	94.69	6759.62	0
95.14	6759.62	0	95.59	6759.63	0	95.68	6759.63	0
96.14	6759.64	0	96.61	6759.65	0	96.66	6759.65	0
97.14	6759.65	0	97.42	6759.66	0	97.62	6759.66	0
97.66	6759.66	0	98.14	6759.66	0	98.51	6759.66	0
98.83	6759.66	0	99.15	6759.66	0	99.25	6759.67	0

99.42	6759.67	0	99.89	6759.67	0	100.15	6759.68	0
100.42	6759.68	0	100.89	6759.69	0	101.15	6759.69	0
101.42	6759.69	0	101.64	6759.69	0			

Upstream Bridge Cross Section Data

Station Elevation Data		num=		364					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6762.15	.94	6762.15	1.86	6762.12	1.96	6762.12	2.84	6762.1
2.98	6762.1	3.83	6762.07	4	6762.07	4.81	6762.03	4.91	6762.02
5.02	6762.02	5.79	6761.98	5.91	6761.98	6.04	6761.97	6.77	6761.94
6.91	6761.93	7.06	6761.93	7.75	6761.89	7.91	6761.89	8.08	6761.88
8.73	6761.87	9.1	6761.87	9.71	6761.88	10.12	6761.88	10.69	6761.89
11.14	6761.89	11.67	6761.9	12.16	6761.9	12.66	6761.91	13.91	6761.91
14.2	6761.9	14.62	6761.89	14.91	6761.89	15.22	6761.88	15.6	6761.87
15.91	6761.87	16.24	6761.86	16.58	6761.85	16.91	6761.84	17.26	6761.83
17.56	6761.83	17.92	6761.82	18.28	6761.81	18.54	6761.8	18.92	6761.79
19.3	6761.76	19.52	6761.74	19.92	6761.71	20.32	6761.67	20.51	6761.66
20.92	6761.63	21.34	6761.59	21.49	6761.58	21.92	6761.55	22.36	6761.52
22.47	6761.51	22.92	6761.48	23.38	6761.46	23.45	6761.45	23.92	6761.43
24.43	6761.43	24.92	6761.44	27.93	6761.44	29.34	6761.44	29.5	6761.43
29.92	6761.43	30.32	6761.35	30.52	6761.44	30.92	6761.36	31.3	6761.19
31.54	6761.06	31.92	6760.89	32.28	6761.01	32.56	6761.1	32.92	6761.21
33.26	6761.27	33.58	6761.21	33.92	6761.27	34.24	6761.21	34.6	6761.15
34.92	6761.1	35.22	6761.05	35.62	6760.97	35.92	6760.92	36.2	6760.86
36.64	6760.76	36.92	6760.7	37.19	6760.64	37.66	6760.54	37.92	6760.49
38.17	6760.45	38.68	6760.36	38.92	6760.32	39.15	6760.25	39.7	6760.06
39.92	6759.99	40.13	6759.92	40.72	6759.72	40.86	6759.67	40.87	6759.67
40.92	6759.65	41.11	6759.59	41.74	6759.37	41.92	6759.31	42.09	6759.26
42.76	6759.02	42.92	6758.97	43.07	6758.92	43.78	6758.67	43.92	6758.62
44.05	6758.56	44.8	6758.2	44.92	6758.15	45.04	6758.09	45.82	6757.72
45.92	6757.67	46.02	6757.62	46.84	6757.23	46.92	6757.19	47	6757.16
47.86	6756.72	47.92	6756.69	47.98	6756.66	48.88	6756.21	48.92	6756.19
48.96	6756.17	49.9	6755.81	49.92	6755.8	49.94	6755.79	50.92	6755.41
51.01	6755.37	51.9	6755.03	51.92	6755.02	51.94	6755.01	52.89	6754.61
52.92	6754.59	52.96	6754.58	53.37	6754.4	53.87	6754.19	53.92	6754.17
53.98	6754.16	54.85	6754.04	54.92	6754.03	55	6754.02	55.83	6753.9
55.92	6753.89	56.02	6753.88	56.81	6753.76	56.92	6753.76	57.04	6753.74
57.79	6753.74	57.92	6753.73	58.06	6753.69	58.77	6752.7	58.84	6752.69
58.92	6752.67	59.08	6752.66	59.75	6753.08	59.92	6753.07	60.1	6753.11
60.74	6753.4	60.92	6753.44	61.12	6753.44	61.72	6753.46	61.92	6753.47
62.14	6753.5	62.7	6753.49	62.92	6753.52	63.16	6753.89	63.68	6754.76
63.92	6755.14	64.18	6755.35	64.66	6755.73	64.92	6755.94	65.2	6756.14
65.64	6756.24	65.86	6756.4	65.87	6756.41	65.92	6756.45	66.22	6756.54
66.62	6756.66	66.92	6756.76	67.24	6756.66	67.6	6756.85	67.92	6756.75
68.26	6756.61	68.58	6756.47	68.92	6756.32	69.28	6756.4	69.57	6756.46
69.92	6756.54	70.3	6756.62	70.55	6756.66	70.93	6756.74	71.32	6756.81
71.53	6756.79	71.93	6756.86	72.34	6756.9	72.51	6756.92	72.93	6756.95
73.05	6756.92	73.36	6756.82	73.49	6756.86	73.93	6756.72	74.39	6756.83
74.46	6756.84	74.93	6756.95	75.42	6757.05	75.43	6757.06	75.93	6757.16
76.4	6757.27	76.45	6757.23	76.93	6757.33	77.38	6757.41	77.48	6757.43
77.93	6757.51	78.35	6757.54	78.51	6757.59	78.93	6757.63	79.32	6757.66
79.54	6757.67	79.93	6757.7	80.29	6757.73	80.57	6757.77	80.93	6757.79
81.26	6757.83	81.6	6757.88	81.93	6757.91	82.24	6758	82.63	6758
82.93	6758.09	83.21	6758.21	83.66	6758.41	83.93	6758.52	84.18	6758.61
84.69	6758.5	84.93	6758.58	85.15	6758.41	85.73	6758.29	85.93	6758.13
86.13	6758.05	86.76	6758.1	86.93	6758.02	87.1	6758.03	87.79	6757.92
87.93	6757.93	88.07	6757.95	88.82	6758.07	88.93	6758.09	89.04	6758.1
89.85	6758.13	89.93	6758.14	90.01	6758.14	90.88	6758.18	90.99	6758.18
91.91	6758.22	91.96	6758.22	92.81	6758.25	92.93	6758.26	93.9	6758.34
93.93	6758.35	93.97	6758.35	94.87	6758.42	95	6758.42	95.85	6758.55
95.94	6758.56	96.03	6758.56	96.82	6758.69	96.94	6758.69	97.06	6758.71
97.79	6758.81	97.94	6758.84	98.09	6758.86	98.76	6758.95	98.94	6758.98
99.12	6758.98	99.74	6758.97	100.15	6758.97	100.71	6758.96	101.18	6758.96
101.68	6758.95	102.21	6758.95	102.65	6758.94	103.24	6758.94	103.62	6758.93
103.94	6758.93	104.27	6758.94	104.6	6758.96	104.94	6758.98	105.3	6758.99
105.57	6759	105.94	6759.02	106.33	6759.04	106.54	6759.05	106.94	6759.07
107.36	6759.08	107.51	6759.14	107.94	6759.16	108.39	6759.19	108.49	6759.18
108.94	6759.21	109.42	6759.23	109.46	6759.23	109.94	6759.24	110.43	6759.26
110.45	6759.26	110.94	6759.28	111.4	6759.28	111.48	6759.29	111.94	6759.3
112.37	6759.29	112.51	6759.28	112.94	6759.28	113.35	6759.25	113.55	6759.24
113.94	6759.21	114.32	6759.17	114.58	6759.15	114.94	6759.12	115.29	6759.09

115.61	6759.07	115.94	6759.04	116.26	6759.02	116.64	6759.04	116.94	6759.03
117.23	6759.03	117.67	6759.06	117.94	6759.05	118.21	6759.08	118.7	6759.11
118.94	6759.13	119.18	6759.15	119.73	6759.18	119.95	6759.19	120.15	6759.2
120.76	6759.23	120.95	6759.24	121.12	6759.25	121.79	6759.27	121.95	6759.29
122.1	6759.31	122.82	6759.34	122.95	6759.36	123.07	6759.38	123.85	6759.49
123.95	6759.5	124.04	6759.49	124.88	6759.39	124.95	6759.39	125.01	6759.38
125.91	6759.28	125.95	6759.28	125.98	6759.27	126.94	6759.16	126.96	6759.16
127.24	6759.13	127.93	6759.06	127.97	6759.06	128.9	6759.01	129	6759.01
129.87	6759.04	130.03	6759.04	130.08	6759.05	130.77	6759.12		

Manning's n Values		num=		4					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val		
0	.016	27.93	.025	40.87	.035	65.87	.045		

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	40.87	65.87		.3	.5

Downstream Deck/Roadway Coordinates									
num= 293									
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-25.06	6762.09		0		-24.77	6762.09		0	
-24.72	6762.09		0		-23.75	6762.13		0	
-22.76	6762.17		0		-22.75	6762.17		0	
-21.77	6762.17		0		-21.75	6762.17		0	
-20.79	6762.17		0		-20.75	6762.17		0	
-19.8	6762.16		0		-19.75	6762.16		0	
-18.82	6762.16		0		-18.75	6762.16		0	
-17.83	6762.16		0		-17.75	6762.15		0	
-16.85	6762.11		0		-16.75	6762.1		0	
-15.87	6762.06		0		-15.75	6762.05		0	
-14.88	6762.01		0		-14.75	6762		0	
-13.9	6761.96		0		-13.74	6761.95		0	
-12.91	6761.91		0		-12.74	6761.9		0	
-11.93	6761.89		0		-11.74	6761.88		0	
-10.94	6761.86		0		-10.74	6761.85		0	
-9.96	6761.83		0		-9.74	6761.82		0	
-8.97	6761.79		0		-8.74	6761.79		0	
-7.99	6761.76		0		-7.74	6761.76		0	
-7.01	6761.75		0		-6.74	6761.75		0	
-6.02	6761.75		0		-5.74	6761.74		0	
-5.04	6761.74		0		-4.74	6761.74		0	
-4.05	6761.73		0		-3.74	6761.73		0	
-3.07	6761.73		0		-2.74	6761.72		0	
-2.08	6761.68		0		-1.74	6761.66		0	
-1.1	6761.61		0		-.74	6761.59		0	
-.12	6761.55		0		.26	6761.52		0	
.87	6761.48		0		1.26	6761.45		0	
1.85	6761.44		0		2.26	6761.41		0	
2.84	6761.38		0		3.26	6761.37		0	
3.82	6761.36		0		4.26	6761.35		0	
4.81	6761.34		0		5.26	6761.33		0	
5.79	6761.32		0		6.26	6761.32		0	
6.78	6761.31		0		7.26	6761.3		0	
8.26	6761.24		0		8.74	6761.21		0	
9.26	6761.19		0		9.73	6761.16		0	
10.26	6761.13		0		10.71	6761.11		0	
11.26	6761.08		0		11.7	6761.05		0	
12.26	6761.02		0		12.68	6760.97		0	
13.26	6760.95		0		13.67	6760.93		0	
14.26	6760.91		0		14.65	6760.9		0	
15.26	6760.88		0		15.63	6760.87		0	
16.26	6760.85		0		16.62	6760.86		0	
17.26	6760.84		0		17.6	6760.82		0	
18.26	6760.79		0		18.59	6760.78		0	
19.26	6760.75		0		19.57	6760.73		0	
20.26	6760.7		0		20.56	6760.69		0	
21.26	6760.66		0		21.54	6760.65		0	
22.26	6760.61		0		22.52	6760.58		0	
23.26	6760.54		0		23.51	6760.52		0	
24.26	6760.48		0		24.49	6760.46		0	
25.26	6760.42		0		25.48	6760.41		0	
								26.05	6760.38

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.49	.59	6761.49	.76	6761.48	.92	6761.47	1.59	6761.44
1.76	6761.43	1.93	6761.42	2.59	6761.38	2.76	6761.37	2.93	6761.36
3.58	6761.32	3.76	6761.31	3.93	6761.28	4.58	6761.18	4.76	6761.15
4.93	6761.12	5.58	6761.01	5.76	6760.98	5.93	6760.95	6.58	6760.87
6.76	6760.84	6.94	6760.83	7.57	6760.81	7.76	6760.8	8.57	6760.8
8.76	6760.79	8.94	6760.76	9.57	6760.64	9.76	6760.6	9.94	6760.56
10.57	6760.45	10.76	6760.41	10.95	6760.38	11.57	6760.27	11.76	6760.23
11.95	6760.17	12.56	6760.07	12.76	6760.01	12.95	6759.92	13.56	6759.65
13.76	6759.56	13.95	6759.46	14.56	6759.17	14.76	6759.08	14.96	6758.98
15.56	6758.69	15.76	6758.6	15.96	6758.5	16.55	6758.22	16.76	6758.12
16.96	6758.02	17.55	6757.72	17.76	6757.63	17.96	6757.52	18.48	6757.26
18.55	6757.23	18.76	6757.13	18.97	6757.01	19.55	6756.69	19.59	6756.67
19.76	6756.57	19.96	6756.46	20.56	6756.13	20.76	6756.02	20.95	6755.91
21.57	6755.57	21.76	6755.47	21.94	6755.37	22.59	6754.96	22.76	6754.86
22.92	6754.76	23.6	6754.34	23.76	6754.24	23.91	6754.15	24.61	6753.54
24.76	6753.46	24.9	6753.41	25.63	6753.14	25.76	6753.1	25.89	6753.06
26.64	6752.81	26.75	6752.77	26.76	6752.77	26.87	6752.73	27.65	6752.47
27.76	6752.44	27.86	6752.4	28.67	6752.02	28.76	6751.99	28.85	6751.93
29.68	6751.55	29.76	6751.5	29.83	6751.51	30.69	6751.7	30.76	6751.91
30.82	6751.72	30.98	6751.76	31.71	6751.91	31.76	6751.92	31.81	6751.93

32.72	6752.12	32.76	6752.13	32.8	6752.14	32.99	6752.18	33.74	6752.33
33.76	6752.34	33.78	6752.34	34.76	6752.24	34.83	6752.27	35.74	6752.65
35.76	6752.66	35.78	6752.67	36.15	6752.82	36.72	6753.06	36.76	6753.09
36.8	6753.13	37.7	6753.91	37.76	6753.97	37.82	6754.02	38.67	6754.78
38.76	6754.86	38.85	6754.89	39.65	6755.2	39.76	6755.24	39.87	6755.29
40.63	6755.58	40.76	6755.63	40.9	6755.68	41.58	6755.93	41.6	6755.94
41.76	6756	41.92	6756.06	42.58	6756.3	42.76	6756.36	42.95	6756.41
43.48	6756.55	43.56	6756.57	43.75	6756.63	43.96	6756.64	44.51	6756.67
44.73	6756.68	44.97	6756.7	45.47	6756.73	45.71	6756.74	45.97	6756.76
46.43	6756.78	46.69	6756.8	46.98	6756.82	47.38	6756.84	47.67	6756.86
47.97	6756.88	48.34	6756.9	48.65	6756.92	48.98	6756.93	49.3	6756.93
49.63	6756.94	49.98	6756.95	50.26	6756.95	50.61	6756.96	50.99	6756.97
51.21	6756.97	51.59	6756.98	51.99	6756.99	52.17	6757	52.57	6757.01
53	6757.02	53.13	6757.02	53.55	6757.04	54	6756.97	54.08	6756.96
54.53	6756.9	55.01	6756.84	55.04	6756.86	55.51	6756.8	55.99	6756.81
56	6756.77	56.48	6756.79	56.94	6756.8	57.01	6756.8	57.46	6756.82
57.9	6756.95	58.01	6757.05	58.45	6757.18	58.86	6757.17	59.02	6757.16
59.43	6757.14	59.81	6757.13	60.02	6757.12	60.41	6757.1	60.77	6757.09
61.03	6757.08	61.39	6757.07	61.73	6757.05	62.03	6757.04	62.37	6757.03
62.68	6757.02	63.04	6757	63.35	6756.99	64.03	6756.99	64.33	6756.98
65.31	6756.98	65.55	6756.97	66.05	6756.97	66.29	6756.97	66.51	6756.96
67.47	6756.96	68.05	6756.95	68.25	6756.95	68.42	6756.93	69.06	6756.88
69.22	6756.87	69.38	6756.85	70.06	6756.79	70.2	6756.78	70.34	6756.77
71.07	6756.71	71.18	6756.7	71.3	6756.69	72.06	6756.63	72.16	6756.62
72.25	6756.61	73.07	6756.54	73.14	6756.54	73.21	6756.51	74.07	6756.23
74.12	6756.21	74.17	6756.2	75.08	6756.15	75.12	6756.15	75.98	6756.11

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	5.76	.038	41.58	.04

Bank Sta: Left Right Coeff Contr. Expan.

18.48	43.48		.3	.5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
58.45	75.98	6757.18	F

Upstream Embankment side slope = 3 horiz. to 1.0 vertical
 Downstream Embankment side slope = 3 horiz. to 1.0 vertical
 Maximum allowable submergence for weir flow = .98
 Elevation at which weir flow begins =
 Energy head used in spillway design =
 Spillway height used in design =
 Weir crest shape = Broad Crested

Number of Culverts = 1

Culvert Name	Shape	Rise	Span
Culvert #1	Circular	6	
FHWA Chart # 2 - Corrugated Metal Pipe Culvert			
FHWA Scale # 2 - Mitered to conform to slope			
Solution Criteria = Highest U.S. EG			
Culvert Upstrm Dist	Length	Top n	Bottom n
6.56	89.5	.024	.024
Depth Blocked	Entrance Loss Coef	Exit Loss	
0	.5	1	

Upstream Elevation = 6751.73
 Centerline Station = 59.13
 Downstream Elevation = 6751.15
 Centerline Station = 31.23

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 995.4

INPUT

Description:

Station	Elevation	Data	num=	230
Sta	Elev	Sta	Elev	Sta Elev
0	6761.49	.59	6761.49	.76 6761.48
				.92 6761.47
				1.59 6761.44

1.76	6761.43	1.93	6761.42	2.59	6761.38	2.76	6761.37	2.93	6761.36
3.58	6761.32	3.76	6761.31	3.93	6761.28	4.58	6761.18	4.76	6761.15
4.93	6761.12	5.58	6761.01	5.76	6760.98	5.93	6760.95	6.58	6760.87
6.76	6760.84	6.94	6760.83	7.57	6760.81	7.76	6760.8	8.57	6760.8
8.76	6760.79	8.94	6760.76	9.57	6760.64	9.76	6760.6	9.94	6760.56
10.57	6760.45	10.76	6760.41	10.95	6760.38	11.57	6760.27	11.76	6760.23
11.95	6760.17	12.56	6760.07	12.76	6760.01	12.95	6759.92	13.56	6759.65
13.76	6759.56	13.95	6759.46	14.56	6759.17	14.76	6759.08	14.96	6758.98
15.56	6758.69	15.76	6758.6	15.96	6758.5	16.55	6758.22	16.76	6758.12
16.96	6758.02	17.55	6757.72	17.76	6757.63	17.96	6757.52	18.48	6757.26
18.55	6757.23	18.76	6757.13	18.97	6757.01	19.55	6756.69	19.59	6756.67
19.76	6756.57	19.96	6756.46	20.56	6756.13	20.76	6756.02	20.95	6755.91
21.57	6755.57	21.76	6755.47	21.94	6755.37	22.59	6754.96	22.76	6754.86
22.92	6754.76	23.6	6754.34	23.76	6754.24	23.91	6754.15	24.61	6753.54
24.76	6753.46	24.9	6753.41	25.63	6753.14	25.76	6753.1	25.89	6753.06
26.64	6752.81	26.75	6752.77	26.76	6752.77	26.87	6752.73	27.65	6752.47
27.76	6752.44	27.86	6752.4	28.67	6752.02	28.76	6751.99	28.85	6751.93
29.68	6751.55	29.76	6751.5	29.83	6751.51	30.69	6751.7	30.76	6751.71
30.82	6751.12	30.98	6751.76	31.71	6751.91	31.76	6751.92	31.81	6751.93
32.72	6752.12	32.76	6752.13	32.8	6752.14	32.99	6752.18	33.74	6752.33
33.76	6752.34	33.78	6752.34	34.76	6752.24	34.83	6752.27	35.74	6752.65
35.76	6752.66	35.78	6752.67	36.15	6752.82	36.72	6753.06	36.76	6753.09
36.8	6753.13	37.7	6753.91	37.76	6753.97	37.82	6754.02	38.67	6754.78
38.76	6754.86	38.85	6754.89	39.65	6755.2	39.76	6755.24	39.87	6755.29
40.63	6755.58	40.76	6755.63	40.9	6755.68	41.58	6755.93	41.6	6755.94
41.76	6756	41.92	6756.06	42.58	6756.3	42.76	6756.36	42.95	6756.41
43.48	6756.55	43.56	6756.57	43.75	6756.63	43.96	6756.64	44.51	6756.67
44.73	6756.68	44.97	6756.7	45.47	6756.73	45.71	6756.74	45.97	6756.76
46.43	6756.78	46.69	6756.8	46.98	6756.82	47.38	6756.84	47.67	6756.86
47.97	6756.88	48.34	6756.9	48.65	6756.92	48.98	6756.93	49.3	6756.93
49.63	6756.94	49.98	6756.95	50.26	6756.95	50.61	6756.96	50.99	6756.97
51.21	6756.97	51.59	6756.98	51.99	6756.99	52.17	6757	52.57	6757.01
53	6757.02	53.13	6757.02	53.55	6757.04	54	6756.97	54.08	6756.96
54.53	6756.9	55.01	6756.84	55.04	6756.86	55.51	6756.8	55.99	6756.81
56	6756.77	56.48	6756.79	56.94	6756.8	57.01	6756.8	57.46	6756.82
57.9	6756.95	58.01	6757.05	58.45	6757.18	58.86	6757.17	59.02	6757.16
59.43	6757.14	59.81	6757.13	60.02	6757.12	60.41	6757.1	60.77	6757.09
61.03	6757.08	61.39	6757.07	61.73	6757.05	62.03	6757.04	62.37	6757.03
62.68	6757.02	63.04	6757	63.35	6756.99	64.03	6756.99	64.33	6756.98
65.31	6756.98	65.55	6756.97	66.05	6756.97	66.29	6756.97	66.51	6756.96
67.47	6756.96	68.05	6756.95	68.25	6756.95	68.42	6756.93	69.06	6756.88
69.22	6756.87	69.38	6756.85	70.06	6756.79	70.2	6756.78	70.34	6756.77
71.07	6756.71	71.18	6756.7	71.3	6756.69	72.06	6756.63	72.16	6756.62
72.25	6756.61	73.07	6756.54	73.14	6756.54	73.21	6756.51	74.07	6756.23
74.12	6756.21	74.17	6756.2	75.08	6756.15	75.12	6756.15	75.98	6756.11

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	5.76	.038	41.58	.04

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	18.48	43.48		197.72	197.72	197.72		.3	.5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
58.45	75.98	6757.18	F

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 995.2

INPUT

Description:

Station	Elevation	Data	num=	251					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.98	.21	6761.98	.27	6761.97	.38	6761.97	.49	6761.96
.67	6761.96	.77	6761.95	1.05	6761.95	1.13	6761.94	1.42	6761.94
1.52	6761.93	1.8	6761.93	1.89	6761.92	2.08	6761.92	2.17	6761.91
2.28	6761.91	2.36	6761.9	2.56	6761.9	2.65	6761.89	2.85	6761.89
2.93	6761.88	3.01	6761.88	3.14	6761.87	3.21	6761.87	3.28	6761.86

3.42	6761.85	3.56	6761.85	3.71	6761.84	3.78	6761.83	3.84	6761.83
4	6761.82	4.06	6761.81	4.12	6761.81	4.28	6761.8	4.34	6761.8
4.4	6761.78	4.57	6761.74	4.62	6761.72	4.68	6761.71	4.86	6761.67
4.91	6761.66	4.96	6761.64	5.14	6761.6	5.19	6761.59	5.24	6761.58
5.43	6761.53	5.47	6761.52	5.52	6761.51	5.71	6761.46	5.76	6761.45
5.8	6761.45	6	6761.46	6.91	6761.46	7.15	6761.45	7.19	6761.45
7.43	6761.43	7.47	6761.43	7.72	6761.36	7.73	6761.36	7.75	6761.35
8.01	6761.28	8.03	6761.28	8.29	6761.21	8.3	6761.21	8.31	6761.2
8.58	6761.13	8.59	6761.13	8.87	6761.03	8.87	6761.02	9.06	6760.95
9.15	6760.92	9.3	6760.87	9.43	6760.82	9.44	6760.81	9.71	6760.8
9.72	6760.8	9.98	6760.81	10	6760.81	10.01	6760.8	10.26	6760.68
10.28	6760.68	10.3	6760.67	10.54	6760.58	10.56	6760.57	10.58	6760.56
10.82	6760.47	10.85	6760.46	10.87	6760.45	11.1	6760.36	11.13	6760.35
11.16	6760.34	11.38	6760.26	11.41	6760.25	11.44	6760.21	11.66	6759.91
11.7	6759.84	11.73	6759.84	11.94	6759.6	11.98	6759.56	12.01	6759.52
12.09	6759.43	12.53	6759.3	12.68	6759.25	12.84	6759.2	13.5	6758.99
13.68	6758.94	13.87	6758.88	14.36	6758.72	14.47	6758.69	14.68	6758.62
14.9	6758.51	15.44	6758.35	15.68	6758.22	15.94	6758.08	16.41	6757.84
16.68	6757.69	16.97	6757.54	17.37	6757.33	17.68	6757.17	18	6757
18.34	6756.82	18.68	6756.64	19.04	6756.45	19.31	6756.31	19.68	6756.11
20.07	6755.89	20.28	6755.69	20.68	6755.47	21.1	6755.23	21.25	6755.15
21.68	6754.91	22.14	6754.65	22.22	6754.6	22.68	6754.35	23.17	6754.08
23.19	6754.06	23.68	6753.79	24.16	6753.52	24.2	6753.5	24.68	6753.23
25.13	6752.97	25.23	6752.87	25.68	6752.61	26.1	6752.47	26.27	6752.46
26.68	6752.33	26.86	6752.4	27.07	6752.5	27.3	6752.59	27.68	6752.76
28.04	6752.91	28.33	6753.04	28.68	6753.19	29.01	6753.32	29.37	6753.49
29.68	6753.62	29.98	6753.68	30.4	6753.93	30.68	6753.99	30.95	6754.11
31.43	6754.32	31.69	6754.43	31.92	6754.54	32.47	6754.78	32.69	6754.88
32.89	6754.99	33.5	6755.24	33.69	6755.34	33.86	6755.44	34.53	6755.71
34.69	6755.8	34.83	6755.83	35.57	6755.94	35.69	6755.96	35.8	6755.98
36.6	6756.1	36.63	6756.11	36.69	6756.12	36.7	6756.12	36.77	6756.13
37.61	6756.26	37.69	6756.28	37.76	6756.29	38.63	6756.42	38.69	6756.43
38.75	6756.44	39.36	6756.54	39.64	6756.58	39.69	6756.59	39.74	6756.6
40.65	6756.71	40.69	6756.72	40.73	6756.73	41.66	6756.85	41.71	6756.85
42.67	6756.98	42.7	6756.98	43.69	6757.11	43.94	6757.14	44.68	6757.24
44.7	6757.24	45.67	6757.31	45.71	6757.31	46.66	6757.38	46.69	6757.38
46.72	6757.39	47.65	6757.45	47.69	6757.46	47.73	6757.46	48.63	6757.53
48.75	6757.53	49.62	6757.6	49.76	6757.6	50.61	6757.65	50.69	6757.65
50.77	6757.66	51.6	6757.7	51.69	6757.71	51.78	6757.71	52.59	6757.75
52.69	6757.76	52.79	6757.77	53.58	6757.81	53.69	6757.81	53.81	6757.82
54.56	6757.86	54.69	6757.86	54.77	6757.87	54.82	6757.87	55.55	6757.89
55.69	6757.89	55.83	6757.9	56.54	6757.91	56.69	6757.92	56.84	6757.92
57.53	6757.94	57.69	6757.95	57.85	6757.95	58.52	6757.97	58.69	6757.97
58.87	6757.95	59.51	6758	59.69	6757.97	59.88	6757.96	60.49	6757.86
60.69	6757.85	60.89	6757.83	61.48	6757.75	61.69	6757.72	61.9	6757.7
61.96	6757.7								

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
0	.016	2.65	.038
		34.53	.04

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	20.28	34.53		127.75	127.76	127.75		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 995

INPUT

Description:

Station	Elevation	Data	num= 172
Sta	Elev	Sta	Elev
0	6761.36	.25	6761.36
1.34	6761.26	1.4	6761.25
3.36	6761.08	4.32	6760.79
5.34	6760.49	5.37	6760.48
7.3	6759.91	7.34	6759.89
8.4	6759.56	9.28	6759.04
10.34	6758.42	10.41	6758.38
		11.27	6757.88
		11.34	6757.84
		11.42	6757.8

12.26	6757.31	12.34	6757.26	12.43	6757.22	13.25	6756.73	13.34	6756.69
13.44	6756.65	14.25	6756.33	14.34	6756.29	14.44	6756.25	15.24	6755.94
15.34	6755.9	15.45	6755.85	16.23	6755.55	16.34	6755.5	16.46	6755.46
17.22	6755.15	17.34	6755.11	17.47	6755.06	18.22	6754.76	18.34	6754.71
18.47	6754.68	19.21	6754.47	19.34	6754.44	19.48	6754.4	20.2	6754.2
20.34	6754.16	20.49	6754.12	21.19	6753.92	21.34	6753.88	21.5	6753.84
22.19	6753.65	22.34	6753.61	22.5	6753.56	23.18	6753.37	23.34	6753.33
23.51	6753.3	24.17	6753.18	24.19	6753.18	24.34	6753.15	24.52	6753.11
25.16	6753	25.34	6752.96	25.53	6752.93	26.16	6752.82	26.34	6752.78
26.54	6752.75	27.15	6752.64	27.34	6752.6	27.54	6752.57	28.14	6752.45
28.34	6752.42	28.55	6752.42	29.13	6752.4	29.34	6752.39	29.56	6752.39
30.13	6752.37	30.34	6752.37	30.57	6752.36	31.12	6752.35	31.34	6752.34
31.57	6752.34	32.11	6752.32	32.34	6752.31	32.58	6752.3	33.1	6752.29
33.34	6752.27	33.59	6752.17	34.1	6751.94	34.34	6751.83	34.6	6751.73
35.09	6751.5	35.34	6751.4	35.6	6751.37	36.08	6751.26	36.34	6751.22
36.61	6751.25	36.69	6751.29	37.07	6751.45	37.34	6751.47	37.56	6751.63
37.61	6751.67	38.14	6752.02	38.35	6752.17	38.51	6752.22	39.29	6752.44
39.36	6752.46	39.41	6752.48	39.52	6752.51	39.88	6752.61	40.31	6752.73
40.36	6752.52	40.43	6752.77	41.21	6752.99	41.37	6753.03	41.57	6753.09
42.11	6753.24	42.38	6753.32	42.72	6753.41	43.01	6753.49	43.39	6753.6
43.86	6753.54	43.91	6753.61	44.39	6753.54	47.41	6753.54	47.51	6753.55
48.44	6753.55	49.19	6753.74	49.31	6753.77	49.43	6753.8	49.58	6753.84
50.21	6753.8	50.44	6753.86	50.72	6753.87	51.11	6753.88	51.44	6753.89
51.87	6753.9	52.01	6753.9	52.45	6753.91	52.91	6753.93	53.01	6753.93
53.46	6753.94	53.81	6753.97	54.15	6754.01	54.46	6754.04	54.71	6754.06
55.3	6754.12	55.47	6754.13	55.61	6754.15	56.44	6754.22	56.48	6754.23
56.51	6754.23	56.75	6754.22	57.41	6754.18	57.49	6754.17	57.59	6754.17
58.31	6754.12	58.32	6754.12						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.038	22.19	.038	43.39	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	22.19	43.39		0	0	.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 11692

INPUT

Description:

Station Elevation Data		num= 11									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
415.91	6805.87	637.68	6803.97	722.61	6803.9	823.63	6802.88	828.61	6800.93		
831.18	6799.93	840.84	6799.38	852.13	6799.92	861.68	6801.08	887.09	6804.16		
972.55	6817.55										

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
415.91	.06	823.63	.04	887.09	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.	
	823.63	887.09		420	411.17	390.88	.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 11280

INPUT

Description:

Station Elevation Data		num= 15									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
588.56	6797.39	663.2	6796.97	831.99	6795.47	981.56	6795.32	1038.02	6795.01		
1066.23	6795.16	1079.97	6791.73	1082.66	6791.66	1102.17	6791.13	1117.11	6791.82		
1128.62	6794.51	1129.73	6794.51	1214.64	6794.4	1305.56	6792.52	1344.92	6814.49		

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 588.56 .06 1038.02 .04 1129.73 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 1038.02 1129.73 570 566.57 485.84 .1 .3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 10714

INPUT

Description:

Station Elevation Data num= 18
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
 738.45 6794.9 950.91 6794.29 1092.13 6793.49 1278.77 6794.19 1332.27 6790.66
 1338.63 6789.24 1355.63 6788.82 1356.57 6789.41 1479.17 6789.86 1551.22 6786.44
 1552.61 6786.37 1569.89 6783.81 1578.77 6790.87 1578.92 6790.97 1585.52 6795.47
 1750.87 6800.09 1787.96 6811.06 1846.69 6816.47

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 738.45 .06 1278.77 .04 1585.52 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 1278.77 1585.52 505.72 625.08 497.71 .1 .3

Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 738.45 1278.77 6794.19 F
 1585.52 1846.69 6795.47 F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 9997

INPUT

Description:

Station Elevation Data num= 18
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
 0 6799.52 32.21 6790.56 66.38 6786.26 69.45 6784.56 73.65 6782.24
 83.3 6781.76 89.94 6782.33 102.35 6783.16 113.59 6783.92 247.13 6785.04
 254.88 6783.74 394.82 6785.39 397.59 6783.43 418.67 6782.76 432.39 6783.36
 436.95 6785.14 554.69 6784.03 576.99 6786.1

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 0 .06 69.45 .04 113.59 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 69.45 113.59 498.86 617.68 510 .1 .3

Ineffective Flow num= 1
 Sta L Sta R Elev Permanent
 467.68 576.99 6787 F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 9471

INPUT

Description:

Station Elevation Data num= 24
 Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
 165.84 6783.91 387.29 6783.83 518.81 6784.53 548.23 6782.94 724.7 6783.48
 846.56 6785.35 861 6782.7 1038.1 6783.83 1272.58 6784.3 1524.02 6782.97
 1585.99 6779.6 1698.12 6780.07 1701.86 6779.16 1737.4 6776.43 1742.23 6776.08

1750.39	6775.5	1760.21	6776.59	1765.17	6777.23	1766.48	6783.35	1787.38	6794.58
1787.4	6794.58	1787.41	6794.58	1795.02	6794.54	1820.51	6794.41		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
165.84	.06	1698.12	.04	1766.48	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1698.12	1766.48		313.68 444.1	280.09		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 9027

INPUT

Description:

Station Elevation Data		num=		23	
Sta	Elev	Sta	Elev	Sta	Elev
-50	6780	0	6775.83	173.67	6775.69
834.13	6775.44	918.02	6776.32	1115.95	6776.78
1432.2	6776.9	1497.74	6778.09	1538.77	6777.46
1643.98	6773.7	1665.36	6773.74	1688.26	6773.9
1807.12	6778.08	1813.63	6782.15	1845.09	6798.51

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1615.06	.04	1709.98	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1615.06	1709.98		285.55 293.44	280.09		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	1615.06	6778.28	F
1709.98	1845.09	6776.8	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 8734

INPUT

Description:

Station Elevation Data		num=		22	
Sta	Elev	Sta	Elev	Sta	Elev
-50	6778.2	0	6771.38	50.46	6772.1
853.9	6774.73	977.79	6775.52	1363.04	6775.91
1528.1	6772.39	1529.32	6772.35	1543.98	6771.83
1594.06	6773.63	1685.1	6775.06	1709.11	6773.53
1800.11	6779.29	1840.34	6793.84		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1518.36	.04	1724.31	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1518.36	1724.31		275 331.69	275		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	1375	6780	F
1724.31	1840.34	6776.46	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 8402

INPUT

Description:

Station Elevation Data									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6776.65	-4.06	6772.88	4.85	6772.88	42.29	6773.17	192.67	6774.12
233.69	6774.12	367.84	6773.22	523.08	6774.01	579.47	6774.32	780.41	6774.66
844.65	6774.98	894.23	6775.1	1046.88	6775.02	1248.16	6775.42	1303.2	6775.42
1351.59	6775.57	1390.85	6775.92	1402.4	6773.23	1403.84	6773.1	1404.19	6773.06
1404.46	6773.04	1421.22	6772.45	1436.61	6772.92	1436.89	6772.94	1443.95	6773.24
1448.26	6773.52	1459.86	6773.87	1477.13	6774.08	1530.11	6774.72	1548.64	6774
1551.25	6774.17	1556.36	6774.9	1560.36	6776.06	1698.15	6779.02	1744.88	6778.47
1795.32	6781.23	1805.06	6784.42	1842.8	6790.67				

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1390.85	.04	1560.36	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1390.85	1560.36		275	331.69		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	1060	6780	F
1560.365	1842.86	6776.065	F

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 8070

INPUT

Description:

Station Elevation Data									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6775.1	0	6774.25	171.2	6774.21	330.86	6771.88	523.77	6774.03
765.48	6774.78	949.81	6774.35	1183.45	6775.1	1263.35	6775.88	1278.77	6773.79
1279.08	6773.75	1298.46	6773.07	1314.46	6773.74	1317.5	6774.07	1337.82	6774.18
1393.6	6774.49	1396.42	6775.67	1615.39	6779.47	1769.81	6775.67	1785.29	6780.6
1845.27	6787.5								

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1263.35	.04	1396.42	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1263.35	1396.42		335	493.05		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	745	6780	F
1396.42	1845.27	6775.67	F

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 7577

INPUT

Description:

Station Elevation Data									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6772.2	0	6767.31	455.55	6768.05	615.43	6767.45	649.69	6764.46
656.34	6763.68	660.91	6764.89	672.06	6765.83	741.01	6766.88	948.06	6768.26
956.75	6766.72	1419.51	6770.5	1485.64	6767.88	1505.99	6766.43	1509.48	6766.18
1519.66	6765.79	1530.42	6766.3	1530.49	6766.31	1561.09	6769.97	1704.49	6771.02
1872.69	6772.44	1884.84	6778.16						

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1419.51	.04	1561.09	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.

1419.51	1561.09		132.77	132.77	132.77	.1	.3
Ineffective Flow	num=	2					
Sta L	Sta R	Elev	Permanent				
-50	430	6775	F				
1561.09	1884.84	6769.97	F				

CROSS SECTION

RIVER: Walton Creek
REACH: lower-DE RS: 7176.41

INPUT

Description:

Station	Elevation	Data	num=	492						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
-50	6771.28	-49.25	6771.26	-47.83	6771.25	-44.25	6771.28	-39.25	6771.21	
-37.81	6771.18	-34.25	6771.05	-29.25	6770.12	-27.78	6769.88	-24.25	6769.18	
-22.77	6769.02	-19.25	6768.7	-14.25	6767.87	-12.74	6767.89	-9.25	6767.61	
-5.78	6766.56	-4.25	6766.07	-2.72	6766.38	.75	6767.16	2.29	6766.93	
5.75	6766.72	7.31	6766.73	10.75	6766.72	12.32	6766.75	15.75	6766.76	
17.33	6766.73	22.34	6766.71	25.75	6766.57	27.35	6766.56	30.75	6766.66	
32.37	6766.67	35.75	6766.72	39.11	6766.7	40.75	6766.73	45.75	6766.88	
52.42	6766.97	55.75	6767.07	57.43	6767.07	60.75	6767.04	62.44	6767.09	
65.75	6767.25	67.45	6767.34	70.75	6767.47	72.47	6767.42	75.75	6767.27	
77.48	6767.23	80.75	6767.26	84	6767.26	85.75	6767.25	87.5	6767.21	
90.75	6766.99	92.52	6767.01	97.53	6766.98	100.75	6766.99	102.54	6766.98	
105.75	6767.01	107.55	6766.96	110.75	6766.9	112.57	6766.8	115.75	6766.44	
117.58	6766.44	120.75	6766.54	122.59	6766.53	125.75	6766.42	128.89	6766.34	
132.62	6766.21	135.75	6766.32	137.63	6766.32	140.75	6766.37	142.64	6766.46	
145.75	6766.48	147.65	6766.6	150.75	6766.63	152.67	6766.56	155.75	6766.46	
157.68	6766.43	160.75	6766.49	162.69	6766.32	165.75	6766.13	167.7	6766.2	
170.75	6766.26	173.78	6766.42	175.75	6766.54	177.73	6766.61	180.75	6766.69	
182.74	6766.63	185.75	6766.63	187.75	6766.61	190.75	6766.51	192.77	6766.55	
195.75	6766.58	197.78	6766.62	202.79	6766.67	205.75	6766.75	207.8	6766.79	
210.75	6766.76	212.82	6766.78	215.75	6766.85	218.67	6767.42	220.75	6767.67	
222.84	6768.32	225.75	6768.96	227.85	6769.2	230.75	6769.67	232.86	6770.11	
235.75	6770.61	237.88	6770.99	240.75	6771.41	242.89	6771.61	245.75	6771.96	
247.9	6772.27	250.75	6772.58	252.91	6772.84	255.75	6773.03	257.93	6773.21	
260.75	6773.36	263.56	6773.47	265.75	6773.46	270.75	6773.71	272.98	6773.93	
275.75	6774.15	280.75	6774.59	283.04	6774.84	285.75	6775.1	288.05	6775.06	
290.75	6774.91	293.06	6774.64	295.75	6774.25	300.75	6773.78	303.09	6773.65	
305.75	6773.46	308.4	6773.19	310.75	6773	313.12	6772.79	315.75	6772.58	
318.13	6772.47	320.75	6772.37	323.14	6772.3	325.75	6772.19	330.75	6771.86	
333.17	6771.64	335.75	6771.42	338.18	6771.11	340.75	6770.9	343.19	6770.76	
345.75	6770.67	348.21	6770.61	350.75	6770.58	353.28	6770.56	355.75	6770.5	
358.23	6770.59	360.75	6770.71	363.24	6770.94	365.75	6771.22	368.26	6771.6	
370.75	6771.92	375.75	6772.53	378.28	6772.76	380.75	6772.96	383.29	6773.4	
385.75	6773.77	388.31	6774.19	390.75	6774.66	393.32	6775.06	395.75	6775.39	
398.17	6775.62	400.75	6775.93	405.75	6776.07	408.36	6776.04	410.75	6776	
413.37	6775.92	415.75	6775.87	418.38	6775.73	423.4	6775.24	425.75	6775.02	
428.41	6774.78	430.75	6774.45	433.43	6774.2	435.75	6773.88	440.75	6772.67	
443.04	6772.2	445.75	6771.59	448.47	6770.8	450.75	6770.53	453.49	6770.08	
455.75	6769.76	458.5	6769.36	460.75	6769.05	463.52	6769.1	465.75	6768.89	
468.53	6768.68	470.75	6768.41	473.55	6768.39	475.75	6768.1	480.75	6767.78	
485.75	6767.61	487.91	6767.63	490.75	6767.43	493.61	6767.17	495.75	6767.11	
498.63	6766.92	500.75	6766.87	503.64	6767.1	505.75	6767.33	508.66	6767.08	
510.75	6767.01	513.67	6766.56	515.75	6766.23	518.69	6765.98	520.75	6766.02	
523.7	6765.83	525.75	6765.66	528.72	6765.62	530.75	6765.52	532.77	6765.56	
535.75	6765.5	538.75	6766.1	540.75	6766.54	543.76	6766.75	545.75	6766.75	
548.78	6766.56	550.75	6766.62	553.79	6766.87	555.75	6766.98	558.81	6766.96	
560.75	6766.84	563.82	6767.03	565.75	6767.1	568.84	6767.28	570.75	6767.42	
573.85	6767.67	575.75	6767.88	577.64	6767.91	580.75	6767.9	583.88	6767.99	
585.75	6767.93	588.9	6767.97	590.75	6768.05	593.91	6768.15	595.75	6768.19	
598.93	6768.16	600.75	6768.18	603.9	6768.19	605.75	6768.12	608.93	6768.13	
610.81	6768.18	613.98	6768.37	615.75	6768.44	618.99	6768.36	620.75	6768.36	
622.51	6768.29	625.75	6768.13	629.02	6768.1	630.75	6768.07	634.03	6768.11	
635.75	6768.16	639.04	6768.1	640.75	6768.12	644.06	6768.18	645.75	6768.14	
649.07	6768.12	650.75	6768.07	654.08	6767.99	655.75	6767.99	659.1	6767.96	
664.11	6768.08	665.75	6768.07	669.13	6767.98	672.37	6768.03	675.75	6768.15	
679.15	6768.17	684.17	6768.23	685.75	6768.16	689.18	6768.17	690.75	6768.21	

694.19	6768.21	695.75	6768.24	699.21	6768.22	704.22	6768.41	705.75	6768.36
709.23	6768.32	710.75	6768.31	714.25	6768.24	715.75	6768.15	717.25	6768.22
720.75	6768.27	724.28	6768.36	725.75	6768.41	730.75	6768.37	734.3	6768.33
735.75	6768.32	739.32	6768.27	740.75	6768.24	745.75	6768.39	750.75	6768.5
754.36	6768.51	755.75	6768.53	759.37	6768.42	760.75	6768.37	765.75	6768.59
769.4	6768.62	770.75	6768.64	775.75	6768.5	779.43	6768.49	780.75	6768.52
784.44	6768.57	785.75	6768.62	789.45	6768.56	790.75	6768.5	794.47	6768.52
795.75	6768.55	799.48	6768.58	800.75	6768.57	804.49	6768.51	805.75	6768.46
809.51	6768.34	810.75	6768.29	814.52	6768.11	815.75	6768.11	819.53	6768.24
824.55	6768.25	825.75	6768.26	829.56	6767.97	830.75	6767.99	834.58	6767.71
835.75	6767.7	839.59	6767.14	840.75	6766.95	844.6	6766.57	845.75	6766.54
849.62	6765.72	850.75	6765.37	854.63	6765.47	855.75	6765.39	859.64	6765.49
860.75	6765.47	864.66	6765.38	865.75	6765.37	869.67	6765.26	870.75	6765.2
874.68	6765.03	875.75	6765.03	879.7	6765.08	880.75	6765.11	884.71	6765.34
885.75	6765.37	889.72	6765.43	890.75	6765.44	896.76	6765.36	900.75	6765.26
905.75	6765.37	909.78	6765.31	910.75	6765.33	915.75	6765.5	919.83	6765.21
920.69	6765.11	920.75	6765.1	924.85	6765.4	925.75	6765.38	927.51	6765.46
929.87	6765.58	930.75	6765.59	934.87	6766	935.75	6766.06	939.87	6766.37
941.57	6766.42	944.88	6766.53	945.75	6766.49	949.89	6766.47	950.75	6766.51
954.9	6766.21	955.75	6766.23	959.92	6766.29	960.75	6766.31	965.75	6766.62
969.94	6766.83	970.75	6766.83	974.96	6766.43	975.75	6766.37	979.97	6766.71
980.75	6766.74	981.53	6766.72	985.75	6766.56	990	6766.59	990.75	6766.56
995.01	6766.42	995.75	6766.42	1000.03	6766.32	1000.75	6766.33	1005.04	6766.56
1005.75	6766.54	1010.05	6766.14	1010.75	6766.14	1015.07	6765.84	1015.75	6765.85
1020.08	6765.55	1020.75	6765.59	1025.75	6765.38	1030.11	6765.27	1035.12	6765.29
1035.75	6765.27	1040.14	6765.23	1040.75	6765.21	1045.75	6765.24	1050.17	6765.2
1050.75	6765.2	1055.18	6764.99	1055.75	6764.97	1060.19	6765	1060.75	6764.99
1065.21	6764.98	1065.75	6764.99	1070.22	6765.21	1070.75	6765.26	1075.23	6765.3
1076.27	6765.28	1080.75	6765.18	1085.26	6765.14	1085.75	6765.13	1090.28	6765.08
1100.3	6765.06	1100.75	6765.1	1105.32	6765.25	1105.75	6765.28	1110.33	6765.53
1110.75	6765.56	1115.34	6765.81	1115.75	6765.84	1120.36	6766.23	1120.75	6766.24
1125.37	6767.03	1125.75	6767.07	1130.39	6767.24	1135.75	6767.43	1140.75	6767.41
1145.43	6767.8	1150.75	6768.17	1155.45	6768.55	1155.75	6768.59	1160.47	6769.04
1161.04	6769.05	1165.75	6769.23	1170.5	6769.12	1170.75	6769.1	1175.51	6769.18
1175.75	6769.17	1180.52	6769.36	1180.75	6769.36	1185.75	6769.05	1190.55	6768.64
1190.75	6768.64	1195.56	6768.78	1195.75	6768.78	1200.75	6769.13	1205.75	6769.08
1210.61	6768.99	1215.62	6768.68	1215.75	6768.68	1220.63	6768.89	1220.69	6768.89
1225.65	6769.14	1225.75	6769.15	1230.66	6769.28	1230.75	6769.29	1235.75	6769.5
1240.69	6769.09	1240.75	6769.08	1245.7	6769.45	1250.75	6769.34	1255.73	6769.47
1260.75	6769.49	1265.75	6769.39	1270.75	6769.28	1275.75	6769.19	1280.75	6769.14
1280.8	6769.13	1285.75	6768.96	1290.83	6768.88	1295.75	6768.59	1300.85	6768.76
1305.75	6769.05	1310.75	6769.4	1311.75	6769.4	1311.75	6769.09	1318.66	6769.76
1418.49	6770.25	1509.04	6770.83	1553.8	6771.14	1572.11	6773.17	1728.53	6774.98
1732.35	6775	1748.48	6778.83						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	835.75	.04	1135.75	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	835.75	1135.75		163.08	163.08		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	406.04	6776.07	F
1165.73	1748.48	6771.14	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 6775.68

INPUT

Description:

Station	Elevation	Data	num=	496					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6770.42	1.28	6770.42	6	6770.18	7.28	6770.11	10.92	6770.2
12.28	6770.21	17.28	6769.98	20.77	6769.91	22.28	6769.89	25.69	6769.67
27.28	6769.48	30.61	6768.83	32.28	6768.63	37.28	6767.24	40.45	6766.43
42.28	6765.98	44.17	6765.37	47.28	6764.55	50.3	6764.99	52.28	6765.42
55.22	6765.49	57.28	6765.53	60.14	6765.67	62.28	6765.76	65.06	6765.69

67.28	6765.57	69.98	6765.54	72.28	6765.43	74.9	6765.27	77.29	6765.16
79.83	6765.12	82.29	6765.14	84.75	6765.21	87.29	6765.34	89.91	6765.32
92.29	6765.24	94.59	6765.26	97.29	6765.19	99.51	6765.08	102.29	6764.98
104.43	6764.92	107.29	6764.9	112.29	6764.7	114.28	6764.72	117.29	6764.77
119.2	6764.79	122.29	6764.66	124.12	6764.78	127.29	6764.96	132.29	6764.98
135.65	6765.03	137.29	6764.99	138.89	6765.04	142.29	6764.97	143.81	6765
147.29	6765.2	148.73	6765.2	152.3	6765.24	153.65	6765.17	157.3	6764.88
158.57	6764.79	163.49	6764.82	167.3	6764.91	168.42	6765	172.3	6765.14
173.34	6765.2	177.3	6765.18	181.39	6764.93	183.18	6764.94	187.3	6765.14
188.1	6765.15	193.02	6765.13	197.3	6765.01	202.3	6764.86	202.87	6764.86
207.3	6764.98	207.79	6765	212.3	6765.44	217.3	6765.47	217.63	6765.46
227.13	6765.58	232.4	6765.56	237.31	6765.28	242.31	6765.23	247.31	6765.55
252.31	6765.7	257.01	6765.76	257.31	6765.77	261.93	6766.06	262.31	6766.09
266.85	6766.2	267.79	6766.17	272.31	6766.15	276.69	6766.56	277.31	6766.59
281.61	6766.72	282.31	6766.75	286.54	6766.68	287.31	6766.7	291.46	6766.61
292.31	6766.54	296.38	6766.55	297.31	6766.66	301.3	6766.96	302.31	6766.99
306.22	6767.06	307.32	6767.03	311.14	6767.06	313.53	6766.96	317.32	6766.47
320.99	6766.26	322.32	6766.05	325.91	6766.34	327.32	6766.32	330.83	6766.4
332.32	6766.41	335.75	6765.14	337.32	6764.61	340.67	6764.22	342.32	6764.11
345.6	6763.84	347.32	6763.87	350.52	6763.89	352.32	6763.92	355.44	6764.16
357.32	6764.23	359.27	6764.22	362.32	6763.97	365.28	6764.11	367.32	6764.01
370.2	6764.13	372.32	6764.29	375.13	6764.22	377.32	6764.21	380.05	6764.21
382.32	6764.18	384.97	6764.09	387.33	6764.05	389.89	6764.08	392.33	6764.16
394.81	6764.22	397.33	6764.14	399.73	6764.19	402.33	6764.23	405.01	6764.16
407.33	6764.07	409.58	6763.94	412.33	6763.76	414.5	6763.88	419.42	6764.07
422.33	6764.27	429.26	6764.17	432.33	6764.09	434.19	6764.06	437.33	6764.11
439.11	6764.13	442.33	6764.05	444.03	6764	447.33	6763.93	450.75	6763.95
452.33	6763.94	453.87	6764.06	457.33	6764.38	458.79	6764.37	462.34	6764.49
463.72	6764.57	467.34	6764.41	468.64	6764.42	472.34	6764.53	473.56	6764.51
477.34	6764.83	478.48	6764.91	482.34	6764.87	483.4	6764.87	488.32	6764.68
492.34	6764.61	496.49	6764.9	497.34	6764.91	498.17	6764.96	502.34	6764.93
507.34	6765.04	508.01	6765.1	512.34	6765.29	512.93	6765.38	517.34	6766.26
517.85	6766.29	522.34	6766.88	522.78	6766.87	527.34	6766.87	527.7	6766.85
532.34	6766.3	537.34	6766.18	542.23	6766.25	542.46	6766.27	547.35	6766.57
552.31	6766.85	557.23	6766.96	557.35	6766.97	562.15	6767.12	562.35	6767.12
567.07	6766.83	567.35	6766.84	571.99	6766.09	572.35	6766.06	576.91	6765.59
577.35	6765.51	581.84	6764.85	582.88	6764.78	587.35	6765.57	591.68	6765.51
592.35	6765.49	596.6	6764.85	601.52	6764.6	602.35	6764.58	606.44	6764.79
607.35	6764.88	611.37	6765.01	612.35	6764.96	616.29	6764.98	617.36	6765.01
621.21	6764.85	622.36	6764.84	626.13	6765.36	627.36	6765.51	628.62	6765.83
632.36	6766.17	635.97	6767.31	637.36	6767.47	640.9	6767.74	642.36	6767.73
645.82	6767.53	647.36	6767.47	650.74	6767.26	652.36	6767.19	655.66	6766.93
657.36	6766.87	660.58	6766.78	662.36	6766.84	665.5	6767.02	670.43	6767.23
672.36	6767.24	674.36	6767.27	677.36	6767.29	680.27	6767.39	682.36	6767.32
685.19	6767.17	687.36	6767.03	690.11	6766.95	692.36	6766.87	695.03	6766.8
697.37	6766.85	699.96	6766.79	702.37	6766.75	704.88	6766.93	707.37	6766.92
709.8	6766.76	712.37	6766.76	714.72	6766.73	717.37	6766.63	719.64	6766.47
722.37	6766.5	727.37	6766.41	729.49	6766.39	734.41	6766.28	737.37	6765.99
739.33	6766.03	742.37	6765.84	744.25	6765.41	747.37	6764.91	749.17	6764.87
752.37	6765.07	754.09	6765.13	757.37	6765.19	759.02	6765.32	762.37	6765.66
765.84	6765.48	767.37	6765.46	770.92	6765.44	772.38	6765.42	773.78	6765.69
777.38	6766.41	778.7	6766.5	782.38	6766.82	783.62	6766.88	788.55	6766.99
792.38	6767.15	793.47	6767.24	797.38	6767.71	798.39	6767.87	802.38	6768.28
803.31	6768.17	807.38	6768.05	808.23	6767.95	812.38	6767.12	816.66	6766.82
817.38	6766.78	818.07	6766.71	822.38	6766.5	827.38	6765.42	827.92	6765.44
832.38	6765.16	833.69	6765.16	837.38	6765.16	837.76	6765.17	842.68	6765.17
847.6	6765.16	852.39	6765.56	857.39	6766.18	857.45	6766.18	858.69	6766.28
862.37	6766.59	867.29	6766.58	867.39	6766.59	872.39	6767.49	877.13	6766.57
877.39	6766.51	882.06	6765.73	882.39	6765.7	886.98	6765.94	887.39	6765.92
891.9	6766.52	892.39	6766.54	896.82	6766.59	897.39	6766.65	901.74	6766.92
902.39	6766.99	906.66	6767.02	911.59	6766.9	912.39	6766.95	916.51	6766.73
917.39	6766.64	921.43	6766.78	922.39	6766.78	926.35	6767.18	927.4	6767.28
931.27	6767.25	932.4	6767.28	936.19	6767.25	937.4	6767.25	941.12	6767.28
942.4	6767.25	947.4	6767.36	948.8	6767.4	952.4	6767.26	957.4	6767.2
960.8	6767	962.4	6766.84	965.72	6767.12	967.4	6767.23	970.65	6767.3
972.4	6767.37	975.57	6767.12	977.4	6766.95	980.49	6766.86	982.4	6766.79
985.41	6766.91	987.4	6767.07	990.33	6767.2	992.4	6767.19	995.25	6766.97
997.4	6766.86	1000.18	6766.92	1002.4	6766.92	1005.1	6766.91	1007.41	6766.94
1010.02	6767.04	1012.41	6767.06	1017.41	6766.91	1019.86	6766.71	1022.41	6766.52
1024.78	6766.5	1027.41	6766.5	1029.71	6766.9	1032.41	6767.26	1035.2	6767.22
1037.41	6767.06	1039.55	6767.16	1042.41	6767.07	1044.47	6767.12	1047.41	6767.49

1049.39	6767.46	1052.41	6767.32	1054.31	6767.36	1057.41	6767.34	1059.24	6767.4
1062.41	6767.58	1064.16	6767.62	1067.41	6767.57	1072.41	6767.45	1074	6767.35
1077.41	6767.28	1078.92	6767.27	1082.41	6767.41	1083.84	6767.49	1087.42	6767.42
1088.77	6767.52	1092.42	6767.64	1093.69	6767.86	1097.42	6768.46	1098.61	6768.45
1102.42	6768.77	1103.53	6768.78	1108.45	6768.7	1112.42	6768.79	1113.37	6768.79
1117.42	6768.58	1122.42	6768.53	1123.22	6768.57	1127.42	6768.84	1133.06	6768.87
1137.98	6768.67	1142.42	6768.36	1147.42	6768.51	1147.83	6768.51	1152.42	6768.64
1152.75	6768.66	1157.42	6769.21	1157.67	6769.26	1162.43	6770.33	1167.43	6771.95
1167.51	6771.97	1172.43	6773.76	1172.95	6773.94	1177.36	6775.4	1182.28	6775.81
1187.2	6776.33	1187.43	6776.34	1192.43	6776.36	1197.04	6776.56	1197.43	6776.55
1201.96	6776.29	1206.89	6776.32	1207.43	6776.31	1211.81	6776.05	1213.08	6775.99
1217.43	6775.81	1221.65	6775.52	1222.43	6775.48	1226.57	6775.13	1227.43	6775.15
1231.49	6775.35	1232.43	6775.34	1237.43	6775.4	1241.34	6775.42	1242.44	6775.41
1247.44	6775.54	1251.18	6775.67	1252.44	6775.61	1257.44	6775.67	1261.02	6775.79
1262.44	6775.82	1265.95	6775.85	1267.44	6775.95	1270.87	6776.04	1272.44	6775.99
1275.79	6776.4	1277.44	6776.29	1280.71	6775.69	1282.44	6775.36	1285.63	6776.04
1287.44	6776.28	1290.55	6776.24	1292.44	6776.44	1295.48	6776.19	1297.44	6775.98
1300.4	6775.74	1302.44	6775.34	1305.32	6775.09	1307.44	6774.31	1309.64	6773.2
1312.44	6772.15	1315.16	6770.36	1317.45	6769.22	1320.08	6767.86	1322.45	6767.7
1325.01	6767.22	1327.22	6767.13	1329.93	6766.99	1332.45	6766.91	1334.85	6766.91
1337.45	6766.94	1339.77	6766.83	1342.45	6766.73	1344.69	6766.8	1347.45	6766.82
1349.61	6766.8	1354.54	6766.89	1357.45	6766.84	1359.46	6766.84	1364.38	6766.92
1367.45	6766.95	1419.83	6770.98	1442.67	6774.91	1637.78	6777.54	1642.55	6777.55
1662.67	6779.49								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	818.07	.04	862.37	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	818.07	862.37		132.85	132.85	132.85		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	802.26	6768.28	F
1103.4	1662.67	6770	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 6375

INPUT

Description:

Station	Elevation	Data	num=	494						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	6766.21	.32	6766.21	.32	6769.33	1.32	6769.31	4.73	6769.22	
6.33	6769.15	9.57	6769.12	11.33	6769.08	14.41	6768.96	19.25	6768.74	
21.34	6768.66	24.09	6768.5	26.34	6768.3	28.93	6767.32	31.34	6766.53	
33.77	6765.93	36.34	6765.36	39.1	6764.59	41.35	6764.08	43.45	6764.12	
46.35	6764.2	48.29	6764.52	51.35	6764.72	53.13	6764.8	56.36	6765.21	
57.97	6765.22	61.36	6764.76	62.81	6764.44	66.36	6764.14	67.65	6764.08	
71.36	6763.94	72.49	6763.92	76.37	6763.95	81.37	6763.74	85.69	6763.82	
86.37	6763.84	87.01	6763.83	91.85	6763.84	96.38	6763.97	96.69	6763.97	
101.38	6764.2	101.53	6764.22	106.38	6764.51	111.21	6765.01	116.39	6765.33	
121.39	6765.66	126.39	6765.66	131.4	6765.59	135.41	6765.53	136.4	6765.55	
140.25	6765.6	141.4	6765.56	146.41	6765.55	149.93	6765.46	151.41	6765.41	
156.41	6765.35	159.61	6765.37	161.41	6765.37	164.45	6765.36	166.42	6765.32	
169.29	6765.31	173.7	6765.41	176.42	6765.44	178.97	6765.54	181.43	6765.54	
183.81	6765.6	186.43	6765.61	188.65	6765.56	191.43	6765.51	193.49	6765.54	
196.43	6765.51	198.33	6765.53	201.44	6765.65	203.17	6765.62	206.44	6765.63	
208.01	6765.54	211.44	6765.46	212.84	6765.47	216.45	6765.65	220.3	6765.42	
226.45	6765.39	227.36	6765.38	231.45	6765.41	232.2	6765.42	236.46	6765.36	
237.04	6765.34	241.46	6765.23	241.88	6765.23	246.46	6765.39	246.72	6765.42	
251.56	6765.49	256.47	6765.32	258.41	6765.24	261.72	6765.09	266.47	6765.15	
270.92	6763.67	271.48	6763.54	275.76	6762.98	276.48	6762.84	280.6	6762.48	
281.48	6762.45	284.93	6762.5	285.44	6762.51	286.49	6762.4	290.28	6762.33	
291.49	6762.36	296.49	6762.24	299.96	6762.67	301.49	6762.65	304.8	6762.63	
306.5	6762.85	308.31	6762.97	311.5	6763.5	314.48	6763.63	316.5	6763.95	
319.32	6763.89	321.51	6763.76	324.16	6763.94	326.51	6763.95	329	6763.97	
331.51	6764.11	333.84	6764.17	336.51	6764.34	338.68	6764.76	341.52	6765.34	

343.52	6765.29	346.52	6764.75	348.36	6764.58	351.52	6764.57	354.91	6764.74
356.53	6764.95	358.04	6764.77	361.53	6764.57	362.88	6764.44	366.53	6764.28
367.72	6764.36	371.53	6764.68	372.56	6764.64	376.54	6764.24	377.4	6764.22
381.54	6764.21	382.24	6764.27	386.54	6764.49	387.08	6764.41	391.55	6764.08
396.55	6764.21	401.6	6764.69	406.44	6764.87	406.55	6764.89	411.28	6765.44
411.56	6765.45	416.12	6765.17	416.56	6765.17	420.96	6765.12	421.56	6765.12
425.8	6765.05	426.57	6765.07	430.64	6764.9	431.57	6764.92	435.48	6765.31
436.57	6765.24	440.32	6764.7	441.57	6764.58	442.92	6764.63	446.58	6764.39
450	6764.16	451.58	6763.99	454.84	6763.97	456.58	6763.84	459.68	6764.27
461.58	6764.42	464.52	6764.13	466.59	6764.15	469.36	6764.41	471.59	6764.21
474.2	6764.02	476.59	6764.3	479.03	6764.18	481.6	6764.26	483.87	6764.41
486.6	6764.27	489.51	6764.02	491.6	6763.78	493.55	6764.02	496.6	6764.74
498.39	6764.9	501.61	6764.75	503.23	6764.94	506.61	6765.59	508.07	6765.83
511.61	6766.17	512.91	6766.21	516.62	6766.4	517.75	6766.41	521.62	6766.3
522.59	6766.28	526.62	6766.24	527.43	6766.21	531.62	6766.09	536.11	6766.15
541.63	6766.3	546.63	6766.26	551.52	6765.98	551.63	6765.97	556.47	6766.33
556.64	6766.31	561.31	6766.85	561.64	6766.95	566.15	6766.7	566.64	6766.65
570.99	6766.39	571.65	6766.34	575.83	6766.58	576.65	6766.49	577.53	6766.56
581.65	6766.76	585.51	6766.51	586.66	6766.4	591.66	6765.9	595.19	6765.99
596.66	6765.98	600.03	6765.78	601.66	6765.9	604.87	6765.45	606.67	6765.44
609.71	6766.41	611.67	6766.64	614.55	6766.35	616.67	6766.4	619.39	6766.44
621.68	6766.11	626.68	6765.9	631.68	6766.43	633.91	6766.47	636.68	6766.62
638.75	6766.52	641.69	6766.51	643.59	6766.54	646.69	6766.56	648.43	6766.45
651.69	6766.3	653.27	6766.33	656.7	6766.31	658.11	6766.29	661.7	6766.36
662.95	6766.35	666.7	6766.4	670.72	6766.4	671.7	6766.42	672.63	6766.41
676.71	6766.5	681.71	6766.68	682.31	6766.67	686.71	6766.68	691.72	6766.82
696.72	6766.98	701.72	6766.93	706.51	6766.91	711.35	6767.08	711.73	6767.1
716.19	6766.93	717.31	6766.87	721.73	6766.5	725.87	6766.42	726.74	6766.35
730.71	6766.33	731.74	6766.4	735.55	6766.41	740.39	6766.36	741.74	6766.36
745.22	6766.23	746.75	6766.13	750.06	6765.6	751.75	6765.4	754.9	6765.28
756.75	6765.08	758.73	6765.65	761.76	6766.26	764.58	6766.13	766.76	6766.17
769.42	6765.98	771.76	6766.01	774.26	6765.9	776.76	6765.33	779.1	6765.4
781.77	6765.35	783.94	6765.77	786.77	6766.09	788.78	6766.15	791.77	6766.61
793.62	6766.57	796.77	6766.6	798.46	6766.51	801.78	6766.1	803.3	6765.72
805.9	6765.17	806.78	6764.98	808.54	6764.85	811.78	6764.62	813	6764.66
816.79	6764.56	817.86	6764.46	821.79	6764.27	822.71	6764.3	826.79	6764.65
827.56	6764.67	831.79	6765.04	832.41	6765.07	833.54	6765.06	836.79	6765.04
837.27	6765.06	841.8	6765.03	842.12	6765.04	846.8	6765.05	851.8	6764.94
856.8	6765.81	861.53	6766.11	861.81	6766.11	866.39	6766.01	866.81	6765.95
871.24	6765.09	871.81	6765.15	876.09	6766.24	876.81	6766.35	880.95	6766.34
881.82	6766.29	885.8	6766.34	886.82	6766.27	890.65	6765.75	891.82	6765.69
895.51	6766.21	896.82	6766.38	898.22	6766.37	901.83	6766.29	905.21	6766.49
910.07	6766.58	911.83	6766.63	914.92	6766.64	916.83	6766.58	919.77	6766.5
924.63	6766.47	926.84	6766.43	929.48	6766.44	931.84	6766.52	934.33	6766.53
936.84	6766.58	939.51	6766.66	941.84	6766.77	944.04	6766.79	946.85	6766.9
948.89	6766.9	951.85	6766.88	953.75	6766.8	956.85	6766.68	958.6	6766.65
961.85	6766.49	966.86	6766.5	968.31	6766.49	971.86	6766.52	973.16	6766.52
976.86	6766.57	978.01	6766.53	981.86	6766.66	982.87	6766.67	986.87	6766.66
991.12	6766.13	992.57	6766.06	996.87	6765.89	1001.87	6765.98	1002.28	6765.98
1006.87	6765.74	1011.88	6765.8	1011.98	6765.79	1015.48	6765.71	1016.88	6765.67
1021.69	6765.73	1021.88	6765.74	1026.54	6766.67	1027.25	6766.76	1031.89	6766.93
1036.25	6766.87	1036.89	6766.84	1041.89	6767.15	1045.96	6767.33	1046.89	6767.43
1050.81	6767.56	1051.9	6767.57	1055.66	6767.65	1056.9	6767.7	1060.52	6767.71
1065.37	6767.65	1066.9	6767.62	1070.22	6767.5	1071.91	6767.5	1075.08	6767.33
1076.91	6767.22	1078.86	6767.42	1081.91	6767.76	1084.78	6767.9	1086.91	6767.96
1089.64	6767.94	1091.92	6767.96	1094.49	6768.03	1096.92	6768.08	1099.34	6768.1
1101.92	6768.1	1104.2	6768.07	1106.92	6768.05	1109.05	6768	1111.92	6767.88
1113.9	6767.84	1116.93	6767.83	1120.14	6767.8	1121.93	6767.84	1123.61	6767.84
1128.46	6767.78	1133.32	6767.82	1136.94	6767.91	1138.17	6767.92	1141.94	6767.91
1143.02	6767.9	1147.88	6767.91	1151.94	6767.89	1156.95	6768	1157.58	6768.03
1161.95	6768.19	1162.44	6768.18	1166.95	6768.21	1171.75	6768.15	1172.14	6768.15
1176.96	6768.07	1176.99	6768.06	1181.96	6767.6	1186.7	6767.59	1186.96	6767.58
1191.55	6767.5	1196.41	6767.37	1196.96	6767.35	1201.26	6767.16	1201.97	6767.16
1206.11	6767.11	1210.97	6767.11	1211.97	6767.12	1213.04	6767.09	1216.97	6767.15
1220.67	6767.02	1225.53	6767.03	1230.38	6767.4	1231.98	6767.68	1235.23	6768.11
1236.98	6768.38	1240.09	6769.16	1241.99	6769.84	1244.94	6770.4	1246.99	6770.7
1249.79	6771.48	1251.99	6772	1254.65	6772.59	1256.99	6772.9	1259.5	6773.41
1262	6773.69	1264.35	6773.81	1267	6773.91	1269.21	6774.01	1272	6774.17
1274.06	6774.34	1277	6774.46	1278.91	6774.43	1282	6774.35	1283.77	6774.36
1287.01	6774.41	1288.62	6774.46	1292.01	6774.53	1293.47	6774.55	1297.01	6774.62
1298.33	6774.67	1302.01	6774.7	1303.18	6774.73	1307.02	6774.86	1308.03	6774.87

1312.02	6774.94	1312.89	6774.95	1317.02	6774.96	1322.02	6775.1	1327.03	6775.08
1332.3	6775.09	1337.15	6775.13	1342.03	6775.19	1346.86	6775.32	1347.04	6775.33
1351.71	6775.37	1356.56	6775.37	1357.04	6775.36	1358.83	6775.37		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	796.77	.04	861.81	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	796.77	861.81		223	223		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	711.73	6767.1	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5893

INPUT

Description:

Station	Elevation	Data	num=	489					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6767.21	.5	6767.21	1.65	6767.07	2	6767	2.27	6766.96
3.15	6766.8	3.67	6766.7	4.37	6766.58	4.68	6766.52	5.55	6766.37
5.69	6766.34	6.68	6766.16	8.44	6766.12	8.72	6766.11	9.09	6766.11
9.73	6766.09	10.74	6766.07	11.98	6766.04	15	6766.04	15.79	6766.05
16.18	6766.06	16.39	6766.05	17.27	6766.07	17.81	6766.07	18.15	6766.08
19.04	6766.08	20.5	6766.1	20.9	6766.1	21.69	6766.09	22.09	6766.09
22.57	6766.07	22.87	6766.07	23.88	6766.05	24.89	6766.05	25.22	6766.04
26.81	6766.04	26.91	6766.03	27.86	6766.16	27.99	6766.17	28.75	6766.27
29.17	6766.32	29.63	6766.31	29.94	6766.36	30.51	6766.38	31.4	6766.42
31.96	6766.45	33.9	6766.4	35.08	6766.38	35.81	6766.36	36.26	6766.34
37.01	6766.32	37.57	6766.23	38.62	6766.04	39.34	6765.92	40.04	6765.79
40.22	6765.79	40.99	6765.63	41.46	6765.6	42.17	6765.58	43.07	6765.63
43.35	6765.65	44.64	6765.72	45.1	6765.74	45.52	6765.77	46.11	6765.8
46.4	6765.79	46.89	6765.84	47.12	6765.83	47.28	6765.86	48.07	6765.97
49.05	6766.1	49.26	6766.12	50.15	6766.24	50.44	6766.27	51.16	6766.37
52.17	6766.5	52.58	6766.57	52.8	6766.69	53.18	6766.77	53.98	6766.92
54.19	6766.97	55.16	6767.15	55.23	6767.17	56.21	6767.36	56.34	6767.38
56.99	6767.51	57.22	6767.55	57.88	6767.58	58.71	6767.61	58.76	6767.63
59.24	6767.64	60.52	6767.74	61.07	6767.77	61.26	6767.79	62.25	6767.86
62.41	6767.85	63.43	6767.81	64.29	6767.77	64.61	6767.71	64.94	6767.74
65.79	6767.57	66.31	6767.46	66.7	6767.39	67.32	6767.26	68.16	6767.29
68.47	6767.31	70.23	6767.37	70.36	6767.38	71.12	6767.39	72.38	6767.43
75.41	6767.43	75.53	6767.42	76.42	6767.43	77.3	6767.39	78.18	6767.42
78.44	6767.42	78.79	6767.44	79.06	6767.44	79.45	6767.46	79.94	6767.47
79.97	6767.48	81.15	6767.51	81.71	6767.54	82.33	6767.55	82.59	6767.56
83.36	6767.54	83.51	6767.53	84.69	6767.5	85.24	6767.49	85.88	6767.47
86.52	6767.46	87.01	6767.44	87.53	6767.43	87.89	6767.44	88.24	6767.42
88.54	6767.43	89.42	6767.44	89.65	6767.45	90.54	6767.46	90.56	6767.47
90.59	6765.82	91.57	6765.82	95.85	6765.75	98.98	6765.69	102.68	6765.63
104.53	6765.61	106.38	6765.61	109.22	6765.58	110.08	6765.59	111.77	6765.57
120.04	6765.45	124.85	6765.39	130.32	6765.35	132.79	6765.34	141.99	6765.26
142.21	6765.26	144.92	6765.24	153.19	6765.2	161.05	6765.15	169.23	6765.11
175.15	6765.09	180.34	6765.06	182.19	6765.06	187.74	6765.02	189.3	6765.02
193.42	6765	193.99	6765	198.72	6764.97	202.51	6764.96	206.21	6764.93
211.19	6764.9	219.49	6764.86	221.02	6764.86	224.72	6764.83	231.67	6764.79
236.36	6764.77	239.48	6764.75	243.19	6764.75	244.34	6764.76	248.49	6764.76
252.65	6764.75	256.76	6764.73	264.62	6764.68	269.35	6764.64	274.03	6764.67
276.5	6764.68	285.76	6764.77	289.91	6764.8	302.37	6765.22	307.02	6765.38
309.78	6765.49	310.64	6765.51	314.76	6765.67	317.18	6765.75	318.91	6765.82
320.08	6766.02	320.63	6766.12	320.85	6766.18	321.33	6766.24	321.62	6766.31
323.17	6766.73	323.94	6766.95	324.71	6767.16	325.26	6767.29	325.48	6767.37
325.81	6767.44	326.56	6772.1	327.54	6772.21	327.59	6772.22	328.53	6772.24
329.57	6772.25	329.62	6772.26	330.63	6772.27	331.5	6772.29	331.64	6772.3
332.65	6772.31	334.68	6772.29	335.45	6772.28	336.57	6772.27	336.7	6772.26
337.42	6772.25	338.73	6772.25	339.4	6772.24	340.57	6772.24	340.75	6772.23
341.57	6772.23	341.77	6772.22	342.36	6772.23	342.57	6772.21	343.79	6772.23
344.57	6772.23	344.8	6772.24	345.33	6772.24	345.57	6772.25	346.32	6772.26

346.83	6772.26	347.3	6772.27	347.84	6772.27	348.57	6772.26	348.85	6772.25
349.28	6772.25	349.57	6772.24	350.27	6772.23	350.88	6772.23	352.24	6772.21
353.23	6772.19	353.91	6772.19	354.22	6772.18	354.93	6772.18	355.21	6772.17
355.94	6772.17	356.2	6772.16	356.57	6772.16	357.57	6772.14	358.17	6772.14
358.57	6772.15	359.57	6772.15	359.99	6772.16	361.14	6772.16	361.57	6772.17
362.57	6772.17	363.03	6772.2	363.57	6772.22	364.04	6772.25	364.57	6772.27
365.05	6772.3	365.57	6772.32	366.06	6772.35	366.57	6772.37	367.07	6772.4
367.08	6772.37	367.57	6772.39	368.57	6772.37	369.04	6772.35	369.57	6772.34
370.03	6772.32	371.02	6772.3	371.13	6772.29	372.57	6772.26	373.15	6772.28
376.19	6772.43	377.57	6772.5	377.93	6772.51	378.21	6772.49	378.57	6772.5
378.92	6772.52	379.91	6772.55	380.24	6772.57	380.9	6772.59	381.25	6772.61
381.89	6772.63	382.57	6772.66	383.28	6772.63	384.29	6772.6	386.83	6772.5
387.33	6772.57	387.57	6772.56	388.34	6772.6	388.57	6772.62	389.35	6772.66
389.57	6772.68	390.57	6772.73	390.78	6772.75	392.57	6772.84	394.73	6772.84
395.42	6772.83	397.69	6772.83	399.47	6772.85	399.67	6772.86	401.65	6772.88
402.51	6772.84	402.63	6772.84	403.52	6772.89	403.62	6772.9	404.54	6772.94
404.61	6772.95	406.56	6773.05	407.57	6773.07	408.56	6773.04	409.6	6773.02
410.54	6772.99	410.61	6773	411.62	6772.97	412.51	6773.01	413.65	6773.09
414.49	6773.16	415.67	6773.24	416.47	6773.3	417.57	6773.4	420.57	6773.4
420.74	6773.41	421.41	6773.4	421.75	6773.42	423.77	6773.48	424.37	6773.46
424.79	6773.46	425.58	6773.44	426.35	6773.43	427.33	6773.41	427.58	6773.4
428.84	6773.45	429.31	6773.46	430.58	6773.51	430.86	6773.54	431.29	6773.53
431.58	6773.57	432.27	6773.64	432.58	6773.68	433.26	6773.71	434.58	6773.79
434.91	6773.8	435.58	6773.84	435.92	6773.82	436.23	6773.88	436.94	6773.84
437.58	6773.81	439.58	6773.75	439.97	6773.73	440.58	6773.72	440.99	6773.72
441.17	6773.7	442.58	6773.73	444.02	6773.7	444.58	6773.7	445.58	6773.68
446.05	6773.69	446.11	6773.67	447.58	6773.7	450.1	6773.7	450.58	6773.69
452.58	6773.69	453.58	6773.72	454.01	6773.74	454.58	6773.75	455.58	6773.79
456.17	6773.8	456.58	6773.82	457.58	6773.84	458.2	6773.81	458.58	6773.8
459.58	6773.75	459.94	6773.74	460.22	6773.72	460.58	6773.71	460.93	6773.69
461.23	6773.71	461.58	6773.7	462.25	6773.7	462.58	6773.71	463.89	6773.79
464.88	6773.86	465.58	6773.88	465.87	6773.92	466.3	6773.87	466.58	6773.88
466.85	6773.87	467.84	6773.81	468.32	6773.79	468.83	6773.74	469.33	6773.73
469.58	6773.69	471.36	6773.46	471.79	6773.4	472.58	6773.3	473.38	6773.29
473.58	6773.28	474.4	6773.27	475.41	6773.24	475.75	6773.24	476.42	6773.22
476.73	6773.22	477.72	6773.19	478.58	6773.18	478.71	6773.17	479.7	6773.16
480.47	6773.14	480.69	6773.14	481.48	6773.08	482.66	6773.01	485.63	6772.8
486.55	6772.79	486.58	6772.78	487.6	6772.77	488.57	6772.75	490.57	6772.73
492.62	6772.75	494.52	6772.71	494.64	6772.7	495.51	6772.69	495.66	6772.68
496.49	6772.66	496.67	6772.66	497.48	6772.64	497.68	6772.63	499.71	6772.63
500.45	6772.62	500.72	6772.63	501.73	6772.63	502.74	6772.64	503.76	6772.67
504.4	6772.68	505.78	6772.71	506.58	6772.74	506.79	6772.74	507.58	6772.77
508.35	6772.77	509.34	6772.79	509.83	6772.78	510.33	6772.8	511.58	6772.77
512.3	6772.72	513.29	6772.76	513.58	6772.77	514.28	6772.78	514.89	6772.78
516.92	6772.81	517.58	6772.83	518.23	6772.84	518.58	6772.84	519.58	6772.86
519.96	6772.86	520.21	6772.87	520.97	6772.87	521.19	6772.86	522.99	6772.86
523.17	6772.85	523.58	6772.85	524.01	6772.84	524.58	6772.84	525.58	6772.82
526.13	6772.82	527.04	6772.8	527.58	6772.8	528.58	6772.78	529.1	6772.78
529.58	6772.77	530.08	6772.77	530.58	6772.76	531.09	6772.76	531.58	6772.75
532.11	6772.75	532.58	6772.74	533.58	6772.76	534.13	6772.78	535.03	6772.8
535.14	6772.83	535.58	6772.84	536.16	6772.88	536.28	6772.88		

Manning's n Values		num=	3		
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	90.54	.04	325.81	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
90.54	325.81	263.61	263.61	263.61		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5892.0

INPUT

Description:

Station Elevation Data		num=	487		
Sta	Elev	Sta	Elev	Sta	Elev
-199.21	6765.92	-199.13	6765.88	-197.36	6766.01
-192.22	6765.92	-190.07	6765.92	-185.19	6765.82
				-182.27	6765.88
				-181.29	6765.84

-180.32	6765.78	-178.88	6765.71	-177.11	6765.66	-174.77	6765.66	-173.49	6765.64
-171.54	6765.59	-168.61	6765.53	-167.64	6765.52	-166.11	6765.52	-165.11	6765.53
-164.71	6765.57	-164.5	6765.54	-163.11	6765.66	-162.11	6765.76	-159.37	6765.76
-159.11	6765.77	-156.91	6765.79	-154.23	6765.71	-152.11	6765.55	-149.1	6765.51
-144.24	6765.41	-143.96	6765.41	-140.33	6765.3	-137.8	6765.21	-136.43	6765.17
-134.48	6765.14	-133.1	6765.13	-131.56	6765.15	-129.61	6765.21	-128.63	6765.22
-128.56	6765.24	-126.51	6765.23	-124.1	6765.16	-122.1	6765.12	-121.37	6765.13
-118.88	6765.13	-118.29	6765.14	-116.24	6765.13	-116.09	6765.14	-113.16	6765.17
-112.05	6765.17	-110.08	6765.14	-107.18	6765.11	-102.89	6765	-101.86	6764.99
-99.81	6765.01	-98.09	6765.04	-96.73	6765.04	-92.62	6764.99	-91.09	6764.99
-90.6	6764.98	-87.49	6764.98	-87.08	6764.97	-85.08	6765.05	-82.8	6765.12
-82.08	6765.15	-80.08	6765.1	-76.95	6765.01	-75	6764.91	-74.02	6764.87
-72.09	6764.77	-70.08	6764.77	-70.03	6764.76	-67.08	6764.76	-65.25	6764.69
-62.08	6764.58	-59.4	6764.69	-57.07	6764.8	-56.07	6764.82	-52.07	6764.85
-51.55	6764.86	-48.47	6765.03	-47.07	6765.12	-45.39	6765.15	-44.36	6765.18
-42.07	6765.23	-40.87	6765.24	-37.17	6765.31	-35.02	6765.31	-34.09	6765.3
-32.04	6765.3	-29.16	6765.32	-27.06	6765.32	-25.88	6765.25	-24.06	6765.18
-23.82	6765.18	-22.06	6765.11	-20.74	6765.08	-19.41	6765.07	-17.06	6765.04
-16.64	6765.06	-15.06	6765.09	-13.06	6765.09	-11.5	6765.1	-10.48	6765.09
-7.06	6765.01	-5.06	6765.01	-4.79	6765	-1.86	6765	.82	6765.04
2.87	6765.1	5.72	6765.13	7.95	6765.13	9.84	6765.09	10.95	6765.08
12.95	6765.08	15.19	6765.04	16.22	6765.04	17.95	6765.02	19.59	6765.06
20.95	6765.07	22.52	6765.06	27.95	6764.95	31.3	6764.95	32.27	6764.97
33.25	6764.96	34.22	6764.9	36.17	6764.8	37.78	6764.74	38.81	6764.72
40.07	6764.68	40.87	6764.67	42.92	6764.57	43.95	6764.61	45.92	6764.71
47.96	6764.79	51.13	6764.79	52.96	6764.8	54.7	6764.83	55.96	6764.84
57.63	6764.87	58.96	6764.91	59.58	6764.94	62.5	6765.04	64.45	6765.08
64.97	6765.08	66.54	6765.11	67.97	6765.11	69.33	6765.08	70.3	6765.07
72.97	6765.02	73.97	6765.02	76.8	6764.99	78.1	6764.99	79.88	6765.01
81.94	6765.02	82.98	6765.01	84.93	6764.97	86.88	6764.94	88.1	6764.93
89.13	6764.96	90.15	6764.96	92.73	6764.99	94.26	6765	95.98	6765
96.31	6765.01	97.98	6765.01	100.42	6764.81	102.47	6764.63	102.48	6764.66
102.98	6764.62	105.98	6764.33	107.98	6764.13	111.98	6764.13	112.74	6764.12
114.8	6763.99	117.98	6763.8	119.93	6763.96	122.05	6764.12	122.96	6764.2
125.06	6764.2	125.89	6764.21	128.15	6764.21	128.99	6764.19	130.2	6764.18
132.99	6764.13	133.99	6763.99	135.33	6763.78	136.36	6763.63	137.99	6763.37
140.47	6763.27	140.52	6763.26	142.47	6763.18	142.52	6763.01	142.99	6762.98
143.99	6762.61	144.99	6762.26	145.6	6761.98	146.37	6761.66	146.63	6762.58
146.99	6762.44	147.34	6762.95	147.66	6762.63	147.99	6763.12	152.22	6763.25
153.19	6763.29	153.82	6763.41	155.14	6763.54	158.07	6763.84	159.04	6763.93
160.82	6764.15	160.99	6764.18	163.06	6764.44	164.08	6764.6	168	6765.37
169.22	6765.14	169.77	6765.14	170	6765.09	171.27	6765.02	173	6764.91
174.35	6765.02	175	6765.05	176.6	6765.1	178	6765.16	178.46	6765.15
181.01	6765.14	183.01	6765.12	184.01	6764.98	185.65	6764.77	186.35	6764.67
188.3	6764.45	190.25	6764.29	191.81	6764.15	193.01	6764.03	194.15	6764.1
197.97	6764.31	200	6764.33	203.1	6764.3	204.88	6764.34	208.01	6764.43
210.29	6764.45	213.02	6764.37	215.43	6764.26	215.6	6764.29	216.02	6764.27
218.02	6764.3	220.02	6764.07	220.48	6764.05	220.56	6764.01	223.02	6763.92
226.02	6763.65	228.02	6763.42	229.8	6763.39	230.23	6763.36	230.83	6763.37
232.18	6763.25	232.25	6763.55	236.37	6762.92	237.26	6762.82	237.52	6762.76
241.46	6761.92	242.26	6761.8	246.53	6761.5	247.26	6761.39	249.9	6761.3
251.6	6761.25	252.26	6761.21	256.67	6761.44	257.26	6761.42	261.74	6761.78
262.26	6761.83	262.77	6761.8	267.27	6761.48	267.7	6761.47	272.27	6761.57
276.96	6761.64	277.27	6761.65	282.03	6762.46	282.27	6762.48	287.1	6763.54
287.27	6763.6	287.36	6762.28	288.04	6762.32	291.04	6762.97	291.3	6763.08
291.78	6763.14	293.04	6763.65	296.04	6764.27	296.23	6764.29	296.85	6764.44
298.04	6764.56	300.91	6764.24	301.17	6764.25	301.92	6764.13	303.14	6764.3
306.99	6764.6	308.01	6764.72	312.06	6765.82	313	6766.11	314.09	6766.36
314.98	6766.55	317.04	6767.01	318.15	6767.29	321.04	6767.89	322.2	6768.14
323.04	6768.34	326.26	6769.24	327.27	6769.53	327.8	6769.53	328.29	6769.62
329.77	6769.8	332.34	6770.1	333.04	6770.16	334.7	6770.15	337.41	6770.15
338.04	6770.13	340.62	6770.2	342.49	6770.24	342.6	6770.19	343.04	6770.2
345.53	6770.07	347.04	6769.98	347.53	6770	347.56	6769.96	348.04	6769.97
352.63	6769.41	358.04	6769.09	358.38	6769.09	358.71	6768.99	359.04	6768.98
359.73	6768.88	363.04	6768.36	363.31	6768.31	363.78	6768.29	364.04	6768.24
365.04	6768.15	366.82	6767.97	368.04	6767.86	370.88	6767.72	371.89	6767.66
372.19	6767.66	373.04	6767.61	375.15	6767.15	377.12	6766.73	377.98	6766.53
382.04	6766.15	383.04	6766.05	385.01	6765.89	386.09	6765.79	387.97	6765.64
389.95	6765.4	390.93	6765.29	393.05	6765.03	393.89	6765.12	395.22	6765.24
398.05	6765.52	399.81	6765.56	403.05	6765.66	405.36	6765.67	407.05	6765.69
408.05	6765.69	409.42	6765.99	412.05	6766.55	412.46	6766.55	412.63	6766.68

413.05	6766.68	413.47	6766.76	413.62	6766.71	414.05	6766.79	418.05	6767.03
419.05	6767.02	423.05	6766.94	423.61	6766.97	426.05	6767.22	426.45	6767.27
428.05	6767.43	428.42	6767.35	428.69	6767.39	429.4	6767.23	430.39	6767.03
433.05	6766.47	433.35	6766.44	433.76	6766.52	438.05	6766.22	438.28	6766.26
438.83	6766.24	443.22	6767.06	443.9	6767.22	445.93	6767.58	447.95	6767.95
448.97	6768.15	450.12	6768.36	453.02	6768.91	454.07	6769.02	456.04	6769.2
458.1	6769.4	459.11	6769.57	461.05	6769.8	461.14	6769.8	462.94	6770.01
464.18	6770.25	466.21	6770.52	468.05	6770.78	469.25	6770.78	472.05	6770.95
473.05	6771.02	474.32	6771.07	475.34	6771.09	477.74	6771.12	479.39	6771.15
479.71	6771.11	480.06	6771.12	481.42	6771.04	483.06	6770.96	485.06	6770.96
487.5	6770.99	489.53	6770.99	489.58	6770.95	490.06	6770.95	491.06	6770.88
493.06	6770.72	494.6	6770.66	497.06	6770.51	498.06	6770.44	499.67	6770.42
502.06	6770.49	503.06	6770.51	504.74	6770.51	508.06	6770.62	509.06	6770.61
509.31	6770.64	509.82	6770.6	513.06	6770.89	514.89	6770.97	515.9	6770.95
517.93	6770.89	519.96	6770.91	523.12	6770.81	524.1	6770.81	525.09	6770.79
526.99	6770.86	530.02	6770.95	530.1	6770.96	533.14	6771.09	535.17	6771.32
535.94	6771.35	536.93	6771.42	538.06	6771.48	540.24	6771.14	540.87	6771.16
541.06	6771.13	543.06	6771.09	543.83	6771.17	546.06	6771.37	549.06	6771.58
550.38	6771.68	550.73	6771.68	553.06	6771.82	555.46	6771.87	558.06	6771.98
560.53	6771.89	560.6	6771.93	561.06	6771.91	563.06	6771.98	565.6	6772.03
569.06	6772.21	569.47	6772.22	573.06	6772.4	575.74	6772.65	578.35	6772.83
579.06	6772.86	580.81	6772.96	583.07	6773.07	584.27	6773.06	586.07	6773.06
588.93	6773.11	591.07	6773.17	593.07	6773.19	596.1	6773.45	598.06	6773.54
601.1	6773.58	602.12	6773.64	603.99	6773.72	606.17	6773.8	606.95	6773.81
611.88	6773.96	612.66	6773.97						

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
-199.21	.05	232.25	.04
		287.27	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	232.25	287.27		142.82	142.83	142.82		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5550.12

INPUT

Description:

Station	Elevation	Data	num=	487					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-41.84	6764.12	-38.78	6763.95	-36.78	6763.92	-34	6763.92	-33.78	6763.93
-32.04	6763.83	-30.5	6763.76	-28.46	6763.68	-27.44	6763.67	-24.78	6763.59
-24.16	6763.56	-22.2	6763.53	-20.78	6763.53	-19.24	6763.55	-16.78	6763.6
-15.78	6763.61	-13.78	6763.57	-11.18	6763.43	-6.09	6763.28	-3.77	6763.28
-7.77	6763.4	1.42	6763.44	4.08	6763.37	6.11	6763.34	9.29	6763.35
11.26	6763.38	14.24	6763.33	16.18	6763.25	18.15	6763.19	19.13	6763.17
21.23	6763.06	25.43	6763.12	26.23	6763.14	28.48	6763.11	31.23	6763.11
31.53	6763.09	34.58	6762.97	35.86	6762.98	37.63	6762.98	37.83	6762.99
40.23	6762.99	41.23	6762.98	42.75	6762.93	46.23	6763.02	48.23	6763.12
51.23	6763.29	51.86	6763.28	54.91	6763.19	60.46	6763.19	61.23	6763.21
63.41	6763.12	65.08	6763.04	66.37	6763	70.17	6763.1	71.29	6763.1
73.25	6763.15	75.22	6763.21	76.27	6763.18	80.33	6762.86	82.37	6762.95
85.42	6763.1	86.43	6763.09	89.24	6763.03	90.24	6763.02	91.24	6762.99
93.55	6763.15	95.59	6763.28	95.89	6763.37	96.24	6763.4	100.24	6763.13
101.24	6763.09	103.76	6762.83	105.24	6762.69	105.73	6762.59	105.75	6762.63
106.24	6762.54	108.24	6762.39	109.66	6762.27	110.65	6762.22	111.24	6762.17
112.87	6762.19	113.6	6762.21	116.24	6762.25	121.24	6762.8	122.24	6762.77
125.07	6762.66	126.24	6762.63	128.36	6762.75	130.16	6762.86	130.33	6762.85
131.17	6762.91	133.28	6762.91	135.24	6762.93	136.26	6762.93	141.34	6763.03
144.1	6763.11	146.07	6763.16	146.42	6763.14	147.06	6763.21	147.25	6763.19
151.25	6763.41	151.51	6763.37	154.56	6763.16	156.25	6763.05	156.59	6763.04
156.9	6762.98	157.25	6762.98	158.63	6762.83	161.25	6762.56	161.68	6762.57
161.82	6762.53	162.25	6762.54	164.77	6762.42	166.74	6762.34	166.76	6762.36
170.83	6762.26	171.66	6762.23	171.84	6762.26	173.25	6762.21	174.61	6762.15
176.25	6762.09	177.56	6762.17	181.25	6762.43	182.01	6762.39	183.47	6762.43
184.25	6762.44	186.08	6762.49	186.42	6762.48	187.1	6762.4	191.16	6762.28
192.18	6762.2	196.25	6762.16	197.26	6762.05	199.3	6761.88	201.33	6761.72
202.35	6761.78	203.15	6761.72	204.38	6761.65	206.25	6761.52	210.48	6761.81

211.25	6761.87	212.52	6761.89	214.55	6761.85	215.57	6761.84	218.26	6761.76
221.26	6761.7	222.26	6761.56	222.68	6761.55	222.83	6761.49	223.26	6761.48
223.7	6761.03	223.81	6761.13	224.26	6760.68	224.72	6761.07	224.79	6760.78
225.26	6761.18	225.73	6761.33	225.78	6761.48	226.26	6761.63	227.26	6761.66
227.75	6761.72	227.77	6761.68	229.26	6761.86	231.26	6762.09	232.26	6762.05
232.67	6762.07	232.85	6762.03	233.65	6762.07	236.26	6762.17	237.93	6762.13
239.55	6762.12	241.52	6762.13	243.02	6762.2	246.26	6762.32	247.26	6762.49
247.43	6762.49	248.1	6762.63	250.38	6762.67	253.33	6762.73	256.24	6762.56
258.25	6762.53	261.32	6762.54	263.17	6762.59	264.16	6762.67	266.4	6762.83
268.44	6762.88	269.26	6762.93	271.26	6763.03	273.52	6762.99	274.54	6763.01
276.26	6763.06	278.61	6763.36	279.9	6763.48	281.26	6763.59	282.85	6763.56
284.82	6763.51	286.26	6763.46	288.77	6763.31	291.27	6763.21	293.86	6763.25
297.27	6763.35	298.94	6763.41	301.27	6763.41	303.27	6763.36	304.27	6763.35
306.47	6763.42	308.27	6763.44	309.42	6763.47	311.14	6763.54	311.39	6763.54
313.18	6763.47	315.21	6763.47	315.27	6763.46	318.28	6763.47	320.25	6763.55
321.23	6763.58	324.18	6763.7	326.15	6763.75	327.41	6763.73	329.45	6763.67
330.09	6763.69	331.07	6763.69	332.05	6763.71	334.27	6763.73	336.27	6763.78
338.6	6763.74	339.61	6763.73	340.91	6763.64	343.27	6763.54	344.7	6763.49
344.85	6763.53	345.27	6763.51	346.27	6763.55	347.27	6763.5	351.27	6763.32
354.69	6763.29	356.27	6763.29	359.95	6763.51	361.27	6763.62	363	6763.65
364.53	6763.66	365.03	6763.68	366.28	6763.63	367.28	6763.62	369.45	6763.58
371.13	6763.56	372.4	6763.62	374.18	6763.73	375.2	6763.78	379.29	6763.82
381.3	6763.83	383.22	6763.75	385.28	6763.65	386.38	6763.65	390.45	6763.53
391.28	6763.48	391.47	6763.49	391.67	6763.69	393.2	6763.34	395.7	6762.83
396.67	6762.64	400.06	6762.59	401.67	6762.56	403.3	6762.46	406.67	6762.34
408.34	6762.16	411.67	6761.64	413.38	6761.55	416.67	6761.47	418.42	6761.46
421.67	6761.31	423.46	6761.28	426.67	6761.21	428.5	6761.29	431.67	6761.37
433.54	6761.53	436.67	6761.64	441.67	6761.8	443.62	6762.11	446.67	6762.37
448.66	6762.86	451.67	6763.58	451.98	6762.29	456.28	6763.31	457.28	6763.43
460.28	6763.82	460.52	6763.88	461.05	6763.92	461.28	6763.97	463.5	6764.14
464.28	6764.21	465.48	6764.29	466.28	6764.36	471.28	6764.63	476.17	6764.71
480.2	6764.65	481.36	6764.62	484.23	6764.56	486.25	6764.51	491.28	6764.06
492.27	6764.07	496.32	6764.07	501.2	6763.92	502.37	6763.97	505.39	6764.06
507.41	6764.14	509.43	6764.24	512.12	6764.35	516.09	6764.47	516.28	6764.48
523.54	6764.48	526.28	6764.46	528	6764.35	528.28	6764.32	530.59	6764.16
531.28	6764.1	531.97	6764.07	533.62	6763.97	536.64	6763.82	536.93	6763.86
537.28	6763.85	541.28	6764.03	542.69	6764.14	544.7	6764.25	546.28	6764.35
546.72	6764.4	546.85	6764.36	547.28	6764.41	551.28	6764.49	551.76	6764.46
553.28	6764.44	555.28	6764.4	556.28	6764.39	556.77	6764.36	556.8	6764.31
558.28	6764.22	560.28	6764.11	561.73	6764.05	562.28	6764.07	564.28	6764.06
566.28	6764.06	568.68	6764.16	571.29	6764.29	571.66	6764.28	571.91	6764.32
572.92	6764.3	576.29	6764.21	576.95	6764.15	581.29	6763.71	583.29	6763.93
583.57	6763.97	585.55	6764.19	586.02	6764.16	586.29	6764.19	587.03	6764.15
589.29	6763.97	591.29	6763.82	592.06	6763.91	595.07	6764.04	597.08	6764.15
601.47	6764.37	602.11	6764.36	604.45	6764.49	606.29	6764.58	606.44	6764.61
607.13	6764.63	609.14	6764.93	611.42	6765.26	612.41	6765.46	615.4	6765.97
616.18	6766.11	617.18	6766.51	619.38	6767.8	621.2	6768.88	621.37	6768.97
622.21	6769.51	625.22	6771.13	626.23	6771.66	627.23	6772.16	628.24	6772.52
631.25	6773.57	632.32	6773.69	633.31	6773.82	635.27	6774.05	636.27	6774.18
637.29	6774.25	640.28	6774.43	642.3	6774.56	643.26	6774.54	646.32	6774.51
647.29	6774.47	651.35	6774.47	652.35	6774.43	656.2	6774.51	657.2	6774.55
658.38	6774.52	661.4	6774.41	662.4	6774.4	663.17	6774.42	665.29	6774.45
665.42	6774.46	668.29	6774.49	669.44	6774.52	671.13	6774.55	675.11	6774.57
676.47	6774.61	679.29	6774.64	681.29	6774.65	682.5	6774.7	685.29	6774.73
686.29	6774.75	687.53	6774.66	689.54	6774.47	691.29	6774.32	692.55	6774.36
694.56	6774.47	696.01	6774.56	697.57	6774.6	701.29	6774.92	702.6	6775.09
702.97	6775.08	703.29	6775.12	706.29	6775.24	707.62	6775.31	707.95	6775.27
708.29	6775.29	711.29	6775.19	712.65	6775.04	712.92	6775.08	713.29	6775.04
716.91	6775.04	718.9	6775.07	721.29	6775.12	721.69	6775.11	724.29	6775.11
726.29	6775.13	727.72	6775.09	730.74	6775.21	731.74	6775.24	732.75	6775.25
734.82	6775.15	736.29	6775.07	737.77	6775.13	741.29	6775.2	743.8	6775.18
745.77	6775.15	747.82	6775.16	748.83	6775.19	751.29	6775.24	752.73	6775.25
755.72	6775.25	757.87	6775.31	761.29	6775.38	763.9	6775.64	765.29	6775.76
766.29	6775.83	768.29	6775.71	771.29	6775.56	772.94	6775.54	774.29	6775.55
776.62	6775.55	777.97	6775.56	780.98	6775.48	781.29	6775.48	783.58	6775.41
785	6775.39	786.01	6775.36	788.56	6775.37	790.55	6775.34	797.29	6775.34
798.51	6775.36	801.29	6775.46	803.09	6775.48	806.47	6775.48	808.12	6775.51
810.45	6775.57	812.14	6775.59	814.15	6775.6	816.29	6775.6	820.17	6775.68
821.4	6775.7	823.19	6775.75	826.37	6775.73	828.21	6775.77	830.29	6775.78
830.35	6775.79	832.68	6775.8						

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 -41.84 .05 391.67 .04 451.67 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 391.67 451.67 190.33 190.32 190.33 .1 .3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5209

INPUT

Description:

Station Elevation Data		num= 488									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-101.21	6762.11	-100.89	6761.73	-99.03	6761.34	-98.82	6761.34	-98.26	6761.19		
-97.79	6761.2	-96.32	6761.28	-94.03	6761.42	-93.65	6761.47	-93.41	6761.46		
-93.03	6761.51	-88.03	6762.03	-87.03	6762.27	-83.73	6763.03	-83.31	6763.01		
-83.02	6763.07	-80.82	6762.76	-78.13	6762.39	-76.06	6762.36	-75.98	6762.35		
-74.04	6762.33	-72.96	6762.46	-69.2	6762.68	-67.26	6762.68	-66.29	6762.7		
-65.01	6762.71	-64.68	6762.69	-64.35	6762.72	-63.01	6762.62	-60.55	6762.57		
-60.01	6762.55	-59.51	6762.57	-59.51	6762.54	-58.01	6762.59	-56.41	6762.62		
-53.3	6762.69	-49.82	6762.71	-48.13	6762.69	-46.06	6762.65	-43.04	6762.61		
-40.89	6762.63	-38.82	6762.66	-37.23	6762.7	-35.29	6762.77	-33	6762.82		
-31	6762.77	-29.51	6762.75	-28.48	6762.75	-26.57	6762.71	-25.61	6762.68		
-25.37	6762.7	-24.64	6762.69	-22.99	6762.72	-19.79	6762.73	-16.99	6762.7		
-15.92	6762.7	-13.99	6762.57	-12.96	6762.51	-11.08	6762.21	-9.98	6762.2		
-7.98	6762.2	-7.2	6762.08	-4.68	6761.72	-2.61	6761.4	-2.36	6761.43		
-.98	6761.24	-.54	6761.21	-.42	6761.36	.02	6761.33	.49	6761.39		
.55	6761.35	1.02	6761.42	1.52	6761.44	1.53	6761.47	2.02	6761.5		
4.02	6761.78	5.02	6761.93	7.02	6762.21	8.3	6762.25	8.77	6762.33		
10.24	6762.5	12.03	6762.74	12.17	6762.75	18.08	6762.87	21.03	6762.69		
22.83	6762.61	24.77	6762.67	25.03	6762.67	27.39	6762.74	27.67	6762.73		
30.49	6762.79	31.04	6762.81	31.27	6762.78	34.1	6762.43	36.27	6762.27		
39.1	6761.84	41.27	6761.39	44.09	6761.05	46.27	6760.97	49.09	6760.71		
51.27	6760.33	54.08	6759.93	56.27	6759.74	59.08	6759.86	61.27	6759.71		
63.47	6759.74	66.27	6759.87	69.07	6759.97	71.27	6760.08	74.07	6760.15		
76.27	6760.24	79.06	6760.71	81.27	6760.95	84.06	6761.43	86.27	6762.13		
89.05	6762.43	91.27	6762.61	94.05	6762.35	96.27	6762.11	99.04	6762.27		
101.27	6762.24	104.04	6762.32	106.27	6762.47	109.03	6762.44	111.27	6762.49		
114.03	6762.44	116.27	6762.31	119.03	6762.36	121.27	6762.53	124.02	6762.63		
126.27	6762.7	129.02	6762.74	131.27	6762.9	134.01	6763	136.27	6762.87		
139.01	6762.68	141.27	6762.58	144	6762.75	146.27	6762.79	149	6762.78		
151.27	6762.79	153.55	6762.67	156.27	6762.44	158.99	6762.66	161.27	6762.86		
163.99	6762.88	166.27	6762.89	168.98	6762.88	171.27	6762.81	173.98	6762.76		
176.27	6762.78	178.97	6762.79	181.27	6762.77	183.97	6762.84	186.27	6762.86		
188.96	6763.04	191.27	6763.27	193.96	6763.18	196.27	6763.22	198.95	6763.12		
201.27	6763.11	203.95	6763.26	206.27	6763.2	208.94	6763.21	211.27	6763.08		
213.94	6763.21	216.27	6763.29	218.94	6763.3	221.27	6763.33	223.93	6763.32		
226.27	6763.36	228.93	6763.08	231.27	6762.89	233.92	6762.9	236.27	6762.77		
238.92	6763.12	241.27	6763.38	243.63	6763.29	246.27	6763.61	248.63	6763.84		
251.27	6763.39	253.9	6762.91	256.27	6761.94	258.9	6761.53	261.27	6761.08		
263.9	6760.33	266.27	6759.98	268.89	6759.87	271.27	6759.95	273.89	6759.99		
276.27	6760.04	278.88	6760.01	281.27	6759.93	283.88	6760.29	286.27	6760.5		
288.87	6760.6	291.27	6760.68	293.87	6760.58	296.27	6760.59	298.86	6760.5		
301.27	6760.47	303.86	6760.59	306.27	6760.59	308.86	6760.83	311.27	6761.08		
313.85	6761.32	316.27	6761.52	318.85	6761.39	326.27	6760.9	328.84	6760.76		
331.27	6760.67	333.71	6760.75	336.27	6760.81	338.71	6760.89	341.27	6760.74		
343.82	6760.88	346.27	6760.97	348.82	6761.16	351.27	6761.11	353.82	6761.15		
356.27	6761.23	358.81	6761.3	361.27	6761.21	363.81	6760.96	366.27	6761.02		
368.8	6761.36	371.27	6761.79	373.8	6762.62	376.27	6763.12	378.79	6763.39		
381.27	6763.46	383.79	6763.58	386.27	6763.89	388.78	6763.94	391.27	6764.17		
391.84	6763.67	392.85	6763.77	393.04	6763.77	395.23	6763.98	397.04	6764.14		
398.85	6764.07	406.86	6763.83	407.86	6763.72	410.22	6763.4	412.86	6763.07		
413.04	6763.07	415.87	6762.76	416.87	6762.64	417.21	6762.62	419.21	6762.61		
422.04	6762.58	422.21	6762.61	422.87	6762.62	424.2	6762.7	425.87	6762.77		
427.04	6762.83	431.04	6763.59	431.2	6763.6	431.88	6763.76	433.2	6763.78		
434.88	6763.82	437.04	6763.85	438.19	6763.65	442.04	6762.94	444.89	6762.93		
447.04	6762.91	447.89	6763.01	448.18	6763.02	451.9	6763.43	452.18	6763.45		

454.18	6763.45	454.9	6763.44	459.17	6763.44	459.91	6763.45	462.04	6763.45
463.91	6763.59	466.17	6763.77	467.04	6763.83	469.16	6763.87	471.04	6763.92
471.92	6763.93	474.92	6763.89	476.16	6763.86	480.92	6763.81	482.15	6763.81
482.93	6763.73	483.04	6763.74	487.04	6763.42	488.93	6763.45	491.93	6763.48
497.04	6763.48	498.04	6763.46	502.14	6763.42	502.94	6763.4	506.13	6763.34
507.13	6763.31	509.95	6763.25	511.95	6763.2	514.04	6763.2	514.12	6763.21
517.04	6763.21	520.96	6763.36	521.96	6763.39	524.12	6763.53	526.97	6763.73
528.97	6763.67	529.97	6763.65	531.11	6763.61	532.11	6763.59	533.97	6763.45
537.1	6763.23	538.98	6763.27	539.98	6763.28	541.1	6763.31	542.1	6763.32
543.1	6763.3	545.1	6763.24	547.98	6763.18	548.04	6763.19	549.99	6763.17
550.04	6763.16	552.09	6763.14	555.99	6763.3	556.99	6763.35	558.09	6763.37
561.08	6763.4	562.08	6763.42	563.08	6763.37	566	6763.25	567	6763.2
572.07	6763.15	574.07	6763.3	575.01	6763.38	577.01	6763.53	580.01	6763.71
581.01	6763.76	582.04	6763.83	585.06	6763.84	587.06	6763.86	589.02	6763.82
590.06	6763.81	592.02	6763.77	594.03	6763.76	596.05	6763.76	597.05	6763.75
598.03	6763.76	601.05	6763.77	603.03	6763.79	606.04	6763.8	607.04	6763.81
609.04	6763.88	612.04	6763.97	612.04	6763.98	614.04	6763.88	615.04	6763.84
617.03	6763.74	618.05	6763.7	620.03	6763.6	622.05	6763.51	624.05	6763.38
627.01	6763.2	628	6763.26	631.98	6763.54	632.1	6763.56	633.11	6763.94
636.13	6765.05	637.04	6765.39	638.14	6765.83	639.15	6766.22	640.92	6766.92
641.16	6767.03	641.91	6767.31	643.17	6767.93	643.9	6768.27	646.88	6769.71
647.2	6769.83	650.86	6770.78	652.23	6771.13	655.04	6771.64	656.26	6771.87
656.82	6771.96	659.04	6772.44	661.79	6773.02	664.77	6773.5	665.76	6773.65
667.04	6773.87	669.34	6774.21	670.73	6774.43	671.35	6774.49	671.73	6774.58
672.04	6774.6	675.7	6774.51	676.39	6774.54	676.69	6774.49	678.68	6774.66
679.04	6774.7	681.04	6774.87	681.42	6774.87	681.66	6774.92	683.04	6774.96
685.04	6775.04	686.04	6775.07	687.04	6775.12	690.47	6775.12	691.6	6775.11
692.49	6775.13	695.04	6775.23	696.04	6775.26	696.51	6775.23	696.57	6775.28
697.04	6775.25	697.52	6775.28	697.56	6775.25	698.04	6775.27	701.54	6775.27
702.04	6775.26	703.04	6775.29	705.57	6775.39	707.04	6775.44	709.04	6775.34
710.6	6775.25	711.48	6775.21	711.61	6775.24	712.61	6775.19	714.46	6775.14
716.44	6775.07	721.41	6774.99	722.04	6774.94	723.68	6774.93	725.39	6774.93
727.04	6774.92	729.72	6774.95	731.35	6774.96	732.74	6775.02	734.75	6775.08
737.04	6775.16	740.29	6775.16	741.29	6775.15	741.8	6775.13	744.27	6775.17
746.04	6775.21	747.04	6775.21	748.24	6775.25	749.24	6775.27	752.22	6775.36
754.21	6775.37	755.89	6775.39	757.19	6775.39	758.91	6775.37	762.16	6775.35
766.13	6775.39	767.13	6775.38	767.96	6775.39	770.98	6775.39	771.99	6775.42
773.09	6775.43	776.07	6775.49	781.04	6775.39	787.09	6775.45	789.1	6775.59
791.97	6775.82	796.94	6775.93	798.16	6775.81	800.17	6775.57	802.04	6775.36
803.19	6775.46	804.19	6775.56	806.88	6775.8	807.04	6775.82	809.23	6775.83
812.04	6775.86	814.83	6775.71	815.04	6775.69	817.04	6775.59	818.28	6775.58
822.04	6775.58	824.76	6775.64	827.34	6775.68	828.74	6775.68	832.04	6775.7
834.04	6775.74	836.04	6775.77	837.04	6775.77	841.04	6775.83	842.04	6775.86
845.04	6775.88	846.46	6775.9	847.39	6775.9				

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
-101.21	.05	31.27	.04	391.27	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
31.27	391.27	949.69	949.69	949.69		.1	.3
Ineffective Flow		num=		1			
Sta L	Sta R	Elev	Permanent				
391.27	847.39	6764.17	F				

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4667

INPUT

Description: Bottom Elevation Adjusted to Match Survey

Station Elevation Data		num=		486					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-562.16	6761.55	-561.27	6761.65	-560.48	6761.71	-560.34	6761.69	-559.11	6761.3
-555.87	6760.25	-555.8	6760.34	-554.86	6760.04	-552.32	6759.25	-551.55	6759.02
-550.32	6758.63	-550.18	6758.62	-545.5	6757.97	-544.3	6757.87	-543.63	6757.83
-540.82	6757.62	-540.29	6757.61	-539.68	6757.68	-538.01	6757.81	-535.37	6758.03
-534.13	6758.1	-530.52	6758.24	-530.27	6758.24	-528.65	6758.36	-527.71	6758.42
-526.73	6758.5	-525.25	6758.6	-523.5	6758.58	-520.26	6758.46	-519.29	6758.55

-518.1	6758.68	-517.42	6758.68	-517.02	6758.71	-515.55	6758.75	-513.78	6758.75
-513.67	6758.74	-511.8	6758.74	-511.62	6758.73	-510.22	6758.73	-508.99	6758.78
-508.06	6758.84	-507.31	6758.86	-505.25	6759.08	-504.07	6759.09	-502.99	6759.11
-502.2	6759.11	-501.19	6759.15	-498.7	6759.27	-497.18	6759.29	-496.52	6759.31
-495.18	6759.33	-494.36	6759.39	-493.28	6759.45	-491.21	6759.59	-490.16	6759.64
-485.72	6759.31	-485.59	6759.34	-485.15	6759.3	-481.14	6759.3	-480.91	6759.28
-480.33	6759.3	-479.98	6759.29	-477.09	6759.4	-475.3	6759.48	-473.85	6759.56
-470.11	6759.8	-468.46	6759.87	-465.22	6760.04	-464.14	6760.05	-462.19	6760.03
-460.9	6760.03	-460.09	6760.02	-458.75	6760.05	-458.08	6760.08	-455.08	6760.24
-451.89	6760.26	-451.19	6760.23	-450.02	6760.2	-448.06	6760.3	-445.8	6760.48
-445.05	6760.53	-443.05	6760.7	-442.56	6760.75	-442.53	6760.72	-442.04	6760.77
-440.04	6760.84	-439.04	6760.86	-437.85	6760.87	-437.16	6760.89	-435.31	6760.87
-433.93	6760.87	-433.17	6760.88	-431.77	6760.88	-430.01	6760.93	-428.01	6760.9
-426.62	6760.89	-425.68	6760.87	-425	6760.87	-424.21	6760.89	-420.98	6761.01
-419.13	6761.06	-418.82	6761.08	-417.26	6761.14	-415.98	6761.18	-414.98	6761.23
-413.97	6761.25	-410.97	6761.29	-410.71	6761.28	-408.03	6761.35	-404.79	6761.41
-402.28	6761.25	-401.35	6761.2	-399.94	6761.11	-396.67	6761.11	-396.15	6761.1
-394.8	6761.1	-393.86	6761.12	-390.12	6761.16	-388.6	6761.2	-386.91	6761.27
-384.9	6761.37	-383.2	6761.32	-381.69	6761.29	-379.82	6761.24	-377.95	6761.17
-375.14	6761.14	-374.2	6761.15	-372.33	6761.15	-371.87	6761.16	-369.86	6761.16
-368.1	6761.13	-367.02	6761.12	-365.78	6761.12	-364.86	6761.13	-362.03	6761.11
-360.54	6761.11	-359.84	6761.1	-357.83	6761.15	-357.35	6761.17	-356.42	6761.18
-356.23	6761.2	-354.82	6761.2	-354.07	6761.25	-352.99	6761.3	-350.61	6761.43
-349.75	6761.45	-348.67	6761.41	-347.81	6761.39	-346.8	6761.35	-343.8	6761.27
-342.2	6761.21	-339.79	6761.14	-337.88	6761.18	-336.5	6761.2	-334.89	6761.24
-333.02	6761.25	-329.76	6761.29	-329.27	6761.25	-329.25	6761.29	-328.34	6761.23
-326.01	6761.1	-324.59	6761.01	-323.85	6761.02	-322.77	6760.96	-320.85	6760.84
-319.53	6760.77	-316.17	6760.64	-314.72	6760.62	-314.14	6760.59	-311.98	6760.53
-310.55	6760.51	-309.62	6760.48	-307.66	6760.32	-306.81	6760.31	-305.87	6760.28
-304.43	6760.25	-303.7	6760.25	-302.69	6760.23	-301.69	6760.23	-299.69	6760.25
-297.95	6760.2	-294.71	6760.08	-294.67	6760.07	-291.83	6760.01	-289.32	6759.94
-288.24	6759.93	-286.65	6759.9	-279.61	6759.9	-277.45	6759.85	-275.29	6759.81
-274.05	6759.81	-271.24	6759.69	-269.61	6759.63	-268.81	6759.62	-264.5	6759.62
-263.75	6759.66	-263.42	6759.66	-261.88	6759.73	-261.26	6759.75	-259.59	6759.83
-259.1	6759.81	-257.2	6759.83	-256.94	6759.84	-254.57	6759.86	-253.57	6759.93
-252.63	6759.95	-251.55	6759.99	-249.71	6760.04	-248.31	6760.04	-244.55	6760.12
-243.54	6760.13	-241.28	6760.13	-240.76	6760.12	-239.41	6760.12	-237.53	6760.16
-235.67	6760.16	-234.52	6760.17	-232.12	6760.22	-231.51	6760.2	-229.51	6760.16
-227.24	6760.16	-225.37	6760.22	-224.44	6760.24	-221.33	6760.11	-220.69	6760.11
-219.76	6760.09	-218.48	6760.09	-216.48	6760.11	-215.47	6760.13	-214.47	6760.18
-212.27	6760.18	-210.39	6760.19	-209.46	6760.17	-207.59	6760.19	-206.22	6760.19
-205.71	6760.2	-204.06	6760.2	-201.44	6760.23	-200.44	6760.23	-199.16	6760.25
-198.67	6760.24	-197.29	6760.24	-196.51	6760.23	-194.35	6760.23	-191.11	6760.3
-188.96	6760.36	-185.72	6760.36	-184.4	6760.37	-182.48	6760.32	-180.32	6760.28
-179.24	6760.29	-177.09	6760.34	-174.82	6760.4	-173.85	6760.44	-172.95	6760.46
-172.77	6760.48	-169.53	6760.51	-167.34	6760.51	-164.35	6760.62	-162.66	6760.5
-161.72	6760.45	-160.9	6760.39	-159.33	6760.3	-158.91	6760.29	-157.33	6760.29
-156.58	6760.28	-154.32	6760.41	-150.11	6760.41	-149.55	6760.4	-145.79	6760.4
-144.87	6760.41	-143.63	6760.41	-143.29	6760.42	-140.39	6760.44	-139.26	6760.44
-135	6760.3	-133.64	6760.29	-130.26	6760.24	-129.6	6760.24	-127.44	6760.15
-124.28	6760	-122.41	6759.95	-122.05	6759.95	-119.89	6759.89	-118.23	6759.85
-114.92	6759.71	-114.22	6759.69	-111.26	6759.82	-109.21	6759.92	-108.02	6760.03
-107.43	6760.04	-106.2	6760.11	-104.19	6760.19	-103.19	6760.16	-102.75	6760.19
-102.62	6760.15	-101.54	6760.2	-100.18	6760.25	-99.94	6760.27	-98.07	6760.34
-93.39	6760.49	-92.45	6760.53	-91.83	6760.58	-91.52	6760.58	-89.67	6760.73
-89.16	6760.78	-86.44	6760.86	-85.36	6760.9	-84.03	6760.93	-81.22	6760.81
-81.04	6760.81	-79.13	6760.65	-75.64	6760.65	-75.6	6760.61	-75.12	6760.61
-73.49	6760.51	-71.11	6760.34	-70.92	6760.35	-70.25	6760.28	-69.05	6760.3
-65.31	6760.1	-64.85	6760.08	-64.37	6760.11	-63.09	6760.05	-62.09	6760.02
-60.08	6759.94	-59.08	6759.89	-58.38	6760.01	-56.88	6760.29	-55.15	6760.6
-54.08	6760.8	-49.78	6760.44	-49.06	6760.37	-48.71	6760.29	-48.42	6760.17
-48.06	6760.09	-46.55	6759.61	-45.97	6759.43	-44.05	6758.84	-42.79	6758.65
-42.04	6758.55	-40.12	6758.27	-39.04	6758.13	-38.09	6757.92	-37.15	6757.75
-36.03	6757.53	-34.03	6757.16	-33.47	6757.16	-31.53	6757.21	-29.38	6757.27
-29.01	6757.27	-27.23	6757.34	-26.01	6757.36	-23.94	6757.42	-20.97	6757.48
-20.24	6757.5	-19.3	6757.53	-16.49	6757.59	-13.98	6757.7	-11.12	6757.76
-8.95	6757.83	-7.09	6758.14	-5.96	6758.32	-3.96	6758.66	-1.95	6758.77
-5.51	6758.83	1.05	6758.88	4.18	6759.35	4.99	6759.46	6.05	6759.67
9.29	6760.52	11.08	6760.98	13.08	6760.87	15.46	6760.72	16.09	6760.69
16.81	6760.75	19.09	6760.97	21.09	6761.15	22.97	6760.99	23.91	6760.9
25.11	6760.8	25.4	6760.8	25.79	6760.74	26.11	6760.74	28.11	6760.65

30.49	6760.55	30.77	6760.63	31.12	6760.61	32.37	6760.49	35.19	6760.2
36.14	6760.37	39.14	6760.63	39.36	6760.59	39.88	6760.7	41.14	6760.46
42.14	6760.51	44.58	6760.66	44.73	6760.63	45.15	6760.66	46.15	6760.66
47.16	6760.6	47.4	6760.62	47.95	6760.55	49.28	6760.67	51.03	6760.84
52.1	6760.89	53.97	6760.95	56.54	6761.28	58.67	6761.54	61.19	6761.93
63.37	6762.01	64.06	6762.22	64.19	6762.23	66.21	6762.75	67.28	6762.82
68.07	6762.89	71.21	6762.59	71.82	6762.51	72.65	6762.37	72.76	6762.38
74.22	6762.1	74.64	6762.01	76.22	6761.71	77.46	6761.82	78.03	6761.81
78.23	6761.83	81.25	6761.86	82.16	6761.83	83.1	6761.84	86.24	6761.9
89.67	6761.85	90.91	6761.84	92.49	6761.84	93.06	6761.83	96.28	6761.83
98.43	6761.89	99.51	6761.91	102.28	6761.98	103.76	6761.99	105.29	6761.99
106.29	6762	107.02	6762.02	111.01	6762.22	112.22	6762.26	114.31	6762.29
115.98	6762.32	117.31	6762.36	118.31	6762.4	120.32	6762.45	121.61	6762.49
123.13	6762.51	124.43	6762.55	126.36	6762.62	128.5	6762.65	131.01	6762.7
131.34	6762.7	133.35	6762.79	135.71	6762.91	136.35	6762.95	137.58	6762.96
143.22	6763.02	144.16	6763.04	146.38	6763.06	148.38	6763.13	150.39	6763.21
151.39	6763.27	152.62	6763.4	153.21	6763.45	155.43	6763.68	156.37	6763.83
158.25	6764.02	160.72	6764.28	161.41	6764.32	162.41	6764.48	164.42	6764.78
164.83	6764.85	166.42	6765.09	167.65	6765.34	168.24	6765.47	170.47	6765.92
171.47	6766.13	173.61	6766.71	176.44	6767.46	177.45	6767.77	179.86	6768.53
179.93	6768.53								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-562.16	.05	-46.55	.04	6.05	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	-46.55	6.05		112.11	112.11		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
11.08	179.93	6761	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4571.82

INPUT

Description: Bridge Cross Section 4

Station Elevation Data		num= 158							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
37.67	6762.81	85.67	6762.71	184.67	6763.04	234.67	6762.95	271.16	6763.23
319.75	6762.86	371.59	6763.11	451.43	6762.91	463.97	6762.88	502.54	6762.42
528.55	6762.07	543.28	6761.77	553.61	6761.53	554.68	6761.5	555.89	6761.37
557.77	6761.15	558.72	6761.02	559.83	6760.77	561.1	6760.46	563.43	6759.91
564.31	6759.66	565.31	6759.46	565.38	6759.4	566.85	6759.14	567.52	6759.19
570.73	6759.25	571.86	6759.45	572.71	6759.31	576.08	6758.73	576.62	6758.68
580.88	6758	581.33	6757.88	581.43	6757.91	581.88	6757.8	582.27	6757.62
582.5	6757.24	582.88	6757.05	583.21	6757.01	583.57	6757.08	583.88	6757.04
584.16	6757.1	584.64	6757.27	586.89	6757.81	588.92	6758.01	592.13	6758.35
594.9	6758.53	596.91	6758.65	597.35	6758.69	597.48	6758.65	598.29	6758.72
602.06	6759.01	602.83	6758.95	606.04	6758.89	607.71	6758.84	609.6	6758.76
611.94	6758.7	613.52	6758.77	616.73	6758.89	618.08	6758.92	618.87	6758.92
621.85	6759.16	624.22	6759.17	626.97	6759.11	629.57	6759.11	631.27	6759.21
633.15	6759.29	633.85	6759.33	635.89	6759.41	638.99	6759.56	640.27	6759.61
642	6759.63	644.46	6759.76	645.62	6759.83	647.01	6759.87	648.23	6759.84
652.04	6759.8	654.18	6759.99	656.32	6760.19	657.39	6760.22	657.65	6760.06
658.46	6760.08	658.59	6760.05	661.04	6760.1	661.42	6760.23	661.67	6760.11
662.04	6760.23	663.81	6759.89	667.02	6759.29	672.06	6759.52	674.06	6759.32
676.5	6759.11	677.44	6758.99	677.72	6759.15	679.32	6758.92	681.21	6758.66
681.31	6758.65	682.22	6758.57	683.64	6758.67	683.67	6758.71	684.18	6758.74
687.28	6759.09	688.6	6758.64	690.74	6757.92	691.01	6757.99	691.43	6757.82
692.46	6757.66	693.45	6757.25	693.73	6757.24	694.21	6757.22	695.39	6757.37
696.6	6757.32	698.56	6757.26	700.73	6757.23	703.63	6757.31	704.11	6757.33
706.24	6757.34	710.03	6757.34	711.61	6757.38	713.6	6757.42	714.76	6757.44
715.98	6757.47	717.4	6757.53	719.72	6757.6	721.86	6757.69	723.46	6758.17
725.33	6759.08	727.77	6760.25	730.45	6760.84	732.5	6761.28	732.63	6761.34
733.69	6761.39	736.05	6761.43	736.98	6761.43	739.15	6761.47	740.31	6761.45
748.04	6761.26	749.67	6761.23	750.75	6761.19	752.2	6761.16	754.98	6761.05
757.15	6761.1	760.9	6761.1	763.07	6761.04	765.25	6761.06	765.97	6761.09

767.33	6761.09	768.87	6761.15	770.26	6761.16	773.22	6761.26	776.12	6761.34
777.57	6761.36	778.64	6761.39	781.01	6761.42	783.36	6761.3	784.56	6761.23
786.27	6761.15	787.1	6761.1	787.52	6761.1				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
37.67	.05	687.28	.04	725.33	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	687.28	725.33		307.12 307.12	307.12		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
766.76	821.51	6761.4	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4262.82

INPUT

Description: Bridge Cross Section 3

Station Elevation Data		num= 325							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-12.27	6760.05	-11.87	6760.05	-11.72	6760.04	-11.3	6760.04	-10.95	6760.04
-10.6	6760.03	-10.29	6760.03	-10.04	6760.03	-9.49	6760.02	-9.29	6760.02
-9.13	6760.02	-8.37	6760.01	-8.28	6760.01	-8.21	6760.01	-7.5	6760.02
-7.3	6760.02	-7.28	6760.02	-7.25	6760.02	-6.38	6760.03	-6.27	6760.03
-6.14	6760.03	-5.47	6760.02	-5.27	6760.02	-5.02	6760.02	-4.56	6760.02
-4.26	6760.02	-3.91	6760.02	-3.64	6760.02	-3.26	6760.01	-2.79	6760.02
-2.73	6760.03	-2.25	6760.04	-1.81	6760.05	-1.67	6760.05	-1.25	6760.06
-.9	6760.07	-.56	6760.07	-.24	6760.08	.01	6760.08	.56	6760.09
.76	6760.1	.93	6760.1	1.67	6760.11	1.77	6760.11	1.84	6760.11
2.61	6760.11	2.76	6760.1	2.77	6760.1	2.79	6760.1	3.67	6760.09
3.78	6760.09	3.9	6760.09	4.58	6760.08	4.78	6760.08	5.02	6760.08
5.5	6760.06	5.79	6760.06	6.14	6760.05	6.4	6760.05	6.73	6760.03
7.97	6760.07	8.11	6760.07	11.02	6760.01	11.48	6760.02	14.07	6760.07
14.84	6760.05	17.12	6760.01	18.22	6760.03	20.16	6760.01	21.78	6760.07
23.22	6760.11	24.95	6760.08	26.26	6760.04	28.32	6759.97	29.31	6759.94
31.69	6759.83	32.35	6759.82	35.06	6759.66	35.4	6759.63	38.43	6759.47
38.63	6759.47	41.25	6759.4	41.5	6759.4	41.8	6759.41	44.54	6759.46
45.17	6759.45	47.59	6759.38	48.54	6759.42	50.64	6759.48	52.38	6759.44
53.69	6759.4	55.15	6759.4	56.74	6759.41	57.05	6759.42	58.45	6759.46
61.58	6759.51	62.86	6759.52	66.63	6759.53	67.26	6759.54	71.5	6759.6
71.69	6759.61	71.72	6759.61	76.74	6759.62	77.65	6759.63	81.8	6759.63
83.58	6759.61	86.85	6759.64	89.51	6759.61	91.9	6759.56	95.44	6759.58
96.96	6759.55	101.37	6759.57	102.01	6759.57	105.74	6759.64	107	6759.74
107.07	6759.75	109.57	6759.54	109.59	6759.55	109.68	6759.55	112.04	6760
112.12	6760.01	113.23	6760.06	117.11	6760.3	117.18	6760.3	119.15	6759.55
122.23	6759.67	125.08	6759.79	127.28	6759.81	128.92	6759.8	132.34	6759.75
136.94	6759.67	137.39	6759.66	139.99	6759.72	142.34	6760	142.45	6759.99
142.87	6759.99	147.48	6760.09	147.5	6760.09	148.8	6759.48	152.55	6759.57
154.73	6759.66	157.61	6759.73	160.66	6759.73	162.66	6759.72	166.59	6759.86
167.72	6759.9	172.52	6759.83	172.77	6759.82	174.24	6759.78	177.83	6759.67
178.45	6759.67	182.88	6759.69	184.38	6759.71	187.93	6759.79	190.3	6759.77
192.92	6759.76	192.99	6759.76	195.62	6759.71	197.99	6759.69	200.45	6759.75
202.99	6759.77	205.28	6759.71	208	6759.6	210.11	6759.56	213	6759.57
214.94	6759.63	218	6759.72	219.77	6759.7	223.01	6759.73	224.6	6759.74
228.01	6759.73	229.44	6759.7	233.01	6759.58	234.27	6759.48	238.02	6759.25
238.48	6760.01	239.1	6760.43	240.53	6761.42	242.18	6762.56	242.32	6762.55
242.6	6762.55	242.82	6762.54	248.31	6762.7	258.28	6762.55	264.88	6762.45
265.37	6762.43	266.28	6762.39	267.43	6762.39	269.03	6762.27	274.52	6762.08
282.34	6761.61	285.68	6761.3	289.12	6761.13	294.19	6760.67	304.28	6759.49
304.29	6759.49	304.42	6759.47	304.94	6759.42	306.73	6759.51	306.95	6759.52
306.96	6759.52	307.49	6759.57	308.06	6759.58	309.49	6759.52	313.06	6759.17
316.39	6759	318.07	6758.9	321.22	6758.73	323.07	6758.56	326.05	6758.42
328.07	6758.34	330.88	6758.26	333.08	6758.36	335.71	6758.51	338.08	6758.57
340.55	6758.67	343.08	6758.78	345.38	6758.83	348.09	6758.73	350.21	6758.54
353.09	6758.23	355.04	6758.09	358.09	6758.06	359.87	6758.05	363.1	6758.32
364.7	6758.35	368.1	6758.3	369.53	6758.33	373.1	6758.27	374.36	6758.35
378.11	6758.52	379.19	6758.63	383.11	6759.08	384.02	6759.18	385.48	6759.26

388.11	6759.4	389.02	6759.43	393.11	6759.63	394.08	6759.67	398.11	6759.69
402.05	6759.46	403.11	6759.35	406.99	6759.06	407.84	6758.94	408.16	6758.6
408.28	6758.54	410.29	6757.46	412.45	6755.11	421.27	6754.59	430.18	6754.54
435.71	6754.94	442.23	6755.42	445.49	6756.34	447.1	6757.16	447.55	6757.68
447.57	6757.7	448.11	6757.84	449.76	6758.02	453.12	6758.52	454.82	6758.64
458.12	6759.01	459.89	6759.05	463.12	6759.15	464.95	6759.25	468.12	6759.33
470.01	6759.27	473.12	6759.33	475.07	6759.23	478.12	6759.07	480.13	6758.94
483.12	6758.74	485.2	6758.55	488.12	6758.33	490.97	6758.36	493.12	6758.41
495.32	6758.65	498.12	6758.81	500.38	6758.89	503.12	6758.96	505.45	6758.94
508.12	6758.95	510.51	6759.03	513.12	6759.1	515.57	6758.94	518.12	6758.89
520.63	6758.91	523.12	6758.93	525.69	6758.91	528.12	6758.81	530.76	6758.88
533.12	6758.99	535.82	6759.06	538.12	6759.21	540.88	6759.4	543.12	6759.5
545.94	6759.59	548.12	6759.61	551	6759.52	553.12	6759.51	553.19	6759.51
555.94	6759.42	558.13	6759.27	558.28	6759.26	560.78	6759.05	563.13	6758.82
565.62	6758.82	568.13	6758.9	570.46	6759.04	573.13	6759.25	575.3	6759.31
578.14	6759.46	581.17	6759.58	583.14	6759.61	584.98	6759.66	588.14	6759.74
589.82	6759.73	593.15	6759.86	593.88	6759.96	593.88	6760.18	596.49	6760.47
597.27	6760.51	597.27	6761.36	599.44	6761.81	601.83	6761.8	648.27	6760.69

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-12.27	.05	406.99	.04	458.12	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

406.99	458.12	84.42	84.42	84.42	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
6.4	419.34	6762	F
596.84	648.27	6762	F

BRIDGE

RIVER: Walton Creek
 REACH: lower-main split RS: 4220.82

INPUT

Description: Future Stone Lane
 Distance from Upstream XS = 19.5
 Deck/Roadway Width = 45
 Weir Coefficient = 2.6
 Upstream Deck/Roadway Coordinates

num=	15	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-9.49	6762.75	5.64	6762.69	30.64	6762.44											
55.64	6762.19	80.64	6762	155.52	6761.99											
205.51	6761.96	239.23	6762	330.6	6763.52											
354.23	6764	387.67	6764.35	419.34	6764.44	6760.92										
575	6764.86	6760.92	729.34	6764.44	6760.92											
							765	6764.35								

Upstream Bridge Cross Section Data

Station	Elevation	Data	num=	325	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-12.27	6760.05	-11.87	6760.05	-11.72	6760.04	-11.3	6760.04	-10.95	6760.04					
-10.6	6760.03	-10.29	6760.03	-10.04	6760.03	-9.49	6760.02	-9.29	6760.02					
-9.13	6760.02	-8.37	6760.01	-8.28	6760.01	-8.21	6760.01	-7.5	6760.02					
-7.3	6760.02	-7.28	6760.02	-7.25	6760.02	-6.38	6760.03	-6.27	6760.03					
-6.14	6760.03	-5.47	6760.02	-5.27	6760.02	-5.02	6760.02	-4.56	6760.02					
-4.26	6760.02	-3.91	6760.02	-3.64	6760.02	-3.26	6760.01	-2.79	6760.02					
-2.73	6760.03	-2.25	6760.04	-1.81	6760.05	-1.67	6760.05	-1.25	6760.06					
-.9	6760.07	-.56	6760.07	-.24	6760.08	.01	6760.08	.56	6760.09					
.76	6760.1	.93	6760.1	1.67	6760.11	1.77	6760.11	1.84	6760.11					
2.61	6760.11	2.76	6760.1	2.77	6760.1	2.79	6760.1	3.67	6760.09					
3.78	6760.09	3.9	6760.09	4.58	6760.08	4.78	6760.08	5.02	6760.08					
5.5	6760.06	5.79	6760.06	6.14	6760.05	6.4	6760.05	6.73	6760.03					
7.97	6760.07	8.11	6760.07	11.02	6760.01	11.48	6760.02	14.07	6760.07					
14.84	6760.05	17.12	6760.01	18.22	6760.03	20.16	6760.01	21.78	6760.07					
23.22	6760.11	24.95	6760.08	26.26	6760.04	28.32	6759.97	29.31	6759.94					
31.69	6759.83	32.35	6759.82	35.06	6759.66	35.4	6759.63	38.43	6759.47					
38.63	6759.47	41.25	6759.4	41.5	6759.4	41.8	6759.41	44.54	6759.46					
45.17	6759.45	47.59	6759.38	48.54	6759.42	50.64	6759.48	52.38	6759.44					

53.69	6759.4	55.15	6759.4	56.74	6759.41	57.05	6759.42	58.45	6759.46
61.58	6759.51	62.86	6759.52	66.63	6759.53	67.26	6759.54	71.5	6759.6
71.69	6759.61	71.72	6759.61	76.74	6759.62	77.65	6759.63	81.8	6759.63
83.58	6759.61	86.85	6759.64	89.51	6759.61	91.9	6759.56	95.44	6759.58
96.96	6759.55	101.37	6759.57	102.01	6759.57	105.74	6759.64	107	6759.74
107.07	6759.75	109.57	6759.54	109.59	6759.55	109.68	6759.55	112.04	6760
112.12	6760.01	113.23	6760.06	117.11	6760.3	117.18	6760.3	119.15	6759.55
122.23	6759.67	125.08	6759.79	127.28	6759.81	128.92	6759.8	132.34	6759.75
136.94	6759.67	137.39	6759.66	139.99	6759.72	142.34	6760	142.45	6759.99
142.87	6759.99	147.48	6760.09	147.5	6760.09	148.8	6759.48	152.55	6759.57
154.73	6759.66	157.61	6759.73	160.66	6759.73	162.66	6759.72	166.59	6759.86
167.72	6759.9	172.52	6759.83	172.77	6759.82	174.24	6759.78	177.83	6759.67
178.45	6759.67	182.88	6759.69	184.38	6759.71	187.93	6759.79	190.3	6759.77
192.92	6759.76	192.99	6759.76	195.62	6759.71	197.99	6759.69	200.45	6759.75
202.99	6759.77	205.28	6759.71	208	6759.6	210.11	6759.56	213	6759.57
214.94	6759.63	218	6759.72	219.77	6759.7	223.01	6759.73	224.6	6759.74
228.01	6759.73	229.44	6759.7	233.01	6759.58	234.27	6759.48	238.02	6759.25
238.48	6760.01	239.1	6760.43	240.53	6761.42	242.18	6762.56	242.32	6762.55
242.6	6762.55	242.82	6762.54	248.31	6762.7	258.28	6762.55	264.88	6762.45
265.37	6762.43	266.28	6762.39	267.43	6762.39	269.03	6762.27	274.52	6762.08
282.34	6761.61	285.68	6761.3	289.12	6761.13	294.19	6760.67	304.28	6759.49
304.29	6759.49	304.42	6759.47	304.94	6759.42	306.73	6759.51	306.95	6759.52
306.96	6759.52	307.49	6759.57	308.06	6759.58	309.49	6759.52	313.06	6759.17
316.39	6759.52	318.07	6758.9	321.22	6758.73	323.07	6758.56	326.05	6758.42
328.07	6758.34	330.88	6758.26	333.08	6758.36	335.71	6758.51	338.08	6758.57
340.55	6758.67	343.08	6758.78	345.38	6758.83	348.09	6758.73	350.21	6758.54
353.09	6758.23	355.04	6758.09	358.09	6758.06	359.87	6758.05	363.1	6758.32
364.7	6758.35	368.1	6758.3	369.53	6758.33	373.1	6758.27	374.36	6758.35
378.11	6758.52	379.19	6758.63	383.11	6759.08	384.02	6759.18	385.48	6759.26
388.11	6759.4	389.02	6759.43	393.11	6759.63	394.08	6759.67	398.11	6759.69
402.05	6759.46	403.11	6759.35	406.99	6759.06	407.84	6758.94	408.16	6758.6
408.28	6758.54	410.29	6757.46	412.45	6755.11	421.27	6754.59	430.18	6754.54
435.71	6754.94	442.23	6755.42	445.49	6756.34	447.1	6757.16	447.55	6757.68
447.57	6757.7	448.11	6757.84	449.76	6758.02	453.12	6758.52	454.82	6758.64
458.12	6759.01	459.89	6759.05	463.12	6759.15	464.95	6759.25	468.12	6759.33
470.01	6759.27	473.12	6759.33	475.07	6759.23	478.12	6759.07	480.13	6758.94
483.12	6758.74	485.2	6758.55	488.12	6758.33	490.97	6758.36	493.12	6758.41
495.32	6758.65	498.12	6758.81	500.38	6758.89	503.12	6758.96	505.45	6758.94
508.12	6758.95	510.51	6759.03	513.12	6759.1	515.57	6758.94	518.12	6758.89
520.63	6758.91	523.12	6758.93	525.69	6758.91	528.12	6758.81	530.76	6758.88
533.12	6758.99	535.82	6759.06	538.12	6759.21	540.88	6759.4	543.12	6759.5
545.94	6759.59	548.12	6759.61	551	6759.52	553.12	6759.51	553.19	6759.51
555.94	6759.42	558.13	6759.27	558.28	6759.26	560.78	6759.05	563.13	6758.82
565.62	6758.82	568.13	6758.9	570.46	6759.04	573.13	6759.25	575.3	6759.31
578.14	6759.46	581.17	6759.58	583.14	6759.61	584.98	6759.66	588.14	6759.74
589.82	6759.73	593.15	6759.86	593.88	6759.96	593.88	6760.18	596.49	6760.47
597.27	6760.51	597.27	6761.36	599.44	6761.81	601.83	6761.8	648.27	6760.69

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-12.27	.05	406.99	.04	458.12	.05

Bank Sta: Left Right Coeff Contr. Expan.

406.99	458.12	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
6.4	419.34	6762	F
596.84	648.27	6762	F

Downstream Deck/Roadway Coordinates num= 15

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
-9.49	6762.75		5.64	6762.69		30.64	6762.44	
55.64	6762.19		80.64	6762		155.52	6761.99	
205.51	6761.96		239.23	6762		330.6	6763.52	
354.23	6764		387.67	6764.35		419.34	6764.44	6760.92
575	6764.86	6760.92	729.34	6764.44	6760.92	765	6764.35	

Downstream Bridge Cross Section Data

Station Elevation Data num= 491

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev

164.02	6760.81	164.86	6760.81	166.9	6760.77	167.66	6760.74	169.79	6760.69
172.01	6760.65	172.82	6760.65	173.83	6760.63	177.4	6760.63	178.72	6760.6
180.78	6760.57	182.47	6760.57	183.15	6760.58	184.27	6760.58	185.73	6760.6
187.03	6760.6	187.33	6760.61	188.36	6760.61	188.38	6760.62	189.61	6760.62
190.07	6760.63	191.42	6760.64	192.44	6760.64	192.61	6760.65	194.49	6760.65
195.51	6760.66	196.06	6760.68	196.53	6760.68	199.59	6760.78	200.21	6760.81
201.06	6760.83	202.52	6760.89	204.7	6760.96	205.72	6761	207.68	6761.06
208.97	6761.11	210.27	6761.15	210.36	6761.14	211.85	6761.17	212.97	6761.18
213.74	6761.2	214.92	6761.21	215.94	6761.23	217.12	6761.24	218.01	6761.26
219.3	6761.31	220.02	6761.35	221.89	6761.42	224.11	6761.52	224.72	6761.54
226.15	6761.61	227.05	6761.61	228.34	6761.7	228.95	6761.72	230.64	6761.8
232.21	6761.86	232.54	6761.88	233.72	6761.9	235.95	6761.9	236.35	6761.89
241.43	6761.89	241.87	6761.88	253.01	6761.88	253.19	6761.87	257.69	6761.87
257.96	6761.88	260.08	6761.88	260.43	6761.89	261.8	6761.89	262.1	6761.9
263.78	6761.9	264.15	6761.91	266.11	6761.91	266.62	6761.92	272.14	6761.92
272.81	6761.93	275.59	6761.93	275.97	6761.94	276.99	6761.94	279.9	6761.97
281.05	6761.97	282.48	6761.99	284.8	6762	285.07	6762.01	286.79	6762.02
288.89	6762.07	290.13	6762.09	291.37	6762.13	293.68	6762.18	293.84	6762.19
296.29	6762.25	297.31	6762.25	299.72	6762.28	301.83	6762.29	303.16	6762.31
304.42	6762.32	305.43	6762.32	305.75	6762.33	310.06	6762.33	311.78	6762.37
312.64	6762.38	313.56	6762.41	314.88	6762.43	319.83	6762.55	322.12	6762.6
322.98	6762.61	324.7	6762.66	325.75	6762.67	328.15	6762.62	328.49	6762.62
329.73	6762.59	330.97	6762.58	331.6	6762.56	331.85	6762.57	332.86	6762.65
333.88	6762.79	335.91	6762.76	337.63	6762.72	337.94	6762.72	339.35	6762.69
340.86	6762.67	341.56	6762.65	342.1	6762.65	343.02	6762.63	343.66	6762.63
345.81	6762.6	346.24	6762.6	350.76	6762.55	352.91	6762.55	353.14	6762.56
354.48	6762.56	354.86	6762.57	356.23	6762.57	359.43	6762.62	360.03	6762.64
361.31	6762.66	361.75	6762.66	362.62	6762.68	365.2	6762.71	366.39	6762.72
367.4	6762.74	368.09	6762.74	369.32	6762.76	369.93	6762.76	371.23	6762.78
372.48	6762.79	373.82	6762.79	374.27	6762.8	375.61	6762.8	376.4	6762.81
378.13	6762.81	378.58	6762.82	379.85	6762.82	381.57	6762.84	382.43	6762.84
383.66	6762.86	384.67	6762.86	385.88	6762.88	386.74	6762.88	390.62	6762.92
390.71	6762.93	393.85	6762.96	396.54	6762.99	397.53	6763.02	397.9	6763.02
398.91	6763.05	401.95	6763.11	402.97	6763.14	403.71	6763.14	405.43	6763.17
406.01	6763.17	407.02	6763.19	408.39	6763.2	410.36	6763.26	410.71	6763.28
411.71	6763.31	412.34	6763.34	413.1	6763.36	413.71	6763.39	415.3	6763.44
416.14	6763.48	417.16	6763.51	418.17	6763.55	418.26	6763.54	419.18	6763.57
419.25	6763.56	420.2	6763.58	420.71	6763.58	423.19	6763.63	423.72	6763.63
424.25	6763.6	427.14	6763.48	428.3	6763.42	428.72	6763.41	430.1	6763.34
431.09	6763.28	432.08	6763.21	432.36	6763.15	432.72	6763.13	433.72	6762.98
434.05	6762.91	435.4	6762.65	435.72	6762.58	436.72	6762.39	438	6762.13
439.45	6761.85	439.72	6761.79	440.72	6761.6	441.95	6761.4	442.49	6761.32
443.92	6761.09	444.72	6760.97	446.72	6760.65	446.89	6760.63	448.86	6760.31
450.6	6760.04	452.62	6759.7	453.64	6759.48	455.66	6759	455.77	6759.01
456.68	6759.27	457.69	6759.29	458.73	6759.29	460.71	6759.23	461.75	6759.21
462.76	6759.25	464.65	6759.35	466.81	6759.44	468.84	6759.46	470.58	6759.44
470.87	6759.43	473.72	6759.4	474.72	6759.36	475.93	6759.3	476.95	6759.26
477.96	6759.23	479.72	6759.19	480.45	6759.18	481	6759.16	481.72	6759.15
482.72	6759.15	483.03	6759.14	484.04	6759.14	484.4	6759.1	484.72	6759.1
485.38	6759.05	486.72	6758.97	488.09	6758.93	489.11	6758.89	489.33	6758.86
490.12	6758.83	491.72	6758.72	493.16	6758.55	494.17	6758.42	494.27	6758.42
495.19	6758.32	496.2	6758.22	496.72	6758.16	498.22	6757.95	498.72	6757.87
499.2	6757.83	499.24	6757.8	500.25	6757.71	501.72	6757.57	503.15	6757.47
503.29	6757.45	505.13	6757.32	506.72	6757.19	508.36	6757.26	509.07	6757.28
509.38	6757.23	509.72	6757.25	510.72	6757.19	511.72	6757.14	513.02	6757.12
513.72	6757.1	514.01	6757.11	514.44	6757.09	515.46	6757.1	516.47	6757.1
516.97	6757.12	518.94	6757.22	519.51	6757.26	520.52	6757.29	521.72	6757.34
522.89	6757.31	523.88	6757.3	524.58	6757.28	527.62	6757.31	528.63	6757.33
528.82	6757.32	529.64	6757.34	531.78	6757.27	532.76	6757.33	533.7	6757.37
534.71	6757.43	536.74	6757.39	538.69	6757.27	539.78	6757.19	541.65	6757.09
542.64	6757	543.83	6756.88	544.84	6756.79	545.73	6756.78	546.73	6756.78
546.87	6756.77	549.91	6756.64	551.73	6756.64	551.94	6756.63	553.73	6756.63
554.73	6756.61	555.47	6756.61	556.73	6756.59	558.02	6756.71	560.05	6756.89
560.4	6756.84	560.73	6756.87	561.73	6756.85	562.07	6756.82	564.1	6756.7
565.11	6756.63	565.34	6756.67	565.73	6756.65	566.13	6756.72	566.33	6756.85
566.73	6756.92	567.14	6756.85	567.31	6756.51	567.72	6756.44	568.15	6756.25
568.3	6756.29	568.72	6756.09	569.16	6755.99	569.28	6755.99	569.72	6755.88
570.18	6755.81	572.84	6755.37	573.23	6755.3	576.26	6754.81	577.18	6754.65
579.16	6754.33	579.73	6754.23	581.13	6754.05	582.34	6753.93	582.73	6753.88
583.1	6753.88	583.35	6753.82	583.73	6753.81	584.09	6753.86	584.36	6753.83
585.08	6753.91	585.38	6753.96	587.05	6754.11	587.73	6754.16	588.42	6754.23

589.43	6754.31	590.01	6754.37	592.73	6754.6	596.53	6754.94	597.84	6755.06
598.73	6755.14	600.58	6755.54	601.73	6755.8	601.86	6755.84	603.83	6756.34
604.82	6756.6	606.79	6757.1	607.67	6757.33	608.77	6757.65	609.7	6758.06
610.71	6758.12	611.73	6758.13	615.68	6757.89	616.79	6757.85	618.64	6757.83
618.73	6757.82	620.85	6757.8	621.6	6757.71	621.86	6757.7	624.56	6757.65
625.73	6757.62	629.5	6757.62	629.73	6757.63	630.98	6757.63	631.47	6757.69
631.73	6757.69	633.01	6757.77	635.42	6757.94	636.05	6757.98	637.06	6758.08
638.73	6758.23	639.73	6758.33	640.36	6758.38	641.12	6758.46	641.34	6758.45
642.13	6758.49	642.33	6758.47	644.16	6758.5	644.73	6758.5	646.73	6758.53
649.73	6758.53	650.23	6758.54	651.73	6758.54	653.19	6758.5	654.18	6758.46
654.73	6758.45	655.73	6758.41	656.73	6758.39	658.34	6758.44	660.37	6758.52
661.73	6758.56	663.06	6758.56	663.41	6758.55	664.73	6758.55	665.73	6758.54
666.02	6758.52	666.45	6758.54	666.73	6758.52	668.73	6758.57	669.97	6758.59
671.73	6758.64	672.93	6758.64	674.56	6758.66	676.73	6758.67	678.85	6758.47
680.64	6758.29	681.81	6758.19	684.69	6758.13	684.78	6758.12	686.75	6758.08
687.93	6757.95	688.75	6757.85	690.77	6757.62	691.79	6757.51	696.85	6757.31
697.87	6757.33	699.89	6757.39	700.57	6757.4	701.92	6757.44	704.96	6757.51
706.74	6757.56	707.48	6757.49	708	6757.46	709.01	6757.38	709.74	6757.31
711.74	6757.14	712.05	6757.1	715.23	6756.81	716.74	6756.68	719.93	6756.68
720.58	6756.69	721.74	6756.69	721.86	6756.7	723.69	6757.1	724.73	6757.32
725.15	6757.42	726.69	6757.75	727.84	6758.02	728.62	6758.19	729.75	6758.45
730.96	6758.74	731.75	6758.92	732	6758.95	732.48	6759.05	732.75	6759.08
735.38	6759.54	736.75	6759.79	738.23	6759.78	741.17	6759.78	741.34	6759.86
741.75	6759.86	744.45	6760.64	744.76	6760.72	746	6761.08	746.53	6761.05
746.76	6761.12	747.93	6761.22	751.8	6761.58	756.76	6761.84	756.91	6761.81
758.56	6761.56	759.52	6761.4	760.03	6761.36	760.49	6761.25	761.77	6761.21
763.14	6760.9	764.77	6760.54	765.22	6760.52	765.32	6760.42	766.77	6760.35
768.69	6760.33								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
164.02	.05	567.31	.04	604.82	.05

Bank Sta: Left Right Coeff Contr. Expan.

567.31	604.82	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
164.02	419.34	6762	F
729.34	768.69	6762	F

Upstream Embankment side slope = 1 horiz. to 1.0 vertical
Downstream Embankment side slope = 1 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins = 6762
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 5

Pier Data

Pier Station	Upstream=	Downstream=
469.34	469.34	

Upstream num= 2

Width	Elev	Width	Elev
3	6756	3	6760.92

Downstream num= 2

Width	Elev	Width	Elev
3	6756	3	6760.92

Pier Data

Pier Station	Upstream=	Downstream=
519.34	519.34	

Upstream num= 2

Width	Elev	Width	Elev
3	6756	3	6760.92

Downstream num= 2

Width	Elev	Width	Elev
3	6756	3	6760.92

Pier Data

Pier Station	Upstream=	Downstream=
579.34	579.34	

Upstream num= 2

Station	Elevation	Data	num=	491							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
164.02	6760.81	164.86	6760.81	166.9	6760.77	167.66	6760.74	169.79	6760.69		
172.01	6760.65	172.82	6760.65	173.83	6760.63	177.4	6760.63	178.72	6760.6		
180.78	6760.57	182.47	6760.57	183.15	6760.58	184.27	6760.58	185.73	6760.6		
187.03	6760.6	187.33	6760.61	188.36	6760.61	188.38	6760.62	189.61	6760.62		
190.07	6760.63	191.42	6760.64	192.44	6760.64	192.61	6760.65	194.49	6760.65		
195.51	6760.66	196.06	6760.68	196.53	6760.68	199.59	6760.78	200.21	6760.81		
201.06	6760.83	202.52	6760.89	204.7	6760.96	205.72	6761	207.68	6761.06		
208.97	6761.11	210.27	6761.15	210.36	6761.14	211.85	6761.17	212.97	6761.18		
213.74	6761.2	214.92	6761.21	215.94	6761.23	217.12	6761.24	218.01	6761.26		
219.3	6761.31	220.02	6761.35	221.89	6761.42	224.11	6761.52	224.72	6761.54		
226.15	6761.61	227.05	6761.64	228.34	6761.7	228.95	6761.72	230.64	6761.8		
232.21	6761.86	232.54	6761.88	233.72	6761.9	235.95	6761.9	236.35	6761.89		
241.43	6761.89	241.87	6761.88	253.01	6761.88	253.19	6761.87	257.69	6761.87		
257.96	6761.88	260.08	6761.88	260.43	6761.89	261.8	6761.89	262.1	6761.9		
263.78	6761.9	264.15	6761.91	266.11	6761.91	266.62	6761.92	272.14	6761.92		
272.81	6761.93	275.59	6761.93	275.97	6761.94	276.99	6761.94	279.9	6761.97		
281.05	6761.97	282.48	6761.99	284.8	6762	285.07	6762.01	286.79	6762.02		
288.89	6762.07	290.13	6762.09	291.37	6762.13	293.68	6762.18	293.84	6762.19		
296.29	6762.25	297.31	6762.25	299.72	6762.28	301.83	6762.29	303.16	6762.31		
304.42	6762.32	305.43	6762.32	305.75	6762.33	310.06	6762.33	311.78	6762.37		

312.64	6762.38	313.56	6762.41	314.88	6762.43	319.83	6762.55	322.12	6762.6
322.98	6762.61	324.7	6762.66	325.75	6762.67	328.15	6762.62	328.49	6762.62
329.73	6762.59	330.97	6762.58	331.6	6762.56	331.85	6762.57	332.86	6762.65
333.88	6762.79	335.91	6762.76	337.63	6762.72	337.94	6762.72	339.35	6762.69
340.86	6762.67	341.56	6762.65	342.1	6762.65	343.02	6762.63	343.66	6762.63
345.81	6762.6	346.24	6762.6	350.76	6762.55	352.91	6762.55	353.14	6762.56
354.48	6762.56	354.86	6762.57	356.23	6762.57	359.43	6762.62	360.03	6762.64
361.31	6762.66	361.75	6762.66	362.62	6762.68	365.2	6762.71	366.39	6762.72
367.4	6762.74	368.09	6762.74	369.32	6762.76	369.93	6762.76	371.23	6762.78
372.48	6762.79	373.82	6762.79	374.27	6762.8	375.61	6762.8	376.4	6762.81
378.13	6762.81	378.58	6762.82	379.85	6762.82	381.57	6762.84	382.43	6762.84
383.66	6762.86	384.67	6762.86	385.88	6762.88	386.74	6762.88	390.62	6762.92
390.71	6762.93	393.85	6762.96	396.54	6762.99	397.53	6763.02	397.9	6763.02
398.91	6763.05	401.95	6763.11	402.97	6763.14	403.71	6763.14	405.43	6763.17
406.01	6763.17	407.02	6763.19	408.39	6763.2	410.36	6763.26	410.71	6763.28
411.71	6763.31	412.34	6763.34	413.1	6763.36	413.71	6763.39	415.3	6763.44
416.14	6763.48	417.16	6763.51	418.17	6763.55	418.26	6763.54	419.18	6763.57
419.25	6763.56	420.2	6763.58	420.71	6763.58	423.19	6763.63	423.72	6763.63
424.25	6763.6	427.14	6763.48	428.3	6763.42	428.72	6763.41	430.1	6763.34
431.09	6763.28	432.08	6763.21	432.36	6763.15	432.72	6763.13	433.72	6762.98
434.05	6762.91	435.4	6762.65	435.72	6762.58	436.72	6762.39	438	6762.13
439.45	6761.85	439.72	6761.79	440.72	6761.6	441.95	6761.4	442.49	6761.32
443.92	6761.09	444.72	6760.97	446.72	6760.65	446.89	6760.63	448.86	6760.31
450.6	6760.04	452.62	6759.7	453.64	6759.48	455.66	6759	455.77	6759.01
456.68	6759.27	457.69	6759.29	458.73	6759.29	460.71	6759.23	461.75	6759.21
462.76	6759.25	464.65	6759.35	466.81	6759.44	468.84	6759.46	470.58	6759.44
470.87	6759.43	473.72	6759.4	474.72	6759.36	475.93	6759.3	476.95	6759.26
477.96	6759.23	479.72	6759.19	480.45	6759.18	481	6759.16	481.72	6759.15
482.72	6759.15	483.03	6759.14	484.04	6759.14	484.4	6759.1	484.72	6759.1
485.38	6759.05	486.72	6758.97	488.09	6758.93	489.11	6758.89	489.33	6758.86
490.12	6758.83	491.72	6758.72	493.16	6758.55	494.17	6758.42	494.27	6758.42
495.19	6758.32	496.2	6758.22	496.72	6758.16	498.22	6757.95	498.72	6757.87
499.2	6757.83	499.24	6757.8	500.25	6757.71	501.72	6757.57	503.15	6757.47
503.29	6757.45	505.13	6757.32	506.72	6757.19	508.36	6757.26	509.07	6757.28
509.38	6757.23	509.72	6757.25	510.72	6757.19	511.72	6757.14	513.02	6757.12
513.72	6757.1	514.01	6757.11	514.44	6757.09	515.46	6757.1	516.47	6757.1
516.97	6757.12	518.94	6757.22	519.51	6757.26	520.52	6757.29	521.72	6757.34
522.89	6757.31	523.88	6757.3	524.58	6757.28	527.62	6757.31	528.63	6757.33
528.82	6757.32	529.64	6757.34	531.78	6757.27	532.76	6757.33	533.7	6757.37
534.71	6757.43	536.74	6757.39	538.69	6757.27	539.78	6757.19	541.65	6757.09
542.64	6757	543.83	6756.88	544.84	6756.79	545.73	6756.78	546.73	6756.78
546.87	6756.77	549.91	6756.64	551.73	6756.64	551.94	6756.63	553.73	6756.63
554.73	6756.61	555.47	6756.61	556.73	6756.59	558.02	6756.71	560.05	6756.89
560.4	6756.84	560.73	6756.87	561.73	6756.85	562.07	6756.82	564.1	6756.7
565.11	6756.63	565.34	6756.67	565.73	6756.65	566.13	6756.72	566.33	6756.85
566.73	6756.92	567.14	6756.85	567.31	6756.51	567.72	6756.44	568.15	6756.25
568.3	6756.29	568.72	6756.09	569.16	6755.99	569.28	6755.99	569.72	6755.88
570.18	6755.81	572.84	6755.37	573.23	6755.3	576.26	6754.81	577.18	6754.65
579.16	6754.33	579.73	6754.23	581.13	6754.05	582.34	6753.93	582.73	6753.88
583.1	6753.88	583.35	6753.82	583.73	6753.81	584.09	6753.86	584.36	6753.83
585.08	6753.91	585.38	6753.96	587.05	6754.11	587.73	6754.16	588.42	6754.23
589.43	6754.31	590.01	6754.37	592.73	6754.6	596.53	6754.94	597.84	6755.06
598.73	6755.14	600.58	6755.54	601.73	6755.8	601.86	6755.84	603.83	6756.34
604.82	6756.6	606.79	6757.1	607.67	6757.33	608.77	6757.65	609.7	6758.06
610.71	6758.12	611.73	6758.13	615.68	6757.89	616.79	6757.85	618.64	6757.83
618.73	6757.82	620.85	6757.8	621.6	6757.71	621.86	6757.7	624.56	6757.65
625.73	6757.62	629.5	6757.62	629.73	6757.63	630.98	6757.63	631.47	6757.69
631.73	6757.69	633.01	6757.77	635.42	6757.94	636.05	6757.98	637.06	6758.08
638.73	6758.23	639.73	6758.33	640.36	6758.38	641.12	6758.46	641.34	6758.45
642.13	6758.49	642.33	6758.47	644.16	6758.5	644.73	6758.5	646.73	6758.53
649.73	6758.53	650.23	6758.54	651.73	6758.54	653.19	6758.5	654.18	6758.46
654.73	6758.45	655.73	6758.41	656.73	6758.39	658.34	6758.44	660.37	6758.52
661.73	6758.56	663.06	6758.56	663.41	6758.55	664.73	6758.55	665.73	6758.54
666.02	6758.52	666.45	6758.54	666.73	6758.52	668.73	6758.57	669.97	6758.59
671.73	6758.64	672.93	6758.64	674.56	6758.66	676.73	6758.67	678.85	6758.47
680.64	6758.29	681.81	6758.19	684.69	6758.13	684.78	6758.12	686.75	6758.08
687.93	6757.95	688.75	6757.85	690.77	6757.62	691.79	6757.51	696.85	6757.31
697.87	6757.37	699.89	6757.37	700.57	6757.4	701.92	6757.44	704.96	6757.51
706.74	6757.56	707.48	6757.49	708	6757.46	709.01	6757.38	709.74	6757.31
711.74	6757.14	712.05	6757.1	715.23	6756.81	716.74	6756.68	719.93	6756.68
720.58	6756.69	721.74	6756.69	721.86	6756.7	723.69	6757.1	724.73	6757.32

725.15	6757.42	726.69	6757.75	727.84	6758.02	728.62	6758.19	729.75	6758.45
730.96	6758.74	731.75	6758.92	732	6758.95	732.48	6759.05	732.75	6759.08
735.38	6759.54	736.75	6759.79	738.23	6759.78	741.17	6759.78	741.34	6759.86
741.75	6759.86	744.45	6760.64	744.76	6760.72	746	6761.08	746.53	6761.05
746.76	6761.12	747.93	6761.22	751.8	6761.58	756.76	6761.84	756.91	6761.81
758.56	6761.56	759.52	6761.4	760.03	6761.36	760.49	6761.25	761.77	6761.21
763.14	6760.9	764.77	6760.54	765.22	6760.52	765.32	6760.42	766.77	6760.35
768.69	6760.33								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
164.02	.05	567.31	.04	604.82	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	567.31	604.82		151.67	151.67		.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
164.02	419.34	6762	F
729.34	768.69	6762	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4033.14

INPUT

Description:

Station	Elevation	Data	num=	490					
35.66	6761.02	36.32	6761.02	38.41	6760.94	40.24	6760.9	43.36	6760.81
46.34	6760.78	48.31	6760.74	49.32	6760.68	51.29	6760.58	51.34	6760.57
54.27	6760.45	55.26	6760.42	58.23	6760.3	63.19	6760.2	65.17	6760.1
67.15	6760.01	68.32	6759.97	69.51	6759.9	72.53	6759.75	73.32	6759.7
77.58	6759.7	78.32	6759.71	81.62	6759.81	83.32	6759.79	85.32	6759.73
85.65	6759.73	87.32	6759.68	89.32	6759.64	90.32	6759.63	91.71	6759.6
93.32	6759.6	93.73	6759.61	98.74	6759.61	100.33	6759.57	101.33	6759.56
103.12	6759.51	104.33	6759.51	108.29	6759.55	112.59	6759.64	113.34	6759.67
114.7	6759.67	114.98	6759.66	117.85	6759.66	118.35	6759.64	121.35	6759.64
121.66	6759.63	123.35	6759.63	124.52	6759.57	128.37	6759.39	131.53	6759.51
133.36	6759.59	134.69	6759.61	138.37	6759.69	138.9	6759.69	140.37	6759.66
140.76	6759.66	142.37	6759.63	144.16	6759.61	147.44	6759.61	148.4	6759.62
149.42	6759.59	150.47	6759.59	153.17	6759.56	153.63	6759.56	156.39	6759.63
158.89	6759.68	159.39	6759.68	161.4	6759.72	163.4	6759.77	164.15	6759.76
165.58	6759.76	168.45	6759.74	172.41	6759.78	172.57	6759.79	174.18	6759.79
174.41	6759.78	176.78	6759.75	178.42	6759.72	182.04	6759.79	183.42	6759.82
184.14	6759.8	186.25	6759.76	186.43	6759.75	190.41	6759.71	193.61	6759.71
194.66	6759.69	196.77	6759.7	198.44	6759.67	199	6759.67	199.92	6759.65
200.98	6759.66	201.44	6759.68	205.6	6759.68	206.35	6759.67	207.51	6759.67
207.92	6759.66	209.54	6759.66	209.8	6759.65	211.63	6759.65	212.39	6759.64
213.6	6759.64	214.11	6759.63	215.83	6759.63	216.58	6759.62	217.82	6759.62
218.42	6759.61	220.14	6759.61	220.3	6759.6	221.86	6759.6	222.63	6759.59
225.25	6759.59	228.76	6759.65	229.86	6759.65	230.87	6759.63	231.34	6759.61
232.2	6759.6	237.42	6759.48	238.32	6759.47	239.83	6759.44	240.98	6759.41
241.9	6759.4	246.03	6759.32	247.27	6759.29	248.16	6759.28	249.95	6759.24
250.85	6759.23	252.08	6759.2	256.22	6759.12	258.28	6759.1	259.13	6759.08
261.59	6758.94	263.38	6758.89	264.28	6758.89	267.86	6758.85	269.81	6758.84
270.96	6758.82	273.09	6758.8	274.12	6758.8	280.19	6758.74	281.09	6758.72
283.32	6758.72	283.65	6758.71	287.11	6758.71	287.36	6758.7	290.56	6758.7
291.13	6758.69	294.02	6758.69	294.41	6758.68	297.48	6758.68	298.29	6758.67
300.98	6758.67	301.47	6758.66	304.56	6758.66	305.1	6758.65	306.71	6758.65
308.52	6758.59	309.93	6758.53	313.1	6758.43	314.41	6758.38	318.24	6758.25
319.39	6758.22	320.55	6758.18	321.62	6758.18	323.64	6758.76	324.65	6759.06
326.31	6759.06	326.66	6759.07	327.83	6759.07	328.62	6759.08	329.69	6759.08
330.85	6759.23	331.48	6759.24	331.69	6759.27	334.7	6759.41	335.71	6759.49
336.11	6759.54	336.32	6759.53	337.97	6759.72	338.89	6759.84	339.82	6759.93
341.67	6759.87	342.6	6759.85	344.56	6759.79	346.94	6759.77	347.51	6759.72
347.73	6759.72	349.73	6759.57	350.46	6759.56	351.73	6759.52	352.73	6759.52
354.73	6759.55	356.1	6759.47	357.11	6759.42	357.35	6759.48	357.73	6759.45
358.13	6759.48	359.73	6759.57	362.2	6759.6	362.73	6759.59	364.73	6759.53
366.2	6759.55	367.19	6759.54	367.28	6759.56	368.3	6759.53	369.73	6759.5

373.39	6759.5	374.74	6759.49	377.74	6759.17	379.74	6758.9	381.74	6758.72
384.57	6758.46	384.89	6758.44	385.59	6758.43	387.63	6758.37	390.68	6758.4
391.78	6758.4	392.76	6758.41	394.74	6758.46	397.8	6758.52	399.74	6758.58
401.62	6758.6	402.88	6758.62	404.74	6758.53	406.95	6758.52	407.52	6758.51
408.98	6758.51	409.74	6758.52	411.02	6758.41	411.74	6758.36	413.05	6758.25
413.42	6758.25	414.07	6758.21	414.74	6758.19	418.14	6757.87	419.33	6757.75
419.74	6757.72	423.22	6757.36	424.74	6757.22	425.74	6757.22	427.2	6757.2
428.18	6757.21	428.31	6757.19	429.74	6757.22	432.11	6757.34	433.1	6757.38
434.74	6757.46	437.74	6757.55	438.02	6757.54	438.48	6757.57	439	6757.56
440.51	6757.56	442.55	6757.59	444.75	6757.61	447.63	6757.81	448.65	6757.89
449.82	6757.95	452.72	6758.24	453.74	6758.35	454.74	6758.38	457.69	6759.07
459.75	6759.54	461.63	6759.59	462.89	6759.61	463.91	6759.64	464.58	6759.73
466.75	6759.71	467.53	6759.69	468.75	6759.68	469.75	6759.66	470.01	6759.64
471.75	6759.55	473.43	6759.45	474.08	6759.42	474.75	6759.37	479.16	6759.37
479.33	6759.35	480.75	6759.36	481.75	6759.38	482.29	6759.38	483.23	6759.4
484.25	6759.41	484.25	6759.43	485.26	6759.45	486.75	6759.5	487.75	6759.52
489.33	6759.57	490.35	6759.62	491.14	6759.64	491.75	6759.67	494.75	6759.77
496.75	6759.7	497.04	6759.7	498.75	6759.64	499.01	6759.59	499.5	6759.62
499.99	6759.54	502.95	6759.22	503.93	6759.1	506.88	6758.77	507.86	6758.65
508.85	6758.54	509.83	6758.42	511.8	6758.05	514.76	6757.48	515.78	6757.3
516.72	6757.12	519.85	6756.55	520.65	6756.53	520.86	6756.5	522.9	6756.41
523.76	6756.36	524.59	6756.33	524.93	6756.3	525.57	6756.88	525.95	6756.89
526.56	6757.46	526.97	6757.46	527.54	6757.43	527.76	6757.5	527.98	6757.65
528.52	6757.2	528.76	6757.36	529	6757.41	529.51	6757.17	529.76	6757.23
530.02	6757.12	530.49	6756.99	530.76	6756.88	531.03	6756.81	531.47	6756.64
532.05	6756.47	532.46	6756.46	533.07	6756.26	533.44	6756.27	533.75	6756.17
534.07	6756.11	534.41	6756.1	534.75	6756.04	535.4	6755.98	536.38	6755.87
536.75	6755.84	540.18	6755.5	541.19	6755.41	541.3	6755.41	544.24	6755.17
544.75	6755.14	546.22	6755.02	547.2	6754.95	547.75	6754.9	548.75	6754.83
549.17	6754.79	550.15	6754.72	552.75	6754.51	554.42	6754.39	555.07	6754.33
556.45	6754.23	556.75	6754.2	558.02	6754.11	560.75	6753.89	560.98	6753.88
562.55	6753.75	564.91	6753.58	565.75	6753.51	565.89	6753.52	566.62	6753.43
567.05	6753.47	567.75	6753.55	569.83	6754.01	570.69	6754.19	572.72	6754.64
573.74	6754.79	579.54	6754.73	579.75	6754.73	579.84	6754.77	580.65	6755.34
580.86	6755.43	581.63	6755.61	581.88	6755.71	582.62	6755.81	582.89	6755.89
583.6	6756.37	583.91	6756.42	584.59	6756.68	584.93	6756.67	585.57	6756.32
585.95	6756.26	586.55	6756.11	586.75	6756.08	587.75	6756.12	590.01	6756.16
590.75	6756.18	591.76	6756.19	592.46	6756.21	593.44	6756.22	594.08	6756.24
595.1	6756.25	595.76	6756.27	596.76	6756.28	598.36	6756.31	599.76	6756.33
601.31	6756.56	603.28	6756.86	604.76	6757.05	606.23	6757.72	606.29	6757.76
607.3	6758.21	609.76	6759.32	611.37	6759.54	611.76	6759.6	613.94	6759.89
614.76	6760.01	615.08	6760.01	616.76	6760.04	617.48	6760.04	618.5	6760.06
619.76	6760.07	621.55	6760.13	622.94	6760.15	623.59	6760.17	624.91	6760.19
625.89	6760.23	626.64	6760.25	628.68	6760.37	629.7	6760.42	630.72	6760.5
631.74	6760.59	632.75	6760.56	634.73	6760.52	635.72	6760.4	636.7	6760.27
637.84	6760.16	639.76	6759.99	640.63	6760	641.92	6760	642.6	6760.06
642.76	6760.06	643.76	6760.12	644.56	6760.18	646.76	6760.27	647.01	6760.27
647.51	6760.36	648.03	6760.4	649.05	6760.53	649.76	6760.63	654.76	6760.78
655.76	6760.87	657.34	6761	658.77	6761.13	659.77	6761.23	660.77	6761.22
661.77	6761.2	663.3	6761.2	663.77	6761.21	664.77	6761.21	666.18	6761.18
667.38	6761.14	670.11	6761.18	671.77	6761.23	672.77	6761.25	673.77	6761.25
674.77	6761.26	675.77	6761.32	676.77	6761.37	676.99	6761.37	677.56	6761.42
678.95	6761.38	679.6	6761.37	680.77	6761.28	681.9	6761.21	682.65	6761.14
683.77	6761.15	683.87	6761.16	685.83	6761.18	686.72	6761.2	687.8	6761.21
689.78	6761.15	691.73	6761.07	692.83	6761.02	695.66	6760.97	696.91	6760.93
698.61	6760.9	699.59	6760.87	701.77	6760.93	702.77	6760.97	703.02	6760.97
703.52	6760.93	703.77	6760.94	704.77	6760.89	705.05	6760.91	706.48	6760.97

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
35.66	.05	533.75	.04	582.89	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	533.75	582.89		150.79	150.79		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3887.57

INPUT

Description:

Station	Elevation	Data	num=	490						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
37.24	6761.14	37.94	6761.13	40.51	6760.97	41.5	6760.92	42.24	6760.87	
44.01	6760.85	45.02	6760.85	45.24	6760.84	46.44	6760.84	47.04	6760.83	
52.37	6760.83	58.3	6760.53	61.21	6760.41	62.22	6760.36	67.28	6760.36	
68.29	6760.35	70.17	6760.29	73.13	6760.21	74.36	6760.16	75.11	6760.14	
77.08	6760.06	82.46	6760.06	83.47	6760.05	84.24	6760.03	87.24	6759.99	
87.52	6759.97	89.54	6759.89	90.24	6759.85	92.58	6759.76	95.24	6759.76	
96.24	6759.75	97.24	6759.72	97.64	6759.73	98.65	6759.73	100.24	6759.76	
100.67	6759.76	102.24	6759.79	103.71	6759.76	105.86	6759.69	107.46	6759.65	
109.26	6759.69	110.28	6759.69	110.41	6759.7	111.55	6759.7	112.29	6759.71	
113.79	6759.76	114.69	6759.78	117.32	6759.88	120.64	6759.88	121.91	6759.86	
122.92	6759.86	123.36	6759.85	125.52	6759.85	126.33	6759.84	128.4	6759.84	
131.84	6759.8	133.65	6759.8	134.29	6759.81	136.56	6759.81	137.46	6759.82	
138.84	6759.77	139.97	6759.72	142.49	6759.63	143.38	6759.64	150.54	6759.64	
150.81	6759.65	153.13	6759.65	154.75	6759.63	156.58	6759.58	157.03	6759.56	
158.03	6759.55	158.93	6759.57	160.44	6759.58	161.91	6759.62	162.55	6759.63	
164.35	6759.62	167.96	6759.58	168.4	6759.57	169.53	6759.57	169.67	6759.56	
170.69	6759.56	171.58	6759.55	172.68	6759.55	173.38	6759.53	174.29	6759.52	
176.71	6759.47	177.9	6759.46	179.77	6759.51	180.9	6759.53	182.75	6759.58	
183.32	6759.58	185.77	6759.61	186.59	6759.61	187.72	6759.63	188.24	6759.63	
189.64	6759.61	190.54	6759.61	191.44	6759.59	193.25	6759.57	194.15	6759.57	
195.68	6759.55	197.96	6759.55	199.57	6759.57	202.5	6759.62	203.89	6759.62	
206.79	6759.59	207.7	6759.59	211.6	6759.42	212.74	6759.39	214.02	6759.39	
214.56	6759.4	217.51	6759.4	218.37	6759.41	219.02	6759.43	223.09	6759.52	
224.4	6759.47	225.27	6759.45	226.09	6759.42	226.99	6759.4	227.38	6759.38	
228.62	6759.35	229.18	6759.35	231.77	6759.31	233.25	6759.28	234.74	6759.33	
238.19	6759.41	241.37	6759.41	241.64	6759.36	242.23	6759.36	242.5	6759.34	
243.47	6759.22	244.22	6759.23	244.42	6759.18	245.94	6759.18	245.95	6759.17	
247.68	6759.17	248.3	6759.16	250.68	6759.14	254.49	6759.1	256.93	6759.07	
259.5	6759.05	260.79	6759.03	261.73	6759.03	263.4	6759.01	264.89	6759	
266.64	6758.98	268.28	6758.99	269.52	6759.01	270.53	6759.01	272.96	6759.04	
282.56	6759.04	282.82	6759.05	284.2	6759.05	284.56	6759.06	286.05	6759.17	
286.07	6759.15	286.57	6759.19	288.88	6759.26	289.57	6759.26	290.58	6759.28	
290.76	6759.3	291.45	6759.29	293.57	6759.48	295.59	6759.48	295.76	6759.49	
296.84	6759.49	298.25	6759.52	299.18	6759.53	302.23	6759.53	303.31	6759.5	
308.7	6759.5	312.29	6759.42	312.63	6759.42	313.63	6759.39	314.64	6759.39	
315.1	6759.38	316.64	6759.38	316.98	6759.37	318.85	6759.37	322.6	6759.45	
323.8	6759.48	324.47	6759.45	325.96	6759.4	326.34	6759.38	328.67	6759.31	
329.15	6759.32	329.2	6759.29	330.68	6759.32	331.68	6759.33	332.43	6759.35	
333.83	6759.37	334.59	6759.32	335.96	6759.33	337.58	6759.35	338.69	6759.35	
339.98	6759.23	340.39	6759.14	340.7	6759.11	341.32	6759	343.2	6758.7	
343.71	6758.61	344.71	6758.34	345.07	6758.26	345.37	6758.16	345.71	6758.09	
347.49	6757.68	348.72	6757.41	349.9	6757.3	351.55	6757.17	352.56	6757.1	
353.72	6757.01	354.84	6757.03	358.65	6757.11	360.76	6757.32	361.74	6757.4	
363.72	6757.58	365.69	6757.48	368.65	6757.66	370.72	6757.62	374.57	6757.31	
375.89	6757.19	376.54	6757.18	376.72	6757.16	378.72	6757.1	380.96	6756.9	
381.47	6756.82	381.97	6756.77	382.72	6756.66	383.72	6756.53	384.72	6756.55	
386.03	6756.59	386.41	6756.51	386.72	6756.52	388.72	6756.32	389.37	6756.33	
390.72	6756.33	393.72	6756.42	395.15	6756.36	396.17	6756.33	396.27	6756.35	
397.26	6756.34	398.72	6756.37	400.22	6756.37	401.2	6756.4	401.24	6756.38	
402.25	6756.43	403.72	6756.52	405.72	6756.56	407.12	6756.58	408.34	6756.58	
408.72	6756.59	409.35	6756.65	410.72	6756.8	411.07	6756.82	411.38	6756.87	
413.04	6756.97	414.72	6757.09	415.01	6757.12	417.72	6757.31	418.72	6757.37	
419.72	6757.56	420.72	6757.74	420.93	6757.76	421.52	6757.89	422.72	6757.98	
423.55	6758.03	423.89	6758.08	426.59	6758.6	428.62	6758.96	428.83	6758.99	
429.63	6759.05	430.8	6759.16	431.66	6759.22	433.76	6759.58	436.35	6759.66	
438.69	6759.71	439.77	6759.68	441.65	6759.64	443.62	6759.58	444.84	6759.53	
445.6	6759.51	448.56	6759.39	449.91	6759.32	451.94	6759.2	452.5	6759.22	
452.73	6759.21	453.73	6759.21	453.97	6759.23	456.45	6759.33	456.73	6759.35	
459.04	6759.42	461.38	6759.52	462.08	6759.54	463.73	6759.54	465.12	6759.49	
466.14	6759.44	467.15	6759.4	467.3	6759.38	468.16	6759.34	472.22	6759.09	
472.23	6759.12	472.73	6759.08	474.73	6759.08	475.19	6759.09	476.28	6759.09	
477.17	6759.13	477.29	6759.1	478.73	6759.21	481.35	6759.31	482.1	6759.35	
482.36	6759.35	483.73	6759.42	486.73	6759.51	487.03	6759.53	487.73	6759.54	
490.47	6759.73	491.49	6759.81	491.96	6759.81	492.5	6759.88	493.94	6759.81	
494.53	6759.79	497.57	6759.64	498.73	6759.57	499.86	6759.55	501.83	6759.53	
502.64	6759.51	504.79	6759.59	506.76	6759.74	507.71	6759.82	508.73	6759.89	
509.09	6759.87	510.75	6759.74	511.69	6759.66	512.78	6759.58	513.67	6759.54	

515.64	6759.18	515.82	6759.14	517.61	6758.81	517.85	6758.76	518.87	6758.65
522.92	6758.53	523.53	6758.45	523.94	6758.44	525.73	6758.32	527.48	6758.22
528.47	6758.14	529.45	6758.1	529.73	6758.1	533.06	6758	533.4	6758.04
533.73	6758.03	537.12	6757.76	538.13	6757.69	538.73	6757.63	539.15	6757.63
539.32	6757.58	540.73	6757.56	541.17	6757.5	541.29	6757.55	541.73	6757.49
542.73	6757.24	543.2	6757.06	543.26	6757.07	543.73	6756.89	545.22	6756.39
546.23	6756.06	547.2	6755.73	548.18	6755.41	548.26	6755.48	548.72	6755.33
549.17	6755.32	549.27	6755.29	550.16	6755.29	550.29	6755.34	550.72	6755.34
551.14	6755.37	551.3	6755.35	551.72	6755.38	552.72	6755.34	556.08	6755.24
556.72	6755.2	557.39	6755.1	559.72	6754.79	560.43	6754.74	561.72	6754.61
562.72	6754.52	564.72	6754.28	565.33	6754.22	565.94	6754.17	566.93	6754.12
567.91	6754.06	568.72	6753.98	570.87	6753.67	571.58	6753.65	573.61	6753.41
573.83	6753.39	575.81	6753.15	576.65	6753.06	577.84	6752.92	578.77	6752.84
582.74	6753.42	583.75	6753.49	584.77	6753.85	586.66	6754.53	587.64	6754.82
587.81	6754.88	588.82	6755.16	589.62	6755.35	589.84	6755.46	590.33	6755.76
590.6	6755.92	590.73	6756.02	591.86	6756.96	592.73	6757.67	592.88	6757.92
593.56	6759.3	593.73	6759.56	596.93	6759.4	597.51	6759.38	598.73	6759.32
600.99	6759.52	603.43	6759.75	604.03	6759.78	604.47	6759.78	605.05	6759.79
606.06	6759.79	607.37	6759.81	608.36	6759.81	613.28	6759.96	614.18	6759.98
614.27	6759.95	614.73	6759.96	616.73	6759.88	617.23	6759.87	618.73	6759.81
619.2	6759.92	619.26	6759.91	620.28	6760.15	621.73	6760.48	622.73	6760.7
623.73	6760.93	624.34	6761.02	625.11	6761.11	626.09	6761.24	627.08	6761.36
627.73	6761.45	629.41	6761.65	631.44	6761.91	632.46	6762.05	633.73	6762.21
633.98	6762.27	634.49	6762.28	636.93	6762.81	637.53	6762.95	638.73	6763.21
639.57	6763.33	639.89	6763.36	641.86	6763.58	642.61	6763.67	643.63	6763.78
644.64	6763.85	644.73	6763.84	645.8	6763.83	648.7	6763.77	649.72	6763.76
653.78	6763.76	654.67	6763.73	655.66	6763.68	656.36	6763.65	658.74	6763.55
660.19	6763.48	661.22	6763.44	662.4	6763.38	663.06	6763.36	663.98	6763.31
666.83	6763.19	671.26	6762.99	672.25	6762.94	673.81	6762.85	674.58	6762.85
675.92	6762.82	676.84	6762.82	677.9	6762.74	678.68	6762.69	679.6	6762.61
680.84	6762.52	682.85	6762.36	684.19	6762.26	685.11	6762.16	685.74	6762.11

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
37.24	.05	545.22	.04
		590.33	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
545.22	590.33	146.75	146.75	146.75		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3742

INPUT

Description: Bridge Cross Section 1

Station Elevation Data		num=		490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
374.28	6760.24	376.12	6760.22	377.14	6760.22	380.17	6760.31	381.18	6760.33
386.03	6760.14	387.02	6760.17	390	6760.29	391.27	6760.32	393.96	6760.35
395.3	6760.37	396.13	6760.39	397.13	6760.33	399.91	6760.19	400.35	6760.16
401.35	6760.14	402.89	6760.16	405.39	6760.21	406.13	6760.21	408.41	6760.25
409.13	6760.25	410.43	6760.27	410.82	6760.36	411.13	6760.36	411.44	6760.42
411.81	6760.38	412.13	6760.44	413.46	6760.43	414.13	6760.45	416.13	6760.53
417.76	6760.56	418.5	6760.58	418.75	6760.54	419.51	6760.54	419.74	6760.51
420.52	6760.49	420.73	6760.55	421.13	6760.54	421.53	6760.5	421.72	6760.58
422.13	6760.54	422.72	6760.55	423.55	6760.6	423.71	6760.57	424.55	6760.63
424.7	6760.61	425.56	6760.64	425.69	6760.63	426.57	6760.64	426.68	6760.62
428.59	6760.61	433.62	6760.51	434.64	6760.48	435.61	6760.48	435.65	6760.46
436.66	6760.46	437.13	6760.45	439.57	6760.45	439.69	6760.43	441.55	6760.44
442.71	6760.43	443.72	6760.45	445.52	6760.45	446.75	6760.46	448.13	6760.45
448.76	6760.46	449.49	6760.45	450.13	6760.46	451.13	6760.45	452.8	6760.47
453.45	6760.46	454.13	6760.47	455.44	6760.45	455.82	6760.46	457.13	6760.43
457.84	6760.44	459.4	6760.43	459.86	6760.42	460.87	6760.42	461.88	6760.4
462.89	6760.4	463.89	6760.38	464.9	6760.38	465.91	6760.36	467.13	6760.36
467.93	6760.34	469.32	6760.34	469.95	6760.32	471.3	6760.32	472.97	6760.3
476	6760.27	477.01	6760.27	478.02	6760.25	479.23	6760.25	480.03	6760.23
482.21	6760.23	483.06	6760.21	484.19	6760.22	485.08	6760.19	486.17	6760.21
487.09	6760.17	488.16	6760.16	489.11	6760.14	490.14	6760.14	491.14	6760.13
492.14	6760.19	493.11	6760.26	496.17	6760.44	498.07	6760.31	499.06	6760.23

499.2	6760.23	501.04	6760.09	501.22	6760.09	502.04	6760.03	502.23	6760.03
506.13	6759.79	507.27	6759.8	507.99	6759.82	509.29	6759.84	511.13	6759.86
514.33	6759.83	515.34	6759.81	515.92	6759.81	516.91	6759.78	519.37	6759.73
519.88	6759.71	521.39	6759.68	521.87	6759.72	522.13	6759.72	523.41	6759.77
523.85	6759.8	525.13	6759.85	526.13	6759.9	527.82	6759.88	531.13	6759.82
531.48	6759.83	534.76	6759.77	536.13	6759.75	538.72	6759.82	540.56	6759.86
541.57	6759.9	541.7	6759.88	542.13	6759.91	542.69	6759.91	544.13	6759.94
544.67	6759.94	546.13	6759.97	546.65	6759.93	551.13	6759.66	551.68	6759.64
553.7	6759.64	554.13	6759.65	556.13	6759.65	557.13	6759.7	558.13	6759.73
560.13	6759.81	561.46	6759.85	561.81	6759.82	563.43	6759.83	564.85	6759.85
566.4	6759.85	566.88	6759.86	568.9	6759.83	569.13	6759.82	570.93	6759.8
572.96	6759.74	573.31	6759.72	576	6759.64	577.25	6759.67	578.24	6759.68
579.04	6759.7	580.22	6759.71	581.06	6759.73	584.1	6759.6	584.16	6759.59
586.39	6759.5	588.16	6759.5	590.09	6759.51	590.14	6759.52	591.2	6759.52
592.21	6759.53	594.14	6759.58	595.02	6759.59	596.01	6759.62	597.14	6759.58
599.31	6759.55	600.32	6759.53	600.95	6759.53	601.93	6759.5	602.35	6759.5
604.14	6759.42	604.37	6759.42	606.14	6759.35	607.41	6759.44	607.86	6759.48
609.14	6759.57	609.44	6759.57	609.83	6759.63	611.14	6759.62	614.14	6759.44
614.51	6759.44	614.76	6759.41	616.14	6759.4	617.14	6759.37	617.73	6759.34
618.71	6759.31	621.14	6759.21	622.14	6759.21	623.14	6759.19	623.65	6759.19
625.62	6759.15	627.14	6759.15	628.58	6759.18	630.14	6759.23	631.14	6759.25
632.14	6759.24	632.53	6759.26	632.75	6759.24	636.14	6759.34	637.14	6759.34
637.47	6759.31	637.82	6759.33	638.46	6759.29	639.14	6759.23	641.14	6759.09
641.42	6759.08	642.88	6759.07	643.9	6759.08	644.91	6759.08	645.14	6759.09
646.35	6759.09	647.95	6759.04	651.14	6759.04	653.02	6758.97	653.26	6758.97
655.04	6758.92	656.06	6758.9	657.21	6758.9	658.08	6758.89	659.18	6758.89
660.11	6758.88	661.16	6758.88	662.14	6758.87	663.15	6758.87	666.09	6758.81
667.14	6758.81	667.2	6758.81	668.22	6758.82	669.06	6758.85	671.03	6758.9
672.27	6758.9	673.28	6758.91	676.14	6758.88	677.34	6758.8	677.94	6758.75
679.14	6758.67	680.14	6758.59	682.14	6758.46	683.42	6758.37	686.14	6758.29
688.49	6757.59	688.8	6757.46	689.14	6757.35	691.14	6756.63	693.14	6755.98
694.57	6755.53	696.14	6755.02	698.62	6754.79	698.67	6754.83	699.14	6754.79
701.15	6754.79	703.69	6754.9	706.15	6754.9	708.75	6755.03	709.53	6755.08
711.15	6755.2	712.81	6755.29	713.15	6755.3	713.48	6755.38	713.82	6755.34
715.15	6755.62	716.15	6755.84	718.15	6756.09	718.41	6756.08	718.89	6756.19
721.37	6756.09	723.96	6756.04	724.33	6756.02	728.01	6755.91	729.02	6755.87
730.04	6755.86	731.24	6755.86	732.23	6755.95	733.08	6756.01	734.21	6756.11
736.18	6756.32	739.16	6757.02	741.12	6757.36	742.2	6757.2	743.21	6757.03
744.22	6756.87	746.05	6756.65	747.04	6756.63	748.02	6756.63	751.15	6756.49
753.34	6756.47	754.36	6756.45	754.93	6756.41	755.92	6756.36	757.4	6756.21
758.41	6756.09	759.42	6755.98	759.87	6756.04	760.15	6756.01	761.15	6756.04
761.45	6756.11	763.15	6756.45	764.15	6756.66	764.49	6756.72	764.81	6756.63
765.15	6756.7	765.79	6756.69	768.15	6756.62	769.56	6756.59	769.74	6756.63
770.15	6756.62	772.7	6756.74	774.15	6756.8	774.63	6756.83	774.68	6756.8
775.15	6756.82	776.15	6756.82	777.67	6756.74	779.15	6756.67	780.15	6756.63
781.72	6756.59	783.75	6756.59	784.55	6756.57	784.76	6756.58	786.15	6756.55
787.51	6756.49	788.5	6756.46	789.83	6756.4	791.15	6756.31	793.15	6756.28
793.88	6756.26	794.42	6756.27	794.89	6756.25	796.15	6756.29	797.93	6756.25
798.37	6756.25	799.35	6756.22	800.15	6756.21	801.15	6756.16	802.32	6756.14
804.01	6756.1	804.29	6756.11	805.03	6756.08	806.04	6756.15	808.07	6756.44
809.23	6756.6	810.09	6756.73	811.2	6756.77	813.13	6756.81	813.17	6756.82
814.66	6756.85	815.16	6756.87	816.14	6757.07	817.19	6757.11	820.23	6757.21
821.07	6757.39	822.16	6757.5	825.16	6757.85	826.16	6757.93	829.35	6758.75
830.36	6759	830.94	6758.99	831.16	6759.04	831.93	6759.03	834.89	6758.97
836.16	6758.94	836.86	6758.91	837.85	6758.91	840.16	6758.88	841.16	6758.88
842.16	6758.69	844.76	6758.22	845.56	6758.08	845.75	6757.96	846.58	6757.81
847.16	6757.72	849.16	6756.67	850.16	6756.35	853.67	6755.33	853.77	6755.99
854.13	6755.72	854.43	6755.57	857.68	6755.08	859.43	6754.83	860.43	6754.67
861.22	6754.49	862.24	6754.3	862.43	6754.28	863.43	6754.3	863.6	6754.24
864.26	6754.07	864.59	6753.97	866.26	6753.41	866.56	6753.34	867.3	6753.2
869.33	6753.02	870.34	6752.95	870.51	6752.95	873.39	6753.01	873.47	6753.02
875.45	6753.06	877.44	6753.16	878.41	6753.29	878.77	6753.33	879.47	6753.41
880.48	6753.56	882.36	6753.85	883.34	6754.01	883.52	6754.03	884.43	6754.05
889.6	6754.05	890.43	6754.04	890.61	6754.09	891.24	6754.38	891.63	6754.52
892.23	6754.66	892.43	6754.74	893.43	6754.92	895.19	6755.22	897.43	6755.62
897.71	6755.68	898.15	6755.74	898.43	6755.81	898.72	6755.84	899.43	6755.95
900.12	6755.95	900.43	6755.93	900.75	6755.96	901.11	6755.85	901.43	6755.88
901.76	6755.82	902.1	6756.04	902.43	6755.98	902.77	6755.96	903.09	6755.74
904.63	6755.67	905.43	6755.64	907.11	6755.56	908.43	6755.51	908.73	6755.51
909.14	6755.6	909.43	6755.6	909.71	6755.65	910.16	6755.62	910.43	6755.67
912.43	6755.72	913.21	6755.75	914.23	6755.77	916.6	6755.84	917.28	6756

917.58	6756.04	918.3	6756.33	918.57	6756.41	919.55	6756.66	920.54	6756.82
921.35	6756.85	922.5	6756.97	923.38	6757.13	926.43	6757.46	927.42	6757.63
928.41	6757.81	929.48	6758.16	931.44	6758.78	933.32	6759.01	934.57	6759.15
935.29	6759.35	935.59	6759.4	936.44	6759.62	937.62	6759.64	938.57	6759.67
939.53	6759.69	940.39	6759.76	941.41	6759.83	942.4	6759.87	942.95	6759.87

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
374.28	.05	853.77	.04	878.77	.05

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
	853.77	878.77	54.92	54.92	54.92		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3640

INPUT

Description:

Station	Elevation	Data	num=	489						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
-576.77	6761.76	-574.39	6761.8	-572.92	6761.81	-564.36	6761.81	-563.62	6761.79	
-563.06	6761.79	-562.35	6761.77	-561.76	6761.77	-559.35	6761.74	-558.34	6761.78	
-555.43	6761.88	-554.35	6761.93	-553.26	6761.93	-550.6	6761.96	-549.31	6761.97	
-547.81	6761.94	-545.3	6761.91	-544.3	6761.89	-543.46	6761.93	-541.28	6762.01	
-539.44	6762.09	-537.58	6762.16	-536.27	6762.2	-534.27	6762.28	-532.93	6762.3	
-532	6762.33	-530.14	6762.37	-529.27	6762.35	-528.21	6762.39	-526.42	6762.47	
-525.49	6762.5	-523.86	6762.59	-522.7	6762.68	-520.59	6762.82	-519.5	6762.9	
-517.87	6762.92	-516.24	6762.93	-514.06	6762.93	-512.97	6762.97	-511.19	6763.02	
-510.19	6763.04	-509.19	6763.07	-506.89	6763	-506.18	6763	-504.26	6763.02	
-503.17	6763.01	-500.99	6763.01	-500.38	6763	-499.16	6763	-498.82	6762.99	
-497.73	6762.99	-497.59	6762.98	-495.55	6762.98	-495.14	6762.99	-492.94	6762.99	
-490.4	6763.02	-489.13	6763.03	-485.75	6763.1	-484.66	6763.13	-481.4	6763.13	
-481.1	6763.12	-477.65	6763.12	-477.13	6763.11	-474.86	6763.11	-474.34	6763.1	
-472.48	6763.1	-472.07	6763.09	-469.69	6763.09	-469.42	6763.08	-467.06	6763.08	
-466.9	6763.07	-465.04	6763.07	-464.11	6763.09	-460.39	6763.09	-460.04	6763.1	
-458.53	6763.1	-456.02	6763.15	-454.18	6763.17	-452	6763.17	-450.91	6763.16	
-449.23	6763.11	-444.58	6763.01	-442.98	6762.99	-441.98	6762.97	-439.4	6762.97	
-439	6762.98	-435.67	6762.98	-435.28	6762.99	-433.96	6762.99	-433.49	6763	
-432.4	6763	-431.95	6763.01	-430.22	6763.01	-429.94	6763.02	-428.77	6763.02	
-428.05	6763.03	-426.65	6763.03	-425.98	6763.04	-424.78	6763.04	-424.12	6763.05	
-422.92	6763.05	-422.6	6763.06	-421.33	6763.06	-420.92	6763.07	-417.61	6763.07	
-417.16	6763.06	-416.07	6763.06	-415.9	6763.05	-414.82	6763.05	-411.89	6763.02	
-410.63	6763.02	-410.17	6763.01	-404.87	6763.01	-403.86	6763.02	-403.66	6763.01	
-401.8	6762.97	-399.95	6762.92	-398.85	6762.85	-398.65	6762.82	-396.84	6762.6	
-395.3	6762.4	-394.3	6762.25	-393.83	6762.19	-390.65	6762.12	-388.85	6762.16	
-388.4	6762.15	-386	6762.05	-383.21	6761.89	-381.79	6761.8	-380.42	6761.73	
-379.49	6761.67	-378.56	6761.63	-376.7	6761.62	-374.84	6761.55	-373.77	6761.52	
-371.76	6761.4	-371.12	6761.38	-369.76	6761.31	-368.75	6761.27	-367.4	6761.2	
-365.99	6761.14	-363.81	6761.06	-362.9	6761.04	-358.72	6761.04	-358.1	6761.03	
-356.24	6760.94	-353.45	6760.79	-351.59	6760.71	-348.8	6760.57	-345.08	6760.54	
-343.68	6760.52	-343.22	6760.47	-343.12	6760.49	-342.29	6760.4	-342.04	6760.39	
-340.67	6760.24	-339.86	6760.25	-339.5	6760.27	-337.4	6760.3	-335.78	6760.34	
-333.33	6760.39	-331.64	6760.43	-328.34	6760.5	-326.79	6760.54	-326.48	6760.54	
-324.65	6760.58	-323.69	6760.59	-321.83	6760.58	-317.6	6760.53	-316.99	6760.53	
-315.91	6760.51	-315.32	6760.51	-311.9	6760.47	-309.57	6760.45	-308.57	6760.43	
-307.2	6760.39	-306.95	6760.35	-306.56	6760.34	-305.56	6760.23	-305.09	6760.26	
-305.02	6760.16	-304.56	6760.19	-303.55	6760.23	-302.3	6760.59	-300.66	6761.01	
-298.58	6761.56	-298.49	6761.59	-297.65	6761.68	-296.72	6762.01	-293.52	6763.11	
-293.04	6763.1	-293	6763.02	-291.52	6762.99	-290.51	6762.98	-289.28	6762.95	
-288.51	6762.94	-286.51	6762.21	-286.4	6762.16	-283.49	6761.11	-282.77	6761	
-279.05	6760.4	-278.89	6760.26	-278.48	6760.19	-277.19	6760.26	-276.47	6760.31	
-275.62	6760.35	-274.53	6760.42	-272.54	6760.4	-271.27	6760.4	-269.75	6760.39	
-269.45	6760.38	-268.45	6760.38	-266.44	6760.43	-264.43	6760.49	-263.43	6760.5	
-262.32	6760.54	-260.46	6760.59	-259.53	6760.6	-257.67	6760.64	-255.41	6760.71	
-253.95	6760.74	-253.4	6760.76	-251.16	6760.73	-250.58	6760.75	-249.39	6760.76	
-248.15	6760.79	-245.37	6760.79	-245.14	6760.8	-241.86	6760.8	-240.36	6760.82	
-239.36	6760.82	-239.07	6760.83	-237.21	6760.84	-234.42	6760.9	-233.49	6760.93	
-231.63	6760.96	-229.9	6761.01	-228.81	6761.03	-226.32	6761.1	-225.31	6761.14	

-224.45	6761.16	-223.36	6761.2	-222.65	6761.19	-222.27	6761.17	-220.1	6761.11
-218.29	6761.05	-216.83	6760.97	-216.28	6760.95	-213.96	6760.82	-213.56	6760.79
-212.48	6760.75	-211.17	6760.69	-209.31	6760.62	-208.12	6760.55	-207.45	6760.53
-204.25	6760.39	-201.87	6760.24	-200.24	6760.12	-200.01	6760.11	-198.15	6759.93
-197.23	6759.78	-196.14	6759.63	-195.22	6759.55	-193.21	6759.55	-191.79	6759.43
-191.21	6759.37	-190.7	6759.34	-188.85	6759.2	-187.92	6759.14	-186.06	6759
-185.26	6758.93	-183.27	6758.78	-182.18	6758.67	-181.99	6758.68	-181.41	6758.6
-180.48	6758.61	-178.17	6758.65	-176.76	6758.62	-174.9	6758.68	-173.28	6758.72
-172.11	6758.78	-171.1	6758.85	-168.14	6759.02	-167.84	6759.02	-167.46	6759.06
-166.75	6759.03	-165.6	6759	-164.57	6758.96	-162.81	6758.91	-162.39	6758.95
-162.12	6758.94	-160.95	6759	-159.13	6759.08	-158.16	6759.13	-155.37	6759.2
-154.09	6759.24	-153.68	6759.19	-153.51	6759.26	-153.09	6759.2	-152.59	6759.07
-152.58	6759.2	-152.09	6759.06	-151.65	6759.05	-151.51	6758.92	-150.72	6758.88
-150.42	6758.8	-149.33	6758.73	-148.86	6758.71	-148.24	6759.11	-146.06	6759.03
-144.97	6758.98	-142.8	6758.9	-141.42	6758.88	-139.56	6758.84	-138.04	6758.87
-136.77	6758.8	-134.91	6758.71	-133	6758.56	-131.91	6758.45	-130.82	6758.33
-130.26	6758.28	-129.73	6758.2	-128.01	6757.97	-127.01	6757.77	-126.55	6757.71
-126.46	6757.67	-125	6757.48	-124.69	6757.47	-124.29	6757.6	-124	6757.59
-123	6757.81	-121.9	6757.81	-120.97	6757.82	-117.98	6757.47	-116.98	6757.43
-116.67	6757.39	-116.32	6757.39	-114.49	6757.2	-114.46	6757.19	-112.97	6757.03
-111.67	6756.98	-107.96	6757.02	-106.09	6757.1	-103.6	6757.19	-103.3	6757.11
-102.51	6757.15	-102.37	6757.14	-101.44	6757.19	-99.93	6757.26	-98.92	6757.3
-97.92	6757.35	-97.72	6757.32	-97.07	6757.29	-96.79	6757.26	-95.98	6757.21
-94.89	6757.13	-93.91	6757.04	-93.8	6757.05	-93.07	6756.96	-92.9	6756.99
-90.54	6756.71	-88.42	6756.47	-86.56	6756.34	-85.09	6756.23	-83.77	6756.14
-82.84	6756.12	-80.98	6756.4	-79.86	6756.56	-79.65	6756.55	-79.12	6756.67
-78.19	6756.59	-77.86	6756.55	-77.26	6756.61	-76.38	6756.68	-75.8	6756.7
-74.84	6756.69	-74.12	6756.94	-73.38	6756.95	-73.26	6757	-72.68	6756.83
-72.16	6757.31	-71.96	6757.53	-71.66	6757.37	-71.23	6757.28	-70.95	6757.14
-69.8	6756.71	-69.41	6756.64	-64.89	6755.93	-64.05	6755.68	-61.89	6754.96
-61.05	6754.71	-59.28	6754.2	-58.83	6754.08	-57.85	6753.79	-57.51	6753.7
-56.13	6753.3	-55.42	6753.17	-53.26	6753.14	-52.2	6753.14	-51.1	6753.13
-50.34	6753.11	-48.22	6752.91	-47.5	6752.89	-45.13	6752.95	-43.91	6752.99
-43.07	6753.03	-41.75	6753.14	-40.31	6753.25	-39.82	6753.28	-38.87	6753.36
-37.43	6753.47	-36.28	6753.55	-32.16	6753.87	-31.68	6753.92	-29.73	6754.25
-28.08	6754.56	-26.1	6754.94	-25.67	6755.01	-23.9	6755.23	-22.46	6755.4
-21.61	6755.53	-19.33	6755.96	-18.73	6756.08	-17.29	6756.22	-14.41	6756.48
-13.98	6756.53	-12.98	6756.61	-11.55	6756.73	-10.82	6756.73	-8.66	6756.56
-7.94	6756.68	-6.5	6757.04	-5.78	6757.28	-5.49	6757.42	-4.28	6757.96
-3.93	6758.01	-3.62	6758.2	-2.19	6758.16	-1.69	6758.18	-1.31	6758.22
-.74	6758.31	.12	6758.41	1.09	6758.45	1.42	6758.42	1.92	6758.47
5.03	6759.12	5.75	6759.28	9.16	6759.82	10.96	6760.1	12.77	6760.07
15.49	6760.04	16.39	6760.06	17.89	6760.08	18.74	6760.08	20	6760.06
22.34	6759.82	23.89	6759.55	24.23	6759.5	26.13	6759.3	27.6	6759.05
30.39	6758.56	31.45	6758.38	32.55	6758.28	32.98	6758.23	34.52	6758.08
35.13	6758.06	37.6	6758.05	39.14	6758	40.09	6757.96	41.44	6757.96
42.98	6758.02	44.12	6758.05	45.29	6758.1	45.48	6758.15	48.36	6758.69
49.13	6758.83	49.52	6758.98	49.9	6759.07	50.86	6759.38	51.44	6759.49
53.75	6759.96	54.91	6760.22	56.25	6760.51	56.71	6760.54	56.82	6760.59
58.25	6760.66	60.67	6760.63	61.64	6760.67	63.47	6760.67		

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
-576.77	.05	-71.23	.04
		-12.98	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	-71.23	-12.98		54.86	54.86			
					54.86			
Ineffective Flow			num= 2					
Sta L	Sta R	Elev	Permanent					
-1	19.14	6760	F					
146.36	204.71	6760.27	F					

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3639

INPUT
 Description:
 Station Elevation Data num= 488

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-39.32	6761.45	-39.13	6761.44	-38.43	6761.46	-33.75	6761.46	-33.04	6761.45
-31.76	6761.4	-29.25	6761.31	-27.89	6761.25	-27.04	6761.24	-25.69	6761.24
-23.77	6761.31	-21.86	6761.36	-18.4	6761.36	-17.63	6761.37	-17.46	6761.36
-15.89	6761.34	-15.06	6761.32	-13.6	6761.3	-13.47	6761.29	-12.25	6761.28
-10.91	6761.31	-8.22	6761.41	-7.29	6761.44	-5.04	6761.4	-4.23	6761.41
-3.17	6761.41	-2.84	6761.42	-1.51	6761.42	-.16	6761.41	1.98	6761.41
2.47	6761.42	2.53	6761.4	3.87	6761.42	4.59	6761.42	5.22	6761.44
6.1	6761.45	7.49	6761.48	7.91	6761.47	10.22	6761.47	10.59	6761.48
11.66	6761.48	12.28	6761.5	13.28	6761.55	14.63	6761.56	15.83	6761.58
18.34	6761.55	20.52	6761.55	23.34	6761.52	24.03	6761.53	25.02	6761.56
25.38	6761.56	28.76	6761.64	32.53	6761.64	33.91	6761.67	35.87	6761.62
37	6761.6	37.54	6761.6	39.06	6761.58	40.88	6761.65	42.85	6761.68
44.19	6761.71	45.54	6761.71	46.72	6761.72	49.36	6761.75	50.39	6761.72
51.42	6761.7	53.4	6761.65	54.51	6761.65	55.91	6761.69	56.74	6761.73
57.63	6761.75	58.41	6761.78	60.08	6761.82	61.89	6761.82	63.42	6761.8
64.25	6761.78	64.81	6761.78	65.7	6761.74	67.9	6761.67	69.96	6761.59
71.07	6761.56	71.77	6761.55	74.27	6761.49	75.1	6761.51	76.14	6761.56
76.78	6761.6	78.2	6761.67	78.45	6761.69	79.13	6761.66	80.95	6761.62
81.82	6761.62	82.63	6761.61	84.51	6761.56	85.4	6761.53	86.8	6761.51
87.2	6761.52	88.34	6761.52	88.47	6761.53	89.53	6761.53	89.89	6761.54
90.97	6761.54	92.57	6761.56	92.74	6761.57	94.31	6761.59	95.7	6761.59
98.79	6761.67	99.29	6761.66	99.32	6761.68	101.56	6761.65	103.33	6761.65
103.95	6761.66	105.97	6761.71	107.04	6761.71	107.36	6761.73	107.67	6761.71
110.38	6761.9	111.16	6761.96	111.84	6761.97	114.79	6761.97	116.3	6761.94
117.34	6761.84	120.2	6761.58	121.46	6761.42	123.61	6761.25	124.37	6761.18
125.57	6761.25	126.6	6761.3	126.87	6761.29	128.54	6761.26	128.86	6761.26
130.2	6761.23	130.21	6761.28	130.73	6761.26	131.88	6761.31	132.89	6761.29
134.24	6761.32	135.87	6761.37	136.05	6761.37	138.27	6761.42	139.99	6761.47
140.23	6761.47	142.06	6761.53	143.08	6761.44	143.64	6761.38	144.99	6761.26
145.24	6761.23	149.41	6761.23	152.35	6761.02	152.75	6761.01	153.59	6761.01
155.26	6760.99	157.76	6760.97	158.43	6760.95	159.77	6760.93	161.63	6760.89
161.94	6760.89	166.5	6760.78	167.84	6760.73	168.84	6760.76	169.19	6760.76
170.28	6760.79	170.53	6760.77	171.12	6760.77	172.1	6760.74	172.79	6760.73
174.46	6760.65	174.56	6760.68	175.02	6760.66	177.8	6760.7	178.64	6760.7
180.3	6760.65	180.91	6760.64	182.81	6760.58	183.64	6760.58	186.15	6760.55
187.37	6760.53	188	6760.5	190.69	6760.42	191.15	6760.4	192.53	6760.38
194.49	6760.33	196.07	6760.28	197	6760.27	197.41	6760.24	198.54	6760.24
198.67	6760.25	199.51	6760.15	201.44	6760.01	202.01	6759.96	202.95	6759.9
203.85	6759.83	204.88	6759.81	205.35	6759.79	206.19	6759.78	207.85	6759.74
209	6759.7	211.19	6759.91	214.15	6760.21	215.37	6760.38	216.18	6760.48
217.57	6760.7	218.27	6760.82	219.3	6760.98	220.58	6761.5	222.39	6762.14
222.95	6762.33	224.45	6762.87	224.55	6762.88	225.38	6763.15	227.54	6763.77
228.72	6764.12	229.61	6764.24	230.4	6763.99	232.06	6763.45	232.9	6763.19
234.75	6763.02	235.4	6762.86	235.78	6762.78	237.08	6762.47	237.73	6762.24
237.91	6762.19	238.74	6761.91	239.07	6761.81	239.9	6761.53	240.42	6761.38
241.25	6761.12	241.76	6761.01	242.08	6760.92	242.92	6760.73	245.05	6760.22
246.26	6760.16	247.03	6760.11	248.14	6760.06	248.76	6760.02	249.6	6759.98
250.2	6759.93	252.94	6759.96	254.32	6759.99	255.35	6760.03	255.84	6760.03
256.54	6760.05	257.95	6760.07	260.46	6760.19	261.92	6760.18	262.12	6760.17
263.79	6760.17	264.61	6760.16	265.95	6760.17	266.29	6760.15	267.3	6760.14
268.8	6760.14	269.07	6760.13	269.77	6760.14	270.8	6760.13	272.14	6760.17
273.81	6760.21	274.65	6760.24	275.48	6760.21	276.7	6760.19	277.89	6760.16
279.39	6760.14	280.49	6760.14	281.1	6760.13	283.16	6760.02	283.42	6760.02
285.5	6759.97	286.11	6759.95	287.17	6759.98	288.01	6759.97	289.34	6759.97
289.67	6759.96	291.11	6759.96	293.84	6759.88	294.69	6759.85	296.35	6759.81
299.69	6759.76	300.52	6759.72	301.7	6759.68	302.24	6759.68	303.75	6759.71
308.04	6759.71	309.94	6759.66	312.22	6759.61	313.88	6759.61	314.05	6759.6
316.39	6759.6	317.02	6759.59	319.21	6759.47	319.73	6759.45	320.56	6759.4
321.05	6759.4	321.97	6759.37	325.58	6759.37	327.24	6759.39	328.07	6759.38
328.92	6759.38	329.51	6759.37	331.41	6759.31	331.56	6759.31	333.09	6759.25
333.15	6759.27	333.63	6759.25	334.49	6759.26	337.26	6759.26	339.87	6759.22
341.43	6759.2	343.11	6759.16	343.9	6759.18	344.95	6759.19	345.61	6759.21
348.11	6759.34	349.27	6759.28	351.13	6759.21	351.96	6759.19	353.13	6759.15
353.96	6759.16	354.79	6759.19	355.99	6759.22	357.34	6759.27	358.68	6759.31
360.41	6759.34	361.64	6759.35	362.46	6759.37	363.5	6759.42	364.81	6759.42
365.4	6759.43	366.49	6759.43	368.64	6759.33	369.43	6759.35	370.66	6759.4
371.49	6759.4	372.76	6759.42	373.8	6759.42	374.81	6759.44	375.85	6759.42
377.5	6759.4	378.84	6759.37	380.19	6759.39	382.03	6759.43	383.18	6759.45
384.1	6759.42	385.56	6759.34	387.36	6759.23	388.21	6759.23	389.24	6759.21
390.27	6759.24	390.7	6759.24	391.3	6759.26	392.28	6759.25	393.36	6759.25

393.62	6759.24	395.7	6759.24	396.53	6759.25	398.21	6759.29	399.87	6759.31
401.69	6759.22	404.38	6759.1	404.89	6759.09	406.55	6759.12	407.06	6759.12
408.23	6759.14	409.75	6759.15	411.57	6759.11	412.4	6759.1	413.78	6759.11
414.91	6759.13	416.02	6759.13	417.41	6759.1	417.82	6759.08	418.95	6759.05
420.14	6759.01	421.59	6759.01	421.85	6759.02	424.26	6759.02	425.76	6759.04
427.76	6759.11	428.27	6759.12	429.41	6759.16	430.76	6759.18	432.6	6759.14
434.95	6759.11	435.78	6759.11	436.58	6759.13	437.44	6759.14	437.97	6759.17
438.68	6759.19	440.66	6759.28	441.63	6759.31	442.01	6759.31	444.12	6759.36
445.8	6759.39	446.92	6759.4	448.3	6759.4	448.73	6759.41	450.07	6759.41
451.04	6759.42	451.64	6759.38	453.1	6759.32	454.97	6759.34	455.82	6759.39
456.65	6759.41	458.13	6759.43	461.34	6759.43	461.65	6759.42	462.5	6759.42
463.33	6759.47	463.51	6759.47	464.16	6759.52	464.99	6759.48	465.84	6759.42
466.2	6759.51	466.67	6759.5	468.54	6759.89	470.01	6760.22	470.23	6760.14
470.61	6760.21	470.84	6760.2	471.57	6760.01	471.63	6760.01	472.52	6759.8
472.67	6759.84	472.92	6759.97	473.35	6760.25	473.7	6760.43	474.18	6760.56
474.26	6760.53	474.73	6760.64	475.01	6760.68	475.6	6760.59	475.86	6760.6
476.69	6760.48	477.82	6760.3	478.84	6760.15	479.64	6760.02	480.91	6759.83
480.98	6759.83	481.69	6759.7	481.93	6759.7	483.37	6759.53	483.67	6759.55
484.2	6759.5	485.03	6759.48	486.36	6759.48	486.71	6759.45	487.09	6759.46
488.12	6759.43	488.37	6759.45	489.04	6759.4	489.47	6759.39	491.71	6759.05
491.73	6759.13	492.23	6759.07	492.54	6759.05	493.08	6758.91	495.32	6758.72
495.76	6758.72	495.88	6758.67	496.73	6758.72	497.11	6758.79	497.56	6758.83
499.8	6758.9	502.48	6759.01	503.41	6758.99	503.83	6758.97	505.9	6758.92
506.51	6758.97	506.75	6758.97	507.86	6759.08	508.41	6759.17	509.24	6759.29
510.09	6759.43	511.75	6759.67	511.89	6759.67	512.58	6759.77	512.83	6759.74
514.26	6759.45	515.09	6759.29	515.26	6757.09	516.77	6756.73	530.26	6753.57
548.26	6752.65	548.45	6752.66	570.26	6753.58	609.26	6760.41	610.77	6760.39
611.05	6760.39	623.26	6760.29	673.26	6760.1				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-39.32	.05	516.77	.04	610.77	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	516.77	610.77		30.52 30.51	30.52	.3	.5

BRIDGE

RIVER: Walton Creek
 REACH: lower-main split RS: 3622

INPUT

Description:

Distance from Upstream XS = 12

Deck/Roadway Width = 10

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 8

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
487.24	6759.5		504.24	6760.41		513.24	6761.16	6759.33
536.24	6762.82	6761.01	560.24	6763.55	6761.55	583.24	6762.88	6760.93
607.24	6761.18	6759.3	625.24	6760.29				

Upstream Bridge Cross Section Data

Station	Elevation	Data	num=	488					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-39.32	6761.45	-39.13	6761.44	-38.43	6761.46	-33.75	6761.46	-33.04	6761.45
-31.76	6761.4	-29.25	6761.31	-27.89	6761.25	-27.04	6761.24	-25.69	6761.24
-23.77	6761.31	-21.86	6761.36	-18.4	6761.36	-17.63	6761.37	-17.46	6761.36
-15.89	6761.34	-15.06	6761.32	-13.6	6761.3	-13.47	6761.29	-12.25	6761.28
-10.91	6761.31	-8.22	6761.41	-7.29	6761.44	-5.04	6761.4	-4.23	6761.41
-3.17	6761.41	-2.84	6761.42	-1.51	6761.42	-.16	6761.41	1.98	6761.41
2.47	6761.42	2.53	6761.4	3.87	6761.42	4.59	6761.42	5.22	6761.44
6.1	6761.45	7.49	6761.48	7.91	6761.47	10.22	6761.47	10.59	6761.48
11.66	6761.48	12.28	6761.5	13.28	6761.55	14.63	6761.56	15.83	6761.58
18.34	6761.55	20.52	6761.55	23.34	6761.52	24.03	6761.53	25.02	6761.56
25.38	6761.56	28.76	6761.64	32.53	6761.64	33.91	6761.67	35.87	6761.62
37	6761.6	37.54	6761.6	39.06	6761.58	40.88	6761.65	42.85	6761.68
44.19	6761.71	45.54	6761.71	46.72	6761.72	49.36	6761.75	50.39	6761.72
51.42	6761.7	53.4	6761.65	54.51	6761.65	55.91	6761.69	56.74	6761.73

57.63	6761.75	58.41	6761.78	60.08	6761.82	61.89	6761.82	63.42	6761.8
64.25	6761.78	64.81	6761.78	65.7	6761.74	67.9	6761.67	69.96	6761.59
71.07	6761.56	71.77	6761.55	74.27	6761.49	75.1	6761.51	76.14	6761.56
76.78	6761.6	78.2	6761.67	78.45	6761.69	79.13	6761.66	80.95	6761.62
81.82	6761.62	82.63	6761.61	84.51	6761.56	85.4	6761.53	86.8	6761.51
87.2	6761.52	88.34	6761.52	88.47	6761.53	89.53	6761.53	89.89	6761.54
90.97	6761.54	92.57	6761.56	92.74	6761.57	94.31	6761.59	95.7	6761.59
98.79	6761.67	99.29	6761.66	99.32	6761.68	101.56	6761.65	103.33	6761.65
103.95	6761.66	105.97	6761.71	107.04	6761.71	107.36	6761.73	107.67	6761.71
110.38	6761.9	111.16	6761.96	111.84	6761.97	114.79	6761.97	116.3	6761.94
117.34	6761.84	120.2	6761.58	121.46	6761.42	123.61	6761.25	124.37	6761.18
125.57	6761.25	126.6	6761.3	126.87	6761.29	128.54	6761.26	128.86	6761.26
130.2	6761.23	130.21	6761.28	130.73	6761.26	131.88	6761.31	132.89	6761.29
134.24	6761.32	135.87	6761.37	136.05	6761.37	138.27	6761.42	139.99	6761.47
140.23	6761.47	142.06	6761.53	143.08	6761.44	143.64	6761.38	144.99	6761.26
145.24	6761.23	149.41	6761.23	152.35	6761.02	152.75	6761.01	153.59	6761.01
155.26	6760.99	157.76	6760.97	158.43	6760.95	159.77	6760.93	161.63	6760.89
161.94	6760.89	166.5	6760.78	167.84	6760.73	168.84	6760.76	169.19	6760.76
170.28	6760.79	170.53	6760.77	171.12	6760.77	172.1	6760.74	172.79	6760.73
174.46	6760.65	174.56	6760.68	175.02	6760.66	177.8	6760.7	178.64	6760.7
180.3	6760.65	180.91	6760.64	182.81	6760.58	183.64	6760.58	186.15	6760.55
187.37	6760.53	188	6760.5	190.69	6760.42	191.15	6760.4	192.53	6760.38
194.49	6760.33	196.07	6760.28	197	6760.27	197.41	6760.24	198.54	6760.24
198.67	6760.25	199.51	6760.15	201.44	6760.01	202.01	6759.96	202.95	6759.9
203.85	6759.83	204.88	6759.81	205.35	6759.79	206.19	6759.78	207.85	6759.74
209	6759.7	211.19	6759.91	214.15	6760.21	215.37	6760.38	216.18	6760.48
217.57	6760.7	218.27	6760.82	219.3	6760.98	220.58	6761.5	222.39	6762.14
222.95	6762.33	224.45	6762.87	224.55	6762.88	225.38	6763.15	227.54	6763.77
228.72	6764.12	229.61	6764.24	230.4	6763.99	232.06	6763.45	232.9	6763.19
234.75	6763.02	235.4	6762.86	235.78	6762.78	237.08	6762.47	237.73	6762.24
237.91	6762.19	238.74	6761.91	239.07	6761.81	239.9	6761.53	240.42	6761.38
241.25	6761.12	241.76	6761.01	242.08	6760.92	242.92	6760.73	245.05	6760.22
246.26	6760.16	247.03	6760.11	248.14	6760.06	248.76	6760.02	249.6	6759.98
250.2	6759.93	252.94	6759.96	254.32	6759.99	255.35	6760.03	255.84	6760.03
256.54	6760.05	257.95	6760.07	260.46	6760.19	261.92	6760.18	262.12	6760.17
263.79	6760.17	264.61	6760.16	265.95	6760.17	266.29	6760.15	267.3	6760.14
268.8	6760.14	269.07	6760.13	269.77	6760.14	270.8	6760.13	272.14	6760.17
273.81	6760.21	274.65	6760.24	275.48	6760.21	276.7	6760.19	277.89	6760.16
279.39	6760.14	280.49	6760.14	281.1	6760.13	283.16	6760.02	283.42	6760.02
285.5	6759.97	286.11	6759.95	287.17	6759.98	288.01	6759.97	289.34	6759.97
289.67	6759.96	291.11	6759.96	293.84	6759.88	294.69	6759.85	296.35	6759.81
299.69	6759.76	300.52	6759.72	301.7	6759.68	302.24	6759.68	303.75	6759.71
308.04	6759.71	309.94	6759.66	312.22	6759.61	313.88	6759.61	314.05	6759.6
316.39	6759.6	317.02	6759.59	319.21	6759.47	319.73	6759.45	320.56	6759.4
321.05	6759.4	321.97	6759.37	325.58	6759.37	327.24	6759.39	328.07	6759.38
328.92	6759.38	329.51	6759.37	331.41	6759.31	331.56	6759.31	333.09	6759.25
333.15	6759.27	333.63	6759.25	334.49	6759.26	337.26	6759.26	339.87	6759.22
341.43	6759.2	343.11	6759.16	343.9	6759.18	344.95	6759.19	345.61	6759.21
348.11	6759.34	349.27	6759.28	351.13	6759.21	351.96	6759.19	353.13	6759.15
353.96	6759.16	354.79	6759.19	355.99	6759.22	357.34	6759.27	358.68	6759.31
360.41	6759.34	361.64	6759.35	362.46	6759.37	363.5	6759.42	364.81	6759.42
365.4	6759.43	366.49	6759.43	368.64	6759.33	369.43	6759.35	370.66	6759.4
371.49	6759.4	372.76	6759.42	373.8	6759.42	374.81	6759.44	375.85	6759.42
377.5	6759.4	378.84	6759.37	380.19	6759.39	382.03	6759.43	383.18	6759.45
384.1	6759.42	385.56	6759.34	387.36	6759.23	388.21	6759.23	389.24	6759.21
390.27	6759.24	390.7	6759.24	391.3	6759.26	392.28	6759.25	393.36	6759.25
393.62	6759.24	395.7	6759.24	396.53	6759.25	398.21	6759.29	399.87	6759.31
401.69	6759.22	404.38	6759.1	404.89	6759.09	406.55	6759.12	407.06	6759.12
408.23	6759.14	409.75	6759.15	411.57	6759.11	412.4	6759.1	413.78	6759.11
414.91	6759.13	416.02	6759.13	417.41	6759.1	417.82	6759.08	418.95	6759.05
420.14	6759.01	421.59	6759.01	421.85	6759.02	424.26	6759.02	425.76	6759.04
427.76	6759.11	428.27	6759.12	429.41	6759.16	430.76	6759.18	432.6	6759.14
434.95	6759.11	435.78	6759.11	436.58	6759.13	437.44	6759.14	437.97	6759.17
438.68	6759.19	440.66	6759.28	441.63	6759.31	442.01	6759.31	444.12	6759.36
445.8	6759.39	446.92	6759.4	448.3	6759.4	448.73	6759.41	450.07	6759.41
451.04	6759.42	451.64	6759.38	453.1	6759.32	454.97	6759.34	455.82	6759.39
456.65	6759.41	458.13	6759.43	461.34	6759.43	461.65	6759.42	462.5	6759.42
463.33	6759.47	463.51	6759.47	464.16	6759.52	464.99	6759.48	465.84	6759.42
466.2	6759.51	466.67	6759.5	468.54	6759.89	470.01	6760.22	470.23	6760.14
470.61	6760.21	470.84	6760.2	471.57	6760.01	471.63	6760.01	472.52	6759.8
472.67	6759.84	472.92	6759.97	473.35	6760.25	473.7	6760.43	474.18	6760.56

474.26	6760.53	474.73	6760.64	475.01	6760.68	475.6	6760.59	475.86	6760.6
476.69	6760.48	477.82	6760.3	478.84	6760.15	479.64	6760.02	480.91	6759.83
480.98	6759.83	481.69	6759.7	481.93	6759.7	483.37	6759.53	483.67	6759.55
484.2	6759.5	485.03	6759.48	486.36	6759.48	486.71	6759.45	487.09	6759.46
488.12	6759.43	488.37	6759.45	489.04	6759.4	489.47	6759.39	491.71	6759.05
491.73	6759.13	492.23	6759.07	492.54	6759.05	493.08	6758.91	495.32	6758.72
495.76	6758.72	495.88	6758.67	496.73	6758.72	497.11	6758.79	497.56	6758.83
499.8	6758.9	502.48	6759.01	503.41	6758.99	503.83	6758.97	505.9	6758.92
506.51	6758.97	506.75	6758.97	507.86	6759.08	508.41	6759.17	509.24	6759.29
510.09	6759.43	511.75	6759.67	511.89	6759.67	512.58	6759.77	512.83	6759.74
514.26	6759.45	515.09	6759.29	515.26	6757.09	516.77	6756.73	530.26	6753.57
548.26	6752.65	548.45	6752.66	570.26	6753.58	609.26	6760.41	610.77	6760.39
611.05	6760.39	623.26	6760.29	673.26	6760.1				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-39.32	.05	516.77	.04	610.77	.05

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	516.77	610.77	.3	.5

Downstream Deck/Roadway Coordinates

num= 8

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
561.82	6759.5				578.82	6760.41				587.82	6761.16	6759.33		
610.82	6762.82	6761.01			634.82	6763.55	6761.55			657.82	6762.88	6760.93		
681.82	6761.18	6759.3			699.82	6760.29								

Downstream Bridge Cross Section Data

Station Elevation Data num= 488

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-24.94	6758.55	-23.49	6758.53	-22.35	6758.53	-20.15	6758.51	-19.45	6758.49
-17.24	6758.45	-15.98	6758.45	-14.31	6758.5	-11.81	6758.56	-8.48	6758.56
-7.64	6758.57	-7.34	6758.55	-6.81	6758.55	-3.95	6758.48	-2.93	6758.46
-1.81	6758.46	-1.14	6758.49	1.53	6758.54	2.36	6758.58	4.86	6758.65
6.53	6758.64	8.52	6758.62	10.37	6758.58	10.7	6758.58	12.48	6758.54
13.2	6758.53	14.04	6758.54	14.45	6758.56	17.37	6758.65	18.54	6758.74
20.42	6758.72	21.54	6758.72	22.37	6758.68	23.66	6758.63	25.71	6758.66
26.73	6758.71	27.37	6758.73	28.78	6758.8	29.66	6758.81	30.99	6758.81
32.86	6758.79	34.04	6758.79	34.75	6758.8	36.54	6758.86	37.38	6758.88
38.92	6758.93	39.88	6758.94	41.56	6758.94	42.06	6758.95	43.09	6758.95
43.22	6758.96	44.2	6758.96	44.88	6758.97	46.16	6758.97	48.17	6759.02
49.89	6759.08	51.26	6759.15	54.34	6759.36	54.88	6759.38	56.38	6759.37
57.43	6759.35	58.23	6759.32	59.45	6759.29	60.72	6759.21	61.39	6759.18
63.22	6759.07	63.54	6759.08	65.59	6759.08	65.72	6759.09	67.39	6759.09
68.65	6759.13	69.67	6759.17	70.87	6759.23	73.28	6759.37	74.9	6759.48
75.73	6759.51	77.25	6759.51	77.4	6759.5	79.07	6759.5	79.9	6759.49
84.06	6759.49	85.01	6759.56	86.03	6759.55	87.06	6759.53	88.23	6759.52
89.91	6759.48	92.4	6759.48	93.46	6759.46	95.23	6759.44	96.57	6759.6
97.08	6759.59	97.28	6759.61	99.32	6759.61	100.35	6759.62	100.74	6759.57
101.05	6759.57	102.48	6759.47	104.91	6759.37	105.46	6759.37	106.58	6759.39
108.53	6759.44	108.98	6759.47	109.08	6759.45	110.57	6759.59	112.62	6759.82
112.94	6759.81	113.25	6759.89	114.92	6759.77	115.75	6759.72	116.59	6759.69
116.91	6759.69	117.41	6759.66	119.78	6759.77	120.75	6759.81	121.58	6759.86
123.26	6759.94	123.87	6759.96	125.75	6760.05	126.59	6760.03	128.25	6760.01
129.92	6759.98	131.6	6759.98	132.42	6759.96	134.1	6759.94	136.13	6759.98
137.16	6759.98	137.43	6759.99	138.62	6759.99	139.93	6760	140.22	6760.01
142.02	6760.01	143.13	6759.98	144.93	6759.91	145.77	6759.87	146.6	6759.85
147.3	6759.88	148.63	6759.91	150.77	6759.98	151.27	6759.98	154.94	6760.03
156.69	6760.03	157.88	6760.01	159.11	6760	161.84	6760	163.28	6760.03
164.94	6760.1	165.81	6760.13	166.81	6760.18	168.28	6760.16	169.11	6760.16
171.1	6760.14	173.28	6760.09	173.74	6760.09	175.07	6760.06	177.04	6760.03
178.06	6760.02	179.12	6760.02	180.1	6760.01	182.99	6759.95	183.17	6759.94
186.96	6759.88	188.29	6759.85	190.33	6759.73	190.92	6759.69	192.38	6759.61
196.63	6759.51	197.54	6759.52	198.86	6759.47	200.8	6759.41	203.62	6759.38
204.96	6759.37	206.36	6759.35	207.72	6759.34	208.73	6759.35	212.08	6759.4
212.82	6759.39	213.3	6759.52	213.39	6759.43	214.13	6759.6	214.72	6759.82
214.97	6759.88	215.4	6759.76	215.81	6759.71	216.04	6759.77	216.63	6760.18
216.91	6760.21	217.36	6760.38	217.47	6760.05	217.94	6760.3	218.3	6760.66
218.69	6760.43	218.96	6760.65	219.14	6760.61	220.8	6760.17	221.64	6759.96
222.03	6759.85	223.06	6759.59	224.42	6759.57	225.81	6759.54	226.64	6759.51

227.14	6759.48	228.16	6759.44	229.26	6759.76	230.21	6760.05	232.48	6760.76
233.31	6761.03	234.15	6761.26	235.81	6761.49	237.19	6761.67	238.31	6761.83
238.51	6761.85	240.44	6761.78	241.46	6761.75	242.49	6761.71	243.31	6761.61
244.53	6761.48	244.99	6761.44	246.65	6761.26	247.48	6760.95	248.62	6760.54
250.41	6760.22	250.82	6760.14	251.52	6760.06	253.72	6759.79	254.99	6759.7
256.04	6759.64	257.01	6759.57	259.16	6759.44	259.66	6759.47	259.98	6759.46
260.82	6759.49	262.3	6759.56	262.49	6759.56	264.15	6759.64	264.95	6759.63
265.83	6759.69	266.27	6759.7	267.59	6759.78	268.91	6759.85	270	6759.83
271.55	6759.78	274.11	6759.67	275.52	6759.67	275.83	6759.68	278.33	6759.68
279.48	6759.69	281.34	6759.72	282.5	6759.73	283.38	6759.75	284.78	6759.77
285.43	6759.77	288.34	6759.81	289.18	6759.83	290	6759.83	292.17	6759.8
293.34	6759.79	294.63	6759.79	295.65	6759.82	296.67	6759.84	299.74	6759.84
300.63	6759.9	301.68	6759.94	301.96	6759.94	303.84	6760.01	305.01	6760.04
306.68	6760.02	307.25	6760.02	309.18	6759.99	310.23	6760	313.86	6760.08
314.19	6760.08	315.01	6760.11	316.68	6760.21	317.52	6760.27	319.26	6760.33
320.46	6760.38	321.69	6760.45	321.79	6760.47	322.52	6760.52	325.31	6760.77
326.32	6760.79	328.39	6760.79	329.4	6760.78	332.53	6760.82	333.48	6760.84
333.68	6760.86	334.19	6760.85	335.53	6761	336.7	6761.04	338.6	6761.12
340.86	6761.23	341.84	6761.27	343.37	6761.35	344.19	6761.38	346.36	6761.49
346.9	6761.5	348.22	6761.46	350.87	6761.4	351.88	6761.4	352.18	6761.39
361.09	6761.39	363.37	6761.32	364.21	6761.27	365.41	6761.21	366.2	6761.16
367.22	6761.15	368.94	6761.15	369.21	6761.14	370.88	6761.14	371.32	6761.13
375.41	6760.86	375.98	6760.83	378.38	6760.66	379.5	6760.57	379.95	6760.48
380.05	6760.53	381.71	6760.12	383.39	6759.66	383.91	6759.55	384.22	6759.44
386.55	6759.09	388.38	6759.02	390.05	6758.9	390.75	6758.86	391.53	6758.8
392.55	6758.75	394.49	6759	396.03	6759.19	396.72	6759.23	397.13	6759.34
400.89	6759.97	402	6760.24	403.39	6760.29	404.23	6760.33	405.9	6760.39
407.1	6760.42	407.7	6760.45	409.02	6760.5	409.59	6760.5	412.22	6760.46
413.24	6760.48	415.63	6760.61	419.24	6760.83	419.6	6760.84	420.4	6760.89
421.73	6760.95	422.44	6760.95	423.56	6760.89	424.49	6760.83	425.9	6760.75
426.2	6760.77	426.53	6760.75	427.65	6760.77	429.6	6760.82	435.46	6760.91
435.91	6760.91	438.1	6760.94	438.41	6760.96	440.74	6761.03	442.9	6761.08
444.71	6761.06	445.72	6761.06	445.92	6761.05	448.68	6761.03	450.91	6761
451.75	6761	453.12	6760.98	453.97	6760.95	455.28	6760.88	456.19	6760.85
457.21	6760.8	458.23	6760.76	459.25	6760.7	459.26	6760.69	460.28	6760.64
462.32	6760.52	463.34	6760.47	465.1	6760.49	465.86	6760.51	466.41	6760.51
467.59	6760.53	468.3	6760.56	470.5	6760.58	470.93	6760.59	472.81	6760.58
473.43	6760.56	474.59	6760.57	475.62	6760.59	476.76	6760.6	477.76	6760.62
479.27	6760.64	480.1	6760.66	481.72	6760.68	481.85	6760.69	483.44	6760.71
485.69	6760.76	487.6	6760.81	488.44	6760.82	488.91	6760.84	492.61	6760.75
493.62	6760.74	495.1	6760.74	495.39	6760.73	496.78	6760.73	497.09	6760.72
498.44	6760.72	498.9	6760.71	500.23	6760.71	501.77	6760.69	504.19	6760.65
505.12	6760.66	507.31	6760.64	508.45	6760.64	510.11	6760.62	510.8	6760.62
511.78	6760.6	513.44	6760.59	514.47	6760.59	516.09	6760.52	517.41	6760.48
518.45	6760.43	519.59	6760.39	520.6	6760.27	520.95	6760.24	521.79	6760.14
523.68	6759.97	524.69	6759.87	525.96	6759.86	527.98	6759.76	529.81	6759.68
530.83	6759.62	531.79	6759.55	533.46	6759.45	539.01	6759.08	539.29	6759.05
540.97	6758.94	542.62	6758.86	545.06	6758.92	545.93	6758.89	546.04	6758.91
546.69	6758.87	547.5	6759.05	548.87	6759.33	549.94	6759.56	550.28	6759.6
550.76	6759.74	551.1	6759.75	551.57	6759.71	551.69	6759.77	552.14	6759.75
552.39	6759.79	553.1	6759.78	553.32	6759.81	554.52	6759.93	554.83	6759.97
555.64	6760.03	556.46	6760.06	560.52	6760.16	561.34	6760.19	562.46	6760.21
564.59	6760.27	565.41	6760.28	568.64	6760.36	569.48	6760.36	570.72	6760.42
571.92	6760.49	573.55	6760.57	575.88	6760.7	576.8	6760.74	578.43	6760.83
579.24	6760.86	580.87	6760.97	582.49	6761.06	583.11	6761.11	585.09	6761.22
586.57	6761.31	586.68	6760.14	605.68	6753.72	616.97	6753.35	617.68	6753.33
633.68	6753.62	656.68	6754.82	685.81	6759.91	686.09	6759.96	687.68	6760.24
700.68	6760.29	710.67	6760.03	750.68	6760.1				

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
-24.94	.05	585.09	.04
		686.09	.05

Bank Sta: Left	Right	Coeff Contr.	Expan.
585.09	686.09	.3	.5

Upstream Embankment side slope	=	0 horiz. to 1.0 vertical
Downstream Embankment side slope	=	0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.95
Elevation at which weir flow begins	=	
Energy head used in spillway design	=	

Spillway height used in design =
Weir crest shape = Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 3609

INPUT

Description:

Station Elevation Data		num=		488					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-24.94	6758.55	-23.49	6758.53	-22.35	6758.53	-20.15	6758.51	-19.45	6758.49
-17.24	6758.45	-15.98	6758.45	-14.31	6758.5	-11.81	6758.56	-8.48	6758.56
-7.64	6758.57	-7.34	6758.55	-6.81	6758.55	-3.95	6758.48	-2.93	6758.46
-1.81	6758.46	-1.14	6758.49	1.53	6758.54	2.36	6758.58	4.86	6758.65
6.53	6758.64	8.52	6758.62	10.37	6758.58	10.7	6758.58	12.48	6758.54
13.2	6758.53	14.04	6758.54	14.45	6758.56	17.37	6758.65	18.54	6758.74
20.42	6758.72	21.54	6758.72	22.37	6758.68	23.66	6758.63	25.71	6758.66
26.73	6758.71	27.37	6758.73	28.78	6758.8	29.66	6758.81	30.99	6758.81
32.86	6758.79	34.04	6758.79	34.75	6758.8	36.54	6758.86	37.38	6758.88
38.92	6758.93	39.88	6758.94	41.56	6758.94	42.06	6758.95	43.09	6758.95
43.22	6758.96	44.2	6758.96	44.88	6758.97	46.16	6758.97	48.17	6759.02
49.89	6759.08	51.26	6759.15	54.34	6759.36	54.88	6759.38	56.38	6759.37
57.43	6759.35	58.23	6759.32	59.45	6759.29	60.72	6759.21	61.39	6759.18
63.22	6759.07	63.54	6759.08	65.59	6759.08	65.72	6759.09	67.39	6759.09
68.65	6759.13	69.67	6759.17	70.87	6759.23	73.28	6759.37	74.9	6759.48
75.73	6759.51	77.25	6759.51	77.4	6759.5	79.07	6759.5	79.9	6759.49
84.06	6759.49	85.01	6759.56	86.03	6759.55	87.06	6759.53	88.23	6759.52
89.91	6759.48	92.4	6759.48	93.46	6759.46	95.23	6759.44	96.57	6759.6
97.08	6759.59	97.28	6759.61	99.32	6759.61	100.35	6759.62	100.74	6759.57
101.05	6759.57	102.48	6759.47	104.91	6759.37	105.46	6759.37	106.58	6759.39
108.53	6759.44	108.98	6759.47	109.08	6759.45	110.57	6759.59	112.62	6759.82
112.94	6759.81	113.25	6759.89	114.92	6759.77	115.75	6759.72	116.59	6759.69
116.91	6759.69	117.41	6759.66	119.78	6759.77	120.75	6759.81	121.58	6759.86
123.26	6759.94	123.87	6759.96	125.75	6760.05	126.59	6760.03	128.25	6760.01
129.92	6759.98	131.6	6759.98	132.42	6759.96	134.1	6759.94	136.13	6759.98
137.16	6759.98	137.43	6759.99	138.62	6759.99	139.93	6760	140.22	6760.01
142.02	6760.01	143.13	6759.98	144.93	6759.91	145.77	6759.87	146.6	6759.85
147.3	6759.88	148.63	6759.91	150.77	6759.98	151.27	6759.98	154.94	6760.03
156.69	6760.03	157.88	6760.01	159.11	6760	161.84	6760	163.28	6760.03
164.94	6760.1	165.81	6760.13	166.81	6760.18	168.28	6760.16	169.11	6760.16
171.1	6760.14	173.28	6760.09	173.74	6760.09	175.07	6760.06	177.04	6760.03
178.06	6760.02	179.12	6760.02	180.1	6760.01	182.99	6759.95	183.17	6759.94
186.96	6759.88	188.29	6759.85	190.33	6759.73	190.92	6759.69	192.38	6759.61
196.63	6759.51	197.54	6759.52	198.86	6759.47	200.8	6759.41	203.62	6759.38
204.96	6759.37	206.36	6759.35	207.72	6759.34	208.73	6759.35	212.08	6759.4
212.82	6759.39	213.3	6759.52	213.39	6759.43	214.13	6759.6	214.72	6759.82
214.97	6759.88	215.4	6759.76	215.81	6759.71	216.04	6759.77	216.63	6760.18
216.91	6760.21	217.36	6760.38	217.47	6760.05	217.94	6760.3	218.3	6760.66
218.69	6760.43	218.96	6760.65	219.14	6760.61	220.8	6760.17	221.64	6759.96
222.03	6759.85	223.06	6759.59	224.42	6759.57	225.81	6759.54	226.64	6759.51
227.14	6759.48	228.16	6759.44	229.26	6759.76	230.21	6760.05	232.48	6760.76
233.31	6761.03	234.15	6761.26	235.81	6761.49	237.19	6761.67	238.31	6761.83

238.51	6761.85	240.44	6761.78	241.46	6761.75	242.49	6761.71	243.31	6761.61
244.53	6761.48	244.99	6761.44	246.65	6761.26	247.48	6760.95	248.62	6760.54
250.41	6760.22	250.82	6760.14	251.52	6760.06	253.72	6759.79	254.99	6759.7
256.04	6759.64	257.01	6759.57	259.16	6759.44	259.66	6759.47	259.98	6759.46
260.82	6759.49	262.3	6759.56	262.49	6759.56	264.15	6759.64	264.95	6759.63
265.83	6759.69	266.27	6759.7	267.59	6759.78	268.91	6759.85	270	6759.83
271.55	6759.78	274.11	6759.67	275.52	6759.67	275.83	6759.68	278.33	6759.68
279.48	6759.69	281.34	6759.72	282.5	6759.73	283.38	6759.75	284.78	6759.77
285.43	6759.77	288.34	6759.81	289.18	6759.83	290	6759.83	292.17	6759.8
293.34	6759.79	294.63	6759.79	295.65	6759.82	296.67	6759.84	299.74	6759.84
300.63	6759.9	301.68	6759.94	301.96	6759.94	303.84	6760.01	305.01	6760.04
306.68	6760.02	307.25	6760.02	309.18	6759.99	310.23	6760	313.86	6760.08
314.19	6760.08	315.01	6760.11	316.68	6760.21	317.52	6760.27	319.26	6760.33
320.46	6760.38	321.69	6760.45	321.79	6760.47	322.52	6760.52	325.31	6760.77
326.32	6760.79	328.39	6760.79	329.4	6760.78	332.53	6760.82	333.48	6760.84
333.68	6760.86	334.19	6760.85	335.53	6761	336.7	6761.04	338.6	6761.12
340.86	6761.23	341.84	6761.27	343.37	6761.35	344.19	6761.38	346.36	6761.49
346.9	6761.5	348.22	6761.46	350.87	6761.4	351.88	6761.4	352.18	6761.39
361.09	6761.39	363.37	6761.32	364.21	6761.27	365.41	6761.21	366.2	6761.16
367.22	6761.15	368.94	6761.15	369.21	6761.14	370.88	6761.14	371.32	6761.13
375.41	6760.86	375.98	6760.83	378.38	6760.66	379.5	6760.57	379.95	6760.48
380.05	6760.53	381.71	6760.12	383.39	6759.66	383.91	6759.55	384.22	6759.44
386.55	6759.02	388.38	6759.02	390.05	6758.9	390.75	6758.86	391.53	6758.8
392.55	6758.75	394.49	6759	396.03	6759.19	396.72	6759.23	397.13	6759.34
400.89	6759.97	402	6760.24	403.39	6760.29	404.23	6760.33	405.9	6760.39
407.1	6760.42	407.7	6760.45	409.02	6760.5	409.59	6760.5	412.22	6760.46
413.24	6760.48	415.63	6760.61	419.24	6760.83	419.6	6760.84	420.4	6760.89
421.73	6760.95	422.44	6760.95	423.56	6760.89	424.49	6760.83	425.9	6760.75
426.2	6760.77	426.53	6760.75	427.65	6760.77	429.6	6760.82	435.46	6760.91
435.91	6760.91	438.1	6760.94	438.41	6760.96	440.74	6761.03	442.9	6761.08
444.71	6761.06	445.72	6761.06	445.92	6761.05	448.68	6761.03	450.91	6761
451.75	6761	453.12	6760.98	453.97	6760.95	455.28	6760.88	456.19	6760.85
457.21	6760.8	458.23	6760.76	459.25	6760.7	459.26	6760.69	460.28	6760.64
462.32	6760.52	463.34	6760.47	465.1	6760.49	465.86	6760.51	466.41	6760.51
467.59	6760.53	468.3	6760.56	470.5	6760.58	470.93	6760.59	472.81	6760.58
473.43	6760.56	474.59	6760.57	475.62	6760.59	476.76	6760.6	477.76	6760.62
479.27	6760.64	480.1	6760.66	481.72	6760.68	481.85	6760.69	483.44	6760.71
485.69	6760.76	487.6	6760.81	488.44	6760.82	488.91	6760.84	492.61	6760.75
493.62	6760.74	495.1	6760.74	495.39	6760.73	496.78	6760.73	497.09	6760.72
498.44	6760.72	498.9	6760.71	500.23	6760.71	501.77	6760.69	504.19	6760.65
505.12	6760.66	507.31	6760.64	508.45	6760.64	510.11	6760.62	510.8	6760.62
511.78	6760.6	513.44	6760.59	514.47	6760.59	516.09	6760.52	517.41	6760.48
518.45	6760.43	519.59	6760.39	520.6	6760.27	520.95	6760.24	521.79	6760.14
523.68	6759.97	524.69	6759.87	525.96	6759.86	527.98	6759.76	529.81	6759.68
530.83	6759.62	531.79	6759.55	533.46	6759.45	539.01	6759.08	539.29	6759.05
540.97	6758.94	542.62	6758.86	545.06	6758.92	545.93	6758.89	546.04	6758.91
546.69	6758.87	547.5	6759.05	548.87	6759.33	549.94	6759.56	550.28	6759.6
550.76	6759.74	551.1	6759.75	551.57	6759.71	551.69	6759.77	552.14	6759.75
552.39	6759.79	553.1	6759.78	553.32	6759.81	554.52	6759.93	554.83	6759.97
555.64	6760.03	556.46	6760.06	560.52	6760.16	561.34	6760.19	562.46	6760.21
564.59	6760.27	565.41	6760.28	568.64	6760.36	569.48	6760.36	570.72	6760.42
571.92	6760.49	573.55	6760.57	575.88	6760.7	576.8	6760.74	578.43	6760.83
579.24	6760.86	580.87	6760.97	582.49	6761.06	583.11	6761.11	585.09	6761.22
586.57	6761.31	586.68	6760.14	605.68	6753.72	616.97	6753.35	617.68	6753.33
633.68	6753.62	656.68	6754.82	685.81	6759.91	686.09	6759.96	687.68	6760.24
700.68	6760.29	710.67	6760.03	750.68	6760.1				

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
-24.94	.05	585.09	.04	686.09	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
585.09	686.09	221.26	221.27	221.26		.3	.5

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3379

INPUT

Description:

Station Elevation Data				num= 489							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-151.32	6759.34	-151	6759.41	-149.62	6759.45	-149.37	6759.45	-147.98	6759.48		
-145.97	6759.48	-145.51	6759.47	-143.32	6759.47	-142.62	6759.46	-142.27	6759.44		
-141.66	6759.44	-141.22	6759.43	-140.69	6759.43	-139.73	6759.41	-138.93	6759.41		
-138.76	6759.4	-138.07	6759.4	-137.93	6759.39	-137.02	6759.44	-136.84	6759.44		
-132.98	6759.48	-131.76	6759.48	-131.05	6759.5	-130.71	6759.5	-129.88	6759.53		
-129.66	6759.53	-129.03	6759.55	-128.02	6759.45	-127.27	6759.47	-126.97	6759.47		
-126.3	6759.49	-125.92	6759.49	-125.34	6759.51	-124.87	6759.51	-124.11	6759.53		
-123.82	6759.53	-123.1	6759.55	-122.44	6759.55	-122.1	6759.56	-120.52	6759.56		
-120.09	6759.57	-118.57	6759.57	-118.08	6759.58	-117.52	6759.56	-116.66	6759.54		
-115.7	6759.51	-115.42	6759.51	-113.05	6759.44	-112.26	6759.46	-111.84	6759.48		
-110.16	6759.53	-109.91	6759.53	-109.11	6759.56	-108.95	6759.56	-108.06	6759.59		
-107.1	6759.6	-107.02	6759.61	-105.96	6759.62	-105.09	6759.64	-104	6759.65		
-103.86	6759.66	-102.81	6759.67	-102.2	6759.69	-101.76	6759.69	-100.98	6759.71		
-100.7	6759.71	-99.97	6759.73	-98.97	6759.74	-98.34	6759.76	-97.55	6759.76		
-97.37	6759.75	-94.48	6759.69	-93.94	6759.67	-93.52	6759.67	-92.93	6759.65		
-92.55	6759.66	-91.93	6759.66	-91.59	6759.67	-90.92	6759.67	-90.62	6759.68		
-89.92	6759.68	-89.66	6759.69	-88.7	6759.69	-87.73	6759.7	-87.05	6759.73		
-86.77	6759.73	-84.94	6759.75	-84.84	6759.76	-82.84	6759.78	-81.95	6759.76		
-81.79	6759.75	-80.74	6759.75	-80.02	6759.74	-78.85	6759.74	-78.64	6759.73		
-77.59	6759.73	-76.84	6759.74	-76.16	6759.76	-75.2	6759.77	-74.44	6759.79		
-74.23	6759.79	-72.82	6759.82	-71.82	6759.82	-71.34	6759.81	-71.28	6759.82		
-70.81	6759.81	-69.8	6759.81	-69.41	6759.8	-68.13	6759.8	-66.52	6759.77		
-66.03	6759.77	-64.98	6759.75	-64.59	6759.75	-62.88	6759.73	-61.7	6759.73		
-60.78	6759.72	-59.73	6759.72	-57.84	6759.7	-56.87	6759.71	-56.73	6759.72		
-55.72	6759.73	-55.52	6759.74	-54.72	6759.74	-54.47	6759.75	-53.42	6759.75		
-52.71	6759.76	-52.37	6759.75	-51.7	6759.75	-51.32	6759.74	-50.7	6759.74		
-49.69	6759.72	-49.16	6759.72	-48.2	6759.7	-47.68	6759.7	-46.67	6759.68		
-46.07	6759.68	-45.3	6759.67	-45.02	6759.66	-43.96	6759.66	-43.66	6759.65		
-42.65	6759.65	-41.86	6759.62	-40.81	6759.6	-40.48	6759.6	-39.76	6759.57		
-39.52	6759.57	-38.71	6759.6	-38.55	6759.6	-37.59	6759.63	-36.81	6759.66		
-35.66	6759.71	-35.56	6759.72	-34.51	6759.76	-33.73	6759.73	-33.46	6759.73		
-32.77	6759.71	-31.8	6759.7	-30.84	6759.7	-30.58	6759.69	-29.58	6759.69		
-28.91	6759.67	-28.57	6759.67	-27.57	6759.65	-27.15	6759.66	-26.56	6759.66		
-25.56	6759.68	-25.05	6759.68	-24.55	6759.69	-24.09	6759.71	-24	6759.7		
-23.13	6759.73	-22.54	6759.76	-21.9	6759.75	-20.85	6759.72	-20.53	6759.72		
-19.8	6759.7	-19.27	6759.7	-18.75	6759.68	-18.3	6759.68	-17.7	6759.69		
-16.38	6759.69	-15.59	6759.7	-14.45	6759.7	-13.38	6759.71	-12.44	6759.68		
-11.55	6759.71	-11.39	6759.71	-8.66	6759.79	-8.24	6759.8	-7.7	6759.79		
-7.19	6759.8	-6.14	6759.8	-5.77	6759.81	-4.44	6759.81	-4.04	6759.82		
-2.99	6759.82	-2.88	6759.83	-2.43	6759.83	-1.93	6759.84	-.41	6759.84		
.02	6759.85	1.6	6759.85	1.95	6759.86	4.84	6759.86	5.42	6759.85		
7.73	6759.85	8.7	6759.84	9.62	6759.82	10.05	6759.82	10.67	6759.81		
12.55	6759.79	12.66	6759.78	17.37	6759.78	17.69	6759.77	18.03	6759.78		
18.34	6759.76	18.69	6759.77	19.08	6759.75	19.3	6759.75	20.13	6759.73		
20.27	6759.72	21.23	6759.7	21.71	6759.68	22.72	6759.66	23.16	6759.67		
23.28	6759.65	23.72	6759.67	24.33	6759.68	25.09	6759.7	26.74	6759.75		
27.02	6759.75	27.49	6759.77	27.98	6759.77	28.54	6759.82	29.76	6759.82		
29.91	6759.81	32.8	6759.81	33.79	6759.78	34.84	6759.76	35.69	6759.74		
35.89	6759.74	36.94	6759.71	37.8	6759.7	38.59	6759.65	39.04	6759.63		
39.55	6759.62	39.81	6759.6	41.15	6759.56	41.48	6759.54	42.83	6759.5		
43.25	6759.51	43.83	6759.51	44.3	6759.52	44.37	6759.53	44.84	6759.53		
45.34	6759.55	47.27	6759.59	47.86	6759.61	48.86	6759.58	49.19	6759.58		
49.55	6759.56	50.16	6759.55	50.6	6759.55	52.7	6759.51	53.05	6759.51		
54.02	6759.48	54.98	6759.46	56.91	6759.4	57.87	6759.38	58.84	6759.29		
59.01	6759.28	59.92	6759.2	60.06	6759.18	60.77	6759.19	61.73	6759.17		
62.94	6759.17	64.26	6759.08	65.96	6758.98	67.97	6758.84	68.48	6758.81		
68.98	6758.77	69.52	6758.74	69.98	6758.7	70.99	6758.63	71.99	6758.57		
72.34	6758.54	73.3	6758.48	73.72	6758.46	74.77	6758.4	75.23	6758.38		
75.82	6758.37	76.19	6758.35	77.92	6758.3	78.97	6758.26	79.09	6758.25		
81.01	6758.17	81.04	6758.16	81.98	6758.16	82.05	6758.15	83.18	6758.14		
84.23	6758.11	85.84	6758.08	86.33	6758.06	86.8	6758.03	87.08	6758.03		
87.76	6757.99	89.09	6757.95	89.48	6757.93	90.09	6757.92	90.53	6757.9		
91.1	6757.89	91.58	6757.87	91.62	6757.88	92.11	6757.87	92.63	6757.87		
93.11	6757.86	93.68	6757.86	94.12	6757.85	94.73	6757.85	95.48	6757.84		
95.79	6757.83	96.44	6757.83	96.84	6757.82	97.41	6757.82	98.14	6757.81		
98.37	6757.8	99.34	6757.78	100.3	6757.75	101.04	6757.74	101.26	6757.73		
102.23	6757.71	103.19	6757.68	103.78	6757.64	105.12	6757.54	105.24	6757.54		
106.09	6757.48	106.29	6757.46	107.34	6757.39	108.01	6757.33	108.39	6757.31		

Station Elevation Data				num=		486					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev		
-142.73	6759.51	-141.34	6759.54	-140.72	6759.56	-140.34	6759.56	-139.34	6759.59		
-138.88	6759.59	-138.8	6759.58	-137.34	6759.58	-136.88	6759.57	-135.34	6759.57		
-134.96	6759.56	-134.34	6759.56	-133.05	6759.52	-132.6	6759.5	-132.33	6759.5		
-131.33	6759.46	-131.13	6759.46	-130.51	6759.43	-129.47	6759.42	-128.42	6759.46		
-127.38	6759.51	-127.29	6759.52	-126.32	6759.56	-125.37	6759.61	-124.41	6759.62		
-123.45	6759.62	-123.33	6759.61	-122.15	6759.61	-121.53	6759.6	-120.53	6759.6		
-119.69	6759.57	-119.48	6759.57	-118.73	6759.54	-118.44	6759.52	-117.77	6759.5		
-117.39	6759.48	-116.81	6759.5	-116.59	6759.49	-116.35	6759.5	-114.59	6759.53		
-112.98	6759.53	-112.16	6759.56	-112.02	6759.54	-111.12	6759.59	-110.59	6759.61		
-109.59	6759.67	-109.03	6759.65	-107.98	6759.63	-106.58	6759.59	-106.26	6759.59		
-104.58	6759.54	-102.42	6759.54	-101.71	6759.53	-100.66	6759.56	-100.5	6759.57		
-99.62	6759.59	-99.55	6759.6	-98.73	6759.63	-97.63	6759.68	-97.53	6759.68		
-96.48	6759.73	-95.44	6759.74	-94.75	6759.76	-94.39	6759.76	-93.35	6759.78		
-92.83	6759.78	-91.26	6759.81	-90.21	6759.82	-89.58	6759.84	-88.99	6759.83		
-87.07	6759.79	-86.57	6759.79	-85.16	6759.76	-84.57	6759.74	-83.57	6759.76		
-83.24	6759.76	-82.28	6759.78	-81.85	6759.78	-80.8	6759.8	-80.36	6759.8		
-79.4	6759.81	-78.44	6759.85	-77.67	6759.87	-76.52	6759.91	-75.57	6759.95		
-74.53	6759.96	-73.64	6759.94	-73.48	6759.93	-72.68	6759.92	-72.44	6759.91		
-71.72	6759.9	-70.76	6759.88	-70.56	6759.87	-69.81	6759.87	-69.56	6759.86		
-69.3	6759.87	-68.85	6759.87	-67.21	6759.9	-66.56	6759.9	-65.56	6759.92		

-65.12	6759.92	-65.01	6759.93	-64.56	6759.93	-64.07	6759.94	-59.56	6759.94
-58.85	6759.92	-58.29	6759.92	-57.56	6759.9	-56.37	6759.89	-55.41	6759.87
-52.54	6759.84	-52.11	6759.83	-50.48	6759.83	-49.55	6759.82	-49.44	6759.83
-48.7	6759.84	-47.74	6759.87	-46.78	6759.89	-46.55	6759.89	-45.26	6759.93
-44.86	6759.93	-44.21	6759.95	-43.9	6759.94	-43.55	6759.95	-42.12	6759.95
-41.98	6759.94	-40.03	6759.94	-39.55	6759.93	-39.11	6759.93	-38.99	6759.91
-38.55	6759.9	-37.55	6759.9	-37.19	6759.89	-36.23	6759.89	-35.85	6759.88
-34.8	6759.88	-34.31	6759.87	-33.76	6759.83	-31.67	6759.77	-31.43	6759.77
-30.62	6759.75	-30.47	6759.74	-29.58	6759.72	-28.53	6759.73	-27.59	6759.78
-26.63	6759.82	-25.67	6759.87	-24.54	6759.92	-23.76	6759.92	-23.54	6759.91
-22.54	6759.91	-22.26	6759.9	-21.21	6759.9	-20.88	6759.89	-19.92	6759.89
-19.54	6759.88	-18.08	6759.88	-18	6759.89	-17.54	6759.89	-17.04	6759.9
-16.54	6759.9	-16.08	6759.91	-15.54	6759.91	-14.53	6759.93	-13.2	6759.93
-12.85	6759.94	-12.24	6759.93	-11.53	6759.91	-11.28	6759.91	-9.71	6759.88
-8.67	6759.88	-8.53	6759.88	-6.58	6759.91	-5.53	6759.91	-5.48	6759.92
-4.49	6759.92	-3.61	6759.91	-2.65	6759.91	-2.4	6759.9	-1.69	6759.93
-1.35	6759.93	-.31	6759.96	.23	6759.98	.47	6759.98	.74	6760
1.79	6760.04	2.83	6760.09	3.11	6760.08	3.47	6760.1	4.48	6760.1
4.92	6760.11	5.48	6760.11	8.06	6760.06	9.1	6760.06	9.48	6760.07
12.48	6760.07	12.7	6760.06	15.58	6760.06	16.54	6760.05	17.47	6760.03
17.83	6760.03	18.46	6760.01	19.42	6760	19.56	6759.99	20.37	6759.98
20.48	6759.97	22.29	6759.97	22.49	6759.96	25.83	6759.96	27.92	6760.02
28.97	6760.04	29.01	6760.02	29.49	6760.03	29.97	6760.02	30.01	6760.01
30.49	6760	31.06	6760	31.49	6759.99	32.49	6759.99	32.85	6759.98
33.49	6759.98	33.81	6759.99	34.19	6759.97	35.24	6760	35.72	6760.02
36.68	6760.07	37.64	6760.13	38.6	6760.18	39.42	6760.23	40.52	6760.22
43.4	6760.13	43.6	6760.13	44.65	6760.09	45.5	6760.08	46.74	6760
47.24	6759.98	47.78	6759.94	48.2	6759.92	49.87	6759.82	50.11	6759.82
50.5	6759.8	51.5	6759.82	52.03	6759.82	52.99	6759.84	53.5	6759.84
55.5	6759.88	57.19	6759.83	57.5	6759.83	58.24	6759.81	58.75	6759.79
59.71	6759.77	60.33	6759.75	60.67	6759.75	61.63	6759.72	62.42	6759.7
63.46	6759.68	63.55	6759.67	64.51	6759.65	65.56	6759.62	66.42	6759.53
66.6	6759.52	67.38	6759.45	67.65	6759.42	68.69	6759.33	70.26	6759.18
70.78	6759.14	71.22	6759.12	71.51	6759.09	72.87	6759.01	73.92	6758.94
74.51	6758.91	75.51	6758.84	76.01	6758.82	76.02	6758.81	76.98	6758.75
77.05	6758.74	78.1	6758.67	78.9	6758.61	79.15	6758.6	80.52	6758.5
81.77	6758.46	82.73	6758.44	85.61	6758.35	86.57	6758.33	87.51	6758.28
88.55	6758.24	90.65	6758.14	91.52	6758.11	92.33	6758.1	92.74	6758.08
93.52	6758.07	94.52	6758.04	94.83	6758.04	95.52	6758.02	96.92	6757.95
97.12	6757.95	98.08	6757.91	99.01	6757.89	99.04	6757.88	99.53	6757.87
100	6757.85	100.53	6757.84	100.96	6757.84	101.1	6757.85	101.92	6757.85
102.14	6757.86	102.88	6757.85	103.53	6757.85	104.53	6757.83	105.28	6757.83
106.53	6757.78	106.72	6757.78	107.37	6757.75	108.42	6757.72	108.64	6757.72
109.46	6757.7	109.6	6757.69	110.55	6757.67	111.51	6757.62	111.55	6757.61
112.47	6757.56	112.6	6757.56	113.43	6757.5	113.64	6757.49	114.39	6757.43
115.35	6757.37	116.31	6757.29	116.54	6757.28	117.27	6757.22	118.23	6757.15
118.87	6757.11	119.19	6757.08	119.92	6757.04	120.54	6757	121.11	6757.14
121.54	6757.26	122.07	6757.39	123.03	6757.66	123.05	6757.65	124.1	6757.95
125.14	6758.26	125.9	6758.47	126.19	6758.54	126.54	6758.64	127.82	6758.97
128.28	6759.1	128.78	6759.21	129.54	6759.39	129.74	6759.43	130.37	6759.58
130.7	6759.62	131.42	6759.64	132.46	6759.68	132.62	6759.68	133.51	6759.71
133.58	6759.72	134.39	6759.74	134.55	6759.75	135.5	6759.78	135.6	6759.79
136.46	6759.83	137.42	6759.89	137.69	6759.9	138.73	6759.96	139.34	6760.02
139.55	6760.03	140.55	6760.11	140.82	6760.1	141.55	6760.1	141.87	6760.09
142.92	6760.09	143.17	6760.08	143.96	6760.08	144.13	6760.07	145.01	6760.06
145.55	6760.06	147.01	6760	147.55	6759.97	147.97	6759.96	148.55	6759.93
149.19	6759.91	150.23	6759.86	150.85	6759.85	151.28	6759.86	152.55	6759.86
152.77	6759.87	153.73	6759.87	154.41	6759.88	155.56	6759.88	155.64	6759.87
156.6	6759.87	157.55	6759.86	158.6	6759.86	159.48	6759.85	160.44	6759.85
161.4	6759.81	162.36	6759.76	162.56	6759.76	163.32	6759.72	164.56	6759.67
165.24	6759.63	166.2	6759.6	166.56	6759.6	167.16	6759.58	168.01	6759.56
169.56	6759.53	170.04	6759.54	170.1	6759.52	171.14	6759.52	171.57	6759.51
172.57	6759.51	172.91	6759.5	173.57	6759.5	173.87	6759.49	174.57	6759.49
174.83	6759.48	175.57	6759.48	175.79	6759.46	176.57	6759.42	177.41	6759.37
177.71	6759.36	178.46	6759.32	178.67	6759.3	179.5	6759.26	180.55	6759.2
181.6	6759.15	182.51	6759.1	182.64	6759.1	183.47	6759.05	184.43	6759
185.38	6758.96	185.57	6758.94	186.82	6758.89	187.3	6758.86	187.87	6758.84
188.57	6758.8	189.57	6758.76	189.96	6758.73	190.18	6758.73	190.58	6758.7
191.14	6758.68	192.05	6758.66	192.1	6758.65	192.58	6758.64	193.06	6758.62
193.58	6758.61	194.58	6758.57	194.98	6758.56	195.19	6758.54	195.58	6758.53
196.58	6758.48	196.9	6758.47	197.58	6758.43	198.82	6758.38	199.78	6758.33

200	6758.33	205.59	6754.36	210	6751.5	570	6751.5	593.85	6756.36
594.02	6756.36	606.59	6756.43	732.89	6753.46	737.63	6754.47	744.84	6755.31
759.69	6753.51	773.27	6752.41	774.08	6752.36	786.67	6751.55	797.57	6752.22
798.51	6752.28	806.25	6756.12	824.93	6755.35	850.47	6758.23	857.31	6760.67
883.7	6760.92	891.88	6763.58	897.95	6764.41	923.07	6764.3	925.78	6763.89
931.05	6762.01	936.44	6762.1	972.18	6771.59	1011.22	6767.87	1013.25	6767.99
1021.22	6767.99								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-142.73	.05	737.63	.04	806.25	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	737.63	806.25		373.7	373.7		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-142.73	600	6758.5	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 2665

INPUT

Description:

Station Elevation Data		num= 381							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-429.47	6760.51	-207.29	6780.22	-205.84	6759.63	-203.12	6759.3	-202.79	6759.25
-200.54	6758.99	-199.35	6758.91	-197.71	6758.78	-196.1	6758.67	-195.67	6758.63
-193.78	6758.61	-193.61	6758.6	-191.94	6758.58	-191.12	6758.6	-190.22	6758.59
-188.63	6758.51	-187.64	6758.49	-185.51	6758.43	-182.42	6758.28	-180.77	6758.18
-179.93	6758.16	-178.19	6758.16	-177.44	6758.15	-175.61	6758.15	-175.34	6758.14
-173.89	6758.14	-173.71	6758.13	-172.17	6758.13	-170.45	6758.12	-169.59	6758.09
-168.73	6758.08	-167.21	6758.03	-165.29	6757.98	-164.16	6757.94	-161.28	6757.88
-160.04	6757.86	-158.42	6757.71	-155.06	6757.42	-151.33	6757.15	-149.93	6757.1
-146.88	6758.58	-145.86	6759.08	-144.85	6759.56	-143.65	6759.68	-141.22	6759.94
-139.76	6760.09	-138.9	6760.05	-136.41	6759.99	-134.68	6759.94	-130.91	6759.77
-129.19	6759.7	-128.33	6759.68	-127.71	6759.65	-126.94	6759.65	-125.75	6759.67
-124.52	6759.68	-123.5	6759.72	-121.37	6759.82	-119.73	6759.88	-119.43	6759.9
-117.15	6759.61	-115.8	6759.43	-114.35	6759.27	-114.03	6759.17	-113.71	6759.16
-113.33	6759.03	-109.27	6758.21	-107.24	6757.94	-106.57	6757.84	-104.19	6757.51
-102.15	6756.71	-101.68	6756.6	-101.59	6756.49	-99.08	6755.84	-96.05	6755.36
-95.66	6755.25	-95.38	6755.25	-94.02	6754.89	-91.65	6754.68	-89.95	6754.54
-88.94	6754.44	-87.93	6754.43	-86.67	6754.4	-86.21	6754.4	-83.63	6754.35
-82.37	6754.35	-81.91	6754.34	-80.19	6754.34	-79.79	6754.33	-78.47	6754.33
-77.97	6754.32	-75.03	6754.31	-74.71	6754.3	-73.31	6754.3	-73	6754.29
-71.59	6754.29	-71.23	6754.28	-69.87	6754.28	-69.62	6754.27	-68.02	6754.27
-64.29	6754.24	-63	6754.24	-62.51	6754.23	-59.32	6754.22	-57.43	6754.2
-56.12	6754.2	-55.59	6754.19	-54.34	6754.19	-51.33	6754.17	-48.13	6754.06
-46.88	6754.05	-45.23	6754.02	-42.18	6753.99	-40.65	6753.97	-39.79	6753.95
-34.45	6753.89	-31.96	6753.85	-30.72	6753.84	-27.95	6753.8	-26.67	6753.79
-25.75	6753.77	-24.31	6753.76	-23.45	6753.74	-22.02	6753.73	-21.1	6753.71
-19.82	6753.7	-15.8	6753.65	-14	6753.62	-12.7	6753.62	-12.28	6753.61
-9.58	6753.61	-8.84	6753.6	-6.26	6753.6	-5.85	6753.59	-2.82	6753.59
-2.53	6753.58	.62	6753.58	1.18	6753.57	4.06	6753.57	4.1	6753.56
6.75	6753.56	7.49	6753.55	14.75	6753.55	15.23	6753.56	20.85	6753.56
21.25	6753.57	23.99	6753.57	24.69	6753.58	26.94	6753.58	27.27	6753.59
29.99	6753.59	30.21	6753.6	32.7	6753.6	33.04	6753.61	35.86	6753.61
36.09	6753.62	40.17	6753.62	41.88	6753.6	43.89	6753.59	45.13	6753.57
46.18	6753.57	48.76	6753.54	50.1	6753.53	50.16	6753.53	51.6	6753.53
51.87	6753.52	53.74	6753.52	53.99	6753.51	56.21	6753.51	56.37	6753.5
58.38	6753.5	58.76	6753.49	60.57	6753.49	61.15	6753.48	62.71	6753.48
63.29	6753.47	65.13	6753.47	65.61	6753.46	67.39	6753.46	67.77	6753.45
69.5	6753.45	69.94	6753.44	72.11	6753.44	72.46	6753.43	74.3	6753.43
75	6753.42	76.65	6753.42	77.17	6753.41	79.04	6753.41	79.34	6753.4
81.43	6753.4	81.51	6753.39	83.68	6753.39	83.81	6753.38	85.84	6753.38
86.2	6753.37	88.01	6753.37	88.58	6753.36	90.18	6753.36	90.8	6753.35
92.63	6753.35	93.07	6753.34	94.7	6753.34	95.24	6753.33	96.93	6753.33
97.41	6753.32	99.58	6753.32	99.97	6753.31	101.8	6753.31	102.47	6753.3
104.09	6753.3	104.64	6753.29	106.48	6753.29	106.8	6753.28	108.35	6753.28

108.86	6753.27	111.25	6753.27	112.44	6753.25	112.81	6753.23	114.03	6753.2
116.2	6753.2	116.48	6753.19	119.09	6753.19	119.6	6753.18	121.26	6753.18
121.98	6753.17	124.37	6753.17	124.87	6753.16	127.04	6753.16	127.48	6753.15
129.21	6753.15	129.31	6753.14	131.53	6753.14	132.1	6753.13	133.92	6753.13
134.27	6753.12	136.65	6753.12	137.16	6753.11	139.33	6753.11	139.88	6753.1
145.85	6753.1	147.65	6753.5	149.31	6753.9	150.62	6754.2	151.81	6754.49
153.15	6755.21	153.79	6755.54	155.23	6756.32	156.14	6756.8	157.78	6757.68
160.29	6757.91	161.01	6757.99	161.35	6758.01	163.74	6758.24	165.99	6758.29
167.83	6758.36	169.66	6758.44	172.58	6758.44	173.2	6758.45	174.48	6758.45
174.75	6758.46	176.62	6758.45	177.64	6758.46	179.25	6758.46	179.81	6758.47
181.97	6758.48	182.83	6758.5	184.87	6758.53	185.59	6758.53	187.6	6758.56
188.79	6758.57	191.37	6758.61	193.5	6758.63	197.88	6758.75	199.53	6758.8
201.49	6758.95	202.67	6759.05	203.66	6759.12	205.49	6759.27	207.88	6759.45
209.07	6759.55	209.44	6759.56	210.75	6759.68	210.89	6759.66	211.84	6759.75
212.65	6759.78	213.84	6759.84	219.18	6760.07	220.99	6760.16	222.84	6760.24
224.4	6760.3	226.51	6760.37	228.35	6760.44	230.4	6760.51	232.01	6760.54
234.74	6760.6	237.51	6760.68	239.35	6760.72	240.52	6760.76	241.97	6760.79
247.03	6760.93	247.25	6760.94	249.19	6760.91	250.35	6760.88	250.83	6760.88
252.19	6760.85	257.98	6760.75	260.04	6760.71	260.37	6760.69	262.2	6760.63
262.76	6760.62	263.83	6760.58	265.24	6760.53	265.83	6760.52	266.94	6760.48
270.18	6760.25	271.03	6760.2	272.36	6759.86	275.74	6759.02	275.98	6758.99
276.92	6758.73	277.43	6758.67	277.86	6758.5	278.25	6758.42	278.89	6758.34
279.28	6758.21	282.82	6757.51	283.91	6757.36	285.18	6757.2	285.79	6757.11
289.77	6756.96	291.08	6756.92	294.85	6756.77	296.3	6756.67	298.48	6756.54
300.52	6756.4	304.06	6756.18	305.73	6756.08	306.52	6756.05	307.6	6755.94
311.14	6755.55	312.99	6755.34	318.21	6754.98	318.85	6755	320.24	6755.02
320.97	6755.06	323.49	6755.23	327.5	6755.34	330.01	6755.27	331.85	6755.43
332.91	6755.51	334.62	6755.66	338.57	6755.98	339.45	6756.06	339.84	6756.07
340.92	6756.18	341.29	6756.17	341.81	6756.23	342.74	6756.23	342.99	6756.17
345.35	6755.96	347.09	6755.79	347.82	6755.73	349.27	6755.59	349.99	6755.53
350.01	6750.6	361.23	6749.18	372.67	6747.74	382.52	6747.3	387.62	6747.51
395.33	6747.83	402.22	6751.5	403.01	6751.53	414.23	6751.94	451.48	6753.29
459.36	6754.98	468.23	6755.63	478.25	6755.95	607.14	6760	607.6	6760.02
695.8	6764								

Manning's n Values	num=	5							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-429.47	.1	-205.84	.016	-119.43	.05	350.01	.04	403.01	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
350.01	403.01	129.59	130.14	129.59		.3	.5
Ineffective Flow	num=	1					
Sta L	Sta R	Elev	Permanent				
-429.47	-120	6758	T				

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 2539

INPUT

Description:

Station Elevation Data	num=	368							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-362.02	6780.22	-162.24	6780.22	-161.13	6760.02	-159.08	6759.87	-158.14	6759.81
-157.16	6759.73	-156.02	6759.65	-154.62	6759.61	-152.79	6759.57	-150.92	6759.52
-148.88	6759.49	-148.7	6759.48	-146.16	6759.45	-145.29	6759.42	-144.01	6759.35
-141.92	6759.26	-140.71	6759.2	-140.23	6759.22	-138.87	6759.25	-136.3	6759.33
-135.6	6759.32	-133.45	6759.32	-130.5	6759.29	-130.07	6759.22	-129.87	6759.22
-128.37	6759.01	-125.39	6758.61	-123.44	6758.55	-122.45	6758.53	-120.87	6758.48
-118.04	6758.43	-117.02	6758.42	-116.52	6758.44	-114.45	6758.44	-111.44	6758.42
-110.59	6758.39	-110.59	6758.41	-109.74	6758.38	-106.73	6758.23	-104.98	6758.13
-103.82	6758.15	-100.43	6758.17	-97.74	6758.15	-95.79	6758.15	-94.77	6758.14
-92.6	6758.07	-91.31	6758.02	-89.66	6757.94	-88.25	6757.82	-87.46	6757.74
-84.56	6757.49	-82.65	6757.14	-79.45	6756.54	-78.46	6756.93	-76.39	6757.72
-75.89	6757.92	-74.35	6758.51	-74.18	6758.54	-72.03	6759.01	-71.64	6759.11
-70.26	6759.42	-69.24	6759.66	-65.61	6759.84	-64.32	6759.89	-63.43	6759.88
-60.47	6759.81	-59.03	6759.77	-58.47	6759.77	-54.7	6759.71	-53.86	6759.68
-52.75	6759.68	-51.32	6759.65	-49.62	6759.63	-48.9	6759.61	-47.8	6759.61
-46.33	6759.59	-44.74	6759.59	-43.57	6759.58	-39.64	6759.5	-37.59	6759.49

-37.33	6759.5	-36.05	6759.5	-33.48	6759.52	-31.84	6759.5	-30.99	6759.48
-29.62	6759.47	-28.68	6759.45	-26.76	6759.43	-25.76	6759.43	-24.48	6759.41
-23.19	6759.4	-21.91	6759.36	-20.62	6759.33	-19.34	6759.26	-18.05	6759.2
-16.15	6759.13	-14.2	6759.05	-13.21	6759.02	-11.52	6758.92	-10.67	6758.86
-9.06	6758.77	-7.99	6758.67	-7.28	6758.46	-6.97	6758.33	-5.59	6757.9
-2.88	6757.04	-1.86	6757.19	-1.36	6757.08	-1.34	6757.26	.34	6757.01
2.22	6756.74	4.57	6757.77	5.28	6758.09	6.37	6758.54	7.33	6758.95
9.37	6759.23	10.39	6759.36	10.5	6759.39	11.51	6759.52	12.19	6759.7
12.43	6759.73	14.47	6759.77	15.49	6759.78	17.27	6759.81	19.58	6759.93
22.64	6760.11	24.89	6760.32	27.75	6760.57	28.77	6760.64	30.89	6760.8
32.85	6760.9	34.21	6760.9	34.64	6760.91	37.95	6760.91	39.29	6760.89
40.14	6760.89	41.83	6760.87	43.06	6760.87	43.52	6760.89	43.64	6760.85
45.22	6760.91	45.78	6760.94	48.16	6761.04	50.21	6761.03	51.35	6761
53.27	6760.97	54.53	6761	55.38	6761.01	56.23	6761.04	57.92	6761.04
59.06	6761.06	60.67	6761.11	61.31	6761.12	62.46	6761.16	63.48	6761.17
66.77	6761.09	68.06	6761.05	68.93	6761.01	70.62	6760.95	73.16	6760.83
74.71	6760.78	74.85	6760.79	75.77	6760.75	76.55	6760.8	77.4	6760.81
78.79	6760.87	81.63	6760.9	82.48	6760.9	84.77	6760.93	85.5	6760.93
86.71	6760.95	88.62	6760.96	89.91	6760.99	91.19	6761.04	95.05	6761.17
95.13	6761.18	99.21	6761.32	101.48	6761.29	101.95	6761.3	104.05	6761.31
106.36	6761.34	107.38	6761.34	108.73	6761.36	109.57	6761.36	110.47	6761.33
112.11	6761.29	112.48	6761.27	114.33	6761.22	118.04	6761.11	119.47	6761.06
122.27	6761.1	123.12	6761.12	125.21	6761.15	127.18	6761.19	127.8	6761.18
129.05	6761.18	129.9	6761.17	131.04	6761.13	135.82	6760.94	138.01	6760.86
140.03	6760.78	140.9	6760.73	141.32	6760.69	142.09	6760.65	145.17	6760.44
146.83	6760.34	149.03	6760.19	151.91	6760.01	153.32	6759.91	153.61	6759.9
154.99	6759.8	156.99	6759.67	158.42	6759.6	160.6	6759.48	162.07	6759.44
163.17	6759.42	164.45	6759.38	165.74	6759.35	166.31	6759.3	166.59	6759.3
169.69	6759.12	170.88	6759.06	173.08	6759.01	173.93	6758.98	176.8	6758.91
177.31	6758.89	178.23	6758.9	184.1	6759.02	187.1	6759.07	187.26	6759.08
189.87	6759.05	192.11	6759.05	192.43	6759.04	195.68	6759.04	196.11	6759.03
198.59	6759.03	198.63	6759.02	200.11	6759.02	202.11	6758.98	205.11	6758.94
206.34	6758.91	207.94	6758.89	212.16	6758.76	213.1	6758.74	215.07	6758.67
218.27	6758.58	218.95	6758.54	220.12	6758.5	220.88	6758.49	222.41	6758.49
222.82	6758.48	224.76	6758.48	225.12	6758.47	227.12	6758.47	227.58	6758.46
229.13	6758.46	230.13	6758.45	232.52	6758.48	235.42	6758.53	237.36	6758.55
238.95	6758.58	240.13	6758.58	249.14	6758.96	250.14	6758.95	255.78	6759
258.14	6759.01	259.62	6759.03	259.66	6759.08	260.14	6759.09	261.69	6759.09
263.54	6759.11	264.79	6759.11	265.14	6759.12	266.44	6759.12	268.15	6759.14
270.32	6759.15	273.23	6759.23	276.16	6759.29	279.05	6759.32	280.15	6759.34
281.33	6758.8	283.89	6757.64	284.86	6757.19	286.16	6756.61	286.8	6756.31
288.16	6755.7	289.16	6755.24	289.6	6755.25	289.71	6754.99	290.68	6754.99
291.65	6754.95	293.59	6754.91	296.16	6754.84	296.49	6754.84	300.37	6754.75
302.31	6754.81	303.28	6754.85	306.19	6754.94	306.83	6754.97	310.28	6755.08
312.35	6755.02	315.45	6754.9	316.48	6754.87	318.79	6754.78	319.05	6755.67
319.06	6755.94	319.06	6755.95	373.05	6749.4	383.05	6747.22	400.05	6747.21
419.05	6747.36	428.83	6750.03	431.05	6750.64	436.55	6751.04	506.05	6756.05
543.05	6754.38	552.56	6761.95	555.55	6761.92	555.65	6761.91	557.38	6761.89
559.55	6761.9	560.86	6761.92	563.55	6761.94	567.56	6761.94	569.2	6761.88
570.24	6761.85	573.37	6761.73	574.41	6761.7	575.67	6761.7	577.59	6761.71
578.58	6761.67	579.62	6761.61	581.44	6761.53	581.7	6761.51	586.57	6761.28
587.22	6761.24	588.57	6761.19	589.57	6761.14	592.12	6761.04	595.25	6760.91
595.88	6760.86	597.58	6760.7	599.73	6760.57	600.7	6760.5	604.55	6760.26
604.63	6760.25	607.75	6760.06	608.8	6760.01	610.59	6759.94	611.59	6759.89
612.25	6759.87	615.05	6759.74	616.09	6759.7	617.6	6759.57	619.22	6759.63
620.91	6759.68	622.34	6759.73	623.8	6759.79	625.47	6759.84	626.51	6759.88
627.55	6759.95	630.54	6759.92	630.61	6759.91	632.16	6759.9	632.16	6755.23
645.98	6755.25	657.27	6755.27	825.44	6758				

Manning's n Values				num= 5					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-362.02	.1	-162.24	.016	-25.76	.05	319.05	.04	506.05	.05
Bank Sta:	Left	Right	Lengths:		Left Channel	Right	Coeff	Contr.	Expan.
	319.05	506.05			21.59 21.03	21.59		.3	.5
Ineffective Flow num= 1									
Sta L	Sta R	Elev	Permanent						
-362.02	-70	6758	T						

BRIDGE

RIVER: Walton Creek
REACH: lower-main split RS: 2528

INPUT

Description:

Distance from Upstream XS = 8

Deck/Roadway Width = 9

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 5

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
277.43	6756.08	6755.08	329.34	6757.36	6756.36	362.34	6757.83	6756.83
419.34	6757.27	6756.27	464.34	6756.04	6755.04			

Upstream Bridge Cross Section Data

Station Elevation Data num= 368

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-362.02	6780.22	-162.24	6780.22	-161.13	6760.02	-159.08	6759.87	-158.14	6759.81
-157.16	6759.73	-156.02	6759.65	-154.62	6759.61	-152.79	6759.57	-150.92	6759.52
-148.88	6759.49	-148.7	6759.48	-146.16	6759.45	-145.29	6759.42	-144.01	6759.35
-141.92	6759.26	-140.71	6759.2	-140.23	6759.22	-138.87	6759.25	-136.3	6759.33
-135.6	6759.32	-133.45	6759.32	-130.5	6759.29	-130.07	6759.22	-129.87	6759.22
-128.37	6759.01	-125.39	6758.61	-123.44	6758.55	-122.45	6758.53	-120.87	6758.48
-118.04	6758.43	-117.02	6758.42	-116.52	6758.44	-114.45	6758.44	-111.44	6758.42
-110.59	6758.39	-110.59	6758.41	-109.74	6758.38	-106.73	6758.23	-104.98	6758.13
-103.82	6758.15	-100.43	6758.17	-97.74	6758.15	-95.79	6758.15	-94.77	6758.14
-92.6	6758.07	-91.31	6758.02	-89.66	6757.94	-88.25	6757.82	-87.46	6757.74
-84.56	6757.49	-82.65	6757.14	-79.45	6756.54	-78.46	6756.93	-76.39	6757.72
-75.89	6757.92	-74.35	6758.51	-74.18	6758.54	-72.03	6759.01	-71.64	6759.11
-70.26	6759.42	-69.24	6759.66	-65.61	6759.84	-64.32	6759.89	-63.43	6759.88
-60.47	6759.81	-59.03	6759.77	-58.47	6759.77	-54.7	6759.71	-53.86	6759.68
-52.75	6759.68	-51.32	6759.65	-49.62	6759.63	-48.9	6759.61	-47.8	6759.61
-46.33	6759.59	-44.74	6759.59	-43.57	6759.58	-39.64	6759.5	-37.59	6759.49
-37.33	6759.5	-36.05	6759.5	-33.48	6759.52	-31.84	6759.5	-30.99	6759.48
-29.62	6759.47	-28.68	6759.45	-26.76	6759.43	-25.76	6759.43	-24.48	6759.41
-23.19	6759.4	-21.91	6759.36	-20.62	6759.33	-19.34	6759.26	-18.05	6759.2
-16.15	6759.13	-14.2	6759.05	-13.21	6759.02	-11.52	6758.92	-10.67	6758.86
-9.06	6758.77	-7.99	6758.67	-7.28	6758.46	-6.97	6758.33	-5.59	6757.9
-2.88	6757.04	-1.86	6757.19	-1.36	6757.08	-1.34	6757.26	.34	6757.01
2.22	6756.74	4.57	6757.77	5.28	6758.09	6.37	6758.54	7.33	6758.95
9.37	6759.23	10.39	6759.36	10.5	6759.39	11.51	6759.52	12.19	6759.7
12.43	6759.73	14.47	6759.77	15.49	6759.78	17.27	6759.81	19.58	6759.93
22.64	6760.11	24.89	6760.32	27.75	6760.57	28.77	6760.64	30.89	6760.8
32.85	6760.9	34.21	6760.9	34.64	6760.91	37.95	6760.91	39.29	6760.89
40.14	6760.89	41.83	6760.87	43.06	6760.87	43.52	6760.89	43.64	6760.85
45.22	6760.91	45.78	6760.94	48.16	6761.04	50.21	6761.03	51.35	6761
53.27	6760.97	54.53	6761	55.38	6761.01	56.23	6761.04	57.92	6761.04
59.06	6761.06	60.67	6761.11	61.31	6761.12	62.46	6761.16	63.48	6761.17
66.77	6761.09	68.06	6761.05	68.93	6761.01	70.62	6760.95	73.16	6760.83
74.71	6760.78	74.85	6760.79	75.77	6760.75	76.55	6760.8	77.4	6760.81
78.79	6760.87	81.63	6760.9	82.48	6760.9	84.77	6760.93	85.5	6760.93
86.71	6760.95	88.62	6760.96	89.91	6760.99	91.19	6761.04	95.05	6761.17
95.13	6761.18	99.21	6761.32	101.48	6761.29	101.95	6761.3	104.05	6761.31
106.36	6761.34	107.38	6761.34	108.73	6761.36	109.57	6761.36	110.47	6761.33
112.11	6761.29	112.48	6761.27	114.33	6761.22	118.04	6761.11	119.47	6761.06
122.27	6761.1	123.12	6761.12	125.21	6761.15	127.18	6761.19	127.8	6761.18
129.05	6761.18	129.9	6761.17	131.04	6761.13	135.82	6760.94	138.01	6760.86
140.03	6760.78	140.9	6760.73	141.32	6760.69	142.09	6760.65	145.17	6760.44
146.83	6760.34	149.03	6760.19	151.91	6760.01	153.32	6759.91	153.61	6759.9
154.99	6759.8	156.99	6759.67	158.42	6759.6	160.6	6759.48	162.07	6759.44
163.17	6759.42	164.45	6759.38	165.74	6759.35	166.31	6759.3	166.59	6759.3
169.69	6759.12	170.88	6759.06	173.08	6759.01	173.93	6758.98	176.8	6758.91
177.31	6758.89	178.23	6758.9	184.1	6759.02	187.1	6759.07	187.26	6759.08
189.87	6759.05	192.11	6759.05	192.43	6759.04	195.68	6759.04	196.11	6759.03
198.59	6759.03	198.63	6759.02	200.11	6759.02	202.11	6758.98	205.11	6758.94
206.34	6758.91	207.94	6758.89	212.16	6758.76	213.1	6758.74	215.07	6758.67
218.27	6758.58	218.95	6758.54	220.12	6758.5	220.88	6758.49	222.41	6758.49
222.82	6758.48	224.76	6758.48	225.12	6758.47	227.12	6758.47	227.58	6758.46
229.13	6758.46	230.13	6758.45	232.52	6758.48	235.42	6758.53	237.36	6758.55
238.95	6758.58	240.13	6758.58	249.14	6758.96	250.14	6758.95	255.78	6759

258.14	6759.01	259.62	6759.03	259.66	6759.08	260.14	6759.09	261.69	6759.09
263.54	6759.11	264.79	6759.11	265.14	6759.12	266.44	6759.12	268.15	6759.14
270.32	6759.15	273.23	6759.23	276.16	6759.29	279.05	6759.32	280.15	6759.34
281.33	6758.8	283.89	6757.64	284.86	6757.19	286.16	6756.61	286.8	6756.31
288.16	6755.7	289.16	6755.24	289.6	6755.25	289.71	6754.99	290.68	6754.99
291.65	6754.95	293.59	6754.91	296.16	6754.84	296.49	6754.84	300.37	6754.75
302.31	6754.81	303.28	6754.85	306.19	6754.94	306.83	6754.97	310.28	6755.08
312.35	6755.02	315.45	6754.9	316.48	6754.87	318.79	6754.78	319.05	6755.67
319.06	6755.94	319.06	6755.95	373.05	6749.4	383.05	6747.22	400.05	6747.21
419.05	6747.36	428.83	6750.03	431.05	6750.64	436.55	6751.04	506.05	6756.05
543.05	6754.38	552.56	6761.95	555.55	6761.92	555.65	6761.91	557.38	6761.89
559.55	6761.9	560.86	6761.92	563.55	6761.94	567.56	6761.94	569.2	6761.88
570.24	6761.85	573.37	6761.73	574.41	6761.7	575.67	6761.7	577.59	6761.71
578.58	6761.67	579.62	6761.61	581.44	6761.53	581.7	6761.51	586.57	6761.28
587.22	6761.24	588.57	6761.19	589.57	6761.14	592.12	6761.04	595.25	6760.91
595.88	6760.86	597.58	6760.7	599.73	6760.57	600.7	6760.5	604.55	6760.26
604.63	6760.25	607.75	6760.06	608.8	6760.01	610.59	6759.94	611.59	6759.89
612.25	6759.87	615.05	6759.74	616.09	6759.7	617.6	6759.57	619.22	6759.63
620.91	6759.68	622.34	6759.73	623.8	6759.79	625.47	6759.84	626.51	6759.88
627.55	6759.95	630.54	6759.92	630.61	6759.91	632.16	6759.9	632.16	6755.23
645.98	6755.25	657.27	6755.27	825.44	6758				

Manning's n Values num= 5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-362.02	.1	-162.24	.016	-25.76	.05	319.05	.04	506.05	.05

Bank Sta: Left Right Coeff Contr. Expan.
319.05 506.05 .3 .5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-362.02	-70	6758	T

Downstream Deck/Roadway Coordinates num= 5

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
232.09	6756.08	6755.08	284	6757.36	6756.36	317	6757.83	6756.83
374	6757.27	6756.27	419	6756.04	6755.04			

Downstream Bridge Cross Section Data Station Elevation Data num= 496

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-344	6780.26	-339.96	6760.38	-338.72	6760.49	-337.95	6760.54	-336.53	6760.65
-336.38	6760.67	-334.94	6760.78	-333.94	6760.82	-331.93	6760.93	-329.98	6761.05
-326.17	6761.01	-321.9	6760.97	-320.9	6760.97	-319.67	6760.95	-318.75	6760.95
-312.25	6760.88	-311.32	6760.88	-308.86	6760.85	-308.14	6760.85	-307.05	6760.83
-303.84	6760.8	-302.84	6760.8	-297.4	6760.74	-296.48	6760.74	-293.95	6760.71
-292.26	6760.7	-290.67	6760.68	-289.58	6760.68	-288.12	6760.69	-287.79	6760.7
-286.27	6760.71	-285.21	6760.73	-284.41	6760.73	-283.03	6760.71	-277.57	6760.66
-276.06	6760.64	-275.13	6760.64	-269.73	6760.58	-255.65	6760.58	-252.45	6760.55
-251.01	6760.54	-248.66	6760.51	-247.66	6760.51	-245.65	6760.49	-244.65	6760.51
-242.62	6760.58	-241.53	6760.63	-240.8	6760.65	-239.63	6760.7	-238.94	6760.7
-236.07	6760.65	-234.98	6760.64	-231.7	6760.55	-230.61	6760.51	-229.66	6760.49
-227.34	6760.34	-226.88	6760.3	-225.58	6760.22	-224.58	6760.15	-222.97	6760.08
-219.56	6759.95	-218.6	6759.94	-217.51	6759.94	-215.74	6759.92	-214.82	6759.92
-213.14	6759.9	-209.53	6759.9	-206.59	6759.8	-204.41	6759.72	-203.68	6759.7
-202.22	6759.64	-200.5	6759.59	-199.5	6759.55	-196.26	6759.55	-195.67	6759.56
-191.3	6759.56	-190.69	6759.55	-189.47	6759.55	-188.46	6759.51	-187.91	6759.5
-186.98	6759.46	-185.84	6759.43	-184.45	6759.35	-182.34	6759.28	-181.47	6759.26
-180.48	6759.22	-178.63	6759.18	-178.2	6759.16	-177.43	6759.15	-175.42	6759.1
-174.92	6759.08	-174.42	6759.09	-173.06	6759.04	-172.74	6759.04	-171.2	6758.99
-169.46	6758.95	-165.63	6758.99	-164	6759.01	-163.38	6759.01	-161.92	6759.03
-161.37	6759.03	-159.37	6759.06	-156.36	6758.98	-155.43	6758.96	-153.57	6758.9
-153.35	6758.9	-151.72	6758.85	-149.81	6758.8	-149.33	6758.78	-146.53	6758.83
-145.44	6758.84	-141.07	6758.92	-139.3	6758.96	-138.89	6758.94	-137.29	6758.9
-136.29	6758.86	-135.01	6758.83	-134.28	6758.8	-133.43	6758.78	-132.34	6758.74
-130.15	6758.68	-129.27	6758.65	-126.88	6758.72	-126.26	6758.73	-123.88	6758.8
-122.02	6758.86	-121.42	6758.87	-119.26	6758.94	-117.38	6758.89	-115.96	6758.84
-111.21	6758.71	-110.89	6758.71	-109.41	6758.66	-108.1	6758.63	-106.9	6758.59
-104.19	6758.52	-103.18	6758.48	-101.76	6758.44	-100.17	6758.38	-99.17	6758.35
-93.03	6758.35	-92.33	6758.34	-90.84	6758.34	-89.54	6758.33	-88.13	6758.3
-85.12	6758.21	-84.9	6758.21	-83.05	6758.15	-80.11	6758.09	-78.83	6758.06

-76.09	6757.96	-75.56	6757.95	-74.09	6757.9	-72.28	6757.83	-71.19	6757.8
-70.1	6757.75	-66.06	6757.58	-64.64	6757.51	-63.05	6757.45	-62.05	6757.4
-60.78	6757.36	-60.27	6757.33	-59.04	6757.32	-58.08	6757.53	-53.35	6758.75
-52.42	6758.98	-50.01	6759.61	-49	6759.86	-42.99	6759.86	-42.8	6759.85
-38.97	6759.85	-37.58	6759.82	-34.79	6759.73	-33.87	6759.71	-32.76	6759.67
-31.88	6759.65	-30.15	6759.59	-28.94	6759.56	-26.93	6759.57	-25.51	6759.59
-24.23	6759.6	-23.14	6759.6	-22.92	6759.61	-21.8	6759.61	-20.4	6759.63
-19.02	6759.64	-16.9	6759.56	-15.5	6759.52	-14.41	6759.48	-11.13	6759.39
-9.74	6759.34	-8.95	6759.32	-8.81	6759.3	-5.86	6758.6	1.16	6756.78
5.11	6757.52	5.25	6757.54	6.04	6757.77	6.34	6757.84	8.18	6758.35
10.71	6759.03	11.19	6759.17	11.6	6759.21	15.08	6759.62	15.32	6759.63
16.24	6759.75	17.17	6759.77	18.35	6759.82	19.44	6759.85	20.88	6759.9
21.23	6759.92	22.23	6759.93	24.6	6759.98	26.24	6760	26.45	6760.02
27.09	6760.02	29.27	6760.12	31.26	6760.22	32.55	6760.22	32.95	6760.21
35.82	6760.21	36.27	6760.2	38.28	6760.2	41.39	6760.17	43.3	6760.27
45.94	6760.39	46.87	6760.42	49.32	6760.52	50.58	6760.56	51.11	6760.59
52.2	6760.6	57.66	6760.6	58	6760.61	61.71	6760.61	62.36	6760.59
63.36	6760.58	64.5	6760.55	65.43	6760.54	67.28	6760.5	69.67	6760.46
70.39	6760.44	71.39	6760.43	72.95	6760.49	73.78	6760.51	74.4	6760.54
80.27	6760.75	80.59	6760.75	83.43	6760.83	83.87	6760.85	85.84	6760.9
87.7	6760.96	88.62	6760.98	91.41	6761.07	92.6	6761.07	94.19	6761.03
96.97	6760.95	98.06	6760.93	99.76	6760.88	101.34	6760.84	103.17	6760.77
103.47	6760.75	104.4	6760.76	105.71	6760.76	106.26	6760.77	107.89	6760.77
108.11	6760.78	109.97	6760.78	110.08	6760.79	113.53	6760.79	117.39	6760.75
118.32	6760.75	119.55	6760.73	121.1	6760.72	122.96	6760.68	124.81	6760.62
125.74	6760.6	126.46	6760.57	127.55	6760.54	131.59	6760.4	133.59	6760.53
134.6	6760.59	136.28	6760.71	140.65	6760.94	141.62	6761	143.63	6761
143.93	6761.01	148.64	6761.01	149.87	6760.99	151.57	6760.98	154.51	6760.76
155.44	6760.68	155.94	6760.65	157.67	6760.51	158.22	6760.45	158.68	6760.42
161.69	6760.11	164.67	6759.97	166.7	6759.81	167.51	6759.76	170.15	6759.76
174.36	6759.46	174.96	6759.47	175.15	6759.45	178.16	6759.42	178.28	6759.41
180.16	6759.39	184.16	6759.04	187.23	6758.83	189.05	6758.72	190.16	6758.64
191.32	6758.6	192.34	6758.55	194.39	6758.47	194.92	6758.46	196.43	6758.4
198.16	6758.35	198.48	6758.33	200.16	6758.28	201.54	6758.29	202.75	6758.29
203.73	6758.3	205.69	6758.29	209.16	6758.26	210.75	6758.26	212.16	6758.27
214.5	6758.3	216.88	6758.31	218.16	6758.33	219.4	6758.33	223.31	6758.37
224.04	6758.34	226.25	6758.29	228.13	6758.23	229.19	6758.21	230	6758.18
232.23	6758.15	233.08	6758.13	235.02	6758.15	236.37	6758.15	237.92	6758.17
239.17	6758.17	240.17	6758.18	242.75	6758.1	244.18	6758.1	245.7	6758.09
247.59	6758.07	248.81	6758.07	250.18	6758.06	250.88	6758.02	252.18	6757.97
252.42	6757.95	252.96	6757.98	253.18	6757.97	254.36	6757.98	255.32	6758
257.26	6758.02	258.14	6758.04	259.19	6758.05	260.19	6758.07	261.13	6757.91
266.43	6757.03	266.92	6755.75	267.58	6755.87	312.69	6750.93	313.92	6750.8
314.55	6750.71	334.87	6747.75	335.92	6747.6	336.79	6747.59	348.92	6747.41
368.59	6747.67	369.92	6747.69	370.62	6747.93	379.27	6750.88	380.92	6751.44
381.33	6751.51	407.92	6756.2	452.97	6758.16	453.92	6758.2	454.65	6758.39
457.63	6759.14	459.45	6759.01	460.87	6758.92	461.37	6758.92	462.33	6758.89
462.96	6758.89	465.21	6758.85	465.63	6758.85	467.13	6758.82	467.64	6758.82
470.64	6758.61	470.98	6758.62	471.32	6758.56	472.64	6758.59	475.78	6758.64
477.7	6758.68	478.64	6758.64	480.73	6758.58	482.82	6758.5	483.86	6758.47
485.95	6758.39	487	6758.36	487.65	6758.33	488.26	6758.49	491.66	6759.41
492.1	6759.44	492.23	6759.56	493.66	6759.67	497.66	6759.95	498.82	6760.08
499.54	6760.15	500.59	6760.27	502.68	6760.49	505.54	6761.23	507.67	6761.77
508.67	6761.81	512.09	6761.91	513.13	6761.95	517.06	6762.03	517.68	6762.05
518.68	6762.03	520.45	6762.02	521.5	6762	522.69	6761.99	522.82	6762
523.59	6761.98	524.74	6762.01	527.62	6762.1	529.54	6762.08	529.69	6762.07
530.9	6762.06	531.95	6762.04	533.7	6762.02	535.3	6761.99	537.7	6761.96
539.14	6761.95	541.7	6761.95	542.02	6761.94	544.9	6761.94	546.71	6761.96
546.82	6761.97	554.5	6762.05	557.72	6762.05	559.72	6761.93	560.72	6761.88
563.14	6761.74	565.4	6761.62	566.73	6761.58	566.93	6761.58	567.73	6761.56
568.53	6761.5	570.83	6761.36	573.37	6761.2	574.79	6761.1	575.83	6761.04
576.6	6761.12	576.88	6761.13	577.92	6761.21	578.74	6761.23	579.74	6761.27
583.34	6761.38	584.18	6761.4	585.22	6761.44	585.74	6761.45	586.22	6761.33
586.26	6761.47	587.74	6761.11	588.35	6760.93	591.03	6760.16	592.75	6759.66
593.75	6759.38	594.88	6759.05	596.8	6758.5	597.74	6758.31	599.69	6758.57
599.82	6758.58	603.99	6759.14	604.5	6759.2	606.42	6759.46	607.76	6759.63
609.21	6759.64	610.25	6759.66	610.76	6759.66	611.76	6759.68	613.16	6759.69
614.12	6759.71	614.77	6759.71	616.51	6759.74	617.55	6759.75	618.93	6759.71
620.68	6759.64	622.88	6759.57	623.74	6759.53	625.66	6759.46	626.83	6759.46
805.6	6758								

Manning's n Values num= 6

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-344	.1	-229.66	.05	-119.26	.016	-8.95	.05	266.92	.04
453.92	.05								

Bank Sta: Left Right Coeff Contr. Expan.
266.92 453.92 .3 .5

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 3

Pier Data
Pier Station Upstream= 326.43 Downstream= 281.09
Upstream num= 2
Width Elev Width Elev
1.8 6700 1.8 6800
Downstream num= 2
Width Elev Width Elev
1.8 6700 1.8 6800

Pier Data
Pier Station Upstream= 326.43 Downstream= 368.09
Upstream num= 2
Width Elev Width Elev
1.8 6700 1.8 6800
Downstream num= 2
Width Elev Width Elev
1.8 6700 1.8 6800

Pier Data
Pier Station Upstream= 413.43 Downstream=
Upstream num= 2
Width Elev Width Elev
1.8 6700 1.8 6800
Downstream num= 0

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 2517

INPUT

Description:
Station Elevation Data num= 496

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-344	6780.26	-339.96	6760.38	-338.72	6760.49	-337.95	6760.54	-336.53	6760.65

-336.38	6760.67	-334.94	6760.78	-333.94	6760.82	-331.93	6760.93	-329.98	6761.05
-326.17	6761.01	-321.9	6760.97	-320.9	6760.97	-319.67	6760.95	-318.75	6760.95
-312.25	6760.88	-311.32	6760.88	-308.86	6760.85	-308.14	6760.85	-307.05	6760.83
-303.84	6760.8	-302.84	6760.8	-297.4	6760.74	-296.48	6760.74	-293.95	6760.71
-292.26	6760.7	-290.67	6760.68	-289.58	6760.68	-288.12	6760.69	-287.79	6760.7
-286.27	6760.71	-285.21	6760.73	-284.41	6760.73	-283.03	6760.71	-277.57	6760.66
-276.06	6760.64	-275.13	6760.64	-269.73	6760.58	-255.65	6760.58	-252.45	6760.55
-251.01	6760.54	-248.66	6760.51	-247.66	6760.51	-245.65	6760.49	-244.65	6760.51
-242.62	6760.58	-241.53	6760.63	-240.8	6760.65	-239.63	6760.7	-238.94	6760.7
-236.07	6760.65	-234.98	6760.64	-231.7	6760.55	-230.61	6760.51	-229.66	6760.49
-227.34	6760.34	-226.88	6760.3	-225.58	6760.22	-224.58	6760.15	-222.97	6760.08
-219.56	6759.95	-218.6	6759.94	-217.51	6759.94	-215.74	6759.92	-214.82	6759.92
-213.14	6759.9	-209.53	6759.9	-206.59	6759.8	-204.41	6759.72	-203.68	6759.7
-202.22	6759.64	-200.5	6759.59	-199.5	6759.55	-196.26	6759.55	-195.67	6759.56
-191.3	6759.56	-190.69	6759.55	-189.47	6759.55	-188.46	6759.51	-187.91	6759.5
-186.98	6759.46	-185.84	6759.43	-184.45	6759.35	-182.34	6759.28	-181.47	6759.26
-180.48	6759.22	-178.63	6759.18	-178.2	6759.16	-177.43	6759.15	-175.42	6759.1
-174.92	6759.08	-174.42	6759.09	-173.06	6759.04	-172.74	6759.04	-171.2	6758.99
-169.46	6758.95	-165.63	6758.99	-164	6759.01	-163.38	6759.01	-161.92	6759.03
-161.37	6759.03	-159.37	6759.06	-156.36	6758.98	-155.43	6758.96	-153.57	6758.9
-153.35	6758.9	-151.72	6758.85	-149.81	6758.8	-149.33	6758.78	-146.53	6758.83
-145.44	6758.84	-141.07	6758.92	-139.3	6758.96	-138.89	6758.94	-137.29	6758.9
-136.29	6758.86	-135.01	6758.83	-134.28	6758.8	-133.43	6758.78	-132.34	6758.74
-130.15	6758.68	-129.27	6758.65	-126.88	6758.72	-126.26	6758.73	-123.88	6758.8
-122.02	6758.86	-121.42	6758.87	-119.26	6758.94	-117.38	6758.89	-115.96	6758.84
-111.21	6758.71	-110.89	6758.71	-109.41	6758.66	-108.1	6758.63	-106.9	6758.59
-104.19	6758.52	-103.18	6758.48	-101.76	6758.44	-100.17	6758.38	-99.17	6758.35
-93.03	6758.35	-92.33	6758.34	-90.84	6758.34	-89.54	6758.33	-88.13	6758.3
-85.12	6758.21	-84.9	6758.21	-83.05	6758.15	-80.11	6758.09	-78.83	6758.06
-76.09	6757.96	-75.56	6757.95	-74.09	6757.9	-72.28	6757.83	-71.19	6757.8
-70.1	6757.75	-66.06	6757.58	-64.64	6757.51	-63.05	6757.45	-62.05	6757.4
-60.78	6757.36	-60.27	6757.33	-59.04	6757.32	-58.08	6757.53	-53.35	6758.75
-52.42	6758.98	-50.01	6759.61	-49	6759.86	-42.99	6759.86	-42.8	6759.85
-38.97	6759.85	-37.58	6759.82	-34.79	6759.73	-33.87	6759.71	-32.76	6759.67
-31.88	6759.65	-30.15	6759.59	-28.94	6759.56	-26.93	6759.57	-25.51	6759.59
-24.23	6759.6	-23.14	6759.6	-22.92	6759.61	-21.8	6759.61	-20.4	6759.63
-19.02	6759.64	-16.9	6759.56	-15.5	6759.52	-14.41	6759.48	-11.13	6759.39
-9.74	6759.34	-8.95	6759.32	-8.81	6759.3	-5.86	6758.6	1.16	6756.78
5.11	6757.52	5.25	6757.54	6.04	6757.77	6.34	6757.84	8.18	6758.35
10.71	6759.03	11.19	6759.17	11.6	6759.21	15.08	6759.62	15.32	6759.63
16.24	6759.75	17.17	6759.77	18.35	6759.82	19.44	6759.85	20.88	6759.9
21.23	6759.92	22.23	6759.93	24.6	6759.98	26.24	6760	26.45	6760.02
27.09	6760.02	29.27	6760.12	31.26	6760.22	32.55	6760.22	32.95	6760.21
35.82	6760.21	36.27	6760.2	38.28	6760.2	41.39	6760.17	43.3	6760.27
45.94	6760.39	46.87	6760.42	49.32	6760.52	50.58	6760.56	51.11	6760.59
52.2	6760.6	57.66	6760.6	58	6760.61	61.71	6760.61	62.36	6760.59
63.36	6760.58	64.5	6760.55	65.43	6760.54	67.28	6760.5	69.67	6760.46
70.39	6760.44	71.39	6760.43	72.95	6760.49	73.78	6760.51	74.4	6760.54
80.27	6760.73	80.59	6760.75	83.43	6760.83	83.87	6760.85	85.84	6760.9
87.7	6760.96	88.62	6760.98	91.41	6761.07	92.6	6761.07	94.19	6761.03
96.97	6760.95	98.06	6760.93	99.76	6760.88	101.34	6760.84	103.17	6760.77
103.47	6760.75	104.4	6760.76	105.71	6760.76	106.26	6760.77	107.89	6760.77
108.11	6760.78	109.97	6760.78	110.08	6760.79	113.53	6760.79	117.39	6760.75
118.32	6760.75	119.55	6760.73	121.1	6760.72	122.96	6760.68	124.81	6760.62
125.74	6760.6	126.46	6760.57	127.55	6760.54	131.59	6760.4	133.59	6760.53
134.6	6760.59	136.28	6760.71	140.65	6760.94	141.62	6761	143.63	6761
143.93	6761.01	148.64	6761.01	149.87	6760.99	151.57	6760.98	154.51	6760.76
155.44	6760.68	155.94	6760.65	157.67	6760.51	158.22	6760.45	158.68	6760.42
161.69	6760.11	164.67	6759.97	166.7	6759.81	167.51	6759.76	170.15	6759.76
174.36	6759.46	174.96	6759.47	175.15	6759.45	178.16	6759.42	178.28	6759.41
180.16	6759.39	184.16	6759.04	187.23	6758.83	189.05	6758.72	190.16	6758.64
191.32	6758.6	192.34	6758.55	194.39	6758.47	194.92	6758.46	196.43	6758.4
198.16	6758.35	198.48	6758.33	200.16	6758.28	201.54	6758.29	202.75	6758.29
203.73	6758.3	205.69	6758.29	209.16	6758.26	210.75	6758.26	212.16	6758.27
214.5	6758.3	216.88	6758.31	218.16	6758.33	219.4	6758.33	223.31	6758.37
224.04	6758.34	226.25	6758.29	228.13	6758.23	229.19	6758.21	230	6758.18
232.23	6758.15	233.08	6758.13	235.02	6758.15	236.37	6758.15	237.92	6758.17
239.17	6758.17	240.17	6758.18	242.75	6758.1	244.18	6758.1	245.7	6758.09
247.59	6758.07	248.81	6758.07	250.18	6758.06	250.88	6758.02	252.18	6757.97
252.42	6757.95	252.96	6757.98	253.18	6757.97	254.36	6757.98	255.32	6758
257.26	6758.02	258.14	6758.04	259.19	6758.05	260.19	6758.07	261.13	6757.91

266.43	6757.03	266.92	6755.75	267.58	6755.87	312.69	6750.93	313.92	6750.8
314.55	6750.71	334.87	6747.75	335.92	6747.6	336.79	6747.59	348.92	6747.41
368.59	6747.67	369.92	6747.69	370.62	6747.93	379.27	6750.88	380.92	6751.44
381.33	6751.51	407.92	6756.2	452.97	6758.16	453.92	6758.2	454.65	6758.39
457.63	6759.14	459.45	6759.01	460.87	6758.92	461.37	6758.92	462.33	6758.89
462.96	6758.89	465.21	6758.85	465.63	6758.85	467.13	6758.82	467.64	6758.82
470.64	6758.61	470.98	6758.62	471.32	6758.56	472.64	6758.59	475.78	6758.64
477.7	6758.68	478.64	6758.64	480.73	6758.58	482.82	6758.5	483.86	6758.47
485.95	6758.39	487	6758.36	487.65	6758.33	488.26	6758.49	491.66	6759.41
492.1	6759.44	492.23	6759.56	493.66	6759.67	497.66	6759.95	498.82	6760.08
499.54	6760.15	500.59	6760.27	502.68	6760.49	505.54	6761.23	507.67	6761.77
508.67	6761.81	512.09	6761.91	513.13	6761.95	517.06	6762.03	517.68	6762.05
518.68	6762.03	520.45	6762.02	521.5	6762	522.69	6761.99	522.82	6762
523.59	6761.98	524.74	6762.01	527.62	6762.1	529.54	6762.08	529.69	6762.07
530.9	6762.06	531.95	6762.04	533.7	6762.02	535.3	6761.99	537.7	6761.96
539.14	6761.95	541.7	6761.95	542.02	6761.94	544.9	6761.94	546.71	6761.96
546.82	6761.97	554.5	6762.05	557.72	6762.05	559.72	6761.93	560.72	6761.88
563.14	6761.74	565.4	6761.62	566.73	6761.58	566.93	6761.58	567.73	6761.56
568.53	6761.5	570.83	6761.36	573.37	6761.2	574.79	6761.1	575.83	6761.04
576.6	6761.12	576.88	6761.13	577.92	6761.21	578.74	6761.23	579.74	6761.27
583.34	6761.38	584.18	6761.4	585.22	6761.44	585.74	6761.45	586.22	6761.33
586.26	6761.47	587.74	6761.11	588.35	6760.93	591.03	6760.16	592.75	6759.66
593.75	6759.38	594.88	6759.05	596.8	6758.5	597.74	6758.31	599.69	6758.57
599.82	6758.58	603.99	6759.14	604.5	6759.2	606.42	6759.46	607.76	6759.63
609.21	6759.64	610.25	6759.66	610.76	6759.66	611.76	6759.68	613.16	6759.69
614.12	6759.71	614.77	6759.71	616.51	6759.74	617.55	6759.75	618.93	6759.71
620.68	6759.64	622.88	6759.57	623.74	6759.53	625.66	6759.46	626.83	6759.46
805.6	6758								

Manning's n Values		num=		6							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-344	.1	-229.66	.05	-119.26	.016	-8.95	.05	266.92	.04		
453.92	.05										

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	266.92	453.92		219.85	219.86	219.85		.3	.5

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 2294

INPUT

Description:

Station Elevation Data		num=		490							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-209.02	6780.38	-208.09	6760.53	-206.25	6760.49	-205.09	6760.47	-204.09	6760.44		
-201.26	6760.38	-200.26	6760.37	-199.08	6760.37	-198.26	6760.36	-195.26	6760.39		
-195.08	6760.4	-190.27	6760.45	-189.07	6760.45	-188.27	6760.46	-187.27	6760.45		
-186.07	6760.45	-185.27	6760.44	-184.07	6760.44	-183.28	6760.43	-182.06	6760.43		
-181.28	6760.42	-179.28	6760.44	-178.06	6760.44	-177.28	6760.46	-176.06	6760.47		
-175.28	6760.49	-173.28	6760.51	-173.17	6760.52	-171.29	6760.54	-171.17	6760.55		
-170.29	6760.54	-168.17	6760.54	-168.05	6760.53	-164.29	6760.46	-163.05	6760.43		
-162.17	6760.42	-160.3	6760.37	-160.04	6760.37	-158.3	6760.32	-157.04	6760.31		
-155.3	6760.28	-153.3	6760.26	-153.17	6760.25	-151.17	6760.23	-149.17	6760.09		
-149.03	6760.09	-148.03	6760.02	-142.31	6759.68	-141.17	6759.62	-140.17	6759.62		
-140.02	6759.63	-139.02	6759.63	-138.32	6759.64	-135.32	6759.61	-134.32	6759.61		
-134.17	6759.6	-133.17	6759.6	-133.02	6759.59	-132.02	6759.59	-128.33	6759.55		
-126.17	6759.55	-126.01	6759.56	-123.01	6759.56	-122.33	6759.57	-121.01	6759.57		
-120.34	6759.55	-119.17	6759.53	-118	6759.52	-117.17	6759.5	-116	6759.49		
-113.17	6759.44	-111	6759.42	-109	6759.44	-108.35	6759.46	-105.99	6759.48		
-102.99	6759.51	-101.99	6759.53	-100.99	6759.53	-100.35	6759.52	-98.99	6759.48		
-98.17	6759.47	-97.17	6759.44	-95.36	6759.41	-94.36	6759.38	-93.98	6759.38		
-92.98	6759.35	-91.98	6759.33	-90.98	6759.32	-88.98	6759.34	-86.17	6759.39		
-85.17	6759.4	-81.17	6759.47	-80.97	6759.45	-79.97	6759.4	-78.97	6759.33		
-78.37	6759.3	-77.17	6759.17	-75.38	6758.99	-75.17	6758.96	-73.38	6758.78		
-73.17	6758.75	-71.38	6758.57	-71.17	6758.54	-69.96	6758.58	-66.39	6758.72		
-65.39	6758.77	-65.17	6758.77	-63.95	6758.83	-62.39	6758.89	-61.17	6758.95		
-58.39	6758.84	-50.94	6758.84	-48.4	6758.87	-47.4	6758.87	-47.17	6758.88		
-44.93	6758.88	-44.41	6758.89	-41.93	6758.89	-41.17	6758.9	-38.93	6758.86		

-38.41	6758.86	-36.93	6758.83	-34.42	6758.8	-34.17	6758.79	-31.17	6758.79
-29.17	6758.85	-27.92	6758.88	-25.42	6758.91	-23.91	6758.94	-22.17	6758.96
-21.17	6758.98	-20.17	6758.96	-18.43	6758.94	-17.17	6758.91	-15.91	6758.87
-15.17	6758.86	-13.44	6758.81	-13.17	6758.81	-11.44	6758.76	-10.9	6758.76
-8.44	6758.8	-7.44	6758.83	-6.44	6758.87	-6.17	6758.87	-4.9	6758.92
-4.44	6758.93	-1.45	6759.04	-.89	6759.05	1.55	6759.05	4.83	6759.15
5.11	6759.15	7.83	6759.24	9.12	6759.27	16.6	6759.27	17.23	6759.26
20.78	6759.26	22.22	6759.32	23.67	6759.37	24.3	6759.4	25.72	6759.45
26.3	6759.48	29.07	6759.58	30.89	6759.66	31.37	6759.67	33.23	6759.75
34.2	6759.78	35.62	6759.84	36.32	6759.85	37.03	6759.82	37.74	6759.82
38.11	6759.8	39.15	6759.79	39.56	6759.77	40.57	6759.76	41	6759.74
41.98	6759.73	42.93	6759.7	43.4	6759.71	44.1	6759.68	44.81	6759.68
45.52	6759.65	46.23	6759.65	46.93	6759.62	47.64	6759.62	48.35	6759.59
49.06	6759.59	49.85	6759.56	51.88	6759.5	52.56	6759.47	53.3	6759.46
54.26	6759.42	56.13	6759.37	56.78	6759.34	57.54	6759.33	59.78	6759.25
60.37	6759.24	61.08	6759.21	61.79	6759.2	63.71	6759.13	64.62	6759.12
65.32	6759.08	66.03	6759.07	68.45	6758.98	70.27	6758.93	70.64	6758.91
73.1	6758.84	73.41	6758.82	74.22	6758.8	75.22	6758.76	77.57	6758.69
78.56	6758.51	78.96	6758.42	81.73	6757.76	82.89	6757.49	83.11	6757.43
84.34	6757.15	85.78	6756.8	86.54	6756.63	87.27	6756.45	88.66	6756.13
90.78	6755.62	91.43	6755.47	93	6755.24	95.03	6755	95.73	6754.91
97.15	6754.75	97.34	6754.72	99.74	6754.44	101.67	6754.2	102.81	6754.07
105.28	6753.77	106.34	6753.77	106.67	6753.76	107.76	6753.76	108.89	6753.78
110.59	6753.79	110.83	6753.8	111.24	6754.01	111.84	6754.01	112.05	6753.98
113.23	6753.76	113.49	6753.72	115.73	6753.31	118.31	6752.86	119.72	6752.59
121.93	6752.19	122.55	6752.07	125.45	6751.54	126.07	6751.42	127.51	6751.39
129.62	6751.33	130.38	6751.32	131.68	6751.28	133.26	6751.28	133.87	6751.27
135.28	6751.27	135.85	6751.26	137.57	6751.26	137.94	6751.25	139.53	6751.25
140.44	6751.24	143.32	6751.12	143.77	6751.11	145.6	6751.03	148.38	6751.31
149.78	6751.44	150.5	6751.52	154.81	6751.94	155.08	6752	157.21	6752.42
157.69	6752.51	159.33	6752.84	160.03	6752.95	161.45	6753.14	163.57	6753.44
164.28	6753.53	167.75	6754.02	167.88	6754.03	169.18	6754.22	169.27	6754.22
173.45	6754.52	177.01	6754.57	177.81	6754.57	180.54	6754.61	181.25	6754.61
183.19	6754.64	187.37	6754.64	189.74	6754.84	190.44	6754.89	191.55	6754.99
192.94	6755.1	193.98	6755.19	194.33	6755.21	195.72	6755.33	197.12	6755.44
197.52	6755.48	199.64	6755.63	200.8	6755.7	201.29	6755.74	204.08	6755.65
206	6755.58	206.55	6755.57	209.42	6755.47	209.65	6755.47	212.3	6755.38
213.74	6755.31	215.17	6755.23	217.32	6755.25	218.73	6755.25	223.57	6755.29
225.1	6755.29	225.23	6755.3	226.67	6755.3	227.22	6755.33	229.14	6755.4
230.75	6755.4	230.98	6755.39	232.87	6755.39	233.32	6755.38	235.29	6755.38
235.7	6755.37	237.49	6755.37	237.83	6755.36	239.95	6755.36	240.28	6755.35
241.67	6755.35	242.48	6755.32	243.06	6755.28	244.46	6755.28	244.9	6755.27
246.31	6755.27	246.79	6755.26	248.63	6755.26	249.14	6755.25	249.85	6755.44
251.42	6755.84	252.81	6756.21	253.38	6756.35	254.2	6756.57	255.41	6756.88
256.21	6757.07	256.85	6757.35	257.63	6757.71	258.29	6758	260.46	6758.98
261.31	6759.37	263.28	6760.26	264.7	6760.28	265.41	6760.28	268.13	6760.32
269.78	6760.33	271.06	6760.39	271.77	6760.39	272.48	6760.41	273.19	6760.41
273.89	6760.43	274.09	6760.42	276.48	6760.45	276.72	6760.47	277.43	6760.46
278.14	6760.49	278.41	6760.47	282.05	6760.52	282.38	6760.54	283.09	6760.53
283.79	6760.56	284.15	6760.54	285.21	6760.54	285.59	6760.53	286.62	6760.53
287.03	6760.52	288.04	6760.52	288.47	6760.51	289.45	6760.51	298.76	6760.44
299.35	6760.47	300.15	6760.49	300.77	6760.52	301.4	6760.53	302.18	6760.57
302.84	6760.58	303.59	6760.62	304.27	6760.63	305.01	6760.67	306.02	6760.69
306.42	6760.72	307.15	6760.73	307.84	6760.77	308.59	6760.78	309.25	6760.82
310.02	6760.83	310.67	6760.87	311.46	6760.88	312.68	6760.93	313.5	6760.89
314.07	6760.9	314.91	6760.87	315.77	6760.87	316.32	6760.84	316.86	6760.85
317.74	6760.82	318.45	6760.82	319.15	6760.79	319.64	6760.8	320.57	6760.77
321.27	6760.77	321.98	6760.74	322.96	6760.74	323.4	6760.72	324.39	6760.71
324.81	6760.69	325.52	6760.69	326.22	6760.66	326.61	6760.67	327.64	6760.67
331.58	6760.56	331.88	6760.56	333.02	6760.52	334.45	6760.49	334.96	6760.47
336.83	6760.43	337.33	6760.41	338.76	6760.38	339.66	6760.35	341.08	6760.32
344.51	6760.2	344.71	6760.2	347.49	6760.1	349.56	6760.04	350.26	6760.01
351.67	6759.97	351.7	6759.96	353.06	6759.92	354.45	6759.87	356.01	6759.76
357.45	6759.69	358.05	6759.67	359.46	6759.6	360.32	6759.57	361.76	6759.5
362.81	6759.46	364.63	6759.38	365.12	6759.35	368.38	6759.21	370.07	6759.17
373.26	6759.13	374.31	6759.11	375.02	6759.11	377.14	6759.08	378.12	6759.06
379.26	6759.05	381.88	6759.01	384.21	6759.01	385.09	6759.02	385.63	6759.01
388.46	6759.01	389.06	6759	391.29	6759	391.94	6758.99	394.12	6758.99
394.81	6758.98	396.25	6758.98	397.62	6759	399.12	6759.01	400.4	6759.05
401.79	6759.08	402.6	6759.11	404.02	6759.14	404.87	6759.17	405.97	6759.19
408.26	6759.26	409.67	6759.29	410.15	6759.31	412.5	6759.32	412.93	6759.33

413.92	6759.33	414.33	6759.32	415.33	6759.32	417.81	6759.29	418.87	6759.29
420.68	6759.25	421.7	6759.24	424.07	6759.19	426.65	6759.01	428.06	6758.93
429.64	6758.91	431.03	6758.88	433.62	6758.84	435.05	6758.81	436.05	6758.81

Manning's n Values			num=			5			
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-209.02	.1	-151.17	.016	77.57	.05	99.74	.04	173.45	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	99.74	173.45		191.29	191.29	191.29		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 2103

INPUT

Description:

Station Elevation Data				num=				490			
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-214.25	6759.39	-213.63	6759.39	-212.41	6759.36	-211.53	6759.49	-211.39	6759.49		
-210.49	6759.45	-210.01	6759.41	-209.86	6759.34	-209.21	6759.27	-208.5	6759.12		
-208.34	6759.1	-207.62	6759.07	-207.34	6759.05	-206.3	6758.99	-206.02	6758.96		
-205.3	6758.92	-203.77	6758.82	-203.63	6758.8	-202.83	6758.75	-201.78	6758.75		
-200.73	6758.79	-199.63	6758.82	-198.43	6758.87	-197.68	6758.89	-196.44	6758.94		
-195.07	6758.99	-193.72	6759.03	-193.11	6759.06	-191.71	6759.1	-191.59	6759.11		
-190.58	6759.15	-190.05	6759.04	-189.53	6758.94	-188.36	6758.77	-187.44	6758.65		
-187.02	6758.63	-186.86	6758.64	-186.39	6758.63	-185.5	6758.63	-185.34	6758.64		
-184.46	6758.64	-184.3	6758.65	-183.67	6758.65	-183.25	6758.66	-182.07	6758.66		
-181.15	6758.68	-180.47	6758.71	-180.11	6758.72	-179.67	6758.67	-179.06	6758.61		
-178.87	6758.62	-178.28	6758.56	-178.08	6758.55	-176.96	6758.61	-176.48	6758.68		
-176.36	6758.68	-175.92	6758.73	-175.68	6758.77	-174.84	6758.88	-174.08	6758.91		
-173.32	6758.96	-173.29	6758.97	-172.77	6759	-171.8	6759.03	-170.89	6759.08		
-170.27	6759.09	-169.63	6759.12	-168.75	6759.1	-168.5	6759.1	-167.7	6759.08		
-166.9	6759.05	-165.3	6759.01	-164.86	6758.99	-164.39	6758.98	-163.7	6758.86		
-163.35	6758.79	-162.3	6758.77	-162.11	6758.8	-161.14	6758.88	-160.2	6759		
-159.71	6759.07	-159.16	6759.14	-158.91	6759.14	-158.14	6759.16	-158.09	6759.17		
-157.32	6759.19	-157.06	6759.19	-156.57	6759.21	-156.52	6759.19	-156.01	6759.21		
-155.05	6759.22	-153.52	6759.22	-153.33	6759.21	-152.87	6759.21	-152	6759.19		
-151.73	6759.19	-150.93	6759.17	-150.48	6759.17	-150.13	6759.16	-149.73	6759.16		
-148.96	6759.14	-147.43	6759.14	-146.94	6759.15	-145.34	6759.15	-144.71	6759.16		
-143.44	6759.16	-142.87	6759.18	-141.36	6759.24	-140.55	6759.26	-139.82	6759.29		
-138	6759.35	-137.36	6759.34	-134.16	6759.34	-133.73	6759.33	-133.36	6759.34		
-132.97	6759.34	-132.57	6759.33	-131.77	6759.33	-131.28	6759.32	-127.64	6759.32		
-126.18	6759.17	-126.12	6759.17	-125.38	6759.09	-124.57	6759.13	-123.54	6759.22		
-123.07	6759.27	-122.99	6759.4	-122.49	6759.42	-121.39	6759.35	-120.85	6759.35		
-120.85	6756.82	-119.85	6756.75	-119.85	6759.09	-119.35	6759.09	-118.5	6759.13		
-118.19	6759.15	-117.86	6759.12	-116.98	6759.07	-116.6	6759.14	-116.21	6759.09		
-115.8	6759.09	-115.46	6759.1	-113.45	6759.1	-113.45	6756.22	-113.09	6756.2		
-112.45	6756.14	-112.45	6759.05	-111.81	6759.05	-111.14	6759.03	-110.89	6759.03		
-109.92	6759	-109.41	6758.99	-109.37	6758.98	-107.02	6758.92	-106.78	6758.91		
-105.73	6758.89	-103.82	6758.83	-101.75	6758.78	-101.07	6758.76	-100.63	6758.74		
-100.23	6758.74	-99.83	6758.73	-99.03	6758.73	-98.4	6758.71	-97.35	6758.69		
-96.64	6758.69	-96.3	6758.68	-95.84	6758.68	-95.66	6758.67	-95.04	6758.67		
-93.44	6758.65	-93.16	6758.64	-92.62	6758.64	-90.25	6758.61	-90.02	6758.61		
-88.97	6758.59	-88.05	6758.58	-87.64	6758.58	-87.06	6758.57	-86.87	6758.59		
-86.53	6758.77	-86.26	6758.72	-85.83	6758.99	-85.46	6759.18	-85	6759.19		
-84.78	6759.29	-83.06	6759.16	-82.68	6759.14	-81.96	6759.09	-80.67	6758.99		
-80.43	6758.96	-79.07	6758.81	-78.91	6758.8	-77.39	6758.63	-76.4	6758.53		
-75.35	6758.41	-75.08	6758.37	-73.48	6758.11	-72.82	6758	-72.69	6758		
-72.21	6757.92	-70.86	6757.74	-69.07	6757.49	-67.1	6757.23	-65.92	6757.07		
-64.88	6756.92	-64.14	6756.75	-63.69	6756.63	-61.73	6756.16	-61.51	6756.1		
-60.79	6755.93	-59.91	6755.71	-59.64	6755.65	-58.31	6755.32	-57.43	6755.11		
-56.72	6754.91	-56.49	6754.86	-55.45	6754.59	-54.4	6754.31	-53.52	6754.38		
-52.72	6754.43	-51.5	6754.52	-50.21	6754.62	-49.98	6754.63	-49.53	6754.67		
-49.16	6754.69	-47.07	6754.84	-46.34	6754.9	-44.97	6754.99	-44	6755.07		
-43.92	6755.07	-42.37	6754.53	-42.35	6754.6	-41.83	6754.4	-41.61	6752.75		
-40.86	6752.53	-39.56	6752.17	-38.79	6751.95	-38.08	6751.74	-37.38	6751.5		
-36.67	6751.25	-35.96	6751.01	-35.52	6750.99	-33.46	6750.88	-32.82	6750.82		
-32.42	6750.77	-31.97	6750.73	-30.13	6750.54	-28.88	6750.42	-28.17	6750.43		

-26.1	6750.49	-25.34	6750.51	-24.73	6750.52	-23.53	6750.68	-23.39	6750.69
-22.51	6750.81	-22.04	6750.86	-21.8	6750.9	-21.09	6750.98	-20.69	6751.04
-20.38	6751.07	-20.04	6751.12	-19.67	6751.16	-19.35	6751.21	-18.97	6751.25
-18.54	6751.31	-17.05	6751.61	-15.55	6751.92	-15.31	6751.96	-14.72	6752.08
-13.97	6752.24	-13.3	6752.37	-11.89	6752.66	-11.28	6752.78	-11.07	6752.79
-9.93	6752.81	-8.08	6752.85	-6.93	6752.88	-6.58	6752.88	-5.51	6752.91
-5.09	6752.91	-4.55	6752.93	-3.59	6752.95	-2.68	6752.86	-1.86	6752.79
-.51	6752.66	.83	6752.54	.89	6752.53	2.18	6752.42	3.52	6752.42
3.69	6752.43	4.87	6752.43	5.11	6752.44	6.21	6752.44	6.52	6752.45
7.94	6752.45	8.36	6752.46	9.36	6752.46	9.85	6752.47	10.77	6752.47
11.48	6752.48	11.61	6752.49	12.82	6752.53	13.6	6752.55	14.31	6752.58
14.45	6752.58	15.67	6752.62	16.44	6752.72	17.28	6752.84	17.85	6752.91
19.27	6753.1	19.97	6753.19	20.68	6753.29	21.39	6753.38	22.1	6753.48
23.22	6753.62	24.22	6753.76	24.93	6753.85	25.64	6753.95	26.19	6754.02
27.05	6754.23	28.47	6754.57	29.19	6754.75	29.53	6754.76	30.54	6754.81
30.65	6754.82	31.89	6754.88	32.72	6754.91	33.63	6754.96	34.59	6755
34.84	6755.02	35.94	6755.07	36.26	6755.08	36.97	6755.12	37.29	6755.13
38.63	6755.2	39.8	6755.25	40.51	6755.29	41.08	6755.31	41.92	6755.22
42.57	6755.14	43.34	6755.09	44.75	6755.01	46.17	6754.92	48.07	6754.81
48.29	6754.78	48.54	6754.78	49.42	6754.73	49.71	6754.69	50.03	6754.69
50.77	6754.65	51.12	6754.61	51.52	6754.6	52.12	6754.57	52.54	6754.52
53.01	6754.51	53.47	6754.49	53.96	6754.43	54.5	6754.42	54.82	6754.4
55.37	6754.34	55.99	6754.33	56.16	6754.34	56.79	6754.4	57.48	6754.41
57.83	6754.43	58.2	6754.48	58.86	6754.49	59.62	6754.56	60.21	6754.57
61.04	6754.64	61.56	6754.65	62.45	6754.72	62.9	6754.73	63.45	6754.77
63.87	6754.81	64.25	6754.81	64.58	6754.83	65.29	6754.89	65.6	6754.89
65.99	6754.92	66.43	6754.94	66.7	6754.97	66.95	6754.97	68.29	6755.05
68.83	6755.09	69.64	6755.13	70.99	6755.09	71.7	6755.15	72.33	6755.21
72.4	6755.21	73.07	6755.27	74.49	6755.39	75.2	6755.44	78.03	6755.68
79.07	6755.77	79.86	6755.83	80.15	6755.86	81.57	6755.98	81.76	6755.99
82.28	6756.04	82.85	6756.08	83.11	6756.11	83.69	6756.3	85.5	6756.91
85.8	6757.02	86.53	6757.22	87.15	6757.4	87.94	6757.62	88.5	6757.77
90.07	6758.21	91.19	6758.53	91.81	6758.7	92.54	6758.91	93.88	6759.28
94.31	6759.41	95.02	6759.6	96.28	6759.96	96.58	6760.04	97.78	6760.08
97.92	6760.08	98.56	6760.11	100.62	6760.17	100.69	6760.18	101.39	6760.18
101.97	6760.19	102.81	6760.19	103.31	6760.2	104.23	6760.2	104.66	6760.21
105.24	6760.21	105.64	6760.22	106.73	6760.22	107.06	6760.23	107.77	6760.23
108.23	6760.24	109.18	6760.24	110.05	6760.25	111.21	6760.29	111.39	6760.29
112.7	6760.33	112.74	6760.34	114.09	6760.38	114.2	6760.38	115.44	6760.42
116.26	6760.45	117.18	6760.47	117.68	6760.49	118.39	6760.51	118.67	6760.51
119.1	6760.53	119.8	6760.55	120.82	6760.52	121.66	6760.5	124.05	6760.45
124.76	6760.45	124.86	6760.44	125.47	6760.44	128.9	6760.39	129.12	6760.39
130.25	6760.37	131.84	6760.37	132.11	6760.36	135.38	6760.36	135.64	6760.35
142.37	6760.35	142.46	6760.36	145.54	6760.36	146	6760.34	147.04	6760.31
147.42	6760.29	148.53	6760.26	149.54	6760.22	150.02	6760.21	150.46	6760.19
151.51	6760.13	152.37	6760.07	153.79	6759.98	154.5	6759.94	155.21	6759.89
156.62	6759.8	157.19	6759.76	157.33	6759.76	158.04	6759.71	158.75	6759.67
158.98	6759.65	159.88	6759.59	160.16	6759.58	160.87	6759.53	161.7	6759.48

Manning's n Values		num=		4					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val		
-214.25	.016	-84.78	.05	-41.61	.04	-11.28	.05		

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	-41.61	-11.28		96.09	96.09	96.09		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 1790

INPUT

Description:

Station	Elevation	Data	num=	490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2.33	6756.55	2.65	6756.55	4	6756.47	4.29	6756.46	5.01	6756.42
5.28	6756.42	6.02	6756.38	6.27	6756.4	6.65	6756.38	7.03	6756.37
7.26	6756.48	7.65	6756.38	8.05	6756.41	8.25	6756.39	8.65	6756.41
9.06	6756.45	9.24	6756.44	10.07	6756.52	10.23	6756.53	11.08	6756.61
11.65	6756.66	12.21	6756.73	13.1	6756.83	13.2	6756.83	13.65	6756.89

14.19	6756.94	15.12	6757.02	15.65	6757.07	16.65	6757.17	17.15	6757.21
17.65	6757.26	18.14	6757.29	18.15	6757.3	18.65	6757.34	19.16	6757.37
19.65	6757.41	20.12	6757.44	20.17	6757.45	21.11	6757.51	21.65	6757.55
22.65	6757.59	23.09	6757.59	23.2	6757.61	23.65	6757.61	25.07	6757.64
25.23	6757.64	26.06	6757.66	26.65	6757.67	27.05	6757.71	27.25	6757.72
28.26	6757.82	29.03	6757.9	29.27	6757.93	30.02	6758.01	30.28	6758.03
31.65	6758.18	32.3	6758.27	34.32	6758.57	34.65	6758.61	34.97	6758.66
35.65	6758.75	35.96	6758.8	36.65	6758.89	37.65	6758.92	37.94	6758.95
38.36	6758.93	38.93	6758.99	39.37	6759.03	39.92	6759.09	40.38	6759.13
40.91	6759.19	41.4	6759.23	41.65	6759.26	42.41	6759.39	42.65	6759.44
43.65	6759.61	43.88	6759.64	44.43	6759.6	44.65	6759.62	45.44	6759.59
45.86	6759.57	46.65	6759.54	46.85	6759.45	47.46	6759.15	47.65	6759.05
48.29	6758.74	48.71	6758.52	48.83	6758.49	49.49	6758.29	49.74	6758.29
50.25	6758.38	50.27	6758.35	50.8	6758.46	51.06	6758.48	51.92	6758.64
52.62	6758.65	53.4	6758.71	53.99	6758.77	54.18	6758.83	54.69	6758.83
55.05	6758.87	55.26	6758.88	55.74	6759.02	56.12	6759.03	56.52	6759.21
56.93	6759.07	57.18	6759.15	57.3	6759.13	57.63	6759.11	58.08	6759.1
58.6	6759.1	58.86	6759.09	59.31	6759.09	59.64	6759.08	60.27	6759.07
61.2	6759.06	61.94	6759.03	61.98	6759.01	62.5	6759	62.76	6758.98
63.61	6758.83	64.33	6758.77	65.11	6758.69	65.27	6758.71	65.69	6758.68
66.42	6758.67	66.67	6758.66	67.45	6758.65	67.82	6758.65	69.01	6758.56
69.79	6758.49	69.95	6758.46	70.28	6758.42	70.57	6758.35	71.01	6758.3
71.35	6758.31	71.95	6758.4	72.07	6758.4	72.91	6758.52	73.14	6758.54
73.62	6758.54	73.69	6758.53	74.2	6758.54	74.47	6758.53	75.29	6758.53
76.33	6758.52	76.82	6758.51	77.6	6758.51	78.16	6758.5	78.63	6758.51
79.52	6758.54	79.94	6758.56	80.58	6758.58	81.97	6758.64	82.28	6758.64
82.71	6758.66	83.84	6758.7	84.62	6758.7	84.84	6758.71	85.4	6758.71
85.9	6758.72	86.96	6758.73	88.03	6758.72	88.53	6758.71	89.09	6758.71
89.31	6758.69	90.16	6758.69	90.87	6758.65	91.65	6758.63	92.29	6758.6
92.82	6758.57	93.21	6758.56	94.41	6758.5	95.76	6758.5	96.33	6758.49
97.11	6758.49	97.6	6758.48	98.69	6758.48	99.45	6758.46	105.05	6758.46
105.7	6758.43	106.11	6758.42	106.48	6758.4	108.04	6758.34	108.67	6758.31
109.31	6758.29	109.6	6758.27	110.34	6758.24	111.43	6758.21	112.5	6758.19
112.72	6758.18	113.51	6758.17	113.68	6758.12	114.29	6757.91	114.62	6757.81
115.07	6757.78	115.35	6758.02	115.85	6758.05	116.63	6757.86	116.75	6757.8
117.82	6757.48	118.19	6757.36	119.22	6757.05	119.94	6756.82	120.53	6756.64
121.31	6756.41	122.02	6756.19	124.2	6755.52	125.36	6755.17	126.32	6754.87
127.03	6754.72	127.56	6754.6	128.7	6754.35	129.12	6754.25	129.52	6754.17
129.9	6754.08	131.46	6753.74	132.24	6753.56	132.71	6753.46	133.02	6753.38
133.8	6753.21	134.83	6752.97	135.9	6752.73	136.14	6752.67	136.96	6752.48
137.7	6752.46	138.03	6752.44	138.49	6752.43	139.27	6752.4	140.05	6752.38
140.38	6752.36	141.22	6752.34	141.61	6752.32	142.05	6752.31	142.39	6752.29
143.17	6752.27	143.95	6752.24	144.41	6752.23	144.73	6752.21	145.62	6752.18
146.29	6752.17	147.06	6752.14	147.6	6752.13	147.85	6752.11	148.55	6752.14
148.73	6752.14	149.41	6752.09	149.73	6752.1	150.79	6752.05	150.9	6751.79
151.56	6751.74	151.68	6751.74	152.46	6751.7	152.63	6751.7	152.98	6751.66
153.24	6751.64	153.69	6751.59	155.58	6751.41	155.82	6751.38	156.36	6751.33
157.15	6751.25	158.34	6751.14	160.27	6750.94	161.05	6750.87	161.83	6750.78
162.2	6750.75	162.61	6750.7	163.26	6750.63	164.17	6750.61	164.33	6750.6
165.39	6750.57	166.67	6750.53	167.29	6750.53	167.52	6750.52	168.07	6750.52
170.42	6750.49	170.85	6750.49	171.21	6750.48	171.99	6750.48	172.55	6750.47
173.02	6750.47	173.55	6750.46	173.91	6750.46	174.33	6750.45	175.47	6750.45
175.88	6750.44	177.44	6750.44	178.02	6750.43	179.22	6750.43	179.69	6750.42
181.36	6750.42	182.12	6750.41	183.02	6750.41	183.34	6750.4	184.54	6750.4
185.6	6750.61	186.03	6750.7	186.36	6750.76	188.03	6751.1	188.37	6751.16
188.79	6751.25	189.7	6751.43	190.13	6751.52	190.92	6751.67	191.49	6751.79
191.99	6751.89	192.27	6751.94	193.04	6752.1	193.06	6752.1	193.83	6752.26
194.11	6752.31	194.61	6752.32	194.71	6752.43	195.18	6752.47	195.39	6752.54
195.99	6752.72	196.38	6752.83	197.74	6753.23	198.37	6753.41	198.52	6753.46
199.3	6753.69	200.08	6753.91	200.5	6754.04	200.86	6754.14	201.86	6754.44
202.62	6754.66	203.06	6754.72	203.2	6754.83	203.69	6754.86	203.98	6754.89
204.79	6754.94	205.81	6755.02	206.32	6755	206.88	6754.99	207.1	6754.98
207.72	6754.97	208.66	6754.94	209.44	6754.92	209.74	6754.92	210.23	6754.9
212.2	6754.85	212.57	6754.83	213.07	6754.82	214.13	6754.78	214.32	6754.78
214.74	6754.76	214.91	6754.76	215.69	6754.73	216.41	6754.71	217.25	6754.66
218.08	6754.62	218.81	6754.59	219.75	6754.53	221.15	6754.46	221.93	6754.41
222.39	6754.39	222.83	6754.36	223.09	6754.35	224.28	6754.29	225.06	6754.24
225.32	6754.23	226.03	6754.17	226.62	6754.13	227.09	6754.09	227.4	6754.04
228.1	6754.2	228.25	6754.19	228.96	6754.07	229.22	6754.13	229.74	6754.09
230.28	6754.06	230.52	6754.04	231.18	6754	231.44	6753.99	232.41	6753.93
233.11	6753.88	234.78	6753.78	235.2	6753.75	235.6	6753.73	235.98	6753.7

236.66	6753.66	237.05	6753.63	237.73	6753.59	238.79	6753.75	239.11	6753.79
240.67	6754.02	241.98	6754.22	242.23	6754.25	243.79	6754.48	244.11	6754.53
244.57	6754.68	244.79	6754.63	245.84	6754.91	246.13	6755	246.24	6755.01
246.91	6755.19	247.69	6755.39	248.37	6755.57	249.8	6755.6	250.49	6755.61
250.82	6755.61	251.47	6755.63	252.38	6755.64	252.62	6755.65	253.68	6755.67
253.94	6755.67	254.64	6755.69	255.5	6755.74	256.88	6755.83	257.57	6755.87
257.94	6755.9	259	6755.96	259.82	6756.25	260.18	6756.36	260.5	6756.48
261.13	6756.7	261.49	6756.82	261.74	6756.86	262.19	6757.03	262.52	6757.13
263.44	6757.39	264.83	6757.8	265.65	6758.03	266.37	6758.24	266.49	6758.28
268.16	6758.77	268.77	6758.94	269.64	6759.2	270.33	6759.3	272.23	6759.59
272.67	6759.66	273.45	6759.77	274.23	6759.89	275.17	6760.03	275.79	6760.13
276.02	6760.16	276.51	6760.24	277.09	6760.32	277.36	6760.43	278.1	6760.48
278.18	6760.49	278.92	6760.78	279.21	6760.8	280.28	6761.13	280.48	6761.12
281.52	6761.1	282.04	6761.08	282.82	6761.06	283.19	6761.06	283.96	6761.04
285.16	6761	285.94	6760.97	286.53	6760.96	286.89	6760.94	287.5	6760.92
287.72	6760.92	289.06	6760.87	289.87	6760.85	291.41	6760.79	291.54	6760.79
292.19	6760.76	293.75	6760.7	294.11	6760.68	294.53	6760.68	294.87	6760.65
295.69	6760.63	296.09	6760.63	296.23	6760.62	296.54	6760.62	297.65	6760.59
298.43	6760.58	298.62	6760.57	299.43	6760.56	299.88	6760.55	299.99	6760.54
300.77	6760.53	301.55	6760.51	303.22	6760.51	303.68	6760.5	305.81	6760.5
306.24	6760.49	308.58	6760.49	309	6760.48	311.57	6760.48	311.7	6760.46
312.48	6760.46	313.24	6760.44	314.04	6760.43	314.91	6760.43	315.43	6760.42

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
2.33	.05	150.9	.04	191.49	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
150.9	191.49	216.99	217.01	216.99		.1	.3
Ineffective Flow	num=		1				
Sta L	Sta R	Elev	Permanent				
2.33	43.88	6759.64	F				

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 1789

INPUT

Description:

Station	Elevation	Data	num=		406					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
113.32	6756.78	113.36	6756.77	113.5	6756.74	113.85	6756.67	114.12	6756.61	
114.59	6756.52	114.88	6756.46	115.56	6756.33	115.64	6756.31	115.67	6756.31	
115.76	6756.3	116.4	6756.27	116.76	6756.26	117.16	6756.24	117.66	6756.22	
117.85	6756.21	117.93	6756.21	118.1	6756.2	118.69	6756.17	118.94	6756.16	
119.45	6756.17	119.56	6756.14	120.03	6756.13	120.21	6756.13	120.64	6756.12	
120.97	6756.13	121.11	6756.12	121.47	6756.1	121.73	6756.09	122.2	6756.06	
122.5	6756.05	123.18	6756.01	123.26	6756.01	123.29	6756	123.37	6756	
124.02	6755.96	124.38	6755.93	124.78	6755.91	125.28	6755.87	125.47	6755.86	
125.54	6755.86	125.72	6755.84	126.3	6755.81	126.55	6755.79	127.06	6755.75	
127.18	6755.75	127.64	6755.72	127.83	6755.7	128.26	6755.67	128.59	6755.65	
128.73	6755.64	129.08	6755.62	129.35	6755.6	129.82	6755.57	130.11	6755.55	
130.8	6755.5	130.87	6755.5	130.91	6755.49	130.99	6755.49	131.63	6755.44	
131.99	6755.42	132.4	6755.41	133.08	6755.41	133.16	6755.4	133.92	6755.4	
134.17	6755.39	134.68	6755.39	134.79	6755.38	135.44	6755.38	135.87	6755.37	
136.2	6755.36	136.35	6755.36	136.7	6755.35	136.97	6755.35	137.43	6755.34	
137.73	6755.32	138.41	6755.29	138.49	6755.28	138.52	6755.28	138.6	6755.27	
139.25	6755.23	139.61	6755.21	140.01	6755.18	140.51	6755.15	140.7	6755.14	
140.77	6755.13	140.95	6755.12	141.54	6755.08	141.79	6755.07	142.3	6755.03	
142.41	6755.03	142.87	6755	143.06	6754.99	143.49	6754.97	143.82	6754.96	
143.96	6754.95	144.31	6754.94	144.58	6754.93	145.05	6754.91	145.34	6754.9	
146.03	6754.88	146.1	6754.87	146.22	6754.87	146.87	6754.85	147.22	6754.83	
147.63	6754.81	148.12	6754.8	148.31	6754.79	148.39	6754.79	148.57	6754.78	
149.15	6754.76	149.4	6754.75	149.91	6754.73	150.02	6754.72	150.49	6754.7	
150.67	6754.7	151.11	6754.68	151.44	6754.66	151.58	6754.66	151.93	6754.64	
152.2	6754.63	152.66	6754.61	152.96	6754.59	153.65	6754.56	153.72	6754.55	
153.83	6754.55	154.48	6754.54	154.84	6754.53	155.24	6754.52	155.74	6754.51	
155.93	6754.5	156.18	6754.5	156.77	6754.49	157.02	6754.48	157.53	6754.46	
157.64	6754.47	158.1	6754.45	158.29	6754.44	158.72	6754.43	159.05	6754.42	

159.19	6754.42	159.54	6754.39	159.81	6754.38	160.28	6754.35	160.57	6754.33
161.26	6754.29	161.34	6754.28	161.45	6754.28	162.1	6754.24	162.46	6754.21
162.86	6754.19	163.35	6754.16	163.54	6754.15	163.62	6754.14	163.8	6754.13
164.38	6754.1	164.63	6754.08	165.14	6754.07	165.25	6754.07	165.72	6754.05
165.91	6754.05	166.34	6754.04	166.67	6754.03	166.81	6754.03	167.16	6754.02
167.43	6754.02	167.9	6754	168.19	6754	168.88	6753.99	168.95	6753.99
168.98	6753.98	169.06	6753.98	169.71	6753.97	170.07	6753.97	170.48	6753.96
170.97	6753.95	171.24	6753.95	171.42	6753.94	172	6753.94	172.25	6753.93
172.76	6753.92	173.34	6753.92	173.52	6753.91	174.28	6753.91	174.42	6753.92
174.77	6753.92	175.05	6753.93	175.51	6753.94	175.81	6753.98	176.5	6754.01
176.57	6754.02	176.6	6754.02	176.68	6754.03	177.33	6754.11	177.69	6754.13
178.09	6754.17	178.58	6754.22	178.78	6754.24	178.85	6754.25	179.03	6754.27
179.61	6754.32	179.86	6754.35	180.31	6753.6	180.32	6753.75	180.32	6753.6
180.66	6753.49	183.96	6752.71	185.95	6751.85	190.33	6751.14	191.79	6750.87
194.03	6750.72	197.63	6750.43	199.99	6750.42	203.48	6750.4	206.26	6750.38
208.82	6750.37	209.65	6750.37	215.16	6750.36	218.76	6750.36	219.31	6750.35
221.01	6750.35	224.01	6750.36	226.85	6750.35	228.97	6750.37	231.26	6750.44
232.69	6750.49	238.39	6750.63	238.54	6750.64	238.63	6750.64	244.38	6750.36
248.3	6750.47	250.22	6750.63	253.17	6751.79	256.07	6752.74	257.96	6753.17
261.91	6753.83	262.05	6753.86	262.5	6753.94	262.61	6753.96	262.79	6753.99
263.34	6754.09	263.67	6754.15	264.06	6754.22	264.72	6754.35	264.79	6754.36
264.84	6754.37	265.01	6754.4	265.52	6754.49	266	6754.58	266.25	6754.63
266.65	6754.7	266.98	6754.76	267.17	6754.8	267.71	6754.9	267.97	6754.95
268.34	6755.02	268.43	6755.03	268.59	6755.06	269.16	6755.17	269.51	6755.24
269.89	6755.31	270.52	6755.42	270.62	6755.44	270.68	6755.45	270.93	6755.5
271.35	6755.58	271.85	6755.67	272.07	6755.72	272.45	6755.79	272.8	6755.85
273.02	6755.89	273.53	6755.99	273.88	6756.05	274.18	6756.11	274.26	6756.13
274.38	6756.15	274.99	6756.28	275.35	6756.35	275.72	6756.43	276.31	6756.55
276.44	6756.58	276.52	6756.59	276.84	6756.66	277.17	6756.73	277.69	6756.83
277.9	6756.88	278.25	6756.95	278.63	6757.03	278.86	6757.07	279.36	6757.18
279.8	6757.27	280.03	6757.31	280.09	6757.33	280.18	6757.35	280.81	6757.48
281.2	6757.56	281.54	6757.63	282.11	6757.74	282.27	6757.78	282.37	6757.8
282.75	6757.88	283	6757.93	283.53	6758.04	283.73	6758.08	284.04	6758.14
284.45	6758.23	284.7	6758.28	285.18	6758.39	285.71	6758.48	285.87	6758.52
286.64	6758.52	287.04	6758.51	287.37	6758.51	287.91	6758.5	288.21	6758.5
288.67	6758.49	288.82	6758.49	289.38	6758.48	289.84	6758.48	290.28	6758.47
290.55	6758.47	291.01	6758.46	291.63	6758.45	291.77	6758.45	292.47	6758.44
292.88	6758.44	293.19	6758.43	293.92	6758.43	294.05	6758.42	294.65	6758.42
295.22	6758.41	295.38	6758.41	295.64	6758.4	296.39	6758.4	296.83	6758.39
297.54	6758.38	297.57	6758.38	298.29	6758.49	298.73	6758.56	299.02	6758.6
299.5	6758.68	299.75	6758.72	299.9	6758.74	300.48	6758.83	300.5	6758.83
301.06	6758.92	301.2	6758.94	301.43	6758.97	301.93	6759.05	302.23	6759.1
302.66	6759.16	303.37	6759.27	303.39	6759.27	303.4	6759.28	303.45	6759.28
304.12	6759.38	304.57	6759.45	304.84	6759.5	305.3	6759.57	305.57	6759.58
305.74	6759.59	306.3	6759.62	306.41	6759.63	306.91	6759.65	307.03	6759.66
307.23	6759.67	307.76	6759.7	308.08	6759.71	308.49	6759.74	309.16	6759.77
309.21	6759.78	309.24	6759.78	309.37	6759.8	309.94	6759.92	310.41	6760.01
310.67	6760.06	311.1	6760.14	311.4	6760.2	311.58	6760.24	312.13	6760.35
312.33	6760.39	312.75	6760.47	312.86	6760.48	313.03	6760.53	313.58	6760.64
313.92	6760.7	314.31	6760.72	314.96	6760.91	315.04	6760.92	315.09	6760.93
315.28	6760.97	315.77	6760.97	316.26	6761.11	316.5	6761.14	316.89	6761.2
317.22	6761.22	317.43	6761.27	317.95	6761.35	318.24	6761.39	318.59	6761.44
318.68	6761.45	318.83	6761.47	319.41	6761.55	319.76	6761.6	320.14	6761.66
320.62	6761.66								

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
113.32	.05	180.32	.04
		261.91	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	180.32	261.91		144.48	144.48	144.48		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 1640.

INPUT
 Description:
 Station Elevation Data num= 78

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6754.08	.81	6754.08	1.4	6754.09	1.63	6754.09	1.94	6754.08
2.44	6754.08	2.58	6754.07	2.81	6754.07	3.26	6754.06	3.61	6754.05
4.08	6754.05	4.23	6754.04	4.65	6754.04	4.89	6754.03	5.65	6754.02
5.79	6754.02	6.52	6754.01	6.72	6754.01	7.06	6753.98	7.34	6753.95
7.76	6753.91	8.16	6753.87	8.48	6753.84	8.79	6753.81	8.97	6753.79
9.64	6753.73	9.79	6753.72	9.83	6753.71	9.9	6753.71	10.6	6753.64
10.86	6753.61	11.32	6753.57	11.42	6753.52	11.9	6753.49	12.23	6753.43
12.73	6753.35	12.93	6753.32	13.05	6753.3	13.48	6753.23	13.87	6753.17
13.97	6753.15	14.15	6753.12	14.68	6752.51	18.03	6751.76	20.56	6751.26
22.11	6750.97	26.45	6750.42	31.58	6750.56	32.33	6750.57	33.64	6750.57
38.3	6750.54	40.77	6750.53	44.27	6750.52	45.43	6750.49	49.92	6750.41
50.24	6750.41	50.86	6750.52	56.22	6751.37	57.93	6752.28	59.06	6752.88
60.95	6754.13	62.19	6754.48	64.56	6755.11	68.16	6755.93	68.18	6755.94
68.2	6755.94	74.13	6756.17	77.34	6756.23	80.1	6756.31	85.3	6757.11
86.08	6757.21	86.49	6757.35	92.05	6759.41	95.63	6760.13	98.02	6760.34
99.22	6760.38	99.22	6756.16	100.24	6756.37				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	14.68	.04	57.93	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
14.68 57.93 0 0 0 .3 .5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	14.66	6757.5	F
65.52	100.24	6757.5	F

CROSS SECTION

RIVER: Walton Creek
REACH: lower RS: 1578

INPUT

Description:

Station Elevation Data num= 21

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-212.95	6760	-205.24	6758.97	-182.92	6756	-12.79	6751.95	122.61	6752
134.44	6752	135.43	6752	162.72	6752	172.31	6752	172.31	6747.66
191.21	6745.89	192.99	6745.7	193.91	6745.6	212.61	6745.19	214.21	6744.57
221.31	6745.25	222.21	6747.93	222.91	6746.67	233.31	6747.13	233.31	6756
472.31	6758								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-212.95	.05	172.31	.04	233.31	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
172.31 233.31 122 122 122 .3 .5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-212.95	172.05	6757.5	F
233.05	472.31	6757.5	F

BRIDGE

RIVER: Walton Creek
REACH: lower RS: 1516

INPUT

Description: US40

Distance from Upstream XS = 16

Deck/Roadway Width = 94

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 5

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-212.95		6760			173.05	6757.64	6754.64			191.05	6757.53	6754.53		

233.55 6757.78 6754.78 472.05 6761.3

Upstream Bridge Cross Section Data

Station Elevation Data		num= 18							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-212.95	6760	-182.95	6756	-12.95	6751.95	134.18	6752	135.17	6752
162.46	6752	172.05	6752	172.05	6747.66	190.95	6745.89	193.65	6745.6
212.35	6745.19	213.95	6744.57	221.05	6745.25	221.95	6747.93	222.65	6746.67
233.05	6747.13	233.05	6756	472.05	6758				

Manning's n Values		num= 4					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-212.95	.05	172.05	.03	212.35	.015	233.05	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	172.05	233.05		.3	.5

Ineffective Flow		num= 2	
Sta L	Sta R	Elev	Permanent
-212.95	172.05	6757.5	F
233.05	472.05	6757.5	F

Downstream Deck/Roadway Coordinates

num= 5											
Sta	Hi	Cord	Lo Cord	Sta	Hi	Cord	Lo Cord	Sta	Hi	Cord	Lo Cord
10	6760			386	6757.64	6754.64		414	6757.53	6754.53	
446.5	6757.78	6754.78		688	6761.3						

Downstream Bridge Cross Section Data

Station Elevation Data		num= 17							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10	6758	47	6754	385	6752	387	6746.2	405.9	6745.22
406.3	6745.25	407.4	6745.41	407.9	6745.42	426.9	6744.9	427.7	6744.9
428.7	6745.85	435.8	6746.23	436.2	6747.84	436.9	6745.97	448	6746.48
448	6752	688	6753.82						

Manning's n Values		num= 4					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
10	.05	385	.03	426.9	.015	448	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	385	448		.3	.5

Ineffective Flow		num= 2	
Sta L	Sta R	Elev	Permanent
10	385	6757.5	F
448	688	6757.5	F

Upstream Embankment side slope	=	0 horiz. to 1.0 vertical
Downstream Embankment side slope	=	0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.95
Elevation at which weir flow begins	=	
Energy head used in spillway design	=	
Spillway height used in design	=	
Weir crest shape	=	Broad Crested

Number of Piers = 2

Pier Data

Pier Station	Upstream=	192.05	Downstream=	405
Upstream	num=	2		
Width	Elev	Width	Elev	
2	6700	2	6800	
Downstream	num=	2		
Width	Elev	Width	Elev	
2	6700	2	6800	

Pier Data

Pier Station	Upstream=	213.05	Downstream=	426
Upstream	num=	2		
Width	Elev	Width	Elev	
2	6700	2	6800	
Downstream	num=	2		

Width	Elev	Width	Elev
2	6700	2	6800

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy

Selected Low Flow Methods = Energy

High Flow Method

Pressure and Weir flow

Submerged Inlet Cd =

Submerged Inlet + Outlet Cd = .8

Max Low Cord =

Additional Bridge Parameters

Add Friction component to Momentum

Do not add Weight component to Momentum

Class B flow critical depth computations use critical depth

inside the bridge at the upstream end

Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 1455

INPUT

Description:

Station Elevation Data		num=		17					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10	6758	47	6754	385	6752	387	6746.2	405.9	6745.22
406.3	6745.25	407.4	6745.41	407.9	6745.42	426.9	6744.9	427.7	6744.9
428.7	6745.85	435.8	6746.23	436.2	6747.84	436.9	6745.97	448	6746.48
448	6752	688	6753.82						

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
10	.05	385	.04	448	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	385	448		0	0	.3	.5

Ineffective Flow		num=		2	
Sta L	Sta R	Elev	Permanent		
10	385	6757.5	F		
448	688	6757.5	F		

CROSS SECTION

RIVER: Walton Creek

REACH: main upper RS: 13645

INPUT

Description: copied 13145

Station Elevation Data		num=		14					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6825.24	184.11	6823.43	202.83	6821.13	289.96	6821.82	351.13	6821.23
378.63	6818.68	382.79	6818.29	391.92	6817.46	401.06	6817.92	409.29	6820.45
411.15	6821.02	431.99	6822.37	574.42	6823.03	766.45	6824.63		

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	351.13	.04	431.99	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	351.13	431.99		500	500	.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: main upper

RS: 13145

INPUT

Description:

Station	Elevation	Data	num=	14						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	6825.24	184.11	6823.43	202.83	6821.13	289.96	6821.82	351.13	6821.23	
378.63	6818.68	382.79	6818.29	391.92	6817.46	401.06	6817.92	409.29	6820.45	
411.15	6821.02	431.99	6822.37	574.42	6823.03	766.45	6824.63			

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	351.13	.04	431.99	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	351.13	431.99		0	0	0		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: split

RS: 12570

INPUT

Description:

Station	Elevation	Data	num=	8						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	6812.48	176.58	6810.91	212.25	6807.4	217.61	6807.76	234.53	6809.04	
243.4	6808.97	373.68	6809.99	420.68	6810.57					

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	176.58	.045	234.53	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	176.58	243.4		88	85.4	68		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: split

RS: 12514.2*

INPUT

Description:

Station	Elevation	Data	num=	11						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
81.6	6811.91	237.86	6810.15	260.67	6807.69	271.4	6806.66	276.59	6806.98	
277.27	6807.02	295.8	6808.06	298.84	6808.04	305.52	6808.46	427.53	6809.39	
471.54	6809.89									

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
81.6	.058	237.86	.044	298.84	.056	305.52	.06	471.54	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	237.86	305.52		88	85.4	68		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: split

RS: 12458.4*

INPUT

Description:

Station	Elevation	Data	num=	11						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
163.2	6811.34	299.15	6809.38	320.5	6806.87	330.55	6805.92	336.19	6806.25	

336.93 6806.27 357.08 6807.08 360.38 6807.07 367.64 6807.96 481.38 6808.78
522.41 6809.21

Manning's n Values num= 5
Sta n Val Sta n Val Sta n Val Sta n Val Sta n Val
163.2 .056 299.15 .043 360.38 .052 367.64 .06 522.41 .06
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
299.15 367.64 88 85.4 68 .1 .3

CROSS SECTION

RIVER: Walton Creek
REACH: split RS: 12402.6*

INPUT

Description:

Station Elevation Data num= 11
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
244.8 6810.77 360.43 6808.62 380.33 6806.04 389.7 6805.18 395.8 6805.51
396.59 6805.53 418.35 6806.1 421.92 6806.1 429.76 6807.45 535.22 6808.18
573.27 6808.52

Manning's n Values num= 5
Sta n Val Sta n Val Sta n Val Sta n Val Sta n Val
244.8 .054 360.43 .042 421.92 .048 429.76 .06 573.27 .06
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
360.43 429.76 88 85.4 68 .1 .3

CROSS SECTION

RIVER: Walton Creek
REACH: split RS: 12346.8*

INPUT

Description:

Station Elevation Data num= 11
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
326.4 6810.2 421.72 6807.85 440.17 6805.21 448.85 6804.44 455.4 6804.78
456.25 6804.79 479.63 6805.12 483.46 6805.12 491.88 6806.95 589.07 6807.57
624.14 6807.84

Manning's n Values num= 5
Sta n Val Sta n Val Sta n Val Sta n Val Sta n Val
326.4 .052 421.72 .041 483.46 .044 491.88 .06 624.14 .06
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
421.72 491.88 88 85.4 68 .3 .5

CROSS SECTION

RIVER: Walton Creek
REACH: split RS: 12291

INPUT

Description:

Station Elevation Data num= 9
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
408 6809.63 483 6807.09 500 6804.38 508 6803.7 515 6804.04
545 6804.15 554 6806.44 675 6807.16 675 6809

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
408 .05 483 .04 554 .06
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
483 554 88 88 88 .3 .5

Ineffective Flow	num=	2
Sta L	Sta R	Elev Permanent
408	483	6809.5 F
554	675	6809.5 F

BRIDGE

RIVER: Walton Creek
REACH: split RS: 12250

INPUT

Description:

Distance from Upstream XS = 24
Deck/Roadway Width = 38
Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num=	8
Sta Hi Cord Lo Cord	Sta Hi Cord Lo Cord
0 6807.13	150 6807.18
370 6807.98	495 6809.89 6807.9
648 6808.65	675 6809

Upstream Bridge Cross Section Data

Station Elevation Data	num=	9
Sta Elev	Sta Elev	Sta Elev
408 6809.63	483 6807.09	500 6804.38
545 6804.15	554 6806.44	675 6807.16

Manning's n Values

num=	3
Sta n Val	Sta n Val
408 .05	483 .04
	554 .06

Bank Sta: Left	Right	Coeff Contr.	Expan.
483	554	.3	.5

Ineffective Flow	num=	2
Sta L	Sta R	Elev Permanent
408	483	6809.5 F
554	675	6809.5 F

Downstream Deck/Roadway Coordinates

num=	8
Sta Hi Cord Lo Cord	Sta Hi Cord Lo Cord
0 6807.13	150 6807.18
370 6807.98	495 6809.89 6807.9
648 6808.65	675 6809

Downstream Bridge Cross Section Data

Station Elevation Data	num=	9
Sta Elev	Sta Elev	Sta Elev
408 6809.63	483 6807.09	500 6804.38
545 6804.15	554 6806.44	675 6807.16

Manning's n Values

num=	3
Sta n Val	Sta n Val
408 .05	483 .04
	554 .06

Bank Sta: Left	Right	Coeff Contr.	Expan.
483	554	.3	.5

Ineffective Flow	num=	2
Sta L	Sta R	Elev Permanent
408	483	6809 F
554	675	6809 F

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Energy Only

```
Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
    inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line
```

CROSS SECTION

RIVER: Walton Creek
REACH: split RS: 12202

INPUT

Description:

Station Elevation Data		num=		9					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
408	6809.63	483	6807.09	500	6804.38	508	6803.7	515	6804.04
545	6804.15	554	6806.44	675	6807.16	675	6809		

Manning's	n	Values		num=	3
Sta	n	Val	Sta	n	Val
408		.05	483		.04
			554		.06

Bank Sta:	Left	Right	Lengths:		Left	Channel	Right	Coeff	Contr.	Expan.
	483	554			85	85	85		.3	.5

Ineffective Flow		num=	2
Sta L	Sta R	Elev	Permanent
408	483	6809	F
554	675	6809	F

CROSS SECTION

RIVER: Walton Creek
REACH: split RS: 12112

INPUT

Description:

Station Elevation Data				num=	7						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
813.4	6806.57	849.67	6804.22	869.23	6801.1	873.08	6801.09	883.44	6801.29		
894.32	6802.58	1058.33	6804.96								

Manning's	n Values		num=	3	
Sta	n Val	Sta	n Val	Sta	n Val
813.4	.06	813.4	.04	1058.33	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	813.4	1058.33		0	0	0		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: main split RS: 12570.

INPUT

Description:

Station Elevation Data		num=	10						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev

455.26	6812.85	462.78	6810.04	482.09	6809.05	493.72	6808.31	539.31	6807.54
561.71	6807.23	571.14	6809.38	581.85	6809.38	609.38	6818.29	710.39	6823.74

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
455.26	.06	462.78	.04	581.85	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	462.78	581.85		270	270		.3	.5

CROSS SECTION

RIVER: Walton Creek
 REACH: main split RS: 12291

INPUT

Description:

Station Elevation Data num= 11

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
675	6807.16	791	6807.65	829	6807.25	847	6802.32	856	6801.38
868	6802.42	876	6808.91	889	6809.13	937	6808.04	974	6819.92
1164	6825.96								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
675	.06	791	.04	889	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	829	876		88	88		.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
675	814	6811.5	F
889	1164	6813	F

BRIDGE

RIVER: Walton Creek
 REACH: main split RS: 12250

INPUT

Description:

Distance from Upstream XS = 24
 Deck/Roadway Width = 38
 Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num=	8								
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
675	6808.65				829	6811.56			
847	6812.14	6810.65			869	6812.5	6810.72		
1054	6823.37				1164	6827.8			

Upstream Bridge Cross Section Data

Station Elevation Data num= 11

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
675	6807.16	791	6807.65	829	6807.25	847	6802.32	856	6801.38
868	6802.42	876	6808.91	889	6809.13	937	6808.04	974	6819.92
1164	6825.96								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
675	.06	791	.04	889	.06

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	829	876		.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
675	814	6811.5	F
889	1164	6813	F

Downstream Deck/Roadway Coordinates

num= 7														
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
675	6808.65				831	6811.7	6810.58			843	6812.14	6810.65		
865	6812.5	6810.72			965	6815.51				1080	6823.37			
1190	6827.8													

Downstream Bridge Cross Section Data

Station Elevation Data				num= 10							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
675	6807.16	829	6805.71	838	6802.5	852	6801.65	865	6802.53		
876	6804.94	903	6807.02	963	6808.04	1000	6819.92	1190	6825.96		

Manning's n Values

num= 3			
Sta	n Val	Sta	n Val
675	.06	829	.04
		903	.06

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	829	876		.3	.5

Ineffective Flow				num= 2	
Sta L	Sta R	Elev	Permanent		
675	820	6810	F		
880	1190	6812.8	F		

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy

Selected Low Flow Methods = Energy

High Flow Method

Pressure and Weir flow	
Submerged Inlet Cd	=
Submerged Inlet + Outlet Cd	= .8
Max Low Cord	=

Additional Bridge Parameters

Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek

REACH: main split RS: 12202

INPUT

Description:

Station Elevation Data				num= 10			
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
675	6807.16	829	6805.71	838	6802.5	852	6801.65
876	6804.94	903	6807.02	963	6808.04	1000	6819.92
						1190	6825.96

Manning's n Values

num= 3			
Sta	n Val	Sta	n Val
675	.06	829	.04
		903	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	829	876		85	85		.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
675	820	6810	F
880	1190	6812.8	F

CROSS SECTION

RIVER: Walton Creek
 REACH: main split RS: 12112

INPUT

Description:

Station	Elevation	Data	num=	11
Sta	Elev	Sta	Elev	Sta
1058.33	6804.96	1111.05	6804.41	1127.99
1148.46	6801.24	1152.04	6801.77	1173.98
1503.96	6830.17			

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
1058.33	.06	1111.05	.04
		1173.98	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	1111.05	1173.98		0	0	0		.1	.3

Ineffective Flow	num=	2
Sta L	Sta R	Elev
1058.33	1058.33	6812
1210	1503.96	6812

SUMMARY OF MANNING'S N VALUES

River:Walton Creek

Reach	River Sta.	n1	n2	n3	n4	n5	n6
n7							
lower-split	1001	.016	.025	.06	.04	.06	.04
.06							
lower-split	1000.8	Lat Struct					
lower-split	1000	.016	.025	.04	.05	.04	.05
lower-split	999.7	Lat Struct					
lower-split	999.6	.016	.025	.05	.04	.05	
lower-split	999	.016	.025	.05	.04	.05	
lower-split	998.8	.016	.04	.04	.05		
lower-split	998.7	.016	.04	.05			
lower-split	998.56	.045	.04	.045			
lower-split	998.5	.016	.025	.4	.02	.016	
lower-split	998.46	Culvert					
lower-split	998.4	.016	.025	.04	.05		
lower-split	998.35	Lat Struct					
lower-split	998.3	.016	.025	.04			
lower-split	998.2	.016	.04				
lower-split	998	.016	.04	.038			
lower-split	997.8	.016	.04	.038			
lower-split	997	.016	.025	.035	.016		
lower-split	996.45	Culvert					
lower-split	996	.016	.04	.016			
lower-split	995.7	.016	.04	.05			
lower-split	995.5	.016	.025	.035	.045		
lower-split	995.45	Culvert					
lower-split	995.4	.016	.038	.04			
lower-split	995.2	.016	.038	.04			
lower-split	995	.038	.038	.05			
lower-DE	11692	.06	.04	.06			
lower-DE	11280	.06	.04	.06			
lower-DE	10714	.06	.04	.06			
lower-DE	9997	.06	.04	.06			
lower-DE	9471	.06	.04	.06			
lower-DE	9027	.06	.04	.06			

lower-DE	8734	.06	.04	.06		
lower-DE	8402	.06	.04	.06		
lower-DE	8070	.06	.04	.06		
lower-DE	7577	.06	.04	.06		
lower-DE	7176.41	.06	.04	.06		
lower-DE	6775.68	.06	.04	.06		
lower-DE	6375	.06	.04	.06		
lower-main split	5893	.05	.04	.05		
lower-main split	5892.0	.05	.04	.05		
lower-main split	5550.12	.05	.04	.05		
lower-main split	5209	.05	.04	.05		
lower-main split	4667	.05	.04	.05		
lower-main split	4571.82	.05	.04	.05		
lower-main split	4262.82	.05	.04	.05		
lower-main split	4220.82	Bridge				
lower-main split	4178.71	.05	.04	.05		
lower-main split	4033.14	.05	.04	.05		
lower-main split	3887.57	.05	.04	.05		
lower-main split	3742	.05	.04	.05		
lower-main split	3640	.05	.04	.05		
lower-main split	3639	.05	.04	.05		
lower-main split	3622	Bridge				
lower-main split	3609	.05	.04	.05		
lower-main split	3379	.05	.04	.05		
lower-main split	3035	.05	.04	.05		
lower-main split	2665	.1	.016	.05	.04	.05
lower-main split	2539	.1	.016	.05	.04	.05
lower-main split	2528	Bridge				
lower-main split	2517	.1	.05	.016	.05	.04 .05
lower-main split	2294	.1	.016	.05	.04	.05
lower-main split	2103	.016	.05	.04	.05	
lower-main split	1790	.05	.04	.05		
lower-main split	1789	.05	.04	.05		
lower-main split	1640.	.05	.04	.05		
lower	1578	.05	.04	.05		
lower	1516	Bridge				
lower	1455	.05	.04	.05		
main upper	13645	.06	.04	.06		
main upper	13145	.06	.04	.06		
split	12570	.06	.045	.06		
split	12514.2*	.058	.044	.056	.06	.06
split	12458.4*	.056	.043	.052	.06	.06
split	12402.6*	.054	.042	.048	.06	.06
split	12346.8*	.052	.041	.044	.06	.06
split	12291	.05	.04	.06		
split	12250	Bridge				
split	12202	.05	.04	.06		
split	12112	.06	.04	.06		
main split	12570.	.06	.04	.06		
main split	12291	.06	.04	.06		
main split	12250	Bridge				
main split	12202	.06	.04	.06		
main split	12112	.06	.04	.06		

SUMMARY OF REACH LENGTHS

River: Walton Creek

Reach	River Sta.	Left	Channel	Right
lower-split	1001	224.95	230.26	224.95
lower-split	1000.8	Lat Struct		
lower-split	1000	573.3	630.03	573.3
lower-split	999.7	Lat Struct		
lower-split	999.6	309.31	313.36	309.31
lower-split	999	541.75	549.59	541.75
lower-split	998.8	78.95	79.9	78.95
lower-split	998.7	137.57	137.57	137.57

lower-split	998.56	139.84	139.84	139.84
lower-split	998.5	146.04	146.04	146.04
lower-split	998.46	Culvert		
lower-split	998.4	59.41	59.41	59.41
lower-split	998.35	Lat Struct		
lower-split	998.3	145.25	145.76	145.25
lower-split	998.2	164.57	165.08	164.57
lower-split	998	117.79	106.55	117.79
lower-split	997.8	450.46	450.19	450.46
lower-split	997	76.24	76.23	76.24
lower-split	996.45	Culvert		
lower-split	996	207.67	207.09	207.67
lower-split	995.7	159.9	159.28	159.9
lower-split	995.5	105.25	105.25	105.25
lower-split	995.45	Culvert		
lower-split	995.4	197.72	197.72	197.72
lower-split	995.2	127.75	127.76	127.75
lower-split	995	0	0	0
lower-DE	11692	420	411.17	390.88
lower-DE	11280	570	566.57	485.84
lower-DE	10714	505.72	625.08	497.71
lower-DE	9997	498.86	617.68	510
lower-DE	9471	313.68	444.1	280.09
lower-DE	9027	285.55	293.44	280.09
lower-DE	8734	275	331.69	275
lower-DE	8402	275	331.69	275
lower-DE	8070	335	493.05	345.36
lower-DE	7577	132.77	132.77	132.77
lower-DE	7176.41	163.08	163.08	163.08
lower-DE	6775.68	132.85	132.85	132.85
lower-DE	6375	223	223	223
lower-main split	5893	263.61	263.61	263.61
lower-main split	5892.0	142.82	142.83	142.82
lower-main split	5550.12	190.33	190.32	190.33
lower-main split	5209	949.69	949.69	949.69
lower-main split	4667	112.11	112.11	112.11
lower-main split	4571.82	307.12	307.12	307.12
lower-main split	4262.82	84.42	84.42	84.42
lower-main split	4220.82	Bridge		
lower-main split	4178.71	151.67	151.67	151.67
lower-main split	4033.14	150.79	150.79	150.79
lower-main split	3887.57	146.75	146.75	146.75
lower-main split	3742	54.92	54.92	54.92
lower-main split	3640	54.86	54.86	54.86
lower-main split	3639	30.52	30.51	30.52
lower-main split	3622	Bridge		
lower-main split	3609	221.26	221.27	221.26
lower-main split	3379	315	355.57	350
lower-main split	3035	373.7	373.7	373.7
lower-main split	2665	129.59	130.14	129.59
lower-main split	2539	21.59	21.03	21.59
lower-main split	2528	Bridge		
lower-main split	2517	219.85	219.86	219.85
lower-main split	2294	191.29	191.29	191.29
lower-main split	2103	96.09	96.09	96.09
lower-main split	1790	216.99	217.01	216.99
lower-main split	1789	144.48	144.48	144.48
lower-main split	1640.	0	0	0
lower	1578	122	122	122
lower	1516	Bridge		
lower	1455	0	0	0
main upper	13645	500	500	500
main upper	13145	0	0	0
split	12570	88	85.4	68
split	12514.2*	88	85.4	68
split	12458.4*	88	85.4	68
split	12402.6*	88	85.4	68
split	12346.8*	88	85.4	68
split	12291	88	88	88
split	12250	Bridge		
split	12202	85	85	85

split	12112	0	0	0
main split	12570.	270	270	270
main split	12291	88	88	88
main split	12250	Bridge		
main split	12202	85	85	85
main split	12112	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Walton Creek

Reach	River Sta.	Contr.	Expan.
lower-split	1001	.1	.3
lower-split	1000.8	Lat Struct	
lower-split	1000	.1	.3
lower-split	999.7	Lat Struct	
lower-split	999.6	.1	.3
lower-split	999	.1	.3
lower-split	998.8	.1	.3
lower-split	998.7	.1	.3
lower-split	998.56	.1	.3
lower-split	998.5	.3	.5
lower-split	998.46	Culvert	
lower-split	998.4	.3	.5
lower-split	998.35	Lat Struct	
lower-split	998.3	.1	.3
lower-split	998.2	.1	.3
lower-split	998	.1	.3
lower-split	997.8	.1	.3
lower-split	997	.3	.5
lower-split	996.45	Culvert	
lower-split	996	.3	.5
lower-split	995.7	.1	.3
lower-split	995.5	.3	.5
lower-split	995.45	Culvert	
lower-split	995.4	.3	.5
lower-split	995.2	.1	.3
lower-split	995	.1	.3
lower-DE	11692	.1	.3
lower-DE	11280	.1	.3
lower-DE	10714	.1	.3
lower-DE	9997	.1	.3
lower-DE	9471	.1	.3
lower-DE	9027	.1	.3
lower-DE	8734	.1	.3
lower-DE	8402	.1	.3
lower-DE	8070	.1	.3
lower-DE	7577	.1	.3
lower-DE	7176.41	.1	.3
lower-DE	6775.68	.1	.3
lower-DE	6375	.1	.3
lower-main split	5893	.1	.3
lower-main split	5892.0	.1	.3
lower-main split	5550.12	.1	.3
lower-main split	5209	.1	.3
lower-main split	4667	.1	.3
lower-main split	4571.82	.1	.3
lower-main split	4262.82	.3	.5
lower-main split	4220.82	Bridge	
lower-main split	4178.71	.3	.5
lower-main split	4033.14	.1	.3
lower-main split	3887.57	.1	.3
lower-main split	3742	.1	.3
lower-main split	3640	.1	.3
lower-main split	3639	.3	.5
lower-main split	3622	Bridge	
lower-main split	3609	.3	.5

lower-main split	3379	.1	.3
lower-main split	3035	.1	.3
lower-main split	2665	.3	.5
lower-main split	2539	.3	.5
lower-main split	2528	Bridge	
lower-main split	2517	.3	.5
lower-main split	2294	.1	.3
lower-main split	2103	.1	.3
lower-main split	1790	.1	.3
lower-main split	1789	.1	.3
lower-main split	1640.	.3	.5
lower	1578	.3	.5
lower	1516	Bridge	
lower	1455	.3	.5
main upper	13645	.1	.3
main upper	13145	.1	.3
split	12570	.1	.3
split	12514.2*	.1	.3
split	12458.4*	.1	.3
split	12402.6*	.1	.3
split	12346.8*	.3	.5
split	12291	.3	.5
split	12250	Bridge	
split	12202	.3	.5
split	12112	.1	.3
main split	12570.	.3	.5
main split	12291	.3	.5
main split	12250	Bridge	
main split	12202	.3	.5
main split	12112	.1	.3

Profile Output Table - Standard Table 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
main upper	13645	100-yr	1883.00	6817.46	6824.21		6824.31	0.000942	3.06	1128.53	611.91	0.26
main upper	13145	100-yr	1883.00	6817.46	6822.35	6822.35	6823.10	0.011698	7.52	341.13	238.80	0.83
split	12570	100-yr	654.14	6807.40	6810.36		6810.55	0.008154	4.16	223.87	221.13	0.56
split	12514.2*	100-yr	654.14	6806.66	6809.64		6809.89	0.008172	4.46	203.55	206.95	0.59
split	12458.4*	100-yr	654.14	6805.92	6808.87		6809.19	0.008648	4.82	176.26	186.21	0.62
split	12402.6*	100-yr	654.14	6805.18	6808.46		6808.67	0.004216	3.86	222.38	205.00	0.46
split	12346.8*	100-yr	654.14	6804.44	6808.36		6808.45	0.001306	2.63	339.53	223.23	0.27
split	12291	100-yr	654.14	6803.70	6808.27	6805.86	6808.37	0.000826	2.52	259.49	226.73	0.23
split	12250		Bridge									
split	12202	100-yr	654.14	6803.70	6805.85	6805.85	6806.61	0.020050	6.98	93.72	60.95	0.99
split	12112	100-yr	654.14	6801.09	6806.04		6806.06	0.000286	1.13	576.89	236.68	0.13
main split	12570.	100-yr	1228.86	6807.23	6809.84	6809.77	6810.55	0.008243	6.78	181.59	116.59	0.95
main split	12291	100-yr	1228.86	6801.38	6807.81	6806.11	6808.40	0.004270	6.19	203.93	199.64	0.53
main split	12250		Bridge									
main split	12202	100-yr	1228.86	6801.65	6806.63	6805.67	6807.32	0.005690	6.71	191.66	167.15	0.61
main split	12112	100-yr	1228.86	6800.95	6806.63	6804.69	6806.85	0.001640	3.93	390.73	139.57	0.34
lower-DE	11692	100-yr	1883.00	6799.38	6804.48	6804.48	6805.22	0.008492	7.52	380.77	310.65	0.73
lower-DE	11280	100-yr	1883.00	6791.13	6795.21	6794.38	6795.65	0.010546	6.21	426.35	309.53	0.76
lower-DE	10714	100-yr	1883.00	6783.81	6790.43	6789.96	6790.75	0.007455	4.53	415.78	244.92	0.61
lower-DE	9997	100-yr	1883.00	6781.76	6785.56	6785.12	6785.95	0.008868	6.90	528.67	503.47	0.73
lower-DE	9471	100-yr	1883.00	6775.50	6780.79	6780.45	6781.44	0.006749	6.88	360.55	201.80	0.64
lower-DE	9027	100-yr	1883.00	6773.68	6777.23	6776.70	6778.03	0.009136	7.18	268.20	996.85	0.74
lower-DE	8734	100-yr	1883.00	6771.83	6777.12	6775.11	6777.21	0.000891	2.47	890.94	1784.04	0.24
lower-DE	8402	100-yr	1883.00	6772.45	6776.76	6775.66	6776.85	0.001415	2.79	953.02	1642.82	0.29
lower-DE	8070	100-yr	1883.00	6773.07	6775.39	6775.39	6775.75	0.018372	6.05	494.78	1391.90	0.93
lower-DE	7577	100-yr	1883.00	6765.79	6768.57	6767.68	6768.63	0.003756	2.91	1018.87	1277.80	0.43
lower-DE	7176.41	100-yr	1883.00	6764.97	6768.32	6766.75	6768.39	0.001070	2.26	955.69	821.63	0.25
lower-DE	6775.68	100-yr	1883.00	6765.16	6768.29	6768.29	6768.30	0.000259	1.14	2513.64	1128.41	0.12
lower-DE	6375	100-yr	1883.00	6764.27	6767.46	6767.11	6767.48	0.000487	1.44	2046.76	1064.04	0.17
lower-split	1001	100-yr	497.14	6763.00	6766.39	6766.39	6767.01	0.012129	6.66	97.83	693.65	0.81
lower-split	1000.8		Lat Struct									
lower-split	1000	100-yr	503.94	6763.04	6764.60		6764.61	0.000149	0.40	646.72	330.04	0.08
lower-split	999.7		Lat Struct									
lower-split	999.6	100-yr	504.04	6761.26	6763.95	6763.95	6764.30	0.011857	5.56	146.18	274.17	0.77
lower-split	999	100-yr	519.76	6757.51	6763.94		6763.95	0.000144	1.03	805.84	365.28	0.09
lower-split	998.8	100-yr	662.68	6756.96	6763.88		6763.89	0.000078	0.97	927.95	239.12	0.07
lower-split	998.7	100-yr	760.60	6758.40	6763.46		6763.83	0.004836	5.02	175.11	117.22	0.52
lower-split	998.56	100-yr	851.26	6757.62	6763.43		6763.53	0.000844	2.59	330.94	88.21	0.23
lower-split	998.5	100-yr	1001.26	6757.02	6763.41	6760.63	6763.49	0.000138	0.13	523.49	123.53	0.01
lower-split	998.46		Culvert									
lower-split	998.4	100-yr	1001.26	6756.42	6762.35		6762.45	0.000773	2.55	436.02	143.57	0.22
lower-split	998.35		Lat Struct									
lower-split	998.3	100-yr	992.90	6755.91	6762.32		6762.40	0.000598	2.30	461.94	137.88	0.20
lower-split	998.2	100-yr	979.45	6754.38	6762.26		6762.32	0.000392	2.03	517.05	138.78	0.16
lower-split	998	100-yr	957.87	6754.86	6762.21		6762.26	0.000292	1.92	562.33	149.20	0.15

lower-split	997.8	100-yr	946.45	6753.98	6762.19		6762.23	0.000225	1.63	597.42	143.76	0.13
lower-split	997	100-yr	873.44	6753.95	6761.96	6760.49	6762.08	0.000498	2.54	320.08	153.67	0.20
lower-split	996.45		Culvert									
lower-split	996	100-yr	873.44	6752.86	6761.73		6761.85	0.000626	2.68	319.78	142.12	0.20
lower-split	995.7	100-yr	816.97	6754.13	6761.59		6761.70	0.000779	2.82	338.19	113.41	0.23
lower-split	995.5	100-yr	793.00	6752.66	6761.49	6758.51	6761.59	0.000578	3.09	356.60	108.02	0.22
lower-split	995.45		Culvert									
lower-split	995.4	100-yr	793.00	6751.50	6759.99	6757.45	6760.16	0.000906	3.65	262.23	63.18	0.26
lower-split	995.2	100-yr	720.55	6752.33	6758.44	6758.44	6759.50	0.008382	9.07	102.16	46.81	0.76
lower-split	995	100-yr	720.55	6751.22	6755.48	6755.48	6756.61	0.013596	9.22	93.62	41.92	0.94
lower-main split	5893	100-yr	1385.86	6764.64	6766.85		6767.01	0.003856	3.31	438.74	283.68	0.44
lower-main split	5892.0	100-yr	1379.06	6761.21	6764.73	6764.73	6765.42	0.009868	7.29	257.41	200.88	0.77
lower-main split	5550.12	100-yr	881.74	6761.21	6763.44		6763.63	0.009013	4.55	301.39	385.96	0.66
lower-main split	5209	100-yr	881.74	6759.71	6762.56	6761.66	6762.67	0.003061	2.68	345.08	259.85	0.39
lower-main split	4667	100-yr	881.74	6757.16	6761.09	6759.58	6761.14	0.000987	2.44	639.95	519.10	0.25
lower-main split	4571.82	100-yr	881.74	6757.22	6760.83	6759.80	6760.97	0.002098	3.69	345.52	170.88	0.36
lower-main split	4262.82	100-yr	881.74	6754.54	6759.66	6758.31	6760.08	0.003933	5.49	217.62	377.89	0.50
lower-main split	4220.82		Bridge									
lower-main split	4178.71	100-yr	881.74	6753.81	6759.34	6757.79	6759.42	0.000826	2.85	514.55	269.41	0.24
lower-main split	4033.14	100-yr	1162.45	6753.43	6759.01		6759.20	0.001672	4.00	419.42	246.96	0.34
lower-main split	3887.57	100-yr	1162.45	6752.84	6758.63		6758.90	0.002322	4.65	342.47	156.93	0.40
lower-main split	3742	100-yr	1162.45	6752.95	6758.55		6758.63	0.000981	3.21	599.82	235.66	0.26
lower-main split	3640	100-yr	1162.45	6752.89	6758.21	6756.91	6758.52	0.002897	4.75	296.77	140.96	0.43
lower-main split	3639	100-yr	1162.45	6752.65	6758.14	6755.89	6758.37	0.001852	3.86	302.88	81.13	0.35
lower-main split	3622		Bridge									
lower-main split	3609	100-yr	1162.45	6753.33	6758.00		6758.29	0.002819	4.32	268.90	81.84	0.42
lower-main split	3379	100-yr	1162.45	6752.32	6757.41	6755.54	6757.71	0.002417	4.58	311.27	489.64	0.40
lower-main split	3035	100-yr	1263.45	6751.55	6756.99	6755.25	6757.10	0.001167	3.03	569.43	637.61	0.28
lower-main split	2665	100-yr	1263.45	6747.30	6756.98		6756.99	0.000082	1.37	1634.58	480.85	0.08
lower-main split	2539	100-yr	1263.45	6747.21	6756.96	6750.26	6756.98	0.000096	1.13	1298.91	395.63	0.08
lower-main split	2528		Bridge									
lower-main split	2517	100-yr	1263.45	6747.41	6756.92		6756.96	0.000188	1.53	827.60	159.42	0.12
lower-main split	2294	100-yr	1263.45	6751.03	6756.66		6756.83	0.001435	3.58	432.77	168.10	0.31
lower-main split	2103	100-yr	1263.45	6750.42	6756.19		6756.47	0.002349	5.15	370.25	145.76	0.41
lower-main split	1790	100-yr	1263.45	6750.40	6756.06	6753.85	6756.28	0.001466	4.28	403.73	136.83	0.33
lower-main split	1789	100-yr	1263.45	6750.35	6755.90		6756.03	0.000776	2.97	479.52	148.09	0.24
lower-main split	1640.	100-yr	1263.45	6750.41	6754.98	6753.84	6755.73	0.005375	6.97	185.98	64.08	0.60
lower	1578	100-yr	1984.00	6744.57	6755.26	6749.30	6755.46	0.000551	3.55	559.48	385.01	0.21
lower	1516		Bridge									
lower	1455	100-yr	1984.00	6744.90	6755.04	6748.88	6755.22	0.000549	3.40	583.77	650.62	0.20

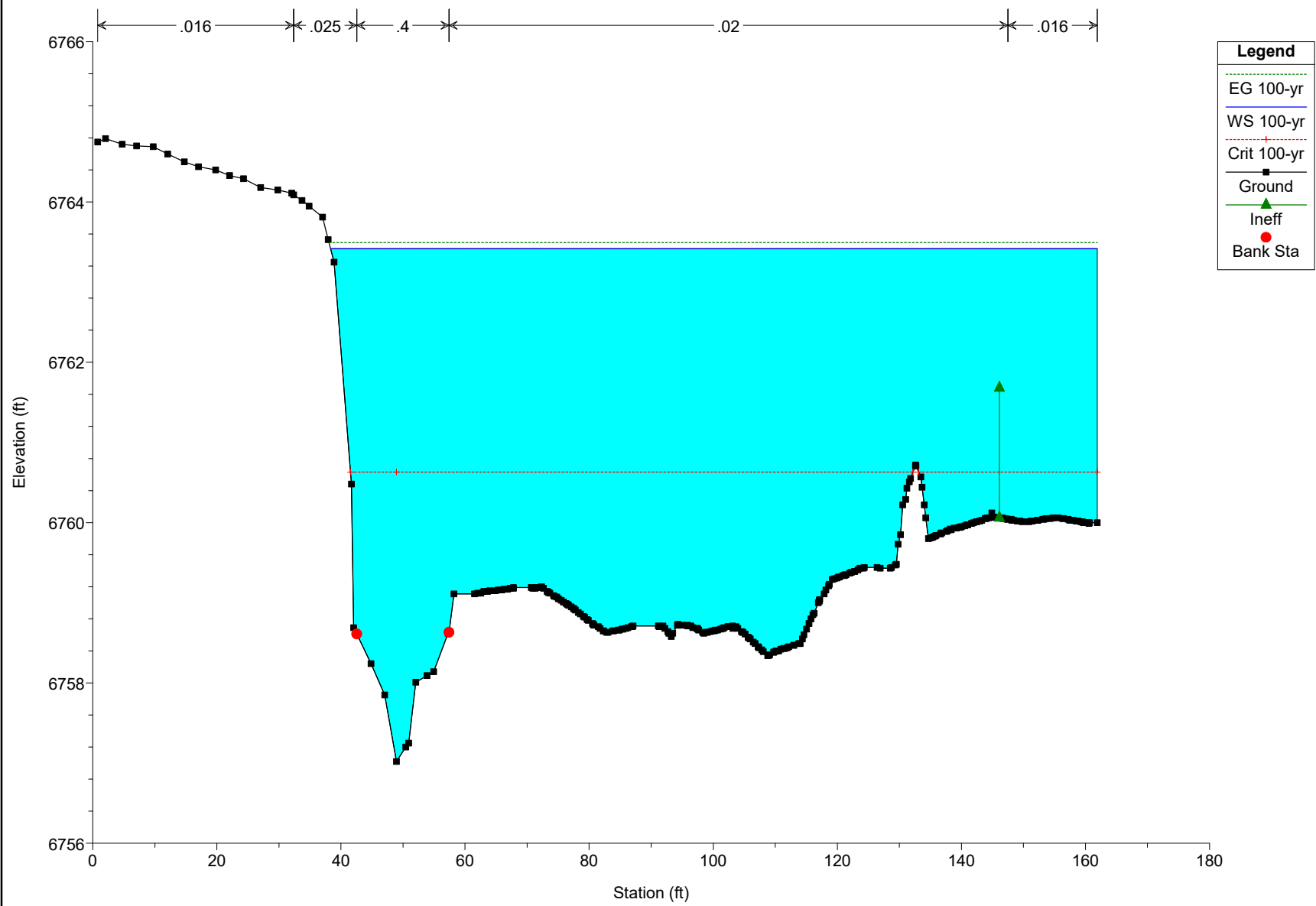
Profile Output Table - Standard Table 2

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frctn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)	
main upper	13645	100-yr	6824.31	6824.21	0.09	1.14	0.07	549.51	1097.91	235.59	611.91	
main upper	13145	100-yr	6823.10	6822.35	0.75	7.93	0.01	316.98	1566.02		238.80	
split	12570	100-yr	6810.55	6810.36	0.20	0.66	0.01		434.06	220.08	221.13	

split	12514.2*	100-yr	6809.89	6809.64	0.25	0.69	0.01		506.88	147.27	206.95
split	12458.4*	100-yr	6809.19	6808.87	0.32	0.49	0.03		575.30	78.84	186.21
split	12402.6*	100-yr	6808.67	6808.46	0.21	0.18	0.03		577.81	76.34	205.00
split	12346.8*	100-yr	6808.45	6808.36	0.09	0.09	0.00	2.23	536.72	115.20	223.23
split	12291	100-yr	6808.37	6808.27	0.10	0.04	0.12		654.14		226.73
split	12250		Bridge								
split	12202	100-yr	6806.61	6805.85	0.76	0.08	0.37		654.14		60.95
split	12112	100-yr	6806.06	6806.04	0.02	0.76	0.07		654.14		236.68
main split	12570.	100-yr	6810.55	6809.84	0.71	2.09	0.06		1228.46	0.40	116.59
main split	12291	100-yr	6808.40	6807.81	0.59	0.14	0.12	10.63	1218.22		199.64
main split	12250		Bridge								
main split	12202	100-yr	6807.32	6806.63	0.68	0.24	0.24	13.63	1192.24	22.98	167.15
main split	12112	100-yr	6806.85	6806.63	0.21	1.57	0.05	157.48	1054.10	17.28	139.57
lower-DE	11692	100-yr	6805.22	6804.48	0.74	3.85	0.09	306.82	1575.97	0.21	310.65
lower-DE	11280	100-yr	6795.65	6795.21	0.43	4.86	0.03	2.11	1193.55	687.35	309.53
lower-DE	10714	100-yr	6790.75	6790.43	0.32	4.79	0.01		1883.00		244.92
lower-DE	9997	100-yr	6785.95	6785.56	0.39	4.48	0.03	1.20	856.95	1024.85	503.47
lower-DE	9471	100-yr	6781.44	6780.79	0.65	3.40	0.01	226.55	1656.45		201.80
lower-DE	9027	100-yr	6778.03	6777.23	0.80	0.61	0.21		1877.16	5.84	996.85
lower-DE	8734	100-yr	6777.21	6777.12	0.09	0.36	0.00	178.95	1702.00	2.05	1784.04
lower-DE	8402	100-yr	6776.85	6776.76	0.09	1.08	0.03	536.35	1341.43	5.22	1642.82
lower-DE	8070	100-yr	6775.75	6775.39	0.36	2.80	0.09	854.15	1028.85		1391.90
lower-DE	7577	100-yr	6768.63	6768.57	0.06	0.24	0.00	1539.37	343.63		1277.80
lower-DE	7176.41	100-yr	6768.39	6768.32	0.07	0.08	0.02	147.66	1729.88	5.46	821.63
lower-DE	6775.68	100-yr	6768.30	6768.29	0.01	0.05	0.00	1616.53	132.90	133.57	1128.41
lower-DE	6375	100-yr	6767.48	6767.46	0.01	0.45	0.02	1544.53	220.64	117.83	1064.04
lower-split	1001	100-yr	6767.01	6766.39	0.62	0.11	0.18	57.11	439.96	0.06	693.65
lower-split	1000.8		Lat Struct								
lower-split	1000	100-yr	6764.61	6764.60	0.01	0.29	0.03	482.98	10.11	10.86	330.04
lower-split	999.7		Lat Struct								
lower-split	999.6	100-yr	6764.30	6763.95	0.34	0.14	0.10	127.25	334.14	42.65	274.17
lower-split	999	100-yr	6763.95	6763.94	0.01	0.05	0.00	254.57	115.46	149.72	365.28
lower-split	998.8	100-yr	6763.89	6763.88	0.01	0.02	0.04	188.01	127.16	347.51	239.12
lower-split	998.7	100-yr	6763.83	6763.46	0.37	0.22	0.08	0.37	721.28	38.95	117.22
lower-split	998.56	100-yr	6763.53	6763.43	0.10	0.04	0.01		847.34	3.92	88.21
lower-split	998.5	100-yr	6763.49	6763.41	0.08			6.42	10.77	984.06	123.53
lower-split	998.46		Culvert								
lower-split	998.4	100-yr	6762.45	6762.35	0.10	0.04	0.01	96.15	812.73	92.38	143.57
lower-split	998.35		Lat Struct								
lower-split	998.3	100-yr	6762.40	6762.32	0.08	0.07	0.01	2.39	920.39	70.12	137.88
lower-split	998.2	100-yr	6762.32	6762.26	0.06	0.06	0.00	1.41	920.81	57.23	138.78
lower-split	998	100-yr	6762.26	6762.21	0.05	0.03	0.00	32.69	741.50	183.68	149.20
lower-split	997.8	100-yr	6762.23	6762.19	0.04	0.14	0.01	0.32	935.37	10.76	143.76
lower-split	997	100-yr	6762.08	6761.96	0.13			32.60	338.48	502.36	153.67
lower-split	996.45		Culvert								
lower-split	996	100-yr	6761.85	6761.73	0.12	0.14	0.00	23.36	500.38	349.70	142.12
lower-split	995.7	100-yr	6761.70	6761.59	0.11	0.11	0.00	20.75	718.33	77.89	113.41
lower-split	995.5	100-yr	6761.59	6761.49	0.10			7.59	459.83	325.58	108.02
lower-split	995.45		Culvert								
lower-split	995.4	100-yr	6760.16	6759.99	0.17	0.39	0.27	10.21	555.68	227.11	63.18

lower-split	995.2	100-yr	6759.50	6758.44	1.07	1.34	0.01	25.85	578.40	116.30	46.81
lower-split	995	100-yr	6756.61	6755.48	1.13	0.00	0.28	25.22	583.71	111.62	41.92
lower-main split	5893	100-yr	6767.01	6766.85	0.17	1.54	0.05	53.21	1332.66		283.68
lower-main split	5892.0	100-yr	6765.42	6764.73	0.69	1.36	0.15	215.47	1121.55	42.04	200.88
lower-main split	5550.12	100-yr	6763.63	6763.44	0.19	0.93	0.02	485.10	391.76	4.88	385.96
lower-main split	5209	100-yr	6762.67	6762.56	0.11	1.52	0.02	40.41	841.33		259.85
lower-main split	4667	100-yr	6761.14	6761.09	0.05	0.16	0.01	479.75	391.24	10.75	519.10
lower-main split	4571.82	100-yr	6760.97	6760.83	0.14	0.86	0.03	422.28	455.69	3.78	170.88
lower-main split	4262.82	100-yr	6760.08	6759.66	0.42	0.11	0.10		783.78	97.97	377.89
lower-main split	4220.82		Bridge								
lower-main split	4178.71	100-yr	6759.42	6759.34	0.08	0.18	0.03	208.81	474.29	198.65	269.41
lower-main split	4033.14	100-yr	6759.20	6759.01	0.19	0.30	0.01	180.13	850.01	132.32	246.96
lower-main split	3887.57	100-yr	6758.90	6758.63	0.27	0.21	0.06	262.40	892.18	7.88	156.93
lower-main split	3742	100-yr	6758.63	6758.55	0.08	0.09	0.02	498.43	373.93	290.09	235.66
lower-main split	3640	100-yr	6758.52	6758.21	0.32	0.13	0.03	115.77	1027.54	19.15	140.96
lower-main split	3639	100-yr	6758.37	6758.14	0.23	0.02	0.00	1.97	1160.48		81.13
lower-main split	3622		Bridge								
lower-main split	3609	100-yr	6758.29	6758.00	0.29	0.58	0.00		1162.45		81.84
lower-main split	3379	100-yr	6757.71	6757.41	0.30	0.55	0.06	101.19	1061.26		489.64
lower-main split	3035	100-yr	6757.10	6756.99	0.10	0.08	0.03	447.33	778.64	37.48	637.61
lower-main split	2665	100-yr	6756.99	6756.98	0.02	0.01	0.00	505.42	610.03	148.00	480.85
lower-main split	2539	100-yr	6756.98	6756.96	0.02	0.00	0.00	28.21	1168.92	66.32	395.63
lower-main split	2528		Bridge								
lower-main split	2517	100-yr	6756.96	6756.92	0.04	0.09	0.04	0.04	1263.41		159.42
lower-main split	2294	100-yr	6756.83	6756.66	0.17	0.35	0.01	22.84	1080.01	160.60	168.10
lower-main split	2103	100-yr	6756.47	6756.19	0.28	0.18	0.02	42.38	768.00	453.07	145.76
lower-main split	1790	100-yr	6756.28	6756.06	0.22	0.23	0.03	180.79	909.93	172.74	136.83
lower-main split	1789	100-yr	6756.03	6755.90	0.13	0.24	0.06	61.77	1192.00	9.69	148.09
lower-main split	1640.	100-yr	6755.73	6754.98	0.75	0.00	0.28	0.15	1248.40	14.90	64.08
lower	1578	100-yr	6755.46	6755.26	0.20			1.30	1982.70		385.01
lower	1516		Bridge								
lower	1455	100-yr	6755.22	6755.04	0.18				1984.00		650.62

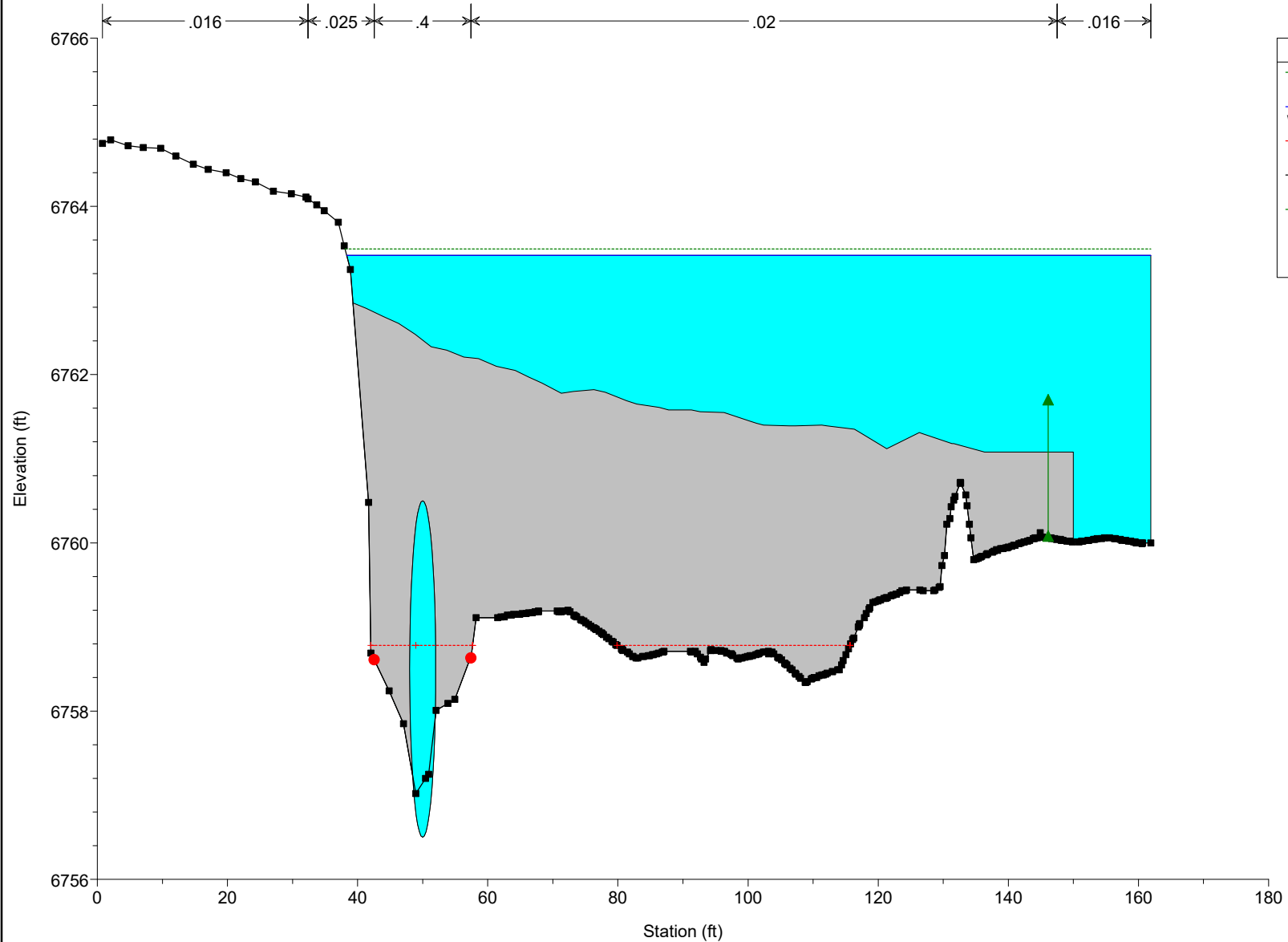
Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 EC 10/2/2022



Hampton Inn & Holiday Inn Express Proposed Development

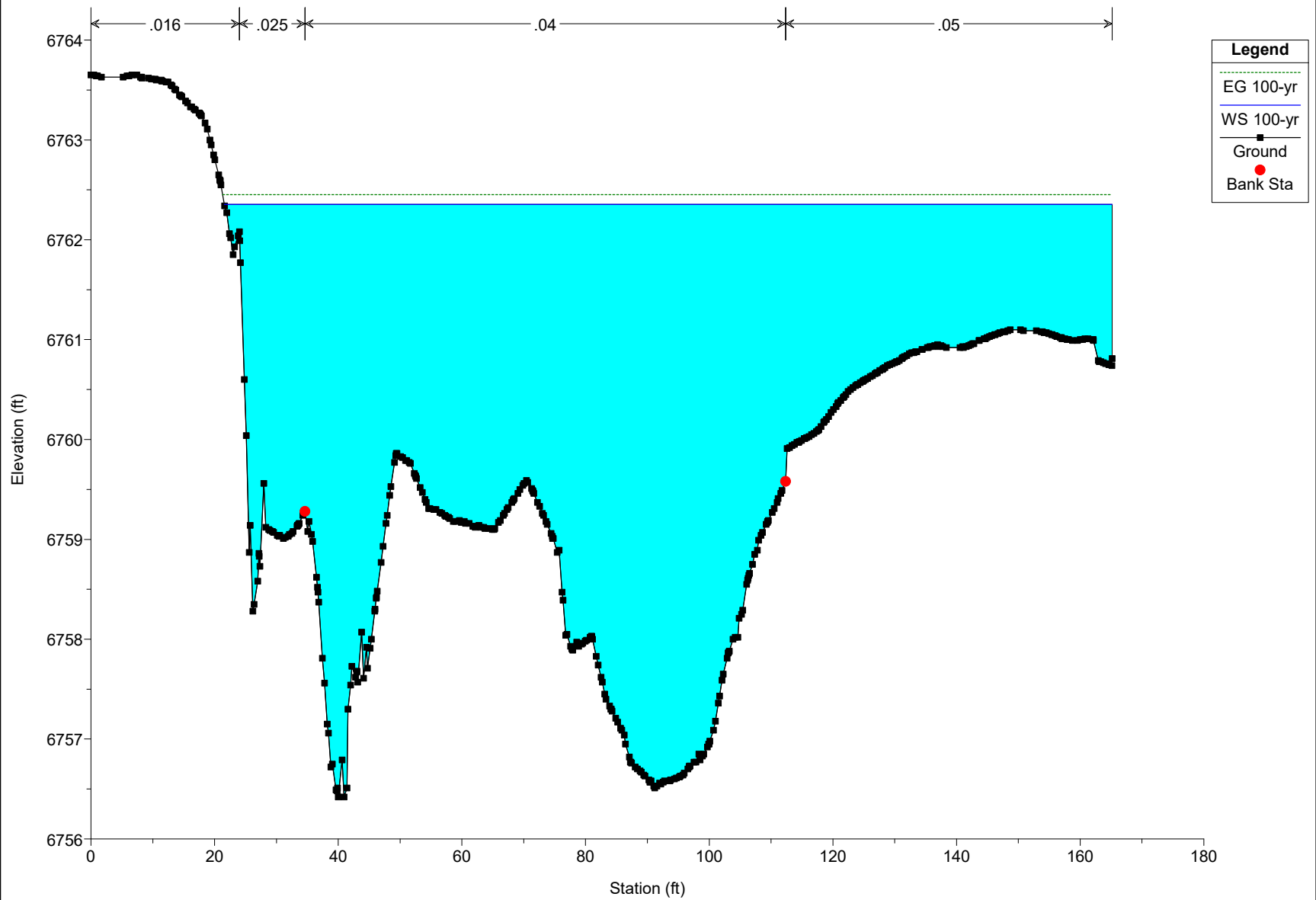
Plan: WC 100 EC 10/2/2022

Stone Lane Culverts

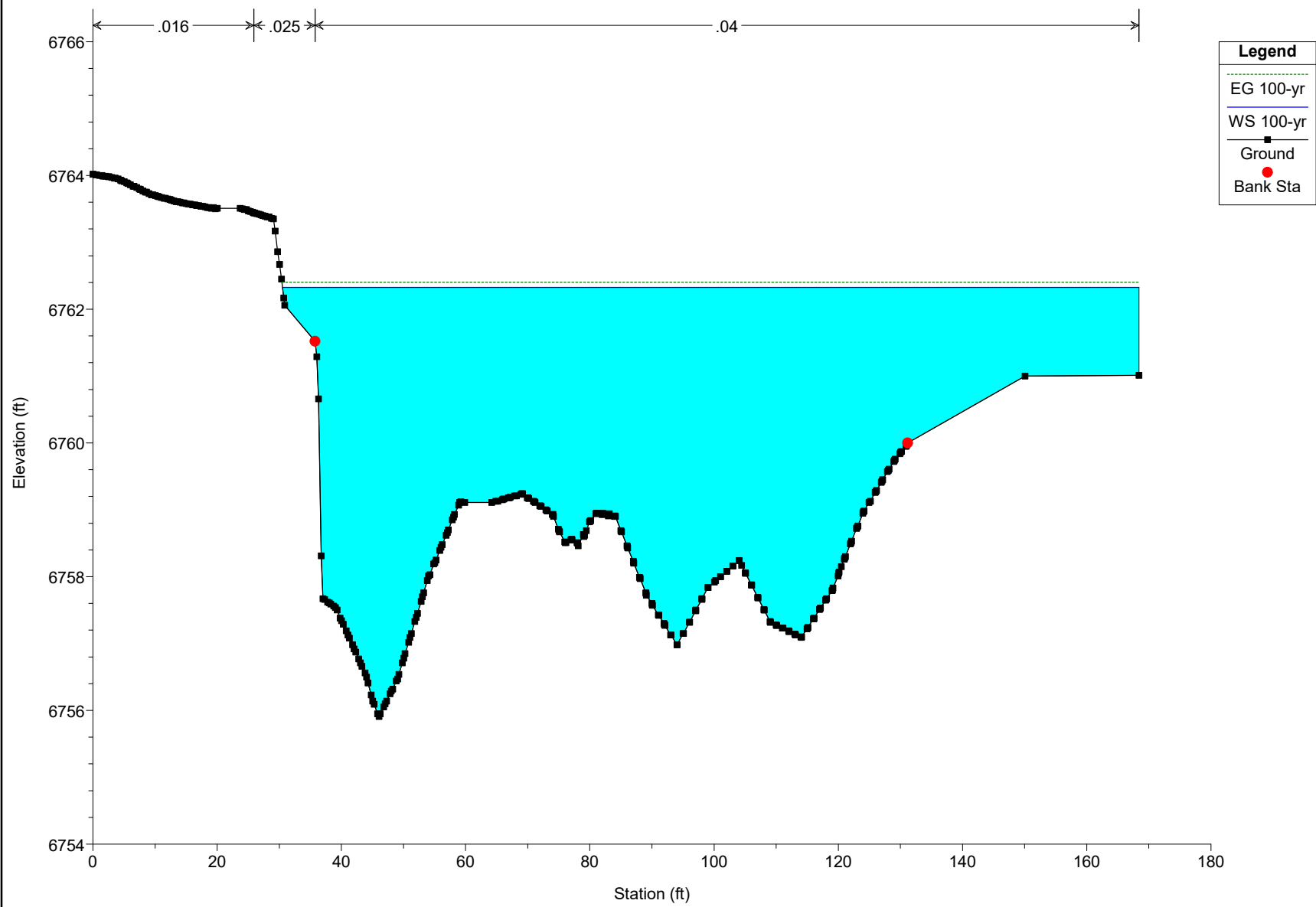


Legend
EG 100-yr
WS 100-yr
Crit 100-yr
Ground
Ineff
Bank Sta

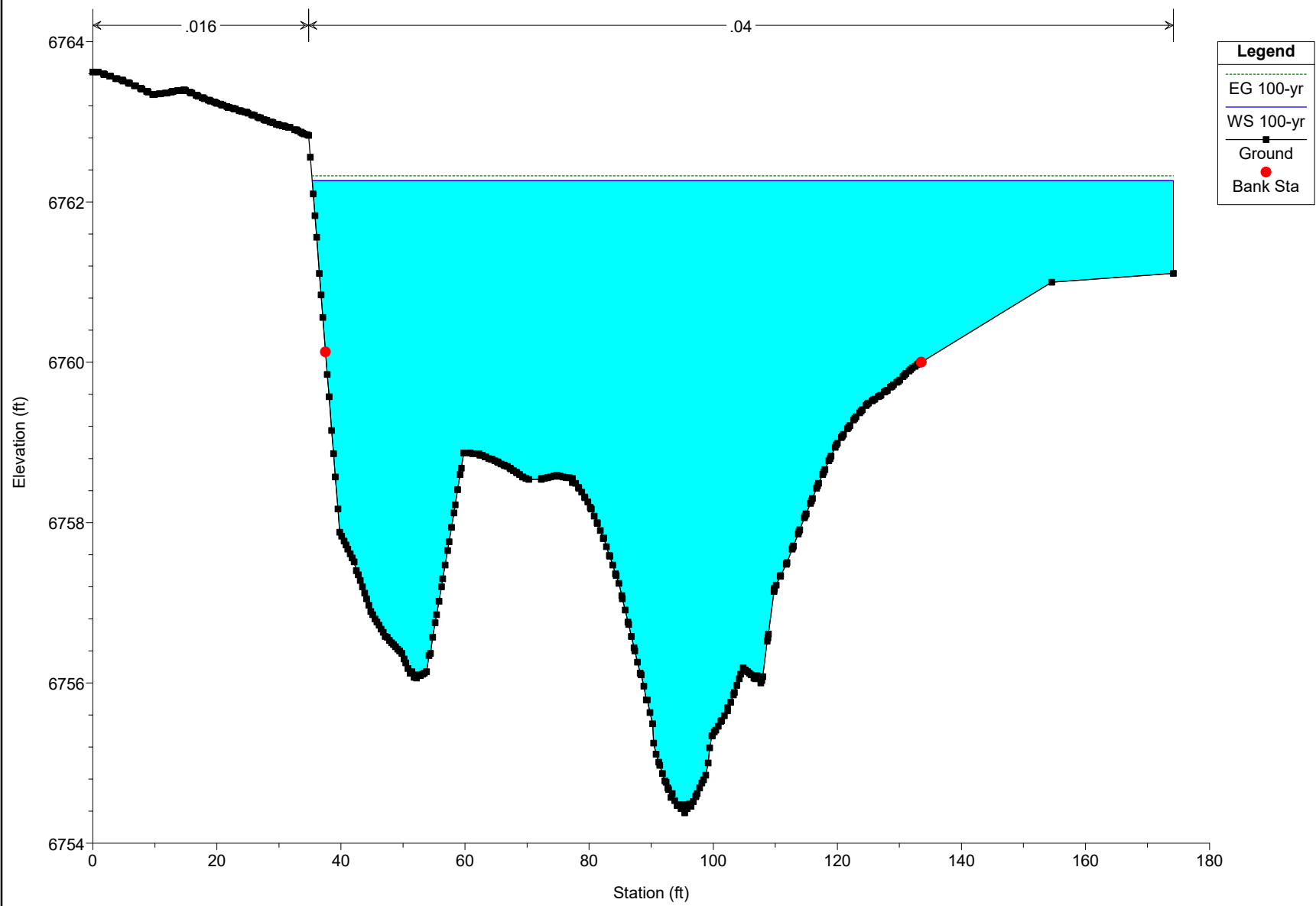
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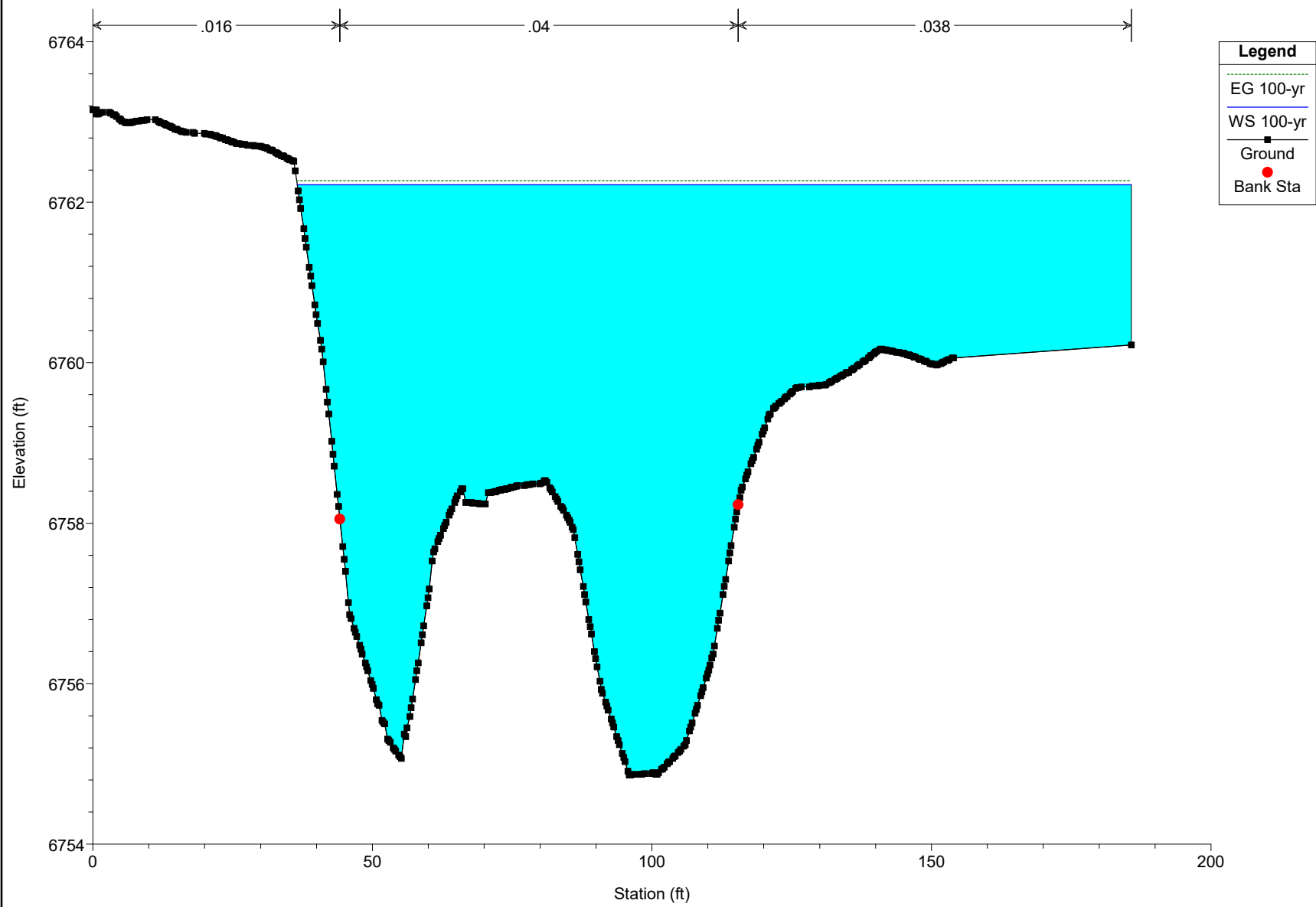
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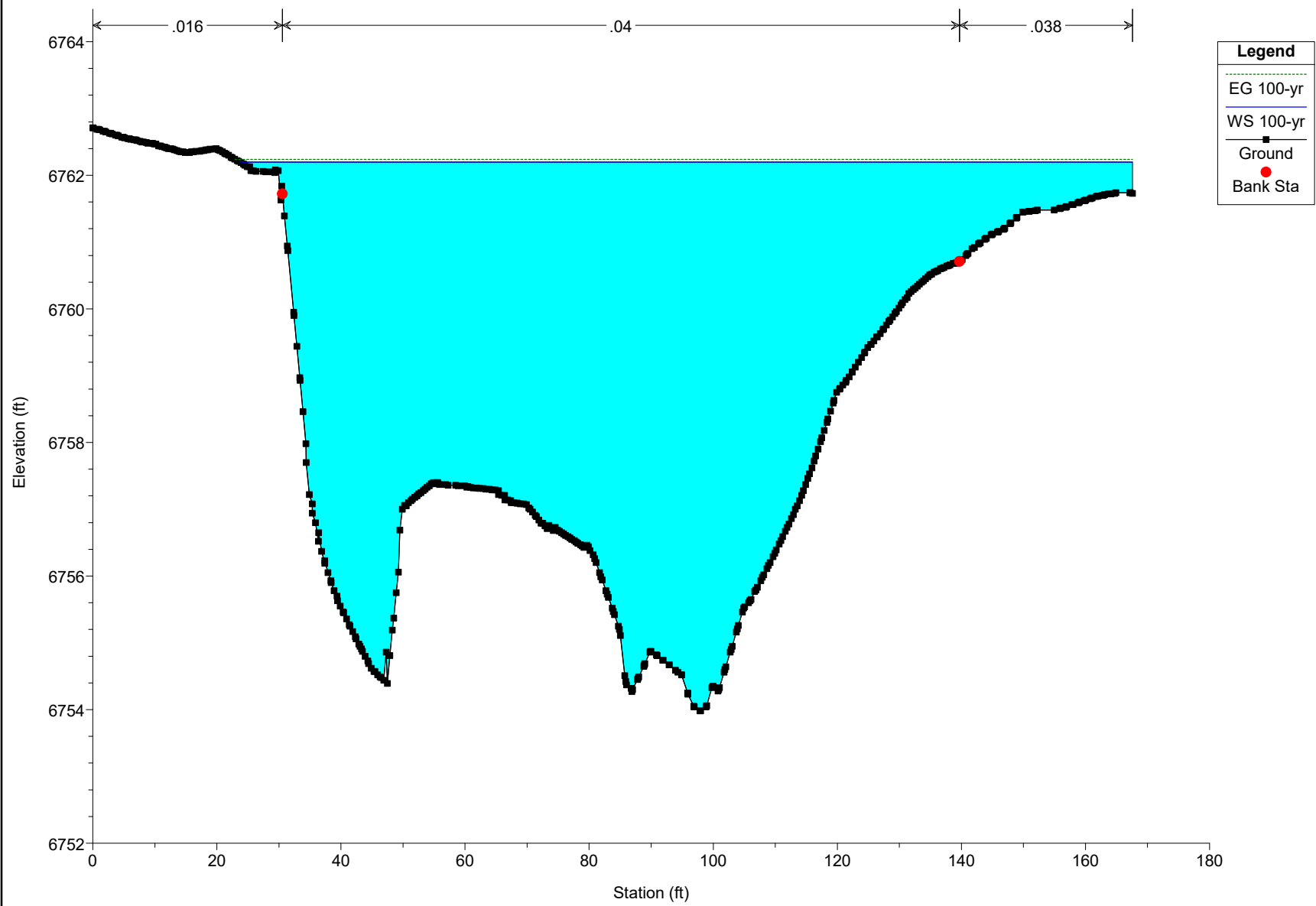
Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 EC 10/2/2022



Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 EC 10/2/2022



Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 EC 10/2/2022



Hampton Inn & Holiday Inn Express Proposed Development
Bridge Cross Section 3

Plan: WC 100 EC 10/2/2022

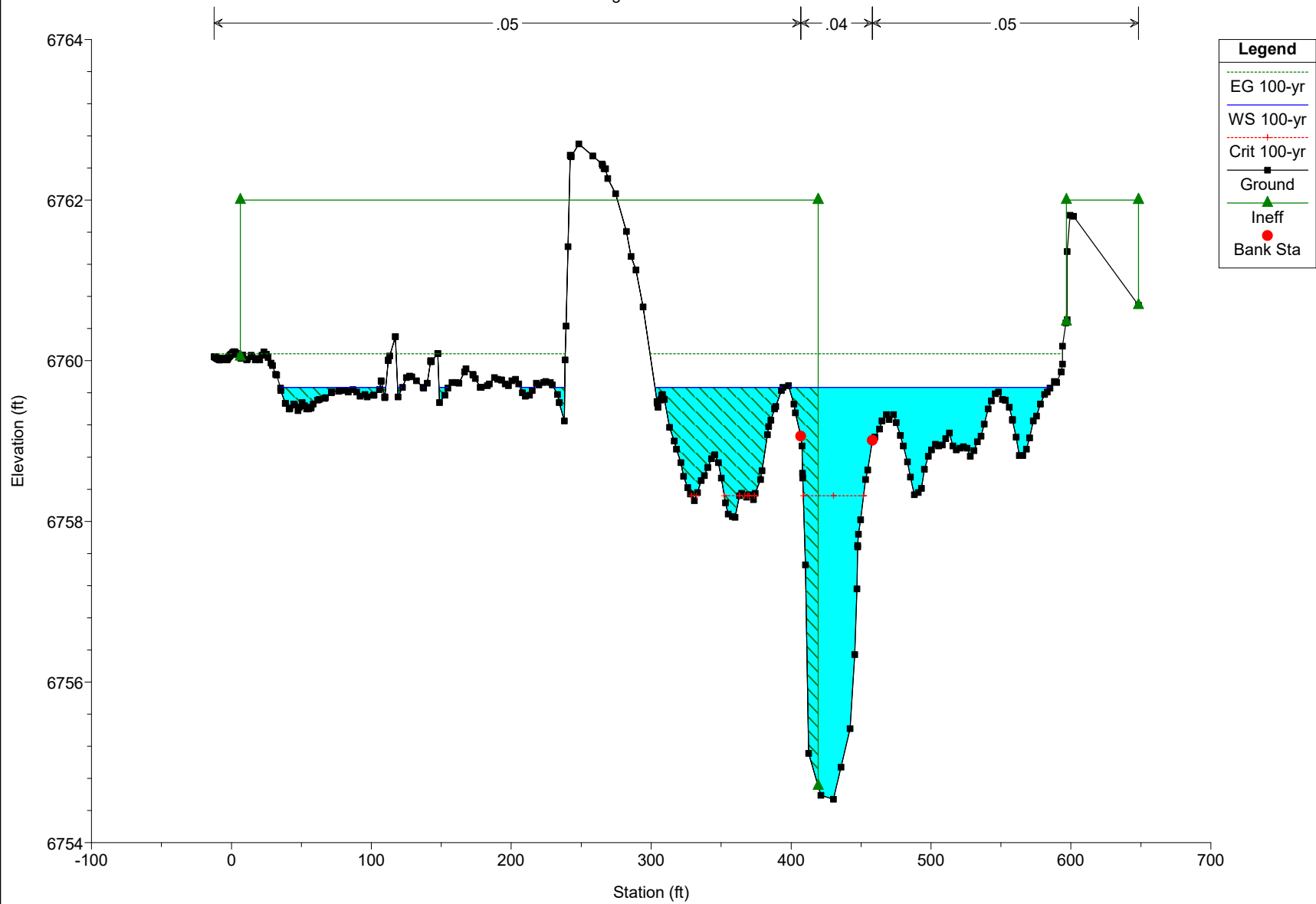
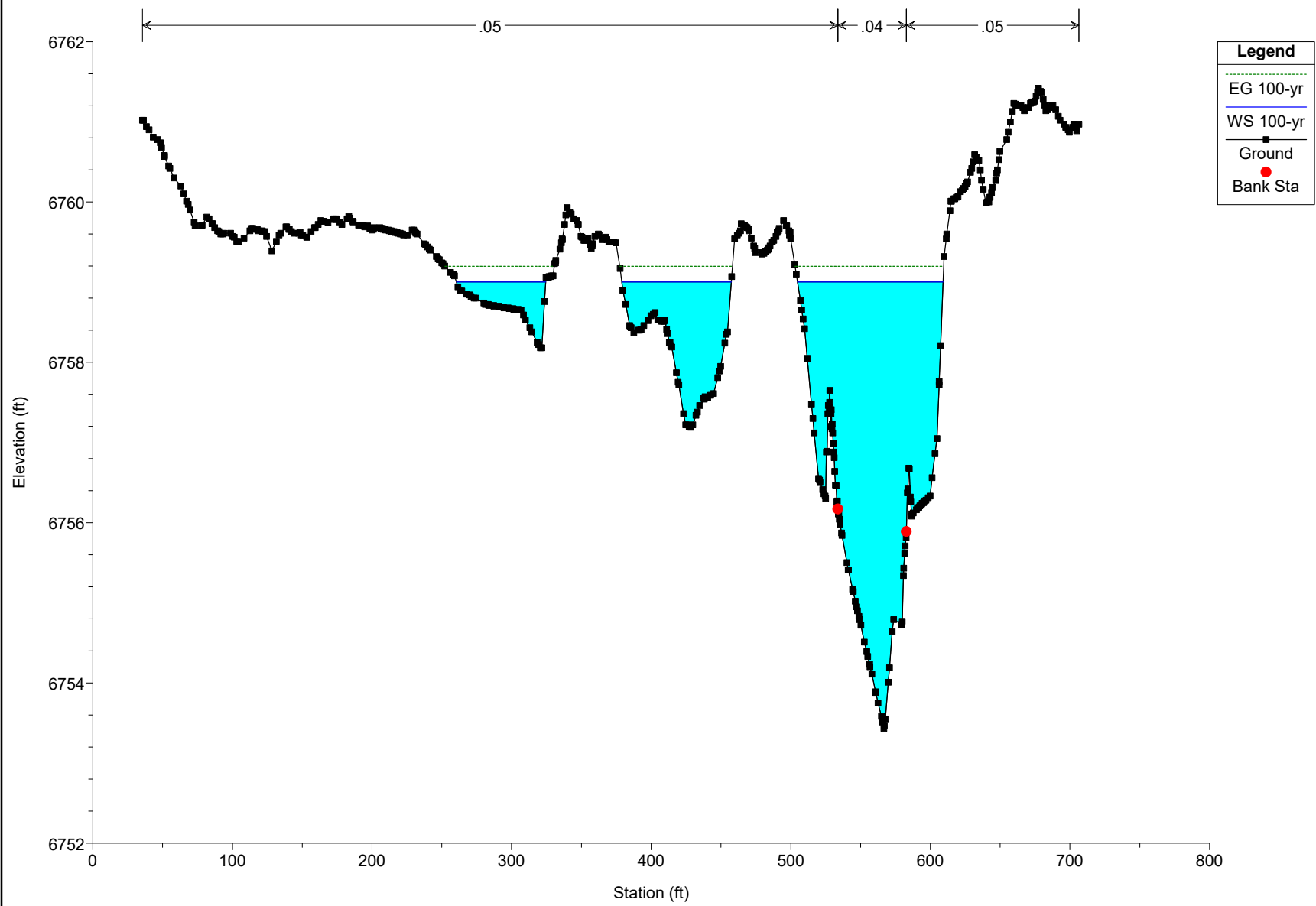


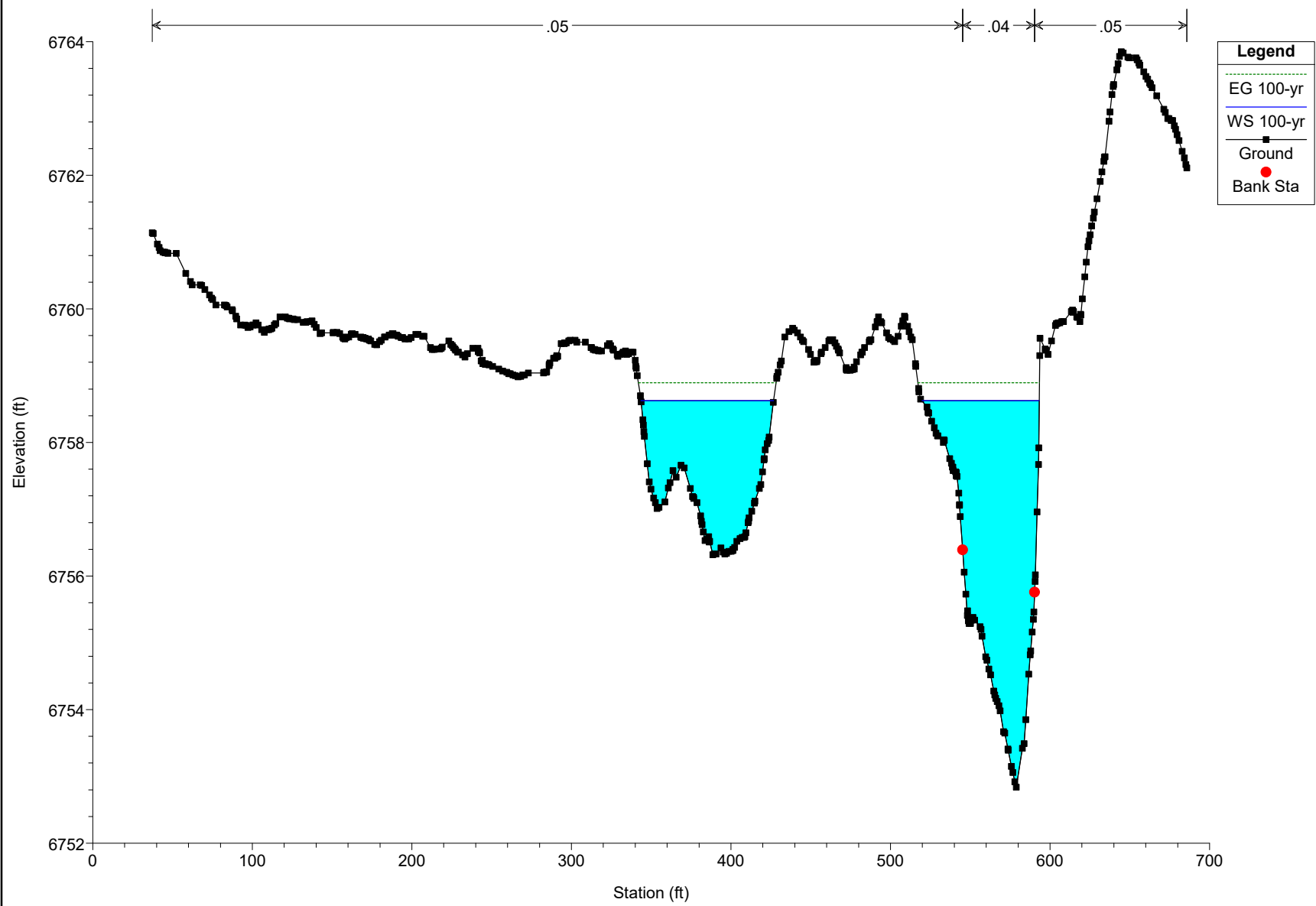
Diagram illustrating the vertical profile of the test section, showing layers and their thicknesses:

- EG 100-yr (top layer, 100 years)
- WS 100-yr (second layer, 100 years)
- Crit 100-yr (third layer, 100 years)
- Ground (fourth layer, marked with a black square)
- Ineff (fifth layer, marked with a green triangle)
- Bank Sta (bottom layer, marked with a red circle)

Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 EC 10/2/2022



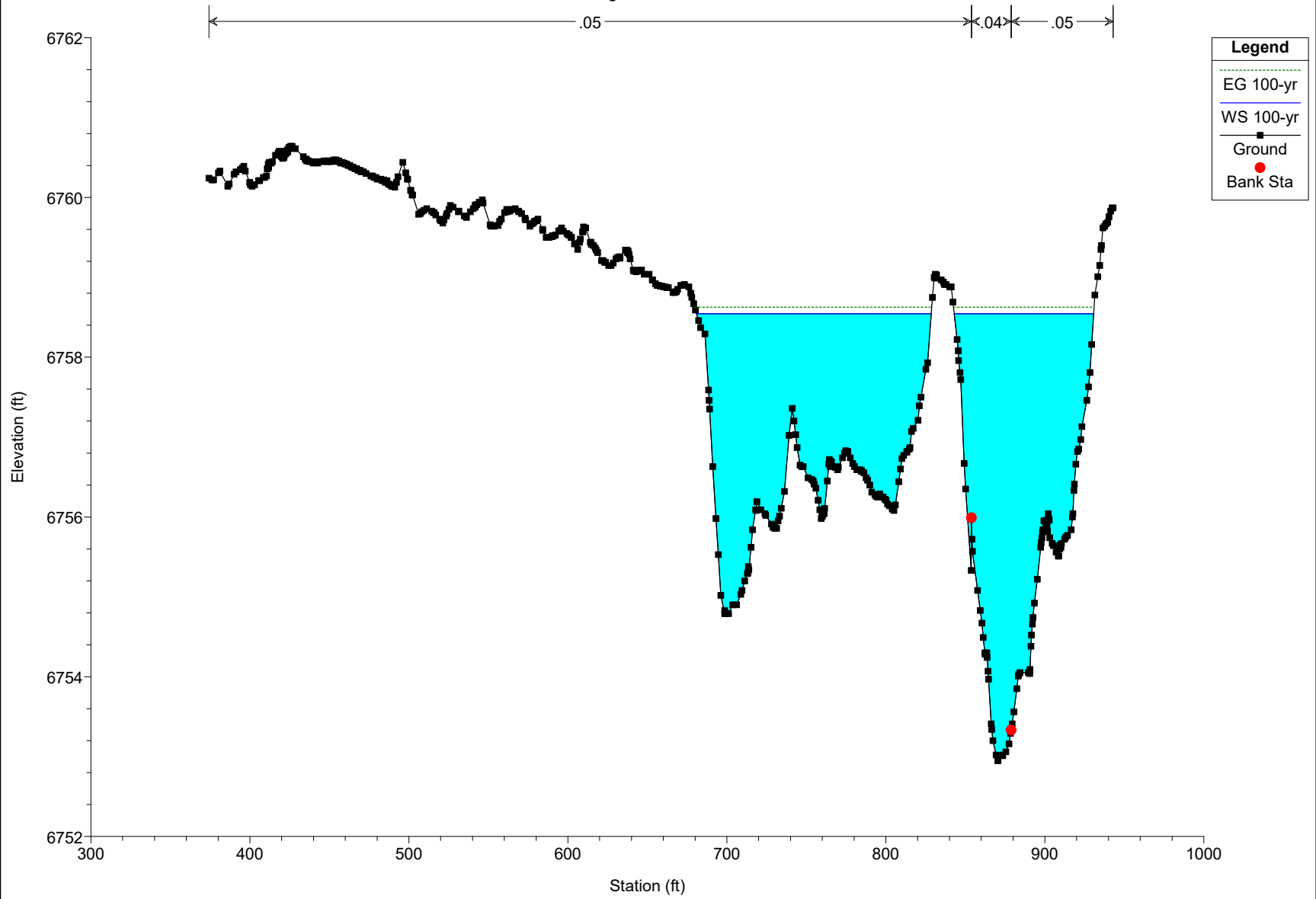
Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 EC 10/2/2022



Hampton Inn & Holiday Inn Express Proposed Development

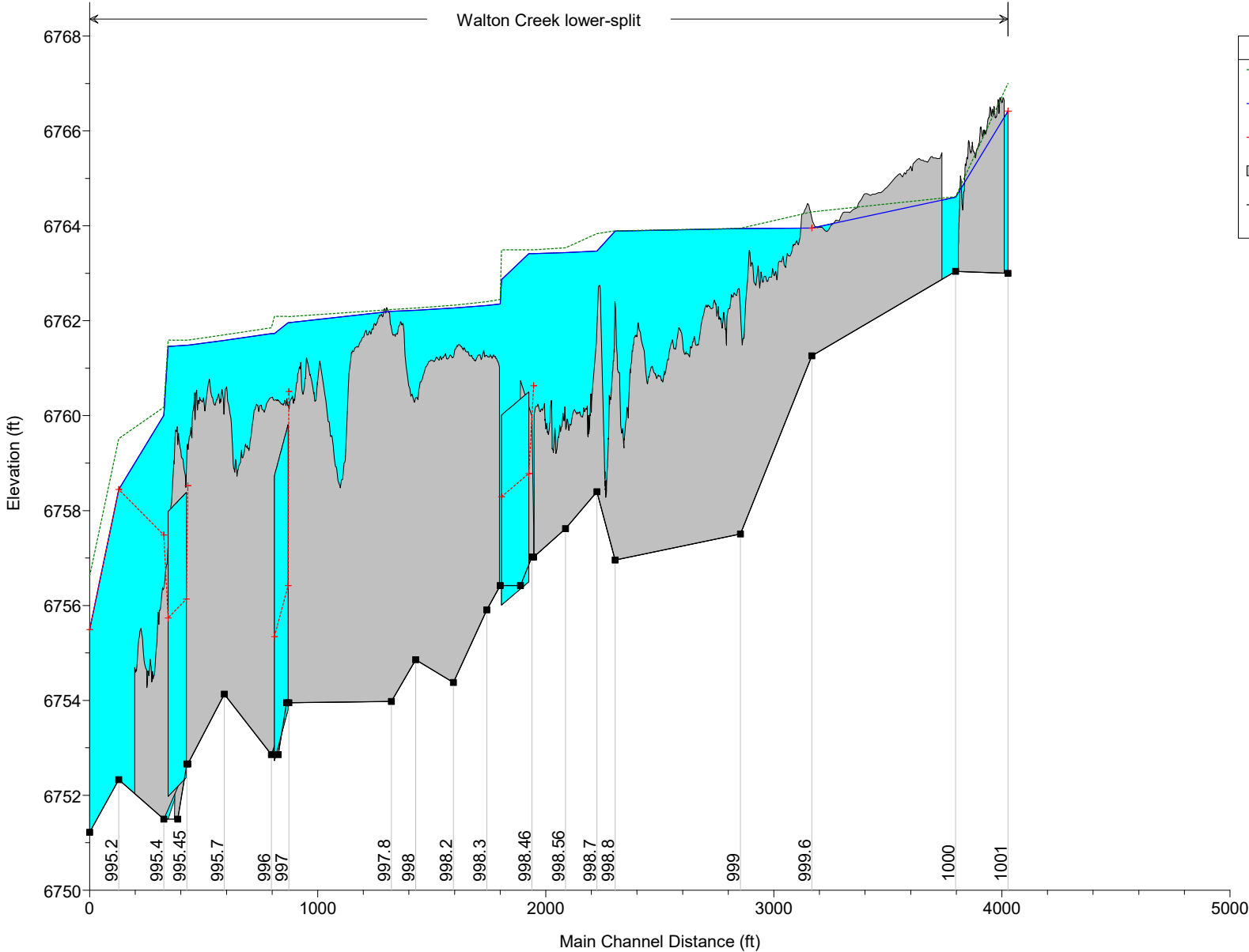
Plan: WC 100 EC 10/2/2022

Bridge Cross Section 1



Hampton Inn & Holiday Inn Express Proposed Development

Plan: WC 100 EC 10/2/2022



Lot 1, Indian Meadows Filing No. 3
Walton Creek Preliminary
HEC-RAS Split Flow Analysis
October 3, 2022



Appendix C

Proposed Project Model Output

HEC-RAS HEC-RAS 6.2 March 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```

X      X  XXXXXX   XXXX      XXXX      XX      XXXX
X      X  X      X      X      X      X      X
X      X  X      X      X      X      X      X
XXXXXXXX XXXX      X      XXX XXXX XXXXXXX XXXX
X      X  X      X      X      X      X      X
X      X  X      X      X      X      X      X
X      X  XXXXXX   XXXX      X      X      X      XXXXX

```

PROJECT DATA

Project Title: Hampton Inn & Holiday Inn Express Proposed Development
Project File : WaltonCreek-PP Worked.prj
Run Date and Time: 2/9/2023 2:32:42 PM

Project in English units

Project Description:

Project Name: Hampton Inn & Holiday Inn Express Proposed Development
Project

Owner: Gray Stone, LLC

State: Colorado

County: Routt County

Stream Name:

Walton Creek

Analysis by: Wohnrade Civil Engineers, Inc. (WCE)

Date of

Analysis: 2/9/2023

HEC-RAS Version 5.0.7

Vertical Datum used: NGVD 29 which
is 4.12' lower than the NAVD88 datum

Horizontal Projection used: NAD 1983

(2011) State Plane Colorado North FIPS 0501 (US Feet)

Analysis Description:

This enhanced model was developed using aerial GIS LiDAR and supplemental ground survey and is the best available data for the proposed land development project. It includes the 100-year recurrence interval only.

Please refer to

the letter report entitled, Final Summary of Findings, Hampton Inn & Holiday Inn Express, Walton Creek HEC-RAS Split Flow Analysis for additional information related to this analysis.

The Effective HEC-RAS model has been truncated at the downstream end for this analysis. The model begins at the downstream side of the Highway 40 (SECNO 1455) and ends at the upper limit of the study reach. Cross-sections within the study reach include Section 1455 through Section 13645.

This model includes both Existing Conditions and Proposed Project models. The Proposed Project model takes into account the Hampton Inn & Holiday Inn Express Proposed Development.

CRS

Info=<SpatialReference> <CoordinateSystem Code="2231" Unit="US_survey_Foot"
AcadCode="CO83-NF" /></SpatialReference>

PLAN DATA

Plan Title: WC 100 PP

Plan File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.p03

Geometry Title: WC 100 PP
Geometry File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.g03

Flow Title : WC 100 PP
Flow File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.f05

Plan Description:

This plan is the Proposed Project model for the 100-year event and includes the proposed site grading for the Hampton Inn and Holiday Inn Express. The plan does not include new culverts at Stone Lane and Ingles Lane. The model extends from the downstream side of the bridge at Highway 40 (Cross Section 1455, Walton Creek Lower Reach) to just upstream of County Road 24 (Cross Section 13645, Main Upper Reach).

The plan includes:

Geometry:

WaltonCreek-PP.g03

Steady Flow: WaltonCreek-PP.f05

Plan Summary Information:

Number of:	Cross Sections =	73	Multiple Openings =	0
	Culverts =	3	Inline Structures =	0
	Bridges =	6	Lateral Structures =	3

Computational Information

Water surface calculation tolerance	=	0.01
Critical depth calculation tolerance	=	0.01
Maximum number of iterations	=	40
Maximum difference tolerance	=	0.3
Flow tolerance factor	=	0.001

Computation Options

Critical depth computed only where necessary	
Conveyance Calculation Method:	At breaks in n values only
Friction Slope Method:	Average Conveyance
Computational Flow Regime:	Subcritical Flow

Encroachment Data

Equal Conveyance	=	True
Left Offset	=	0
Right Offset	=	0

FLOW DATA

Flow Title: WC 100 PP
Flow File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.f05

Flow Data (cfs)

River	Reach	RS	100-yr
Walton Creek	lower	1578	1984
Walton Creek	lower-DE	11692	1883
Walton Creek	lower-main split	5893	1523
Walton Creek	lower-main split	3035	1624
Walton Creek	lower-split	1001	360
Walton Creek	main split	12570.	1235.87
Walton Creek	main upper	13645	1883
Walton Creek	split	12570	647.13

Boundary Conditions

River	Reach	Profile	Upstream
Downstream			
Walton Creek	lower	100-yr	Known WS =
6755.04			

Observed Water Surface Marks

River	Reach	RS	100-yr
Walton Creek	4	13145.60	6819.62
Elk River	7	16700	6586.15
Elk River	7	16534	6597.15
Yampa River	2c	1000651.	6703.45

GEOMETRY DATA

Geometry Title: WC 100 PP
 Geometry File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL
 GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.g03

Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
Walton Creek	lower-split	WC-INM-US-SPLIT	HWY40-Split-Comb
Walton Creek	lower-DE	splitcomb	WC-INM-US-SPLIT
Walton Creek	lower-main split	WC-INM-US-SPLIT	HWY40-Split-Comb
Walton Creek	lower	HWY40-Split-Comb	
Walton Creek	main upper		waltonsplit
Walton Creek	split	waltonsplit	splitcomb
Walton Creek	main split	waltonsplit	splitcomb

JUNCTION INFORMATION

Name: splitcomb
 Description:
 Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
Walton Creek	main split	to Walton Creek	lower-DE	418.24	0
Walton Creek	split	to Walton Creek	lower-DE	413.63	0

Name: waltonsplit
 Description:
 Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
Walton Creek	main upper	to Walton Creek	main split	575.54	0
Walton Creek	main upper	to Walton Creek	split	670	0

Name: WC-INM-US-SPLIT
 Description:
 Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
Walton Creek	lower-DE	to Walton Creek	lower-main split	489.76	0
Walton Creek	lower-DE	to Walton Creek	lower-split	201.04	0

Name: HWY40-Split-Comb
 Description:
 Energy computation Method

Length across Junction	Tributary

River	Reach	River	Reach	Length	Angle
Walton Creek	lower-main split	to Walton Creek	lower	0	0
Walton Creek	lower-split	to Walton Creek	lower	0	0

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 1001

INPUT

Description:

Station	Elevation	Data	num=	498							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6769.59	1.11	6769.57	3.22	6769.56	4.22	6769.5	5.47	6769.44		
7.54	6769.4	9.83	6769.34	12.71	6769.22	13.23	6769.19	13.75	6769.19		
16.23	6769.15	18.55	6769.09	20.23	6769.02	20.49	6769	22.23	6768.93		
23.4	6768.87	25.34	6768.79	25.87	6768.77	26.31	6768.76	28.23	6768.68		
29.26	6768.62	33.24	6768.28	34.06	6767.96	36.5	6767.17	37.47	6766.85		
38.24	6766.6	38.9	6766.43	40.64	6766.05	41.24	6765.91	43.24	6765.47		
45.24	6764.91	45.81	6764.76	47.25	6764.35	47.63	6764.27	48.25	6764.09		
49.94	6764.14	53.25	6764.22	53.44	6764.26	54.08	6764.28	54.25	6764.31		
56.35	6764.44	58.28	6764.57	60.22	6764.81	63.13	6765.18	63.25	6765.18		
67.01	6764.67	67.52	6764.63	67.98	6764.54	68.26	6764.53	73.26	6764.11		
74.26	6764.08	76.7	6763.98	77.67	6763.95	79.26	6763.95	79.6	6763.96		
82.51	6763.97	83.27	6763.99	86.39	6763.86	87.17	6763.82	88.32	6763.83		
89.24	6763.78	91.23	6763.82	93.17	6763.85	98.55	6763.85	101.27	6763.93		
101.65	6763.93	103.28	6763.97	103.72	6764	105.77	6764.09	106.82	6764.15		
110.28	6764.37	111.58	6764.44	111.99	6764.49	113.52	6764.61	116.28	6764.9		
118.2	6765.03	120.85	6765.2	124.18	6765.4	125.29	6765.48	128.29	6765.67		
133.87	6765.67	135.78	6765.65	140.65	6765.57	141.62	6765.59	143.3	6765.64		
144.05	6765.64	145.5	6765.66	148.19	6765.58	149.22	6765.57	152.32	6765.57		
153.36	6765.56	155.43	6765.51	158.3	6765.42	159.56	6765.41	160.6	6765.39		
161.31	6765.39	163.31	6765.36	164.31	6765.37	166.82	6765.37	167.31	6765.38		
169.31	6765.38	169.9	6765.36	170.94	6765.35	173.31	6765.3	174.57	6765.3		
178.44	6765.38	179.21	6765.39	181.28	6765.45	183.35	6765.48	184.26	6765.52		
188.52	6765.52	189.1	6765.54	191.04	6765.54	191.32	6765.55	193.69	6765.55		
197.33	6765.48	199.33	6765.47	202.67	6765.43	203.64	6765.43	204.33	6765.45		
208.17	6765.6	209.2	6765.61	211.39	6765.61	213.33	6765.62	215.41	6765.57		
216.24	6765.54	217.48	6765.52	218.17	6765.49	220.11	6765.59	221.08	6765.63		
222.34	6765.7	222.65	6765.69	223.02	6765.73	223.68	6765.72	225.75	6765.6		
226.9	6765.52	228.34	6765.44	228.83	6765.43	231.74	6765.43	232.99	6765.41		
235.62	6765.42	236.09	6765.43	237.55	6765.43	238.16	6765.45	241.26	6765.41		
241.35	6765.4	243.37	6765.38	245.31	6765.33	245.4	6765.32	247.25	6765.28		
248.5	6765.28	249.18	6765.31	250.57	6765.35	253.67	6765.47	254.71	6765.48		
258.36	6765.55	259.88	6765.5	261.94	6765.42	262.75	6765.4	265.05	6765.3		
266.63	6765.22	268.12	6765.26	268.15	6765.26	268.56	6765.25	269.18	6765.19		
269.53	6765.18	270.22	6765.1	271.36	6765.12	273.37	6765.14	276.42	6764.13		
278.49	6763.66	281.16	6763.32	283.37	6762.87	285.37	6762.7	285.73	6762.69		
286.01	6762.64	288.37	6762.57	290.85	6762.61	290.9	6762.55	291.38	6762.55		
293.38	6762.35	294	6762.33	295.04	6762.32	295.7	6762.3	298.14	6762.37		
298.6	6762.37	302.4	6762.27	303.41	6762.25	304.68	6762.4	305.43	6762.5		
305.56	6762.49	306.43	6762.62	307.33	6762.61	307.45	6762.63	311.49	6762.67		
311.76	6762.71	312.31	6762.68	313.49	6762.84	314.41	6762.89	317.55	6763.47		
317.62	6763.48	318.56	6763.65	320.54	6763.77	322.37	6763.83	323.61	6763.86		
324.07	6763.91	324.14	6763.84	324.62	6763.9	326.42	6763.86	327.93	6763.84		
328.66	6763.82	329.67	6763.91	333.71	6764.2	335.83	6764.19	338.76	6764.22		
341.72	6764.5	342.73	6764.53	343.81	6764.58	345.83	6764.92	347.15	6765.16		
347.6	6765.23	348.92	6765.48	349.95	6765.52	350.88	6765.57	352.9	6765.66		
353.34	6765.65	353.48	6765.69	355.83	6765.66	356.5	6765.66	358.96	6765.61		
359.36	6765.57	362.19	6765.25	363.08	6765.16	364.06	6765.16	365.02	6765.23		
368.39	6765.38	369.06	6765.42	371.12	6765.17	373.69	6765.02	374.58	6764.95		
375.12	6764.89	377	6764.72	379	6764.65	380.77	6764.67	382.18	6764.7		
382.54	6764.68	382.88	6764.71	384.06	6764.68	386.97	6764.36	388.24	6764.21		
388.74	6764.22	388.77	6764.15	389.25	6764.15	390.51	6764.19	392.3	6764.26		
394.3	6764.4	394.65	6764.38	394.93	6764.44	395.31	6764.42	395.82	6764.46		
399.35	6764.68	400.53	6764.74	401.12	6764.69	401.37	6764.71	402.88	6764.66		
404.4	6764.62	405.55	6764.87	406.41	6765.07	407.43	6765.29	409.45	6765.56		
412.29	6765.68	413.65	6765.77	417.53	6766.08	417.94	6766.07	418.17	6766.13		
419.35	6766.13	423.25	6766.06	424.05	6766.04	424.13	6766.1	425.9	6766.04		
428.55	6765.97	430.66	6765.94	432.09	6765.91	434.7	6765.87	435.82	6765.8		

440.06	6765.71	441.7	6765.63	444.8	6765.43	445.81	6765.38	447.58	6765.31
448.76	6765.3	451.11	6765.31	451.56	6765.33	455.1	6765.22	456.5	6765.24
459.95	6765.27	462.18	6765.21	463.64	6765.16	464.83	6765.13	467.02	6765.12
468.75	6765.1	471.11	6765.11	475.1	6765.25	479.14	6765.29	480.15	6765.31
482.87	6765.27	485.07	6765.17	486.07	6765.15	488.75	6765.08	490.25	6765.03
494.03	6765.2	494.63	6765.22	495.8	6765.3	495.81	6765.28	496.69	6765.31
499.36	6765.35	504.39	6765.48	505.4	6765.49	506.5	6765.58	509.07	6765.77
510.45	6765.92	513.64	6766.07	515.27	6766.17	517.92	6766.26	519.33	6766.23
520.79	6766.21	522.35	6766.17	524.12	6766.06	525.6	6765.98	526.77	6765.85
527.57	6765.84	530.31	6765.78	531.09	6765.8	531.2	6765.78	533.85	6765.91
535.8	6765.99	536.98	6766.06	539.16	6766.21	540.75	6766.31	544.79	6766.08
545.8	6766.03	547.56	6766.11	548.74	6766.1	550.85	6766.1	552.87	6766.02
554.2	6765.98	555.8	6765.92	559.33	6765.88	561.28	6765.91	562.85	6765.95
563.64	6765.96	565.21	6766	566	6765.99	568.36	6765.89	571.01	6765.77
571.9	6765.79	572.26	6765.78	573.44	6765.8	576.32	6765.83	577.1	6765.87
577.93	6765.88	580.75	6765.95	582.15	6765.93	586.06	6765.82	588.71	6765.82
591.36	6765.77	593.13	6765.83	593.44	6765.85	596.29	6765.91	596.97	6765.94
600.49	6766.12	601.1	6766.13	603.75	6766.28	604.64	6766.32	606.38	6766.42
609.06	6766.51	609.95	6766.53	611.72	6766.59	612.26	6766.62	616.49	6766.69
619.52	6766.42	620.56	6766.34	621.67	6766.24	622.55	6766.19	624.02	6766.09
624.99	6766.05	626.59	6766	629.9	6766.17	630.3	6766.13	630.63	6766.15
631.64	6766.12	632.95	6766.11	633.84	6766.09	635.61	6766.07	636.69	6766.07
638.71	6766.21	639.15	6766.23	641.66	6766.4	642.21	6766.38	645.19	6766.18
645.34	6766.18	646.79	6766.08	647.11	6766.1	647.55	6766.06	649.35	6766.15
650.65	6766.2	651.84	6766.26	653.43	6766.31	656.96	6766.4	659.31	6766.51
659.5	6766.45	659.92	6766.48	661.94	6766.39	665.19	6766.66	665.69	6766.61
666.63	6766.73	667.11	6766.73	667.97	6766.85	669.15	6766.87	669.94	6766.86
670.39	6766.89	671.36	6766.88	671.97	6766.9	672.77	6766.9	673.3	6766.92
674.19	6766.91	674.63	6766.93	676.71	6766.83	677.3	6766.79	681.25	6766.59
682.63	6766.56	685.53	6766.56	687.97	6766.67	689.07	6766.69	690.63	6766.68
692.61	6766.71	694.63	6766.75	697.3	6766.63	697.88	6766.61	699.97	6766.46
701.11	6766.37	702.63	6766.62	703.24	6766.24	706.95	6766	707.97	6765.92
709.62	6765.92	711.48	6765.9	712.99	6765.9	714.51	6765.87	716.02	6765.81
717.53	6765.74	719.97	6765.64	721.3	6765.6	723.58	6765.61	725.09	6765.63
728.11	6765.65	735.67	6766.1	737.18	6766.09	740.21	6766.09	741.5	6766.08
742.91	6766.05	745.3	6765.98	747.76	6765.92	749.51	6765.8	751.42	6765.68
754.19	6765.52	754.65	6765.49	756.75	6765.54	759.91	6765.6	761.49	6765.31
763.45	6764.98	764.08	6764.82	765.55	6764.47	765.95	6764.43	767.01	6764.31
769.11	6764.09	775.17	6763.49	775.81	6763.49	777.6	6763.46	777.9	6763.32
778.31	6763.01	778.74	6763.03	779.01	6763	780.43	6763.32	781.14	6763.41
783.97	6764.12	784.89	6764.35	787.53	6765	788.85	6765.31	790.22	6765.84
790.95	6766.12	794.32	6767.4	794.58	6767.47	794.86	6767.6	795.69	6767.75
796.16	6767.69	799.6	6767.31	799.74	6767.31				

Manning's n Values		num= 7							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	25.87	.025	37.47	.06	268.12	.04	317.62	.06
759.91	.04	790.95	.06						

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
759.91	790.95	224.95	230.26	224.95		.1	.3	
Ineffective Flow num= 1								
Sta L	Sta R	Elev	Permanent					
0	674.63	6767	F					

LATERAL STRUCTURE

RIVER: Walton Creek
 REACH: lower-split RS: 1000.8

INPUT

Description:

Lateral structure position = Right overbank

Distance from Upstream XS =

Deck/Roadway Width = 5

Weir Coefficient = .1

Weir Flow Reference = Water Surface

Weir Embankment Coordinates num = 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6766.65	.35	6766.65	.69	6766.66	1.18	6766.66	1.99	6766.68

2.57	6766.68	3.15	6766.69	4.79	6766.69	5.35	6766.7	6.74	6766.7
7.58	6766.68	8.61	6766.66	8.9	6766.65	9.65	6766.64	9.72	6766.63
9.99	6766.63	10.92	6766.61	11.71	6766.61	12.18	6766.6	14	6766.6
14.64	6766.59	14.81	6766.6	15.1	6766.6	15.47	6766.61	15.84	6766.61
16.29	6766.62	16.49	6766.63	16.88	6766.63	17.11	6766.64	17.91	6766.64
17.93	6766.65	18.75	6766.65	18.94	6766.66	20.39	6766.66	20.66	6766.67
21.21	6766.67	22	6766.68	22.85	6766.67	23.45	6766.67	23.67	6766.68
24.11	6766.68	24.5	6766.69	25.14	6766.69	25.32	6766.7	26.23	6766.7
26.96	6766.69	27.2	6766.69	27.62	6766.67	27.78	6766.64	28.24	6766.63
28.6	6766.61	29.01	6766.58	29.27	6766.57	30	6766.52	30.24	6766.5
31.06	6766.45	31.8	6766.4	31.88	6766.4	32.37	6766.37	33.19	6766.42
33.4	6766.44	33.53	6766.44	34.35	6766.51	35.17	6766.54	35.97	6766.59
36.5	6766.61	36.81	6766.63	37.63	6766.66	38.01	6766.64	38.45	6766.63
39.6	6766.59	40.63	6766.55	40.91	6766.55	41.54	6766.52	42.01	6766.52
42.7	6766.51	43.38	6766.48	43.73	6766.47	44.33	6766.44	44.76	6766.43
46.01	6766.38	47.11	6766.33	47.48	6766.31	47.86	6766.3	50.01	6766.3
50.76	6766.29	51.59	6766.29	51.99	6766.28	55.09	6766.28	55.46	6766.29
55.69	6766.28	56.51	6766.3	57.15	6766.32	57.33	6766.33	58.02	6766.35
58.25	6766.36	58.97	6766.38	59.22	6766.38	59.64	6766.4	59.79	6766.4
61.44	6766.44	62.26	6766.47	62.42	6766.47	63.35	6766.5	63.81	6766.48
63.9	6766.52	64.38	6766.5	65.21	6766.45	65.54	6766.44	66.02	6766.41
66.6	6766.39	67.18	6766.38	68.52	6766.33	69.38	6766.36	69.65	6766.36
70.02	6766.37	70.77	6766.4	71.61	6766.42	72.65	6766.44	72.93	6766.45
73.56	6766.46	74.03	6766.45	74.57	6766.45	74.71	6766.44	74.95	6766.44
75.39	6766.43	75.74	6766.43	76.21	6766.42	76.34	6766.41	77.73	6766.37
78.68	6766.34	78.84	6766.33	79.13	6766.33	79.5	6766.32	79.88	6766.32
80.32	6766.31	80.52	6766.33	80.91	6766.33	81.91	6766.37	82.03	6766.37
82.97	6766.41	83.6	6766.43	84.01	6766.45	84.42	6766.44	84.69	6766.46
85.24	6766.46	86.03	6766.48	86.88	6766.49	87.48	6766.49	87.71	6766.5
88.87	6766.5	89.17	6766.51	90.26	6766.46	90.99	6766.42	92.27	6766.36
92.63	6766.35	93.3	6766.32	93.45	6766.32	94.27	6766.29	96.74	6766.29
97.22	6766.28	97.56	6766.28	98.04	6766.27	98.61	6766.27	99.2	6766.26
100.84	6766.26	101.56	6766.25	101.66	6766.24	102.04	6766.24	102.79	6766.22
103.3	6766.22	103.63	6766.21	104.66	6766.19	105.57	6766.16	105.77	6766.16
106.59	6766.13	106.97	6766.11	107.41	6766.1	107.76	6766.08	108.23	6766.07
108.36	6766.06	108.79	6766.05	109.75	6766.01	110.04	6766.01	110.69	6766
111.14	6766	111.51	6765.99	112.53	6765.99	112.66	6765.98	113.09	6765.98
113.13	6765.97	114.52	6765.97	115.21	6765.96	116	6765.96	116.62	6765.93
117.2	6765.96	117.48	6765.97	118.96	6765.97	119.46	6765.98	120.44	6765.98
120.87	6765.99	121.27	6765.99	121.58	6766	122.29	6766	122.62	6766.01
122.99	6766.01	123.4	6766.02	123.7	6766.01	123.98	6766.01	124.88	6765.99
125.12	6765.98	125.34	6765.98	125.83	6765.96	126.69	6765.94	127.24	6765.93
127.84	6765.95	128.05	6765.95	128.66	6765.97	129.41	6765.98	130.8	6766.02
131.49	6765.98	132.12	6765.96	132.9	6765.92	133.48	6765.9	133.76	6765.88
134.32	6765.86	134.83	6765.87	135.24	6765.87	136.19	6765.89	136.44	6765.89
136.72	6765.9	137.15	6765.9	137.55	6765.91	138.2	6765.91	139.68	6765.95
139.98	6765.95	140.26	6765.96	141.16	6765.98	141.62	6765.99	142.64	6766.01
142.97	6766.01	144.12	6766.03	144.94	6766.04	145.6	6766.08	146.35	6766.07
146.68	6766.07	147.07	6766.06	147.28	6766.07	148.16	6766.07	148.86	6766.08
149.31	6766.08	149.75	6766.07	150.06	6766.07	151.07	6766.02	151.54	6765.99
151.62	6765.99	152.08	6765.96	152.78	6765.92	153.09	6765.91	153.33	6765.89
154.22	6765.86	155.09	6765.82	155.22	6765.81	156.24	6765.77	156.91	6765.75
157.12	6765.74	157.4	6765.74	157.8	6765.71	158.13	6765.72	159.71	6765.72
160.14	6765.73	160.48	6765.72	160.86	6765.72	161.15	6765.71	161.38	6765.71
162.16	6765.7	162.27	6765.69	164.06	6765.67	164.32	6765.67	164.96	6765.66
165.48	6765.66	166.19	6765.64	166.63	6765.64	166.74	6765.63	171.25	6765.63
172.11	6765.62	172.24	6765.61	173.01	6765.6	173.25	6765.6	173.56	6765.59
173.9	6765.59	174.26	6765.58	174.79	6765.58	175.26	6765.57	175.69	6765.57
175.87	6765.55	176.27	6765.55	177.03	6765.52	177.28	6765.52	177.48	6765.51
178.18	6765.49	178.37	6765.48	179.33	6765.45	180.16	6765.43	180.49	6765.43
181.06	6765.44	181.64	6765.46	181.95	6765.46	182.32	6765.47	183.74	6765.5
184.34	6765.51	184.63	6765.51	185.11	6765.52	185.34	6765.53	187.42	6765.53
188.21	6765.54	189.1	6765.54	189.38	6765.55	190.38	6765.55	190.88	6765.56
191.79	6765.56	192.04	6765.57	193.58	6765.57	194.35	6765.58	195.5	6765.58
196.26	6765.6	196.66	6765.6	197.44	6765.62	197.81	6765.62	198.05	6765.65
198.45	6765.66	198.96	6765.68	199.84	6765.73	200.12	6765.74	200.46	6765.76
201.27	6765.73	201.63	6765.72	202.43	6765.69	202.52	6765.69	203.42	6765.66
203.58	6765.66	204.31	6765.62	204.5	6765.62	205.2	6765.59	205.89	6765.57
206.51	6765.57	206.99	6765.56	207.52	6765.56	207.89	6765.55	208.53	6765.55
208.78	6765.54	209.68	6765.54	210.51	6765.53	210.78	6765.53	211.47	6765.54
211.55	6765.55	212.36	6765.56	212.82	6765.57	213.25	6765.57	213.57	6765.58

213.98	6765.58	214.15	6765.59	214.58	6765.59	215.59	6765.61	216.29	6765.63
217.44	6765.67	217.73	6765.67	218.59	6765.7	218.71	6765.7	219.52	6765.72
220.41	6765.75	220.63	6765.76	220.9	6765.76	221.3	6765.77	222.06	6765.77
222.2	6765.78	222.64	6765.78	223.09	6765.79	223.99	6765.79	224.37	6765.8
224.88	6765.8	225.52	6765.76	225.78	6765.76	226.65	6765.68	227.57	6765.61
227.83	6765.58	228.69	6765.51	228.99	6765.5	229.35	6765.46	229.7	6765.44
230.25	6765.43	230.71	6765.41	231.14	6765.42	232.04	6765.42	232.45	6765.43
232.93	6765.43	233.61	6765.44	235.91	6765.44	236.75	6765.41	237.76	6765.38
238.3	6765.37	239.19	6765.33	239.38	6765.33	240.79	6765.27	240.98	6765.28
241.88	6765.29	242.52	6765.31	244.56	6765.31	244.82	6765.3	245.83	6765.3
246.31	6765.26	246.35	6765.25	246.83	6765.21	247.24	6765.17	247.46	6765.13
247.84	6765.1	248.14	6765.06	248.62	6765.01	249.93	6764.85	250.46	6764.79
250.82	6764.74	251.72	6764.73	252.88	6764.73	253.24	6764.72	254.39	6764.72
255.29	6764.7	255.54	6764.71	255.91	6764.7	256.19	6764.66	256.7	6764.64
256.91	6764.61	257.85	6764.55	258.39	6764.52	258.87	6764.48	259.94	6764.41
260.66	6764.35	260.95	6764.33	261.32	6764.34	261.55	6764.34	261.95	6764.35
262.45	6764.37	262.96	6764.38	263.97	6764.41	264.24	6764.41	264.78	6764.43
265.94	6764.46	266.33	6764.48	266.92	6764.53	267.09	6764.54	267.81	6764.6
268.71	6764.66	269.01	6764.69	269.4	6764.74	269.6	6764.73	270.5	6764.86
271.03	6764.94	272.04	6764.97	272.29	6764.97	273.18	6765	274.02	6765.02
274.27	6765.03	275.86	6765.05	276.07	6765.05	276.33	6765.03	276.76	6764.98
277.48	6764.91	277.65	6764.9	278.08	6764.86	278.55	6764.81	278.64	6764.77
279.09	6764.72	279.79	6764.6	280.34	6764.51	280.95	6764.4	281.11	6764.38
282.1	6764.3	283.02	6764.22	283.12	6764.22	283.91	6764.16	284.13	6764.14
284.81	6764.09	285.14	6764.06	286.15	6763.99	286.6	6763.9	286.72	6763.87
287.16	6763.79	287.49	6763.72	287.88	6763.66	288.16	6763.6	288.94	6763.46

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6766.83	Weir Sta US (ft)	155.84
W.S. US. (ft)	6766.28	Weir Sta DS (ft)	288.94
E.G. DS (ft)	6764.74	Min El Weir Flow (ft)	6763.46
W.S. DS (ft)	6764.70	Wr Top Wdth (ft)	130.89
Q US (cfs)	497.03	Weir Max Depth (ft)	2.33
Q Leaving Total (cfs)	-6.79	Weir Avg Depth (ft)	0.54
Q DS (cfs)	503.83	Weir Flow Area (sq ft)	70.47
Perc Q Leaving	-1.37	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	-6.79	Weir Submerg	0.21
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			
Breach SSR (ft)			

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 1000

INPUT

Description:

Station	Elevation	Data	num=	492					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6768.71	1.36	6768.69	2.63	6768.66	4.65	6768.63	5.66	6768.6
7.31	6768.54	9.29	6768.45	10.29	6768.42	13.26	6768.35	13.73	6768.33
14.74	6768.31	16.49	6768.25	19.78	6768.18	20.73	6768.15	21.49	6768.14
22.49	6768.06	24.17	6767.94	25.16	6767.86	26.49	6767.77	27.49	6767.64
29.13	6767.45	30.62	6767.26	31.49	6767.15	33.49	6766.18	34.91	6765.5
35.08	6765.49	35.49	6765.29	36.49	6764.92	37.49	6764.5	37.93	6764.36
38.05	6764.26	39.95	6763.66	41.49	6763.16	44	6763.56	46.49	6763.94
46.98	6763.96	48.49	6764.05	49.03	6764.07	50.04	6764.13	55.08	6764.48
56.49	6764.55	59.11	6764.47	59.49	6764.45	59.87	6764.46	60.12	6764.43
61.49	6764.47	64.16	6764.39	64.49	6764.39	64.83	6764.35	65.16	6764.37
66.49	6764.23	67.49	6764.18	69.49	6764.1	70.21	6764.06	71.77	6763.95
73.23	6763.79	73.49	6763.77	74.74	6763.63	75.73	6763.53	76.49	6763.44
78.28	6762.71	79.49	6762.2	80.69	6761.71	81.49	6761.37	82.68	6761.32
83.32	6761.25	83.67	6761.23	86.34	6760.98	86.64	6760.97	89.37	6761
91.6	6761	94.41	6760.94	95.57	6760.92	97.55	6760.96	98.54	6760.99
100.46	6761.03	101.47	6761.04	103.5	6761.02	105.48	6760.99	106.5	6760.99
110.5	6761.58	111.43	6761.77	114.41	6762.31	115.4	6762.5	116.5	6762.66
120.64	6762.37	121.5	6762.32	122.65	6762.38	125.68	6762.51	126.31	6762.49
126.69	6762.5	127.3	6762.56	128.7	6762.6	130.27	6762.66	131.5	6762.7
135.5	6763.18	135.76	6763.22	136.22	6763.21	136.5	6763.24	137.22	6763.23
139.2	6763.17	139.5	6763.17	140.81	6763.13	141.18	6763.17	146.5	6763.01
148.12	6762.5	149.12	6762.2	151.5	6761.46	152.09	6761.46	154.5	6761.49
155.94	6761.5	156.5	6761.49	158.04	6761.43	158.5	6761.42	159.97	6761.36
160.98	6761.33	161.02	6761.35	161.5	6761.33	162.5	6761.32	164	6761.32
166.02	6761.3	166.5	6761.31	171.06	6761.31	172.91	6761.29	186.8	6761.29
187.2	6761.28	191.76	6761.28	193.25	6761.29	197.29	6761.33	198.7	6761.34
199.69	6761.36	200.31	6761.36	201.32	6761.38	202.33	6761.37	203.66	6761.37
204.35	6761.36	211.59	6761.36	212.42	6761.37	217.54	6761.37	218.47	6761.38
221.5	6761.38	223.51	6761.43	224.48	6761.46	225.53	6761.48	226.46	6761.51
231.42	6761.46	233.6	6761.46	234.4	6761.45	235.61	6761.45	237.5	6761.43
238.5	6761.43	240.66	6761.4	242.67	6761.4	243.32	6761.41	244.5	6761.41
244.69	6761.42	246.5	6761.43	249.27	6761.57	249.5	6761.59	251.75	6761.7
252.25	6761.71	254.5	6761.78	255.22	6761.79	256.5	6761.83	256.79	6761.88
257.2	6761.87	257.5	6761.92	258.5	6761.97	261.5	6762.15	263.5	6762.6
263.85	6762.67	265.5	6763.04	265.77	6763.13	265.87	6763.17	266.13	6763.18
266.5	6763.31	266.88	6763.35	267.12	6763.45	267.5	6763.49	269.5	6763.95
271.5	6764.4	272.08	6764.46	272.5	6764.48	274.06	6764.63	274.5	6764.68
276.5	6764.87	277.04	6764.9	278.5	6764.95	280.5	6765.05	282	6765.1
282.01	6765.05	283.02	6765.06	284.5	6765.08	286.5	6765.11	286.95	6765.09
287.05	6765.11	287.95	6765.07	290.08	6765	291.09	6764.96	291.91	6764.94
292.09	6764.91	292.5	6764.91	293.9	6764.88	294.89	6764.87	295.5	6764.85
296.5	6764.84	296.87	6764.81	297.14	6764.76	300.84	6764.46	301.83	6764.37
302.18	6764.37	304.5	6764.09	306.5	6763.86	310.75	6764.33	311.5	6764.43
312.27	6764.49	313.5	6764.55	313.73	6764.55	316.5	6764.68	317.31	6764.68
318.69	6764.72	319.33	6764.73	320.67	6764.77	322.35	6764.81	324.37	6764.82
324.5	6764.83	325.63	6764.83	326.62	6764.84	327.39	6764.87	329.59	6764.87
330.42	6764.88	331.58	6764.88	332.44	6764.9	336.47	6765.19	337.48	6765.21
341.51	6765.21	342.52	6765.22	344.54	6765.3	346.45	6765.36	347.44	6765.41
348.44	6765.44	350.42	6765.52	351.6	6765.56	356.37	6765.66	358.35	6765.66
358.5	6765.67	366.73	6765.67	370.51	6765.76	371.51	6765.79	373.51	6765.79
375.51	6765.76	378.83	6765.76	379.18	6765.77	381.86	6765.77	382.51	6765.76
384.51	6765.7	386.51	6765.62	387.91	6765.7	388.1	6765.68	388.92	6765.71
389.51	6765.71	391.51	6765.74	392.95	6765.3	393.06	6765.36	393.51	6765.23
396.51	6764.84	397.99	6764.69	399	6764.6	400	6764.5	400.01	6764.52
400.51	6764.47	401.51	6764.43	402.51	6764.3	402.98	6764.2	403.04	6764.23
404.05	6764.02	406.06	6763.58	406.51	6763.49	407.51	6763.46	407.93	6763.51
408.08	6763.44	410.1	6763.71	411.51	6763.89	412.11	6764.06	414.13	6764.58
416.51	6765.17	418.51	6765.45	419.83	6765.61	421.51	6765.83	422.51	6765.87
422.81	6765.84	423.21	6765.9	423.8	6765.84	426.51	6765.54	428.25	6765.42
429.51	6765.37	429.75	6765.35	433.29	6765.21	433.51	6765.22	435.7	6765.22
436.32	6765.23	438.68	6765.23	439.35	6765.22	440.51	6765.22	441.51	6765.21
443.38	6765.14	444.63	6765.1	446.51	6765.09	447.6	6765.06	448.42	6765.02
449.58	6765.06	450.57	6765.08	451.45	6765.11	452.56	6765.09	454.81	6765.01
455.49	6764.97	455.96	6764.96	457.12	6764.91	459.15	6765.01	460.68	6765.11
462.08	6765.19	462.81	6765.24	465.19	6765.24	465.74	6765.25	468.71	6765.25
470.72	6765.16	472.33	6765.1	474.53	6765.29	476	6765.46	476.74	6765.48
478.74	6765.51	480.18	6765.51	481.85	6765.59	482.49	6765.61	484.05	6765.69

484.84	6765.72	485.95	6765.78	487.1	6765.89	487.71	6765.96	488.78	6766.06
491.72	6766.25	492.79	6766.37	494.31	6766.53	497.48	6766.53	498.81	6766.16
499.43	6766.05	500.94	6765.8	501.11	6765.78	503.25	6765.42	504.83	6765.05
505.56	6764.89	507.86	6764.35	507.98	6765.61	509.19	6765.59	513.22	6764.37
513.69	6763.55	513.96	6763.04	514	6763.12	514.47	6763.29	515.6	6764.44
517.06	6765.3	517.67	6764.95	520.47	6764.15	526.26	6763.31	532.96	6763.23
535.02	6763.45	541.85	6764.17	545.43	6764.85	557.42	6765.4	557.92	6765.39
559.95	6765.42	570.42	6765.6	573.01	6765.62	573.35	6765.68	576.99	6765.68
578	6765.66	580.88	6765.72	581.87	6765.75	586.82	6765.8	591.13	6765.8
591.77	6765.79	592.95	6765.79	593.15	6765.78	596.72	6765.82	598.7	6765.86
601.95	6765.96	603.25	6765.93	603.65	6765.96	603.95	6765.95	604.95	6765.97
606.95	6766.03	608.3	6766.01	608.61	6765.98	609.6	6765.94	611.33	6765.85
611.96	6765.81	612.96	6765.84	613.96	6765.84	616.53	6765.79	618.4	6765.78
619.5	6765.75	621.96	6765.7	623.96	6765.61	626.96	6765.52	627.96	6765.53
628.41	6765.57	628.5	6765.53	631.39	6765.79	631.96	6765.85	632.96	6765.87
633.38	6765.85	633.53	6765.89	634.54	6765.83	635.37	6765.77	636.96	6765.68
637.96	6765.68	639.35	6765.7	641.34	6765.75	642.33	6765.76	643.96	6765.73
644.32	6765.73	645.6	6765.69	645.96	6765.69	647.31	6765.65	648.3	6765.64
648.96	6765.62	649.62	6765.62	651.29	6765.59	651.96	6765.59	652.63	6765.55
653.28	6765.53	653.96	6765.49	655.65	6765.42	657.66	6765.31	659.24	6765.24
661.68	6765.17	662.96	6765.18	663.96	6765.21	664.7	6765.22	665.96	6765.26
666.96	6765.28	668.72	6765.23	671.74	6765.17	673.17	6765.02	675.96	6764.69
676.96	6764.59	678.14	6764.55	678.77	6764.54	681.96	6764.3	682.79	6764.29
683.12	6764.3	683.8	6764.27	686.96	6764.54	687.96	6764.68	688.09	6764.68
688.83	6764.8	689.83	6764.85	690.84	6764.89	691.07	6764.91	692.07	6764.95
693.85	6765.04	696.87	6765.25	697.04	6765.25	698.04	6765.09	698.88	6764.97
700.89	6764.59	701.9	6764.39	704.01	6764.18	705.99	6763.93	706.92	6763.82
707.98	6763.6	708.94	6763.42	708.98	6763.4	710.95	6762.81	711.96	6762.5
712.96	6761.74	713.95	6762.31	714.95	6762.62	715.94	6762.72	716.98	6762.75
718.99	6763.16	719.92	6763.52	720.92	6763.89	722.01	6764.31	724.02	6765.03
724.89	6765.23	726.03	6765.52	726.6	6765.65	727.46	6765.76	730.05	6765.86
732.46	6765.89	734.45	6765.85						

Manning's n Values		num= 6		Sta		n Val		Sta		n Val	
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	20.73	.025	30.62	.04	265.77	.05	507.98	.04		
573.01	.05										

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	507.98	573.01		573.3 630.03	573.3		.1	.3

LATERAL STRUCTURE

RIVER: Walton Creek
 REACH: lower-split RS: 999.7

INPUT

Description:
 Lateral structure position = Right overbank
 Distance from Upstream XS =
 Deck/Roadway Width = 5
 Weir Coefficient = .1
 Weir Flow Reference = Water Surface

Weir Embankment Coordinates		num = 490		Sta		Elev		Sta		Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.54	2.32	6765.42	6.08	6765.42	6.56	6765.43	9.88	6765.43		
11.3	6765.46	12.72	6765.45	16.46	6765.34	18.4	6765.36	20.17	6765.36		
21.24	6765.38	23.53	6765.38	25.81	6765.42	28.34	6765.4	32.85	6765.31		
34.14	6765.16	35.43	6765.26	37.67	6765.18	39.79	6765.17	41.3	6765.09		
42.62	6765.12	45.02	6765.03	47.78	6765.1	49.03	6765.09	53.11	6765.02		
59.44	6764.88	63.39	6764.8	64.51	6764.79	66.82	6764.74	69.52	6764.7		
72.53	6764.7	76.27	6764.67	79.15	6764.67	81.56	6764.64	85.42	6764.68		
87.58	6764.68	89.08	6764.66	92.09	6764.55	94.69	6764.49	97.09	6764.38		
101.12	6764.35	105.1	6764.28	106.33	6764.29	111.56	6764.29	113.11	6764.28		
115.52	6764.19	117.12	6764.11	121.12	6764.12	121.62	6764.1	125.05	6764.03		
126.2	6764.02	129.13	6763.92	131.22	6763.88	133.52	6763.9	137.15	6763.98		
137.7	6763.97	141.15	6763.97	142.18	6763.96	145.02	6763.99	147.56	6764.09		
152.29	6764.31	153.79	6764.34	155.88	6764.44	158.77	6764.47	162.73	6764.38		
165.83	6764.33	168.39	6764.27	173.01	6764.24	175.34	6763.99	177.2	6763.77		
181.2	6763.6	183.7	6763.63	185.21	6763.69	188.93	6763.62	189.21	6763.6		

190.82	6763.61	193.22	6763.58	194.42	6763.6	197.43	6763.45	201.22	6763.36
205.67	6763.37	208.39	6763.42	211.13	6763.2	211.83	6763.12	215.37	6763.17
218.91	6763.36	219.28	6763.33	222.45	6763.24	226.69	6763.26	229.52	6763.22
232.9	6762.88	233.24	6762.86	236.6	6763.04	239.71	6762.95	240.61	6762.96
243.68	6763.1	246.5	6762.92	251.96	6762.92	253.32	6762.91	255.71	6762.83
257.83	6762.83	261.24	6762.94	264.91	6762.93	266.94	6762.81	268.44	6762.81
270.57	6762.93	271.98	6763.03	273.74	6762.84	275.52	6762.69	278.92	6763.15
279.19	6763.16	284.81	6762.74	289.67	6762.82	292.18	6763.17	293.66	6763.23
294.63	6763.23	296.75	6763.15	299.55	6763.45	300.44	6763.49	300.89	6763.43
304.69	6762.82	305.71	6762.8	309.03	6762.41	310.85	6762.09	313.32	6761.63
313.34	6761.71	313.84	6761.63	315.87	6761.63	317.62	6761.49	321.06	6761.97
321.91	6762.22	326.04	6762.68	328.07	6762.68	331.12	6762.65	334.8	6762.53
339.49	6762.55	341.67	6762.59	343.39	6762.59	346.37	6762.5	347.69	6762.5
351.46	6762.55	351.98	6762.53	354.83	6762.35	356.54	6762.26	361.62	6762.25
363.66	6762.19	365.73	6762.1	366.58	6761.95	367.44	6761.64	367.73	6761.48
368.74	6761.52	369.76	6761.84	370.62	6761.81	371.87	6761.85	375.6	6762.14
376.85	6762.18	381.83	6761.84	386.34	6762.05	386.81	6762.02	390.64	6762.08
392.13	6762.03	394.93	6762.3	397.21	6762.17	399.26	6762.09	402.29	6762.36
403.52	6762.35	407.38	6762.44	410.23	6762.36	412.11	6762.27	417.54	6762.25
420.71	6762.27	422.63	6762.31	425	6762.3	427.58	6762.33	430.15	6762.29
432.88	6762.29	433.59	6762.33	437.93	6762.28	443.04	6762.12	445.62	6762.07
448.19	6762	451.09	6761.89	452.11	6761.83	459.36	6761.49	463.29	6761.5
463.66	6761.48	468.38	6761.49	472.25	6761.67	473.11	6761.66	476.47	6761.55
478.55	6761.56	480.84	6761.43	483.94	6761.43	485.13	6761.46	488.71	6761.24
493.72	6761.31	498.02	6761.3	498.87	6761.35	502.31	6761.3	504.03	6761.29
506.35	6761.33	509.05	6761.4	510.91	6761.55	514.13	6761.73	518.64	6761.81
519.5	6761.8	521.29	6761.84	524.3	6761.85	528.09	6761.65	529.38	6761.61
532.38	6761.45	534.46	6761.4	535.48	6761.41	539.55	6761.41	540.97	6761.49
544.63	6761.6	546.13	6761.56	549.93	6761.5	553.86	6761.37	554.72	6761.36
558.15	6761.17	559.9	6761.18	561.91	6761.13	563.95	6761.05	566.74	6760.91
569.86	6760.86	571.1	6760.94	575.13	6760.71	576.43	6760.71	579.63	6760.76
580.22	6760.74	583.56	6760.83	584.78	6760.84	588.22	6760.83	590.8	6760.86
595.47	6760.78	599.74	6760.88	600.25	6760.86	601.96	6760.89	604.72	6760.91
608.84	6761.01	609.67	6761.04	613.99	6761.02	614.85	6760.99	618.29	6760.91
620.75	6760.81	622.58	6760.83	625.89	6760.67	626.88	6760.69	631.05	6760.93
636.08	6761.36	642.44	6761.49	646.2	6761.6	649.03	6761.74	650.45	6761.78
653.28	6761.81	656.11	6761.96	657.45	6761.94	660.45	6761.66	662.96	6761.7
663.9	6761.67	664.96	6761.69	667.96	6761.65	669.67	6761.65	670.99	6761.49
672.46	6761.49	674.53	6761.35	676.37	6761.37	678.07	6761.13	679.97	6761.07
681.73	6760.9	683.08	6760.98	685.15	6760.59	687.48	6760.23	688.69	6759.95
689.78	6760.11	692.23	6760.18	694.98	6759.91	696.48	6759.88	701.85	6759.49
702.15	6759.51	702.86	6759.32	703.19	6759.37	706.4	6759.73	710	6759.63
713.48	6759.79	716.59	6760.7	717.02	6760.85	717.5	6760.91	720.62	6760.91
723.3	6760.96	724.1	6760.99	725.01	6761.28	727.65	6761.49	730	6762.25
731.19	6762.38	732.52	6762.4	734.73	6761.88	736.7	6761.77	738.27	6761.34
740.02	6761.4	741.81	6761.31	743.41	6761.3	745.35	6761.15	747.53	6761.17
748.77	6761.12	750.11	6761.11	752.43	6760.95	755.03	6760.92	755.98	6760.86
756.82	6760.85	759.5	6760.68	763.52	6760.59	769.43	6760.37	770.05	6760.34
773.68	6760.35	776.93	6760.39	777.55	6760.38	780.76	6760.24	783.63	6760.43
785.72	6760.15	790.33	6759.5	791.39	6759.53	792.8	6759.41	794.93	6759.28
797.07	6759.09	798.38	6759.04	800.07	6758.93	801.57	6758.87	803.74	6758.81
806.97	6758.51	807.76	6758.42	809.29	6758.34	809.8	6758.47	810.51	6758.34
811.22	6758.6	811.78	6758.63	812.63	6758.53	812.7	6758.43	813.56	6758.48
813.86	6758.3	814.43	6758.28	815.09	6758.43	816.16	6758.29	817.24	6758.42
818.75	6758.46	819.27	6758.44	820.29	6758.62	821.25	6758.52	822.2	6758.8
822.48	6758.82	823.07	6758.68	831.45	6759.5	832.47	6759.59	841.6	6760.49
845.67	6760.88	859.38	6762.22	860.23	6762.29	862.21	6762.52	864.55	6762.66
866.27	6762.72	868	6762.74	873.19	6762.74	873.82	6762.73	878.37	6762.73
879.63	6762.71	896.42	6761.55	898.25	6761.43	907.59	6760.78	908.59	6760.72
912.67	6760.44	914.64	6760.28	915.46	6760.07	916.51	6760.27	917.01	6760.28
917.1	6760.41	917.57	6760.46	918.62	6760.37	920.17	6760	920.26	6760.04
920.96	6759.95	921.78	6759.74	924.92	6759.62	925.97	6760.01	927.17	6759.66
928.17	6759.55	929.97	6759.62	930.15	6759.76	930.8	6760.06	930.97	6760.2
933.82	6760.13	936.11	6760.15	941.07	6760.08	943.9	6760.17	945.91	6760.04
948.94	6759.97	952.98	6759.98	955.99	6760.01	958.94	6760.08	960.98	6760.06
964.05	6760.05	965.89	6760.07	969.08	6760.03	971.85	6760.07	974.12	6760.07
975.13	6760.09	978.79	6760.13	981.98	6760.1	985.98	6760.03	989.23	6759.9
990.98	6759.81	993.98	6759.8	995.98	6759.82	999.31	6759.69	1000.98	6759.74
1004.35	6759.93	1005.98	6759.93	1009.38	6759.74	1010.98	6759.71	1014.42	6760.1
1015.98	6760.19	1019.46	6759.94	1020.98	6759.89	1023.47	6759.96	1025.98	6760.05
1028.98	6759.92	1030.98	6759.78	1035.58	6759.75	1039.61	6759.66	1040.98	6759.75

1044.64	6759.8	1045.98	6759.68	1049.68	6759.54	1050.98	6759.56	1055.23	6759.49
1057.22	6759.41	1059.76	6759.29	1061.19	6759.28	1064.79	6759.2	1065.98	6759.21
1069.83	6759.68	1070.98	6759.74	1074.98	6759.41	1077.89	6759.29	1080.05	6759.22
1080.91	6759.26	1085.01	6759.31	1085.95	6759.3	1086.96	6759.53	1089.98	6760.26
1090.99	6760.32	1094.94	6760.19	1095.93	6760.12	1098.04	6759.86	1100.26	6759.83
1101.71	6759.72	1102.46	6759.73	1103.19	6759.69	1104.79	6759.66	1106.8	6759.6
1107.64	6759.6	1112.1	6759.67	1112.58	6759.64	1115.51	6759.83	1115.96	6759.84
1118.21	6759.8	1119.34	6759.76	1122.04	6759.72	1124.96	6759.86	1125.45	6759.93
1125.76	6759.9	1126.94	6760.04	1127.21	6760.04	1129.47	6760.26	1135.07	6760.17
1138.81	6760.14	1140.72	6760.11	1143.83	6760.14	1147.48	6760.14	1151.98	6760.09
1154.72	6760.08	1158.37	6760.13	1160.7	6760.18	1165.36	6760.24	1166.27	6760.24
1168.86	6760.2	1176.5	6760.2	1180.37	6760.15	1185.21	6760.05	1187.36	6760.02

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6764.58	Weir Sta US (ft)	122.17
W.S. US. (ft)	6764.54	Weir Sta DS (ft)	1187.36
E.G. DS (ft)	6763.58	Min El Weir Flow (ft)	6758.28
W.S. DS (ft)	6763.50	Wr Top Wdth (ft)	1038.31
Q US (cfs)	503.83	Weir Max Depth (ft)	5.81
Q Leaving Total (cfs)	-482.39	Weir Avg Depth (ft)	2.87
Q DS (cfs)	993.80	Weir Flow Area (sq ft)	2981.06
Perc Q Leaving	-97.25	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	-482.39	Weir Submerg	0.90
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			
Breach SSR (ft)			

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split RS: 999.6

INPUT

Description:

Station	Elevation	Data	num=	487						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	6768.11	.93	6768.11	1.08	6768.1	1.93	6768.1	2.78	6768.09	
3.93	6768.06	7.77	6767.79	8.93	6767.73	9.76	6767.73	10.76	6767.71	
12.1	6767.7	13.75	6767.67	13.93	6767.66	15.93	6767.64	16.11	6767.63	
18.93	6767.6	19.74	6767.57	20.74	6767.52	21.73	6767.48	21.93	6767.48	
22.93	6767.43	23.13	6767.43	24.27	6767.37	27.72	6767.24	28.93	6767.18	
31.15	6766.85	32.15	6766.69	32.93	6766.58	33.93	6766.41	35.16	6765.81	
36.7	6765.04	37.08	6764.87	37.7	6764.55	38.93	6764.03	40.17	6763.6	
40.69	6763.51	40.93	6763.42	42.68	6763.03	44.18	6762.68	45.93	6762.3	
46.93	6762.07	47.19	6762.04	47.67	6761.91	48.93	6761.76	49.93	6761.95	
50.2	6762.01	52.2	6762.39	52.66	6762.49	53.66	6762.65	54.93	6762.83	

55.21	6762.86	57.65	6763.2	58.22	6763.25	58.93	6763.33	62.93	6763.33
64.23	6763.35	65.63	6763.39	65.93	6763.39	66.93	6763.42	68.24	6763.44
68.93	6763.46	71.25	6763.43	72.25	6763.43	72.93	6763.42	73.25	6763.43
75.93	6763.43	76.26	6763.42	77.93	6763.42	80.27	6763.39	82.59	6763.35
83.93	6763.34	84.93	6763.39	85.58	6763.4	85.93	6763.42	86.93	6763.43
87.58	6763.45	88.57	6763.46	89.29	6763.48	90.93	6763.49	91.29	6763.5
92.3	6763.5	92.56	6763.51	93.93	6763.51	95.3	6763.55	95.93	6763.56
97.55	6763.61	98.31	6763.62	102.54	6763.62	102.93	6763.63	103.93	6763.63
105.33	6763.68	105.93	6763.71	107.53	6763.76	107.93	6763.79	108.93	6763.84
110.52	6763.87	113.35	6763.93	113.93	6763.95	114.93	6763.96	115.93	6763.96
116.35	6763.97	117.36	6763.97	117.5	6763.98	118.93	6763.95	119.5	6763.95
120.5	6763.93	121.93	6763.92	122.37	6763.91	123.49	6763.91	123.93	6763.9
124.49	6763.92	124.93	6763.92	127.93	6763.98	128.48	6763.98	130.93	6764.03
131.47	6764.03	133.93	6764.08	134.46	6764.06	135.4	6764.04	135.46	6764.03
136.93	6764	138.93	6763.92	140.45	6763.92	140.93	6763.93	142.45	6763.93
144.42	6763.99	145.93	6764	146.93	6764.02	147.93	6764.03	148.93	6764.03
149.43	6764.04	150.93	6764.04	151.42	6764.05	153.93	6764.05	154.93	6764.03
155.45	6764.03	156.41	6764.01	157.45	6764.01	157.93	6764	158.93	6764
159.93	6763.98	160.46	6763.98	161.4	6763.96	162.4	6763.95	162.47	6763.97
162.93	6763.96	163.93	6763.97	165.47	6764.06	165.93	6764.08	166.93	6764.14
167.39	6764.16	168.93	6764.19	170.48	6764.18	170.93	6764.17	171.93	6764.17
172.37	6764.16	173.49	6764.16	173.93	6764.15	174.93	6764.16	175.37	6764.15
175.93	6764.16	176.36	6764.15	177.36	6764.15	177.5	6764.14	178.5	6764.14
178.93	6764.13	179.93	6764.18	180.35	6764.19	181.35	6764.24	183.52	6764.32
185.52	6764.38	187.34	6764.42	187.53	6764.4	187.93	6764.41	188.53	6764.39
188.93	6764.39	191.33	6764.2	192.33	6764.13	192.54	6764.15	192.93	6764.12
193.93	6764.12	195.32	6763.96	195.93	6763.88	196.93	6763.77	197.31	6763.72
197.55	6763.73	197.93	6763.69	198.93	6763.64	201.3	6763.42	202.3	6763.34
202.56	6763.4	202.93	6763.37	203.93	6763.42	204.93	6763.44	205.93	6763.47
206.29	6763.47	207.05	6763.49	207.29	6763.5	207.57	6763.43	207.93	6763.44
208.93	6763.35	210.58	6763.38	212.28	6763.4	212.59	6763.29	212.93	6763.29
213.93	6763.12	215.27	6762.7	215.59	6762.61	216.93	6762.19	217.27	6762.09
217.6	6762.06	217.93	6761.96	218.93	6761.76	219.6	6761.69	222.8	6761.37
223.93	6761.26	225.62	6761.43	225.93	6761.47	227.24	6761.6	227.62	6761.55
227.93	6761.58	228.93	6761.55	229.63	6761.61	230.93	6761.74	231.23	6761.76
232.23	6761.86	232.63	6761.92	232.93	6761.94	233.93	6762.07	235.22	6762.12
235.93	6762.16	237.22	6762.21	237.65	6762.34	237.93	6762.36	238.16	6762.4
238.65	6762.5	239.65	6762.73	240.21	6762.87	241.21	6763.1	242.21	6763.34
242.66	6763.37	242.93	6763.44	243.93	6763.57	244.93	6763.59	246.2	6763.63
247.19	6763.65	247.67	6763.74	247.93	6763.75	248.93	6763.88	252.18	6764.01
252.68	6764.01	253.18	6764.03	253.93	6764.04	254.93	6763.97	255.69	6763.93
257.17	6763.83	257.69	6763.77	257.93	6763.76	258.93	6763.65	260.7	6763.65
260.93	6763.64	262.16	6763.64	263.71	6763.62	265.71	6763.62	265.93	6763.63
266.71	6763.63	266.93	6763.64	268.93	6763.66	269.14	6763.67	272.14	6763.73
272.73	6763.72	276.13	6763.72	277.12	6763.71	277.74	6763.72	278.93	6763.72
279.12	6763.73	280.12	6763.74	280.75	6763.76	282.11	6763.78	284.11	6763.74
284.76	6763.71	286.1	6763.67	287.1	6763.63	287.77	6763.68	287.93	6763.67
288.93	6763.72	289.77	6763.72	289.93	6763.73	290.93	6763.73	291.09	6763.74
292.09	6763.74	292.78	6763.72	293.78	6763.71	297.08	6763.58	298.79	6763.55
302.06	6763.55	304.06	6763.53	306.81	6763.59	307.05	6763.59	308.82	6763.63
309.93	6763.63	310.04	6763.64	310.93	6763.64	311.04	6763.65	312.04	6763.67
313.83	6763.72	318.03	6763.76	319.84	6763.8	321.02	6763.84	321.85	6763.86
323.85	6763.96	324.01	6763.96	324.85	6764.01	325.01	6764.01	326.01	6764.07
327	6764.12	327.86	6764.15	329	6764.21	331.87	6764.26	331.99	6764.27
332.87	6764.26	334.03	6764.26	334.49	6764.28	335.74	6764.3	337.35	6764.34
338.06	6764.34	339	6764.36	340.24	6764.37	341.48	6764.42	342.72	6764.48
345.24	6764.58	346.44	6764.6	347.36	6764.6	349.51	6764.57	349.75	6764.58
350.94	6764.56	352.64	6764.55	353.69	6764.52	355.38	6764.5	357.07	6764.47
357.6	6764.47	358.76	6764.45	360.09	6764.44	363.83	6764.44	365.05	6764.47
365.96	6764.47	366.29	6764.46	367.39	6764.46	367.53	6764.45	368.41	6764.45
368.77	6764.44	370.25	6764.44	371.25	6764.4	372.49	6764.38	373.73	6764.35
374.55	6764.32	374.97	6764.32	376.69	6764.27	377.35	6764.26	378.69	6764.18
379.04	6764.15	383.66	6763.89	384.11	6763.89	384.9	6763.87	386.14	6763.86
387.08	6763.84	387.49	6763.84	388.14	6763.82	389.57	6763.79	391	6763.79
391.1	6763.78	393.58	6763.78	393.86	6763.79	394.82	6763.78	395.29	6763.8
396.42	6763.77	396.72	6763.8	397.3	6763.78	398.15	6763.8	398.54	6763.78
402.69	6763.78	403.16	6763.79	404.38	6763.79	405.99	6763.85	406.74	6763.87
408.47	6763.94	411.75	6763.94	412.83	6763.95	413.89	6763.88	414.67	6763.82
416.04	6763.68	417.47	6763.52	418.39	6763.58	419.59	6763.36	419.75	6763.42
420.33	6763.05	420.87	6763.86	421.05	6764.06	421.76	6764.03	422.11	6764.04
422.97	6764.03	424.42	6764	426.77	6763.97	427.48	6763.98	431.42	6764.12

433.21	6764.2	434.8	6764.25	436.07	6764.28	438.42	6764.36	439.65	6764.39
440.72	6764.39	441.08	6764.4	442.51	6764.4	443.09	6764.41	443.94	6764.41
444.44	6764.42	446.08	6764.42	447.75	6764.4	449.66	6764.37	451.89	6764.33
453.39	6764.27	454.37	6764.22	456.1	6764.15	456.76	6764.11	458.09	6764.05
462.54	6763.94	464.29	6763.91	465.21	6763.95	466.9	6764	467.54	6764.03
468.02	6764.02	468.98	6764.02	470.28	6764	471.09	6764.01	476.84	6764.01
477.94	6763.96	480.42	6763.86	481.66	6763.86	481.85	6763.85	482.9	6763.85
484.71	6763.91	485.09	6763.93	486.14	6763.96	487.18	6764	488.29	6764.05
489.01	6764.07	489.76	6764.07	491.15	6764.09	491.87	6764.09	493.3	6764.11
494.07	6764.11	495.31	6764.13	497.32	6764.13	498.31	6764.14	500.27	6764.17
500.7	6764.17	501.51	6764.19	501.88	6764.18	503.76	6764.18	503.99	6764.17
505.77	6764.17	507.71	6763.84	508.43	6763.76	508.95	6763.69	510.2	6763.55
510.47	6763.47	510.84	6763.48	511.44	6763.41	511.9	6763.28	512.53	6763.28
513.09	6763.21	513.33	6763.08	513.92	6763.08	514.22	6763.11	515.16	6763.25
515.91	6763.37	516.91	6763.51	519.28	6763.87	520.12	6763.99	521.36	6764.12
522.6	6764.26	524.06	6764.28	525.08	6764.3	526.32	6764.31	527.73	6764.07
528.35	6763.97	528.65	6763.99						

Manning's n Values		num=		5					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24.27	.025	37.08	.05	207.05	.04	243.93	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	207.05	243.93		309.31	313.36	309.31		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 999

INPUT

Description:

Station	Elevation	Data	num=	489					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-6.63	6766.8	-6.11	6766.81	-5.08	6766.82	-4.36	6766.84	-.97	6766.84
-.46	6766.85	.51	6766.85	.79	6766.86	1.79	6766.86	2.12	6766.85
4.17	6766.85	4.41	6766.84	5.38	6766.84	6.23	6766.82	6.79	6766.8
9.28	6766.7	9.8	6766.69	11.23	6766.63	11.37	6766.63	12.4	6766.58
12.8	6766.57	13.42	6766.54	13.8	6766.53	15.48	6766.45	16.1	6766.43
16.8	6766.43	17.07	6766.42	17.54	6766.42	18.57	6766.4	19.02	6766.4
20.97	6766.38	21.65	6766.36	21.94	6766.36	25.84	6766.32	26.07	6766.3
26.79	6766.25	26.81	6766.24	27.79	6766.17	27.82	6766.16	28.76	6766.08
29.73	6765.99	29.88	6765.97	30.9	6765.88	31.93	6765.8	32.66	6765.75
33.63	6765.65	34.6	6765.54	35.8	6765.42	36.55	6764.86	37.53	6764.14
38.1	6763.71	38.19	6763.64	38.5	6763.42	39.13	6762.95	39.47	6762.92
39.81	6762.67	40.81	6762.26	41.18	6762.07	41.81	6761.76	42.21	6761.75
42.4	6761.46	43.24	6761.45	43.81	6761.45	44.27	6761.44	44.81	6761.44
45.3	6761.43	45.81	6761.43	46.29	6761.08	46.33	6760.95	46.81	6760.59
47.27	6760.76	47.35	6760.8	47.81	6760.97	48.38	6761.24	48.81	6761.43
49.81	6761.9	50.19	6762	50.44	6762.13	50.81	6762.23	51.81	6762.18
52.14	6762.17	52.49	6762.14	52.81	6762.13	53.52	6762.08	53.81	6762.07
54.81	6762	56.03	6761.94	57.01	6761.91	57.64	6761.9	58.66	6761.87
58.95	6761.87	59.93	6761.84	60.9	6761.82	61.75	6761.78	63.83	6761.78
64.2	6761.79	65.86	6761.79	66.75	6761.83	66.89	6761.83	67.92	6761.78
69.97	6761.7	70.82	6761.66	71	6761.66	71.62	6761.63	72.59	6761.62
73.06	6761.62	73.57	6761.61	74.55	6761.61	74.82	6761.6	75.82	6761.6
76.1	6761.61	76.54	6761.58	79.11	6761.66	79.52	6761.68	79.82	6761.68
80.82	6761.72	81.51	6761.69	82.5	6761.63	82.82	6761.62	84.49	6761.52
84.82	6761.51	85.82	6761.45	86.16	6761.45	86.48	6761.43	89.18	6761.43
89.46	6761.42	90.82	6761.42	91.19	6761.41	91.44	6761.42	94.21	6761.34
95.82	6761.29	96.23	6761.3	96.41	6761.29	97.82	6761.31	99.25	6761.34
99.82	6761.34	100.82	6761.36	102.37	6761.33	104.28	6761.29	104.36	6761.28
106.29	6761.24	106.35	6761.25	106.82	6761.24	107.34	6761.24	109.82	6761.19
110.32	6761.19	110.82	6761.18	111.32	6761.18	111.32	6761.16	111.82	6761.16
112.82	6761.12	113.34	6761.09	115.82	6760.99	116.28	6761.01	116.36	6761.07
116.82	6761.09	117.36	6761.18	118.27	6761.32	118.37	6761.33	119.26	6761.47
119.38	6761.48	120.38	6761.64	120.82	6761.7	121.25	6761.74	121.39	6761.69
121.82	6761.73	122.4	6761.71	123.24	6761.69	123.4	6761.68	124.23	6761.66
125.82	6761.61	130.82	6761.61	131.19	6761.62	131.45	6761.64	131.82	6761.65
133.18	6761.73	133.47	6761.74	135.16	6761.84	135.82	6761.87	136.49	6761.88

137.15	6761.9	137.49	6761.9	139.14	6761.93	139.51	6761.93	140.51	6761.95
141.12	6761.94	141.52	6761.87	141.82	6761.86	142.53	6761.78	146.09	6761.39
146.55	6761.37	146.82	6761.34	147.56	6761.29	147.82	6761.28	149.07	6761.19
149.82	6761.14	150.07	6761.13	150.58	6761.09	151.06	6761.07	151.58	6761.14
151.82	6761.13	152.59	6761.19	152.82	6761.2	153.6	6761.26	154.04	6761.3
155.03	6761.37	155.61	6761.42	156.03	6761.43	157.02	6761.48	158.63	6761.54
159.01	6761.56	159.64	6761.58	160.64	6761.63	161	6761.63	161.65	6761.57
161.99	6761.55	162.66	6761.49	162.98	6761.47	163.66	6761.41	164.67	6761.34
164.82	6761.32	165.68	6761.26	165.82	6761.24	165.96	6761.26	166.68	6761.24
166.82	6761.26	167.69	6761.25	170.82	6761.25	171.71	6761.32	171.93	6761.33
172.72	6761.39	173.73	6761.46	173.91	6761.48	175.9	6761.62	180.87	6761.72
181.86	6761.65	182.79	6761.59	182.86	6761.58	183.79	6761.52	183.85	6761.51
185.81	6761.37	186.81	6761.34	188.8	6761.26	189.86	6761.23	190.77	6761.19
191.76	6761.21	192.75	6761.22	192.9	6761.23	193.82	6761.24	193.91	6761.25
194.93	6761.26	195.94	6761.28	196.7	6761.37	196.95	6761.38	197.96	6761.49
198.98	6761.59	199.66	6761.65	199.99	6761.69	200.82	6761.77	201	6761.76
201.63	6761.69	201.82	6761.68	204.82	6761.38	205.05	6761.48	207.63	6761.18
212.42	6760.37	215.06	6760.13	218.01	6758.83	219.1	6757.8	219.17	6757.59
219.23	6757.51	219.29	6757.63	219.38	6757.93	220.32	6758.6	222.69	6758.71
225.06	6760.31	227.89	6760.64	230.06	6760.71	232.96	6761.08	235.06	6761.41
235.21	6760.72	235.83	6760.74	236.2	6760.8	236.45	6760.82	236.83	6760.87
237.83	6761.03	239.16	6761.23	239.49	6761.29	240.83	6761.49	242.13	6761.66
243.54	6761.86	244.1	6761.93	245.05	6762.06	245.83	6762.16	245.97	6762.15
246.88	6762.23	247.73	6762.14	247.86	6762.15	248.61	6762.09	248.87	6762.08
250.89	6761.92	251.26	6761.9	251.9	6761.88	252.14	6761.86	252.75	6761.84
253.93	6761.76	255.11	6761.69	255.94	6761.63	257.48	6761.56	257.96	6761.53
258.32	6761.56	258.66	6761.5	259.84	6761.57	260.97	6761.63	262	6761.62
262.21	6761.61	263.01	6761.6	264.02	6761.58	264.5	6761.6	264.57	6761.57
266.04	6761.63	266.26	6761.63	267.14	6761.66	267.75	6761.67	270.48	6761.74
270.67	6761.73	271.55	6761.75	272.11	6761.75	272.44	6761.76	273.12	6761.76
273.32	6761.77	274.03	6761.77	274.13	6761.78	274.71	6761.78	275.97	6761.8
276.85	6761.8	277.16	6761.81	278.17	6761.81	278.61	6761.82	279.5	6761.82
281.26	6761.84	282.14	6761.8	283.03	6761.78	283.49	6761.76	284.23	6761.74
285.24	6761.72	285.67	6761.7	286.25	6761.69	287.44	6761.73	289.4	6761.8
290.08	6761.82	290.97	6761.86	291.85	6761.88	292.32	6761.88	292.94	6761.89
293.61	6761.91	294.13	6761.91	295.31	6761.94	296.26	6761.97	297.37	6761.99
298.03	6762.01	298.38	6762.01	299.39	6762.03	299.79	6762.03	300.04	6762.05
301.41	6762.05	301.55	6762.04	304.2	6762.01	304.44	6762	305.95	6761.98
307.13	6761.98	307.47	6761.99	308.61	6762	311.26	6762.03	311.86	6762.03
312.14	6762.02	312.53	6762.04	316.59	6762.04	318.59	6762.06	319.6	6762.09
320.61	6762.11	320.97	6762.11	321.62	6762.13	322.5	6762.14	323.42	6762.14
323.68	6762.15	324.5	6762.14	325.66	6762.14	326.05	6762.13	326.67	6762.13
327.68	6762.15	328.41	6762.15	328.91	6762.17	329.59	6762.17	331.55	6762.25
332.74	6762.28	333.14	6762.28	333.75	6762.3	334.76	6762.31	335.08	6762.33
335.5	6762.33	336.68	6762.38	337.73	6762.4	339.05	6762.41	340.23	6762.43
340.82	6762.43	341.26	6762.4	341.41	6762.44	341.83	6762.41	343.03	6762.41
343.78	6762.4	344.29	6762.4	344.79	6762.39	346.14	6762.39	346.88	6762.38
347.32	6762.39	347.44	6762.38	347.89	6762.39	349.2	6762.39	349.69	6762.4
351.25	6762.4	351.85	6762.41	353.24	6762.41	353.61	6762.46	353.96	6762.46
354.5	6762.49	354.97	6762.53	355.38	6762.55	356.78	6762.65	357.14	6762.67
358.21	6762.71	359.15	6762.74	359.79	6762.74	360.02	6762.75	360.67	6762.75
361.03	6762.76	361.55	6762.76	362.69	6762.78	363.32	6762.78	364.2	6762.79
365.16	6762.81	365.97	6762.78	366.85	6762.77	368.1	6762.73	368.61	6762.72
369.11	6762.7	370.12	6762.67	370.38	6762.68	370.97	6762.64	372.12	6762.67
373.03	6762.68	373.33	6762.69	374.79	6762.71	376.19	6762.74	376.55	6762.73
376.88	6762.75	377.2	6762.74	377.44	6762.76	379.24	6762.88	380.97	6762.98
381.61	6763.02	382.25	6763.05	382.73	6763.02	382.79	6763.07	384.5	6762.97
385.38	6762.93	386.34	6762.87	387.3	6762.82	388.31	6762.83	388.91	6762.85
389.32	6762.85	389.79	6762.87	390.33	6762.88	391.35	6762.91	392.25	6762.93
393	6762.92	394.61	6762.88	395.08	6762.89	395.39	6762.88	395.97	6762.88
396.4	6762.89	397.41	6762.89	399.34	6762.84	399.95	6762.84	400.38	6762.85
401.45	6762.85	401.7	6762.86	402.46	6762.86	403.08	6762.77		

Manning's n Values		num=	5						
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-6.63	.016	26.07	.025	38.19	.05	205.05	.04	235.06	.05
Bank Sta: Left	Right	Lengths: Left	Channel	Right		Coeff	Contr.	Expan.	
205.05	235.06	541.75	549.59	541.75			.1	.3	

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 998.8

INPUT

Description:

Station	Elevation	Data	num=	480					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.74	.26	6765.74	.97	6765.75	1.27	6765.75	1.97	6765.76
2.97	6765.76	3.12	6765.77	3.28	6765.76	4.28	6765.76	4.96	6765.75
5.29	6765.74	5.95	6765.73	6.29	6765.73	7.12	6765.72	7.3	6765.71
7.94	6765.7	8.3	6765.7	8.94	6765.77	9.93	6765.74	10.31	6765.72
10.93	6765.71	11.32	6765.69	12.92	6765.64	13.12	6765.64	13.91	6765.6
14.33	6765.6	15.91	6765.57	16.34	6765.57	18.35	6765.53	18.89	6765.44
19.35	6765.41	20.36	6765.37	20.88	6765.34	22.12	6765.29	22.37	6765.27
23.12	6765.24	28.12	6765.24	28.4	6765.23	28.84	6765.2	30.12	6765.15
30.41	6765.13	30.84	6765.12	31.12	6765.1	31.83	6765.07	32.42	6765.05
33.12	6765.01	33.42	6765.01	33.82	6764.89	34.12	6764.89	34.82	6764.87
35.12	6764.87	35.81	6764.85	36.12	6764.85	36.81	6764.83	37.12	6764.83
37.8	6764.81	38.12	6764.81	38.44	6764.49	38.8	6764.28	39.12	6763.96
39.45	6763.65	39.79	6763.31	40.12	6763	40.45	6762.67	40.79	6762.35
41.91	6761.26	43.12	6760.09	43.47	6760.03	43.77	6759.97	44.47	6759.85
44.77	6759.79	45.77	6759.62	46.12	6759.55	47.12	6759.38	47.76	6759.26
48.12	6759.2	48.49	6759.19	48.75	6759.2	49.12	6759.2	49.5	6759.19
50.12	6759.19	51.12	6759.17	51.51	6759.17	51.74	6759.16	52.12	6759.16
52.51	6759.15	53.12	6759.15	53.51	6759.24	53.73	6759.21	54.52	6759.39
55.12	6759.54	56.12	6759.77	56.53	6759.87	57.12	6760	58.12	6760.24
58.54	6760.28	58.7	6760.35	59.54	6760.43	59.7	6760.44	60.55	6760.52
60.7	6760.54	61.55	6760.62	62.12	6760.67	62.56	6760.72	63.12	6760.77
63.68	6760.76	64.12	6760.74	65.12	6760.72	65.57	6760.7	66.58	6760.68
66.67	6760.67	67.58	6760.65	67.66	6760.66	68.12	6760.65	68.59	6760.67
68.66	6760.59	69.12	6760.62	69.65	6760.64	70.12	6760.67	71.12	6760.71
71.6	6760.74	72.12	6760.76	72.6	6760.79	73.12	6760.81	73.61	6760.75
73.63	6760.79	74.61	6760.67	75.12	6760.6	75.63	6760.54	76.12	6760.47
77.12	6760.35	77.62	6760.28	78.12	6760.22	78.61	6760.25	78.63	6760.28
79.12	6760.32	79.61	6760.38	79.64	6760.39	80.6	6760.51	81.12	6760.57
81.6	6760.64	81.65	6760.64	83.12	6760.83	83.59	6760.81	83.66	6760.76
84.12	6760.74	84.58	6760.69	85.67	6760.55	86.57	6760.43	86.67	6760.42
87.57	6760.3	88.12	6760.23	88.68	6760.23	89.12	6760.22	89.27	6760.22
89.68	6760.22	90.12	6760.21	90.69	6760.21	91.12	6760.2	91.69	6760.2
92.12	6760.19	92.7	6760.19	93.54	6760.17	93.7	6760.07	94.12	6760.05
94.71	6759.94	95.53	6759.78	95.71	6759.74	96.53	6759.58	97.72	6759.34
98.12	6759.27	98.52	6759.23	98.73	6759.28	99.12	6759.24	99.73	6759.25
100.51	6759.27	100.74	6759.27	101.5	6759.29	102.12	6759.31	102.5	6759.31
103.12	6759.33	103.49	6759.29	103.75	6759.27	104.05	6759.24	104.76	6759.16
105.12	6759.13	105.49	6759.09	105.76	6759.07	106.12	6759.03	106.48	6759
107.12	6758.93	108.12	6758.84	108.47	6758.87	108.77	6758.79	109.12	6758.82
110.12	6758.76	110.46	6758.73	111.46	6758.67	111.79	6758.64	112.45	6758.6
112.79	6758.57	113.12	6758.55	113.8	6758.18	114.8	6757.62	115.12	6757.45
115.44	6757.34	115.81	6757.07	116.12	6756.96	116.43	6757.01	116.55	6757.09
116.81	6757.26	117.12	6757.3	117.43	6757.49	117.82	6757.72	118.12	6757.91
118.43	6757.85	118.82	6758.14	119.12	6758.08	120.12	6758.42	120.42	6758.51
121.41	6758.85	122.12	6759.08	122.84	6759.32	123.12	6759.42	123.4	6759.48
123.85	6759.33	124.12	6759.39	124.85	6759.29	125.12	6759.26	125.39	6759.22
126.12	6759.13	126.39	6759.09	127.12	6759	127.38	6758.96	128.12	6758.87
128.38	6758.89	128.87	6758.85	129.05	6758.86	129.12	6758.87	129.37	6758.86
129.87	6758.85	130.37	6758.83	130.88	6758.82	131.36	6758.8	131.88	6758.79
132.36	6758.77	132.89	6758.76	133.12	6758.75	133.89	6758.87	134.35	6758.93
134.9	6759.02	135.35	6759.08	135.9	6759.17	136.34	6759.23	136.91	6759.32
137.34	6759.38	137.91	6759.47	138.12	6759.49	138.33	6759.47	138.92	6759.36
139.33	6759.31	139.92	6759.21	140.12	6759.17	141.32	6758.98	141.93	6758.87
143.12	6758.68	143.31	6758.66	143.94	6758.69	144.3	6758.68	145.3	6758.71
145.95	6758.72	146.29	6758.73	147.12	6758.74	147.29	6758.75	147.96	6758.76
148.29	6758.76	148.96	6758.8	149.28	6758.81	149.97	6758.84	151.98	6758.92
152.27	6758.94	152.98	6758.97	153.99	6758.94	154.26	6758.92	157.24	6758.8
158.01	6758.76	158.24	6758.74	159.01	6758.74	159.12	6758.73	160.12	6758.72
160.23	6758.71	161.02	6758.7	162.22	6758.69	163.03	6758.67	163.22	6758.68
164.03	6758.75	164.21	6758.76	165.04	6758.83	165.21	6758.84	166.04	6758.91
166.91	6758.98	168.06	6759.07	168.18	6759.09	169.08	6759.33	169.17	6759.36
170.09	6759.6	170.15	6759.62	171.11	6759.87	172.12	6760.14	173.11	6760.4

174.15	6760.4	175.09	6760.41	177.12	6760.41	177.19	6760.4	178.05	6760.41
179.03	6760.34	179.22	6760.32	180.02	6760.27	180.23	6760.25	181.01	6760.2
182.12	6760.11	182.26	6760.11	182.98	6760.05	183.27	6760.06	183.97	6760.12
184.29	6760.14	185.3	6760.23	186.93	6760.36	187.33	6760.37	187.91	6760.44
188.13	6760.43	188.9	6760.31	189.89	6760.14	190.13	6760.11	190.87	6759.98
191.86	6759.82	192.13	6759.78	192.4	6759.76	192.85	6759.66	193.13	6759.64
194.43	6759.6	195.81	6759.56	196.13	6759.54	197.13	6759.51	197.47	6759.58
197.78	6759.49	198.13	6759.56	198.77	6759.71	199.5	6759.87	199.75	6759.93
200.13	6760.01	202.13	6760.47	202.54	6760.48	202.71	6760.6	203.13	6760.61
203.55	6760.61	203.7	6760.68	204.13	6760.68	204.69	6760.74	205.67	6760.85
206.13	6760.91	207.13	6761.02	208.13	6761.14	209.62	6760.84	209.64	6760.84
210.61	6760.66	210.65	6760.7	211.13	6760.62	211.59	6760.58	211.66	6760.63
212.13	6760.59	212.58	6760.59	212.68	6760.51	213.13	6760.51	213.57	6760.52
213.69	6760.53	214.13	6760.54	214.71	6760.54	215.13	6760.55	215.54	6760.55
215.72	6760.56	216.53	6760.56	216.73	6760.57	217.13	6760.57	217.51	6760.58
218.13	6760.58	219.77	6760.53	220.13	6760.51	221.8	6760.46	222.13	6760.44
222.45	6760.43	222.82	6760.5	223.13	6760.49	223.43	6760.53	223.83	6760.57
224.42	6760.65	224.84	6760.7	225.41	6760.76	225.86	6760.82	226.39	6760.88
227.38	6761	227.89	6761.05	228.13	6761.08	228.9	6761.09	229.35	6761.09
230.34	6761.11	231.13	6761.11	231.32	6761.12	231.94	6761.12	232.13	6761.13
233.3	6761.13	234.28	6761.07	234.98	6761.04	235.27	6761.02	236	6760.98
236.26	6760.97	237.01	6760.93	237.24	6760.91	238.13	6760.82	238.23	6760.82
239.04	6760.85	239.22	6760.86	240.05	6760.89	240.2	6760.9	241.07	6760.93
241.19	6760.93	242.08	6760.97	242.18	6760.97	243.1	6760.93	244.11	6760.9
245.14	6760.88	245.66	6760.86	247.11	6760.83	248.17	6760.83	250.07	6760.85
251.21	6760.85	252.22	6760.86	253.03	6760.82	254.25	6760.81	255	6760.8
256.28	6760.8	256.98	6760.79	257.29	6760.79	257.96	6760.78	258.3	6760.79
258.95	6760.85	259.32	6760.88	259.94	6760.87	260.13	6760.89	260.92	6760.9
261.35	6760.9	261.91	6760.91	262.36	6760.91	262.9	6760.92	263.37	6760.92
263.88	6760.93	264.39	6760.94	265.13	6760.94	265.4	6760.95	265.86	6760.95
266.13	6760.96	266.42	6760.95	266.84	6760.96	267.13	6760.96	268.13	6760.93
269.13	6760.93	269.46	6760.94	270.79	6760.94	271.13	6760.95	273.75	6760.95
274.13	6760.94	274.74	6760.94	275.13	6760.93	275.72	6760.93	276.13	6760.92
276.56	6760.93	276.71	6760.92	277.57	6760.94	278.13	6760.95	278.32	6761.01

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	41.91	.04	104.05	.04	129.05	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	104.05	129.05		78.95 79.9	78.95		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 998.7

INPUT

Description:

Station	Elevation	Data	num=	27							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.63	.44	6765.63	.95	6765.62	5.44	6765.45	5.97	6765.43		
10.44	6765.37	10.99	6765.32	15.44	6765.16	16.01	6765.18	20.45	6765.08		
21.03	6765.07	25.45	6765	26.05	6764.98	28	6764.85	30	6764.74		
32.69	6762.99	37.55	6759.64	45.53	6758.4	47.17	6759.09	55.96	6761.83		
56.71	6761.84	62.8	6761.81	63.42	6761.82	74.49	6759.52	83.28	6762.7		
123.14	6763.23	149.19	6762.81								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	32.69	.04	83.28	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	32.69	83.28		137.57 137.57	137.57		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 998.56

Description:

Manning's n Values

Bank Sta:	Left	Right	Lengths:		Left Channel	Right	Coeff Contr.	Expan.
	0	87.95	139.94	139.94	139.94		.1	.3

RIVER: Walton Creek

INPUT

Description:

Manning's n Values

Ineffective Flow	num=	1
Sta L	Sta R	Elev Permanent
146.13	161.9	6761.68 F

RIVER: Walton Creek

INPUT

Description: Stone Lane Culverts

Distance from Upstream XS = 7

Deck/Roadway Width = 50

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 68

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-24.1	6764.58		0		-23.72	6764.58		0		-19.37	6764.36		0	
-18.72	6764.33		0		-14.5	6764.23		0		-13.72	6764.19		0	
-9.63	6764.02		0		-8.72	6764		0		-7.75	6763.99		0	
-3.71	6764.05		0		.11	6763.91		0		1.29	6763.88		0	
4.98	6763.72		0		6.29	6763.67		0		9.85	6763.72		0	
11.29	6763.74		0		14.72	6763.67		0		16.29	6763.55		0	
19.59	6763.45		0		21.3	6763.47		0		24.46	6763.41		0	
26.3	6763.33		0		28.24	6763.26		0		31.3	6763.12		0	
34.2	6762.99		0		36.3	6762.91		0		39.07	6762.86		0	
41.3	6762.79		0		43.94	6762.69		0		46.3	6762.61		0	
48.81	6762.48		0		51.31	6762.33		0		53.69	6762.29		0	
56.31	6762.21		0		58.56	6762.19		0		61.31	6762.1		0	
64.22	6762.05		0		66.31	6761.97		0		68.3	6761.9		0	
71.31	6761.78		0		73.17	6761.8		0		76.32	6761.82		0	
78.04	6761.79		0		81.32	6761.69		0		82.91	6761.65		0	
86.32	6761.61		0		87.78	6761.58		0		91.32	6761.58		0	
92.65	6761.56		0		96.32	6761.55		0		100.2	6761.45		0	
101.32	6761.42		0		102.39	6761.4		0		106.33	6761.39		0	
107.26	6761.39		0		111.33	6761.4		0		112.13	6761.39		0	
116.33	6761.35		0		117	6761.32		0		121.33	6761.12		0	
121.87	6761.14		0		126.33	6761.31		0		126.75	6761.3		0	
131.34	6761.18		0		131.62	6761.18		0		136.34	6761.08		0	
137.12	6761.08		0		150	6761.08		0						

Upstream Bridge Cross Section Data

Station Elevation Data		num=		108					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
.78	6764.75	2.05	6764.79	4.72	6764.72	7.05	6764.7	9.74	6764.69
12.05	6764.6	14.76	6764.5	17.05	6764.44	19.79	6764.4	22.05	6764.33
24.3	6764.29	27.05	6764.18	29.83	6764.15	32.05	6764.11	32.39	6764.09
33.74	6764.02	34.85	6763.95	37.05	6763.81	37.96	6763.53	38.9	6763.25
41.67	6760.48	42.05	6758.69	42.55	6758.61	44.85	6758.24	47.05	6757.85
48.93	6757.02	50.46	6757.2	50.92	6757.25	52.05	6758.01	53.89	6758.09
54.95	6758.14	57.25	6758.62	57.43	6758.63	59.33	6758.68	62.06	6759.18
62.96	6759.02	64.95	6758.67	65.75	6758.68	67.06	6759.19	69.2	6759.22
71.47	6759.17	72.1	6759.15	75.43	6759.16	77.32	6759.22	81.62	6758.9
82.55	6758.85	82.96	6758.83	87.78	6758.6	90.49	6758.65	93.01	6758.78
94.35	6758.78	98.24	6758.72	98.4	6758.76	99.06	6758.95	99.86	6758.95
100.2	6758.93	103.43	6758.77	105.18	6758.81	108.6	6758.69	112.19	6758.47
113.77	6758.45	118.18	6758.5	118.94	6758.52	119.21	6758.56	124.11	6759.17
126.75	6760.84	128.76	6760.61	130.26	6760.51	133.74	6760.04	134.45	6759.48
136.03	6760.17	137.85	6759.7	139.33	6760	139.62	6759.82	140.25	6759.84
144.79	6759.92	146.13	6761.68	146.32	6761.27	147.51	6761.16	148.29	6761.09
149.81	6762.64	150.35	6762.56	150.71	6762.65	150.71	6761.72	150.72	6761.72
151.48	6761.71	151.52	6761.7	151.54	6761.7	151.63	6761.67	152.36	6761.29
152.55	6761.21	152.89	6761.08	153.18	6760.96	153.59	6760.8	154	6760.45
154.29	6760.52	154.62	6760.28	154.82	6760.03	155.56	6760.02	155.64	6760.01
155.69	6760.01	156.46	6760.02	156.69	6760.02	156.81	6760.02	157.52	6760.04
160.3	6760.07	161.28	6760.05	161.9	6760.05				

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
.78	.016	32.39	.025	42.55	.4	57.43	.02	147.51	.016

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	42.55	57.43		.3	.5

Ineffective Flow		num=		1	
Sta L	Sta R	Elev	Permanent		
146.13	161.9	6761.68	F		

Downstream Deck/Roadway Coordinates

num=		67							
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-15.53	6764.58		0		-15.15	6764.58		0	
-10.15	6764.33		0		-5.93	6764.23		0	
-1.06	6764.02		0		-.15	6764		0	
4.86	6764.05		0		8.68	6763.91		0	
13.55	6763.72		0		14.86	6763.67		0	
19.86	6763.74		0		23.29	6763.67		0	
28.16	6763.45		0		29.87	6763.47		0	
					33.03	6763.41		0	

Station	Elevation	Data	num=	465					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.65	.47	6763.65	.88	6763.64	1.08	6763.64	1.68	6763.63
5.22	6763.63	5.82	6763.64	6.15	6763.64	6.61	6763.65	7.4	6763.65
8.01	6763.63	8.19	6763.63	8.25	6763.62	9.31	6763.62	9.77	6763.61
10.36	6763.61	10.56	6763.6	11.36	6763.6	11.42	6763.59	11.54	6763.59
12.15	6763.58	12.47	6763.58	12.94	6763.55	13.12	6763.54	13.52	6763.51
13.73	6763.5	14.33	6763.45	14.52	6763.44	14.58	6763.44	14.7	6763.43
15.31	6763.39	15.63	6763.37	16.1	6763.33	16.28	6763.33	16.69	6763.31
16.89	6763.3	17.49	6763.27	17.52	6763.27	17.68	6763.26	17.74	6763.25
17.86	6763.24	18.47	6763.17	18.8	6763.11	19.26	6763	19.45	6762.95
19.85	6762.85	20.05	6762.8	20.66	6762.65	20.84	6762.6	20.9	6762.59
20.91	6762.59	21.03	6762.55	21.63	6762.34	21.96	6762.27	22.42	6762.06
22.61	6762.02	23.01	6761.85	23.21	6761.93	23.82	6762.04	24	6762.08
24.07	6761.99	24.19	6761.77	24.79	6760.6	25.12	6760.04	25.59	6758.87
25.77	6759.14	26.17	6758.28	26.38	6758.35	26.98	6758.58	27.17	6758.86
27.23	6758.83	27.35	6758.73	27.96	6759.56	28.28	6759.12	28.75	6759.1
28.93	6759.09	29.34	6759.08	29.54	6759.07	30.14	6759.04	30.33	6759.04
30.39	6759.03	30.51	6759.04	31.12	6759.01	31.44	6759.02	31.91	6759.03
32.09	6759.05	32.5	6759.06	32.7	6759.08	33.31	6759.13	33.41	6759.14
33.49	6759.14	33.55	6759.15	33.68	6759.16	34.28	6759.24	34.61	6759.28
35.07	6759.08	35.26	6759.18	35.66	6759.05	35.86	6758.98	36.47	6758.62
36.65	6758.52	36.71	6758.47	36.84	6758.37	37.44	6757.81	37.77	6757.56
38.23	6757.15	38.42	6757.06	38.82	6756.72	39.03	6756.75	39.63	6756.49
39.82	6756.48	39.88	6756.51	40	6756.42	40.61	6756.79	40.93	6756.42
41.4	6756.51	41.58	6757.3	41.99	6757.54	42.19	6757.73	42.79	6757.62
42.98	6757.67	43.04	6757.68	43.16	6757.57	43.77	6758.07	44.09	6757.61
44.56	6757.92	44.74	6757.71	45.15	6757.91	45.35	6758	45.91	6758.28
45.96	6758.3	46.14	6758.41	46.2	6758.42	46.32	6758.48	46.93	6758.77
47.26	6758.93	47.72	6759.16	47.91	6759.24	48.31	6759.44	48.51	6759.53
49.12	6759.77	49.3	6759.84	49.36	6759.86	49.49	6759.86	50.09	6759.83
50.42	6759.82	50.88	6759.79	51.07	6759.79	51.47	6759.77	51.67	6759.76
52.28	6759.66	52.46	6759.64	52.53	6759.63	52.65	6759.61	53.26	6759.52
53.58	6759.47	54.05	6759.4	54.23	6759.37	54.63	6759.31	54.84	6759.31
55.44	6759.3	55.81	6759.3	56.42	6759.27	56.74	6759.26	57.21	6759.24
57.39	6759.23	57.8	6759.22	58	6759.21	58.6	6759.18	58.97	6759.18
59.58	6759.19	59.9	6759.17	60.37	6759.18	60.56	6759.16	61.16	6759.16
61.77	6759.13	62.01	6759.13						

87.43	6756.76	88.04	6756.72	88.37	6756.7	88.83	6756.68	89.02	6756.67
89.42	6756.64	89.62	6756.63	90.23	6756.59	90.41	6756.57	90.47	6756.57
90.6	6756.58	91.04	6756.53	91.2	6756.51	91.53	6756.53	91.99	6756.56
92.18	6756.55	92.58	6756.57	92.78	6756.58	93.64	6756.58	93.76	6756.59
94.36	6756.6	94.69	6756.61	95.16	6756.62	95.34	6756.63	95.74	6756.64
95.95	6756.66	96.55	6756.7	96.74	6756.72	96.8	6756.73	96.92	6756.73
97.53	6756.77	97.85	6756.77	98.32	6756.85	98.5	6756.79	98.91	6756.83
99.11	6756.85	99.71	6756.92	99.9	6756.95	99.96	6756.95	100.08	6756.98
100.69	6757.09	101.01	6757.18	101.48	6757.36	101.66	6757.43	102.07	6757.59
102.27	6757.65	102.88	6757.81	103.06	6757.86	103.12	6757.87	103.25	6757.88
103.85	6758	104.18	6758.02	104.64	6758.02	104.83	6758.21	105.23	6758.25
105.43	6758.29	106.04	6758.55	106.22	6758.59	106.29	6758.61	106.41	6758.64
106.52	6758.66	107.01	6758.75	107.34	6758.85	107.8	6758.89	107.99	6758.99
108.39	6759.04	108.6	6759.07	109.2	6759.15	109.39	6759.17	109.45	6759.18
109.57	6759.19	110.18	6759.27	110.5	6759.31	110.97	6759.37	111.15	6759.41
111.56	6759.46	111.76	6759.49	112.36	6759.58	112.55	6759.61	112.61	6759.62
112.73	6759.62	113.34	6759.63	113.66	6759.64	114.13	6759.67	114.31	6759.66
114.72	6759.67	114.92	6759.69	115.53	6759.72	115.71	6759.74	115.77	6759.75
115.9	6759.76	116.5	6759.9	116.83	6759.91	117.29	6759.98	117.48	6759.97
117.88	6760.02	118.08	6760.04	118.69	6760.04	118.87	6760.05	119.06	6760.05
119.66	6760.08	119.99	6760.09	120.45	6760.11	120.64	6760.12	121.04	6760.14
121.24	6760.15	121.85	6760.18	122.03	6760.19	122.1	6760.2	122.22	6760.19
122.83	6760.25	123.15	6760.23	123.62	6760.27	123.8	6760.29	124.2	6760.32
124.41	6760.34	125.01	6760.39	125.2	6760.4	125.26	6760.41	125.38	6760.42
125.99	6760.47	126.31	6760.49	126.78	6760.53	126.96	6760.53	127.37	6760.56
127.57	6760.57	128.17	6760.59	128.36	6760.6	128.54	6760.6	129.15	6760.63
129.48	6760.64	129.94	6760.66	130.13	6760.66	130.53	6760.68	130.73	6760.69
131.34	6760.73	131.52	6760.74	131.58	6760.74	131.71	6760.75	132.31	6760.79
132.64	6760.81	132.74	6760.81	133.12	6760.84	133.2	6760.84	133.66	6760.87
133.96	6760.88	134.51	6760.9	134.69	6760.91	134.8	6760.91	135.31	6760.92
135.71	6760.92	135.83	6760.93	136.48	6760.94	136.74	6760.95	137.15	6761.04
137.32	6761.07	137.76	6761.17	138.15	6761.26	138.46	6761.32	138.79	6761.39
138.99	6761.44	139.78	6761.61	139.81	6761.62	139.83	6761.62	139.92	6761.64
140.67	6761.81	140.84	6761.84	141.1	6761.9	141.51	6761.99	141.86	6762.07
142.35	6762.18	142.41	6762.19	142.88	6762.3	143.18	6762.32	143.73	6762.36
143.91	6762.38	149.15	6762.38	149.89	6762.37	150.05	6762.36	150.31	6762.36
150.73	6762.35	151.08	6762.34	151.63	6762.34	152.1	6762.33	152.4	6762.32
152.95	6762.31	153.24	6762.31	153.76	6762.3	154.08	6762.29	154.26	6762.29
154.92	6762.28	155.18	6762.27	155.58	6762.26	155.76	6762.26	156.2	6762.25
156.6	6762.24	156.9	6762.23	157.22	6762.23	157.43	6762.22	158.21	6762.21
158.25	6762.21	158.27	6762.2	158.37	6762.2	159.11	6762.19	159.27	6762.18
159.53	6762.18	159.95	6762.17	160.3	6762.16	160.65	6762.15	165.18	6762.15

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24	.025	34.61	.04	112.36	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	34.61	112.36		.3	.5

Upstream Embankment side slope	=	3 horiz. to 1.0 vertical
Downstream Embankment side slope	=	3 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.98
Elevation at which weir flow begins	=	6762
Energy head used in spillway design	=	
Spillway height used in design	=	
Weir crest shape	=	Broad Crested

Number of Culverts = 1

Culvert Name	Shape	Rise	Span
Culvert #1	Circular	4	
FHWA Chart # 2 - Corrugated Metal Pipe Culvert			
FHWA Scale # 3 - Pipe projecting from fill			
Solution Criteria = Highest U.S. EG			
Culvert Upstrm Dist	Length	Top n	Bottom n
Coef		Depth Blocked	Entrance Loss Coef
	21	120	.024
			.013
			0
			.5
			1

Upstream Elevation = 6756.5

Centerline Station = 50

Downstream Elevation = 6756.01

Centerline Station = 40

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 998.4

INPUT

Description:

Station	Elevation	Data	num=	465					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.65	.47	6763.65	.88	6763.64	1.08	6763.64	1.68	6763.63
5.22	6763.63	5.82	6763.64	6.15	6763.64	6.61	6763.65	7.4	6763.65
8.01	6763.63	8.19	6763.63	8.25	6763.62	9.31	6763.62	9.77	6763.61
10.36	6763.61	10.56	6763.6	11.36	6763.6	11.42	6763.59	11.54	6763.59
12.15	6763.58	12.47	6763.58	12.94	6763.55	13.12	6763.54	13.52	6763.51
13.73	6763.5	14.33	6763.45	14.52	6763.44	14.58	6763.44	14.7	6763.43
15.31	6763.39	15.63	6763.37	16.1	6763.33	16.28	6763.33	16.69	6763.31
16.89	6763.3	17.49	6763.27	17.52	6763.27	17.68	6763.26	17.74	6763.25
17.86	6763.24	18.47	6763.17	18.8	6763.11	19.26	6763	19.45	6762.95
19.85	6762.85	20.05	6762.8	20.66	6762.65	20.84	6762.6	20.9	6762.59
20.91	6762.59	21.03	6762.55	21.63	6762.34	21.96	6762.27	22.42	6762.06
22.61	6762.02	23.01	6761.85	23.21	6761.93	23.82	6762.04	24	6762.08
24.07	6761.99	24.19	6761.77	24.79	6760.6	25.12	6760.04	25.59	6758.87
25.77	6759.14	26.17	6758.28	26.38	6758.35	26.98	6758.58	27.17	6758.86
27.23	6758.83	27.35	6758.73	27.96	6759.56	28.28	6759.12	28.75	6759.1
28.93	6759.09	29.34	6759.08	29.54	6759.07	30.14	6759.04	30.33	6759.04
30.39	6759.03	30.51	6759.04	31.12	6759.01	31.44	6759.02	31.91	6759.03
32.09	6759.05	32.5	6759.06	32.7	6759.08	33.31	6759.13	33.41	6759.14
33.49	6759.14	33.55	6759.15	33.68	6759.16	34.28	6759.24	34.61	6759.28
35.07	6759.08	35.26	6759.18	35.66	6759.05	35.86	6758.98	36.47	6758.62
36.65	6758.52	36.71	6758.47	36.84	6758.37	37.44	6757.81	37.77	6757.56
38.23	6757.15	38.42	6757.06	38.82	6756.72	39.03	6756.75	39.63	6756.49
39.82	6756.48	39.88	6756.51	40	6756.42	40.61	6756.79	40.93	6756.42
41.4	6756.51	41.58	6757.3	41.99	6757.54	42.19	6757.73	42.79	6757.62
42.98	6757.67	43.04	6757.68	43.16	6757.57	43.77	6758.07	44.09	6757.61
44.56	6757.92	44.74	6757.71	45.15	6757.91	45.35	6758	45.91	6758.28
45.96	6758.3	46.14	6758.41	46.2	6758.42	46.32	6758.48	46.93	6758.77
47.26	6758.93	47.72	6759.16	47.91	6759.24	48.31	6759.44	48.51	6759.53
49.12	6759.77	49.3	6759.84	49.36	6759.86	49.49	6759.86	50.09	6759.83
50.42	6759.82	50.88	6759.79	51.07	6759.79	51.47	6759.77	51.67	6759.76
52.28	6759.66	52.46	6759.64	52.53	6759.63	52.65	6759.61	53.26	6759.52
53.58	6759.47	54.05	6759.4	54.23	6759.37	54.63	6759.31	54.84	6759.31
55.44	6759.3	55.81	6759.3	56.42	6759.27	56.74	6759.26	57.21	6759.24
57.39	6759.23	57.8	6759.22	58	6759.21	58.6	6759.18	58.97	6759.18
59.58	6759.19	59.9	6759.17	60.37	6759.18	60.56	6759.16	61.16	6759.16
61.77	6759.13	62.01	6759.13	62.14	6759.12	62.74	6759.14	63.07	6759.12
63.53	6759.12	63.72	6759.11	64.32	6759.11	64.93	6759.1	65.18	6759.1
65.3	6759.11	65.9	6759.17	66.23	6759.19	66.7	6759.24	66.88	6759.26
67.28	6759.3	67.49	6759.32	68.09	6759.37	68.28	6759.39	68.34	6759.4
68.46	6759.41	69.07	6759.46	69.39	6759.5	69.86	6759.54	70.04	6759.56
70.45	6759.59	70.65	6759.57	71.25	6759.51	71.44	6759.49	71.5	6759.48
71.62	6759.46	72.23	6759.37	72.55	6759.33	73.02	6759.26	73.2	6759.24
73.61	6759.18	73.81	6759.15	74.42	6759.06	74.6	6759.03	74.66	6759.01
74.79	6759.01	75.39	6758.87	75.72	6758.89	76.18	6758.47	76.37	6758.39
76.77	6758.04	76.97	6758.05	77.58	6757.93	77.76	6757.91	77.82	6757.9
77.95	6757.89	78.55	6757.97	78.88	6757.93	79.34	6757.95	79.53	6757.96
79.93	6757.98	80.13	6757.99	80.74	6758.02	80.93	6758.03	80.99	6758.03
81.11	6758	81.72	6757.83	82.04	6757.74	82.51	6757.62	82.69	6757.57
83.1	6757.45	83.3	6757.4	83.9	6757.33	84.09	6757.3	84.15	6757.3
84.27	6757.28	84.88	6757.21	85.2	6757.17	85.67	6757.11	85.85	6757.09
86.26	6757.04	86.46	6756.95	87.07	6756.82	87.25	6756.77	87.31	6756.77
87.43	6756.76	88.04	6756.72	88.37	6756.7	88.83	6756.68	89.02	6756.67
89.42	6756.64	89.62	6756.63	90.23	6756.59	90.41	6756.57	90.47	6756.57
90.6	6756.58	91.04	6756.53	91.2	6756.51	91.53	6756.53	91.99	6756.56
92.18	6756.55	92.58	6756.57	92.78	6756.58	93.64	6756.58	93.76	6756.59
94.36	6756.6	94.69	6756.61	95.16	6756.62	95.34	6756.63	95.74	6756.64
95.95	6756.66	96.55	6756.7	96.74	6756.72	96.8	6756.73	96.92	6756.73
97.53	6756.77	97.85	6756.77	98.32	6756.85	98.5	6756.79	98.91	6756.83
99.11	6756.85	99.71	6756.92	99.9	6756.95	99.96	6756.95	100.08	6756.98

100.69	6757.09	101.01	6757.18	101.48	6757.36	101.66	6757.43	102.07	6757.59
102.27	6757.65	102.88	6757.81	103.06	6757.86	103.12	6757.87	103.25	6757.88
103.85	6758	104.18	6758.02	104.64	6758.02	104.83	6758.21	105.23	6758.25
105.43	6758.29	106.04	6758.55	106.22	6758.59	106.29	6758.61	106.41	6758.64
106.52	6758.66	107.01	6758.75	107.34	6758.85	107.8	6758.89	107.99	6758.99
108.39	6759.04	108.6	6759.07	109.2	6759.15	109.39	6759.17	109.45	6759.18
109.57	6759.19	110.18	6759.27	110.5	6759.31	110.97	6759.37	111.15	6759.41
111.56	6759.46	111.76	6759.49	112.36	6759.58	112.55	6759.61	112.61	6759.62
112.73	6759.62	113.34	6759.63	113.66	6759.64	114.13	6759.67	114.31	6759.66
114.72	6759.67	114.92	6759.69	115.53	6759.72	115.71	6759.74	115.77	6759.75
115.9	6759.76	116.5	6759.9	116.83	6759.91	117.29	6759.98	117.48	6759.97
117.88	6760.02	118.08	6760.04	118.69	6760.04	118.87	6760.05	119.06	6760.05
119.66	6760.08	119.99	6760.09	120.45	6760.11	120.64	6760.12	121.04	6760.14
121.24	6760.15	121.85	6760.18	122.03	6760.19	122.1	6760.2	122.22	6760.19
122.83	6760.25	123.15	6760.23	123.62	6760.27	123.8	6760.29	124.2	6760.32
124.41	6760.34	125.01	6760.39	125.2	6760.4	125.26	6760.41	125.38	6760.42
125.99	6760.47	126.31	6760.49	126.78	6760.53	126.96	6760.53	127.37	6760.56
127.57	6760.57	128.17	6760.59	128.36	6760.6	128.54	6760.6	129.15	6760.63
129.48	6760.64	129.94	6760.66	130.13	6760.66	130.53	6760.68	130.73	6760.69
131.34	6760.73	131.52	6760.74	131.58	6760.74	131.71	6760.75	132.31	6760.79
132.64	6760.81	132.74	6760.81	133.12	6760.84	133.2	6760.84	133.66	6760.87
133.96	6760.88	134.51	6760.9	134.69	6760.91	134.8	6760.91	135.31	6760.92
135.71	6760.92	135.83	6760.93	136.48	6760.94	136.74	6760.95	137.15	6761.04
137.32	6761.07	137.76	6761.17	138.15	6761.26	138.46	6761.32	138.79	6761.39
138.99	6761.44	139.78	6761.61	139.81	6761.62	139.83	6761.62	139.92	6761.64
140.67	6761.81	140.84	6761.84	141.1	6761.9	141.51	6761.99	141.86	6762.07
142.35	6762.18	142.41	6762.19	142.88	6762.3	143.18	6762.32	143.73	6762.36
143.91	6762.38	149.15	6762.38	149.89	6762.37	150.05	6762.36	150.31	6762.36
150.73	6762.35	151.08	6762.34	151.63	6762.34	152.1	6762.33	152.4	6762.32
152.95	6762.31	153.24	6762.31	153.76	6762.3	154.08	6762.29	154.26	6762.29
154.92	6762.28	155.18	6762.27	155.58	6762.26	155.76	6762.26	156.2	6762.25
156.6	6762.24	156.9	6762.23	157.22	6762.23	157.43	6762.22	158.21	6762.21
158.25	6762.21	158.27	6762.2	158.37	6762.2	159.11	6762.19	159.27	6762.18
159.53	6762.18	159.95	6762.17	160.3	6762.16	160.65	6762.15	165.18	6762.15

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24	.025	34.61	.04	112.36	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	34.61	112.36		60.64 59.41	60.64		.3	.5

LATERAL STRUCTURE

RIVER: Walton Creek
 REACH: lower-split RS: 998.35

INPUT

Description:

Lateral structure position = Right overbank

Distance from Upstream XS =

Deck/Roadway Width = 5

Weir Coefficient = .1

Weir Flow Reference = Water Surface

Weir Embankment Coordinates num = 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.02	3.47	6761.09	8.2	6761.14	11.04	6761.15	17.01	6761.21
19.56	6761.2	22.32	6761.25	29.38	6761.24	32.38	6761.28	34.39	6761.27
40.27	6761.21	44.66	6761.25	47.41	6761.25	51.04	6761.29	53.17	6761.25
56.48	6761.23	57.42	6761.24	64.87	6761.24	69.44	6761.27	73.44	6761.27
77.54	6761.24	82.37	6761.38	87.45	6761.26	92.46	6761.18	98.1	6761.28
103.29	6761.28	107.49	6761.26	109.42	6761.23	112.63	6761.21	113.67	6761.18
117.47	6761.15	119.08	6761.17	123.01	6761.17	124.05	6761.2	128.2	6761.21
132.6	6761.27	133.39	6761.26	142.26	6761.26	146.88	6761.35	150.95	6761.34
156.75	6761.35	162.45	6761.43	165.57	6761.42	167.38	6761.38	169.31	6761.41
171.8	6761.42	174.91	6761.46	178.02	6761.46	181.14	6761.49	186.69	6761.5
191.52	6761.46	192.49	6761.48	199.53	6761.4	202.15	6761.4	207.09	6761.24
212.77	6761.22	217.47	6761.26	221.47	6761.28	223.69	6761.27	227.26	6761.23
233.55	6761.19	238.22	6761.2	242.55	6761.31	247.3	6761.25	248.56	6761.26
252.38	6761.22	253.79	6761.23	257.56	6761.21	259.56	6761.18	262.57	6761.21

264.17	6761.25	267.57	6761.23	269.36	6761.17	272.66	6761.18	277.58	6761.22
280.78	6761.22	282.58	6761.24	283.89	6761.21	287.58	6761.17	292.2	6761.14
297.39	6761.16	307.6	6761.17	309.6	6761.15	315.6	6761.14	317.09	6761.11
324.37	6761.04	327.61	6761.03	331.67	6760.98	336.56	6760.88	338.52	6760.86
342.61	6760.78	346.61	6760.74	347.61	6760.71	352	6760.71	356.61	6760.58
357.61	6760.57	361.04	6760.4	362.62	6760.34	366.62	6760.38	372.45	6760.38
377.56	6760.28	380.62	6760.32	387.47	6760.45	390.62	6760.44	392.89	6760.41
398.01	6760.57	402.62	6760.64	406.19	6760.78	413.3	6761.01	417.12	6761.22
418.1	6761.26	422.64	6761.76	422.91	6761.76	427.71	6761.95	432.51	6761.91
435.65	6761.96	438.02	6761.98	441.15	6761.92	447.42	6761.87	451.6	6761.72
456.83	6761.73	461.32	6761.67	463.1	6761.7	467.08	6761.71	470.68	6761.69
474.68	6761.75	477.73	6761.82	480.69	6761.91	482.47	6761.92	485.39	6762.16
489.27	6762.17	492.2	6762.22	497.7	6762.28	499.96	6762.17	502.7	6762.16
504.7	6762.25	507.73	6762.25	508.71	6762.23	512.59	6762.1	514.53	6762.08
519.71	6762.14	524.17	6762.1	527.71	6762.12	528.71	6762.07	532.71	6762.05
537.58	6761.95	538.81	6761.95	542.73	6761.9	547.72	6761.95	549.5	6761.92
552.72	6761.82	557.72	6761.83	562.72	6761.72	567.48	6761.79	571.61	6761.74
572.81	6761.71	577.8	6761.7	582.53	6761.8	587.74	6761.75	591.74	6761.66
597.1	6761.65	603.58	6761.56	606.81	6761.55	611.67	6761.49	613.61	6761.45
616.99	6761.44	617.75	6761.46	621.11	6761.46	625.75	6761.43	627.75	6761.43
632.76	6761.35	635.95	6761.35	637.9	6761.38	640.71	6761.32	642.77	6761.33
645.86	6761.16	649.55	6760.99	652.47	6760.88	653.08	6760.83	655.77	6760.51
657.77	6760.21	663.39	6759.56	667.77	6759.07	669.95	6759.02	672.68	6759
674.81	6758.88	677.72	6758.68	679.66	6758.65	682.99	6758.65	687.78	6758.48
689.78	6758.52	692.78	6758.55	697.15	6758.63	702.98	6758.88	704.79	6758.92
707.88	6758.93	713.75	6759.12	717.79	6759.38	722.79	6759.58	727.79	6759.56
728.43	6759.58	732.79	6759.84	733.79	6759.87	737.8	6759.88	738.8	6759.93
743.8	6760.13	747.8	6760.32	751.68	6760.45	760.88	6760.78	768.55	6761.02
769.8	6761.07	772.8	6761.15	780.3	6760.75	782.25	6760.66	782.36	6760.72
788.12	6760.32	792.04	6760.3	792.81	6760.32	796.93	6760.49	797.71	6760.46
800.85	6760.59	804.76	6760.7	806.72	6760.77	807.7	6760.78	811.61	6760.87
813.05	6760.85	815.81	6760.95	821.4	6761.11	822.25	6761.11	826.29	6761.22
827.82	6761.21	831.18	6760.78	832.82	6760.79	836.08	6760.58	840.82	6760.45
842.93	6760.47	845.78	6760.53	847.82	6760.67	850.76	6761.12	852.71	6760.99
855.65	6761.03	858.05	6760.99	860.83	6760.9	862.5	6760.88	865.44	6760.7
867.83	6760.69	870.83	6760.52	873.26	6760.45	875.22	6760.32	877.83	6760.35
880.11	6760.26	885.01	6760.42	887.72	6760.36	889.9	6760.36	894.88	6760.3
897.83	6760.14	902.62	6760.23	904.58	6760.21	907.84	6760.36	909.47	6760.28
912.84	6760.21	914.84	6760.31	917.84	6760.32	919.26	6760.26	922.84	6760.26
924.15	6760.22	928.07	6760.25	932.96	6760.24	937.84	6760.28	942.95	6760.3
944.7	6760.32	948.06	6760.32	949.85	6760.34	952.53	6760.31	956.85	6760.34
958.4	6760.33	968.19	6760.33	972.1	6760.39	983.5	6760.37	991.86	6760.3
998.18	6760.26	1001.25	6760.18	1002.27	6760.17	1007.33	6760.07	1012.23	6760.12
1018.1	6760.13	1021.71	6760.22	1027.89	6760.21	1031.8	6760.09	1032.87	6760.09
1036.69	6760.22	1039.1	6760.22	1042.87	6760.24	1046.87	6760.17	1047.87	6760.13
1052.87	6760.12	1056.27	6759.93	1060.18	6759.83	1065.88	6759.58	1070.94	6759.43
1072.85	6759.33	1075.92	6759.26	1077.8	6759.32	1080.73	6759.31	1082.69	6759.37
1085.62	6759.33	1088.56	6759.35	1090.52	6759.4	1092.88	6759.37	1095.41	6759.24
1097.88	6759.18	1099.45	6759.17	1102.88	6759.11	1105.2	6759.11	1107.89	6759.28
1110.09	6759.18	1112.89	6759.01	1114.98	6759.01	1116.94	6758.97	1119.9	6758.94
1122.81	6758.86	1124.77	6758.85	1127.89	6758.72	1132.89	6759.05	1134.55	6759.08
1137.89	6758.81	1140.36	6758.87	1142.89	6758.89	1144.34	6758.99	1147.9	6759.41
1149.23	6759.48	1152.63	6759.81	1155.11	6759.95	1158.77	6760.05	1163.88	6760.21
1168.81	6760.31	1171.74	6760.51	1173.7	6760.61	1176.64	6760.57	1178.59	6760.56
1182.9	6760.32	1184.9	6760.03	1185.9	6760.03	1187.91	6760.36	1188.91	6760.38
1192.91	6760.55	1198.17	6760.4	1198.66	6760.29	1199.68	6760.35	1203.06	6760.26
1207.87	6760.46	1209.81	6760.44	1216.91	6760.32	1217.07	6760.34	1220.14	6760.29
1223.21	6760.22	1227.92	6760.23	1231.44	6760.3	1233.44	6760.38	1237.31	6760.39
1241.92	6760.48	1243.18	6760.52	1247.92	6760.77	1252.97	6760.68	1257.99	6760.49
1259.01	6760.44	1267.92	6760.1	1272.93	6760.38	1277.42	6760.29	1280.49	6760.29
1284.58	6760.33	1287.93	6760.32	1289.7	6760.39	1292.76	6760.25	1294.81	6760.31
1297.98	6760.32	1298.9	6760.18	1299.92	6760.12	1301.97	6760.27	1302.99	6760.54
1304.83	6760.49	1307.93	6760.46	1309.94	6759.93	1310.94	6759.91	1311.68	6760.04
1312.94	6760.48	1315.6	6760.23	1318.33	6760.11	1320.49	6760.09	1322.94	6759.9
1323.94	6759.53	1325.39	6759.55	1327.94	6759.75	1330.28	6759.63	1332.94	6759.57
1335.17	6759.57	1338.11	6759.43	1340.06	6759.29	1342.88	6759.4	1344.64	6759.37
1349.3	6758.62	1350.37	6758.49	1351.44	6758.49	1353.57	6758.74	1359.97	6758.9
1363.74	6759.07	1365.3	6759.09	1368.77	6759.1	1371.89	6759.14	1374.9	6759.27
1378.16	6759.33	1383.43	6759.53	1385.56	6759.63	1388.76	6759.39	1389.82	6759.47
1390.89	6759.77	1395.46	6759.66	1396.02	6759.68	1399.13	6759.7	1401.55	6759.51
1404.75	6759.01	1405.82	6758.98	1406.81	6759.05	1407.95	6758.96	1410.8	6758.69

1412.21	6758.61	1414.7	6758.37	1418.53	6758.14	1421.41	6758.07	1423.26	6757.98
1423.73	6757.85	1425.42	6757.56	1426.37	6757.45	1427.11	6757.26	1428.21	6757.17
1430.06	6757.17	1433.31	6757.23	1434.53	6757.2	1438.54	6756.87	1439.96	6756.86
1445.68	6756.68	1447.6	6756.57	1449.79	6756.48	1453.59	6756.36	1456.6	6756.33
1458.52	6756.38	1461.46	6756.28	1466.63	6756	1468.64	6755.92	1472.72	6755.88
1473.65	6755.9	1474.66	6755.62	1475.66	6755.6	1478.67	6755.86	1483.64	6755.23
1488.36	6755.02	1493.72	6754.6	1494.56	6754.55	1498.74	6754.49	1500.03	6754.46
1503.75	6754.61	1505.07	6754.41	1506.58	6754.39	1508.76	6754.71	1509.7	6754.73
1513.79	6754.87	1517.5	6754.56	1518.98	6754.52	1523.82	6754.62	1526.24	6754.34
1527.83	6754.27	1528.84	6754.65	1532.9	6754.67	1538.25	6754.77	1540.32	6754.84
1543.71	6755.02	1548.67	6755.35	1549.91	6755.38	1553.92	6755.52	1554.63	6755.52
1558.94	6755.45	1560.09	6755.36	1563.95	6755.29	1565.55	6755.19	1569.09	6754.91
1571.01	6754.83	1573.98	6754.61	1576.48	6754.65	1579	6754.59	1581.87	6754.69

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6762.47	Weir Sta US (ft)	0.00
W.S. US. (ft)	6762.37	Weir Sta DS (ft)	1581.87
E.G. DS (ft)	6759.74	Min El Weir Flow (ft)	6754.27
W.S. DS (ft)	6758.99	Wr Top Wdth (ft)	1566.19
Q US (cfs)	993.80	Weir Max Depth (ft)	5.19
Q Leaving Total (cfs)	279.21	Weir Avg Depth (ft)	1.65
Q DS (cfs)	721.99	Weir Flow Area (sq ft)	2578.49
Perc Q Leaving	27.35	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	279.21	Weir Submerg	0.29
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			
Breach SSR (ft)			

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than

1.4. This may indicate the need for additional cross sections.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split RS: 998.3

INPUT

Description:

Station	Elevation	Data	num=	404					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6764.02	.05	6764.02	.48	6764.01	.61	6764.01	1.05	6764
1.47	6764	1.62	6763.99	2.05	6763.99	2.47	6763.98	2.62	6763.98
3.05	6763.97	3.47	6763.96	3.63	6763.96	4.05	6763.95	4.46	6763.93
4.63	6763.92	5.05	6763.91	5.46	6763.89	5.63	6763.88	6.05	6763.86
6.45	6763.84	6.64	6763.84	7.05	6763.82	7.45	6763.8	7.64	6763.79
8.05	6763.77	8.44	6763.75	8.65	6763.75	9.05	6763.73	9.44	6763.71
9.65	6763.71	10.05	6763.7	10.43	6763.69	10.66	6763.68	11.05	6763.67
11.43	6763.66	11.66	6763.66	12.05	6763.65	12.43	6763.64	12.67	6763.63
13.05	6763.62	13.42	6763.61	13.67	6763.61	14.05	6763.6	14.42	6763.59

14.67	6763.59	15.05	6763.58	15.41	6763.57	15.68	6763.57	16.05	6763.56
16.41	6763.56	16.68	6763.55	17.05	6763.55	17.4	6763.54	17.69	6763.54
18.05	6763.53	18.4	6763.52	18.69	6763.52	19.05	6763.51	19.4	6763.52
19.7	6763.5	20.05	6763.51	23.71	6763.51	24.05	6763.5	24.37	6763.49
24.72	6763.49	25.05	6763.47	25.37	6763.46	25.72	6763.45	25.91	6763.44
26.05	6763.44	26.37	6763.43	26.73	6763.42	27.05	6763.41	27.36	6763.4
27.73	6763.39	28.05	6763.38	28.36	6763.38	28.74	6763.36	29.05	6763.35
29.35	6763.17	29.74	6762.86	30.05	6762.67	30.35	6762.45	30.74	6762.17
30.89	6762.06	35.77	6761.52	36.05	6761.29	36.32	6760.66	36.77	6758.31
37.05	6757.67	37.32	6757.66	37.77	6757.62	38.05	6757.61	38.31	6757.59
38.78	6757.56	39.05	6757.54	39.31	6757.5	39.78	6757.38	40.05	6757.34
40.31	6757.29	40.79	6757.19	41.05	6757.13	41.3	6757.08	41.79	6756.98
42.05	6756.92	42.3	6756.87	42.8	6756.77	43.05	6756.71	43.29	6756.66
43.8	6756.56	44.05	6756.5	44.29	6756.41	44.81	6756.23	45.05	6756.14
45.28	6756.09	45.81	6755.95	46.05	6755.91	46.28	6755.95	46.81	6756.05
47.05	6756.1	47.28	6756.14	47.82	6756.25	48.05	6756.29	48.27	6756.32
48.82	6756.44	49.05	6756.47	49.27	6756.54	49.83	6756.71	50.05	6756.78
50.26	6756.85	50.83	6757.02	51.05	6757.09	51.26	6757.15	51.84	6757.33
52.05	6757.39	52.25	6757.45	52.84	6757.63	53.05	6757.7	53.25	6757.76
53.84	6757.94	54.05	6758.01	54.25	6758.03	54.85	6758.19	55.05	6758.21
55.24	6758.25	55.85	6758.39	56.05	6758.44	56.24	6758.48	56.86	6758.62
57.05	6758.66	57.23	6758.7	57.86	6758.85	58.05	6758.89	58.23	6758.93
58.87	6759.07	59.05	6759.11	59.22	6759.12	59.87	6759.11	64.2	6759.11
64.89	6759.13	65.2	6759.13	65.9	6759.15	66.05	6759.16	66.19	6759.16
66.9	6759.18	67.05	6759.18	67.19	6759.19	67.91	6759.21	68.18	6759.21
68.91	6759.23	69.05	6759.24	69.18	6759.24	69.91	6759.18	70.05	6759.18
70.18	6759.17	70.92	6759.13	71.05	6759.12	71.17	6759.11	71.92	6759.06
72.05	6759.06	72.17	6759.05	72.93	6759	73.05	6758.99	73.16	6758.98
73.93	6758.93	74.05	6758.93	74.16	6758.9	74.94	6758.71	75.05	6758.68
75.15	6758.67	75.94	6758.52	76.05	6758.51	76.15	6758.51	76.94	6758.55
77.05	6758.56	77.15	6758.55	77.95	6758.51	78.05	6758.5	78.14	6758.46
78.95	6758.63	79.05	6758.6	79.14	6758.62	79.42	6758.69	79.96	6758.82
80.05	6758.83	80.13	6758.84	80.96	6758.94	81.05	6758.95	81.13	6758.95
81.97	6758.93	82.05	6758.93	82.12	6758.95	82.97	6758.91	83.05	6758.92
83.12	6758.94	83.98	6758.9	84.05	6758.91	84.12	6758.9	84.98	6758.69
85.05	6758.68	85.11	6758.67	85.98	6758.46	86.05	6758.45	86.11	6758.43
86.99	6758.23	87.05	6758.21	87.1	6758.2	87.99	6757.99	88.05	6757.98
88.1	6757.97	89	6757.76	89.05	6757.75	89.09	6757.72	90	6757.6
90.05	6757.58	90.09	6757.57	91.01	6757.43	91.05	6757.43	91.09	6757.42
91.92	6757.3	92.01	6757.28	92.05	6757.28	92.08	6757.27	93.01	6757.13
93.08	6757.13	94.02	6756.98	94.07	6756.98	95.02	6757.15	95.07	6757.15
96.03	6757.32	96.06	6757.32	97.03	6757.49	97.05	6757.49	97.06	6757.5
98.04	6757.66	98.05	6757.67	98.06	6757.67	99.04	6757.84	99.05	6757.84
100.05	6757.92	100.25	6757.94	101.04	6758	101.05	6758	102.04	6758.08
102.05	6758.08	103.03	6758.16	103.06	6758.16	104.03	6758.24	104.06	6758.24
104.42	6758.17	105.03	6758.06	105.05	6758.05	105.07	6758.05	106.02	6757.88
106.05	6757.87	106.07	6757.87	107.02	6757.69	107.05	6757.69	107.08	6757.68
108.01	6757.51	108.05	6757.5	108.08	6757.5	109.01	6757.33	109.05	6757.32
109.08	6757.32	110	6757.28	110.05	6757.27	110.09	6757.27	111	6757.23
111.09	6757.23	112	6757.19	112.05	6757.18	112.1	6757.18	112.99	6757.14
113.05	6757.14	113.1	6757.13	113.99	6757.1	114.05	6757.09	114.11	6757.1
114.98	6757.22	115.05	6757.23	115.11	6757.24	115.98	6757.37	116.05	6757.37
116.12	6757.38	116.97	6757.51	117.05	6757.52	117.12	6757.53	117.97	6757.65
118.05	6757.66	118.12	6757.67	118.97	6757.79	119.05	6757.8	119.13	6757.83
119.96	6758.01	120.05	6758.05	120.13	6758.07	120.5	6758.15	120.96	6758.26
121.05	6758.28	121.14	6758.3	121.95	6758.49	122.05	6758.51	122.14	6758.53
122.95	6758.72	123.05	6758.74	123.15	6758.76	123.94	6758.95	124.05	6758.97
124.15	6758.98	124.94	6759.11	125.16	6759.13	125.93	6759.26	126.05	6759.27
126.16	6759.29	126.93	6759.41	127.05	6759.43	127.17	6759.45	127.92	6759.57
128.05	6759.59	128.17	6759.61	128.91	6759.72	129.05	6759.74	129.18	6759.76
129.91	6759.84	130.05	6759.86	130.18	6759.87	130.9	6759.95	131.05	6759.97
131.19	6759.99	131.9	6760.07	132.05	6760.09	132.2	6760.11	132.89	6760.18
133.05	6760.21	133.2	6760.22	133.89	6760.3	134.05	6760.32	134.21	6760.34
134.88	6760.47	135.05	6760.49	135.21	6760.49	135.88	6760.47	136.05	6760.48
136.22	6760.47	136.87	6760.47	137.05	6760.46	137.22	6760.46	137.87	6760.45
138.23	6760.45	138.86	6760.44	139.05	6760.44	139.23	6760.45	139.86	6760.49
140.05	6760.51	140.24	6760.52	140.85	6760.56	141.05	6760.58	141.24	6760.59
141.85	6760.63	142.05	6760.64	143.25	6760.64	143.84	6760.61	144.05	6760.61
144.26	6760.68	144.83	6760.89	145.05	6760.97	145.26	6761.03	145.83	6761.21
146.05	6761.28	146.27	6761.35	146.82	6761.53	147.05	6761.6	147.27	6761.67
147.82	6761.85	148.05	6761.92	148.28	6762	148.81	6762.17	149.05	6762.24

149.28 6762.28 149.81 6762.35 150.05 6762.38 168.41 6762.38

Manning's n Values num= 4
Sta n Val Sta n Val Sta n Val Sta n Val
0 .016 25.91 .025 35.77 .04 135.05 .038

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
35.77 135.05 145.25 145.76 145.25 .1 .3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 998.2

INPUT

Description:

Station Elevation Data num= 481

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.62	.88	6763.62	1.72	6763.6	1.8	6763.59	1.88	6763.59
2.71	6763.57	2.89	6763.57	3.71	6763.54	3.9	6763.54	4.7	6763.52
4.8	6763.52	4.9	6763.51	5.7	6763.49	5.8	6763.48	5.91	6763.48
6.69	6763.45	6.91	6763.45	7.68	6763.42	7.8	6763.41	7.92	6763.41
8.68	6763.38	8.8	6763.38	8.92	6763.37	9.67	6763.34	9.93	6763.34
10.67	6763.35	10.94	6763.35	11.66	6763.36	11.94	6763.36	12.66	6763.37
12.8	6763.38	12.95	6763.38	13.65	6763.39	13.95	6763.39	14.65	6763.4
14.8	6763.4	14.96	6763.39	15.64	6763.37	15.8	6763.36	15.96	6763.36
16.63	6763.33	16.8	6763.33	16.97	6763.32	17.63	6763.3	17.8	6763.3
17.98	6763.29	18.62	6763.27	18.8	6763.27	18.98	6763.26	19.62	6763.25
19.8	6763.24	19.99	6763.23	20.61	6763.22	20.8	6763.21	20.99	6763.21
21.61	6763.19	21.8	6763.18	22	6763.18	22.6	6763.17	22.8	6763.16
23	6763.16	23.6	6763.14	23.8	6763.14	24.01	6763.13	24.59	6763.12
24.8	6763.12	25.01	6763.11	25.58	6763.09	25.8	6763.08	26.02	6763.08
26.58	6763.06	26.8	6763.05	27.03	6763.05	27.57	6763.03	27.8	6763.02
28.03	6763.02	28.57	6763	28.8	6763	29.03	6762.99	29.04	6762.99
29.56	6762.97	29.8	6762.97	30.04	6762.96	30.56	6762.95	30.8	6762.95
31.05	6762.94	31.55	6762.93	31.8	6762.93	32.55	6762.9	32.8	6762.9
33.06	6762.89	33.54	6762.87	33.61	6762.87	33.8	6762.86	34.07	6762.85
34.53	6762.84	34.8	6762.83	35.07	6762.56	35.53	6762.1	35.8	6761.83
36.08	6761.56	36.52	6761.11	36.8	6760.84	37.08	6760.56	37.52	6760.13
37.8	6759.85	38.09	6759.57	38.51	6759.15	38.8	6758.86	39.09	6758.57
39.51	6758.17	39.8	6757.88	40.1	6757.83	40.5	6757.77	40.8	6757.72
41.11	6757.67	41.5	6757.61	41.8	6757.56	42.11	6757.51	42.49	6757.4
42.8	6757.35	43.12	6757.28	43.48	6757.2	43.8	6757.12	44.12	6757.05
44.48	6756.97	44.8	6756.89	45.13	6756.85	45.47	6756.8	45.8	6756.76
46.13	6756.72	46.47	6756.67	46.8	6756.63	47.14	6756.58	47.46	6756.57
47.8	6756.53	48.15	6756.5	48.46	6756.48	48.8	6756.45	49.15	6756.42
49.45	6756.4	49.8	6756.37	50.16	6756.3	50.44	6756.25	50.8	6756.18
51.16	6756.12	51.44	6756.14	51.8	6756.07	52.17	6756.06	52.43	6756.1
52.8	6756.09	53.17	6756.11	53.43	6756.12	53.8	6756.14	54.18	6756.34
54.42	6756.37	54.8	6756.57	55.19	6756.75	55.42	6756.85	55.8	6757.02
56.19	6757.2	56.41	6757.3	56.8	6757.47	57.2	6757.65	57.41	6757.76
57.8	6757.94	58.2	6758.12	58.4	6758.22	58.8	6758.41	59.21	6758.6
59.39	6758.68	59.8	6758.87	60.8	6758.87	61.22	6758.86	62.23	6758.86
62.38	6758.84	62.8	6758.84	63.23	6758.82	63.37	6758.82	63.8	6758.8
64.24	6758.79	64.37	6758.79	64.8	6758.77	65.24	6758.76	65.36	6758.75
65.8	6758.73	66.25	6758.72	66.36	6758.71	66.8	6758.7	67.25	6758.68
67.35	6758.67	67.8	6758.65	68.26	6758.63	68.34	6758.62	68.8	6758.6
69.26	6758.57	69.34	6758.57	69.8	6758.55	70.27	6758.54	72.28	6758.54
72.32	6758.55	72.8	6758.55	73.29	6758.56	73.32	6758.56	73.8	6758.57
74.29	6758.58	74.31	6758.58	74.8	6758.59	75.3	6758.58	75.31	6758.58
75.8	6758.57	76.3	6758.56	76.8	6758.56	77.29	6758.5	77.31	6758.55
77.8	6758.49	78.29	6758.44	78.32	6758.43	78.8	6758.38	79.28	6758.32
79.32	6758.31	79.8	6758.26	80.18	6758.19	80.28	6758.17	80.33	6758.17
80.8	6758.08	81.27	6758	81.33	6757.99	81.8	6757.9	82.27	6757.8
82.34	6757.81	82.8	6757.7	83.26	6757.59	83.34	6757.58	83.8	6757.47
84.26	6757.36	84.35	6757.34	84.8	6757.24	85.25	6757.09	85.36	6757.05
85.8	6756.91	86.24	6756.76	86.36	6756.73	86.8	6756.58	87.24	6756.44
87.37	6756.4	87.8	6756.26	88.23	6756.12	88.37	6756.1	88.8	6755.96
89.23	6755.79	89.38	6755.79	89.8	6755.63	90.22	6755.49	90.38	6755.25
90.8	6755.11	91.22	6755.01	91.39	6754.97	91.8	6754.87	92.21	6754.78

92.4	6754.76	92.68	6754.69	92.8	6754.67	93.2	6754.57	93.4	6754.62
93.8	6754.53	94.2	6754.47	94.41	6754.48	94.8	6754.43	95.19	6754.48
95.41	6754.38	95.8	6754.43	96.19	6754.49	96.42	6754.46	96.8	6754.52
97.18	6754.58	97.21	6754.59	97.42	6754.62	97.8	6754.69	98.18	6754.75
98.43	6754.79	98.8	6754.85	99.17	6755	99.44	6755.19	99.8	6755.34
99.85	6755.34	100.19	6755.39	100.41	6755.41	100.8	6755.46	101.25	6755.52
101.35	6755.53	101.81	6755.59	102.3	6755.65	102.32	6755.69	102.81	6755.76
103.24	6755.85	103.39	6755.88	103.81	6755.97	104.19	6756.05	104.45	6756.11
104.81	6756.19	105.13	6756.16	105.18	6756.16	105.52	6756.14	105.81	6756.12
106.08	6756.1	106.58	6756.06	106.82	6756.05	107.02	6756.09	107.65	6756
107.82	6756.03	107.97	6756.08	108.71	6756.52	108.82	6756.56	108.91	6756.61
109.78	6757.14	109.82	6757.17	109.86	6757.18	110.14	6757.22	110.78	6757.33
110.82	6757.33	110.86	6757.34	111.76	6757.48	111.82	6757.49	111.89	6757.5
112.73	6757.67	112.82	6757.69	112.92	6757.71	113.71	6757.86	113.82	6757.89
113.94	6757.91	114.68	6758.06	114.82	6758.08	114.97	6758.11	114.98	6758.11
115.67	6758.24	115.82	6758.27	115.98	6758.3	116.66	6758.43	116.82	6758.46
116.98	6758.49	117.66	6758.6	117.82	6758.63	117.99	6758.66	118.65	6758.77
118.82	6758.8	119	6758.83	119.65	6758.94	119.82	6758.97	120	6758.99
120.64	6759.06	120.82	6759.08	121.01	6759.1	121.63	6759.17	121.82	6759.19
122.01	6759.21	122.63	6759.28	122.82	6759.3	123.02	6759.32	123.62	6759.37
123.82	6759.39	124.03	6759.41	124.62	6759.46	124.82	6759.48	125.03	6759.49
125.61	6759.52	125.82	6759.53	126.04	6759.54	126.6	6759.57	126.82	6759.58
127.05	6759.59	127.6	6759.63	127.82	6759.64	128.05	6759.65	128.59	6759.69
128.82	6759.7	129.06	6759.72	129.59	6759.75	129.82	6759.76	130.06	6759.78
130.58	6759.82	130.82	6759.84	131.07	6759.86	131.57	6759.89	131.82	6759.91
132.08	6759.93	132.57	6759.95	132.82	6759.97	133.08	6759.98	133.56	6760
133.82	6760.01	134.09	6760.02	134.56	6760.05	134.82	6760.06	135.09	6760.07
135.55	6760.1	135.82	6760.11	136.1	6760.12	136.54	6760.15	136.82	6760.16
137.11	6760.18	137.54	6760.22	137.82	6760.23	138.11	6760.26	138.53	6760.29
138.82	6760.31	139.12	6760.34	139.53	6760.37	139.82	6760.39	140.12	6760.4
140.52	6760.42	140.82	6760.43	141.13	6760.44	141.51	6760.45	141.82	6760.46
142.14	6760.47	142.51	6760.47	142.82	6760.48	143.5	6760.48	143.82	6760.49
144.5	6760.49	144.82	6760.5	145.15	6760.52	145.49	6760.53	145.82	6760.55
146.16	6760.57	146.48	6760.59	146.82	6760.61	147.17	6760.62	147.48	6760.63
147.82	6760.65	148.17	6760.69	148.47	6760.72	148.82	6760.76	149.18	6760.91
149.47	6761.05	149.82	6761.2	150.19	6761.37	150.46	6761.5	150.82	6761.68
151.19	6761.74	151.45	6761.71	151.82	6761.78	152.2	6761.8	152.45	6761.81
152.82	6761.82	153.2	6761.84	153.44	6761.85	153.82	6761.86	154.21	6761.88
154.44	6761.89	154.82	6761.9	155.22	6761.92	155.43	6761.93	155.82	6761.94
156.22	6761.96	156.42	6761.97	156.82	6761.98	157.23	6762	157.42	6762
157.82	6762.02	158.23	6762.04	158.41	6762.04	158.82	6762.06	159.24	6762.08
159.41	6762.08	159.82	6762.1	160.25	6762.12	160.4	6762.12	160.82	6762.14
161.25	6762.16	161.39	6762.16	161.82	6762.18	162.26	6762.2	162.39	6762.2
162.82	6762.22	163.26	6762.22	163.38	6762.24	164.27	6762.24	164.38	6762.27
174.15	6762.27								

Manning's n Values			num=	3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.016	34.8	.04	135.55	.038

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	37.52	135.55		164.57	165.08	164.57		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 998

INPUT									
Description:									
Station	Elevation	Data	num=	423					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.15	.6	6763.15	.6	6763.1	.94	6763.1	1.19	6763.11
1.7	6763.12	2.94	6763.12	3.19	6763.11	3.7	6763.09	3.94	6763.09
4.19	6763.07	4.7	6763.04	4.94	6763.03	5.19	6763.01	5.7	6763
5.94	6762.99	6.7	6762.99	6.94	6763	7.19	6763	7.7	6763.01
8.19	6763.01	8.7	6763.02	9.18	6763.02	9.7	6763.03	11.18	6763.03
11.7	6763.01	11.94	6763	12.18	6762.99	12.7	6762.98	12.94	6762.97
13.18	6762.96	13.7	6762.95	13.94	6762.94	14.18	6762.93	14.7	6762.91
14.94	6762.91	15.18	6762.9	15.7	6762.89	15.94	6762.88	16.18	6762.88

16.7	6762.87	17.94	6762.87	18.18	6762.86	19.94	6762.86	20.18	6762.85
20.94	6762.85	21.18	6762.84	21.7	6762.83	21.94	6762.83	22.18	6762.82
22.7	6762.81	22.94	6762.8	23.18	6762.8	23.7	6762.78	23.94	6762.78
24.18	6762.77	24.7	6762.76	24.94	6762.75	25.18	6762.75	25.7	6762.73
26.18	6762.73	26.7	6762.72	27.18	6762.72	27.7	6762.71	28.7	6762.71
28.94	6762.7	29.94	6762.7	30.18	6762.69	30.7	6762.68	30.94	6762.68
31.18	6762.67	31.7	6762.65	31.94	6762.65	32.18	6762.64	32.7	6762.62
32.94	6762.61	33.18	6762.6	33.7	6762.58	33.94	6762.58	34.18	6762.57
34.7	6762.55	34.94	6762.54	35.18	6762.53	35.71	6762.52	35.94	6762.51
36.18	6762.39	36.71	6762.14	36.94	6762.03	37.18	6761.92	37.71	6761.67
37.94	6761.55	38.18	6761.44	38.71	6761.19	38.94	6761.08	39.18	6760.96
39.71	6760.72	39.94	6760.6	40.18	6760.49	40.71	6760.28	40.94	6760.17
41.18	6760.01	41.71	6759.67	41.94	6759.51	42.18	6759.36	42.71	6759.02
42.94	6758.86	43.18	6758.71	43.71	6758.36	43.94	6758.21	44.18	6758.05
44.71	6757.71	44.94	6757.55	45.18	6757.4	45.71	6757.01	45.94	6756.86
46.18	6756.81	46.71	6756.69	46.94	6756.64	47.18	6756.59	47.71	6756.48
47.94	6756.43	48.18	6756.37	48.71	6756.26	48.94	6756.21	49.18	6756.16
49.71	6756.04	49.94	6755.99	50.18	6755.94	50.71	6755.8	50.94	6755.75
51.18	6755.73	51.71	6755.54	51.94	6755.52	52.18	6755.5	52.71	6755.31
52.94	6755.29	53.18	6755.27	53.71	6755.2	53.94	6755.18	54.18	6755.16
54.71	6755.11	54.94	6755.09	55.18	6755.07	55.71	6755.37	55.94	6755.34
56.18	6755.45	56.71	6755.59	56.94	6755.7	57.18	6755.81	57.71	6756.05
57.94	6756.16	58.18	6756.26	58.71	6756.51	58.94	6756.61	59.18	6756.72
59.71	6756.97	59.94	6757.07	60.18	6757.18	60.71	6757.53	60.94	6757.64
61.18	6757.68	61.71	6757.77	61.94	6757.81	62.18	6757.85	62.71	6757.93
62.94	6757.97	63.18	6758.01	63.71	6758.1	63.94	6758.14	64.18	6758.18
64.71	6758.26	64.94	6758.3	65.18	6758.34	65.71	6758.39	65.94	6758.43
66.18	6758.43	66.71	6758.26	67.18	6758.26	67.94	6758.25	68.94	6758.25
69.18	6758.24	70.18	6758.24	70.71	6758.38	71.18	6758.38	71.71	6758.39
71.94	6758.39	72.18	6758.4	72.71	6758.41	72.94	6758.41	73.18	6758.42
73.71	6758.42	73.94	6758.43	74.18	6758.43	74.71	6758.44	74.94	6758.45
75.18	6758.45	75.71	6758.46	75.94	6758.47	77.18	6758.47	77.71	6758.48
78.18	6758.48	78.71	6758.49	79.94	6758.49	80.18	6758.5	80.71	6758.53
80.94	6758.53	81.18	6758.51	81.71	6758.44	81.94	6758.42	82.18	6758.39
82.71	6758.33	82.94	6758.3	83.18	6758.27	83.71	6758.21	83.94	6758.19
84.18	6758.16	84.71	6758.1	84.94	6758.07	85.18	6758.04	85.37	6758.01
85.71	6757.95	85.94	6757.92	86.18	6757.82	86.71	6757.61	86.94	6757.52
87.18	6757.42	87.71	6757.21	87.94	6757.11	88.17	6757.02	88.71	6756.8
88.94	6756.71	89.17	6756.62	89.71	6756.4	89.94	6756.31	90.17	6756.21
90.71	6756.03	90.94	6755.93	91.17	6755.88	91.71	6755.77	91.94	6755.72
92.17	6755.67	92.71	6755.56	92.94	6755.51	93.17	6755.46	93.71	6755.34
93.94	6755.29	94.17	6755.24	94.71	6755.13	94.94	6755.08	95.17	6755.03
95.71	6754.91	95.94	6754.86	96.17	6754.86	96.71	6754.87	97.87	6754.87
98.17	6754.87	98.71	6754.88	99.94	6754.88	100.17	6754.89	100.71	6754.87
100.94	6754.87	101.17	6754.89	101.71	6754.93	101.94	6754.94	102.17	6754.96
102.71	6755	102.94	6755.02	103.17	6755.03	103.71	6755.07	103.94	6755.09
104.17	6755.1	104.71	6755.14	104.94	6755.16	105.17	6755.18	105.71	6755.22
105.94	6755.24	106.17	6755.29	106.71	6755.41	106.94	6755.46	107.17	6755.51
107.71	6755.63	107.94	6755.68	108.17	6755.73	108.71	6755.85	108.94	6755.9
109.17	6755.95	109.71	6756.07	109.94	6756.12	110.17	6756.17	110.37	6756.23
110.71	6756.32	110.94	6756.37	111.17	6756.47	111.71	6756.69	111.94	6756.79
112.17	6756.88	112.71	6757.11	112.94	6757.21	113.17	6757.3	113.71	6757.53
113.94	6757.63	114.17	6757.72	114.72	6757.95	114.94	6758.05	115.17	6758.14
115.44	6758.23	115.72	6758.32	115.94	6758.41	116.17	6758.45	116.72	6758.55
116.94	6758.6	117.17	6758.64	117.72	6758.74	117.94	6758.78	118.17	6758.82
118.72	6758.92	118.94	6758.97	119.17	6759.01	119.72	6759.11	119.94	6759.15
120.17	6759.19	120.72	6759.3	120.94	6759.35	121.17	6759.36	121.72	6759.43
121.94	6759.44	122.17	6759.46	122.72	6759.49	122.94	6759.5	123.17	6759.52
123.72	6759.55	123.94	6759.57	124.17	6759.58	124.72	6759.61	124.94	6759.63
125.17	6759.64	125.72	6759.68	125.94	6759.69	126.17	6759.69	126.72	6759.7
128.17	6759.7	128.72	6759.71	129.72	6759.71	129.94	6759.72	130.94	6759.72
131.17	6759.73	131.72	6759.75	131.94	6759.76	132.17	6759.77	132.72	6759.79
132.94	6759.8	133.17	6759.81	133.72	6759.83	133.94	6759.84	134.17	6759.85
134.72	6759.87	134.94	6759.88	135.17	6759.88	135.72	6759.91	135.94	6759.92
136.17	6759.93	136.72	6759.96	136.94	6759.97	137.17	6759.98	137.72	6760.01
137.94	6760.02	138.17	6760.03	138.72	6760.06	138.94	6760.07	139.17	6760.09
139.72	6760.11	139.94	6760.13	140.17	6760.14	140.72	6760.16	140.94	6760.17
141.17	6760.17	141.72	6760.16	141.94	6760.16	142.17	6760.15	142.72	6760.15
142.94	6760.14	143.17	6760.14	143.72	6760.13	144.17	6760.13	144.72	6760.12
144.94	6760.12	145.17	6760.11	145.72	6760.1	145.94	6760.1	146.17	6760.09
146.72	6760.08	146.94	6760.07	147.17	6760.07	147.72	6760.05	147.94	6760.04

148.17	6760.04	148.72	6760.02	148.94	6760.02	149.17	6760.01	149.72	6759.99
149.94	6759.99	150.17	6759.98	150.72	6759.98	150.94	6759.97	151.17	6759.98
151.72	6759.99	151.94	6760	152.17	6760.01	152.72	6760.03	152.94	6760.03
153.17	6760.04	153.72	6760.06	153.94	6760.06	154.17	6760.18	154.67	6760.46
155.44	6760.5	158.84	6760.61	161.93	6760.87	171.8	6761.74	174.43	6761.95
176.59	6762.02	183.88	6762.02	185.75	6762.02				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	44.18	.04	115.44	.038

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	44.18	115.44		117.79 106.55	117.79		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 997.8

INPUT

Description:

Station	Elevation	Data	num=	460					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6762.71	.08	6762.71	.68	6762.69	.89	6762.69	1.09	6762.68
1.67	6762.66	1.89	6762.66	2.1	6762.65	2.67	6762.63	2.89	6762.63
3.11	6762.62	3.66	6762.6	3.89	6762.6	4.12	6762.59	4.65	6762.57
4.89	6762.57	5.13	6762.56	5.64	6762.55	5.89	6762.55	6.13	6762.54
6.63	6762.53	6.89	6762.53	7.14	6762.52	7.62	6762.51	7.89	6762.5
8.15	6762.5	8.62	6762.49	8.89	6762.48	9.61	6762.48	9.89	6762.47
10.17	6762.47	10.6	6762.44	10.89	6762.44	11.18	6762.43	11.59	6762.42
11.89	6762.41	12.19	6762.4	12.58	6762.4	12.89	6762.39	13.19	6762.38
13.57	6762.37	13.89	6762.36	14.2	6762.35	14.57	6762.35	14.89	6762.34
15.56	6762.34	15.89	6762.35	16.22	6762.35	16.55	6762.36	17.23	6762.36
17.54	6762.37	17.89	6762.37	18.24	6762.38	18.53	6762.38	18.89	6762.39
19.52	6762.39	19.89	6762.4	20.25	6762.38	20.52	6762.37	20.89	6762.35
21.26	6762.33	21.51	6762.32	21.89	6762.3	22.27	6762.27	22.5	6762.26
22.89	6762.24	23.28	6762.22	23.49	6762.21	23.89	6762.19	24.29	6762.17
24.48	6762.15	24.89	6762.13	25.3	6762.13	25.47	6762.07	25.89	6762.07
26.31	6762.06	27.46	6762.06	27.89	6762.05	28.89	6762.05	29.33	6762.04
29.44	6762.08	29.89	6762.07	30.34	6761.63	30.43	6761.84	30.55	6761.72
30.89	6761.39	31.35	6760.94	31.42	6760.87	32.36	6759.95	32.41	6759.9
32.89	6759.44	33.37	6758.97	33.41	6758.93	33.89	6758.46	34.37	6757.98
34.4	6757.7	34.89	6757.22	35.38	6757.08	35.39	6756.94	35.89	6756.8
36.38	6756.52	36.39	6756.65	36.89	6756.37	37.37	6756.19	37.4	6756.23
37.89	6756.05	38.36	6755.93	38.41	6755.9	38.89	6755.78	39.36	6755.7
39.42	6755.63	39.89	6755.55	40.35	6755.46	40.43	6755.45	40.89	6755.36
41.34	6755.27	41.44	6755.25	41.89	6755.17	42.33	6755.09	42.44	6755.06
42.89	6754.98	43.05	6754.95	43.32	6754.91	43.45	6754.87	43.89	6754.8
44.31	6754.73	44.46	6754.69	44.89	6754.62	45.31	6754.57	45.47	6754.57
45.89	6754.52	46.3	6754.49	46.48	6754.48	46.89	6754.44	47.29	6754.86
47.49	6754.39	47.89	6754.81	48.28	6755.19	48.5	6755.37	48.89	6755.75
49.27	6756.06	49.5	6756.69	49.89	6757	50.26	6757.06	50.51	6757.05
50.89	6757.1	51.26	6757.13	51.52	6757.15	51.89	6757.18	52.25	6757.2
52.53	6757.23	52.89	6757.25	53.24	6757.28	53.54	6757.3	53.89	6757.33
54.23	6757.35	54.55	6757.38	54.89	6757.4	55.22	6757.38	55.55	6757.4
55.56	6757.4	55.89	6757.37	56.89	6757.37	57.25	6757.36	58.5	6757.36
58.89	6757.35	59.89	6757.35	60.3	6757.33	60.47	6757.34	60.89	6757.33
61.32	6757.32	61.89	6757.32	62.34	6757.31	62.89	6757.31	63.35	6757.3
63.89	6757.3	64.37	6757.29	64.89	6757.29	65.39	6757.28	65.39	6757.22
65.89	6757.21	66.37	6757.21	66.41	6757.14	66.89	6757.14	67.35	6757.13
67.43	6757.1	67.89	6757.1	68.34	6757.09	68.44	6757.09	68.89	6757.08
69.46	6757.08	69.89	6757.07	70.3	6757.02	70.48	6757	70.89	6756.96
71.29	6756.91	71.5	6756.89	71.89	6756.84	72.27	6756.79	72.51	6756.79
72.89	6756.75	73.25	6756.71	73.53	6756.76	73.89	6756.72	74.24	6756.68
74.55	6756.73	74.89	6756.69	75.22	6756.67	75.57	6756.65	75.89	6756.63
76.2	6756.61	76.58	6756.59	76.89	6756.57	77.19	6756.55	77.6	6756.53
77.89	6756.51	78.17	6756.49	78.62	6756.47	78.89	6756.45	79.15	6756.43
79.64	6756.46	79.89	6756.44	80.14	6756.38	80.66	6756.32	80.89	6756.26
81.12	6756.2	81.67	6756.05	81.89	6755.99	82.1	6755.94	82.69	6755.78
82.89	6755.73	83.08	6755.68	83.71	6755.52	83.89	6755.47	84.07	6755.42

Station Elevation Data		num=		415					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.85	.01	6761.85	.82	6761.82	.93	6761.82	1.04	6761.83
1.78	6761.93	1.93	6761.95	2.08	6761.94	2.75	6761.93	2.93	6761.92
3.12	6761.92	3.72	6761.9	3.93	6761.9	4.16	6761.89	4.68	6761.88
4.93	6761.88	5.19	6761.87	5.65	6761.86	5.93	6761.85	6.23	6761.85
6.61	6761.84	6.93	6761.83	7.27	6761.83	7.58	6761.82	8.31	6761.82
8.56	6761.81	9.35	6761.81	9.52	6761.8	10.49	6761.8	10.94	6761.79
11.94	6761.79	12.42	6761.77	12.46	6761.76	12.94	6761.74	13.39	6761.72
13.5	6761.72	13.94	6761.69	14.36	6761.67	14.54	6761.67	14.94	6761.65

15.32	6761.64	15.58	6761.63	15.95	6761.62	16.29	6761.61	16.61	6761.6
16.95	6761.59	17.26	6761.59	17.65	6761.58	18.69	6761.58	18.95	6761.57
19.19	6761.57	19.72	6761.55	19.95	6761.55	20.16	6761.54	20.76	6761.52
20.95	6761.52	21.12	6761.51	21.8	6761.49	21.95	6761.49	22.09	6761.48
22.84	6761.43	22.95	6761.42	23.06	6761.41	23.88	6761.35	23.96	6761.35
24.03	6761.34	24.92	6761.28	24.96	6761.28	25	6761.27	25.51	6761.23
25.53	6761.23	25.96	6761.2	26.06	6761.2	26.93	6761.13	27	6761.13
27.9	6761.06	27.96	6761.06	28.03	6761.05	28.86	6761	28.96	6760.99
29.07	6760.98	29.83	6760.93	29.96	6760.92	30.11	6760.91	30.8	6760.86
30.96	6760.85	31.14	6760.83	31.76	6760.79	31.97	6760.78	32.18	6760.77
32.73	6760.74	32.97	6760.73	33.22	6760.72	33.7	6760.7	33.97	6760.68
34.26	6760.67	34.53	6760.65	34.66	6760.64	34.97	6760.62	35.29	6760.6
35.63	6760.58	35.97	6760.56	36.33	6760.54	36.6	6760.52	36.97	6760.5
37.37	6760.44	37.56	6760.41	37.97	6760.36	38.4	6760.3	38.53	6760.28
38.97	6760.22	39.45	6760.15	39.51	6760.15	39.95	6760.08	39.98	6760.08
40	6760.08	40.03	6760.08	40.47	6760.04	40.49	6760.01	40.98	6759.97
41.44	6759.94	41.53	6759.92	41.98	6759.89	42.41	6759.72	42.56	6759.63
42.98	6759.46	43.37	6759.26	43.6	6759.15	43.98	6758.95	44.34	6758.78
44.64	6758.62	44.98	6758.45	45.31	6758.4	45.68	6758.1	45.98	6758.05
46.27	6758	46.71	6757.92	46.98	6757.87	47.04	6757.82	47.24	6757.65
47.75	6757.2	47.99	6757	48.2	6756.81	48.79	6756.48	48.99	6756.31
49.17	6756.19	49.82	6755.78	49.99	6755.67	50.14	6755.58	50.86	6755.12
50.99	6755.04	51.1	6754.96	51.9	6754.46	51.99	6754.4	52.07	6754.36
52.94	6754.07	52.99	6754.04	53.04	6754.03	53.83	6754.01	53.97	6754.01
53.99	6754	54	6754	54.42	6753.99	54.98	6753.98	55.02	6753.98
55.95	6753.95	56.06	6753.95	56.23	6754.07	56.93	6754.55	57	6754.55
57.07	6754.6	57.93	6754.97	58	6755.02	58.07	6755.08	58.93	6755.7
59	6755.76	59.08	6755.81	59.55	6756.16	59.62	6756.21	59.92	6756.43
60	6756.49	60.09	6756.55	60.89	6757.14	61	6757.22	61.11	6757.3
61.87	6757.85	62	6757.94	62.14	6758	62.85	6758.23	63	6758.29
63.16	6758.36	63.83	6758.65	64	6758.73	64.18	6758.81	64.81	6759.08
65	6759.17	65.2	6759.26	65.79	6759.51	66	6759.61	66.23	6759.7
66.24	6759.7	66.76	6759.82	66.96	6759.91	67	6759.93	67.25	6759.95
67.74	6759.95	68	6759.97	68.27	6759.99	68.72	6760.03	69	6760.05
69.3	6760.07	69.7	6760.1	70	6760.12	70.32	6760.15	70.69	6760.17
71.01	6760.2	71.35	6760.22	71.67	6760.25	72.01	6760.27	73.01	6760.27
73.4	6760.26	77.01	6760.26	77.49	6760.39	77.54	6760.28	78.02	6760.41
78.51	6760.54	79.02	6760.68	79.49	6760.8	79.54	6760.82	80.02	6760.94
80.47	6761.07	80.56	6761.09	81.02	6761.21	81.45	6761.33	81.58	6761.36
82.02	6761.48	82.43	6761.5	82.61	6761.43	83.02	6761.46	83.41	6761.42
83.63	6761.41	84.02	6761.37	84.39	6761.34	84.65	6761.32	85.02	6761.29
85.36	6761.26	85.68	6761.24	86.02	6761.21	86.34	6761.18	86.71	6761.15
87.03	6761.13	87.33	6761.1	87.73	6761.04	88.03	6761.02	88.31	6760.98
88.76	6760.93	89.03	6760.89	89.29	6760.86	89.78	6760.8	90.03	6760.77
90.27	6760.74	90.8	6760.67	91.03	6760.64	91.24	6760.61	91.83	6760.54
92.03	6760.52	92.22	6760.51	92.85	6760.46	93.03	6760.46	93.2	6760.45
93.87	6760.4	94.03	6760.39	94.18	6760.38	94.9	6760.34	95.03	6760.33
95.16	6760.32	95.92	6760.27	96.03	6760.27	96.14	6760.26	96.94	6760.21
97.03	6760.2	97.11	6760.2	97.96	6760.19	98.03	6760.18	98.09	6760.18
98.99	6760.17	99.07	6760.17	100.01	6760.16	100.05	6760.16	100.89	6760.14
101.03	6760.14	102.01	6760.13	102.07	6760.13	102.99	6760.12	103.09	6760.12
103.97	6760.11	104.11	6760.11	104.95	6760.1	105.14	6760.1	105.93	6760.09
106.04	6760.09	106.16	6760.08	106.91	6760.08	107.04	6760.07	107.18	6760.07
107.89	6760	108.04	6760	108.21	6759.98	108.86	6759.93	109.04	6759.91
109.23	6759.9	109.84	6759.84	110.04	6759.82	110.25	6759.81	110.82	6759.76
111.04	6759.74	111.28	6759.72	111.8	6759.67	112.04	6759.65	112.3	6759.66
112.78	6759.67	113.04	6759.67	113.32	6759.68	113.76	6759.68	114.04	6759.69
114.34	6759.7	114.74	6759.7	115.04	6759.71	115.37	6759.72	115.71	6759.72
116.04	6759.73	116.39	6759.73	116.69	6759.74	117.41	6759.74	117.67	6759.73
118.06	6759.73	118.45	6759.72	119.06	6759.72	119.47	6759.71	119.64	6759.71
120.06	6759.7	120.62	6759.7	121.06	6759.69	121.52	6759.67	121.59	6759.68
122.06	6759.66	122.54	6759.65	122.57	6759.65	123.06	6759.64	123.55	6759.63
123.56	6759.63	124.06	6759.62	124.53	6759.61	124.59	6759.6	125.06	6759.59
125.51	6759.58	125.61	6759.58	126.06	6759.57	126.49	6759.56	126.63	6759.56
127.06	6759.55	127.46	6759.56	127.66	6759.56	128.06	6759.57	128.44	6759.58
128.68	6759.59	129.06	6759.6	129.42	6759.6	129.7	6759.61	130.06	6759.62
130.4	6759.63	130.72	6759.63	131.06	6759.64	131.38	6759.65	131.75	6759.67
132.06	6759.68	132.36	6759.68	132.77	6759.67	133.33	6759.67	133.8	6759.66
134.83	6759.66	135.07	6759.65	135.85	6759.65	136.07	6759.64	136.28	6759.64
136.87	6759.63	137.9	6759.63	138.07	6759.64	138.24	6759.64	138.92	6759.65
139.21	6759.65	139.94	6759.66	140.19	6759.66	140.97	6759.67	141.17	6759.67

141.99	6759.68	142.15	6759.68	143.01	6759.72	143.13	6759.72	144.03	6759.76
144.11	6759.76	145.06	6759.81	145.09	6759.81	145.68	6759.83	146.06	6759.85
146.08	6759.85	147.04	6759.9	147.07	6759.91	147.1	6759.91	148.02	6759.92
149.07	6759.92	149.16	6759.93	150.18	6759.93	150.97	6759.94	153.67	6759.94

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	25.51	.025	40	.035	66.96	.016

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	39.95	66.96		76.24 76.23	76.24		.3	.5

CULVERT

RIVER: Walton Creek
 REACH: lower-split RS: 996.45

INPUT

Description: Holiday Inn 72IN CMP
 Distance from Upstream XS = 10
 Deck/Roadway Width = 36
 Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 69														
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-7.18	6761.79		0	-7.06	6761.76		0	-6.89	6761.77				0	
-6.88	6761.77		0	-2.12	6761.72		0	-1.88	6761.71				0	
2.9	6761.82		0	3.12	6761.83		0	7.92	6761.62				0	
8.12	6761.61		0	12.94	6761.54		0	13.12	6761.53				0	
17.97	6761.49		0	18.12	6761.49		0	22.99	6761.28				0	
23.12	6761.27		0	28.01	6761.21		0	28.12	6761.21				0	
28.22	6761.21		0	33.12	6761.03		0	38.05	6760.85				0	
38.12	6760.85		0	43.07	6760.49		0	43.12	6760.49				0	
48.09	6760.55		0	48.12	6760.55		0	53.12	6760.33				0	
53.29	6760.32		0	58.12	6760.2		0	58.14	6760.2				0	
63.12	6760.28		0	63.16	6760.28		0	68.12	6760.27				0	
68.18	6760.27		0	73.12	6760.02		0	73.2	6760.02				0	
78.12	6760.09		0	78.22	6760.09		0	83.12	6760				0	
83.25	6760		0	88.12	6759.89		0	88.27	6759.89				0	
93.12	6759.82		0	93.29	6759.82		0	98.12	6759.92				0	
102.91	6759.78		0	103.12	6759.78		0	103.33	6759.77				0	
108.12	6759.77		0	108.35	6759.77		0	113.12	6759.83				0	
113.37	6759.83		0	118.12	6759.77		0	118.4	6759.77				0	
123.12	6759.81		0	123.42	6759.82		0	128.12	6759.93				0	
128.44	6759.94		0	133.12	6760.1		0	133.46	6760.09				0	
138.12	6760.04		0	138.48	6760.05		0	143.12	6760.2				0	
143.5	6760.21		0	148.12	6760.32		0	148.44	6760.32				0	
148.53	6760.32		0	152.1	6760.24		0	152.81	6760.22				0	

Upstream Bridge Cross Section Data

Station Elevation Data		num= 415							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.85	.01	6761.85	.82	6761.82	.93	6761.82	1.04	6761.83
1.78	6761.93	1.93	6761.95	2.08	6761.94	2.75	6761.93	2.93	6761.92
3.12	6761.92	3.72	6761.9	3.93	6761.9	4.16	6761.89	4.68	6761.88
4.93	6761.88	5.19	6761.87	5.65	6761.86	5.93	6761.85	6.23	6761.85
6.61	6761.84	6.93	6761.83	7.27	6761.83	7.58	6761.82	8.31	6761.82
8.56	6761.81	9.35	6761.81	9.52	6761.8	10.49	6761.8	10.94	6761.79
11.94	6761.79	12.42	6761.77	12.46	6761.76	12.94	6761.74	13.39	6761.72
13.5	6761.72	13.94	6761.69	14.36	6761.67	14.54	6761.67	14.94	6761.65
15.32	6761.64	15.58	6761.63	15.95	6761.62	16.29	6761.61	16.61	6761.6
16.95	6761.59	17.26	6761.59	17.65	6761.58	18.69	6761.58	18.95	6761.57
19.19	6761.57	19.72	6761.55	19.95	6761.55	20.16	6761.54	20.76	6761.52
20.95	6761.52	21.12	6761.51	21.8	6761.49	21.95	6761.49	22.09	6761.48
22.84	6761.43	22.95	6761.42	23.06	6761.41	23.88	6761.35	23.96	6761.35
24.03	6761.34	24.92	6761.28	24.96	6761.28	25	6761.27	25.51	6761.23
25.53	6761.23	25.96	6761.2	26.06	6761.2	26.93	6761.13	27	6761.13
27.9	6761.06	27.96	6761.06	28.03	6761.05	28.86	6761	28.96	6760.99
29.07	6760.98	29.83	6760.93	29.96	6760.92	30.11	6760.91	30.8	6760.86
30.96	6760.85	31.14	6760.83	31.76	6760.79	31.97	6760.78	32.18	6760.77

32.73	6760.74	32.97	6760.73	33.22	6760.72	33.7	6760.7	33.97	6760.68
34.26	6760.67	34.53	6760.65	34.66	6760.64	34.97	6760.62	35.29	6760.6
35.63	6760.58	35.97	6760.56	36.33	6760.54	36.6	6760.52	36.97	6760.5
37.37	6760.44	37.56	6760.41	37.97	6760.36	38.4	6760.3	38.53	6760.28
38.97	6760.22	39.45	6760.15	39.51	6760.15	39.95	6760.08	39.98	6760.08
40	6760.08	40.03	6760.08	40.47	6760.04	40.49	6760.01	40.98	6759.97
41.44	6759.94	41.53	6759.92	41.98	6759.89	42.41	6759.72	42.56	6759.63
42.98	6759.46	43.37	6759.26	43.6	6759.15	43.98	6758.95	44.34	6758.78
44.64	6758.62	44.98	6758.45	45.31	6758.4	45.68	6758.1	45.98	6758.05
46.27	6758	46.71	6757.92	46.98	6757.87	47.04	6757.82	47.24	6757.65
47.75	6757.2	47.99	6757	48.2	6756.81	48.79	6756.48	48.99	6756.31
49.17	6756.19	49.82	6755.78	49.99	6755.67	50.14	6755.58	50.86	6755.12
50.99	6755.04	51.1	6754.96	51.9	6754.46	51.99	6754.4	52.07	6754.36
52.94	6754.07	52.99	6754.04	53.04	6754.03	53.83	6754.01	53.97	6754.01
53.99	6754	54	6754	54.42	6753.99	54.98	6753.98	55.02	6753.98
55.95	6753.95	56.06	6753.95	56.23	6754.07	56.93	6754.55	57	6754.55
57.07	6754.6	57.93	6754.97	58	6755.02	58.07	6755.08	58.93	6755.7
59	6755.76	59.08	6755.81	59.55	6756.16	59.62	6756.21	59.92	6756.43
60	6756.49	60.09	6756.55	60.89	6757.14	61	6757.22	61.11	6757.3
61.87	6757.85	62	6757.94	62.14	6758	62.85	6758.23	63	6758.29
63.16	6758.36	63.83	6758.65	64	6758.73	64.18	6758.81	64.81	6759.08
65	6759.17	65.2	6759.26	65.79	6759.51	66	6759.61	66.23	6759.7
66.24	6759.7	66.76	6759.82	66.96	6759.91	67	6759.93	67.25	6759.95
67.74	6759.95	68	6759.97	68.27	6759.99	68.72	6760.03	69	6760.05
69.3	6760.07	69.7	6760.1	70	6760.12	70.32	6760.15	70.69	6760.17
71.01	6760.2	71.35	6760.22	71.67	6760.25	72.01	6760.27	73.01	6760.27
73.4	6760.26	77.01	6760.26	77.49	6760.39	77.54	6760.28	78.02	6760.41
78.51	6760.54	79.02	6760.68	79.49	6760.8	79.54	6760.82	80.02	6760.94
80.47	6761.07	80.56	6761.09	81.02	6761.21	81.45	6761.33	81.58	6761.36
82.02	6761.48	82.43	6761.5	82.61	6761.43	83.02	6761.46	83.41	6761.42
83.63	6761.41	84.02	6761.37	84.39	6761.34	84.65	6761.32	85.02	6761.29
85.36	6761.26	85.68	6761.24	86.02	6761.21	86.34	6761.18	86.71	6761.15
87.03	6761.13	87.33	6761.1	87.73	6761.04	88.03	6761.02	88.31	6760.98
88.76	6760.93	89.03	6760.89	89.29	6760.86	89.78	6760.8	90.03	6760.77
90.27	6760.74	90.8	6760.67	91.03	6760.64	91.24	6760.61	91.83	6760.54
92.03	6760.52	92.22	6760.51	92.85	6760.46	93.03	6760.46	93.2	6760.45
93.87	6760.4	94.03	6760.39	94.18	6760.38	94.9	6760.34	95.03	6760.33
95.16	6760.32	95.92	6760.27	96.03	6760.27	96.14	6760.26	96.94	6760.21
97.03	6760.2	97.11	6760.2	97.96	6760.19	98.03	6760.18	98.09	6760.18
98.99	6760.17	99.07	6760.17	100.01	6760.16	100.05	6760.16	100.89	6760.14
101.03	6760.14	102.01	6760.13	102.07	6760.13	102.99	6760.12	103.09	6760.12
103.97	6760.11	104.11	6760.11	104.95	6760.1	105.14	6760.1	105.93	6760.09
106.04	6760.09	106.16	6760.08	106.91	6760.08	107.04	6760.07	107.18	6760.07
107.89	6760	108.04	6760	108.21	6759.98	108.86	6759.93	109.04	6759.91
109.23	6759.9	109.84	6759.84	110.04	6759.82	110.25	6759.81	110.82	6759.76
111.04	6759.74	111.28	6759.72	111.8	6759.67	112.04	6759.65	112.3	6759.66
112.78	6759.67	113.04	6759.67	113.32	6759.68	113.76	6759.68	114.04	6759.69
114.34	6759.7	114.74	6759.7	115.04	6759.71	115.37	6759.72	115.71	6759.72
116.04	6759.73	116.39	6759.73	116.69	6759.74	117.41	6759.74	117.67	6759.73
118.06	6759.73	118.45	6759.72	119.06	6759.72	119.47	6759.71	119.64	6759.71
120.06	6759.7	120.62	6759.7	121.06	6759.69	121.52	6759.67	121.59	6759.68
122.06	6759.66	122.54	6759.65	122.57	6759.65	123.06	6759.64	123.55	6759.63
123.56	6759.63	124.06	6759.62	124.53	6759.61	124.59	6759.6	125.06	6759.59
125.51	6759.58	125.61	6759.58	126.06	6759.57	126.49	6759.56	126.63	6759.56
127.06	6759.55	127.46	6759.56	127.66	6759.56	128.06	6759.57	128.44	6759.58
128.68	6759.59	129.06	6759.6	129.42	6759.6	129.7	6759.61	130.06	6759.62
130.4	6759.63	130.72	6759.63	131.06	6759.64	131.38	6759.65	131.75	6759.67
132.06	6759.68	132.36	6759.68	132.77	6759.67	133.33	6759.67	133.8	6759.66
134.83	6759.66	135.07	6759.65	135.85	6759.65	136.07	6759.64	136.28	6759.64
136.87	6759.63	137.9	6759.63	138.07	6759.64	138.24	6759.64	138.92	6759.65
139.21	6759.65	139.94	6759.66	140.19	6759.66	140.97	6759.67	141.17	6759.67
141.99	6759.68	142.15	6759.68	143.01	6759.72	143.13	6759.72	144.03	6759.76
144.11	6759.76	145.06	6759.81	145.09	6759.81	145.68	6759.83	146.06	6759.85
146.08	6759.85	147.04	6759.9	147.07	6759.91	147.1	6759.91	148.02	6759.92
149.07	6759.92	149.16	6759.93	150.18	6759.93	150.97	6759.94	153.67	6759.94

Manning's	n	Values	num=	4			
Sta	n	Val	Sta	n	Val	Sta	n
0	.016	25.51	.025	40	.035	66.96	.016

Bank	Sta:	Left	Right	Coeff	Contr.	Expan.

39.95 66.96 .3 .5

Downstream Deck/Roadway Coordinates

num= 69														
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-5.34	6761.79		0		-5.22	6761.76		0		-5.05	6761.77		0	
-5.04	6761.77		0		-.28	6761.72		0		-.04	6761.71		0	
4.74	6761.82		0		4.96	6761.83		0		9.76	6761.62		0	
9.96	6761.61		0		14.78	6761.54		0		14.96	6761.53		0	
19.81	6761.49		0		19.96	6761.49		0		24.83	6761.28		0	
24.96	6761.27		0		29.85	6761.21		0		29.96	6761.21		0	
30.06	6761.21		0		34.96	6761.03		0		39.89	6760.85		0	
39.96	6760.85		0		44.91	6760.49		0		44.96	6760.49		0	
49.93	6760.55		0		49.96	6760.55		0		54.96	6760.33		0	
55.13	6760.32		0		59.96	6760.2		0		59.98	6760.2		0	
64.96	6760.28		0		65	6760.28		0		69.96	6760.27		0	
70.02	6760.27		0		74.96	6760.02		0		75.04	6760.02		0	
79.96	6760.09		0		80.06	6760.09		0		84.96	6760		0	
85.09	6760		0		89.96	6759.89		0		90.11	6759.89		0	
94.96	6759.82		0		95.13	6759.82		0		99.96	6759.92		0	
104.75	6759.78		0		104.96	6759.78		0		105.17	6759.77		0	
109.96	6759.77		0		110.19	6759.77		0		114.96	6759.83		0	
115.21	6759.83		0		119.96	6759.77		0		120.24	6759.77		0	
124.96	6759.81		0		125.26	6759.82		0		129.96	6759.93		0	
130.28	6759.94		0		134.96	6760.1		0		135.3	6760.09		0	
139.96	6760.04		0		140.32	6760.05		0		144.96	6760.2		0	
145.34	6760.21		0		149.96	6760.32		0		150.28	6760.32		0	
150.37	6760.32		0		153.94	6760.24		0		154.65	6760.22		0	

Downstream Bridge Cross Section Data

Station Elevation		Data num= 358									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.83	.33	6761.83	.68	6761.82	.98	6761.81	1.33	6761.8		
1.69	6761.79	1.97	6761.78	2.33	6761.78	2.7	6761.77	2.96	6761.77		
3.33	6761.76	3.71	6761.75	3.95	6761.75	4.33	6761.74	6.33	6761.74		
6.74	6761.73	6.92	6761.74	7.33	6761.73	7.75	6761.71	7.91	6761.71		
8.33	6761.69	8.76	6761.68	8.9	6761.68	9.34	6761.66	9.78	6761.65		
9.9	6761.65	10.34	6761.63	10.79	6761.62	10.89	6761.62	11.34	6761.61		
11.8	6761.6	11.88	6761.59	14.34	6761.59	14.83	6761.56	14.85	6761.56		
15.34	6761.54	15.84	6761.51	16.34	6761.49	16.83	6761.46	16.85	6761.45		
17.34	6761.43	17.82	6761.39	17.86	6761.39	18.34	6761.36	18.81	6761.32		
18.87	6761.32	19.34	6761.28	19.8	6761.26	19.88	6761.25	20.34	6761.23		
20.79	6761.2	20.89	6761.2	21.34	6761.17	21.78	6761.15	21.9	6761.14		
22.34	6761.11	22.78	6761.08	22.91	6761.07	23.34	6761.04	23.77	6761.01		
23.92	6761	24.34	6760.97	29.35	6760.84	29.72	6760.78	29.99	6760.72		
30.35	6760.66	30.71	6760.59	31	6760.54	31.35	6760.47	31.7	6760.41		
32.01	6760.34	32.35	6760.27	32.69	6760.2	33.02	6760.13	33.35	6760.07		
33.66	6760	33.68	6760	34.03	6759.93	34.35	6759.86	34.67	6759.76		
35.04	6759.65	35.35	6759.55	35.66	6759.46	36.05	6759.34	36.35	6759.25		
36.65	6759.15	37.06	6759.03	37.35	6758.94	37.64	6758.84	38.07	6758.7		
38.35	6758.61	38.63	6758.52	39.08	6758.37	39.35	6758.28	39.62	6758.18		
40.09	6758	40.35	6757.9	40.61	6757.8	41.1	6757.61	41.35	6757.51		
41.6	6757.41	42.11	6757.23	42.35	6757.14	42.59	6757.05	43.12	6756.86		
43.35	6756.77	43.58	6756.69	43.72	6756.64	44.13	6756.49	44.35	6756.41		
44.57	6756.31	45.14	6756.06	45.35	6755.97	45.56	6755.88	46.16	6755.63		
46.36	6755.54	46.56	6755.46	47.17	6755.16	47.36	6755.08	47.55	6754.99		
48.18	6754.7	48.36	6754.62	48.54	6754.53	49.19	6754.23	49.36	6754.15		
49.53	6754.08	50.2	6753.82	50.36	6753.76	50.52	6753.7	51.21	6753.57		
51.36	6753.52	51.51	6753.5	52.22	6753.3	52.36	6753.28	52.5	6753.25		
53.23	6753.05	53.36	6753.02	53.49	6753	54.24	6752.88	54.36	6752.86		
54.48	6752.88	55.25	6753.06	55.36	6753.08	55.47	6753.1	55.69	6753.15		
56.23	6753.27	56.26	6753.28	56.36	6753.3	56.46	6753.32	57.27	6753.65		
57.36	6753.67	57.45	6753.72	58.29	6754.02	58.36	6754.07	58.44	6754.14		
59.3	6754.85	59.36	6754.91	59.43	6754.96	60.31	6755.6	60.36	6755.64		
60.42	6755.68	61.32	6756.33	61.36	6756.37	61.41	6756.4	62.33	6757.05		
62.36	6757.07	62.4	6757.1	63.34	6757.76	63.36	6757.78	63.39	6757.8		
63.59	6757.94	64.35	6758.47	64.36	6758.49	64.38	6758.49	65.37	6758.82		
65.37	6758.83	65.38	6758.83	66.1	6759.07	66.37	6759.17	67.36	6759.52		
67.37	6759.53	67.39	6759.53	68.35	6759.88	68.37	6759.88	68.4	6759.89		
68.7	6760	68.74	6760.01	69.34	6760.23	69.37	6760.24	69.41	6760.24		
70.33	6760.28	70.42	6760.28	71.32	6760.32	71.43	6760.32	72.31	6760.36		

72.37	6760.37	72.44	6760.37	73.3	6760.41	73.37	6760.42	73.45	6760.42
74.29	6760.46	74.37	6760.47	74.46	6760.47	75.28	6760.5	75.47	6760.5
76.27	6760.53	76.37	6760.54	76.48	6760.54	77.26	6760.55	77.49	6760.55
78.25	6760.56	78.37	6760.57	78.5	6760.57	79.24	6760.58	79.51	6760.58
80.23	6760.59	80.37	6760.6	80.52	6760.59	81.22	6760.61	81.53	6760.61
82.21	6760.6	82.37	6760.59	82.54	6760.59	83.21	6760.58	83.56	6760.58
84.2	6760.57	84.38	6760.56	84.57	6760.53	85.19	6760.43	85.38	6760.4
85.58	6760.38	86.18	6760.27	86.38	6760.25	86.59	6760.24	87.17	6760.18
87.38	6760.16	87.6	6760.14	88.16	6760.09	88.38	6760.07	88.61	6760.05
89.15	6760	89.38	6759.98	89.62	6759.98	90.14	6759.99	90.38	6760
90.63	6760	91.13	6760.02	91.39	6760.01	92.65	6760.01	93.11	6760
94.67	6760	95.09	6760.01	95.39	6760.01	95.68	6760.02	96.08	6760.03
97.08	6760.03	97.39	6760.04	98.71	6760.04	99.06	6760.05	99.39	6760.05
99.72	6760.04	100.73	6760.04	101.04	6760.03	104.4	6760.03	104.78	6760.04
105.01	6760.05	105.4	6760.06	105.79	6760.07	106	6760.08	106.4	6760.09
106.8	6760.1	106.99	6760.11	107.4	6760.12	107.81	6760.13	107.98	6760.13
108.4	6760.14	108.82	6760.15	108.97	6760.15	109.4	6760.16	109.96	6760.16
110.4	6760.17	110.84	6760.16	110.95	6760.17	111.4	6760.17	111.85	6760.16
111.94	6760.16	112.4	6760.15	112.93	6760.15	113.4	6760.14	113.87	6760.13
118.4	6760.13	118.87	6760.14	119.4	6760.14	119.87	6760.15	119.95	6760.15
120.41	6760.16	120.86	6760.17	120.96	6760.18	121.41	6760.19	121.85	6760.21
121.97	6760.22	122.41	6760.23	122.84	6760.25	122.98	6760.25	123.38	6760.27
123.41	6760.27	123.82	6760.29	123.99	6760.29	124.41	6760.31	124.8	6760.31
125.02	6760.32	125.41	6760.32	125.78	6760.33	126.04	6760.34	126.41	6760.35
126.76	6760.36	127.06	6760.37	127.41	6760.38	127.74	6760.39	128.09	6760.4
128.41	6760.4	128.72	6760.41	129.11	6760.42	129.41	6760.43	129.69	6760.43
130.13	6760.44	133.2	6760.44	133.41	6760.43	134.59	6760.43	135.25	6760.42
135.41	6760.42	135.57	6760.41	136.27	6760.4	136.54	6760.4	137.29	6760.39
137.52	6760.39	138.32	6760.37	138.51	6760.37	139.35	6760.36	140.47	6760.36
141.39	6760.35	142.42	6760.35	142.63	6760.34	144.38	6760.34	144.42	6760.33
144.46	6760.34	145.36	6760.35	145.42	6760.36	145.49	6760.36	146.34	6760.37
146.51	6760.37	147.32	6760.39	147.53	6760.39	148.3	6760.4	148.42	6760.41
148.55	6760.41	149.28	6760.42	149.31	6760.42				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	33.66	.04	68.7	.016

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	33.66	68.7		.3	.5

Upstream Embankment side slope = 3 horiz. to 1.0 vertical

Downstream Embankment side slope = 3 horiz. to 1.0 vertical

Maximum allowable submergence for weir flow = .98

Elevation at which weir flow begins =

Energy head used in spillway design =

Spillway height used in design =

Weir crest shape = Broad Crested

Number of Culverts = 1

Culvert Name	Shape	Rise	Span
Culvert #1	Circular	6	
FHWA Chart # 2 - Corrugated Metal Pipe Culvert			
FHWA Scale # 2 - Mitered to conform to slope			
Solution Criteria = Highest U.S. EG			
Culvert Upstrm Dist	Length	Top n	Bottom n
Coef			
	3.35	60	.024
Upstream Elevation =	6753.81		
Centerline Station =	53.93		
Downstream Elevation =	6752.73		
Centerline Station =	55.78		

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split RS: 996

INPUT

Station Elev

Sta	Elev	Sta	Elev

S

0	6761.83	33	6761.83	.68	6761.82	.98	6761.81	1.33	6761.8
1.69	6761.79	1.97	6761.78	2.33	6761.78	2.7	6761.77	2.96	6761.77
3.33	6761.76	3.71	6761.75	3.95	6761.75	4.33	6761.74	6.33	6761.74
6.74	6761.73	6.92	6761.74	7.33	6761.73	7.75	6761.71	7.91	6761.71
8.33	6761.69	8.76	6761.68	8.9	6761.68	9.34	6761.66	9.78	6761.65
9.9	6761.65	10.34	6761.63	10.79	6761.62	10.89	6761.62	11.34	6761.61
11.8	6761.6	11.88	6761.59	14.34	6761.59	14.83	6761.56	14.85	6761.56
15.34	6761.54	15.84	6761.51	16.34	6761.49	16.83	6761.46	16.85	6761.45
17.34	6761.43	17.82	6761.39	17.86	6761.39	18.34	6761.36	18.81	6761.32
18.87	6761.32	19.34	6761.28	19.8	6761.26	19.88	6761.25	20.34	6761.23
20.79	6761.2	20.89	6761.2	21.34	6761.17	21.78	6761.15	21.9	6761.14
22.34	6761.11	22.78	6761.08	22.91	6761.07	23.34	6761.04	23.77	6761.0
23.92	6761	24.34	6760.97	29.35	6760.84	29.72	6760.78	29.99	6760.7
30.35	6760.66	30.71	6760.59	31	6760.54	31.35	6760.47	31.7	6760.41
32.01	6760.34	32.35	6760.27	32.69	6760.2	33.02	6760.13	33.35	6760.07
33.66	6760	33.68	6760	34.03	6759.93	34.35	6759.86	34.67	6759.76
35.04	6759.65	35.35	6759.55	35.66	6759.46	36.05	6759.34	36.35	6759.25
36.65	6759.15	37.06	6759.03	37.35	6758.94	37.64	6758.84	38.07	6758.7
38.35	6758.61	38.63	6758.52	39.08	6758.37	39.35	6758.28	39.62	6758.18
40.09	6758	40.35	6757.9	40.61	6757.8	41.1	6757.61	41.35	6757.51
41.6	6757.41	42.11	6757.23	42.35	6757.14	42.59	6757.05	43.12	6756.86
43.35	6756.77	43.58	6756.69	43.72	6756.64	44.13	6756.49	44.35	6756.41
44.57	6756.31	45.14	6756.06	45.35	6755.97	45.56	6755.88	46.16	6755.63
46.36	6755.54	46.56	6755.46	47.17	6755.16	47.36	6755.08	47.55	6754.99
48.18	6754.7	48.36	6754.62	48.54	6754.53	49.19	6754.23	49.36	6754.15
49.53	6754.08	50.2	6753.82	50.36	6753.76	50.52	6753.7	51.21	6753.57
51.36	6753.52	51.51	6753.5	52.22	6753.3	52.36	6753.28	52.5	6753.25
53.23	6753.05	53.36	6753.02	53.49	6753	54.24	6752.88	54.36	6752.86
54.48	6752.88	55.25	6753.06	55.36	6753.08	55.47	6753.1	55.69	6753.15
56.23	6753.27	56.26	6753.28	56.36	6753.3	56.46	6753.32	57.27	6753.65
57.36	6753.67	57.45	6753.72	58.29	6754.02	58.36	6754.07	58.44	6754.14
59.3	6754.85	59.36	6754.91	59.43	6754.96	60.31	6755.6	60.36	6755.64
60.42	6755.68	61.32	6756.33	61.36	6756.37	61.41	6756.4	62.33	6757.05
62.36	6757.07	62.4	6757.1	63.34	6757.76	63.36	6757.78	63.39	6757.8
63.59	6757.94	64.35	6758.47	64.36	6758.49	64.38	6758.49	65.37	6758.82
65.37	6758.83	65.38	6758.83	66.1	6759.07	66.37	6759.17	67.36	6759.52
67.37	6759.53	67.39	6759.53	68.35	6759.88	68.37			

141.39	6760.35	142.42	6760.35	142.63	6760.34	144.38	6760.34	144.42	6760.33
144.46	6760.34	145.36	6760.35	145.42	6760.36	145.49	6760.36	146.34	6760.37
146.51	6760.37	147.32	6760.39	147.53	6760.39	148.3	6760.4	148.42	6760.41
148.55	6760.41	149.28	6760.42	149.31	6760.42				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	33.66	.04	68.7	.016

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	33.66	68.7		207.67 207.09	207.67		.3	.5

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 995.7

INPUT

Description:

Station	Elevation	Data	num=	399					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.96	.2	6761.96	.36	6761.95	.53	6761.95	1.19	6761.93
1.36	6761.92	1.54	6761.92	2.18	6761.9	2.54	6761.88	3.18	6761.86
3.36	6761.86	3.55	6761.85	4.17	6761.83	4.2	6761.83	4.2	6761.97
4.63	6761.97	5.01	6761.95	5.25	6761.93	5.63	6761.92	6.01	6761.9
6.25	6761.89	6.63	6761.87	7.02	6761.86	7.24	6761.85	7.63	6761.84
8.02	6761.83	8.23	6761.82	8.63	6761.81	9.03	6761.8	9.23	6761.79
9.63	6761.78	10.04	6761.78	10.22	6761.79	10.63	6761.79	11.04	6761.8
11.63	6761.8	12.05	6761.81	12.21	6761.81	12.63	6761.82	13.05	6761.82
13.2	6761.84	13.63	6761.85	14.06	6761.86	14.2	6761.87	14.63	6761.88
18.08	6761.88	18.18	6761.87	19.63	6761.87	20.1	6761.85	20.16	6761.84
20.63	6761.82	21.1	6761.8	21.16	6761.8	21.63	6761.78	22.11	6761.76
22.15	6761.76	22.63	6761.74	23.11	6761.72	23.15	6761.72	23.63	6761.7
24.12	6761.68	24.14	6761.68	24.63	6761.67	25.13	6761.67	25.63	6761.66
27.63	6761.66	28.12	6761.65	28.14	6761.66	28.63	6761.65	29.11	6761.64
29.63	6761.64	30.11	6761.62	30.16	6761.62	30.63	6761.61	31.1	6761.6
31.16	6761.6	31.63	6761.59	32.09	6761.58	32.17	6761.57	32.63	6761.56
33.09	6761.55	33.17	6761.55	33.63	6761.53	34.08	6761.52	34.18	6761.51
34.63	6761.49	39.63	6761.14	40.05	6761.06	40.22	6761.03	40.63	6760.95
41.04	6760.87	41.22	6760.84	41.63	6760.76	41.95	6760.7	41.97	6760.7
42.03	6760.69	42.23	6760.66	42.63	6760.58	43.03	6760.51	43.23	6760.47
43.63	6760.4	44.02	6760.35	44.24	6760.31	44.63	6760.25	45.02	6760.18
45.25	6760.13	45.63	6760.05	45.8	6760.02	46.01	6759.98	46.25	6759.93
46.63	6759.85	47.01	6759.78	47.26	6759.72	47.63	6759.65	48	6759.56
48.26	6759.52	48.63	6759.43	48.99	6759.34	49.27	6759.28	49.63	6759.19
49.99	6758.99	50.28	6758.84	50.63	6758.65	50.98	6758.5	51.28	6758.38
51.63	6758.23	51.98	6758.1	52.29	6757.97	52.63	6757.84	52.97	6757.7
53.29	6757.57	53.63	6757.44	53.96	6757.31	54.3	6757.17	54.45	6757.11
54.63	6757.04	54.96	6756.91	55.31	6756.78	55.63	6756.65	55.95	6756.52
56.31	6756.38	56.63	6756.26	56.95	6756.13	57.32	6755.99	57.63	6755.86
57.94	6755.74	58.32	6755.59	58.63	6755.47	58.93	6755.3	59.33	6755.18
59.63	6755	59.93	6754.95	60.34	6754.7	60.63	6754.65	60.92	6754.57
61.34	6754.52	61.63	6754.44	61.92	6754.32	62.35	6754.24	62.63	6754.13
62.91	6754.15	63.35	6754.25	63.63	6754.27	63.91	6754.36	64.36	6754.32
64.63	6754.41	64.9	6754.34	65.21	6754.28	65.37	6754.25	65.63	6754.18
65.89	6754.22	66.37	6754.25	66.63	6754.29	66.89	6754.41	66.95	6754.44
67.38	6754.65	67.63	6754.77	67.88	6754.89	68.38	6755.13	68.63	6755.25
68.88	6755.36	69.39	6755.61	69.63	6755.72	69.87	6755.76	70.4	6755.87
70.63	6755.92	70.86	6755.96	71.4	6756.12	71.63	6756.17	71.86	6756.23
72.41	6756.38	72.63	6756.44	72.85	6756.5	73.41	6756.65	73.63	6756.71
73.85	6756.77	74.42	6756.92	74.63	6756.98	74.84	6756.98	75.43	6756.97
75.83	6756.97	76.43	6756.96	76.83	6756.96	77.44	6756.95	77.63	6756.95
77.82	6756.96	78.44	6756.94	78.63	6756.95	78.82	6756.96	79.45	6756.99
79.63	6757	79.81	6757.01	80.46	6757.06	80.63	6757.08	80.81	6757.09
81.46	6757.14	81.63	6757.15	81.8	6757.16	82.47	6757.21	82.63	6757.23
82.79	6757.23	83.47	6757.29	83.63	6757.3	83.79	6757.3	84.48	6757.34
84.63	6757.34	84.78	6757.35	85.49	6757.39	85.63	6757.4	85.78	6757.41
86.49	6757.45	86.63	6757.46	86.77	6757.47	87.5	6757.51	87.63	6757.52
87.76	6757.53	88.5	6757.57	88.63	6757.58	88.67	6757.58	88.76	6757.59
89.5	6757.63	89.63	6757.64	89.77	6757.65	90.48	6757.71	90.63	6757.72

90.78	6757.74	91.47	6757.8	91.63	6757.82	91.79	6757.85	92.46	6757.94
92.63	6757.98	92.8	6758.02	93.45	6758.17	93.63	6758.21	93.82	6758.25
94.44	6758.39	94.63	6758.43	94.83	6758.46	95.43	6758.52	95.63	6758.55
95.84	6758.55	96.42	6758.61	96.85	6758.61	97.41	6758.67	97.86	6758.67
98.4	6758.68	98.87	6758.68	99.39	6758.69	99.63	6758.69	99.88	6758.7
100.38	6758.74	100.63	6758.76	100.89	6758.78	101.37	6758.81	101.63	6758.83
101.91	6758.85	102.35	6758.88	102.63	6758.9	102.92	6758.93	103.34	6758.95
103.63	6758.98	103.93	6759	104.33	6759.03	104.63	6759.06	104.94	6759.08
105.32	6759.1	105.63	6759.13	105.95	6759.15	106.31	6759.17	106.63	6759.2
106.96	6759.22	107.3	6759.24	107.63	6759.26	107.97	6759.29	108.29	6759.31
108.63	6759.33	108.98	6759.36	109.28	6759.38	109.63	6759.4	109.99	6759.42
110.27	6759.43	110.63	6759.44	111.01	6759.45	111.26	6759.46	111.63	6759.48
112.02	6759.49	112.25	6759.5	112.63	6759.51	113.03	6759.52	113.24	6759.54
113.63	6759.54	114.04	6759.55	114.22	6759.56	114.63	6759.57	115.63	6759.57
116.06	6759.58	117.19	6759.58	117.63	6759.59	118.63	6759.59	119.1	6759.6
119.17	6759.6	119.63	6759.61	120.11	6759.64	120.16	6759.64	120.63	6759.67
121.12	6759.69	121.15	6759.7	121.63	6759.72	122.13	6759.75	122.14	6759.75
122.63	6759.78	123.13	6759.81	123.14	6759.82	123.63	6759.84	124.12	6759.88
124.15	6759.88	124.63	6759.91	125.11	6759.93	125.16	6759.93	125.63	6759.95
126.1	6759.97	126.17	6759.97	126.63	6759.99	127.08	6760	127.18	6760.01
127.63	6760.02	128.07	6760.04	128.2	6760.05	128.63	6760.06	129.06	6760.08
129.21	6760.09	129.63	6760.11	130.05	6760.13	130.22	6760.14	130.63	6760.16
131.04	6760.19	131.23	6760.2	131.63	6760.22	132.03	6760.24	132.24	6760.25
132.63	6760.27	133.02	6760.29	133.25	6760.3	133.63	6760.32	134.01	6760.34
134.26	6760.36	134.63	6760.38	135	6760.39	135.27	6760.4	135.63	6760.42
135.99	6760.43	136.29	6760.44	136.63	6760.45	136.98	6760.47	137.3	6760.48
137.63	6760.49	137.97	6760.5	138.31	6760.51	138.63	6760.53	138.95	6760.54
139.32	6760.55	139.63	6760.56	139.94	6760.53	140.33	6760.5	140.63	6760.47
140.93	6760.44	141.34	6760.41	141.63	6760.38	141.74	6760.37	141.92	6760.36
142.35	6760.32	142.63	6760.29	142.91	6760.27	143.36	6760.23	143.64	6760.21
143.9	6760.18	144.37	6760.2	144.63	6760.18	144.93	6760.23		

Manning's n Values	num=		3		
Sta	n Val	Sta	n Val	Sta	n Val
0	.016	42.03	.04	104.63	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	49.63	104.94		159.9 159.28	159.9		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 995.5

INPUT

Description:

Station Elevation Data		num=		364					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6762.15	.94	6762.15	1.86	6762.12	1.96	6762.12	2.84	6762.1
2.98	6762.1	3.83	6762.07	4	6762.07	4.81	6762.03	4.91	6762.02
5.02	6762.02	5.79	6761.98	5.91	6761.98	6.04	6761.97	6.77	6761.94
6.91	6761.93	7.06	6761.93	7.75	6761.89	7.91	6761.89	8.08	6761.88
8.73	6761.87	9.1	6761.87	9.71	6761.88	10.12	6761.88	10.69	6761.89
11.14	6761.89	11.67	6761.9	12.16	6761.9	12.66	6761.91	13.91	6761.91
14.2	6761.9	14.62	6761.89	14.91	6761.89	15.22	6761.88	15.6	6761.87
15.91	6761.87	16.24	6761.86	16.58	6761.85	16.91	6761.84	17.26	6761.83
17.56	6761.83	17.92	6761.82	18.28	6761.81	18.54	6761.8	18.92	6761.79
19.3	6761.76	19.52	6761.74	19.92	6761.71	20.32	6761.67	20.51	6761.66
20.92	6761.63	21.34	6761.59	21.49	6761.58	21.92	6761.55	22.36	6761.52
22.47	6761.51	22.92	6761.48	23.38	6761.46	23.45	6761.45	23.92	6761.43
24.43	6761.43	24.92	6761.44	27.93	6761.44	29.34	6761.44	29.5	6761.43
29.92	6761.43	30.32	6761.35	30.52	6761.44	30.92	6761.36	31.3	6761.19
31.54	6761.06	31.92	6760.89	32.28	6761.01	32.56	6761.1	32.92	6761.21
33.26	6761.27	33.58	6761.21	33.92	6761.27	34.24	6761.21	34.6	6761.15
34.92	6761.1	35.22	6761.05	35.62	6760.97	35.92	6760.92	36.2	6760.86
36.64	6760.76	36.92	6760.7	37.19	6760.64	37.66	6760.54	37.92	6760.49
38.17	6760.45	38.68	6760.36	38.92	6760.32	39.15	6760.25	39.7	6760.06
39.92	6759.99	40.13	6759.92	40.72	6759.72	40.86	6759.67	40.87	6759.67
40.92	6759.65	41.11	6759.59	41.74	6759.37	41.92	6759.31	42.09	6759.26
42.76	6759.02	42.92	6758.97	43.07	6758.92	43.78	6758.67	43.92	6758.62

44.05	6758.56	44.8	6758.2	44.92	6758.15	45.04	6758.09	45.82	6757.72
45.92	6757.67	46.02	6757.62	46.84	6757.23	46.92	6757.19	47	6757.16
47.86	6756.72	47.92	6756.69	47.98	6756.66	48.88	6756.21	48.92	6756.19
48.96	6756.17	49.9	6755.81	49.92	6755.8	49.94	6755.79	50.92	6755.41
51.01	6755.37	51.9	6755.03	51.92	6755.02	51.94	6755.01	52.89	6754.61
52.92	6754.59	52.96	6754.58	53.37	6754.4	53.87	6754.19	53.92	6754.17
53.98	6754.16	54.85	6754.04	54.92	6754.03	55	6754.02	55.83	6753.9
55.92	6753.89	56.02	6753.88	56.81	6753.76	56.92	6753.76	57.04	6753.74
57.79	6753.74	57.92	6753.73	58.06	6753.69	58.77	6752.7	58.84	6752.69
58.92	6752.67	59.08	6752.66	59.75	6753.08	59.92	6753.07	60.1	6753.11
60.74	6753.4	60.92	6753.44	61.12	6753.44	61.72	6753.46	61.92	6753.47
62.14	6753.5	62.7	6753.49	62.92	6753.52	63.16	6753.89	63.68	6754.76
63.92	6755.14	64.18	6755.35	64.66	6755.73	64.92	6755.94	65.2	6756.14
65.64	6756.24	65.86	6756.4	65.87	6756.41	65.92	6756.45	66.22	6756.54
66.62	6756.66	66.92	6756.76	67.24	6756.66	67.6	6756.85	67.92	6756.75
68.26	6756.61	68.58	6756.47	68.92	6756.32	69.28	6756.4	69.57	6756.46
69.92	6756.54	70.3	6756.62	70.55	6756.66	70.93	6756.74	71.32	6756.81
71.53	6756.79	71.93	6756.86	72.34	6756.9	72.51	6756.92	72.93	6756.95
73.05	6756.92	73.36	6756.82	73.49	6756.86	73.93	6756.72	74.39	6756.83
74.46	6756.84	74.93	6756.95	75.42	6757.05	75.43	6757.06	75.93	6757.16
76.4	6757.27	76.45	6757.23	76.93	6757.33	77.38	6757.41	77.48	6757.43
77.93	6757.51	78.35	6757.54	78.51	6757.59	78.93	6757.63	79.32	6757.66
79.54	6757.67	79.93	6757.7	80.29	6757.73	80.57	6757.77	80.93	6757.79
81.26	6757.83	81.6	6757.88	81.93	6757.91	82.24	6758	82.63	6758
82.93	6758.09	83.21	6758.21	83.66	6758.41	83.93	6758.52	84.18	6758.61
84.69	6758.5	84.93	6758.58	85.15	6758.41	85.73	6758.29	85.93	6758.13
86.13	6758.05	86.76	6758.1	86.93	6758.02	87.1	6758.03	87.79	6757.92
87.93	6757.93	88.07	6757.95	88.82	6758.07	88.93	6758.09	89.04	6758.1
89.85	6758.13	89.93	6758.14	90.01	6758.14	90.88	6758.18	90.99	6758.18
91.91	6758.22	91.96	6758.22	92.81	6758.25	92.93	6758.26	93.9	6758.34
93.93	6758.35	93.97	6758.35	94.87	6758.42	95	6758.42	95.85	6758.55
95.94	6758.56	96.03	6758.56	96.82	6758.69	96.94	6758.69	97.06	6758.71
97.79	6758.81	97.94	6758.84	98.09	6758.86	98.76	6758.95	98.94	6758.98
99.12	6758.98	99.74	6758.97	100.15	6758.97	100.71	6758.96	101.18	6758.96
101.68	6758.95	102.21	6758.95	102.65	6758.94	103.24	6758.94	103.62	6758.93
103.94	6758.93	104.27	6758.94	104.6	6758.96	104.94	6758.98	105.3	6758.99
105.57	6759	105.94	6759.02	106.33	6759.04	106.54	6759.05	106.94	6759.07
107.36	6759.08	107.51	6759.14	107.94	6759.16	108.39	6759.19	108.49	6759.18
108.94	6759.21	109.42	6759.23	109.46	6759.23	109.94	6759.24	110.43	6759.26
110.45	6759.26	110.94	6759.28	111.4	6759.28	111.48	6759.29	111.94	6759.3
112.37	6759.29	112.51	6759.28	112.94	6759.28	113.35	6759.25	113.55	6759.24
113.94	6759.21	114.32	6759.17	114.58	6759.15	114.94	6759.12	115.29	6759.09
115.61	6759.07	115.94	6759.04	116.26	6759.02	116.64	6759.04	116.94	6759.03
117.23	6759.03	117.67	6759.06	117.94	6759.05	118.21	6759.08	118.7	6759.11
118.94	6759.13	119.18	6759.15	119.73	6759.18	119.95	6759.19	120.15	6759.2
120.76	6759.23	120.95	6759.24	121.12	6759.25	121.79	6759.27	121.95	6759.29
122.1	6759.31	122.82	6759.34	122.95	6759.36	123.07	6759.38	123.85	6759.49
123.95	6759.5	124.04	6759.49	124.88	6759.39	124.95	6759.39	125.01	6759.38
125.91	6759.28	125.95	6759.28	125.98	6759.27	126.94	6759.16	126.96	6759.16
127.24	6759.13	127.93	6759.06	127.97	6759.06	128.9	6759.01	129	6759.01
129.87	6759.04	130.03	6759.04	130.08	6759.05	130.77	6759.11		

Manning's n Values		num= 4					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	27.93	.025	40.87	.035	65.87	.045

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	40.87	65.87		105.25 105.25	105.25		.3	.5

CULVERT

RIVER: Walton Creek
 REACH: lower-split RS: 995.45

INPUT
 Description: Ingles Lane
 Distance from Upstream XS = 5
 Deck/Roadway Width = 40
 Weir Coefficient = 2.6
 Upstream Deck/Roadway Coordinates

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num=      293
Sta Hi Cord Lo Cord      Sta Hi Cord Lo Cord      Sta Hi Cord Lo Cord
2.81 6762.09      0      3.1 6762.09      0      3.12 6762.09      0
3.15 6762.09      0      4.12 6762.13      0      4.51 6762.15      0
5.11 6762.17      0      5.12 6762.17      0      5.13 6762.17      0
6.1 6762.17      0      6.12 6762.17      0      6.15 6762.17      0
7.08 6762.17      0      7.12 6762.17      0      7.17 6762.17      0
8.07 6762.16      0      8.12 6762.16      0      8.18 6762.16      0
9.05 6762.16      0      9.12 6762.16      0      9.2 6762.16      0
10.04 6762.16      0      10.12 6762.15      0      10.22 6762.15      0
11.02 6762.11      0      11.12 6762.1      0      11.23 6762.1      0
12 6762.06      0      12.12 6762.05      0      12.25 6762.05      0
12.99 6762.01      0      13.12 6762      0      13.27 6762      0
13.97 6761.96      0      14.13 6761.95      0      14.28 6761.95      0
14.96 6761.91      0      15.13 6761.9      0      15.3 6761.9      0
15.94 6761.89      0      16.13 6761.88      0      16.31 6761.88      0
16.93 6761.86      0      17.13 6761.85      0      17.33 6761.84      0
17.91 6761.83      0      18.13 6761.82      0      18.35 6761.81      0
18.9 6761.79      0      19.13 6761.79      0      19.36 6761.78      0
19.88 6761.76      0      20.13 6761.76      0      20.38 6761.75      0
20.86 6761.75      0      21.13 6761.75      0      21.4 6761.75      0
21.85 6761.75      0      22.13 6761.74      0      22.41 6761.74      0
22.83 6761.74      0      23.13 6761.74      0      23.43 6761.74      0
23.82 6761.73      0      24.13 6761.73      0      24.45 6761.73      0
24.8 6761.73      0      25.13 6761.72      0      25.46 6761.7      0
25.79 6761.68      0      26.13 6761.66      0      26.48 6761.63      0
26.77 6761.61      0      27.13 6761.59      0      27.49 6761.57      0
27.75 6761.55      0      28.13 6761.52      0      28.51 6761.5      0
28.74 6761.48      0      29.13 6761.45      0      29.53 6761.43      0
29.72 6761.44      0      30.13 6761.41      0      30.54 6761.4      0
30.71 6761.38      0      31.13 6761.37      0      31.56 6761.36      0
31.69 6761.36      0      32.13 6761.35      0      32.58 6761.34      0
32.68 6761.34      0      33.13 6761.33      0      33.59 6761.33      0
33.66 6761.32      0      34.13 6761.32      0      34.61 6761.31      0
34.65 6761.31      0      35.13 6761.3      0      35.63 6761.27      0
36.13 6761.24      0      36.61 6761.21      0      36.64 6761.21      0
37.13 6761.19      0      37.6 6761.16      0      37.66 6761.16      0
38.13 6761.13      0      38.58 6761.11      0      38.68 6761.1      0
39.13 6761.08      0      39.57 6761.05      0      39.69 6761.05      0
40.13 6761.02      0      40.55 6760.97      0      40.71 6761      0
41.13 6760.95      0      41.54 6760.93      0      41.72 6760.93      0
42.13 6760.91      0      42.52 6760.9      0      42.74 6760.89      0
43.13 6760.88      0      43.5 6760.87      0      43.76 6760.85      0
44.13 6760.85      0      44.49 6760.86      0      44.77 6760.82      0
45.13 6760.84      0      45.47 6760.82      0      45.79 6760.81      0
46.13 6760.79      0      46.46 6760.78      0      46.81 6760.76      0
47.13 6760.75      0      47.44 6760.73      0      47.82 6760.72      0
48.13 6760.7      0      48.43 6760.69      0      48.84 6760.67      0
49.13 6760.66      0      49.41 6760.65      0      49.86 6760.63      0
50.13 6760.61      0      50.39 6760.58      0      50.87 6760.57      0
51.13 6760.54      0      51.38 6760.52      0      51.89 6760.49      0
52.13 6760.48      0      52.36 6760.46      0      52.91 6760.43      0
53.13 6760.42      0      53.35 6760.41      0      53.92 6760.38      0
54.13 6760.37      0      54.33 6760.35      0      54.94 6760.32      0
55.13 6760.31      0      55.32 6760.3      0      55.95 6760.28      0
56.13 6760.28      0      56.3 6760.27      0      56.97 6760.25      0
57.13 6760.24      0      59.13 6760.17      0      59.25 6760.17      0
60.02 6760.14      0      60.13 6760.14      0      60.24 6760.14      0
61.04 6760.12      0      61.13 6760.12      0      61.22 6760.12      0
62.05 6760.1      0      62.13 6760.1      0      62.21 6760.1      0
63.07 6760.09      0      63.13 6760.09      0      63.19 6760.09      0
64.09 6760.07      0      64.13 6760.07      0      64.18 6760.07      0
65.1 6760.05      0      65.13 6760.05      0      65.16 6760.05      0
66.12 6760.06      0      66.13 6760.06      0      66.14 6760.06      0
66.95 6760.08      0      67.13 6760.08      0      68.11 6760.09      0
68.13 6760.09      0      68.15 6760.09      0      69.1 6760.1      0
69.13 6760.1      0      69.17 6760.11      0      70.08 6760.12      0
70.13 6760.12      0      70.18 6760.12      0      71.07 6760.1      0
71.13 6760.1      0      71.2 6760.1      0      72.05 6760.08      0
72.13 6760.08      0      72.22 6760.08      0      73.04 6760.06      0
73.13 6760.06      0      73.23 6760.06      0      74.02 6760.04      0

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74.13	6760.04	0	74.25	6760.04	0	75	6760.02	0
75.13	6760.02	0	75.27	6760.01	0	75.99	6759.88	0
76.13	6759.87	0	76.28	6759.87	0	76.97	6759.88	0
77.13	6759.87	0	77.3	6759.86	0	77.96	6759.83	0
78.13	6759.83	0	78.32	6759.82	0	78.94	6759.79	0
79.13	6759.78	0	79.33	6759.78	0	79.93	6759.75	0
80.13	6759.74	0	80.35	6759.73	0	80.91	6759.7	0
81.13	6759.68	0	81.36	6759.67	0	81.89	6759.77	0
82.13	6759.76	0	82.38	6759.74	0	82.88	6759.78	0
83.13	6759.76	0	83.4	6759.75	0	83.86	6759.78	0
84.13	6759.76	0	84.41	6759.75	0	84.85	6759.78	0
85.13	6759.76	0	85.43	6759.75	0	85.83	6759.58	0
86.13	6759.57	0	86.45	6759.57	0	86.82	6759.52	0
87.13	6759.52	0	87.46	6759.52	0	87.8	6759.62	0
88.13	6759.62	0	88.48	6759.63	0	88.79	6759.6	0
89.13	6759.61	0	89.5	6759.63	0	89.77	6759.74	0
90.13	6759.75	0	90.51	6759.74	0	90.75	6759.72	0
91.14	6759.71	0	91.53	6759.73	0	91.74	6759.68	0
92.14	6759.7	0	92.55	6759.69	0	92.72	6759.67	0
93.14	6759.66	0	93.56	6759.67	0	93.71	6759.64	0
94.14	6759.65	0	94.58	6759.65	0	94.69	6759.62	0
95.14	6759.62	0	95.59	6759.63	0	95.68	6759.63	0
96.14	6759.64	0	96.61	6759.65	0	96.66	6759.65	0
97.14	6759.65	0	97.42	6759.66	0	97.62	6759.66	0
97.66	6759.66	0	98.14	6759.66	0	98.51	6759.66	0
98.83	6759.66	0	99.15	6759.66	0	99.25	6759.67	0
99.42	6759.67	0	99.89	6759.67	0	100.15	6759.68	0
100.42	6759.68	0	100.89	6759.69	0	101.15	6759.69	0
101.42	6759.69	0	101.64	6759.69	0			

Upstream Bridge Cross Section Data

Station Elevation Data		num=		364					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6762.15	.94	6762.15	1.86	6762.12	1.96	6762.12	2.84	6762.1
2.98	6762.1	3.83	6762.07	4	6762.07	4.81	6762.03	4.91	6762.02
5.02	6762.02	5.79	6761.98	5.91	6761.98	6.04	6761.97	6.77	6761.94
6.91	6761.93	7.06	6761.93	7.75	6761.89	7.91	6761.89	8.08	6761.88
8.73	6761.87	9.1	6761.87	9.71	6761.88	10.12	6761.88	10.69	6761.89
11.14	6761.89	11.67	6761.9	12.16	6761.9	12.66	6761.91	13.91	6761.91
14.2	6761.9	14.62	6761.89	14.91	6761.89	15.22	6761.88	15.6	6761.87
15.91	6761.87	16.24	6761.86	16.58	6761.85	16.91	6761.84	17.26	6761.83
17.56	6761.83	17.92	6761.82	18.28	6761.81	18.54	6761.8	18.92	6761.79
19.3	6761.76	19.52	6761.74	19.92	6761.71	20.32	6761.67	20.51	6761.66
20.92	6761.63	21.34	6761.59	21.49	6761.58	21.92	6761.55	22.36	6761.52
22.47	6761.51	22.92	6761.48	23.38	6761.46	23.45	6761.45	23.92	6761.43
24.43	6761.43	24.92	6761.44	27.93	6761.44	29.34	6761.44	29.5	6761.43
29.92	6761.43	30.32	6761.35	30.52	6761.44	30.92	6761.36	31.3	6761.19
31.54	6761.06	31.92	6760.89	32.28	6761.01	32.56	6761.1	32.92	6761.21
33.26	6761.27	33.58	6761.21	33.92	6761.27	34.24	6761.21	34.6	6761.15
34.92	6761.1	35.22	6761.05	35.62	6760.97	35.92	6760.92	36.2	6760.86
36.64	6760.76	36.92	6760.7	37.19	6760.64	37.66	6760.54	37.92	6760.49
38.17	6760.45	38.68	6760.36	38.92	6760.32	39.15	6760.25	39.7	6760.06
39.92	6759.99	40.13	6759.92	40.72	6759.72	40.86	6759.67	40.87	6759.67
40.92	6759.65	41.11	6759.59	41.74	6759.37	41.92	6759.31	42.09	6759.26
42.76	6759.02	42.92	6758.97	43.07	6758.92	43.78	6758.67	43.92	6758.62
44.05	6758.56	44.8	6758.2	44.92	6758.15	45.04	6758.09	45.82	6757.72
45.92	6757.67	46.02	6757.62	46.84	6757.23	46.92	6757.19	47	6757.16
47.86	6756.72	47.92	6756.69	47.98	6756.66	48.88	6756.21	48.92	6756.19
48.96	6756.17	49.9	6755.81	49.92	6755.8	49.94	6755.79	50.92	6755.41
51.01	6755.37	51.9	6755.03	51.92	6755.02	51.94	6755.01	52.89	6754.61
52.92	6754.59	52.96	6754.58	53.37	6754.4	53.87	6754.19	53.92	6754.17
53.98	6754.16	54.85	6754.04	54.92	6754.03	55	6754.02	55.83	6753.9
55.92	6753.89	56.02	6753.88	56.81	6753.76	56.92	6753.76	57.04	6753.74
57.79	6753.74	57.92	6753.73	58.06	6753.69	58.77	6752.7	58.84	6752.69
58.92	6752.67	59.08	6752.66	59.75	6753.08	59.92	6753.07	60.1	6753.11
60.74	6753.4	60.92	6753.44	61.12	6753.44	61.72	6753.46	61.92	6753.47
62.14	6753.5	62.7	6753.49	62.92	6753.52	63.16	6753.89	63.68	6754.76
63.92	6755.14	64.18	6755.35	64.66	6755.73	64.92	6755.94	65.2	6756.14
65.64	6756.24	65.86	6756.4	65.87	6756.41	65.92	6756.45	66.22	6756.54
66.62	6756.66	66.92	6756.76	67.24	6756.66	67.6	6756.85	67.92	6756.75
68.26	6756.61	68.58	6756.47	68.92	6756.32	69.28	6756.4	69.57	6756.46

69.92	6756.54	70.3	6756.62	70.55	6756.66	70.93	6756.74	71.32	6756.81
71.53	6756.79	71.93	6756.86	72.34	6756.9	72.51	6756.92	72.93	6756.95
73.05	6756.92	73.36	6756.82	73.49	6756.86	73.93	6756.72	74.39	6756.83
74.46	6756.84	74.93	6756.95	75.42	6757.05	75.43	6757.06	75.93	6757.16
76.4	6757.27	76.45	6757.23	76.93	6757.33	77.38	6757.41	77.48	6757.43
77.93	6757.51	78.35	6757.54	78.51	6757.59	78.93	6757.63	79.32	6757.66
79.54	6757.67	79.93	6757.7	80.29	6757.73	80.57	6757.77	80.93	6757.79
81.26	6757.83	81.6	6757.88	81.93	6757.91	82.24	6758	82.63	6758
82.93	6758.09	83.21	6758.21	83.66	6758.41	83.93	6758.52	84.18	6758.61
84.69	6758.5	84.93	6758.58	85.15	6758.41	85.73	6758.29	85.93	6758.13
86.13	6758.05	86.76	6758.1	86.93	6758.02	87.1	6758.03	87.79	6757.92
87.93	6757.93	88.07	6757.95	88.82	6758.07	88.93	6758.09	89.04	6758.1
89.85	6758.13	89.93	6758.14	90.01	6758.14	90.88	6758.18	90.99	6758.18
91.91	6758.22	91.96	6758.22	92.81	6758.25	92.93	6758.26	93.9	6758.34
93.93	6758.35	93.97	6758.35	94.87	6758.42	95	6758.42	95.85	6758.55
95.94	6758.56	96.03	6758.56	96.82	6758.69	96.94	6758.69	97.06	6758.71
97.79	6758.81	97.94	6758.84	98.09	6758.86	98.76	6758.95	98.94	6758.98
99.12	6758.98	99.74	6758.97	100.15	6758.97	100.71	6758.96	101.18	6758.96
101.68	6758.95	102.21	6758.95	102.65	6758.94	103.24	6758.94	103.62	6758.93
103.94	6758.93	104.27	6758.94	104.6	6758.96	104.94	6758.98	105.3	6758.99
105.57	6759	105.94	6759.02	106.33	6759.04	106.54	6759.05	106.94	6759.07
107.36	6759.08	107.51	6759.14	107.94	6759.16	108.39	6759.19	108.49	6759.18
108.94	6759.21	109.42	6759.23	109.46	6759.23	109.94	6759.24	110.43	6759.26
110.45	6759.26	110.94	6759.28	111.4	6759.28	111.48	6759.29	111.94	6759.3
112.37	6759.29	112.51	6759.28	112.94	6759.28	113.35	6759.25	113.55	6759.24
113.94	6759.21	114.32	6759.17	114.58	6759.15	114.94	6759.12	115.29	6759.09
115.61	6759.07	115.94	6759.04	116.26	6759.02	116.64	6759.04	116.94	6759.03
117.23	6759.03	117.67	6759.06	117.94	6759.05	118.21	6759.08	118.7	6759.11
118.94	6759.13	119.18	6759.15	119.73	6759.18	119.95	6759.19	120.15	6759.2
120.76	6759.23	120.95	6759.24	121.12	6759.25	121.79	6759.27	121.95	6759.29
122.1	6759.31	122.82	6759.34	122.95	6759.36	123.07	6759.38	123.85	6759.49
123.95	6759.5	124.04	6759.49	124.88	6759.39	124.95	6759.39	125.01	6759.38
125.91	6759.28	125.95	6759.28	125.98	6759.27	126.94	6759.16	126.96	6759.16
127.24	6759.13	127.93	6759.06	127.97	6759.06	128.9	6759.01	129	6759.01
129.87	6759.04	130.03	6759.04	130.08	6759.05	130.77	6759.11		

Manning's n Values		num= 4	
Sta	n Val	Sta	n Val
0	.016	27.93	.025
		40.87	.035
		65.87	.045

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	40.87	65.87	.3	.5

Downstream Deck/Roadway Coordinates							
num= 293							
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord
-25.06	6762.09	0	-24.77	6762.09	0	-24.75	6762.09
-24.72	6762.09	0	-23.75	6762.13	0	-23.36	6762.15
-22.76	6762.17	0	-22.75	6762.17	0	-22.74	6762.17
-21.77	6762.17	0	-21.75	6762.17	0	-21.72	6762.17
-20.79	6762.17	0	-20.75	6762.17	0	-20.7	6762.17
-19.8	6762.16	0	-19.75	6762.16	0	-19.69	6762.16
-18.82	6762.16	0	-18.75	6762.16	0	-18.67	6762.16
-17.83	6762.16	0	-17.75	6762.15	0	-17.65	6762.15
-16.85	6762.11	0	-16.75	6762.1	0	-16.64	6762.1
-15.87	6762.06	0	-15.75	6762.05	0	-15.62	6762.05
-14.88	6762.01	0	-14.75	6762	0	-14.6	6762
-13.9	6761.96	0	-13.74	6761.95	0	-13.59	6761.95
-12.91	6761.91	0	-12.74	6761.9	0	-12.57	6761.9
-11.93	6761.89	0	-11.74	6761.88	0	-11.56	6761.88
-10.94	6761.86	0	-10.74	6761.85	0	-10.54	6761.84
-9.96	6761.83	0	-9.74	6761.82	0	-9.52	6761.81
-8.97	6761.79	0	-8.74	6761.79	0	-8.51	6761.78
-7.99	6761.76	0	-7.74	6761.76	0	-7.49	6761.75
-7.01	6761.75	0	-6.74	6761.75	0	-6.47	6761.75
-6.02	6761.75	0	-5.74	6761.74	0	-5.46	6761.74
-5.04	6761.74	0	-4.74	6761.74	0	-4.44	6761.74
-4.05	6761.73	0	-3.74	6761.73	0	-3.42	6761.73
-3.07	6761.73	0	-2.74	6761.72	0	-2.41	6761.7
-2.08	6761.68	0	-1.74	6761.66	0	-1.39	6761.63
-1.1	6761.61	0	-.74	6761.59	0	-.38	6761.57

- .12	6761.55	0	.26	6761.52	0	.64	6761.5	0
.87	6761.48	0	1.26	6761.45	0	1.66	6761.43	0
1.85	6761.44	0	2.26	6761.41	0	2.67	6761.4	0
2.84	6761.38	0	3.26	6761.37	0	3.69	6761.36	0
3.82	6761.36	0	4.26	6761.35	0	4.71	6761.34	0
4.81	6761.34	0	5.26	6761.33	0	5.72	6761.33	0
5.79	6761.32	0	6.26	6761.32	0	6.74	6761.31	0
6.78	6761.31	0	7.26	6761.3	0	7.76	6761.27	0
8.26	6761.24	0	8.74	6761.21	0	8.77	6761.21	0
9.26	6761.19	0	9.73	6761.16	0	9.79	6761.16	0
10.26	6761.13	0	10.71	6761.11	0	10.81	6761.1	0
11.26	6761.08	0	11.7	6761.05	0	11.82	6761.05	0
12.26	6761.02	0	12.68	6760.97	0	12.84	6761	0
13.26	6760.95	0	13.67	6760.93	0	13.85	6760.93	0
14.26	6760.91	0	14.65	6760.9	0	14.87	6760.89	0
15.26	6760.88	0	15.63	6760.87	0	15.89	6760.85	0
16.26	6760.85	0	16.62	6760.86	0	16.9	6760.82	0
17.26	6760.84	0	17.6	6760.82	0	17.92	6760.81	0
18.26	6760.79	0	18.59	6760.78	0	18.94	6760.76	0
19.26	6760.75	0	19.57	6760.73	0	19.95	6760.72	0
20.26	6760.7	0	20.56	6760.69	0	20.97	6760.67	0
21.26	6760.66	0	21.54	6760.65	0	21.99	6760.63	0
22.26	6760.61	0	22.52	6760.58	0	23	6760.57	0
23.26	6760.54	0	23.51	6760.52	0	24.02	6760.49	0
24.26	6760.48	0	24.49	6760.46	0	25.04	6760.43	0
25.26	6760.42	0	25.48	6760.41	0	26.05	6760.38	0
26.26	6760.37	0	26.46	6760.35	0	27.07	6760.32	0
27.26	6760.31	0	27.45	6760.3	0	28.08	6760.28	0
28.26	6760.28	0	28.43	6760.27	0	29.1	6760.25	0
29.26	6760.24	0	31.26	6760.17	0	31.38	6760.17	0
32.15	6760.14	0	32.26	6760.14	0	32.37	6760.14	0
33.17	6760.12	0	33.26	6760.12	0	33.35	6760.12	0
34.18	6760.1	0	34.26	6760.1	0	34.34	6760.1	0
35.2	6760.09	0	35.26	6760.09	0	35.32	6760.09	0
36.22	6760.07	0	36.26	6760.07	0	36.31	6760.07	0
37.23	6760.05	0	37.26	6760.05	0	37.29	6760.05	0
38.25	6760.06	0	38.26	6760.06	0	38.27	6760.06	0
39.08	6760.08	0	39.26	6760.08	0	40.24	6760.09	0
40.26	6760.09	0	40.28	6760.09	0	41.23	6760.1	0
41.26	6760.1	0	41.3	6760.11	0	42.21	6760.12	0
42.26	6760.12	0	42.31	6760.12	0	43.2	6760.1	0
43.26	6760.1	0	43.33	6760.1	0	44.18	6760.08	0
44.26	6760.08	0	44.35	6760.08	0	45.17	6760.06	0
45.26	6760.06	0	45.36	6760.06	0	46.15	6760.04	0
46.26	6760.04	0	46.38	6760.04	0	47.13	6760.02	0
47.26	6760.02	0	47.4	6760.01	0	48.12	6759.88	0
48.26	6759.87	0	48.41	6759.87	0	49.1	6759.88	0
49.26	6759.87	0	49.43	6759.86	0	50.09	6759.83	0
50.26	6759.83	0	50.45	6759.82	0	51.07	6759.79	0
51.26	6759.78	0	51.46	6759.78	0	52.06	6759.75	0
52.26	6759.74	0	52.48	6759.73	0	53.04	6759.7	0
53.26	6759.68	0	53.49	6759.67	0	54.02	6759.77	0
54.26	6759.76	0	54.51	6759.74	0	55.01	6759.78	0
55.26	6759.76	0	55.53	6759.75	0	55.99	6759.78	0
56.26	6759.76	0	56.54	6759.75	0	56.98	6759.78	0
57.26	6759.76	0	57.56	6759.75	0	57.96	6759.58	0
58.26	6759.57	0	58.58	6759.57	0	58.95	6759.52	0
59.26	6759.52	0	59.59	6759.52	0	59.93	6759.62	0
60.26	6759.62	0	60.61	6759.63	0	60.92	6759.6	0
61.26	6759.61	0	61.63	6759.63	0	61.9	6759.74	0
62.26	6759.75	0	62.64	6759.74	0	62.88	6759.72	0
63.27	6759.71	0	63.66	6759.73	0	63.87	6759.68	0
64.27	6759.7	0	64.68	6759.69	0	64.85	6759.67	0
65.27	6759.66	0	65.69	6759.67	0	65.84	6759.64	0
66.27	6759.65	0	66.71	6759.65	0	66.82	6759.62	0
67.27	6759.62	0	67.72	6759.63	0	67.81	6759.63	0
68.27	6759.64	0	68.74	6759.65	0	68.79	6759.65	0
69.27	6759.65	0	69.55	6759.66	0	69.75	6759.66	0
69.79	6759.66	0	70.27	6759.66	0	70.64	6759.66	0
70.96	6759.66	0	71.28	6759.66	0	71.38	6759.67	0
71.55	6759.67	0	72.02	6759.67	0	72.28	6759.68	0

72.55	6759.68	0	73.02	6759.69	0	73.28	6759.69	0
73.55	6759.69	0	73.77	6759.69	0			

Downstream Bridge Cross Section Data

Station	Elevation	Data	num=	230				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta
0	6761.49	.59	6761.49	.76	6761.48	.92	6761.47	1.59
1.76	6761.43	1.93	6761.42	2.59	6761.38	2.76	6761.37	2.93
3.58	6761.32	3.76	6761.31	3.93	6761.28	4.58	6761.18	4.76
4.93	6761.12	5.58	6761.01	5.76	6760.98	5.93	6760.95	6.58
6.76	6760.84	6.94	6760.83	7.57	6760.81	7.76	6760.8	8.57
8.76	6760.79	8.94	6760.76	9.57	6760.64	9.76	6760.6	9.94
10.57	6760.45	10.76	6760.41	10.95	6760.38	11.57	6760.27	11.76
11.95	6760.17	12.56	6760.07	12.76	6760.01	12.95	6759.92	13.56
13.76	6759.57	13.95	6759.46	14.56	6759.17	14.76	6759.08	14.96
15.56	6758.69	15.76	6758.6	15.96	6758.5	16.55	6758.22	16.76
16.96	6758.02	17.55	6757.72	17.76	6757.63	17.96	6757.52	18.48
18.55	6757.23	18.76	6757.13	18.97	6757.01	19.55	6756.69	19.59
19.76	6756.57	19.96	6756.46	20.56	6756.13	20.76	6756.02	20.95
21.57	6755.57	21.76	6755.47	21.94	6755.37	22.59	6754.96	22.76
22.92	6754.76	23.6	6754.34	23.76	6754.24	23.91	6754.15	24.61
24.76	6753.46	24.9	6753.41	25.63	6753.14	25.76	6753.1	25.89
26.64	6752.81	26.75	6752.77	26.76	6752.77	26.87	6752.73	27.65
27.76	6752.44	27.86	6752.4	28.67	6752.02	28.76	6751.99	28.85
29.68	6751.55	29.76	6751.5	29.83	6751.51	30.69	6751.7	30.76
30.82	6751.72	30.98	6751.76	31.71	6751.91	31.76	6751.92	31.81
32.72	6752.12	32.76	6752.13	32.8	6752.14	32.99	6752.18	33.74
33.76	6752.34	33.78	6752.34	34.76	6752.24	34.83	6752.27	35.74
35.76	6752.66	35.78	6752.67	36.15	6752.82	36.72	6753.06	36.76
36.8	6753.13	37.7	6753.91	37.76	6753.97	37.82	6754.02	38.67
38.76	6754.86	38.85	6754.89	39.65	6755.2	39.76	6755.24	39.87
40.63	6755.58	40.76	6755.63	40.9	6755.68	41.58	6755.93	41.6
41.76	6756	41.92	6756.06	42.58	6756.3	42.76	6756.36	42.95
43.48	6756.55	43.56	6756.57	43.75	6756.63	43.96	6756.64	44.51
44.73	6756.68	44.97	6756.7	45.47	6756.73	45.71	6756.74	45.97
46.43	6756.78	46.69	6756.8	46.98	6756.82	47.38	6756.84	47.67
47.97	6756.88	48.34	6756.9	48.65	6756.92	48.98	6756.93	49.3
49.63	6756.94	49.98	6756.95	50.26	6756.95	50.61	6756.96	50.99
51.21	6756.97	51.59	6756.98	51.99	6756.99	52.17	6757	52.57
53	6757.02	53.13	6757.02	53.55	6757.04	54	6756.97	54.08
54.53	6756.9	55.01	6756.84	55.04	6756.86	55.51	6756.8	55.99
56	6756.77	56.48	6756.79	56.94	6756.8	57.01	6756.8	57.46
57.9	6756.95	58.01	6757.05	58.45	6757.18	58.86	6757.17	59.02
59.43	6757.14	59.81	6757.13	60.02	6757.12	60.41	6757.1	60.77
61.03	6757.08	61.39	6757.07	61.73	6757.05	62.03	6757.04	62.37
62.68	6757.02	63.04	6757	63.35	6756.99	64.03	6756.99	64.33
65.31	6756.98	65.55	6756.97	66.05	6756.97	66.29	6756.97	66.51
67.47	6756.96	68.05	6756.95	68.25	6756.95	68.42	6756.93	69.06
69.22	6756.87	69.38	6756.85	70.06	6756.79	70.2	6756.78	70.34
71.07	6756.71	71.18	6756.7	71.3	6756.69	72.06	6756.63	72.16
72.25	6756.61	73.07	6756.54	73.14	6756.54	73.21	6756.51	74.07
74.12	6756.21	74.17	6756.2	75.08	6756.15	75.12	6756.15	75.98

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
0	.016	5.76	.038
		41.58	.04

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	18.48	43.48	.3	.5

Ineffective Flow	num=	1
Sta L	Sta R	Elev
58.45	75.98	6757.18
		F

Upstream Embankment side slope	=	3 horiz. to 1.0 vertical
Downstream Embankment side slope	=	3 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.98
Elevation at which weir flow begins	=	
Energy head used in spillway design	=	
Spillway height used in design	=	
Weir crest shape	=	Broad Crested

Number of Culverts = 1

Culvert Name Shape Rise Span
Culvert #1 Circular 6
FHWA Chart # 2 - Corrugated Metal Pipe Culvert
FHWA Scale # 2 - Mitered to conform to slope
Solution Criteria = Highest U.S. EG
Culvert Upstrm Dist Length Top n Bottom n Depth Blocked Entrance Loss Coef Exit Loss Coef
6.56 80 .024 .024 0 .5 1
Upstream Elevation = 6751.73
Centerline Station = 59.13
Downstream Elevation = 6751.15
Centerline Station = 31.23

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 995.4

INPUT

Description:

Station	Elevation	Data	num=	230						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	6761.49	.59	6761.49	.76	6761.48	.92	6761.47	1.59	6761.44	
1.76	6761.43	1.93	6761.42	2.59	6761.38	2.76	6761.37	2.93	6761.36	
3.58	6761.32	3.76	6761.31	3.93	6761.28	4.58	6761.18	4.76	6761.15	
4.93	6761.12	5.58	6761.01	5.76	6760.98	5.93	6760.95	6.58	6760.87	
6.76	6760.84	6.94	6760.83	7.57	6760.81	7.76	6760.8	8.57	6760.8	
8.76	6760.79	8.94	6760.76	9.57	6760.64	9.76	6760.6	9.94	6760.56	
10.57	6760.45	10.76	6760.41	10.95	6760.38	11.57	6760.27	11.76	6760.23	
11.95	6760.17	12.56	6760.07	12.76	6760.01	12.95	6759.92	13.56	6759.65	
13.76	6759.56	13.95	6759.46	14.56	6759.17	14.76	6759.08	14.96	6758.98	
15.56	6758.69	15.76	6758.6	15.96	6758.5	16.55	6758.22	16.76	6758.12	
16.96	6758.02	17.55	6757.72	17.76	6757.63	17.96	6757.52	18.48	6757.26	
18.55	6757.23	18.76	6757.13	18.97	6757.01	19.55	6756.69	19.59	6756.67	
19.76	6756.57	19.96	6756.46	20.56	6756.13	20.76	6756.02	20.95	6755.91	
21.57	6755.57	21.76	6755.47	21.94	6755.37	22.59	6754.96	22.76	6754.86	
22.92	6754.76	23.6	6754.34	23.76	6754.24	23.91	6754.15	24.61	6753.54	
24.76	6753.46	24.9	6753.41	25.63	6753.14	25.76	6753.1	25.89	6753.06	
26.64	6752.81	26.75	6752.77	26.76	6752.77	26.87	6752.73	27.65	6752.47	
27.76	6752.44	27.86	6752.4	28.67	6752.02	28.76	6751.99	28.85	6751.93	
29.68	6751.55	29.76	6751.5	29.83	6751.51	30.69	6751.7	30.76	6751.71	
30.82	6751.72	30.98	6751.76	31.71	6751.91	31.76	6751.92	31.81	6751.93	
32.72	6752.12	32.76	6752.13	32.8	6752.14	32.99	6752.18	33.74	6752.33	
33.76	6752.34	33.78	6752.34	34.76	6752.24	34.83	6752.27	35.74	6752.65	
35.76	6752.66	35.78	6752.67	36.15	6752.82	36.72	6753.06	36.76	6753.09	
36.8	6753.13	37.7	6753.91	37.76	6753.97	37.82	6754.02	38.67	6754.78	
38.76	6754.86	38.85	6754.89	39.65	6755.2	39.76	6755.24	39.87	6755.29	
40.63	6755.58	40.76	6755.63	40.9	6755.68	41.58	6755.93	41.6	6755.94	
41.76	6756	41.92	6756.06	42.58	6756.3	42.76	6756.36	42.95	6756.41	
43.48	6756.55	43.56	6756.57	43.75	6756.63	43.96	6756.64	44.51	6756.67	
44.73	6756.68	44.97	6756.7	45.47	6756.73	45.71	6756.74	45.97	6756.76	
46.43	6756.78	46.69	6756.8	46.98	6756.82	47.38	6756.84	47.67	6756.86	
47.97	6756.88	48.34	6756.9	48.65	6756.92	48.98	6756.93	49.3	6756.93	
49.63	6756.94	49.98	6756.95	50.26	6756.95	50.61	6756.96	50.99	6756.97	
51.21	6756.97	51.59	6756.98	51.99	6756.99	52.17	6757	52.57	6757.01	
53	6757.02	53.13	6757.02	53.55	6757.04	54	6756.97	54.08	6756.96	
54.53	6756.9	55.01	6756.84	55.04	6756.86	55.51	6756.8	55.99	6756.81	
56	6756.77	56.48	6756.79	56.94	6756.8	57.01	6756.8	57.46	6756.82	
57.9	6756.95	58.01	6757.05	58.45	6757.18	58.86	6757.17	59.02	6757.16	
59.43	6757.14	59.81	6757.13	60.02	6757.12	60.41	6757.1	60.77	6757.09	
61.03	6757.08	61.39	6757.07	61.73	6757.05	62.03	6757.04	62.37	6757.03	
62.68	6757.02	63.04	6757	63.35	6756.99	64.03	6756.99	64.33	6756.98	
65.31	6756.98	65.55	6756.97	66.05	6756.97	66.29	6756.97	66.51	6756.96	
67.47	6756.96	68.05	6756.95	68.25	6756.95	68.42	6756.93	69.06	6756.88	
69.22	6756.87	69.38	6756.85	70.06	6756.79	70.2	6756.78	70.34	6756.77	
71.07	6756.71	71.18	6756.7	71.3	6756.69	72.06	6756.63	72.16	6756.62	
72.25	6756.61	73.07	6756.54	73.14	6756.54	73.21	6756.51	74.07	6756.23	
74.12	6756.21	74.17	6756.2	75.08	6756.15	75.12	6756.15	75.98	6756.11	

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .016 5.76 .038 41.58 .04

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
18.48 43.48 197.72 197.72 197.72 .3 .5
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
58.45 75.98 6757.18 F

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 995.2

INPUT

Description:

Station	Elevation	Data	num=	251						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	6761.98	.21	6761.98	.27	6761.97	.38	6761.97	.49	6761.96	
.67	6761.96	.77	6761.95	1.05	6761.95	1.13	6761.94	1.42	6761.94	
1.52	6761.93	1.8	6761.93	1.89	6761.92	2.08	6761.92	2.17	6761.91	
2.28	6761.91	2.36	6761.9	2.56	6761.9	2.65	6761.89	2.85	6761.89	
2.93	6761.88	3.01	6761.88	3.14	6761.87	3.21	6761.87	3.28	6761.86	
3.42	6761.85	3.56	6761.85	3.71	6761.84	3.78	6761.83	3.84	6761.83	
4	6761.82	4.06	6761.81	4.12	6761.81	4.28	6761.8	4.34	6761.8	
4.4	6761.78	4.57	6761.74	4.62	6761.72	4.68	6761.71	4.86	6761.67	
4.91	6761.66	4.96	6761.64	5.14	6761.6	5.19	6761.59	5.24	6761.58	
5.43	6761.53	5.47	6761.52	5.52	6761.51	5.71	6761.46	5.76	6761.45	
5.8	6761.45	6	6761.46	6.91	6761.46	7.15	6761.45	7.19	6761.45	
7.43	6761.43	7.47	6761.43	7.72	6761.36	7.73	6761.36	7.75	6761.35	
8.01	6761.28	8.03	6761.28	8.29	6761.21	8.3	6761.21	8.31	6761.2	
8.58	6761.13	8.59	6761.13	8.87	6761.03	8.87	6761.02	9.06	6760.95	
9.15	6760.92	9.3	6760.87	9.43	6760.82	9.44	6760.81	9.71	6760.8	
9.72	6760.8	9.98	6760.81	10	6760.81	10.01	6760.8	10.26	6760.68	
10.28	6760.68	10.3	6760.67	10.54	6760.58	10.56	6760.57	10.58	6760.56	
10.82	6760.47	10.85	6760.46	10.87	6760.45	11.1	6760.36	11.13	6760.35	
11.16	6760.34	11.38	6760.26	11.41	6760.25	11.44	6760.21	11.66	6759.91	
11.7	6759.88	11.73	6759.84	11.94	6759.6	11.98	6759.56	12.01	6759.52	
12.09	6759.43	12.53	6759.3	12.68	6759.25	12.84	6759.2	13.5	6758.99	
13.68	6758.94	13.87	6758.88	14.36	6758.72	14.47	6758.69	14.68	6758.62	
14.9	6758.51	15.44	6758.35	15.68	6758.22	15.94	6758.08	16.41	6757.84	
16.68	6757.69	16.97	6757.54	17.37	6757.33	17.68	6757.17	18	6757	
18.34	6756.82	18.68	6756.64	19.04	6756.45	19.31	6756.31	19.68	6756.11	
20.07	6755.89	20.28	6755.69	20.68	6755.47	21.1	6755.23	21.25	6755.15	
21.68	6754.91	22.14	6754.65	22.22	6754.6	22.68	6754.35	23.17	6754.08	
23.19	6754.06	23.68	6753.79	24.16	6753.52	24.2	6753.5	24.68	6753.23	
25.13	6752.97	25.23	6752.87	25.68	6752.61	26.1	6752.47	26.27	6752.46	
26.68	6752.33	26.86	6752.4	27.07	6752.5	27.3	6752.59	27.68	6752.76	
28.04	6752.91	28.33	6753.04	28.68	6753.19	29.01	6753.32	29.37	6753.49	
29.68	6753.62	29.98	6753.68	30.4	6753.93	30.68	6753.99	30.95	6754.11	
31.43	6754.32	31.69	6754.43	31.92	6754.54	32.47	6754.78	32.69	6754.88	
32.89	6754.99	33.5	6755.24	33.69	6755.34	33.86	6755.44	34.53	6755.71	
34.69	6755.8	34.83	6755.83	35.57	6755.94	35.69	6755.96	35.8	6755.98	
36.6	6756.1	36.63	6756.11	36.69	6756.12	36.7	6756.12	36.77	6756.13	
37.61	6756.26	37.69	6756.28	37.76	6756.29	38.63	6756.42	38.69	6756.43	
38.75	6756.44	39.36	6756.54	39.64	6756.58	39.69	6756.59	39.74	6756.6	
40.65	6756.71	40.69	6756.72	40.73	6756.73	41.66	6756.85	41.71	6756.85	
42.67	6756.98	42.7	6756.98	43.69	6757.11	43.94	6757.14	44.68	6757.24	
44.7	6757.24	45.67	6757.31	45.71	6757.31	46.66	6757.38	46.69	6757.38	
46.72	6757.39	47.65	6757.45	47.69	6757.46	47.73	6757.46	48.63	6757.53	
48.75	6757.53	49.62	6757.6	49.76	6757.6	50.61	6757.65	50.69	6757.65	
50.77	6757.66	51.6	6757.7	51.69	6757.71	51.78	6757.71	52.59	6757.75	
52.69	6757.76	52.79	6757.77	53.58	6757.81	53.69	6757.81	53.81	6757.82	
54.56	6757.86	54.69	6757.86	54.77	6757.87	54.82	6757.87	55.55	6757.89	
55.69	6757.89	55.83	6757.9	56.54	6757.91	56.69	6757.92	56.84	6757.92	
57.53	6757.94	57.69	6757.95	57.85	6757.95	58.52	6757.97	58.69	6757.97	
58.87	6757.95	59.51	6758	59.69	6757.97	59.88	6757.96	60.49	6757.86	
60.69	6757.85	60.89	6757.83	61.48	6757.75	61.69	6757.72	61.9	6757.7	

61.96 6757.7

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .016 2.65 .038 34.53 .04

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
20.28 34.53 127.75 127.76 127.75 .1 .3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 995

INPUT

Description:

Station Elevation Data num= 172

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.36	.25	6761.36	.27	6761.35	.34	6761.35	.35	6761.34
1.34	6761.26	1.4	6761.25	2.34	6761.17	2.35	6761.17	3.33	6761.08
3.36	6761.08	4.32	6760.79	4.34	6760.78	4.37	6760.78	5.31	6760.5
5.34	6760.49	5.37	6760.48	6.31	6760.2	6.34	6760.19	6.38	6760.18
7.3	6759.91	7.34	6759.89	7.39	6759.87	8.29	6759.61	8.34	6759.59
8.4	6759.56	9.28	6759.04	9.34	6759.01	9.4	6758.97	10.28	6758.46
10.34	6758.42	10.41	6758.38	11.27	6757.88	11.34	6757.84	11.42	6757.8
12.26	6757.31	12.34	6757.26	12.43	6757.22	13.25	6756.73	13.34	6756.69
13.44	6756.65	14.25	6756.33	14.34	6756.29	14.44	6756.25	15.24	6755.94
15.34	6755.9	15.45	6755.85	16.23	6755.55	16.34	6755.5	16.46	6755.46
17.22	6755.15	17.34	6755.11	17.47	6755.06	18.22	6754.76	18.34	6754.71
18.47	6754.68	19.21	6754.47	19.34	6754.44	19.48	6754.4	20.2	6754.2
20.34	6754.16	20.49	6754.12	21.19	6753.92	21.34	6753.88	21.5	6753.84
22.19	6753.65	22.34	6753.61	22.5	6753.56	23.18	6753.37	23.34	6753.33
23.51	6753.3	24.17	6753.18	24.19	6753.18	24.34	6753.15	24.52	6753.11
25.16	6753	25.34	6752.96	25.53	6752.93	26.16	6752.82	26.34	6752.78
26.54	6752.75	27.15	6752.64	27.34	6752.6	27.54	6752.57	28.14	6752.45
28.34	6752.42	28.55	6752.42	29.13	6752.4	29.34	6752.39	29.56	6752.39
30.13	6752.37	30.34	6752.37	30.57	6752.36	31.12	6752.35	31.34	6752.34
31.57	6752.34	32.11	6752.32	32.34	6752.31	32.58	6752.3	33.1	6752.29
33.34	6752.27	33.59	6752.17	34.1	6751.94	34.34	6751.83	34.6	6751.73
35.09	6751.5	35.34	6751.4	35.6	6751.37	36.08	6751.26	36.34	6751.22
36.61	6751.25	36.69	6751.29	37.07	6751.45	37.34	6751.47	37.56	6751.63
37.61	6751.67	38.14	6752.02	38.35	6752.17	38.51	6752.22	39.29	6752.44
39.36	6752.46	39.41	6752.48	39.52	6752.51	39.88	6752.61	40.31	6752.73
40.36	6752.75	40.43	6752.77	41.21	6752.99	41.37	6753.03	41.57	6753.09
42.11	6753.24	42.38	6753.32	42.72	6753.41	43.01	6753.49	43.39	6753.6
43.86	6753.54	43.91	6753.61	44.39	6753.54	47.41	6753.54	47.51	6753.55
48.44	6753.55	49.19	6753.74	49.31	6753.77	49.43	6753.8	49.58	6753.84
50.21	6753.8	50.44	6753.86	50.72	6753.87	51.11	6753.88	51.44	6753.89
51.87	6753.9	52.01	6753.9	52.45	6753.91	52.91	6753.93	53.01	6753.93
53.46	6753.94	53.81	6753.97	54.15	6754.01	54.46	6754.04	54.71	6754.06
55.3	6754.12	55.47	6754.13	55.61	6754.15	56.44	6754.22	56.48	6754.23
56.51	6754.23	56.75	6754.22	57.41	6754.18	57.49	6754.17	57.59	6754.17
58.31	6754.12	58.32	6754.12						

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .038 22.19 .038 43.39 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
22.19 43.39 0 0 0 .1 .3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-DE RS: 11692

INPUT

Description:

Station Elevation Data num= 11

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
415.91	6805.87	637.68	6803.97	722.61	6803.9	823.63	6802.88	828.61	6800.93
831.18	6799.93	840.84	6799.38	852.13	6799.92	861.68	6801.08	887.09	6804.16
972.55	6817.55								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
415.91	.06	823.63	.04	887.09	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	823.63	887.09		420 411.17	390.88		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-DE RS: 11280

INPUT

Description:

Station	Elevation	Data	num=	15					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
588.56	6797.39	663.2	6796.97	831.99	6795.47	981.56	6795.32	1038.02	6795.01
1066.23	6795.16	1079.97	6791.73	1082.66	6791.66	1102.17	6791.13	1117.11	6791.82
1128.62	6794.51	1129.73	6794.51	1214.64	6794.4	1305.56	6792.52	1344.92	6814.49

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
588.56	.06	1038.02	.04	1129.73	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1038.02	1129.73		570 566.57	485.84		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-DE RS: 10714

INPUT

Description:

Station	Elevation	Data	num=	18					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
738.45	6794.9	950.91	6794.29	1092.13	6793.49	1278.77	6794.19	1332.27	6790.66
1338.63	6789.24	1355.63	6788.82	1356.57	6789.41	1479.17	6789.86	1551.22	6786.44
1552.61	6786.37	1569.89	6783.81	1578.77	6790.87	1578.92	6790.97	1585.52	6795.47
1750.87	6800.09	1787.96	6811.06	1846.69	6816.47				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
738.45	.06	1278.77	.04	1585.52	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1278.77	1585.52		505.72 625.08	497.71		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
738.45	1278.77	6794.19	F
1585.52	1846.69	6795.47	F

CROSS SECTION

RIVER: Walton Creek
REACH: lower-DE RS: 9997

INPUT

Description:

Station	Elevation	Data	num=	18					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6799.52	32.21	6790.56	66.38	6786.26	69.45	6784.56	73.65	6782.24
83.3	6781.76	89.94	6782.33	102.35	6783.16	113.59	6783.92	247.13	6785.04

254.88	6783.74	394.82	6785.39	397.59	6783.43	418.67	6782.76	432.39	6783.36
436.95	6785.14	554.69	6784.03	576.99	6786.1				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	69.45	.04	113.59	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

69.45	113.59	498.86	617.68	510	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
467.68	576.99	6787	F

CROSS SECTION

RIVER: Walton Creek
REACH: lower-DE RS: 9471

INPUT

Description:

Station Elevation Data num= 24

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
165.84	6783.91	387.29	6783.83	518.81	6784.53	548.23	6782.94	724.7	6783.48
846.56	6785.35	861	6782.7	1038.1	6783.83	1272.58	6784.3	1524.02	6782.97
1585.99	6779.6	1698.12	6780.07	1701.86	6779.16	1737.4	6776.43	1742.23	6776.08
1750.39	6775.5	1760.21	6776.59	1765.17	6777.23	1766.48	6783.35	1787.38	6794.58
1787.4	6794.58	1787.41	6794.58	1795.02	6794.54	1820.51	6794.41		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
165.84	.06	1698.12	.04	1766.48	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

1698.12	1766.48	313.68	444.1	280.09	.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-DE RS: 9027

INPUT

Description:

Station Elevation Data num= 23

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6780	0	6775.83	173.67	6775.69	509.29	6777.88	806.71	6777.77
834.13	6775.44	918.02	6776.32	1115.95	6776.78	1185.87	6776.2	1196.12	6778.36
1432.2	6776.9	1497.74	6778.09	1538.77	6777.46	1615.06	6778.28	1636.06	6773.68
1643.98	6773.7	1665.36	6773.74	1688.26	6773.9	1696.18	6773.96	1709.98	6776.8
1807.12	6778.08	1813.63	6782.15	1845.09	6798.51				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1615.06	.04	1709.98	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

1615.06	1709.98	285.55	293.44	280.09	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	1615.06	6778.28	F
1709.98	1845.09	6776.8	F

CROSS SECTION

RIVER: Walton Creek
REACH: lower-DE RS: 8734

INPUT

Description:

Station Elevation Data										num=	22
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev		
-50	6778.2	0	6771.38	50.46	6772.1	258.79	6774.57	573.79	6774.57		
853.9	6774.73	977.79	6775.52	1363.04	6775.91	1475.62	6775.6	1518.36	6775.95		
1528.1	6772.39	1529.32	6772.35	1543.98	6771.83	1563.92	6772.32	1564.29	6772.34		
1594.06	6773.63	1685.1	6775.06	1709.11	6773.53	1712.5	6773.86	1724.31	6776.46		
1800.11	6779.29	1840.34	6793.84								

Manning's n Values						num=	3
Sta	n Val	Sta	n Val	Sta	n Val		
-50	.06	1518.36	.04	1724.31	.06		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1518.36	1724.31		275 331.69	275		.1	.3

Ineffective Flow				num=	2
Sta L	Sta R	Elev	Permanent		
-50	1375	6780	F		
1724.31	1840.34	6776.46	F		

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 8402

INPUT

Description:

Station Elevation Data										num=	38
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev		
-50	6776.65	-4.06	6772.88	4.85	6772.88	42.29	6773.17	192.67	6774.12		
233.69	6774.12	367.84	6773.22	523.08	6774.01	579.47	6774.32	780.41	6774.66		
844.65	6774.98	894.23	6775.1	1046.88	6775.02	1248.16	6775.42	1303.2	6775.42		
1351.59	6775.57	1390.85	6775.92	1402.4	6773.23	1403.84	6773.1	1404.19	6773.06		
1404.46	6773.04	1421.22	6772.45	1436.61	6772.92	1436.89	6772.94	1443.95	6773.24		
1448.26	6773.52	1459.86	6773.87	1477.13	6774.08	1530.11	6774.72	1548.64	6774		
1551.25	6774.17	1556.36	6774.9	1560.36	6776.06	1698.15	6779.02	1744.88	6778.47		
1795.32	6781.23	1805.06	6784.42	1842.8	6790.67						

Manning's n Values						num=	3
Sta	n Val	Sta	n Val	Sta	n Val		
-50	.06	1390.85	.04	1560.36	.06		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1390.85	1560.36		275 331.69	275		.1	.3

Ineffective Flow				num=	2
Sta L	Sta R	Elev	Permanent		
-50	1060	6780	F		
1560.365	1842.86	6776.065	F		

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 8070

INPUT

Description:

Station Elevation Data										num=	21
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev		
-50	6775.1	0	6774.25	171.2	6774.21	330.86	6771.88	523.77	6774.03		
765.48	6774.78	949.81	6774.35	1183.45	6775.1	1263.35	6775.88	1278.77	6773.79		
1279.08	6773.75	1298.46	6773.07	1314.46	6773.74	1317.5	6774.07	1337.82	6774.18		
1393.6	6774.49	1396.42	6775.67	1615.39	6779.47	1769.81	6775.67	1785.29	6780.6		
1845.27	6787.5										

Manning's n Values						num=	3
Sta	n Val	Sta	n Val	Sta	n Val		
-50	.06	1263.35	.04	1396.42	.06		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1263.35	1396.42		335 493.05	345.36		.1	.3

Ineffective Flow	num=	2
Sta L Sta R Elev Permanent		
-50 745 6780	F	
1396.42 1845.27 6775.67	F	

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 7577

INPUT

Description:

Station Elevation Data	num=	22
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev		
-50 6772.2 0 6767.31 455.55 6768.05 615.43 6767.45 649.69 6764.46		
656.34 6763.68 660.91 6764.89 672.06 6765.83 741.01 6766.88 948.06 6768.26		
956.75 6766.72 1419.51 6770.5 1485.64 6767.88 1505.99 6766.43 1509.48 6766.18		
1519.66 6765.79 1530.42 6766.3 1530.49 6766.31 1561.09 6769.97 1704.49 6771.02		
1872.69 6772.44 1884.84 6778.16		

Manning's n Values	num=	3
Sta n Val Sta n Val Sta n Val		
-50 .06 1419.51 .04 1561.09 .06		

Bank Sta: Left Right Lengths: Left Channel Right	Coeff Contr.	Expan.
1419.51 1561.09 132.77 132.77 132.77	.1	.3

Ineffective Flow	num=	2
Sta L Sta R Elev Permanent		
-50 430 6775	F	
1561.09 1884.84 6769.97	F	

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 7176.41

INPUT

Description:

Station Elevation Data	num=	492
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev		
-50 6771.28 -49.25 6771.26 -47.83 6771.25 -44.25 6771.28 -39.25 6771.21		
-37.81 6771.18 -34.25 6771.05 -29.25 6770.12 -27.78 6769.88 -24.25 6769.18		
-22.77 6769.02 -19.25 6768.7 -14.25 6767.87 -12.74 6767.89 -9.25 6767.61		
-5.78 6766.56 -4.25 6766.07 -2.72 6766.38 .75 6767.16 2.29 6766.93		
5.75 6766.72 7.31 6766.73 10.75 6766.72 12.32 6766.75 15.75 6766.76		
17.33 6766.73 22.34 6766.71 25.75 6766.57 27.35 6766.56 30.75 6766.66		
32.37 6766.67 35.75 6766.72 39.11 6766.7 40.75 6766.73 45.75 6766.88		
52.42 6766.97 55.75 6767.07 57.43 6767.07 60.75 6767.04 62.44 6767.09		
65.75 6767.25 67.45 6767.34 70.75 6767.47 72.47 6767.42 75.75 6767.27		
77.48 6767.23 80.75 6767.26 84 6767.26 85.75 6767.25 87.5 6767.21		
90.75 6766.99 92.52 6767.01 97.53 6766.98 100.75 6766.99 102.54 6766.98		
105.75 6767.01 107.55 6766.96 110.75 6766.9 112.57 6766.8 115.75 6766.44		
117.58 6766.44 120.75 6766.54 122.59 6766.53 125.75 6766.42 128.89 6766.34		
132.62 6766.21 135.75 6766.32 137.63 6766.32 140.75 6766.37 142.64 6766.46		
145.75 6766.48 147.65 6766.6 150.75 6766.63 152.67 6766.56 155.75 6766.46		
157.68 6766.43 160.75 6766.49 162.69 6766.32 165.75 6766.13 167.7 6766.2		
170.75 6766.26 173.78 6766.42 175.75 6766.54 177.73 6766.61 180.75 6766.69		
182.74 6766.63 185.75 6766.63 187.75 6766.61 190.75 6766.51 192.77 6766.55		
195.75 6766.58 197.78 6766.62 202.79 6766.67 205.75 6766.75 207.8 6766.79		
210.75 6766.76 212.82 6766.78 215.75 6766.85 218.67 6767.42 220.75 6767.67		
222.84 6768.32 225.75 6768.96 227.85 6769.2 230.75 6769.67 232.86 6770.11		
235.75 6770.21 237.88 6770.99 240.75 6771.41 242.89 6771.61 245.75 6771.96		
247.9 6772.27 250.75 6772.58 252.91 6772.84 255.75 6773.03 257.93 6773.21		
260.75 6773.36 263.56 6773.47 265.75 6773.46 270.75 6773.71 272.98 6773.93		
275.75 6774.15 280.75 6774.59 283.04 6774.84 285.75 6775.1 288.05 6775.06		
290.75 6774.91 293.06 6774.64 295.75 6774.25 300.75 6773.78 303.09 6773.65		
305.75 6773.46 308.4 6773.19 310.75 6773 313.12 6772.79 315.75 6772.58		
318.13 6772.47 320.75 6772.37 323.14 6772.3 325.75 6772.19 330.75 6771.86		
333.17 6771.64 335.75 6771.42 338.18 6771.11 340.75 6770.9 343.19 6770.76		

345.75	6770.67	348.21	6770.61	350.75	6770.58	353.28	6770.56	355.75	6770.5
358.23	6770.59	360.75	6770.71	363.24	6770.94	365.75	6771.22	368.26	6771.6
370.75	6771.92	375.75	6772.53	378.28	6772.76	380.75	6772.96	383.29	6773.4
385.75	6773.77	388.31	6774.19	390.75	6774.66	393.32	6775.06	395.75	6775.39
398.17	6775.62	400.75	6775.93	405.75	6776.07	408.36	6776.04	410.75	6776
413.37	6775.92	415.75	6775.87	418.38	6775.73	423.4	6775.24	425.75	6775.02
428.41	6774.78	430.75	6774.45	433.43	6774.2	435.75	6773.88	440.75	6772.67
443.04	6772.2	445.75	6771.59	448.47	6770.8	450.75	6770.53	453.49	6770.08
455.75	6769.76	458.5	6769.36	460.75	6769.05	463.52	6769.1	465.75	6768.89
468.53	6768.68	470.75	6768.41	473.55	6768.39	475.75	6768.1	480.75	6767.78
485.75	6767.61	487.91	6767.63	490.75	6767.43	493.61	6767.17	495.75	6767.11
498.63	6766.92	500.75	6766.87	503.64	6767.1	505.75	6767.33	508.66	6767.08
510.75	6767.01	513.67	6766.56	515.75	6766.23	518.69	6765.98	520.75	6766.02
523.7	6765.83	525.75	6765.66	528.72	6765.62	530.75	6765.52	532.77	6765.56
535.75	6765.5	538.75	6766.1	540.75	6766.54	543.76	6766.75	545.75	6766.75
548.78	6766.56	550.75	6766.62	553.79	6766.87	555.75	6766.98	558.81	6766.96
560.75	6766.84	563.82	6767.03	565.75	6767.1	568.84	6767.28	570.75	6767.42
573.85	6767.67	575.75	6767.88	577.64	6767.91	580.75	6767.9	583.88	6767.99
585.75	6767.93	588.9	6767.97	590.75	6768.05	593.91	6768.15	595.75	6768.19
598.93	6768.16	600.75	6768.18	603.9	6768.19	605.75	6768.12	608.93	6768.13
610.81	6768.18	613.98	6768.37	615.75	6768.44	618.99	6768.36	620.75	6768.36
622.51	6768.29	625.75	6768.13	629.02	6768.1	630.75	6768.07	634.03	6768.11
635.75	6768.16	639.04	6768.1	640.75	6768.12	644.06	6768.18	645.75	6768.14
649.07	6768.12	650.75	6768.07	654.08	6767.99	655.75	6767.99	659.1	6767.96
664.11	6768.08	665.75	6768.07	669.13	6767.98	672.37	6768.03	675.75	6768.15
679.15	6768.17	684.17	6768.23	685.75	6768.16	689.18	6768.17	690.75	6768.21
694.19	6768.21	695.75	6768.24	699.21	6768.22	704.22	6768.41	705.75	6768.36
709.23	6768.32	710.75	6768.31	714.25	6768.24	715.75	6768.15	717.25	6768.22
720.75	6768.27	724.28	6768.36	725.75	6768.41	730.75	6768.37	734.3	6768.33
735.75	6768.32	739.32	6768.27	740.75	6768.24	745.75	6768.39	750.75	6768.5
754.36	6768.51	755.75	6768.53	759.37	6768.42	760.75	6768.37	765.75	6768.59
769.4	6768.62	770.75	6768.64	775.75	6768.5	779.43	6768.49	780.75	6768.52
784.44	6768.57	785.75	6768.62	789.45	6768.56	790.75	6768.5	794.47	6768.52
795.75	6768.55	799.48	6768.58	800.75	6768.57	804.49	6768.51	805.75	6768.46
809.51	6768.34	810.75	6768.29	814.52	6768.11	815.75	6768.11	819.53	6768.24
824.55	6768.25	825.75	6768.26	829.56	6767.97	830.75	6767.99	834.58	6767.71
835.75	6767.7	839.59	6767.14	840.75	6766.95	844.6	6766.57	845.75	6766.54
849.62	6765.72	850.75	6765.37	854.63	6765.47	855.75	6765.39	859.64	6765.49
860.75	6765.47	864.66	6765.38	865.75	6765.37	869.67	6765.26	870.75	6765.2
874.68	6765.03	875.75	6765.03	879.7	6765.08	880.75	6765.11	884.71	6765.34
885.75	6765.37	889.72	6765.43	890.75	6765.44	896.76	6765.36	900.75	6765.26
905.75	6765.37	909.78	6765.31	910.75	6765.33	915.75	6765.5	919.83	6765.21
920.69	6765.11	920.75	6765.1	924.85	6765.4	925.75	6765.38	927.51	6765.46
929.87	6765.58	930.75	6765.59	934.87	6766	935.75	6766.06	939.87	6766.37
941.57	6766.42	944.88	6766.53	945.75	6766.49	949.89	6766.47	950.75	6766.51
954.9	6766.21	955.75	6766.23	959.92	6766.29	960.75	6766.31	965.75	6766.62
969.94	6766.83	970.75	6766.83	974.96	6766.43	975.75	6766.37	979.97	6766.71
980.75	6766.74	981.53	6766.72	985.75	6766.56	990	6766.59	990.75	6766.56
995.01	6766.42	995.75	6766.42	1000.03	6766.32	1000.75	6766.33	1005.04	6766.56
1005.75	6766.54	1010.05	6766.14	1010.75	6766.14	1015.07	6765.84	1015.75	6765.85
1020.08	6765.55	1020.75	6765.59	1025.75	6765.38	1030.11	6765.27	1035.12	6765.29
1035.75	6765.27	1040.14	6765.23	1040.75	6765.21	1045.75	6765.24	1050.17	6765.2
1050.75	6765.2	1055.18	6764.99	1055.75	6764.97	1060.19	6765	1060.75	6764.99
1065.21	6764.98	1065.75	6764.99	1070.22	6765.21	1070.75	6765.26	1075.23	6765.3
1076.27	6765.28	1080.75	6765.18	1085.26	6765.14	1085.75	6765.13	1090.28	6765.08
1100.3	6765.06	1100.75	6765.1	1105.32	6765.25	1105.75	6765.28	1110.33	6765.53
1110.75	6765.56	1115.34	6765.81	1115.75	6765.84	1120.36	6766.23	1120.75	6766.24
1125.37	6767.03	1125.75	6767.07	1130.39	6767.24	1135.75	6767.43	1140.75	6767.41
1145.43	6767.8	1150.75	6768.17	1155.45	6768.55	1155.75	6768.59	1160.47	6769.04
1161.04	6769.05	1165.75	6769.23	1170.5	6769.12	1170.75	6769.1	1175.51	6769.18
1175.75	6769.17	1180.52	6769.36	1180.75	6769.36	1185.75	6769.05	1190.55	6768.64
1190.75	6768.64	1195.56	6768.78	1195.75	6768.78	1200.75	6769.13	1205.75	6769.08
1210.61	6768.99	1215.62	6768.68	1215.75	6768.68	1220.63	6768.89	1220.69	6768.89
1225.65	6769.14	1225.75	6769.15	1230.66	6769.28	1230.75	6769.29	1235.75	6769.5
1240.69	6769.09	1240.75	6769.08	1245.7	6769.45	1250.75	6769.34	1255.73	6769.47
1260.75	6769.49	1265.75	6769.39	1270.75	6769.28	1275.75	6769.19	1280.75	6769.14
1280.8	6769.13	1285.75	6768.96	1290.83	6768.88	1295.75	6768.59	1300.85	6768.76
1305.75	6769.05	1310.75	6769.4	1311.75	6769.4	1311.75	6769.09	1318.66	6769.76
1418.49	6770.25	1509.04	6770.83	1553.8	6771.14	1572.11	6773.17	1728.53	6774.98
1732.35	6775	1748.48	6778.83						

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 -50 .06 835.75 .04 1135.75 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 835.75 1135.75 163.08 163.08 163.08 .1 .3

Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 -50 406.04 6776.07 F
 1165.73 1748.48 6771.14 F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 6775.68

INPUT

Description:

Station	Elevation	Data	num=	496							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6770.42	1.28	6770.42	6	6770.18	7.28	6770.11	10.92	6770.2		
12.28	6770.21	17.28	6769.98	20.77	6769.91	22.28	6769.89	25.69	6769.67		
27.28	6769.48	30.61	6768.83	32.28	6768.63	37.28	6767.24	40.45	6766.43		
42.28	6765.98	44.17	6765.37	47.28	6764.55	50.3	6764.99	52.28	6765.42		
55.22	6765.49	57.28	6765.53	60.14	6765.67	62.28	6765.76	65.06	6765.69		
67.28	6765.57	69.98	6765.54	72.28	6765.43	74.9	6765.27	77.29	6765.16		
79.83	6765.12	82.29	6765.14	84.75	6765.21	87.29	6765.34	89.91	6765.32		
92.29	6765.24	94.59	6765.26	97.29	6765.19	99.51	6765.08	102.29	6764.98		
104.43	6764.92	107.29	6764.9	112.29	6764.7	114.28	6764.72	117.29	6764.77		
119.2	6764.79	122.29	6764.66	124.12	6764.78	127.29	6764.96	132.29	6764.98		
135.65	6765.03	137.29	6764.99	138.89	6765.04	142.29	6764.97	143.81	6765		
147.29	6765.2	148.73	6765.2	152.3	6765.24	153.65	6765.17	157.3	6764.88		
158.57	6764.79	163.49	6764.82	167.3	6764.91	168.42	6765	172.3	6765.14		
173.34	6765.2	177.3	6765.18	181.39	6764.93	183.18	6764.94	187.3	6765.14		
188.1	6765.15	193.02	6765.13	197.3	6765.01	202.3	6764.86	202.87	6764.86		
207.3	6764.98	207.79	6765	212.3	6765.44	217.3	6765.47	217.63	6765.46		
227.13	6765.58	232.4	6765.56	237.31	6765.28	242.31	6765.23	247.31	6765.55		
252.31	6765.7	257.01	6765.76	257.31	6765.77	261.93	6766.06	262.31	6766.09		
266.85	6766.2	267.79	6766.17	272.31	6766.15	276.69	6766.56	277.31	6766.59		
281.61	6766.72	282.31	6766.75	286.54	6766.68	287.31	6766.7	291.46	6766.61		
292.31	6766.54	296.38	6766.55	297.31	6766.66	301.3	6766.96	302.31	6766.99		
306.22	6767.06	307.32	6767.03	311.14	6767.06	313.53	6766.96	317.32	6766.47		
320.99	6766.26	322.32	6766.05	325.91	6766.34	327.32	6766.32	330.83	6766.4		
332.32	6766.41	335.75	6765.14	337.32	6764.61	340.67	6764.22	342.32	6764.11		
345.6	6763.84	347.32	6763.87	350.52	6763.89	352.32	6763.92	355.44	6764.16		
357.32	6764.23	359.27	6764.22	362.32	6763.97	365.28	6764.11	367.32	6764.01		
370.2	6764.13	372.32	6764.29	375.13	6764.22	377.32	6764.21	380.05	6764.21		
382.32	6764.18	384.97	6764.09	387.33	6764.05	389.89	6764.08	392.33	6764.16		
394.81	6764.22	397.33	6764.14	399.73	6764.19	402.33	6764.23	405.01	6764.16		
407.33	6764.07	409.58	6763.94	412.33	6763.76	414.5	6763.88	419.42	6764.07		
422.33	6764.27	429.26	6764.17	432.33	6764.09	434.19	6764.06	437.33	6764.11		
439.11	6764.13	442.33	6764.05	444.03	6764	447.33	6763.93	450.75	6763.95		
452.33	6763.94	453.87	6764.06	457.33	6764.38	458.79	6764.37	462.34	6764.49		
463.72	6764.57	467.34	6764.41	468.64	6764.42	472.34	6764.53	473.56	6764.51		
477.34	6764.83	478.48	6764.91	482.34	6764.87	483.4	6764.87	488.32	6764.68		
492.34	6764.61	496.49	6764.9	497.34	6764.91	498.17	6764.96	502.34	6764.93		
507.34	6765.04	508.01	6765.1	512.34	6765.29	512.93	6765.38	517.34	6766.26		
517.85	6766.29	522.34	6766.88	522.78	6766.87	527.34	6766.87	527.7	6766.85		
532.34	6766.3	537.34	6766.18	542.23	6766.25	542.46	6766.27	547.35	6766.57		
552.31	6766.85	557.23	6766.96	557.35	6766.97	562.15	6767.12	562.35	6767.12		
567.07	6766.83	567.35	6766.84	571.99	6766.09	572.35	6766.06	576.91	6765.59		
577.35	6765.51	581.84	6764.85	582.88	6764.78	587.35	6765.57	591.68	6765.51		
592.35	6765.49	596.6	6764.85	601.52	6764.6	602.35	6764.58	606.44	6764.79		
607.35	6764.88	611.37	6765.01	612.35	6764.96	616.29	6764.98	617.36	6765.01		
621.21	6764.85	622.36	6764.84	626.13	6765.36	627.36	6765.51	628.62	6765.83		
632.36	6766.17	635.97	6767.31	637.36	6767.47	640.9	6767.74	642.36	6767.73		
645.82	6767.53	647.36	6767.47	650.74	6767.26	652.36	6767.19	655.66	6766.93		
657.36	6766.87	660.58	6766.78	662.36	6766.84	665.5	6767.02	670.43	6767.23		
672.36	6767.24	674.36	6767.27	677.36	6767.29	680.27	6767.39	682.36	6767.32		
685.19	6767.17	687.36	6767.03	690.11	6766.95	692.36	6766.87	695.03	6766.8		

697.37	6766.85	699.96	6766.79	702.37	6766.75	704.88	6766.93	707.37	6766.92
709.8	6766.76	712.37	6766.76	714.72	6766.73	717.37	6766.63	719.64	6766.47
722.37	6766.5	727.37	6766.41	729.49	6766.39	734.41	6766.28	737.37	6765.99
739.33	6766.03	742.37	6765.84	744.25	6765.41	747.37	6764.91	749.17	6764.87
752.37	6765.07	754.09	6765.13	757.37	6765.19	759.02	6765.32	762.37	6765.66
765.84	6765.48	767.37	6765.46	770.92	6765.44	772.38	6765.42	773.78	6765.69
777.38	6766.41	778.7	6766.5	782.38	6766.82	783.62	6766.88	788.55	6766.99
792.38	6767.15	793.47	6767.24	797.38	6767.71	798.39	6767.87	802.38	6768.28
803.31	6768.17	807.38	6768.05	808.23	6767.95	812.38	6767.12	816.66	6766.82
817.38	6766.78	818.07	6766.71	822.38	6766.5	827.38	6765.42	827.92	6765.44
832.38	6765.16	833.69	6765.16	837.38	6765.16	837.76	6765.17	842.68	6765.17
847.6	6765.16	852.39	6765.56	857.39	6766.18	857.45	6766.18	858.69	6766.28
862.37	6766.59	867.29	6766.58	867.39	6766.59	872.39	6767.49	877.13	6766.57
877.39	6766.51	882.06	6765.73	882.39	6765.7	886.98	6765.94	887.39	6765.92
891.9	6766.52	892.39	6766.54	896.82	6766.59	897.39	6766.65	901.74	6766.92
902.39	6766.99	906.66	6767.02	911.59	6766.9	912.39	6766.95	916.51	6766.73
917.39	6766.64	921.43	6766.78	922.39	6766.78	926.35	6767.18	927.4	6767.28
931.27	6767.25	932.4	6767.28	936.19	6767.25	937.4	6767.25	941.12	6767.28
942.4	6767.25	947.4	6767.36	948.8	6767.4	952.4	6767.26	957.4	6767.2
960.8	6767	962.4	6766.84	965.72	6767.12	967.4	6767.23	970.65	6767.3
972.4	6767.37	975.57	6767.12	977.4	6766.95	980.49	6766.86	982.4	6766.79
985.41	6766.91	987.4	6767.07	990.33	6767.2	992.4	6767.19	995.25	6766.97
997.4	6766.86	1000.18	6766.92	1002.4	6766.92	1005.1	6766.91	1007.41	6766.94
1010.02	6767.04	1012.41	6767.06	1017.41	6766.91	1019.86	6766.71	1022.41	6766.52
1024.78	6766.5	1027.41	6766.5	1029.71	6766.9	1032.41	6767.26	1035.2	6767.22
1037.41	6767.06	1039.55	6767.16	1042.41	6767.07	1044.47	6767.12	1047.41	6767.49
1049.39	6767.46	1052.41	6767.32	1054.31	6767.36	1057.41	6767.34	1059.24	6767.4
1062.41	6767.58	1064.16	6767.62	1067.41	6767.57	1072.41	6767.45	1074	6767.35
1077.41	6767.28	1078.92	6767.27	1082.41	6767.41	1083.84	6767.49	1087.42	6767.42
1088.77	6767.52	1092.42	6767.64	1093.69	6767.86	1097.42	6768.46	1098.61	6768.45
1102.42	6768.77	1103.53	6768.78	1108.45	6768.7	1112.42	6768.79	1113.37	6768.79
1117.42	6768.58	1122.42	6768.53	1123.22	6768.57	1127.42	6768.84	1133.06	6768.87
1137.98	6768.67	1142.42	6768.36	1147.42	6768.51	1147.83	6768.51	1152.42	6768.64
1152.75	6768.66	1157.42	6769.21	1157.67	6769.26	1162.43	6770.33	1167.43	6771.95
1167.51	6771.97	1172.43	6773.76	1172.95	6773.94	1177.36	6775.4	1182.28	6775.81
1187.2	6776.33	1187.43	6776.34	1192.43	6776.36	1197.04	6776.56	1197.43	6776.55
1201.96	6776.29	1206.89	6776.32	1207.43	6776.31	1211.81	6776.05	1213.08	6775.99
1217.43	6775.81	1221.65	6775.52	1222.43	6775.48	1226.57	6775.13	1227.43	6775.15
1231.49	6775.35	1232.43	6775.34	1237.43	6775.4	1241.34	6775.42	1242.44	6775.41
1247.44	6775.54	1251.18	6775.67	1252.44	6775.61	1257.44	6775.67	1261.02	6775.79
1262.44	6775.82	1265.95	6775.85	1267.44	6775.95	1270.87	6776.04	1272.44	6775.99
1275.79	6776.4	1277.44	6776.29	1280.71	6775.69	1282.44	6775.36	1285.63	6776.04
1287.44	6776.28	1290.55	6776.24	1292.44	6776.44	1295.48	6776.19	1297.44	6775.98
1300.4	6775.74	1302.44	6775.34	1305.32	6775.09	1307.44	6774.31	1309.64	6773.2
1312.44	6772.15	1315.16	6770.36	1317.45	6769.22	1320.08	6767.86	1322.45	6767.7
1325.01	6767.22	1327.45	6767.13	1329.93	6766.99	1332.45	6766.91	1334.85	6766.91
1337.45	6766.94	1339.77	6766.83	1342.45	6766.73	1344.69	6766.8	1347.45	6766.82
1349.61	6766.8	1354.54	6766.89	1357.45	6766.84	1359.46	6766.84	1364.38	6766.92
1367.45	6766.95	1419.83	6770.98	1442.67	6774.91	1637.78	6777.54	1642.55	6777.55
1662.67	6779.49								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	818.07	.04	862.37	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	818.07	862.37		132.85	132.85	132.85		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	802.26	6768.28	F
1103.4	1662.67	6770	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 6375

INPUT
 Description:
 Station Elevation Data num= 494

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6766.21	.32	6766.21	.32	6769.33	1.32	6769.31	4.73	6769.22
6.33	6769.15	9.57	6769.12	11.33	6769.08	14.41	6768.96	19.25	6768.74
21.34	6768.66	24.09	6768.5	26.34	6768.3	28.93	6767.32	31.34	6766.53
33.77	6765.93	36.34	6765.36	39.1	6764.59	41.35	6764.08	43.45	6764.12
46.35	6764.2	48.29	6764.52	51.35	6764.72	53.13	6764.8	56.36	6765.21
57.97	6765.22	61.36	6764.76	62.81	6764.44	66.36	6764.14	67.65	6764.08
71.36	6763.94	72.49	6763.92	76.37	6763.95	81.37	6763.74	85.69	6763.82
86.37	6763.84	87.01	6763.83	91.85	6763.84	96.38	6763.97	96.69	6763.97
101.38	6764.2	101.53	6764.22	106.38	6764.51	111.21	6765.01	116.39	6765.33
121.39	6765.66	126.39	6765.66	131.4	6765.59	135.41	6765.53	136.4	6765.55
140.25	6765.6	141.4	6765.56	146.41	6765.55	149.93	6765.46	151.41	6765.41
156.41	6765.35	159.61	6765.37	161.41	6765.37	164.45	6765.36	166.42	6765.32
169.29	6765.31	173.7	6765.41	176.42	6765.44	178.97	6765.54	181.43	6765.54
183.81	6765.6	186.43	6765.61	188.65	6765.56	191.43	6765.51	193.49	6765.54
196.43	6765.51	198.33	6765.53	201.44	6765.65	203.17	6765.62	206.44	6765.63
208.01	6765.54	211.44	6765.46	212.84	6765.47	216.45	6765.65	220.3	6765.42
226.45	6765.39	227.36	6765.38	231.45	6765.41	232.2	6765.42	236.46	6765.36
237.04	6765.34	241.46	6765.23	241.88	6765.23	246.46	6765.39	246.72	6765.42
251.56	6765.49	256.47	6765.32	258.41	6765.24	261.72	6765.09	266.47	6765.15
270.92	6763.67	271.48	6763.54	275.76	6762.98	276.48	6762.84	280.6	6762.48
281.48	6762.45	284.93	6762.5	285.44	6762.51	286.49	6762.4	290.28	6762.33
291.49	6762.36	296.49	6762.24	299.96	6762.67	301.49	6762.65	304.8	6762.63
306.5	6762.85	308.31	6762.97	311.5	6763.5	314.48	6763.63	316.5	6763.95
319.32	6763.89	321.51	6763.76	324.16	6763.94	326.51	6763.95	329	6763.97
331.51	6764.11	333.84	6764.17	336.51	6764.34	338.68	6764.76	341.52	6765.34
343.52	6765.29	346.52	6764.75	348.36	6764.58	351.52	6764.57	354.91	6764.74
356.53	6764.95	358.04	6764.77	361.53	6764.57	362.88	6764.44	366.53	6764.28
367.72	6764.36	371.53	6764.68	372.56	6764.64	376.54	6764.24	377.4	6764.22
381.54	6764.21	382.24	6764.27	386.54	6764.49	387.08	6764.41	391.55	6764.08
396.55	6764.21	401.6	6764.69	406.44	6764.87	406.55	6764.89	411.28	6765.44
411.56	6765.45	416.12	6765.17	416.56	6765.17	420.96	6765.12	421.56	6765.12
425.8	6765.05	426.57	6765.07	430.64	6764.9	431.57	6764.92	435.48	6765.31
436.57	6765.24	440.32	6764.7	441.57	6764.58	442.92	6764.63	446.58	6764.39
450	6764.16	451.58	6763.99	454.84	6763.97	456.58	6763.84	459.68	6764.27
461.58	6764.42	464.52	6764.13	466.59	6764.15	469.36	6764.41	471.59	6764.21
474.2	6764.02	476.59	6764.3	479.03	6764.18	481.6	6764.26	483.87	6764.41
486.6	6764.27	489.51	6764.02	491.6	6763.78	493.55	6764.02	496.6	6764.74
498.39	6764.9	501.61	6764.75	503.23	6764.94	506.61	6765.59	508.07	6765.83
511.61	6766.17	512.91	6766.21	516.62	6766.4	517.75	6766.41	521.62	6766.3
522.59	6766.28	526.62	6766.24	527.43	6766.21	531.62	6766.09	536.11	6766.15
541.63	6766.3	546.63	6766.26	551.52	6765.98	551.63	6765.97	556.47	6766.33
556.64	6766.31	561.31	6766.85	561.64	6766.95	566.15	6766.7	566.64	6766.65
570.99	6766.39	571.65	6766.34	575.83	6766.58	576.65	6766.49	577.53	6766.56
581.65	6766.76	585.51	6766.51	586.66	6766.4	591.66	6765.9	595.19	6765.99
596.66	6765.98	600.03	6765.78	601.66	6765.9	604.87	6765.45	606.67	6765.44
609.71	6766.41	611.67	6766.64	614.55	6766.35	616.67	6766.4	619.39	6766.44
621.68	6766.11	626.68	6765.9	631.68	6766.43	633.91	6766.47	636.68	6766.62
638.75	6766.52	641.69	6766.51	643.59	6766.54	646.69	6766.56	648.43	6766.45
651.69	6766.3	653.27	6766.33	656.7	6766.31	658.11	6766.29	661.7	6766.36
662.95	6766.35	666.7	6766.4	670.72	6766.4	671.7	6766.42	672.63	6766.41
676.71	6766.5	681.71	6766.68	682.31	6766.67	686.71	6766.68	691.72	6766.82
696.72	6766.98	701.72	6766.93	706.51	6766.91	711.35	6767.08	711.73	6767.1
716.19	6766.93	717.31	6766.87	721.73	6766.5	725.87	6766.42	726.74	6766.35
730.71	6766.33	731.74	6766.4	735.55	6766.41	740.39	6766.36	741.74	6766.36
745.22	6766.23	746.75	6766.13	750.06	6765.6	751.75	6765.4	754.9	6765.28
756.75	6765.08	758.73	6765.65	761.76	6766.26	764.58	6766.13	766.76	6766.17
769.42	6765.98	771.76	6766.01	774.26	6765.9	776.76	6765.33	779.1	6765.4
781.77	6765.35	783.94	6765.77	786.77	6766.09	788.78	6766.15	791.77	6766.61
793.62	6766.57	796.77	6766.6	798.46	6766.51	801.78	6766.1	803.3	6765.72
805.9	6765.17	806.78	6764.98	808.54	6764.85	811.78	6764.62	813	6764.66
816.79	6764.56	817.86	6764.46	821.79	6764.27	822.71	6764.3	826.79	6764.65
827.56	6764.67	831.79	6765.04	832.41	6765.07	833.54	6765.06	836.79	6765.04
837.27	6765.06	841.8	6765.03	842.12	6765.04	846.8	6765.05	851.8	6764.94
856.8	6765.81	861.53	6766.11	861.81	6766.11	866.39	6766.01	866.81	6765.95
871.24	6765.09	871.81	6765.15	876.09	6766.24	876.81	6766.35	880.95	6766.34
881.82	6766.29	885.8	6766.34	886.82	6766.27	890.65	6765.75	891.82	6765.69
895.51	6766.21	896.82	6766.38	898.22	6766.37	901.83	6766.29	905.21	6766.49
910.07	6766.58	911.83	6766.63	914.92	6766.64	916.83	6766.58	919.77	6766.5
924.63	6766.47	926.84	6766.43	929.48	6766.44	931.84	6766.52	934.33	6766.53
936.84	6766.58	939.51	6766.66	941.84	6766.77	944.04	6766.79	946.85	6766.9

948.89	6766.9	951.85	6766.88	953.75	6766.8	956.85	6766.68	958.6	6766.65
961.85	6766.49	966.86	6766.5	968.31	6766.49	971.86	6766.52	973.16	6766.52
976.86	6766.57	978.01	6766.53	981.86	6766.66	982.87	6766.67	986.87	6766.66
991.12	6766.13	992.57	6766.06	996.87	6765.89	1001.87	6765.98	1002.28	6765.98
1006.87	6765.74	1011.88	6765.8	1011.98	6765.79	1015.48	6765.71	1016.88	6765.67
1021.69	6765.73	1021.88	6765.74	1026.54	6766.67	1027.25	6766.76	1031.89	6766.93
1036.25	6766.87	1036.89	6766.84	1041.89	6767.15	1045.96	6767.33	1046.89	6767.43
1050.81	6767.56	1051.9	6767.57	1055.66	6767.65	1056.9	6767.7	1060.52	6767.71
1065.37	6767.65	1066.9	6767.62	1070.22	6767.5	1071.91	6767.5	1075.08	6767.33
1076.91	6767.22	1078.86	6767.42	1081.91	6767.76	1084.78	6767.9	1086.91	6767.96
1089.64	6767.94	1091.92	6767.96	1094.49	6768.03	1096.92	6768.08	1099.34	6768.1
1101.92	6768.1	1104.2	6768.07	1106.92	6768.05	1109.05	6768	1111.92	6767.88
1113.9	6767.84	1116.93	6767.83	1120.14	6767.8	1121.93	6767.84	1123.61	6767.84
1128.46	6767.78	1133.32	6767.82	1136.94	6767.91	1138.17	6767.92	1141.94	6767.91
1143.02	6767.9	1147.88	6767.91	1151.94	6767.89	1156.95	6768	1157.58	6768.03
1161.95	6768.19	1162.44	6768.18	1166.95	6768.21	1171.75	6768.15	1172.14	6768.15
1176.96	6768.07	1176.99	6768.06	1181.96	6767.6	1186.7	6767.59	1186.96	6767.58
1191.55	6767.5	1196.41	6767.37	1196.96	6767.35	1201.26	6767.16	1201.97	6767.16
1206.11	6767.11	1210.97	6767.11	1211.97	6767.12	1213.04	6767.09	1216.97	6767.15
1220.67	6767.02	1225.53	6767.03	1230.38	6767.4	1231.98	6767.68	1235.23	6768.11
1236.98	6768.38	1240.09	6769.16	1241.99	6769.84	1244.94	6770.4	1246.99	6770.7
1249.79	6771.48	1251.99	6772	1254.65	6772.59	1256.99	6772.9	1259.5	6773.41
1262	6773.69	1264.35	6773.81	1267	6773.91	1269.21	6774.01	1272	6774.17
1274.06	6774.34	1277	6774.46	1278.91	6774.43	1282	6774.35	1283.77	6774.36
1287.01	6774.41	1288.62	6774.46	1292.01	6774.53	1293.47	6774.55	1297.01	6774.62
1298.33	6774.67	1302.01	6774.7	1303.18	6774.73	1307.02	6774.86	1308.03	6774.87
1312.02	6774.94	1312.89	6774.95	1317.02	6774.96	1322.02	6775.1	1327.03	6775.08
1332.3	6775.09	1337.15	6775.13	1342.03	6775.19	1346.86	6775.32	1347.04	6775.33
1351.71	6775.37	1356.56	6775.37	1357.04	6775.36	1358.83	6775.37		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	796.77	.04	861.81	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	796.77	861.81		223 223	223		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	711.73	6767.1	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5893

INPUT

Description:

Station	Elevation	Data	num=	489					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6767.21	.5	6767.21	1.65	6767.07	2	6767	2.27	6766.96
3.15	6766.8	3.67	6766.7	4.37	6766.58	4.68	6766.52	5.55	6766.37
5.69	6766.34	6.68	6766.16	8.44	6766.12	8.72	6766.11	9.09	6766.11
9.73	6766.09	10.74	6766.07	11.98	6766.04	15	6766.04	15.79	6766.05
16.18	6766.06	16.39	6766.05	17.27	6766.07	17.81	6766.07	18.15	6766.08
19.04	6766.08	20.5	6766.1	20.9	6766.1	21.69	6766.09	22.09	6766.09
22.57	6766.07	22.87	6766.07	23.88	6766.05	24.89	6766.05	25.22	6766.04
26.81	6766.04	26.91	6766.03	27.86	6766.16	27.99	6766.17	28.75	6766.27
29.17	6766.32	29.63	6766.31	29.94	6766.36	30.51	6766.38	31.4	6766.42
31.96	6766.45	33.9	6766.4	35.08	6766.38	35.81	6766.36	36.26	6766.34
37.01	6766.32	37.57	6766.23	38.62	6766.04	39.34	6765.92	40.04	6765.79
40.22	6765.79	40.99	6765.63	41.46	6765.6	42.17	6765.58	43.07	6765.63
43.35	6765.65	44.64	6765.72	45.1	6765.74	45.52	6765.77	46.11	6765.8
46.4	6765.79	46.89	6765.84	47.12	6765.83	47.28	6765.86	48.07	6765.97
49.05	6766.1	49.26	6766.12	50.15	6766.24	50.44	6766.27	51.16	6766.37
52.17	6766.5	52.58	6766.57	52.8	6766.69	53.18	6766.77	53.98	6766.92
54.19	6766.97	55.16	6767.15	55.23	6767.17	56.21	6767.36	56.34	6767.38
56.99	6767.51	57.22	6767.55	57.88	6767.58	58.71	6767.61	58.76	6767.63
59.24	6767.64	60.52	6767.74	61.07	6767.77	61.26	6767.79	62.25	6767.86
62.41	6767.85	63.43	6767.81	64.29	6767.77	64.61	6767.71	64.94	6767.74
65.79	6767.57	66.31	6767.46	66.7	6767.39	67.32	6767.26	68.16	6767.29

68.47	6767.31	70.23	6767.37	70.36	6767.38	71.12	6767.39	72.38	6767.43
75.41	6767.43	75.53	6767.42	76.42	6767.43	77.3	6767.39	78.18	6767.42
78.44	6767.42	78.79	6767.44	79.06	6767.44	79.45	6767.46	79.94	6767.47
79.97	6767.48	81.15	6767.51	81.71	6767.54	82.33	6767.55	82.59	6767.56
83.36	6767.54	83.51	6767.53	84.69	6767.5	85.24	6767.49	85.88	6767.47
86.52	6767.46	87.01	6767.44	87.53	6767.43	87.89	6767.44	88.24	6767.42
88.54	6767.43	89.42	6767.44	89.65	6767.45	90.54	6767.46	90.56	6767.47
90.59	6765.82	91.57	6765.82	95.85	6765.75	98.98	6765.69	102.68	6765.63
104.53	6765.61	106.38	6765.61	109.22	6765.58	110.08	6765.59	111.77	6765.57
120.04	6765.45	124.85	6765.39	130.32	6765.35	132.79	6765.34	141.99	6765.26
142.21	6765.26	144.92	6765.24	153.19	6765.2	161.05	6765.15	169.23	6765.11
175.15	6765.09	180.34	6765.06	182.19	6765.06	187.74	6765.02	189.3	6765.02
193.42	6765	193.99	6765	198.72	6764.97	202.51	6764.96	206.21	6764.93
211.19	6764.9	219.49	6764.86	221.02	6764.86	224.72	6764.83	231.67	6764.79
236.36	6764.77	239.48	6764.75	243.19	6764.75	244.34	6764.76	248.49	6764.76
252.65	6764.75	256.76	6764.73	264.62	6764.68	269.35	6764.64	274.03	6764.67
276.5	6764.68	285.76	6764.77	289.91	6764.8	302.37	6765.22	307.02	6765.38
309.78	6765.49	310.64	6765.51	314.76	6765.67	317.18	6765.75	318.91	6765.82
320.08	6766.02	320.63	6766.12	320.85	6766.18	321.33	6766.24	321.62	6766.31
323.17	6766.73	323.94	6766.95	324.71	6767.16	325.26	6767.29	325.48	6767.37
325.81	6767.44	326.56	6772.1	327.54	6772.21	327.59	6772.22	328.53	6772.24
329.57	6772.25	329.62	6772.26	330.63	6772.27	331.5	6772.29	331.64	6772.3
332.65	6772.31	334.68	6772.29	335.45	6772.28	336.57	6772.27	336.7	6772.26
337.42	6772.25	338.73	6772.25	339.4	6772.24	340.57	6772.24	340.75	6772.23
341.57	6772.23	341.77	6772.22	342.36	6772.23	342.57	6772.21	343.79	6772.23
344.57	6772.23	344.8	6772.24	345.33	6772.24	345.57	6772.25	346.32	6772.26
346.83	6772.26	347.3	6772.27	347.84	6772.27	348.57	6772.26	348.85	6772.25
349.28	6772.25	349.57	6772.24	350.27	6772.23	350.88	6772.23	352.24	6772.21
353.23	6772.19	353.91	6772.19	354.22	6772.18	354.93	6772.18	355.21	6772.17
355.94	6772.17	356.2	6772.16	356.57	6772.16	357.57	6772.14	358.17	6772.14
358.57	6772.15	359.57	6772.15	359.99	6772.16	361.14	6772.16	361.57	6772.17
362.57	6772.17	363.03	6772.2	363.57	6772.22	364.04	6772.25	364.57	6772.27
365.05	6772.3	365.57	6772.32	366.06	6772.35	366.57	6772.37	367.07	6772.4
367.08	6772.37	367.57	6772.39	368.57	6772.37	369.04	6772.35	369.57	6772.34
370.03	6772.32	371.02	6772.3	371.13	6772.29	372.57	6772.26	373.15	6772.28
376.19	6772.43	377.57	6772.5	377.93	6772.51	378.21	6772.49	378.57	6772.5
378.92	6772.52	379.91	6772.55	380.24	6772.57	380.9	6772.59	381.25	6772.61
381.89	6772.63	382.57	6772.66	383.28	6772.63	384.29	6772.6	386.83	6772.5
387.33	6772.57	387.57	6772.56	388.34	6772.6	388.57	6772.62	389.35	6772.66
389.57	6772.68	390.57	6772.73	390.78	6772.75	392.57	6772.84	394.73	6772.84
395.42	6772.83	397.69	6772.83	399.47	6772.85	399.67	6772.86	401.65	6772.88
402.51	6772.84	402.63	6772.84	403.52	6772.89	403.62	6772.9	404.54	6772.94
404.61	6772.95	406.56	6773.05	407.57	6773.07	408.56	6773.04	409.6	6773.02
410.54	6772.99	410.61	6773	411.62	6772.97	412.51	6773.01	413.65	6773.09
414.49	6773.16	415.67	6773.24	416.47	6773.3	417.57	6773.4	420.57	6773.4
420.74	6773.41	421.41	6773.4	421.75	6773.42	423.77	6773.48	424.37	6773.46
424.79	6773.46	425.58	6773.44	426.35	6773.43	427.33	6773.41	427.58	6773.4
428.84	6773.45	429.31	6773.46	430.58	6773.51	430.86	6773.54	431.29	6773.53
431.58	6773.57	432.27	6773.64	432.58	6773.68	433.26	6773.71	434.58	6773.79
434.91	6773.8	435.58	6773.84	435.92	6773.82	436.23	6773.88	436.94	6773.84
437.58	6773.81	439.58	6773.75	439.97	6773.73	440.58	6773.72	440.99	6773.72
441.17	6773.7	442.58	6773.73	444.02	6773.7	444.58	6773.7	445.58	6773.68
446.05	6773.69	446.11	6773.67	447.58	6773.7	450.1	6773.7	450.58	6773.69
452.58	6773.69	453.58	6773.72	454.01	6773.74	454.58	6773.75	455.58	6773.79
456.17	6773.8	456.58	6773.82	457.58	6773.84	458.2	6773.81	458.58	6773.8
459.58	6773.75	459.94	6773.74	460.22	6773.72	460.58	6773.71	460.93	6773.69
461.23	6773.71	461.58	6773.7	462.25	6773.7	462.58	6773.71	463.89	6773.79
464.88	6773.86	465.28	6773.88	465.87	6773.92	466.3	6773.87	466.58	6773.88
466.85	6773.87	467.84	6773.81	468.32	6773.79	468.83	6773.74	469.33	6773.73
469.58	6773.69	471.36	6773.46	471.79	6773.4	472.58	6773.3	473.38	6773.29
473.58	6773.28	474.4	6773.27	475.41	6773.24	475.75	6773.24	476.42	6773.22
476.73	6773.22	477.72	6773.19	478.58	6773.18	478.71	6773.17	479.7	6773.16
480.47	6773.14	480.69	6773.14	481.48	6773.08	482.66	6773.01	485.63	6772.8
486.55	6772.79	486.58	6772.78	487.6	6772.77	488.57	6772.75	490.57	6772.73
492.62	6772.75	494.52	6772.71	494.64	6772.7	495.51	6772.69	495.66	6772.68
496.49	6772.66	496.67	6772.66	497.48	6772.64	497.68	6772.63	499.71	6772.63
500.45	6772.62	500.72	6772.63	501.73	6772.63	502.74	6772.64	503.76	6772.67
504.4	6772.68	505.78	6772.71	506.58	6772.74	506.79	6772.74	507.58	6772.77
508.35	6772.77	509.34	6772.79	509.83	6772.78	510.33	6772.8	511.58	6772.77
512.3	6772.76	513.29	6772.76	513.58	6772.77	514.28	6772.78	514.89	6772.78
516.92	6772.81	517.58	6772.83	518.23	6772.84	518.58	6772.84	519.58	6772.86

519.96	6772.86	520.21	6772.87	520.97	6772.87	521.19	6772.86	522.99	6772.86
523.17	6772.85	523.58	6772.85	524.01	6772.84	524.58	6772.84	525.58	6772.82
526.13	6772.82	527.04	6772.8	527.58	6772.8	528.58	6772.78	529.1	6772.78
529.58	6772.77	530.08	6772.77	530.58	6772.76	531.09	6772.76	531.58	6772.75
532.11	6772.75	532.58	6772.74	533.58	6772.76	534.13	6772.78	535.03	6772.8
535.14	6772.83	535.58	6772.84	536.16	6772.88	536.28	6772.88		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	90.54	.04	325.81	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	90.54	325.81		263.61 263.61	263.61		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5892.0

INPUT

Description:

Station Elevation Data				num=	487				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-199.21	6765.92	-199.13	6765.88	-197.36	6766.01	-196.34	6766	-193.97	6765.95
-192.22	6765.92	-190.07	6765.92	-185.19	6765.82	-182.27	6765.88	-181.29	6765.84
-180.32	6765.78	-178.88	6765.71	-177.11	6765.66	-174.77	6765.66	-173.49	6765.64
-171.54	6765.59	-168.61	6765.53	-167.64	6765.52	-166.11	6765.52	-165.11	6765.53
-164.71	6765.57	-164.5	6765.54	-163.11	6765.66	-162.11	6765.76	-159.37	6765.76
-159.11	6765.77	-156.91	6765.79	-154.23	6765.71	-152.11	6765.55	-149.1	6765.51
-144.24	6765.41	-143.96	6765.41	-140.33	6765.3	-137.8	6765.21	-136.43	6765.17
-134.48	6765.14	-133.1	6765.13	-131.56	6765.15	-129.61	6765.21	-128.63	6765.22
-128.56	6765.24	-126.51	6765.23	-124.1	6765.16	-122.1	6765.12	-121.37	6765.13
-118.88	6765.13	-118.29	6765.14	-116.24	6765.13	-116.09	6765.14	-113.16	6765.17
-112.05	6765.17	-110.08	6765.14	-107.18	6765.11	-102.89	6765	-101.86	6764.99
-99.81	6765.01	-98.09	6765.04	-96.73	6765.04	-92.62	6764.99	-91.09	6764.99
-90.6	6764.98	-87.49	6764.98	-87.08	6764.97	-85.08	6765.05	-82.8	6765.12
-82.08	6765.15	-80.08	6765.1	-76.95	6765.01	-75	6764.91	-74.02	6764.87
-72.09	6764.77	-70.08	6764.77	-70.03	6764.76	-67.08	6764.76	-65.25	6764.69
-62.08	6764.88	-59.4	6764.69	-57.07	6764.8	-56.07	6764.82	-52.07	6764.85
-51.55	6764.86	-48.47	6765.03	-47.07	6765.12	-45.39	6765.15	-44.36	6765.18
-42.07	6765.23	-40.87	6765.24	-37.17	6765.31	-35.02	6765.31	-34.09	6765.3
-32.04	6765.3	-29.16	6765.32	-27.06	6765.32	-25.88	6765.25	-24.06	6765.18
-23.82	6765.18	-22.06	6765.11	-20.74	6765.08	-19.41	6765.07	-17.06	6765.04
-16.64	6765.06	-15.06	6765.09	-13.06	6765.09	-11.5	6765.1	-10.48	6765.09
-7.06	6765.01	-5.06	6765.01	-4.79	6765	-1.86	6765	.82	6765.04
2.87	6765.1	5.72	6765.13	7.95	6765.13	9.84	6765.09	10.95	6765.08
12.95	6765.08	15.19	6765.04	16.22	6765.04	17.95	6765.02	19.59	6765.06
20.95	6765.07	22.52	6765.06	27.95	6764.95	31.3	6764.95	32.27	6764.97
33.25	6764.96	34.22	6764.9	36.17	6764.8	37.78	6764.74	38.81	6764.72
40.07	6764.68	40.87	6764.67	42.92	6764.57	43.95	6764.61	45.92	6764.71
47.96	6764.79	51.13	6764.79	52.96	6764.8	54.7	6764.83	55.96	6764.84
57.63	6764.87	58.96	6764.91	59.58	6764.94	62.5	6765.04	64.45	6765.08
64.97	6765.08	66.54	6765.11	67.97	6765.11	69.33	6765.08	70.3	6765.07
72.97	6765.02	73.97	6765.02	76.8	6764.99	78.1	6764.99	79.88	6765.01
81.94	6765.02	82.98	6765.01	84.93	6764.97	86.88	6764.94	88.1	6764.93
89.13	6764.96	90.15	6764.96	92.73	6764.99	94.26	6765	95.98	6765
96.31	6765.01	97.98	6765.01	100.42	6764.81	102.47	6764.63	102.48	6764.66
102.98	6764.62	105.98	6764.33	107.98	6764.13	111.98	6764.13	112.74	6764.12
114.8	6763.99	117.98	6763.8	119.93	6763.96	122.05	6764.12	122.96	6764.2
125.06	6764.2	125.89	6764.21	128.15	6764.21	128.99	6764.19	130.2	6764.18
132.99	6764.13	133.99	6763.99	135.33	6763.78	136.36	6763.63	137.99	6763.37
140.47	6763.27	140.52	6763.26	142.47	6763.18	142.52	6763.01	142.99	6762.98
143.99	6762.61	144.99	6762.26	145.6	6761.98	146.37	6761.66	146.63	6762.58
146.99	6762.44	147.34	6762.95	147.66	6762.63	147.99	6763.12	152.22	6763.25
153.19	6763.29	153.82	6763.41	155.14	6763.54	158.07	6763.84	159.04	6763.93
160.82	6764.15	160.99	6764.18	163.06	6764.44	164.08	6764.6	168	6765.37
169.22	6765.14	169.77	6765.14	170	6765.09	171.27	6765.02	173	6764.91
174.35	6765.02	175	6765.05	176.6	6765.1	178	6765.16	178.46	6765.15
181.01	6765.14	183.01	6765.12	184.01	6764.98	185.65	6764.77	186.35	6764.67
188.3	6764.45	190.25	6764.29	191.81	6764.15	193.01	6764.03	194.15	6764.1

197.97	6764.31	200	6764.33	203.1	6764.3	204.88	6764.34	208.01	6764.43
210.29	6764.45	213.02	6764.37	215.43	6764.26	215.6	6764.29	216.02	6764.27
218.02	6764.3	220.02	6764.07	220.48	6764.05	220.56	6764.01	223.02	6763.92
226.02	6763.65	228.02	6763.42	229.8	6763.39	230.23	6763.36	230.83	6763.37
232.18	6763.25	232.25	6763.55	236.37	6762.92	237.26	6762.82	237.52	6762.76
241.46	6761.92	242.26	6761.8	246.53	6761.5	247.26	6761.39	249.9	6761.3
251.6	6761.25	252.26	6761.21	256.67	6761.44	257.26	6761.42	261.74	6761.78
262.26	6761.83	262.77	6761.8	267.27	6761.48	267.7	6761.47	272.27	6761.57
276.96	6761.64	277.27	6761.65	282.03	6762.46	282.27	6762.48	287.1	6763.54
287.27	6763.6	287.36	6762.28	288.04	6762.32	291.04	6762.97	291.3	6763.08
291.78	6763.14	293.04	6763.65	296.04	6764.27	296.23	6764.29	296.85	6764.44
298.04	6764.56	300.91	6764.24	301.17	6764.25	301.92	6764.13	303.14	6764.3
306.99	6764.6	308.01	6764.72	312.06	6765.82	313	6766.11	314.09	6766.36
314.98	6766.55	317.04	6767.01	318.15	6767.29	321.04	6767.89	322.2	6768.14
323.04	6768.34	326.26	6769.24	327.27	6769.53	327.8	6769.53	328.29	6769.62
329.77	6769.8	332.34	6770.1	333.04	6770.16	334.7	6770.15	337.41	6770.15
338.04	6770.13	340.62	6770.2	342.49	6770.24	342.6	6770.19	343.04	6770.2
345.53	6770.07	347.04	6769.98	347.53	6770	347.56	6769.96	348.04	6769.97
352.63	6769.41	358.04	6769.09	358.38	6769.09	358.71	6768.99	359.04	6768.98
359.73	6768.88	363.04	6768.36	363.31	6768.31	363.78	6768.29	364.04	6768.24
365.04	6768.15	366.82	6767.97	368.04	6767.86	370.88	6767.72	371.89	6767.66
372.19	6767.66	373.04	6767.61	375.15	6767.15	377.12	6766.73	377.98	6766.53
382.04	6766.15	383.04	6766.05	385.01	6765.89	386.09	6765.79	387.97	6765.64
389.95	6765.4	390.93	6765.29	393.05	6765.03	393.89	6765.12	395.22	6765.24
398.05	6765.52	399.81	6765.56	403.05	6765.66	405.36	6765.67	407.05	6765.69
408.05	6765.69	409.42	6765.99	412.05	6766.55	412.46	6766.55	412.63	6766.68
413.05	6766.68	413.47	6766.76	413.62	6766.71	414.05	6766.79	418.05	6767.03
419.05	6767.02	423.05	6766.94	423.61	6766.97	426.05	6767.22	426.45	6767.27
428.05	6767.43	428.42	6767.35	428.69	6767.39	429.4	6767.23	430.39	6767.03
433.05	6766.47	433.35	6766.44	433.76	6766.52	438.05	6766.22	438.28	6766.26
438.83	6766.24	443.22	6767.06	443.9	6767.22	445.93	6767.58	447.95	6767.95
448.97	6768.15	450.12	6768.36	453.02	6768.91	454.07	6769.02	456.04	6769.2
458.1	6769.4	459.11	6769.57	461.05	6769.8	461.14	6769.8	462.94	6770.01
464.18	6770.25	466.21	6770.52	468.05	6770.78	469.25	6770.78	472.05	6770.95
473.05	6771.02	474.32	6771.07	475.34	6771.09	477.74	6771.12	479.39	6771.15
479.71	6771.11	480.06	6771.12	481.42	6771.04	483.06	6770.96	485.06	6770.96
487.5	6770.99	489.53	6770.99	489.58	6770.95	490.06	6770.95	491.06	6770.88
493.06	6770.72	494.6	6770.66	497.06	6770.51	498.06	6770.44	499.67	6770.42
502.06	6770.49	503.06	6770.51	504.74	6770.51	508.06	6770.62	509.06	6770.61
509.31	6770.64	509.82	6770.6	513.06	6770.89	514.89	6770.97	515.9	6770.95
517.93	6770.89	519.96	6770.91	523.12	6770.81	524.1	6770.81	525.09	6770.79
526.99	6770.86	530.02	6770.95	530.1	6770.96	533.14	6771.09	535.17	6771.32
535.94	6771.35	536.93	6771.42	538.06	6771.48	540.24	6771.14	540.87	6771.16
541.06	6771.13	543.06	6771.09	543.83	6771.17	546.06	6771.37	549.06	6771.58
550.38	6771.68	550.73	6771.69	553.06	6771.82	555.46	6771.87	558.06	6771.98
560.53	6771.89	560.6	6771.93	561.06	6771.91	563.06	6771.98	565.6	6772.03
569.06	6772.21	569.47	6772.22	573.06	6772.4	575.74	6772.65	578.35	6772.83
579.06	6772.86	580.81	6772.96	583.07	6773.07	584.27	6773.06	586.07	6773.06
588.93	6773.11	591.07	6773.17	593.07	6773.19	596.1	6773.45	598.06	6773.54
601.1	6773.58	602.12	6773.64	603.99	6773.72	606.17	6773.8	606.95	6773.81
611.88	6773.96	612.66	6773.97						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-199.21	.05	232.25	.04	287.27	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	232.25	287.27		142.82	142.83		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5550.12

INPUT

Description:

Station	Elevation	Data	num=	487						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
-41.84	6764.12	-38.78	6763.95	-36.78	6763.92	-34	6763.92	-33.78	6763.93	
-32.04	6763.83	-30.5	6763.76	-28.46	6763.68	-27.44	6763.67	-24.78	6763.59	

-24.16	6763.56	-22.2	6763.53	-20.78	6763.53	-19.24	6763.55	-16.78	6763.6
-15.78	6763.61	-13.78	6763.57	-11.18	6763.43	-6.09	6763.28	-3.77	6763.28
-	.77 6763.4	1.42	6763.44	4.08	6763.37	6.11	6763.34	9.29	6763.35
11.26	6763.38	14.24	6763.33	16.18	6763.25	18.15	6763.19	19.13	6763.17
21.23	6763.06	25.43	6763.12	26.23	6763.14	28.48	6763.11	31.23	6763.11
31.53	6763.09	34.58	6762.97	35.86	6762.98	37.63	6762.98	37.83	6762.99
40.23	6762.99	41.23	6762.98	42.75	6762.93	46.23	6763.02	48.23	6763.12
51.23	6763.29	51.86	6763.28	54.91	6763.19	60.46	6763.19	61.23	6763.21
63.41	6763.12	65.08	6763.04	66.37	6763	70.17	6763.1	71.29	6763.1
73.25	6763.15	75.22	6763.21	76.27	6763.18	80.33	6762.86	82.37	6762.95
85.42	6763.1	86.43	6763.09	89.24	6763.03	90.24	6763.02	91.24	6762.99
93.55	6763.15	95.59	6763.28	95.89	6763.37	96.24	6763.4	100.24	6763.13
101.24	6763.09	103.76	6762.83	105.24	6762.69	105.73	6762.59	105.75	6762.63
106.24	6762.54	108.24	6762.39	109.66	6762.27	110.65	6762.22	111.24	6762.17
112.87	6762.19	113.6	6762.21	116.24	6762.25	121.24	6762.8	122.24	6762.77
125.07	6762.66	126.24	6762.63	128.36	6762.75	130.16	6762.86	130.33	6762.85
131.17	6762.91	133.28	6762.91	135.24	6762.93	136.26	6762.93	141.34	6763.03
144.1	6763.11	146.07	6763.16	146.42	6763.14	147.06	6763.21	147.25	6763.19
151.25	6763.41	151.51	6763.37	154.56	6763.16	156.25	6763.05	156.59	6763.04
156.9	6762.98	157.25	6762.98	158.63	6762.83	161.25	6762.56	161.68	6762.57
161.82	6762.53	162.25	6762.54	164.77	6762.42	166.74	6762.34	166.76	6762.36
170.83	6762.26	171.66	6762.23	171.84	6762.26	173.25	6762.21	174.61	6762.15
176.25	6762.09	177.56	6762.17	181.25	6762.43	182.01	6762.39	183.47	6762.43
184.25	6762.44	186.08	6762.49	186.42	6762.48	187.1	6762.4	191.16	6762.28
192.18	6762.2	196.25	6762.16	197.26	6762.05	199.3	6761.88	201.33	6761.72
202.35	6761.78	203.15	6761.72	204.38	6761.65	206.25	6761.52	210.48	6761.81
211.25	6761.87	212.52	6761.89	214.55	6761.85	215.57	6761.84	218.26	6761.76
221.26	6761.7	222.26	6761.56	222.68	6761.55	222.83	6761.49	223.26	6761.48
223.7	6761.03	223.81	6761.13	224.26	6760.68	224.72	6761.07	224.79	6760.78
225.26	6761.18	225.73	6761.33	225.78	6761.48	226.26	6761.63	227.26	6761.66
227.75	6761.72	227.77	6761.68	229.26	6761.86	231.26	6762.09	232.26	6762.05
232.67	6762.07	232.85	6762.03	233.65	6762.07	236.26	6762.17	237.93	6762.13
239.55	6762.12	241.52	6762.13	243.02	6762.2	246.26	6762.32	247.26	6762.49
247.43	6762.49	248.1	6762.63	250.38	6762.67	253.33	6762.73	256.24	6762.56
258.25	6762.53	261.32	6762.54	263.17	6762.59	264.16	6762.67	266.4	6762.83
268.44	6762.88	269.26	6762.93	271.26	6763.03	273.52	6762.99	274.54	6763.01
276.26	6763.06	278.61	6763.36	279.9	6763.48	281.26	6763.59	282.85	6763.56
284.82	6763.51	286.26	6763.46	288.77	6763.31	291.27	6763.21	293.86	6763.25
297.27	6763.35	298.94	6763.41	301.27	6763.41	303.27	6763.36	304.27	6763.35
306.47	6763.42	308.27	6763.44	309.42	6763.47	311.14	6763.54	311.39	6763.54
313.18	6763.47	315.21	6763.47	315.27	6763.46	318.28	6763.47	320.25	6763.55
321.23	6763.58	324.18	6763.7	326.15	6763.75	327.41	6763.73	329.45	6763.67
330.09	6763.69	331.07	6763.69	332.05	6763.71	334.27	6763.73	336.27	6763.78
338.6	6763.74	339.61	6763.73	340.91	6763.64	343.27	6763.54	344.7	6763.49
344.85	6763.53	345.27	6763.51	346.27	6763.55	347.27	6763.5	351.27	6763.32
354.69	6763.29	356.27	6763.29	359.95	6763.51	361.27	6763.62	363	6763.65
364.53	6763.66	365.03	6763.68	366.28	6763.63	367.28	6763.62	369.45	6763.58
371.13	6763.56	372.4	6763.62	374.18	6763.73	375.2	6763.78	379.29	6763.82
381.3	6763.83	383.22	6763.75	385.28	6763.65	386.38	6763.65	390.45	6763.53
391.28	6763.48	391.47	6763.49	391.67	6763.69	393.2	6763.34	395.7	6762.83
396.67	6762.64	400.06	6762.59	401.67	6762.56	403.3	6762.46	406.67	6762.34
408.34	6762.16	411.67	6761.64	413.38	6761.55	416.67	6761.47	418.42	6761.46
421.67	6761.31	423.46	6761.28	426.67	6761.21	428.5	6761.29	431.67	6761.37
433.54	6761.53	436.67	6761.64	441.67	6761.8	443.62	6762.11	446.67	6762.37
448.66	6762.86	451.67	6763.58	451.98	6762.29	456.28	6763.31	457.28	6763.43
460.28	6763.82	460.52	6763.88	461.05	6763.92	461.28	6763.97	463.5	6764.14
464.28	6764.21	465.48	6764.29	466.28	6764.36	471.28	6764.63	476.17	6764.71
480.2	6764.65	481.36	6764.62	484.23	6764.56	486.25	6764.51	491.28	6764.06
492.27	6764.07	496.32	6764.07	501.2	6763.92	502.37	6763.97	505.39	6764.06
507.41	6764.14	509.43	6764.24	512.12	6764.35	516.09	6764.47	516.28	6764.48
523.54	6764.48	526.28	6764.46	528	6764.35	528.28	6764.32	530.59	6764.16
531.28	6764.1	531.97	6764.07	533.62	6763.97	536.64	6763.82	536.93	6763.86
537.28	6763.85	541.28	6764.03	542.69	6764.14	544.7	6764.25	546.28	6764.35
546.72	6764.4	546.85	6764.36	547.28	6764.41	551.28	6764.49	551.76	6764.46
553.28	6764.44	555.28	6764.4	556.28	6764.39	556.77	6764.36	556.8	6764.31
558.28	6764.22	560.28	6764.11	561.73	6764.05	562.28	6764.07	564.28	6764.06
566.28	6764.06	568.68	6764.16	571.29	6764.29	571.66	6764.28	571.91	6764.32
572.92	6764.3	576.29	6764.21	576.95	6764.15	581.29	6763.71	583.29	6763.93
583.57	6763.97	585.55	6764.19	586.02	6764.16	586.29	6764.19	587.03	6764.15
589.29	6763.97	591.29	6763.82	592.06	6763.91	595.07	6764.04	597.08	6764.15
601.47	6764.37	602.11	6764.36	604.45	6764.49	606.29	6764.58	606.44	6764.61

607.13	6764.63	609.14	6764.93	611.42	6765.26	612.41	6765.46	615.4	6765.97
616.18	6766.11	617.18	6766.51	619.38	6767.8	621.2	6768.88	621.37	6768.97
622.21	6769.51	625.22	6771.13	626.23	6771.66	627.23	6772.16	628.24	6772.52
631.25	6773.57	632.32	6773.69	633.31	6773.82	635.27	6774.05	636.27	6774.18
637.29	6774.25	640.28	6774.43	642.3	6774.56	643.26	6774.54	646.32	6774.51
647.29	6774.47	651.35	6774.47	652.35	6774.43	656.2	6774.51	657.2	6774.55
658.38	6774.52	661.4	6774.41	662.4	6774.4	663.17	6774.42	665.29	6774.45
665.42	6774.46	668.29	6774.49	669.44	6774.52	671.13	6774.55	675.11	6774.57
676.47	6774.61	679.29	6774.64	681.29	6774.65	682.5	6774.7	685.29	6774.73
686.29	6774.75	687.53	6774.66	689.54	6774.47	691.29	6774.32	692.55	6774.36
694.56	6774.47	696.01	6774.56	697.57	6774.6	701.29	6774.92	702.6	6775.09
702.97	6775.08	703.29	6775.12	706.29	6775.24	707.62	6775.31	707.95	6775.27
708.29	6775.29	711.29	6775.19	712.65	6775.04	712.92	6775.08	713.29	6775.04
716.91	6775.04	718.9	6775.07	721.29	6775.12	721.69	6775.11	724.29	6775.11
726.29	6775.13	727.72	6775.09	730.74	6775.21	731.74	6775.24	732.75	6775.25
734.82	6775.15	736.29	6775.07	737.77	6775.13	741.29	6775.2	743.8	6775.18
745.77	6775.15	747.82	6775.16	748.83	6775.19	751.29	6775.24	752.73	6775.25
755.72	6775.25	757.87	6775.31	761.29	6775.38	763.9	6775.64	765.29	6775.76
766.29	6775.83	768.29	6775.71	771.29	6775.56	772.94	6775.54	774.29	6775.55
776.62	6775.55	777.97	6775.56	780.98	6775.48	781.29	6775.48	783.58	6775.41
785	6775.39	786.01	6775.36	788.56	6775.37	790.55	6775.34	797.29	6775.34
798.51	6775.36	801.29	6775.46	803.09	6775.48	806.47	6775.48	808.12	6775.51
810.45	6775.57	812.14	6775.59	814.15	6775.6	816.29	6775.6	820.17	6775.68
821.4	6775.7	823.19	6775.75	826.37	6775.73	828.21	6775.77	830.29	6775.78
830.35	6775.79	832.68	6775.8						

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
-41.84	.05	391.67	.04	451.67	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	391.67	451.67		190.33	190.32	190.33		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5209

INPUT

Description:

Station Elevation Data		num=		488					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-101.21	6762.11	-100.89	6761.73	-99.03	6761.34	-98.82	6761.34	-98.26	6761.19
-97.79	6761.2	-96.32	6761.28	-94.03	6761.42	-93.65	6761.47	-93.41	6761.46
-93.03	6761.51	-88.03	6762.03	-87.03	6762.27	-83.73	6763.03	-83.31	6763.01
-83.02	6763.07	-80.82	6762.76	-78.13	6762.39	-76.06	6762.36	-75.98	6762.35
-74.04	6762.33	-72.96	6762.46	-69.2	6762.68	-67.26	6762.68	-66.29	6762.7
-65.01	6762.71	-64.68	6762.69	-64.35	6762.72	-63.01	6762.62	-60.55	6762.57
-60.01	6762.55	-59.51	6762.57	-59.51	6762.54	-58.01	6762.59	-56.41	6762.62
-53.3	6762.69	-49.82	6762.71	-48.13	6762.69	-46.06	6762.65	-43.04	6762.61
-40.89	6762.63	-38.82	6762.66	-37.23	6762.7	-35.29	6762.77	-33	6762.82
-31	6762.77	-29.51	6762.75	-28.48	6762.75	-26.57	6762.71	-25.61	6762.68
-25.37	6762.7	-24.64	6762.69	-22.99	6762.72	-19.79	6762.73	-16.99	6762.7
-15.92	6762.7	-13.99	6762.57	-12.96	6762.51	-11.08	6762.21	-9.98	6762.2
-7.98	6762.2	-7.2	6762.08	-4.68	6761.72	-2.61	6761.4	-2.36	6761.43
-.98	6761.24	-.54	6761.21	-.42	6761.36	.02	6761.33	.49	6761.39
.55	6761.35	1.02	6761.42	1.52	6761.44	1.53	6761.47	2.02	6761.5
4.02	6761.78	5.02	6761.93	7.02	6762.21	8.3	6762.25	8.77	6762.33
10.24	6762.5	12.03	6762.74	12.17	6762.75	18.08	6762.87	21.03	6762.69
22.83	6762.61	24.77	6762.67	25.03	6762.67	27.39	6762.74	27.67	6762.73
30.49	6762.79	31.04	6762.81	31.27	6762.78	34.1	6762.43	36.27	6762.27
39.1	6761.84	41.27	6761.39	44.09	6761.05	46.27	6760.97	49.09	6760.71
51.27	6760.33	54.08	6759.93	56.27	6759.74	59.08	6759.86	61.27	6759.71
63.47	6759.74	66.27	6759.87	69.07	6759.97	71.27	6760.08	74.07	6760.15
76.27	6760.24	79.06	6760.71	81.27	6760.95	84.06	6761.43	86.27	6762.13
89.05	6762.43	91.27	6762.61	94.05	6762.35	96.27	6762.11	99.04	6762.27
101.27	6762.24	104.04	6762.32	106.27	6762.47	109.03	6762.44	111.27	6762.49
114.03	6762.44	116.27	6762.31	119.03	6762.36	121.27	6762.53	124.02	6762.63
126.27	6762.7	129.02	6762.74	131.27	6762.9	134.01	6763	136.27	6762.87
139.01	6762.68	141.27	6762.58	144	6762.75	146.27	6762.79	149	6762.78

151.27	6762.79	153.55	6762.67	156.27	6762.44	158.99	6762.66	161.27	6762.86
163.99	6762.88	166.27	6762.89	168.98	6762.88	171.27	6762.81	173.98	6762.76
176.27	6762.78	178.97	6762.79	181.27	6762.77	183.97	6762.84	186.27	6762.86
188.96	6763.04	191.27	6763.27	193.96	6763.18	196.27	6763.22	198.95	6763.12
201.27	6763.11	203.95	6763.26	206.27	6763.2	208.94	6763.21	211.27	6763.08
213.94	6763.21	216.27	6763.29	218.94	6763.3	221.27	6763.33	223.93	6763.32
226.27	6763.36	228.93	6763.08	231.27	6762.89	233.92	6762.9	236.27	6762.77
238.92	6763.12	241.27	6763.38	243.63	6763.29	246.27	6763.61	248.63	6763.84
251.27	6763.39	253.9	6762.91	256.27	6761.94	258.9	6761.53	261.27	6761.08
263.9	6760.33	266.27	6759.98	268.89	6759.87	271.27	6759.95	273.89	6759.99
276.27	6760.04	278.88	6760.01	281.27	6759.93	283.88	6760.29	286.27	6760.5
288.87	6760.6	291.27	6760.68	293.87	6760.58	296.27	6760.59	298.86	6760.5
301.27	6760.47	303.86	6760.59	306.27	6760.59	308.86	6760.83	311.27	6761.08
313.85	6761.32	316.27	6761.52	318.85	6761.39	326.27	6760.9	328.84	6760.76
331.27	6760.67	333.71	6760.75	336.27	6760.81	338.71	6760.89	341.27	6760.74
343.82	6760.88	346.27	6760.97	348.82	6761.16	351.27	6761.11	353.82	6761.15
356.27	6761.23	358.81	6761.3	361.27	6761.21	363.81	6760.96	366.27	6761.02
368.8	6761.36	371.27	6761.79	373.8	6762.62	376.27	6763.12	378.79	6763.39
381.27	6763.46	383.79	6763.58	386.27	6763.89	388.78	6763.94	391.27	6764.17
391.84	6763.67	392.85	6763.77	393.04	6763.77	395.23	6763.98	397.04	6764.14
398.85	6764.07	406.86	6763.83	407.86	6763.72	410.22	6763.4	412.86	6763.07
413.04	6763.07	415.87	6762.76	416.87	6762.64	417.21	6762.62	419.21	6762.61
422.04	6762.58	422.21	6762.61	422.87	6762.62	424.2	6762.7	425.87	6762.77
427.04	6762.83	431.04	6763.59	431.2	6763.6	431.88	6763.76	433.2	6763.78
434.88	6763.82	437.04	6763.85	438.19	6763.65	442.04	6762.94	444.89	6762.93
447.04	6762.91	447.89	6763.01	448.18	6763.02	451.9	6763.43	452.18	6763.45
454.18	6763.45	454.9	6763.44	459.17	6763.44	459.91	6763.45	462.04	6763.45
463.91	6763.59	466.17	6763.77	467.04	6763.83	469.16	6763.87	471.04	6763.92
471.92	6763.93	474.92	6763.89	476.16	6763.86	480.92	6763.81	482.15	6763.81
482.93	6763.73	483.04	6763.74	487.04	6763.42	488.93	6763.45	491.93	6763.48
497.04	6763.48	498.04	6763.46	502.14	6763.42	502.94	6763.4	506.13	6763.34
507.13	6763.31	509.95	6763.25	511.95	6763.2	514.04	6763.2	514.12	6763.21
517.04	6763.21	520.96	6763.36	521.96	6763.39	524.12	6763.53	526.97	6763.73
528.97	6763.67	529.97	6763.65	531.11	6763.61	532.11	6763.59	533.97	6763.45
537.1	6763.23	538.98	6763.27	539.98	6763.28	541.1	6763.31	542.1	6763.32
543.1	6763.3	545.1	6763.24	547.98	6763.18	548.04	6763.19	549.99	6763.17
550.04	6763.16	552.09	6763.14	555.99	6763.3	556.99	6763.35	558.09	6763.37
561.08	6763.4	562.08	6763.42	563.08	6763.37	566	6763.25	567	6763.2
572.07	6763.15	574.07	6763.3	575.01	6763.38	577.01	6763.53	580.01	6763.71
581.01	6763.76	582.04	6763.83	585.06	6763.84	587.06	6763.86	589.02	6763.82
590.06	6763.81	592.02	6763.77	594.03	6763.76	596.05	6763.76	597.05	6763.75
598.03	6763.76	601.05	6763.77	603.03	6763.79	606.04	6763.8	607.04	6763.81
609.04	6763.88	612.04	6763.97	612.04	6763.98	614.04	6763.88	615.04	6763.84
617.03	6763.74	618.05	6763.7	620.03	6763.6	622.05	6763.51	624.05	6763.38
627.01	6763.2	628	6763.26	631.98	6763.54	632.1	6763.56	633.11	6763.94
636.13	6765.05	637.04	6765.39	638.14	6765.83	639.15	6766.22	640.92	6766.92
641.16	6767.03	641.91	6767.31	643.17	6767.93	643.9	6768.27	646.88	6769.71
647.2	6769.83	650.86	6770.78	652.23	6771.13	655.04	6771.64	656.26	6771.87
656.82	6771.96	659.04	6772.44	661.79	6773.02	664.77	6773.5	665.76	6773.65
667.04	6773.87	669.34	6774.21	670.73	6774.43	671.35	6774.49	671.73	6774.58
672.04	6774.6	675.7	6774.51	676.39	6774.54	676.69	6774.49	678.68	6774.66
679.04	6774.7	681.04	6774.87	681.42	6774.87	681.66	6774.92	683.04	6774.96
685.04	6775.04	686.04	6775.07	687.04	6775.12	690.47	6775.12	691.6	6775.11
692.49	6775.13	695.04	6775.23	696.04	6775.26	696.51	6775.23	696.57	6775.28
697.04	6775.25	697.52	6775.28	697.56	6775.25	698.04	6775.27	701.54	6775.27
702.04	6775.26	703.04	6775.29	705.57	6775.39	707.04	6775.44	709.04	6775.34
710.6	6775.25	711.48	6775.21	711.61	6775.24	712.61	6775.19	714.46	6775.14
716.44	6775.07	721.41	6774.99	722.04	6774.94	723.68	6774.93	725.39	6774.93
727.04	6774.92	729.72	6774.95	731.35	6774.96	732.74	6775.02	734.75	6775.08
737.04	6775.16	740.29	6775.16	741.29	6775.15	741.8	6775.13	744.27	6775.17
746.04	6775.21	747.04	6775.21	748.24	6775.25	749.24	6775.27	752.22	6775.36
754.21	6775.37	755.89	6775.39	757.19	6775.39	758.91	6775.37	762.16	6775.35
766.13	6775.39	767.13	6775.38	767.96	6775.39	770.98	6775.39	771.99	6775.42
773.09	6775.43	776.07	6775.49	781.04	6775.39	787.09	6775.45	789.1	6775.59
791.97	6775.82	796.94	6775.93	798.16	6775.81	800.17	6775.57	802.04	6775.36
803.19	6775.46	804.19	6775.56	806.88	6775.8	807.04	6775.82	809.23	6775.83
812.04	6775.86	814.83	6775.71	815.04	6775.69	817.04	6775.59	818.28	6775.58
822.04	6775.58	824.76	6775.64	827.34	6775.68	828.74	6775.68	832.04	6775.7
834.04	6775.74	836.04	6775.77	837.04	6775.77	841.04	6775.83	842.04	6775.86
845.04	6775.88	846.46	6775.9	847.39	6775.9				

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 -101.21 .05 31.27 .04 391.27 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 31.27 391.27 949.69 949.69 949.69 .1 .3
 Ineffective Flow num= 1
 Sta L Sta R Elev Permanent
 391.27 847.39 6764.17 F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4667

INPUT

Description: Bottom Elevation Adjusted to Match Survey

Station Elevation Data		num= 486									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-562.16	6761.55	-561.27	6761.65	-560.48	6761.71	-560.34	6761.69	-559.11	6761.3		
-555.87	6760.25	-555.8	6760.34	-554.86	6760.04	-552.32	6759.25	-551.55	6759.02		
-550.32	6758.63	-550.18	6758.62	-545.5	6757.97	-544.3	6757.87	-543.63	6757.83		
-540.82	6757.62	-540.29	6757.61	-539.68	6757.68	-538.01	6757.81	-535.37	6758.03		
-534.13	6758.1	-530.52	6758.24	-530.27	6758.24	-528.65	6758.36	-527.71	6758.42		
-526.73	6758.5	-525.25	6758.6	-523.5	6758.58	-520.26	6758.46	-519.29	6758.55		
-518.1	6758.68	-517.42	6758.68	-517.02	6758.71	-515.55	6758.75	-513.78	6758.75		
-513.67	6758.74	-511.8	6758.74	-511.62	6758.73	-510.22	6758.73	-508.99	6758.78		
-508.06	6758.84	-507.31	6758.86	-505.25	6759.08	-504.07	6759.09	-502.99	6759.11		
-502.2	6759.11	-501.19	6759.15	-498.7	6759.27	-497.18	6759.29	-496.52	6759.31		
-495.18	6759.33	-494.36	6759.39	-493.28	6759.45	-491.21	6759.59	-490.16	6759.64		
-485.72	6759.31	-485.59	6759.34	-485.15	6759.3	-481.14	6759.3	-480.91	6759.28		
-480.33	6759.3	-479.98	6759.29	-477.09	6759.4	-475.3	6759.48	-473.85	6759.56		
-470.11	6759.8	-468.46	6759.87	-465.22	6760.04	-464.14	6760.05	-462.19	6760.03		
-460.9	6760.03	-460.09	6760.02	-458.75	6760.05	-458.08	6760.08	-455.08	6760.24		
-451.89	6760.26	-451.19	6760.23	-450.02	6760.2	-448.06	6760.3	-445.8	6760.48		
-445.05	6760.53	-443.05	6760.7	-442.56	6760.75	-442.53	6760.72	-442.04	6760.77		
-440.04	6760.84	-439.04	6760.86	-437.85	6760.87	-437.16	6760.89	-435.31	6760.87		
-433.93	6760.87	-433.17	6760.88	-431.77	6760.88	-430.01	6760.93	-428.01	6760.9		
-426.62	6760.89	-425.68	6760.87	-425	6760.87	-424.21	6760.89	-420.98	6761.01		
-419.13	6761.06	-418.82	6761.08	-417.26	6761.14	-415.98	6761.18	-414.98	6761.23		
-413.97	6761.25	-410.97	6761.29	-410.71	6761.28	-408.03	6761.35	-404.79	6761.41		
-402.28	6761.25	-401.35	6761.2	-399.94	6761.11	-396.67	6761.11	-396.15	6761.1		
-394.8	6761.1	-393.86	6761.12	-390.12	6761.16	-388.6	6761.2	-386.91	6761.27		
-384.9	6761.37	-383.2	6761.32	-381.69	6761.29	-379.82	6761.24	-377.95	6761.17		
-375.14	6761.14	-374.2	6761.15	-372.33	6761.15	-371.87	6761.16	-369.86	6761.16		
-368.1	6761.13	-367.02	6761.12	-365.78	6761.12	-364.86	6761.13	-362.03	6761.11		
-360.54	6761.11	-359.84	6761.1	-357.83	6761.15	-357.35	6761.17	-356.42	6761.18		
-356.23	6761.2	-354.82	6761.2	-354.07	6761.25	-352.99	6761.3	-350.61	6761.43		
-349.75	6761.45	-348.67	6761.41	-347.81	6761.39	-346.8	6761.35	-343.8	6761.27		
-342.2	6761.21	-339.79	6761.14	-337.88	6761.18	-336.5	6761.2	-334.89	6761.24		
-333.02	6761.25	-329.76	6761.29	-329.27	6761.25	-329.25	6761.29	-328.34	6761.23		
-326.01	6761.1	-324.59	6761.01	-323.85	6761.02	-322.77	6760.96	-320.85	6760.84		
-319.53	6760.77	-316.17	6760.64	-314.72	6760.62	-314.14	6760.59	-311.98	6760.53		
-310.55	6760.51	-309.62	6760.48	-307.66	6760.32	-306.81	6760.31	-305.87	6760.28		
-304.43	6760.25	-303.7	6760.25	-302.69	6760.23	-301.69	6760.23	-299.69	6760.25		
-297.95	6760.2	-294.71	6760.08	-294.67	6760.07	-291.83	6760.01	-289.32	6759.94		
-288.24	6759.93	-286.65	6759.9	-279.61	6759.9	-277.45	6759.85	-275.29	6759.81		
-274.05	6759.81	-271.24	6759.69	-269.61	6759.63	-268.81	6759.62	-264.5	6759.62		
-263.75	6759.66	-263.42	6759.66	-261.88	6759.73	-261.26	6759.75	-259.59	6759.83		
-259.1	6759.81	-257.2	6759.83	-256.94	6759.84	-254.57	6759.86	-253.57	6759.93		
-252.63	6759.95	-251.55	6759.99	-249.71	6760.04	-248.31	6760.04	-244.55	6760.12		
-243.54	6760.13	-241.28	6760.13	-240.76	6760.12	-239.41	6760.12	-237.53	6760.16		
-235.67	6760.16	-234.52	6760.17	-232.12	6760.22	-231.51	6760.2	-229.51	6760.16		
-227.24	6760.16	-225.37	6760.22	-224.44	6760.24	-221.33	6760.11	-220.69	6760.11		
-219.76	6760.09	-218.48	6760.09	-216.48	6760.11	-215.47	6760.13	-214.47	6760.18		
-212.27	6760.18	-210.39	6760.19	-209.46	6760.17	-207.59	6760.19	-206.22	6760.19		
-205.71	6760.2	-204.06	6760.2	-201.44	6760.23	-200.44	6760.23	-199.16	6760.25		
-198.67	6760.24	-197.29	6760.24	-196.51	6760.23	-194.35	6760.23	-191.11	6760.3		
-188.96	6760.36	-185.72	6760.36	-184.4	6760.37	-182.48	6760.32	-180.32	6760.28		
-179.24	6760.29	-177.09	6760.34	-174.82	6760.4	-173.85	6760.44	-172.95	6760.46		

-172.77	6760.48	-169.53	6760.51	-167.34	6760.51	-164.35	6760.62	-162.66	6760.5
-161.72	6760.45	-160.9	6760.39	-159.33	6760.3	-158.91	6760.29	-157.33	6760.29
-156.58	6760.28	-154.32	6760.41	-150.11	6760.41	-149.55	6760.4	-145.79	6760.4
-144.87	6760.41	-143.63	6760.41	-143.29	6760.42	-140.39	6760.44	-139.26	6760.44
-135	6760.3	-133.64	6760.29	-130.26	6760.24	-129.6	6760.24	-127.44	6760.15
-124.28	6760	-122.41	6759.95	-122.05	6759.95	-119.89	6759.89	-118.23	6759.85
-114.92	6759.71	-114.22	6759.69	-111.26	6759.82	-109.21	6759.92	-108.02	6760.03
-107.43	6760.04	-106.2	6760.11	-104.19	6760.19	-103.19	6760.16	-102.75	6760.19
-102.62	6760.15	-101.54	6760.2	-100.18	6760.25	-99.94	6760.27	-98.07	6760.34
-93.39	6760.49	-92.45	6760.53	-91.83	6760.58	-91.52	6760.58	-89.67	6760.73
-89.16	6760.78	-86.44	6760.86	-85.36	6760.9	-84.03	6760.93	-81.22	6760.81
-81.04	6760.81	-79.13	6760.65	-75.64	6760.65	-75.6	6760.61	-75.12	6760.61
-73.49	6760.51	-71.11	6760.34	-70.92	6760.35	-70.25	6760.28	-69.05	6760.3
-65.31	6760.1	-64.85	6760.08	-64.37	6760.11	-63.09	6760.05	-62.09	6760.02
-60.08	6759.94	-59.08	6759.89	-58.38	6760.01	-56.88	6760.29	-55.15	6760.6
-54.08	6760.8	-49.78	6760.44	-49.06	6760.37	-48.71	6760.29	-48.42	6760.17
-48.06	6760.09	-46.55	6759.61	-45.97	6759.43	-44.05	6758.84	-42.79	6758.65
-42.04	6758.55	-40.12	6758.27	-39.04	6758.13	-38.09	6757.92	-37.15	6757.75
-36.03	6757.53	-34.03	6757.16	-33.47	6757.16	-31.53	6757.21	-29.38	6757.27
-29.01	6757.27	-27.23	6757.34	-26.01	6757.36	-23.94	6757.42	-20.97	6757.48
-20.24	6757.5	-19.3	6757.53	-16.49	6757.59	-13.98	6757.7	-11.12	6757.76
-8.95	6757.83	-7.09	6758.14	-5.96	6758.32	-3.96	6758.66	-1.95	6758.77
-5.1	6758.83	1.05	6758.88	4.18	6759.35	4.99	6759.46	6.05	6759.67
9.29	6760.52	11.08	6760.98	13.08	6760.87	15.46	6760.72	16.09	6760.69
16.81	6760.75	19.09	6760.97	21.09	6761.15	22.97	6760.99	23.91	6760.9
25.11	6760.8	25.4	6760.8	25.79	6760.74	26.11	6760.74	28.11	6760.65
30.49	6760.55	30.77	6760.63	31.12	6760.61	32.37	6760.49	35.19	6760.2
36.14	6760.37	39.14	6760.63	39.36	6760.59	39.88	6760.7	41.14	6760.46
42.14	6760.51	44.58	6760.66	44.73	6760.63	45.15	6760.66	46.15	6760.66
47.16	6760.6	47.4	6760.62	47.95	6760.55	49.28	6760.67	51.03	6760.84
52.1	6760.89	53.97	6760.95	56.54	6761.28	58.67	6761.54	61.19	6761.93
63.37	6762.01	64.06	6762.22	64.19	6762.23	66.21	6762.75	67.28	6762.82
68.07	6762.89	71.21	6762.59	71.82	6762.51	72.65	6762.37	72.76	6762.38
74.22	6762.1	74.64	6762.01	76.22	6761.71	77.46	6761.82	78.03	6761.81
78.23	6761.83	81.25	6761.86	82.16	6761.83	83.1	6761.84	86.24	6761.9
89.67	6761.85	90.91	6761.84	92.49	6761.84	93.06	6761.83	96.28	6761.83
98.43	6761.89	99.51	6761.91	102.28	6761.98	103.76	6761.99	105.29	6761.99
106.29	6762	107.02	6762.02	111.01	6762.22	112.22	6762.26	114.31	6762.29
115.98	6762.32	117.31	6762.36	118.31	6762.4	120.32	6762.45	121.61	6762.49
123.13	6762.51	124.43	6762.55	126.36	6762.62	128.5	6762.65	131.01	6762.7
131.34	6762.7	133.35	6762.79	135.71	6762.91	136.35	6762.95	137.58	6762.96
143.22	6763.02	144.16	6763.04	146.38	6763.06	148.38	6763.13	150.39	6763.21
151.39	6763.27	152.62	6763.4	153.21	6763.45	155.43	6763.68	156.37	6763.83
158.25	6764.02	160.72	6764.28	161.41	6764.32	162.41	6764.48	164.42	6764.78
164.83	6764.85	166.42	6765.09	167.65	6765.34	168.24	6765.47	170.47	6765.92
171.47	6766.13	173.61	6766.71	176.44	6767.46	177.45	6767.77	179.86	6768.53
179.93	6768.53								

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
-562.16	.05	-46.55	.04
		6.05	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	-46.55	6.05		112.11	112.11		.1	.3
Ineffective Flow			num=	1				
Sta L	Sta R	Elev	Permanent					
11.08	179.93	6761	F					

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4571.82

INPUT

Description: Bridge Cross Section 4

Station	Elevation	Data	num=	160
Sta	Elev	Sta	Elev	Sta
37.67	6762.81	85.67	6762.71	184.67
319.75	6762.86	340.62	6763.09	349.99
463.97	6762.88	502.54	6762.42	528.55
				6762.07
				543.28
				6761.77
				553.61
				6761.53

554.68	6761.5	555.89	6761.37	557.77	6761.15	558.72	6761.02	559.83	6760.77
561.1	6760.46	563.43	6759.91	564.31	6759.66	565.31	6759.46	565.38	6759.4
566.85	6759.14	567.52	6759.19	570.73	6759.25	571.86	6759.45	572.71	6759.31
576.08	6758.73	576.62	6758.68	580.88	6758	581.33	6757.88	581.43	6757.91
581.88	6757.8	582.27	6757.62	582.5	6757.24	582.88	6757.05	583.21	6757.01
583.57	6757.08	583.88	6757.04	584.16	6757.1	584.64	6757.27	586.89	6757.81
588.92	6758.01	592.13	6758.35	594.9	6758.53	596.91	6758.65	597.35	6758.69
597.48	6758.65	598.29	6758.72	602.06	6759.01	602.83	6758.95	606.04	6758.89
607.71	6758.84	609.6	6758.76	611.94	6758.7	613.52	6758.77	616.73	6758.89
618.08	6758.92	618.87	6758.92	621.85	6759.16	624.22	6759.17	626.97	6759.11
629.57	6759.11	631.27	6759.21	633.15	6759.29	633.85	6759.33	635.89	6759.41
638.99	6759.56	640.27	6759.61	642	6759.63	644.46	6759.76	645.62	6759.83
647.01	6759.87	648.23	6759.84	652.04	6759.8	654.18	6759.99	656.32	6760.19
657.39	6760.22	657.65	6760.06	658.46	6760.08	658.59	6760.05	661.04	6760.1
661.42	6760.23	661.67	6760.11	662.04	6760.23	663.81	6759.89	667.02	6759.29
672.06	6759.52	674.06	6759.32	676.5	6759.11	677.44	6758.99	677.72	6759.15
679.32	6758.92	681.21	6758.66	681.31	6758.65	682.22	6758.57	683.64	6758.67
683.67	6758.71	684.18	6758.74	687.28	6759.09	688.6	6758.64	690.74	6757.92
691.01	6757.99	691.43	6757.82	692.46	6757.66	693.45	6757.25	693.73	6757.24
694.21	6757.22	695.39	6757.37	696.6	6757.32	698.56	6757.26	700.73	6757.23
703.63	6757.31	704.11	6757.33	706.24	6757.34	710.03	6757.34	711.61	6757.38
713.6	6757.42	714.76	6757.44	715.98	6757.47	717.4	6757.53	719.72	6757.6
721.86	6757.69	723.46	6758.17	725.33	6759.08	727.77	6760.25	730.45	6760.84
732.5	6761.28	732.63	6761.34	733.69	6761.39	736.05	6761.43	736.98	6761.43
739.15	6761.47	740.31	6761.45	748.04	6761.26	749.67	6761.23	750.75	6761.19
752.2	6761.16	754.98	6761.05	757.15	6761.1	760.9	6761.1	763.07	6761.04
765.25	6761.06	765.97	6761.09	767.33	6761.09	768.87	6761.15	770.26	6761.16
773.22	6761.26	776.12	6761.34	777.57	6761.36	778.64	6761.39	781.01	6761.42
783.36	6761.3	784.56	6761.23	786.27	6761.15	787.1	6761.1	787.52	6761.1

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
37.67	.05	687.28	.04	725.33	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	687.28	725.33		307.12	307.12		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
766.76	821.51	6761.4	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4262.82

INPUT

Description: Bridge Cross Section 3

Station Elevation Data		num= 325							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-12.27	6760.05	-11.87	6760.05	-11.72	6760.04	-11.3	6760.04	-10.95	6760.04
-10.6	6760.03	-10.29	6760.03	-10.04	6760.03	-9.49	6760.02	-9.29	6760.02
-9.13	6760.02	-8.37	6760.01	-8.28	6760.01	-8.21	6760.01	-7.5	6760.02
-7.3	6760.02	-7.28	6760.02	-7.25	6760.02	-6.38	6760.03	-6.27	6760.03
-6.14	6760.03	-5.47	6760.02	-5.27	6760.02	-5.02	6760.02	-4.56	6760.02
-4.26	6760.02	-3.91	6760.02	-3.64	6760.02	-3.26	6760.01	-2.79	6760.02
-2.73	6760.03	-2.25	6760.04	-1.81	6760.05	-1.67	6760.05	-1.25	6760.06
-.9	6760.07	-.56	6760.07	-.24	6760.08	.01	6760.08	.56	6760.09
.76	6760.1	.93	6760.1	1.67	6760.11	1.77	6760.11	1.84	6760.11
2.61	6760.11	2.76	6760.1	2.77	6760.1	2.79	6760.1	3.67	6760.09
3.78	6760.09	3.9	6760.09	4.58	6760.08	4.78	6760.08	5.02	6760.08
5.5	6760.06	5.79	6760.06	6.14	6760.05	6.4	6760.05	6.73	6760.03
7.97	6760.07	8.11	6760.07	11.02	6760.01	11.48	6760.02	14.07	6760.07
14.84	6760.05	17.12	6760.01	18.22	6760.03	20.16	6760.01	21.78	6760.07
23.22	6760.11	24.95	6760.08	26.26	6760.04	28.32	6759.97	29.31	6759.94
31.69	6759.83	32.35	6759.82	35.06	6759.66	35.4	6759.63	38.43	6759.47
38.63	6759.47	41.25	6759.4	41.5	6759.4	41.8	6759.41	44.54	6759.46
45.17	6759.45	47.59	6759.38	48.54	6759.42	50.64	6759.48	52.38	6759.44
53.69	6759.4	55.15	6759.4	56.74	6759.41	57.05	6759.42	58.45	6759.46
61.58	6759.51	62.86	6759.52	66.63	6759.53	67.26	6759.54	71.5	6759.6
71.69	6759.61	71.72	6759.61	76.74	6759.62	77.65	6759.63	81.8	6759.63

83.58	6759.61	86.85	6759.64	89.51	6759.61	91.9	6759.56	95.44	6759.58
96.96	6759.55	101.37	6759.57	102.01	6759.57	105.74	6759.64	107	6759.74
107.07	6759.75	109.57	6759.54	109.59	6759.55	109.68	6759.55	112.04	6760
112.12	6760.01	113.23	6760.06	117.11	6760.3	117.18	6760.3	119.15	6759.55
122.23	6759.67	125.08	6759.79	127.28	6759.81	128.92	6759.8	132.34	6759.75
136.94	6759.67	137.39	6759.66	139.99	6759.72	142.34	6760	142.45	6759.99
142.87	6759.99	147.48	6760.09	147.5	6760.09	148.8	6759.48	152.55	6759.57
154.73	6759.66	157.61	6759.73	160.66	6759.73	162.66	6759.72	166.59	6759.86
167.72	6759.9	172.52	6759.83	172.77	6759.82	174.24	6759.78	177.83	6759.67
178.45	6759.67	182.88	6759.69	184.38	6759.71	187.93	6759.79	190.3	6759.77
192.92	6759.77	192.99	6759.76	195.62	6759.71	197.99	6759.69	200.45	6759.75
202.99	6759.77	205.28	6759.71	208	6759.6	210.11	6759.56	213	6759.57
214.94	6759.63	218	6759.72	219.77	6759.7	223.01	6759.73	224.6	6759.74
228.01	6759.73	229.44	6759.7	233.01	6759.58	234.27	6759.48	238.02	6759.25
238.48	6760.01	239.1	6760.43	240.53	6761.42	242.18	6762.56	242.32	6762.55
242.6	6762.55	242.82	6762.54	248.31	6762.7	258.28	6762.55	264.88	6762.45
265.37	6762.43	266.28	6762.39	267.43	6762.39	269.03	6762.27	274.52	6762.08
282.34	6761.61	285.68	6761.3	289.12	6761.13	294.19	6760.67	304.28	6759.49
304.29	6759.49	304.42	6759.47	304.94	6759.42	306.73	6759.51	306.95	6759.52
306.96	6759.52	307.49	6759.57	308.06	6759.58	309.49	6759.52	313.06	6759.17
316.39	6759	318.07	6758.9	321.22	6758.73	323.07	6758.56	326.05	6758.42
328.07	6758.34	330.88	6758.26	333.08	6758.36	335.71	6758.51	338.08	6758.57
340.55	6758.67	343.08	6758.78	345.38	6758.83	348.09	6758.73	350.21	6758.54
353.09	6758.23	355.04	6758.09	358.09	6758.06	359.87	6758.05	363.1	6758.32
364.7	6758.35	368.1	6758.3	369.53	6758.33	373.1	6758.27	374.36	6758.35
378.11	6758.52	379.19	6758.63	383.11	6759.08	384.02	6759.18	385.48	6759.26
388.11	6759.4	389.02	6759.43	393.11	6759.63	394.08	6759.67	398.11	6759.69
402.05	6759.46	403.11	6759.35	406.99	6759.06	407.84	6758.94	408.16	6758.6
408.28	6758.54	410.29	6757.46	412.45	6755.11	421.27	6754.59	430.18	6754.54
435.71	6754.94	442.23	6755.42	445.49	6756.34	447.1	6757.16	447.55	6757.68
447.57	6757.7	448.11	6757.84	449.76	6758.02	453.12	6758.52	454.82	6758.64
458.12	6759.01	459.89	6759.05	463.12	6759.15	464.95	6759.25	468.12	6759.33
470.01	6759.27	473.12	6759.33	475.07	6759.23	478.12	6759.07	480.13	6758.94
483.12	6758.74	485.2	6758.55	488.12	6758.33	490.97	6758.36	493.12	6758.41
495.32	6758.65	498.12	6758.81	500.38	6758.89	503.12	6758.96	505.45	6758.94
508.12	6758.95	510.51	6759.03	513.12	6759.1	515.57	6758.94	518.12	6758.89
520.63	6758.91	523.12	6758.93	525.69	6758.91	528.12	6758.81	530.76	6758.88
533.12	6758.99	535.82	6759.06	538.12	6759.21	540.88	6759.4	543.12	6759.5
545.94	6759.59	548.12	6759.61	551	6759.52	553.12	6759.51	553.19	6759.51
555.94	6759.42	558.13	6759.27	558.28	6759.26	560.78	6759.05	563.13	6758.82
565.62	6758.82	568.13	6758.9	570.46	6759.04	573.13	6759.25	575.3	6759.31
578.14	6759.46	581.17	6759.58	583.14	6759.61	584.98	6759.66	588.14	6759.74
589.82	6759.73	593.15	6759.86	593.88	6759.96	593.88	6760.18	596.49	6760.47
597.27	6760.51	597.27	6761.36	599.44	6761.81	601.83	6761.8	648.27	6760.69

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-12.27	.05	406.99	.04	458.12	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	406.99	458.12		84.42 84.42	84.42		.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
6.4	419.34	6762	F
596.84	648.27	6762	F

BRIDGE

RIVER: Walton Creek
 REACH: lower-main split RS: 4220.82

INPUT

Description: Future Stone Lane

Distance from Upstream XS = 19.5

Deck/Roadway Width = 45

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 15

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
-9.49	6762.75		5.64	6762.69		30.64	6762.44	

55.64	6762.19	80.64	6762	155.52	6761.99
205.51	6761.96	239.23	6762	330.6	6763.52
354.23	6764	387.67	6764.35	419.34	6764.44 6760.92
575	6764.86 6760.92	729.34	6764.44 6760.92	765	6764.35

Upstream Bridge Cross Section Data

Station Elevation Data		num=		325					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-12.27	6760.05	-11.87	6760.05	-11.72	6760.04	-11.3	6760.04	-10.95	6760.04
-10.6	6760.03	-10.29	6760.03	-10.04	6760.03	-9.49	6760.02	-9.29	6760.02
-9.13	6760.02	-8.37	6760.01	-8.28	6760.01	-8.21	6760.01	-7.5	6760.02
-7.3	6760.02	-7.28	6760.02	-7.25	6760.02	-6.38	6760.03	-6.27	6760.03
-6.14	6760.03	-5.47	6760.02	-5.27	6760.02	-5.02	6760.02	-4.56	6760.02
-4.26	6760.02	-3.91	6760.02	-3.64	6760.02	-3.26	6760.01	-2.79	6760.02
-2.73	6760.03	-2.25	6760.04	-1.81	6760.05	-1.67	6760.05	-1.25	6760.06
-.9	6760.07	-.56	6760.07	-.24	6760.08	.01	6760.08	.56	6760.09
.76	6760.1	.93	6760.1	1.67	6760.11	1.77	6760.11	1.84	6760.11
2.61	6760.11	2.76	6760.1	2.77	6760.1	2.79	6760.1	3.67	6760.09
3.78	6760.09	3.9	6760.09	4.58	6760.08	4.78	6760.08	5.02	6760.08
5.5	6760.06	5.79	6760.06	6.14	6760.05	6.4	6760.05	6.73	6760.03
7.97	6760.07	8.11	6760.07	11.02	6760.01	11.48	6760.02	14.07	6760.07
14.84	6760.05	17.12	6760.01	18.22	6760.03	20.16	6760.01	21.78	6760.07
23.22	6760.11	24.95	6760.08	26.26	6760.04	28.32	6759.97	29.31	6759.94
31.69	6759.83	32.35	6759.82	35.06	6759.66	35.4	6759.63	38.43	6759.47
38.63	6759.47	41.25	6759.4	41.5	6759.4	41.8	6759.41	44.54	6759.46
45.17	6759.45	47.59	6759.38	48.54	6759.42	50.64	6759.48	52.38	6759.44
53.69	6759.4	55.15	6759.4	56.74	6759.41	57.05	6759.42	58.45	6759.46
61.58	6759.51	62.86	6759.52	66.63	6759.53	67.26	6759.54	71.5	6759.6
71.69	6759.61	71.72	6759.61	76.74	6759.62	77.65	6759.63	81.8	6759.63
83.58	6759.61	86.85	6759.64	89.51	6759.61	91.9	6759.56	95.44	6759.58
96.96	6759.55	101.37	6759.57	102.01	6759.57	105.74	6759.64	107	6759.74
107.07	6759.75	109.57	6759.54	109.59	6759.55	109.68	6759.55	112.04	6760
112.12	6760.01	113.23	6760.06	117.11	6760.3	117.18	6760.3	119.15	6759.55
122.23	6759.67	125.08	6759.79	127.28	6759.81	128.92	6759.8	132.34	6759.75
136.94	6759.67	137.39	6759.66	139.99	6759.72	142.34	6760	142.45	6759.99
142.87	6759.99	147.48	6760.09	147.5	6760.09	148.8	6759.48	152.55	6759.57
154.73	6759.66	157.61	6759.73	160.66	6759.73	162.66	6759.72	166.59	6759.86
167.72	6759.9	172.52	6759.83	172.77	6759.82	174.24	6759.78	177.83	6759.67
178.45	6759.67	182.88	6759.69	184.38	6759.71	187.93	6759.79	190.3	6759.77
192.92	6759.76	192.99	6759.76	195.62	6759.71	197.99	6759.69	200.45	6759.75
202.99	6759.77	205.28	6759.71	208	6759.6	210.11	6759.56	213	6759.57
214.94	6759.63	218	6759.72	219.77	6759.7	223.01	6759.73	224.6	6759.74
228.01	6759.73	229.44	6759.7	233.01	6759.58	234.27	6759.48	238.02	6759.25
238.48	6760.01	239.1	6760.43	240.53	6761.42	242.18	6762.56	242.32	6762.55
242.6	6762.55	242.82	6762.54	248.31	6762.7	258.28	6762.55	264.88	6762.45
265.37	6762.43	266.28	6762.39	267.43	6762.39	269.03	6762.27	274.52	6762.08
282.34	6761.61	285.68	6761.3	289.12	6761.13	294.19	6760.67	304.28	6759.49
304.29	6759.49	304.42	6759.47	304.94	6759.42	306.73	6759.51	306.95	6759.52
306.96	6759.52	307.49	6759.57	308.06	6759.58	309.49	6759.52	313.06	6759.17
316.39	6759	318.07	6758.9	321.22	6758.73	323.07	6758.56	326.05	6758.42
328.07	6758.34	330.88	6758.26	333.08	6758.36	335.71	6758.51	338.08	6758.57
340.55	6758.67	343.08	6758.78	345.38	6758.83	348.09	6758.73	350.21	6758.54
353.09	6758.23	355.04	6758.09	358.09	6758.06	359.87	6758.05	363.1	6758.32
364.7	6758.35	368.1	6758.3	369.53	6758.33	373.1	6758.27	374.36	6758.35
378.11	6758.52	379.19	6758.63	383.11	6759.08	384.02	6759.18	385.48	6759.26
388.11	6759.4	389.02	6759.43	393.11	6759.63	394.08	6759.67	398.11	6759.69
402.05	6759.46	403.11	6759.35	406.99	6759.06	407.84	6758.94	408.16	6758.6
408.28	6758.54	410.29	6757.46	412.45	6755.11	421.27	6754.59	430.18	6754.54
435.71	6754.94	442.23	6755.42	445.49	6756.34	447.1	6757.16	447.55	6757.68
447.57	6757.7	448.11	6757.84	449.76	6758.02	453.12	6758.52	454.82	6758.64
458.12	6759.01	459.89	6759.05	463.12	6759.15	464.95	6759.25	468.12	6759.33
470.01	6759.27	473.12	6759.33	475.07	6759.23	478.12	6759.07	480.13	6758.94
483.12	6758.74	485.2	6758.55	488.12	6758.33	490.97	6758.36	493.12	6758.41
495.32	6758.65	498.12	6758.81	500.38	6758.89	503.12	6758.96	505.45	6758.94
508.12	6758.95	510.51	6759.03	513.12	6759.1	515.57	6758.94	518.12	6758.89
520.63	6758.91	523.12	6758.93	525.69	6758.91	528.12	6758.81	530.76	6758.88
533.12	6758.99	535.82	6759.06	538.12	6759.21	540.88	6759.4	543.12	6759.5
545.94	6759.59	548.12	6759.61	551	6759.52	553.12	6759.51	553.19	6759.51
555.94	6759.42	558.13	6759.27	558.28	6759.26	560.78	6759.05	563.13	6758.82
565.62	6758.82	568.13	6758.9	570.46	6759.04	573.13	6759.25	575.3	6759.31
578.14	6759.46	581.17	6759.58	583.14	6759.61	584.98	6759.66	588.14	6759.74

589.82	6759.73	593.15	6759.86	593.88	6759.96	593.88	6760.18	596.49	6760.47
597.27	6760.51	597.27	6761.36	599.44	6761.81	601.83	6761.8	648.27	6760.69

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-12.27	.05	406.99	.04	458.12	.05

Bank Sta: Left Right Coeff Contr. Expan.

406.99	458.12	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
6.4	419.34	6762	F
596.84	648.27	6762	F

Downstream Deck/Roadway Coordinates num= 15

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
-9.49	6762.75		5.64	6762.69		30.64	6762.44	
55.64	6762.19		80.64	6762		155.52	6761.99	
205.51	6761.96		239.23	6762		330.6	6763.52	
354.23	6764		387.67	6764.35		419.34	6764.44	6760.92
575	6764.86	6760.92	729.34	6764.44	6760.92	765	6764.35	

Downstream Bridge Cross Section Data num= 489

Station	Elevation	Data	num=	489	Sta	Elev	Sta	Elev	Sta	Elev
164.02	6762.38	164.04	6762.38	165.56	6762.36	168.94	6762.34	170.63	6762.3	
172.01	6762.28	174.11	6762.23	175.07	6762.22	176.69	6762.18	177.12	6762.18	
178.14	6762.15	181.62	6762.09	182.22	6762.07	183.15	6762.06	186.31	6761.99	
186.69	6761.99	189.22	6761.93	189.6	6761.93	191.76	6761.88	192.19	6761.88	
194.77	6761.82	195.14	6761.82	198.29	6761.75	200.21	6761.72	201.9	6761.68	
203.59	6761.65	206.97	6761.65	209.81	6761.68	210.83	6761.68	213.89	6761.71	
214.91	6761.71	216.72	6761.73	217.86	6761.73	217.96	6761.74	219	6761.74	
219.3	6761.75	220.49	6761.75	220.59	6761.76	221.88	6761.76	222.06	6761.77	
223.17	6761.77	224.46	6761.78	224.72	6761.79	225.76	6761.79	226.15	6761.8	
227.25	6761.8	228.34	6761.82	229.79	6761.83	230.64	6761.85	232.21	6761.87	
233.09	6761.89	235.95	6761.93	238.53	6761.93	239.4	6761.92	240.63	6761.93	
241.43	6761.95	243.11	6761.95	243.7	6761.96	244.57	6761.95	246.29	6761.99	
247.52	6761.98	248.01	6761.99	249.56	6761.99	249.74	6762	250.75	6761.99	
251.46	6762.01	254.01	6762.02	254.04	6762.04	254.24	6762.03	255.65	6762.03	
255.77	6762.04	256.72	6762.03	257.49	6762.05	259.19	6762.06	259.21	6762.08	
260.08	6762.07	260.94	6762.08	262.1	6762.07	263.52	6762.09	264.79	6762.1	
265.25	6762.14	265.38	6762.11	266.11	6762.12	269.09	6762.12	270.33	6762.13	
271.28	6762.18	271.57	6762.15	272.14	6762.16	274.04	6762.16	274.72	6762.17	
275.97	6762.17	276.52	6762.18	277.31	6762.22	277.75	6762.2	280.03	6762.2	
280.23	6762.21	281.47	6762.21	282.48	6762.24	282.7	6762.22	283.34	6762.25	
283.94	6762.24	285.18	6762.24	288.16	6762.26	288.51	6762.28	288.89	6762.27	
289.37	6762.29	291.1	6762.28	291.21	6762.29	292.6	6762.3	293.84	6762.3	
294.54	6762.32	295.08	6762.31	295.4	6762.33	296.15	6762.32	300.57	6762.36	
301.83	6762.36	303.4	6762.38	304.41	6762.38	306.21	6762.4	307.5	6762.4	
310.51	6762.43	311.52	6762.43	313.18	6762.45	314.36	6762.45	314.57	6762.46	
316.95	6762.47	318.59	6762.49	319.83	6762.49	321.25	6762.5	322.7	6762.52	
323.84	6762.52	326.76	6762.55	329.72	6762.57	330.83	6762.57	330.96	6762.58	
332.2	6762.58	332.46	6762.59	334.89	6762.6	337.94	6762.63	341.56	6762.65	
341.93	6762.66	343.02	6762.66	343.34	6762.67	344.52	6762.67	344.57	6762.68	
345.81	6762.68	346.07	6762.69	347.23	6762.69	350.13	6762.72	351.14	6762.72	
352.91	6762.74	354.19	6762.74	354.47	6762.75	355.72	6762.75	356.95	6762.77	
358.26	6762.77	358.31	6762.78	360.89	6762.78	361.3	6762.79	362.61	6762.79	
363.13	6762.8	364.26	6762.8	364.34	6762.81	366.92	6762.81	367.4	6762.82	
369.51	6762.82	369.93	6762.83	372.48	6762.83	372.95	6762.84	374.68	6762.84	
375.51	6762.85	377.56	6762.85	377.98	6762.86	383.29	6762.86	384.67	6762.85	
385.68	6762.86	386.64	6762.89	387.23	6762.9	393.58	6762.96	393.71	6762.97	
396.71	6763	397.53	6763.03	398.91	6763.1	399.5	6763.12	401.48	6763.22	
402.71	6763.27	403.45	6763.03	403.71	6762.93	403.98	6762.95	404.99	6762.98	
406.01	6762.99	406.71	6763.01	409.05	6763.04	409.71	6763.06	411.35	6763.08	
412.09	6763.1	413.1	6763.11	414.71	6763.14	416.28	6763.15	417.15	6763.17	
418.71	6763.23	420.23	6763.3	421.22	6763.28	424.18	6763.16	425.17	6763.13	
425.71	6763.1	426.71	6763.07	427.29	6763.04	428.71	6762.99	429.11	6762.99	
429.71	6762.96	431.09	6763	431.34	6762.95	431.71	6762.96	432.71	6762.92	
433.71	6762.97	434.05	6762.95	434.38	6763	434.71	6762.98	435.39	6762.9	
437.71	6762.58	438.43	6762.54	440.71	6762.45	441.47	6762.37	442.49	6762.23	

443.5	6762.06	444.91	6761.79	446.88	6761.43	448.86	6761.15	449.84	6761
452.62	6760.61	454.65	6760.32	455.66	6760.17	456.68	6760.03	458.7	6759.73
459.71	6759.59	460.7	6759.35	461.69	6759.21	462.76	6759.25	464.65	6759.35
466.81	6759.44	468.6	6759.46	469.85	6759.45	470.86	6759.43	473.72	6759.4
474.72	6759.36	475.93	6759.3	476.94	6759.26	477.96	6759.23	481.72	6759.15
484.04	6759.14	484.39	6759.1	484.72	6759.1	485.38	6759.05	486.72	6758.97
488.09	6758.93	489.1	6758.89	489.33	6758.86	490.12	6758.83	491.72	6758.72
493.16	6758.55	494.17	6758.42	494.26	6758.42	495.72	6758.27	496.72	6758.16
498.21	6757.95	498.72	6757.87	499.2	6757.83	499.24	6757.8	501.72	6757.57
503.15	6757.47	503.29	6757.45	504.31	6757.38	506.72	6757.19	508.08	6757.25
509.07	6757.28	509.37	6757.23	509.72	6757.25	510.72	6757.19	512.03	6757.13
513.02	6757.12	514.44	6757.09	516.47	6757.1	518.94	6757.22	519.51	6757.26
520.52	6757.29	521.72	6757.34	522.89	6757.31	524.86	6757.28	527.61	6757.31
528.63	6757.33	528.81	6757.32	529.64	6757.34	531.77	6757.27	532.76	6757.33
533.69	6757.37	534.71	6757.43	536.73	6757.39	538.68	6757.27	539.77	6757.19
541.65	6757.09	543.72	6756.89	544.84	6756.79	546.72	6756.78	549.91	6756.64
551.72	6756.64	551.94	6756.63	553.72	6756.63	554.72	6756.61	555.46	6756.61
556.72	6756.59	557.44	6756.65	560.04	6756.89	560.4	6756.84	560.72	6756.87
561.72	6756.85	562.72	6756.78	564.1	6756.7	565.11	6756.63	565.34	6756.67
565.72	6756.65	566.12	6756.72	566.32	6756.85	566.72	6756.92	567.14	6756.85
567.31	6756.51	567.72	6756.44	568.15	6756.25	568.3	6756.29	568.72	6756.09
569.16	6755.99	569.28	6755.99	569.72	6755.88	570.18	6755.81	572.84	6755.37
573.23	6755.3	576.26	6754.81	577.18	6754.65	579.16	6754.33	579.73	6754.23
581.13	6754.05	582.34	6753.93	582.73	6753.88	583.1	6753.88	583.35	6753.82
583.73	6753.81	584.09	6753.86	584.36	6753.83	585.08	6753.91	585.38	6753.96
587.05	6754.11	587.73	6754.16	588.42	6754.23	589.43	6754.31	590.01	6754.37
592.73	6754.6	596.53	6754.94	597.84	6755.06	598.73	6755.14	600.58	6755.54
601.73	6755.8	601.86	6755.84	603.83	6756.34	604.82	6756.6	606.79	6757.1
607.67	6757.33	608.77	6757.65	609.7	6758.06	610.71	6758.12	611.73	6758.13
615.68	6757.89	616.79	6757.85	618.64	6757.83	618.73	6757.82	620.85	6757.8
621.6	6757.71	621.86	6757.7	624.56	6757.65	625.73	6757.62	629.5	6757.62
629.73	6757.63	630.98	6757.63	631.47	6757.69	631.73	6757.69	633.01	6757.77
635.42	6757.94	636.05	6757.98	637.06	6758.08	638.73	6758.23	639.73	6758.33
640.36	6758.38	641.12	6758.46	641.34	6758.45	642.13	6758.49	642.33	6758.47
644.16	6758.5	644.73	6758.5	646.73	6758.53	649.73	6758.53	650.23	6758.54
651.73	6758.54	653.19	6758.5	654.18	6758.46	654.73	6758.45	655.73	6758.41
656.73	6758.39	658.34	6758.44	660.37	6758.52	661.73	6758.56	663.06	6758.56
663.41	6758.55	664.73	6758.55	665.73	6758.54	666.02	6758.52	666.45	6758.54
666.73	6758.52	668.73	6758.57	669.97	6758.59	671.73	6758.64	672.93	6758.64
674.56	6758.66	676.73	6758.67	678.85	6758.47	680.64	6758.29	681.81	6758.19
684.69	6758.13	684.78	6758.12	686.75	6758.08	687.93	6757.95	688.75	6757.85
690.77	6757.62	691.79	6757.51	696.85	6757.31	697.87	6757.33	699.89	6757.39
700.57	6757.4	701.92	6757.44	704.96	6757.51	706.74	6757.56	707.48	6757.49
708	6757.46	709.01	6757.38	709.74	6757.31	711.74	6757.14	712.05	6757.1
715.23	6756.81	716.74	6756.68	719.93	6756.68	720.58	6756.69	721.74	6756.69
721.86	6756.7	723.69	6757.1	724.73	6757.32	725.15	6757.42	726.69	6757.75
727.84	6758.02	728.62	6758.19	729.75	6758.45	730.96	6758.74	731.75	6758.92
732	6758.95	732.48	6759.05	732.75	6759.08	735.38	6759.54	736.75	6759.79
738.23	6759.78	741.17	6759.78	741.34	6759.86	741.75	6759.86	744.45	6760.64
744.76	6760.72	746	6761.08	746.53	6761.05	746.76	6761.12	747.93	6761.22
751.8	6761.58	756.76	6761.84	756.91	6761.81	758.56	6761.56	759.52	6761.4
760.03	6761.36	760.49	6761.25	761.77	6761.21	763.14	6760.9	764.77	6760.54
765.22	6760.52	765.32	6760.42	766.77	6760.35	768.69	6760.33		

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
164.02	.05	567.31	.04	604.82	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	567.31	604.82		.3	.5

Ineffective Flow	num= 2		
Sta L	Sta R	Elev	Permanent
164.02	419.34	6762	F
729.34	768.69	6762	F

Upstream Embankment side slope	=	1 horiz. to 1.0 vertical
Downstream Embankment side slope	=	1 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.98
Elevation at which weir flow begins	=	6762
Energy head used in spillway design	=	
Spillway height used in design	=	

Weir crest shape = Broad Crested

Number of Piers = 5

Pier Data
Pier Station Upstream= 469.34 Downstream= 469.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Pier Data
Pier Station Upstream= 519.34 Downstream= 519.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Pier Data
Pier Station Upstream= 579.34 Downstream= 579.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Pier Data
Pier Station Upstream= 629.34 Downstream= 629.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Pier Data
Pier Station Upstream= 679.34 Downstream= 679.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy

Momentum Cd = 1.2

Selected Low Flow Methods = Energy

High Flow Method

Energy Only

Additional Bridge Parameters

Add Friction component to Momentum

Do not add Weight component to Momentum

Class B flow critical depth computations use critical depth
inside the bridge at the upstream end

Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek

REACH: lower-main split RS: 4178.71

INPUT

Description: Bridge Cross Section 2

Station Elevation Data		num= 489							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
164.02	6762.38	164.04	6762.38	165.56	6762.36	168.94	6762.34	170.63	6762.3
172.01	6762.28	174.11	6762.23	175.07	6762.22	176.69	6762.18	177.12	6762.18
178.14	6762.15	181.62	6762.09	182.22	6762.07	183.15	6762.06	186.31	6761.99
186.69	6761.99	189.22	6761.93	189.6	6761.93	191.76	6761.88	192.19	6761.88
194.77	6761.82	195.14	6761.82	198.29	6761.75	200.21	6761.72	201.9	6761.68
203.59	6761.65	206.97	6761.65	209.81	6761.68	210.83	6761.68	213.89	6761.71
214.91	6761.71	216.72	6761.73	217.86	6761.73	217.96	6761.74	219	6761.74
219.3	6761.75	220.49	6761.75	220.59	6761.76	221.88	6761.76	222.06	6761.77
223.17	6761.77	224.46	6761.78	224.72	6761.79	225.76	6761.79	226.15	6761.8
227.25	6761.8	228.34	6761.82	229.79	6761.83	230.64	6761.85	232.21	6761.87
233.09	6761.89	235.95	6761.93	238.53	6761.93	239.4	6761.92	240.63	6761.93
241.43	6761.95	243.11	6761.95	243.7	6761.96	244.57	6761.95	246.29	6761.99
247.52	6761.98	248.01	6761.99	249.56	6761.99	249.74	6762	250.75	6761.99
251.46	6762.02	253.01	6762.02	254.04	6762.04	254.24	6762.03	255.65	6762.03
255.77	6762.04	256.72	6762.03	257.49	6762.05	259.19	6762.06	259.21	6762.08
260.08	6762.07	260.94	6762.08	262.1	6762.07	263.52	6762.09	264.79	6762.1
265.25	6762.14	265.38	6762.11	266.11	6762.12	269.09	6762.12	270.33	6762.13
271.28	6762.18	271.57	6762.15	272.14	6762.16	274.04	6762.16	274.72	6762.17
275.97	6762.17	276.52	6762.18	277.31	6762.22	277.75	6762.2	280.03	6762.2
280.23	6762.21	281.47	6762.21	282.48	6762.24	282.7	6762.22	283.34	6762.25
283.94	6762.24	285.18	6762.24	288.16	6762.26	288.51	6762.28	288.89	6762.27
289.37	6762.29	291.1	6762.28	291.21	6762.29	292.6	6762.3	293.84	6762.3
294.54	6762.32	295.08	6762.31	295.4	6762.33	296.15	6762.32	300.57	6762.36
301.83	6762.36	303.4	6762.38	304.41	6762.38	306.21	6762.4	307.5	6762.4
310.51	6762.43	311.52	6762.43	313.18	6762.45	314.36	6762.45	314.57	6762.46
316.95	6762.47	318.59	6762.49	319.83	6762.49	321.25	6762.5	322.7	6762.52
323.84	6762.52	326.76	6762.55	329.72	6762.57	330.83	6762.57	330.96	6762.58
332.2	6762.58	332.46	6762.59	334.89	6762.6	337.94	6762.63	341.56	6762.65
341.93	6762.66	343.02	6762.66	343.34	6762.67	344.52	6762.67	344.57	6762.68
345.81	6762.68	346.07	6762.69	347.23	6762.69	350.13	6762.72	351.14	6762.72
352.91	6762.74	354.19	6762.74	354.47	6762.75	355.72	6762.75	356.95	6762.77
358.26	6762.77	358.31	6762.78	360.89	6762.78	361.3	6762.79	362.61	6762.79
363.13	6762.8	364.26	6762.8	364.34	6762.81	366.92	6762.81	367.4	6762.82
369.51	6762.82	369.93	6762.83	372.48	6762.83	372.95	6762.84	374.68	6762.84
375.51	6762.85	377.56	6762.85	377.98	6762.86	383.29	6762.86	384.67	6762.85
385.68	6762.86	386.64	6762.89	387.23	6762.9	393.58	6762.96	393.71	6762.97
396.71	6763	397.53	6763.03	398.91	6763.1	399.5	6763.12	401.48	6763.22
402.71	6763.27	403.45	6763.03	403.71	6762.93	403.98	6762.95	404.99	6762.98
406.01	6762.99	406.71	6763.01	409.05	6763.04	409.71	6763.06	411.35	6763.08
412.09	6763.1	413.1	6763.11	414.71	6763.14	416.28	6763.15	417.15	6763.17
418.71	6763.23	420.23	6763.3	421.22	6763.28	424.18	6763.16	425.17	6763.13
425.71	6763.1	426.71	6763.07	427.29	6763.04	428.71	6762.99	429.11	6762.99
429.71	6762.96	431.09	6763	431.34	6762.95	431.71	6762.96	432.71	6762.92
433.71	6762.97	434.05	6762.95	434.38	6763	434.71	6762.98	435.39	6762.9
437.71	6762.58	438.43	6762.54	440.71	6762.45	441.47	6762.37	442.49	6762.23
443.5	6762.06	444.91	6761.79	446.88	6761.43	448.86	6761.15	449.84	6761
452.62	6760.61	454.65	6760.32	455.66	6760.17	456.68	6760.03	458.7	6759.73
459.71	6759.59	460.7	6759.35	461.69	6759.21	462.76	6759.25	464.65	6759.35
466.81	6759.44	468.6	6759.46	469.85	6759.45	470.86	6759.43	473.72	6759.4
474.72	6759.36	475.93	6759.3	476.94	6759.26	477.96	6759.23	481.72	6759.15
484.04	6759.14	484.39	6759.1	484.72	6759.1	485.38	6759.05	486.72	6758.97
488.09	6758.93	489.1	6758.89	489.33	6758.86	490.12	6758.83	491.72	6758.72
493.16	6758.55	494.17	6758.42	494.26	6758.42	495.72	6758.27	496.72	6758.16
498.21	6757.95	498.72	6757.87	499.2	6757.83	499.24	6757.8	501.72	6757.57
503.15	6757.47	503.29	6757.45	504.31	6757.38	506.72	6757.19	508.08	6757.25
509.07	6757.28	509.37	6757.23	509.72	6757.25	510.72	6757.19	512.03	6757.13
513.02	6757.12	514.44	6757.09	516.47	6757.1	518.94	6757.22	519.51	6757.26
520.52	6757.29	521.72	6757.34	522.89	6757.31	524.86	6757.28	527.61	6757.31
528.63	6757.33	528.81	6757.32	529.64	6757.34	531.77	6757.27	532.76	6757.33
533.69	6757.37	534.71	6757.43	536.73	6757.39	538.68	6757.27	539.77	6757.19
541.65	6757.09	543.72	6756.89	544.84	6756.79	546.72	6756.78	549.91	6756.64
551.72	6756.64	551.94	6756.63	553.72	6756.63	554.72	6756.61	555.46	6756.61
556.72	6756.59	557.44	6756.65	560.04	6756.89	560.4	6756.84	560.72	6756.87
561.72	6756.85	562.72	6756.78	564.1	6756.7	565.11	6756.63	565.34	6756.67
565.72	6756.65	566.12	6756.72	566.32	6756.85	566.72	6756.92	567.14	6756.85
567.31	6756.51	567.72	6756.44	568.15	6756.25	568.3	6756.29	568.72	6756.09

569.16	6755.99	569.28	6755.99	569.72	6755.88	570.18	6755.81	572.84	6755.37
573.23	6755.3	576.26	6754.81	577.18	6754.65	579.16	6754.33	579.73	6754.23
581.13	6754.05	582.34	6753.93	582.73	6753.88	583.1	6753.88	583.35	6753.82
583.73	6753.81	584.09	6753.86	584.36	6753.83	585.08	6753.91	585.38	6753.96
587.05	6754.11	587.73	6754.16	588.42	6754.23	589.43	6754.31	590.01	6754.37
592.73	6754.6	596.53	6754.94	597.84	6755.06	598.73	6755.14	600.58	6755.54
601.73	6755.8	601.86	6755.84	603.83	6756.34	604.82	6756.6	606.79	6757.1
607.67	6757.33	608.77	6757.65	609.7	6758.06	610.71	6758.12	611.73	6758.13
615.68	6757.89	616.79	6757.85	618.64	6757.83	618.73	6757.82	620.85	6757.8
621.6	6757.71	621.86	6757.7	624.56	6757.65	625.73	6757.62	629.5	6757.62
629.73	6757.63	630.98	6757.63	631.47	6757.69	631.73	6757.69	633.01	6757.77
635.42	6757.94	636.05	6757.98	637.06	6758.08	638.73	6758.23	639.73	6758.33
640.36	6758.38	641.12	6758.46	641.34	6758.45	642.13	6758.49	642.33	6758.47
644.16	6758.5	644.73	6758.5	646.73	6758.53	649.73	6758.53	650.23	6758.54
651.73	6758.54	653.19	6758.5	654.18	6758.46	654.73	6758.45	655.73	6758.41
656.73	6758.39	658.34	6758.44	660.37	6758.52	661.73	6758.56	663.06	6758.56
663.41	6758.55	664.73	6758.55	665.73	6758.54	666.02	6758.52	666.45	6758.54
666.73	6758.52	668.73	6758.57	669.97	6758.59	671.73	6758.64	672.93	6758.64
674.56	6758.66	676.73	6758.67	678.85	6758.47	680.64	6758.29	681.81	6758.19
684.69	6758.13	684.78	6758.12	686.75	6758.08	687.93	6757.95	688.75	6757.85
690.77	6757.62	691.79	6757.51	696.85	6757.31	697.87	6757.33	699.89	6757.39
700.57	6757.4	701.92	6757.44	704.96	6757.51	706.74	6757.56	707.48	6757.49
708	6757.46	709.01	6757.38	709.74	6757.31	711.74	6757.14	712.05	6757.1
715.23	6756.81	716.74	6756.68	719.93	6756.68	720.58	6756.69	721.74	6756.69
721.86	6756.7	723.69	6757.1	724.73	6757.32	725.15	6757.42	726.69	6757.75
727.84	6758.02	728.62	6758.19	729.75	6758.45	730.96	6758.74	731.75	6758.92
732	6758.95	732.48	6759.05	732.75	6759.08	735.38	6759.54	736.75	6759.79
738.23	6759.78	741.17	6759.78	741.34	6759.86	741.75	6759.86	744.45	6760.64
744.76	6760.72	746	6761.08	746.53	6761.05	746.76	6761.12	747.93	6761.22
751.8	6761.58	756.76	6761.84	756.91	6761.81	758.56	6761.56	759.52	6761.4
760.03	6761.36	760.49	6761.25	761.77	6761.21	763.14	6760.9	764.77	6760.54
765.22	6760.52	765.32	6760.42	766.77	6760.35	768.69	6760.33		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
164.02	.05	567.31	.04	604.82	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	567.31	604.82		151.66	151.67	151.66	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
164.02	419.34	6762	F
729.34	768.69	6762	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4033.14

INPUT

Description:

Station	Elevation	Data	num=	490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
35.66	6762.38	106.38	6762.38	107.33	6762.37	110.49	6762.37	111.16	6762.36
114.69	6762.36	114.97	6762.35	118.35	6762.35	118.79	6762.34	122.61	6762.34
123.11	6762.33	126.43	6762.33	127.32	6762.32	130.48	6762.32	131.21	6762.31
134.36	6762.31	134.69	6762.3	138.37	6762.3	138.85	6762.29	142.37	6762.29
142.67	6762.28	146.38	6762.28	146.49	6762.27	150.38	6762.27	150.47	6762.26
154.12	6762.26	154.39	6762.25	157.94	6762.25	158.39	6762.24	162.04	6762.24
162.4	6762.23	165.58	6762.23	166.25	6762.22	169.4	6762.22	170.36	6762.21
173.62	6762.21	174.18	6762.2	177.83	6762.2	178	6762.19	181.81	6762.19
182.04	6762.18	185.63	6762.18	186.25	6762.17	189.45	6762.17	189.96	6762.16
193.61	6762.16	194.23	6762.15	197.44	6762.15	197.82	6762.14	201.44	6762.14
201.87	6762.13	205.47	6762.13	205.49	6762.12	209.54	6762.12	209.8	6762.11
213.6	6762.11	214.11	6762.1	217.82	6762.1	218.42	6762.09	221.86	6762.09
222.63	6762.08	223.76	6762.08	224.78	6762.05	226.48	6762.01	227.9	6761.99
228.76	6761.97	230.48	6761.95	231.89	6761.92	233.07	6761.91	233.91	6761.89
235.65	6761.87	236.17	6761.86	239.21	6761.81	241.9	6761.78	242.79	6761.76
243.29	6761.76	244.02	6761.74	244.58	6761.74	245.48	6761.72	246.03	6761.72
247.9	6761.69	248.16	6761.68	250.85	6761.65	253.09	6761.61	253.53	6761.61

255.1	6761.58	257.08	6761.56	257.11	6761.55	259.8	6761.51	262.89	6761.45
265.09	6761.4	266.07	6761.39	267.2	6761.36	268.2	6761.35	271.44	6761.28
273.23	6761.26	273.24	6761.25	275.57	6761.23	277.28	6761.2	279.03	6761.19
281.09	6761.21	281.28	6761.22	282.49	6761.23	284.33	6761.26	285.34	6761.25
286.65	6761.21	287.55	6761.22	288.36	6761.24	289.34	6760.76	289.41	6760.75
290.24	6760.88	290.38	6760.82	292.03	6760.85	293.4	6760.86	295.18	6760.89
296.5	6760.9	297.48	6760.92	299.45	6760.94	300.46	6760.96	300.98	6760.96
302.47	6760.98	304.4	6760.93	305.5	6760.91	307.86	6760.85	309.03	6760.83
310.82	6760.79	311.72	6760.76	314.4	6760.7	314.78	6760.7	316.58	6760.65
322.85	6760.51	323.64	6760.5	325.16	6760.46	326.31	6760.42	326.94	6760.37
327.46	6760.35	327.83	6760.3	329.11	6760.07	329.45	6760.02	333.7	6759.2
334.13	6759.21	334.26	6759.29	334.7	6759.3	335.19	6759.34	335.23	6759.41
336.11	6759.5	337.96	6759.72	338.89	6759.84	339.61	6759.92	339.82	6759.93
341.67	6759.87	342.65	6759.85	344.56	6759.79	345.54	6759.78	346.53	6759.78
346.94	6759.77	347.51	6759.72	347.73	6759.72	348.73	6759.64	349.73	6759.57
350.46	6759.56	351.73	6759.52	352.43	6759.53	352.73	6759.52	353.73	6759.54
354.73	6759.55	356.1	6759.47	357.11	6759.42	357.35	6759.48	357.73	6759.45
358.13	6759.48	359.73	6759.57	362.2	6759.6	362.27	6759.58	362.73	6759.59
364.73	6759.53	366.2	6759.55	367.19	6759.54	367.28	6759.56	368.3	6759.53
369.73	6759.5	373.39	6759.5	373.73	6759.49	374.74	6759.49	375.74	6759.38
376.74	6759.28	377.74	6759.17	379.74	6758.9	381.74	6758.72	384.57	6758.46
384.89	6758.44	385.59	6758.43	387.85	6758.37	390.68	6758.4	391.78	6758.4
392.76	6758.41	394.74	6758.46	397.8	6758.52	399.74	6758.58	401.62	6758.6
402.88	6758.62	403.59	6758.58	404.74	6758.53	405.74	6758.53	405.93	6758.52
406.95	6758.52	407.52	6758.51	408.98	6758.51	409.74	6758.52	411.02	6758.41
413.05	6758.25	413.42	6758.25	414.07	6758.21	414.74	6758.19	415.74	6758.09
416.74	6758	417.74	6757.9	418.14	6757.87	419.33	6757.75	419.74	6757.72
420.74	6757.61	421.29	6757.56	423.22	6757.36	424.74	6757.22	425.74	6757.22
427.2	6757.2	428.18	6757.21	428.31	6757.19	429.74	6757.22	432.11	6757.34
433.1	6757.38	434.74	6757.46	437.74	6757.55	438.02	6757.54	438.48	6757.57
439	6757.56	440.51	6757.56	441.53	6757.57	442.55	6757.59	444.74	6757.61
447.63	6757.81	448.65	6757.89	449.82	6757.95	452.72	6758.24	453.73	6758.35
454.74	6758.38	457.69	6759.07	457.8	6759.1	459.75	6759.54	461.63	6759.59
462.89	6759.61	463.91	6759.64	464.58	6759.73	466.75	6759.71	467.53	6759.69
468.75	6759.68	469.75	6759.66	470.01	6759.64	471.75	6759.55	473.43	6759.45
474.08	6759.42	474.75	6759.37	479.16	6759.37	479.33	6759.35	480.75	6759.36
481.75	6759.38	482.29	6759.38	483.23	6759.4	484.25	6759.41	484.25	6759.43
485.26	6759.45	486.75	6759.5	487.75	6759.52	489.33	6759.57	490.35	6759.62
491.14	6759.64	491.75	6759.67	492.75	6759.7	493.75	6759.74	494.09	6759.74
494.42	6759.77	494.75	6759.77	495.75	6759.74	496.75	6759.7	497.04	6759.7
498.75	6759.64	499.01	6759.59	499.5	6759.62	499.99	6759.54	501.75	6759.35
501.96	6759.32	504.59	6759.04	504.75	6759.01	506.88	6758.77	507.86	6758.65
508.85	6758.54	509.83	6758.42	510.81	6758.23	511.8	6758.05	513.74	6757.68
514.76	6757.48	515.78	6757.3	516.72	6757.12	518.68	6756.76	519.85	6756.55
520.65	6756.53	520.86	6756.5	521.88	6756.45	522.9	6756.41	523.76	6756.36
524.59	6756.33	524.93	6756.3	525.57	6756.88	525.76	6756.86	525.95	6756.89
526.55	6757.36	526.96	6757.46	527.54	6757.43	527.76	6757.5	527.98	6757.65
528.52	6757.2	528.75	6757.36	528.99	6757.41	529.5	6757.17	529.75	6757.23
530.01	6757.12	530.48	6756.99	530.75	6756.88	531.02	6756.81	531.46	6756.64
532.04	6756.47	532.45	6756.46	533.06	6756.26	533.43	6756.27	533.75	6756.17
534.07	6756.11	534.41	6756.1	534.75	6756.04	535.4	6755.98	536.38	6755.87
536.75	6755.84	540.18	6755.5	541.19	6755.41	541.3	6755.41	544.24	6755.17
544.75	6755.14	546.22	6755.02	547.2	6754.95	547.75	6754.9	548.75	6754.83
549.17	6754.79	550.15	6754.72	552.75	6754.51	554.42	6754.39	555.07	6754.33
556.45	6754.23	556.75	6754.2	558.02	6754.11	560.75	6753.89	560.98	6753.88
562.55	6753.75	564.91	6753.58	565.75	6753.51	565.89	6753.52	566.62	6753.43
567.05	6753.47	567.75	6753.55	569.83	6754.01	570.69	6754.19	572.72	6754.64
573.74	6754.79	579.54	6754.73	579.75	6754.73	579.84	6754.77	580.65	6755.34
580.86	6755.43	581.63	6755.61	581.88	6755.71	582.62	6755.81	582.89	6755.89
583.6	6756.37	583.91	6756.42	584.59	6756.68	584.93	6756.67	585.57	6756.32
585.95	6756.26	586.55	6756.11	586.75	6756.08	587.75	6756.12	590.01	6756.16
590.75	6756.18	591.76	6756.19	592.46	6756.21	593.44	6756.22	594.08	6756.24
595.1	6756.25	595.76	6756.27	596.76	6756.28	598.36	6756.31	599.76	6756.33
601.31	6756.56	603.28	6756.86	604.76	6757.05	606.23	6757.72	606.29	6757.76
607.3	6758.21	609.76	6759.32	611.37	6759.54	611.76	6759.6	613.94	6759.89
614.76	6760.01	615.08	6760.01	616.76	6760.04	617.48	6760.04	618.5	6760.06
619.76	6760.07	621.55	6760.13	622.94	6760.15	623.59	6760.17	624.91	6760.19
625.89	6760.23	626.64	6760.25	628.68	6760.37	629.7	6760.42	630.72	6760.5
631.74	6760.59	632.75	6760.56	634.73	6760.52	635.72	6760.4	636.7	6760.27
637.84	6760.16	639.76	6759.99	640.63	6760	641.92	6760	642.6	6760.06
642.76	6760.06	643.76	6760.12	644.56	6760.18	646.76	6760.27	647.01	6760.27

647.51	6760.36	648.03	6760.4	649.05	6760.53	649.76	6760.63	654.76	6760.78
655.76	6760.87	657.34	6761	658.77	6761.13	659.77	6761.23	660.77	6761.22
661.77	6761.2	663.3	6761.2	663.77	6761.21	664.77	6761.21	666.18	6761.18
667.38	6761.14	670.11	6761.18	671.77	6761.23	672.77	6761.25	673.77	6761.25
674.77	6761.26	675.77	6761.32	676.77	6761.37	676.99	6761.37	677.56	6761.42
678.95	6761.38	679.6	6761.37	680.77	6761.28	681.9	6761.21	682.65	6761.14
683.77	6761.15	683.87	6761.16	685.83	6761.18	686.72	6761.2	687.8	6761.21
689.78	6761.15	691.73	6761.07	692.83	6761.02	695.66	6760.97	696.91	6760.93
698.61	6760.9	699.59	6760.87	701.77	6760.93	702.77	6760.97	703.02	6760.97
703.52	6760.93	703.77	6760.94	704.77	6760.89	705.05	6760.91	706.48	6760.97

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
35.66	.05	533.75	.04	582.89	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
533.75	582.89	150.8	150.79	150.8		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3887.57

INPUT

Description:

Station	Elevation	Data	num=	483					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
37.24	6762.34	37.54	6762.34	37.93	6762.35	54.35	6762.35	55.13	6762.36
70.31	6762.36	73.13	6762.33	74.12	6762.33	74.24	6762.32	76.38	6762.3
79.06	6762.27	81.24	6762.25	82.24	6762.23	83.01	6762.23	84	6762.21
86.5	6762.19	87.51	6762.17	88.24	6762.17	89.24	6762.15	90.92	6762.14
91.91	6762.12	93.59	6762.11	94.6	6762.09	96.24	6762.08	97.24	6762.06
97.84	6762.06	99.82	6762.04	100.81	6762.02	104.24	6761.99	104.66	6761.98
105.24	6761.97	108.13	6761.95	108.36	6761.94	110.17	6761.92	111.07	6761.92
114.3	6761.88	114.96	6761.88	116.09	6761.86	118.03	6761.84	119.5	6761.83
121.91	6761.8	122.81	6761.8	126.33	6761.76	126.8	6761.76	129.13	6761.73
129.74	6761.73	130.87	6761.71	133.65	6761.69	137.26	6761.65	138.46	6761.64
141.77	6761.6	143.38	6761.59	143.49	6761.58	144.48	6761.58	148.52	6761.53
151.34	6761.51	152.48	6761.49	154.75	6761.47	155.32	6761.46	158.16	6761.44
159.3	6761.42	161.91	6761.4	165.25	6761.36	167.96	6761.34	171.57	6761.3
175.7	6761.26	177.89	6761.23	178.8	6761.23	181.74	6761.2	182.75	6761.18
185.77	6761.15	186.58	6761.15	187.72	6761.13	188.23	6761.13	189.63	6761.11
190.54	6761.11	191.81	6761.09	193.41	6761.08	194.54	6761.06	197.01	6761.04
198.85	6761.02	200.47	6760.95	202.27	6760.89	203.88	6760.82	205.91	6760.75
206.79	6760.71	207.69	6760.68	209.32	6760.61	210.46	6760.57	211.94	6760.54
212.94	6760.54	215.07	6760.52	216.99	6760.5	218.37	6760.48	220.42	6760.47
222.68	6760.44	223.54	6760.44	226.99	6760.4	227.85	6760.4	229.18	6760.38
229.85	6760.38	231.09	6760.36	233.02	6760.35	234.26	6760.33	235.27	6760.33
237.44	6760.3	238.51	6760.3	240.77	6760.27	241.63	6760.27	243.12	6760.25
245.08	6760.24	246.45	6760.27	247.46	6760.3	247.54	6760.3	248.3	6760.31
249.38	6760.34	250.46	6760.36	251.42	6760.39	252.61	6760.41	253.69	6760.44
254.48	6760.45	255.85	6760.49	258.01	6760.53	258.49	6760.55	259.5	6760.55
260.79	6760.52	261.24	6760.52	262.32	6760.49	262.66	6760.49	266.51	6760.4
268.28	6760.37	273.9	6760.25	274.53	6760.23	276.71	6760.19	278.58	6760.13
279.58	6760.11	281.39	6760.05	281.74	6760.05	282.81	6760.02	283.89	6759.98
284.56	6759.97	284.97	6759.95	289.29	6759.83	289.57	6759.81	290.75	6759.58
293.6	6759	294.68	6758.8	295.58	6758.66	296.59	6758.49	297.59	6758.53
300.07	6759.13	300.6	6759.25	302.6	6759.73	303.6	6759.99	304.61	6760.23
305.61	6760.3	307.61	6760.35	308.55	6760.36	309.62	6760.39	311.35	6760.42
316.04	6760.52	317.33	6760.55	317.91	6760.55	319.64	6760.51	322.72	6760.46
324.47	6760.42	324.88	6760.42	329.67	6760.32	330.67	6760.29	331.02	6760.2
331.35	6760.24	331.67	6760.16	331.96	6760.05	332.43	6759.71	332.89	6759.53
333.68	6759.25	335.66	6758.52	337.69	6757.79	338.69	6757.61	340.38	6757.61
340.7	6757.6	341.7	6757.61	342.13	6757.66	342.7	6757.75	343.7	6758.02
344.13	6758.12	344.29	6758.13	344.71	6758.23	345.71	6758.43	346	6758.3
346.45	6758.15	346.71	6758.04	346.9	6757.98	347.93	6757.68	348.71	6757.42
348.91	6757.39	349.52	6757.35	349.9	6757.3	351.55	6757.17	352.56	6757.1
352.71	6757.08	353.71	6757.01	354.83	6757.03	358.64	6757.11	360.75	6757.32
361.74	6757.4	363.71	6757.58	365.74	6757.48	366.76	6757.54	368.64	6757.66
369.8	6757.64	370.81	6757.61	374.56	6757.31	375.88	6757.19	376.54	6757.18

376.71	6757.16	378.72	6757.1	380.95	6756.9	381.47	6756.82	381.97	6756.77
382.72	6756.66	383.72	6756.53	384.72	6756.55	386.02	6756.59	386.4	6756.51
386.72	6756.52	388.72	6756.32	389.36	6756.33	390.72	6756.33	393.72	6756.42
395.14	6756.36	396.15	6756.33	396.26	6756.35	397.24	6756.34	398.71	6756.37
400.2	6756.37	401.19	6756.4	401.22	6756.38	402.24	6756.43	403.71	6756.52
406.29	6756.57	407.11	6756.58	408.32	6756.58	408.71	6756.59	409.34	6756.65
410.71	6756.8	411.06	6756.82	411.36	6756.87	413.03	6756.97	414.71	6757.09
415	6757.12	417.71	6757.31	418.71	6757.37	419.71	6757.56	420.71	6757.74
420.92	6757.76	421.51	6757.89	423.53	6758.03	423.88	6758.08	425.56	6758.4
426.58	6758.6	428.71	6758.98	429.62	6759.05	430.79	6759.16	431.65	6759.22
433.75	6759.58	436.72	6759.67	438.74	6759.71	439.76	6759.68	441.64	6759.64
441.79	6759.63	443.61	6759.58	444.83	6759.53	445.58	6759.51	447.87	6759.42
449.9	6759.32	451.5	6759.22	451.93	6759.2	452.49	6759.22	452.71	6759.21
453.71	6759.21	453.95	6759.23	456.44	6759.33	456.71	6759.35	459.02	6759.42
462.07	6759.54	463.71	6759.54	465.11	6759.49	466.12	6759.44	467.14	6759.4
467.29	6759.38	468.15	6759.34	472.21	6759.09	472.22	6759.12	472.71	6759.08
474.71	6759.08	475.18	6759.09	476.26	6759.09	477.15	6759.13	477.28	6759.1
478.71	6759.21	481.1	6759.3	482.09	6759.35	482.35	6759.35	483.71	6759.42
486.72	6759.51	487.02	6759.53	487.72	6759.54	490.46	6759.73	491.47	6759.81
491.95	6759.81	492.49	6759.88	493.92	6759.81	494.52	6759.79	497.56	6759.64
498.72	6759.57	499.84	6759.55	501.82	6759.53	502.63	6759.51	504.78	6759.59
505.76	6759.67	506.75	6759.74	507.7	6759.82	508.71	6759.89	509.07	6759.87
510.74	6759.74	511.68	6759.66	512.77	6759.58	513.65	6759.54	515.63	6759.18
515.81	6759.14	517.84	6758.76	518.85	6758.65	522.91	6758.53	523.52	6758.45
523.92	6758.44	525.72	6758.32	527.47	6758.22	528.45	6758.14	529.44	6758.1
529.72	6758.1	533.05	6758	533.39	6758.04	533.72	6758.03	537.11	6757.76
538.12	6757.69	538.72	6757.63	539.13	6757.63	539.3	6757.58	540.72	6757.56
541.16	6757.5	541.72	6757.55	541.72	6757.49	542.72	6757.24	543.19	6757.06
543.25	6757.07	543.72	6756.89	545.22	6756.39	546.23	6756.06	547.2	6755.73
548.18	6755.41	548.26	6755.48	548.72	6755.33	549.17	6755.32	549.27	6755.29
550.16	6755.29	550.29	6755.34	550.72	6755.34	551.14	6755.37	551.3	6755.35
551.72	6755.38	552.72	6755.34	556.08	6755.24	556.72	6755.2	557.39	6755.1
559.72	6754.79	560.43	6754.74	561.72	6754.61	562.72	6754.52	564.72	6754.28
565.33	6754.22	565.94	6754.17	566.93	6754.12	567.91	6754.06	568.72	6753.98
570.87	6753.67	571.58	6753.65	573.61	6753.41	573.83	6753.39	575.81	6753.15
576.65	6753.06	577.84	6752.92	578.77	6752.84	582.74	6753.42	583.75	6753.49
584.77	6753.85	586.66	6754.53	587.64	6754.82	587.81	6754.88	588.82	6755.16
589.62	6755.35	589.84	6755.46	590.33	6755.76	590.6	6755.92	590.73	6756.02
591.86	6756.96	592.73	6757.67	592.88	6757.92	593.56	6759.3	593.73	6759.56
596.93	6759.4	597.51	6759.38	598.73	6759.32	600.99	6759.52	603.43	6759.75
604.03	6759.78	604.47	6759.78	605.05	6759.79	606.06	6759.79	607.37	6759.81
608.36	6759.81	613.28	6759.96	614.18	6759.98	614.27	6759.95	614.73	6759.96
616.73	6759.88	617.23	6759.87	618.73	6759.81	619.2	6759.92	619.26	6759.91
620.28	6760.15	621.73	6760.48	622.73	6760.7	623.73	6760.93	624.34	6761.02
625.11	6761.11	626.09	6761.24	627.08	6761.36	627.73	6761.45	629.41	6761.65
631.44	6761.91	632.46	6762.05	633.73	6762.21	633.98	6762.27	634.49	6762.28
636.93	6762.81	637.53	6762.95	638.73	6763.21	639.57	6763.33	639.89	6763.36
641.86	6763.58	642.61	6763.67	643.63	6763.78	644.64	6763.85	644.73	6763.84
645.8	6763.83	648.7	6763.77	649.72	6763.76	653.78	6763.76	654.67	6763.73
655.66	6763.68	656.36	6763.65	658.74	6763.55	660.19	6763.48	661.22	6763.44
662.4	6763.38	663.06	6763.36	663.98	6763.31	666.83	6763.19	671.26	6762.99
672.25	6762.94	673.81	6762.85	674.58	6762.85	675.92	6762.82	676.84	6762.82
677.9	6762.74	678.68	6762.69	679.6	6762.61	680.84	6762.52	682.85	6762.36
684.19	6762.26	685.11	6762.16	685.74	6762.11				

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
37.24	.05	545.22	.04
		590.33	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	545.22	590.33		146.75	146.75	146.75		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3742

INPUT
 Description: Bridge Cross Section 1
 Station Elevation Data num= 491

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
374.28	6760.57	375.39	6760.6	376.2	6760.61	377.19	6760.64	380.63	6760.71
381.16	6760.73	385.12	6760.81	385.67	6760.83	387.39	6760.86	388.39	6760.89
388.7	6760.89	389.71	6760.92	390.08	6760.92	391.07	6760.95	391.39	6760.95
392.39	6760.98	392.73	6760.98	393.74	6761.01	394.05	6761.01	395.04	6761.04
395.39	6761.04	396.39	6761.07	396.77	6761.07	397.78	6761.1	399	6761.12
400.39	6761.16	400.99	6761.17	404.84	6761.25	404.95	6761.26	408.87	6761.34
408.92	6761.35	412.91	6761.43	413.4	6761.45	416.85	6761.52	416.94	6761.53
419.83	6761.59	419.97	6761.6	421.81	6761.64	421.98	6761.65	424	6761.69
425.77	6761.74	426.02	6761.74	427.76	6761.79	428.04	6761.79	429.74	6761.84
430.05	6761.84	431.4	6761.88	431.72	6761.88	433.4	6761.93	433.71	6761.93
435.1	6761.97	435.4	6761.97	436.68	6762.01	437.4	6762.02	438.66	6762.06
439.4	6762.07	441.15	6762.12	442.63	6762.15	443.17	6762.17	444.61	6762.2
445.6	6762.23	447.2	6762.26	448.58	6762.3	449.22	6762.31	450.56	6762.35
452.25	6762.38	456.51	6762.38	457.5	6762.37	461.32	6762.29	463.4	6762.25
463.45	6762.24	479.32	6761.92	479.48	6761.91	485.26	6761.8	488.24	6761.74
488.4	6761.73	491.59	6761.67	492.59	6761.66	500.66	6761.5	501.13	6761.5
505.4	6761.41	506.4	6761.4	508.07	6761.36	509.06	6761.35	510.75	6761.31
511.76	6761.3	513.4	6761.26	514.4	6761.25	515.01	6761.23	516	6761.22
521.4	6761.11	522.4	6761.1	529.92	6760.95	530.4	6760.95	536.82	6760.82
538.4	6760.8	540	6760.76	541.01	6760.75	543.76	6760.69	544.75	6760.68
545.4	6760.66	546.4	6760.65	548.08	6760.61	548.71	6760.61	550.11	6760.59
551.12	6760.59	551.4	6760.58	552.4	6760.58	552.66	6760.57	553.65	6760.57
554.16	6760.56	555.17	6760.56	555.4	6760.55	556.61	6760.55	558.22	6760.53
559.4	6760.53	559.57	6760.52	560.56	6760.52	561.26	6760.51	562.27	6760.51
562.4	6760.5	563.52	6760.5	565.31	6760.48	566.48	6760.48	569.36	6760.45
570.43	6760.45	572.39	6760.43	573.42	6760.43	576.35	6760.4	577.47	6760.4
579.31	6760.38	580.3	6760.38	580.4	6760.37	581.52	6760.37	583.26	6760.35
584.4	6760.35	584.56	6760.34	585.58	6760.34	586.22	6760.33	587.21	6760.33
587.4	6760.32	588.62	6760.32	590.17	6760.3	591.16	6760.3	591.4	6760.29
592.67	6760.29	593.13	6760.28	594.12	6760.28	595.4	6760.26	600.78	6760.05
601.79	6760	602.02	6760	603.82	6759.92	605.41	6759.87	605.96	6759.86
609.41	6759.86	609.9	6759.87	611.41	6759.87	612.41	6759.81	613.86	6759.68
613.95	6759.68	615.41	6759.55	615.84	6759.52	616.82	6759.43	618.41	6759.3
618.8	6759.28	619.02	6759.24	619.78	6759.22	620.03	6759.2	621.05	6759.18
622.06	6759.15	622.41	6759.15	623.73	6759.11	624.41	6759.06	629.41	6758.71
629.66	6758.7	635.58	6758.28	636.41	6758.23	636.56	6758.2	637.26	6758.16
638.41	6757.99	638.54	6758.01	639.41	6758.07	642.33	6758.7	645.37	6759.36
645.45	6759.37	647.42	6759.81	648.41	6759.98	649.4	6760.04	660.26	6760.26
661.58	6760.26	667.66	6760.14	671.41	6760.06	671.72	6760.06	674.41	6759.98
674.76	6759.89	675.41	6759.76	677.8	6758.54	678.41	6758.22	680.41	6757.2
680.84	6757.07	680.99	6756.93	681.41	6756.8	682.86	6756.41	683.41	6756.28
683.88	6756.2	683.95	6756.27	684.41	6756.2	684.89	6756.2	684.93	6756.25
685.41	6756.25	685.92	6756.41	688.41	6757.21	688.88	6757.33	688.94	6757.38
689.41	6757.5	690.41	6757.93	690.86	6757.89	690.97	6757.83	691.41	6757.79
693.41	6757.37	693.82	6757.21	694.01	6757.24	694.41	6757.09	694.8	6756.91
695.03	6756.92	695.41	6756.74	695.79	6756.59	696.04	6756.54	696.41	6756.39
697.41	6756.07	698.07	6755.87	699.41	6755.44	699.74	6755.35	700.41	6755.13
700.73	6755.05	701.41	6754.84	702.7	6754.84	703.69	6754.86	704.41	6754.86
704.68	6754.9	705.16	6754.86	705.66	6754.93	706.17	6754.9	706.41	6754.93
707.64	6754.66	708.41	6754.48	708.62	6754.45	709.21	6754.3	709.41	6754.27
710.23	6754.4	710.41	6754.44	711.41	6754.94	715.53	6755.23	716.42	6755.29
718.5	6755.73	719.48	6755.95	720.36	6756.13	721.37	6756.35	721.46	6756.36
722.44	6756.32	723.4	6756.27	724.56	6756.22	727.45	6756.11	730.49	6756.02
731.33	6755.99	735.28	6755.95	736.42	6755.95	736.58	6755.91	737.25	6756.03
737.59	6755.99	738.24	6756.08	738.6	6756.09	739.62	6756.2	740.42	6756.27
741.42	6756.37	743.17	6756.67	744.16	6756.83	744.68	6756.93	745.15	6757
745.42	6757.06	745.7	6757.22	746.13	6757.18	746.42	6757.35	746.71	6757.3
747.12	6757.27	747.72	6757.18	748.11	6757.14	751.42	6756.74	752.06	6756.73
753.42	6756.73	753.8	6756.73	755.42	6756.72	755.83	6756.7	756.84	6756.69
756.99	6756.66	757.86	6756.63	760.42	6756.47	760.9	6756.45	761.91	6756.36
761.93	6756.43	762.42	6756.38	763.42	6756.42	763.94	6756.43	766.42	6756.53
766.86	6756.51	766.98	6756.64	768.42	6756.6	769.42	6756.56	771.42	6756.5
771.8	6756.52	772.04	6756.17	772.79	6756.2	773.06	6755.97	773.77	6755.99
774.07	6756.17	774.76	6756.2	775.08	6756.42	775.75	6756.45	776.1	6756.68
776.74	6756.7	777.11	6756.73	778.12	6756.72	779.14	6756.72	779.42	6756.71
780.68	6756.71	781.42	6756.7	783.64	6756.61	784.21	6756.6	785.42	6756.55
786.61	6756.51	787.25	6756.52	788.58	6756.48	789.27	6756.47	792.31	6756.38
793.33	6756.3	796.48	6756.08	797.46	6756.07	799.44	6756.13	800.42	6756.17
801.41	6756.2	802.45	6756.18	803.39	6756.13	804.37	6756.09	806.5	6755.99
807.51	6755.97	808.32	6756.04	809.42	6756.11	810.55	6756.2	811.42	6756.26

812.58	6756.43	813.26	6756.43	813.59	6756.46	814.25	6756.49	816.22	6756.55
816.63	6756.57	817.65	6756.59	818.19	6756.75	818.42	6756.75	821.42	6757.37
822.71	6757.42	823.13	6757.54	823.42	6757.55	825.43	6757.93	826.43	6758.13
826.77	6758.16	827.78	6758.28	831.43	6758.57	832.85	6758.93	833	6758.85
833.43	6758.96	836.43	6759.11	838.43	6759.07	839.94	6759.02	840.96	6759
841.88	6758.96	842.87	6758.93	843.43	6758.9	844.85	6758.85	846.43	6758.83
847.43	6758.65	847.81	6758.62	848.05	6758.54	849.43	6758.43	849.78	6758.26
850.08	6758.26	850.43	6758.1	850.77	6758.03	851.09	6757.75	851.43	6757.68
851.76	6757.35	852.1	6757.26	852.43	6756.94	853.43	6756.17	853.73	6756.02
853.77	6755.99	854.13	6755.72	854.43	6755.57	857.68	6755.08	859.43	6754.83
860.43	6754.67	861.22	6754.49	862.24	6754.3	862.43	6754.28	863.43	6754.3
863.6	6754.24	864.26	6754.07	864.59	6753.97	866.26	6753.41	866.56	6753.34
867.3	6753.2	869.33	6753.02	870.34	6752.95	870.51	6752.95	873.39	6753.01
873.47	6753.02	875.45	6753.06	877.44	6753.16	878.41	6753.29	878.77	6753.33
879.47	6753.41	880.48	6753.56	882.36	6753.85	883.34	6754.01	883.52	6754.03
884.43	6754.05	889.6	6754.05	890.43	6754.04	890.61	6754.09	891.24	6754.38
891.63	6754.52	892.23	6754.66	892.43	6754.74	893.43	6754.92	895.19	6755.22
897.43	6755.62	897.71	6755.68	898.15	6755.74	898.43	6755.81	898.72	6755.84
899.43	6755.95	900.12	6755.95	900.43	6755.93	900.75	6755.96	901.11	6755.85
901.43	6755.88	901.76	6755.82	902.1	6756.04	902.43	6755.98	902.77	6755.96
903.09	6755.74	904.63	6755.67	905.43	6755.64	907.11	6755.56	908.43	6755.51
908.73	6755.51	909.14	6755.6	909.43	6755.6	909.71	6755.65	910.16	6755.62
910.43	6755.67	912.43	6755.72	913.21	6755.75	914.23	6755.77	916.6	6755.84
917.28	6756	917.58	6756.04	918.3	6756.33	918.57	6756.41	919.55	6756.66
920.54	6756.82	921.35	6756.85	922.5	6756.97	923.38	6757.13	926.43	6757.46
927.42	6757.63	928.41	6757.81	929.48	6758.16	931.44	6758.78	933.32	6759.01
934.57	6759.15	935.29	6759.35	935.59	6759.4	936.44	6759.62	937.62	6759.64
938.57	6759.67	939.53	6759.69	940.39	6759.76	941.41	6759.83	942.4	6759.87
942.95	6759.87								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
374.28	.05	853.77	.04	878.77	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	853.77	878.77		54.92 54.92	54.92	.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3640

INPUT

Description:

Station Elevation Data				num= 489				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
-576.77	6761.76	-574.39	6761.8	-572.92	6761.81	-564.36	6761.81	
-563.06	6761.79	-562.35	6761.77	-561.76	6761.77	-559.35	6761.74	
-555.43	6761.88	-554.35	6761.93	-553.26	6761.93	-550.6	6761.96	
-547.81	6761.94	-545.3	6761.91	-544.3	6761.89	-543.46	6761.93	
-539.44	6762.09	-537.58	6762.16	-536.27	6762.2	-534.27	6762.28	
-532	6762.33	-530.14	6762.37	-529.27	6762.35	-528.21	6762.39	
-525.49	6762.5	-523.86	6762.59	-522.7	6762.68	-520.59	6762.82	
-517.87	6762.92	-516.24	6762.93	-514.06	6762.93	-512.97	6762.97	
-510.19	6763.04	-509.19	6763.07	-506.89	6763	-506.18	6763	
-503.17	6763.01	-500.99	6763.01	-500.38	6763	-499.16	6763	
-497.73	6762.99	-497.59	6762.98	-495.55	6762.98	-495.14	6762.99	
-490.4	6763.02	-489.13	6763.03	-485.75	6763.1	-484.66	6763.13	
-481.1	6763.12	-477.65	6763.12	-477.13	6763.11	-474.86	6763.11	
-472.48	6763.1	-472.07	6763.09	-469.69	6763.09	-469.42	6763.08	
-466.9	6763.07	-465.04	6763.07	-464.11	6763.09	-460.39	6763.09	
-458.53	6763.1	-456.02	6763.15	-454.18	6763.17	-452	6763.17	
-449.23	6763.11	-444.58	6763.01	-442.98	6762.99	-441.98	6762.97	
-439	6762.98	-435.67	6762.98	-435.28	6762.99	-433.96	6762.99	
-432.4	6763	-431.95	6763.01	-430.22	6763.01	-429.94	6763.02	
-428.05	6763.03	-426.65	6763.03	-425.98	6763.04	-424.78	6763.04	
-422.92	6763.05	-422.6	6763.06	-421.33	6763.06	-420.92	6763.07	
-417.16	6763.06	-416.07	6763.06	-415.9	6763.05	-414.82	6763.05	
-410.63	6763.02	-410.17	6763.01	-404.87	6763.01	-403.86	6763.02	
-401.8	6762.97	-399.95	6762.92	-398.85	6762.85	-398.65	6762.82	

-395.3	6762.4	-394.3	6762.25	-393.83	6762.19	-390.65	6762.12	-388.85	6762.16
-388.4	6762.15	-386	6762.05	-383.21	6761.89	-381.79	6761.8	-380.42	6761.73
-379.49	6761.67	-378.56	6761.63	-376.7	6761.62	-374.84	6761.55	-373.77	6761.52
-371.76	6761.4	-371.12	6761.38	-369.76	6761.31	-368.75	6761.27	-367.4	6761.2
-365.99	6761.14	-363.81	6761.06	-362.9	6761.04	-358.72	6761.04	-358.1	6761.03
-356.24	6760.94	-353.45	6760.79	-351.59	6760.71	-348.8	6760.57	-345.08	6760.54
-343.68	6760.52	-343.22	6760.47	-343.12	6760.49	-342.29	6760.4	-342.04	6760.39
-340.67	6760.24	-339.86	6760.25	-339.5	6760.27	-337.4	6760.3	-335.78	6760.34
-333.33	6760.39	-331.64	6760.43	-328.34	6760.5	-326.79	6760.54	-326.48	6760.54
-324.65	6760.58	-323.69	6760.59	-321.83	6760.58	-317.6	6760.53	-316.99	6760.53
-315.91	6760.51	-315.32	6760.51	-311.9	6760.47	-309.57	6760.45	-308.57	6760.43
-307.2	6760.39	-306.95	6760.35	-306.56	6760.34	-305.56	6760.23	-305.09	6760.26
-305.02	6760.16	-304.56	6760.19	-303.55	6760.23	-302.3	6760.59	-300.66	6761.01
-298.58	6761.56	-298.49	6761.59	-297.65	6761.68	-296.72	6762.01	-293.52	6763.11
-293.04	6763.1	-293	6763.02	-291.52	6762.99	-290.51	6762.98	-289.28	6762.95
-288.51	6762.94	-286.51	6762.21	-286.4	6762.16	-283.49	6761.11	-282.77	6761
-279.05	6760.4	-278.89	6760.26	-278.48	6760.19	-277.19	6760.26	-276.47	6760.31
-275.62	6760.35	-274.53	6760.42	-272.54	6760.4	-271.27	6760.4	-269.75	6760.39
-269.45	6760.38	-268.45	6760.38	-266.44	6760.43	-264.43	6760.49	-263.43	6760.5
-262.32	6760.54	-260.46	6760.59	-259.53	6760.6	-257.67	6760.64	-255.41	6760.71
-253.95	6760.74	-253.4	6760.76	-251.16	6760.73	-250.58	6760.75	-249.39	6760.76
-248.15	6760.79	-245.37	6760.79	-245.14	6760.8	-241.86	6760.8	-240.36	6760.82
-239.36	6760.82	-239.07	6760.83	-237.21	6760.84	-234.42	6760.9	-233.49	6760.93
-231.63	6760.96	-229.9	6761.01	-228.81	6761.03	-226.32	6761.1	-225.31	6761.14
-224.45	6761.16	-223.36	6761.2	-222.65	6761.19	-222.27	6761.17	-220.1	6761.11
-218.29	6761.05	-216.83	6760.97	-216.28	6760.95	-213.96	6760.82	-213.56	6760.79
-212.48	6760.75	-211.17	6760.69	-209.31	6760.62	-208.12	6760.55	-207.45	6760.53
-204.25	6760.39	-201.87	6760.24	-200.24	6760.12	-200.01	6760.11	-198.15	6759.93
-197.23	6759.78	-196.14	6759.63	-195.22	6759.55	-193.21	6759.55	-191.79	6759.43
-191.21	6759.37	-190.7	6759.34	-188.85	6759.2	-187.92	6759.14	-186.06	6759
-185.26	6758.93	-183.27	6758.78	-182.18	6758.67	-181.99	6758.68	-181.41	6758.6
-180.48	6758.61	-178.17	6758.65	-176.76	6758.62	-174.9	6758.68	-173.28	6758.72
-172.11	6758.78	-171.1	6758.85	-168.14	6759.02	-167.84	6759.02	-167.46	6759.06
-166.75	6759.03	-165.6	6759	-164.57	6758.96	-162.81	6758.91	-162.39	6758.95
-162.12	6758.94	-160.95	6759	-159.13	6759.08	-158.16	6759.13	-155.37	6759.2
-154.09	6759.24	-153.68	6759.19	-153.51	6759.26	-153.09	6759.2	-152.59	6759.07
-152.58	6759.2	-152.09	6759.06	-151.65	6759.05	-151.51	6758.92	-150.72	6758.88
-150.42	6758.8	-149.33	6758.73	-148.86	6758.71	-148.24	6759.11	-146.06	6759.03
-144.97	6758.98	-142.8	6758.9	-141.42	6758.88	-139.56	6758.84	-138.04	6758.87
-136.77	6758.8	-134.91	6758.71	-133	6758.56	-131.91	6758.45	-130.82	6758.33
-130.26	6758.28	-129.73	6758.2	-128.01	6757.97	-127.01	6757.77	-126.55	6757.71
-126.46	6757.67	-125	6757.48	-124.69	6757.47	-124.29	6757.6	-124	6757.59
-123	6757.81	-121.9	6757.81	-120.97	6757.82	-117.98	6757.47	-116.98	6757.43
-116.67	6757.39	-116.32	6757.39	-114.49	6757.2	-114.46	6757.19	-112.97	6757.03
-111.67	6756.98	-107.96	6757.02	-106.09	6757.1	-103.6	6757.19	-103.3	6757.11
-102.51	6757.15	-102.37	6757.14	-101.44	6757.19	-99.93	6757.26	-98.92	6757.3
-97.92	6757.35	-97.72	6757.32	-97.07	6757.29	-96.79	6757.26	-95.98	6757.21
-94.89	6757.13	-93.91	6757.04	-93.8	6757.05	-93.07	6756.96	-92.9	6756.99
-90.54	6756.71	-88.42	6756.47	-86.56	6756.34	-85.09	6756.23	-83.77	6756.14
-82.84	6756.12	-80.98	6756.4	-79.86	6756.56	-79.65	6756.55	-79.12	6756.67
-78.19	6756.59	-77.86	6756.55	-77.26	6756.61	-76.38	6756.68	-75.8	6756.7
-74.84	6756.69	-74.12	6756.94	-73.38	6756.95	-73.26	6757	-72.68	6756.83
-72.16	6757.31	-71.96	6757.53	-71.66	6757.37	-71.23	6757.28	-70.95	6757.14
-69.8	6756.71	-69.41	6756.64	-64.89	6755.93	-64.05	6755.68	-61.89	6754.96
-61.05	6754.71	-59.28	6754.2	-58.83	6754.08	-57.85	6753.79	-57.51	6753.7
-56.13	6753.3	-55.42	6753.17	-53.26	6753.14	-52.2	6753.14	-51.1	6753.13
-50.34	6753.11	-48.22	6752.91	-47.5	6752.89	-45.13	6752.95	-43.91	6752.99
-43.07	6753.03	-41.75	6753.14	-40.31	6753.25	-39.82	6753.28	-38.87	6753.36
-37.43	6753.47	-36.28	6753.55	-32.16	6753.87	-31.68	6753.92	-29.73	6754.25
-28.08	6754.56	-26.1	6754.94	-25.67	6755.01	-23.9	6755.23	-22.46	6755.4
-21.61	6755.53	-19.33	6755.96	-18.73	6756.08	-17.29	6756.22	-14.41	6756.48
-13.98	6756.53	-12.98	6756.61	-11.55	6756.73	-10.82	6756.73	-8.66	6756.56
-7.94	6756.68	-6.5	6757.04	-5.78	6757.28	-5.49	6757.42	-4.28	6757.96
-3.93	6758.01	-3.62	6758.2	-2.19	6758.16	-1.69	6758.18	-1.31	6758.22
-.74	6758.31	.12	6758.41	1.09	6758.45	1.42	6758.42	1.92	6758.47
5.03	6759.12	5.75	6759.28	9.16	6759.82	10.96	6760.1	12.77	6760.07
15.49	6760.04	16.39	6760.06	17.89	6760.08	18.74	6760.08	20	6760.06
22.34	6759.82	23.89	6759.55	24.23	6759.5	26.13	6759.3	27.6	6759.05
30.39	6758.56	31.45	6758.38	32.55	6758.28	32.98	6758.23	34.52	6758.08
35.13	6758.06	37.6	6758.05	39.14	6758	40.09	6757.96	41.44	6757.96
42.98	6758.02	44.12	6758.05	45.29	6758.1	45.48	6758.15	48.36	6758.69

49.13	6758.83	49.52	6758.98	49.9	6759.07	50.86	6759.38	51.44	6759.49
53.75	6759.96	54.91	6760.22	56.25	6760.51	56.71	6760.54	56.82	6760.59
58.25	6760.66	60.67	6760.63	61.64	6760.67	63.47	6760.67		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-576.77	.05	-71.23	.04	-12.98	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	-71.23	-12.98		54.86	54.86		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-1	19.14	6760	F
146.36	204.71	6760.27	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3639

INPUT

Description:

Station	Elevation	Data	num=	488					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-39.32	6761.45	-39.13	6761.44	-38.43	6761.46	-33.75	6761.46	-33.04	6761.45
-31.76	6761.4	-29.25	6761.31	-27.89	6761.25	-27.04	6761.24	-25.69	6761.24
-23.77	6761.31	-21.86	6761.36	-18.4	6761.36	-17.63	6761.37	-17.46	6761.36
-15.89	6761.34	-15.06	6761.32	-13.6	6761.3	-13.47	6761.29	-12.25	6761.28
-10.91	6761.31	-8.22	6761.41	-7.29	6761.44	-5.04	6761.4	-4.23	6761.41
-3.17	6761.41	-2.84	6761.42	-1.51	6761.42	-.16	6761.41	1.98	6761.41
2.47	6761.42	2.53	6761.4	3.87	6761.42	4.59	6761.42	5.22	6761.44
6.1	6761.45	7.49	6761.48	7.91	6761.47	10.22	6761.47	10.59	6761.48
11.66	6761.48	12.28	6761.5	13.28	6761.55	14.63	6761.56	15.83	6761.58
18.34	6761.55	20.52	6761.55	23.34	6761.52	24.03	6761.53	25.02	6761.56
25.38	6761.56	28.76	6761.64	32.53	6761.64	33.91	6761.67	35.87	6761.62
37	6761.6	37.54	6761.6	39.06	6761.58	40.88	6761.65	42.85	6761.68
44.19	6761.71	45.54	6761.71	46.72	6761.72	49.36	6761.75	50.39	6761.72
51.42	6761.7	53.4	6761.65	54.51	6761.65	55.91	6761.69	56.74	6761.73
57.63	6761.75	58.41	6761.78	60.08	6761.82	61.89	6761.82	63.42	6761.8
64.25	6761.78	64.81	6761.78	65.7	6761.74	67.9	6761.67	69.96	6761.59
71.07	6761.56	71.77	6761.55	74.27	6761.49	75.1	6761.51	76.14	6761.56
76.78	6761.6	78.2	6761.67	78.45	6761.69	79.13	6761.66	80.95	6761.62
81.82	6761.62	82.63	6761.61	84.51	6761.56	85.4	6761.53	86.8	6761.51
87.2	6761.52	88.34	6761.52	88.47	6761.53	89.53	6761.53	89.89	6761.54
90.97	6761.54	92.57	6761.56	92.74	6761.57	94.31	6761.59	95.7	6761.59
98.79	6761.67	99.29	6761.66	99.32	6761.68	101.56	6761.65	103.33	6761.65
103.95	6761.66	105.97	6761.71	107.04	6761.71	107.36	6761.73	107.67	6761.71
110.38	6761.9	111.16	6761.96	111.84	6761.97	114.79	6761.97	116.3	6761.94
117.34	6761.84	120.2	6761.58	121.46	6761.42	123.61	6761.25	124.37	6761.18
125.57	6761.25	126.6	6761.3	126.87	6761.29	128.54	6761.26	128.86	6761.26
130.2	6761.23	130.21	6761.28	130.73	6761.26	131.88	6761.31	132.89	6761.29
134.24	6761.32	135.87	6761.37	136.05	6761.37	138.27	6761.42	139.99	6761.47
140.23	6761.47	142.06	6761.53	143.08	6761.44	143.64	6761.38	144.99	6761.26
145.24	6761.23	149.41	6761.23	152.35	6761.02	152.75	6761.01	153.59	6761.01
155.26	6760.99	157.76	6760.97	158.43	6760.95	159.77	6760.93	161.63	6760.89
161.94	6760.89	166.5	6760.78	167.84	6760.73	168.84	6760.76	169.19	6760.76
170.28	6760.79	170.53	6760.77	171.12	6760.77	172.1	6760.74	172.79	6760.73
174.46	6760.65	174.56	6760.68	175.02	6760.66	177.8	6760.7	178.64	6760.7
180.3	6760.65	180.91	6760.64	182.81	6760.58	183.64	6760.58	186.15	6760.55
187.37	6760.53	188	6760.5	190.69	6760.42	191.15	6760.4	192.53	6760.38
194.49	6760.33	196.07	6760.28	197	6760.27	197.41	6760.24	198.54	6760.24
198.67	6760.25	199.51	6760.15	201.44	6760.01	202.01	6759.96	202.95	6759.9
203.85	6759.83	204.88	6759.81	205.35	6759.79	206.19	6759.78	207.85	6759.74
209	6759.7	211.19	6759.91	214.15	6760.21	215.37	6760.38	216.18	6760.48
217.57	6760.7	218.27	6760.82	219.3	6760.98	220.58	6761.5	222.39	6762.14
222.95	6762.33	224.45	6762.87	224.55	6762.88	225.38	6763.15	227.54	6763.77
228.72	6764.12	229.61	6764.24	230.4	6763.99	232.06	6763.45	232.9	6763.19
234.75	6763.02	235.4	6762.86	235.78	6762.78	237.08	6762.47	237.73	6762.24
237.91	6762.19	238.74	6761.91	239.07	6761.81	239.9	6761.53	240.42	6761.38
241.25	6761.12	241.76	6761.01	242.08	6760.92	242.92	6760.73	245.05	6760.22

246.26	6760.16	247.03	6760.11	248.14	6760.06	248.76	6760.02	249.6	6759.98
250.2	6759.93	252.94	6759.96	254.32	6759.99	255.35	6760.03	255.84	6760.03
256.54	6760.05	257.95	6760.07	260.46	6760.19	261.92	6760.18	262.12	6760.17
263.79	6760.17	264.61	6760.16	265.95	6760.17	266.29	6760.15	267.3	6760.14
268.8	6760.14	269.07	6760.13	269.77	6760.14	270.8	6760.13	272.14	6760.17
273.81	6760.21	274.65	6760.24	275.48	6760.21	276.7	6760.19	277.89	6760.16
279.39	6760.14	280.49	6760.14	281.1	6760.13	283.16	6760.02	283.42	6760.02
285.5	6759.97	286.11	6759.95	287.17	6759.98	288.01	6759.97	289.34	6759.97
289.67	6759.96	291.11	6759.96	293.84	6759.88	294.69	6759.85	296.35	6759.81
299.69	6759.76	300.52	6759.72	301.7	6759.68	302.24	6759.68	303.75	6759.71
308.04	6759.71	309.94	6759.66	312.22	6759.61	313.88	6759.61	314.05	6759.6
316.39	6759.6	317.02	6759.59	319.21	6759.47	319.73	6759.45	320.56	6759.4
321.05	6759.4	321.97	6759.37	325.58	6759.37	327.24	6759.39	328.07	6759.38
328.92	6759.38	329.51	6759.37	331.41	6759.31	331.56	6759.31	333.09	6759.25
333.15	6759.27	333.63	6759.25	334.49	6759.26	337.26	6759.26	339.87	6759.22
341.43	6759.2	343.11	6759.16	343.9	6759.18	344.95	6759.19	345.61	6759.21
348.11	6759.34	349.27	6759.28	351.13	6759.21	351.96	6759.19	353.13	6759.15
353.96	6759.16	354.79	6759.19	355.99	6759.22	357.34	6759.27	358.68	6759.31
360.41	6759.34	361.64	6759.35	362.46	6759.37	363.5	6759.42	364.81	6759.42
365.4	6759.43	366.49	6759.43	368.64	6759.33	369.43	6759.35	370.66	6759.4
371.49	6759.4	372.76	6759.42	373.8	6759.42	374.81	6759.44	375.85	6759.42
377.5	6759.4	378.84	6759.37	380.19	6759.39	382.03	6759.43	383.18	6759.45
384.1	6759.42	385.56	6759.34	387.36	6759.23	388.21	6759.23	389.24	6759.21
390.27	6759.24	390.7	6759.24	391.3	6759.26	392.28	6759.25	393.36	6759.25
393.62	6759.24	395.7	6759.24	396.53	6759.25	398.21	6759.29	399.87	6759.31
401.69	6759.22	404.38	6759.1	404.89	6759.09	406.55	6759.12	407.06	6759.12
408.23	6759.14	409.75	6759.15	411.57	6759.11	412.4	6759.1	413.78	6759.11
414.91	6759.13	416.02	6759.13	417.41	6759.1	417.82	6759.08	418.95	6759.05
420.14	6759.01	421.59	6759.01	421.85	6759.02	424.26	6759.02	425.76	6759.04
427.76	6759.11	428.27	6759.12	429.41	6759.16	430.76	6759.18	432.6	6759.14
434.95	6759.11	435.78	6759.11	436.58	6759.13	437.44	6759.14	437.97	6759.17
438.68	6759.19	440.66	6759.28	441.63	6759.31	442.01	6759.31	444.12	6759.36
445.8	6759.39	446.92	6759.4	448.3	6759.4	448.73	6759.41	450.07	6759.41
451.04	6759.42	451.64	6759.38	453.1	6759.32	454.97	6759.34	455.82	6759.39
456.65	6759.41	458.13	6759.43	461.34	6759.43	461.65	6759.42	462.5	6759.42
463.33	6759.47	463.51	6759.47	464.16	6759.52	464.99	6759.48	465.84	6759.42
466.2	6759.51	466.67	6759.5	468.54	6759.89	470.01	6760.22	470.23	6760.14
470.61	6760.21	470.84	6760.2	471.57	6760.01	471.63	6760.01	472.52	6759.8
472.67	6759.84	472.92	6759.97	473.35	6760.25	473.7	6760.43	474.18	6760.56
474.26	6760.53	474.73	6760.64	475.01	6760.68	475.6	6760.59	475.86	6760.6
476.69	6760.48	477.82	6760.3	478.84	6760.15	479.64	6760.02	480.91	6759.83
480.98	6759.83	481.69	6759.7	481.93	6759.7	483.37	6759.53	483.67	6759.55
484.2	6759.5	485.03	6759.48	486.36	6759.48	486.71	6759.45	487.09	6759.46
488.12	6759.43	488.37	6759.45	489.04	6759.4	489.47	6759.39	491.71	6759.05
491.73	6759.13	492.23	6759.07	492.54	6759.05	493.08	6758.91	495.32	6758.72
495.76	6758.72	495.88	6758.67	496.73	6758.72	497.11	6758.79	497.56	6758.83
499.8	6758.9	502.48	6759.01	503.41	6758.99	503.83	6758.97	505.9	6758.92
506.51	6758.97	506.75	6758.97	507.86	6759.08	508.41	6759.17	509.24	6759.29
510.09	6759.43	511.75	6759.67	511.89	6759.67	512.58	6759.77	512.83	6759.74
514.26	6759.45	515.09	6759.29	515.26	6757.09	516.77	6756.73	530.26	6753.57
548.26	6752.65	548.45	6752.66	570.26	6753.58	609.26	6760.41	610.77	6760.39
611.05	6760.39	623.26	6760.29	673.26	6760.1				

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
-39.32	.05	516.77	.04	610.77	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	516.77	610.77		30.52	30.51		.3	.5

BRIDGE

RIVER: Walton Creek
 REACH: lower-main split RS: 3622

INPUT

Description:
 Distance from Upstream XS = 12
 Deck/Roadway Width = 10
 Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 8														
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
487.24	6759.5				504.24	6760.41				513.24	6761.16	6759.33		
536.24	6762.82	6761.01			560.24	6763.55	6761.55			583.24	6762.88	6760.93		
607.24	6761.18	6759.3			625.24	6760.29								

Upstream Bridge Cross Section Data

Station Elevation Data num= 488															
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-39.32	6761.45	-39.13	6761.44	-38.43	6761.46	-33.75	6761.46	-33.04	6761.45						
-31.76	6761.4	-29.25	6761.31	-27.89	6761.25	-27.04	6761.24	-25.69	6761.24						
-23.77	6761.31	-21.86	6761.36	-18.4	6761.36	-17.63	6761.37	-17.46	6761.36						
-15.89	6761.34	-15.06	6761.32	-13.6	6761.3	-13.47	6761.29	-12.25	6761.28						
-10.91	6761.31	-8.22	6761.41	-7.29	6761.44	-5.04	6761.4	-4.23	6761.41						
-3.17	6761.41	-2.84	6761.42	-1.51	6761.42	-1.16	6761.41	1.98	6761.41						
2.47	6761.42	2.53	6761.4	3.87	6761.42	4.59	6761.42	5.22	6761.44						
6.1	6761.45	7.49	6761.48	7.91	6761.47	10.22	6761.47	10.59	6761.48						
11.66	6761.48	12.28	6761.5	13.28	6761.55	14.63	6761.56	15.83	6761.58						
18.34	6761.55	20.52	6761.55	23.34	6761.52	24.03	6761.53	25.02	6761.56						
25.38	6761.56	28.76	6761.64	32.53	6761.64	33.91	6761.67	35.87	6761.62						
37	6761.6	37.54	6761.6	39.06	6761.58	40.88	6761.65	42.85	6761.68						
44.19	6761.71	45.54	6761.71	46.72	6761.72	49.36	6761.75	50.39	6761.72						
51.42	6761.7	53.4	6761.65	54.51	6761.65	55.91	6761.69	56.74	6761.73						
57.63	6761.75	58.41	6761.78	60.08	6761.82	61.89	6761.82	63.42	6761.8						
64.25	6761.78	64.81	6761.78	65.7	6761.74	67.9	6761.67	69.96	6761.59						
71.07	6761.56	71.77	6761.55	74.27	6761.49	75.1	6761.51	76.14	6761.56						
76.78	6761.6	78.2	6761.67	78.45	6761.69	79.13	6761.66	80.95	6761.62						
81.82	6761.62	82.63	6761.61	84.51	6761.56	85.4	6761.53	86.8	6761.51						
87.2	6761.52	88.34	6761.52	88.47	6761.53	89.53	6761.53	89.89	6761.54						
90.97	6761.54	92.57	6761.56	92.74	6761.57	94.31	6761.59	95.7	6761.59						
98.79	6761.67	99.29	6761.66	99.32	6761.68	101.56	6761.65	103.33	6761.65						
103.95	6761.66	105.97	6761.71	107.04	6761.71	107.36	6761.73	107.67	6761.71						
110.38	6761.9	111.16	6761.96	111.84	6761.97	114.79	6761.97	116.3	6761.94						
117.34	6761.84	120.2	6761.58	121.46	6761.42	123.61	6761.25	124.37	6761.18						
125.57	6761.25	126.6	6761.3	126.87	6761.29	128.54	6761.26	128.86	6761.26						
130.2	6761.23	130.21	6761.28	130.73	6761.26	131.88	6761.31	132.89	6761.29						
134.24	6761.32	135.87	6761.37	136.05	6761.37	138.27	6761.42	139.99	6761.47						
140.23	6761.47	142.06	6761.53	143.08	6761.44	143.64	6761.38	144.99	6761.26						
145.24	6761.23	149.41	6761.23	152.35	6761.02	152.75	6761.01	153.59	6761.01						
155.26	6760.99	157.76	6760.97	158.43	6760.95	159.77	6760.93	161.63	6760.89						
161.94	6760.89	166.5	6760.78	167.84	6760.73	168.84	6760.76	169.19	6760.76						
170.28	6760.79	170.53	6760.77	171.12	6760.77	172.1	6760.74	172.79	6760.73						
174.46	6760.65	174.56	6760.68	175.02	6760.66	177.8	6760.7	178.64	6760.7						
180.3	6760.65	180.91	6760.64	182.81	6760.58	183.64	6760.58	186.15	6760.55						
187.37	6760.53	188	6760.5	190.69	6760.42	191.15	6760.4	192.53	6760.38						
194.49	6760.33	196.07	6760.28	197	6760.27	197.41	6760.24	198.54	6760.24						
198.67	6760.25	199.51	6760.15	201.44	6760.01	202.01	6759.96	202.95	6759.9						
203.85	6759.83	204.88	6759.81	205.35	6759.79	206.19	6759.78	207.85	6759.74						
209	6759.7	211.19	6759.91	214.15	6760.21	215.37	6760.38	216.18	6760.48						
217.57	6760.7	218.27	6760.82	219.3	6760.98	220.58	6761.5	222.39	6762.14						
222.95	6762.33	224.45	6762.87	224.55	6762.88	225.38	6763.15	227.54	6763.77						
228.72	6764.12	229.61	6764.24	230.4	6763.99	232.06	6763.45	232.9	6763.19						
234.75	6763.02	235.4	6762.86	235.78	6762.78	237.08	6762.47	237.73	6762.24						
237.91	6762.19	238.74	6761.91	239.07	6761.81	239.9	6761.53	240.42	6761.38						
241.25	6761.12	241.76	6761.01	242.08	6760.92	242.92	6760.73	245.05	6760.22						
246.26	6760.16	247.03	6760.11	248.14	6760.06	248.76	6760.02	249.6	6759.98						
250.2	6759.93	252.94	6759.96	254.32	6759.99	255.35	6760.03	255.84	6760.03						
256.54	6760.05	257.95	6760.07	260.46	6760.19	261.92	6760.18	262.12	6760.17						
263.79	6760.17	264.61	6760.16	265.95	6760.17	266.29	6760.15	267.3	6760.14						
268.8	6760.14	269.07	6760.13	269.77	6760.14	270.8	6760.13	272.14	6760.17						
273.81	6760.21	274.65	6760.24	275.48	6760.21	276.7	6760.19	277.89	6760.16						
279.39	6760.14	280.49	6760.14	281.1	6760.13	283.16	6760.02	283.42	6760.02						
285.5	6759.97	286.11	6759.95	287.17	6759.98	288.01	6759.97	289.34	6759.97						
289.67	6759.96	291.11	6759.96	293.84	6759.88	294.69	6759.85	296.35	6759.81						
299.69	6759.76	300.52	6759.72	301.7	6759.68	302.24	6759.68	303.75	6759.71						
308.04	6759.71	309.94	6759.66	312.22	6759.61	313.88	6759.61	314.05	6759.6						
316.39	6759.6	317.02	6759.59	319.21	6759.47	319.73	6759.45	320.56	6759.4						
321.05	6759.4	321.97	6759.37	325.58	6759.37	327.24	6759.39	328.07	6759.38						
328.92	6759.38	329.51	6759.37	331.41	6759.31	331.56	6759.31	333.09	6759.25						
333.15	6759.27	333.63	6759.25	334.49	6759.26	337.26	6759.26	339.87	6759.22						

341.43	6759.2	343.11	6759.16	343.9	6759.18	344.95	6759.19	345.61	6759.21
348.11	6759.34	349.27	6759.28	351.13	6759.21	351.96	6759.19	353.13	6759.15
353.96	6759.16	354.79	6759.19	355.99	6759.22	357.34	6759.27	358.68	6759.31
360.41	6759.34	361.64	6759.35	362.46	6759.37	363.5	6759.42	364.81	6759.42
365.4	6759.43	366.49	6759.43	368.64	6759.33	369.43	6759.35	370.66	6759.4
371.49	6759.4	372.76	6759.42	373.8	6759.42	374.81	6759.44	375.85	6759.42
377.5	6759.4	378.84	6759.37	380.19	6759.39	382.03	6759.43	383.18	6759.45
384.1	6759.42	385.56	6759.34	387.36	6759.23	388.21	6759.23	389.24	6759.21
390.27	6759.24	390.7	6759.24	391.3	6759.26	392.28	6759.25	393.36	6759.25
393.62	6759.24	395.7	6759.24	396.53	6759.25	398.21	6759.29	399.87	6759.31
401.69	6759.22	404.38	6759.1	404.89	6759.09	406.55	6759.12	407.06	6759.12
408.23	6759.14	409.75	6759.15	411.57	6759.11	412.4	6759.1	413.78	6759.11
414.91	6759.13	416.02	6759.13	417.41	6759.1	417.82	6759.08	418.95	6759.05
420.14	6759.01	421.59	6759.01	421.85	6759.02	424.26	6759.02	425.76	6759.04
427.76	6759.11	428.27	6759.12	429.41	6759.16	430.76	6759.18	432.6	6759.14
434.95	6759.11	435.78	6759.11	436.58	6759.13	437.44	6759.14	437.97	6759.17
438.68	6759.19	440.66	6759.28	441.63	6759.31	442.01	6759.31	444.12	6759.36
445.8	6759.39	446.92	6759.4	448.3	6759.4	448.73	6759.41	450.07	6759.41
451.04	6759.42	451.64	6759.38	453.1	6759.32	454.97	6759.34	455.82	6759.39
456.65	6759.41	458.13	6759.43	461.34	6759.43	461.65	6759.42	462.5	6759.42
463.33	6759.47	463.51	6759.47	464.16	6759.52	464.99	6759.48	465.84	6759.42
466.2	6759.51	466.67	6759.5	468.54	6759.89	470.01	6760.22	470.23	6760.14
470.61	6760.21	470.84	6760.2	471.57	6760.01	471.63	6760.01	472.52	6759.8
472.67	6759.84	472.92	6759.97	473.35	6760.25	473.7	6760.43	474.18	6760.56
474.26	6760.53	474.73	6760.64	475.01	6760.68	475.6	6760.59	475.86	6760.6
476.69	6760.48	477.82	6760.3	478.84	6760.15	479.64	6760.02	480.91	6759.83
480.98	6759.83	481.69	6759.7	481.93	6759.7	483.37	6759.53	483.67	6759.55
484.2	6759.5	485.03	6759.48	486.36	6759.48	486.71	6759.45	487.09	6759.46
488.12	6759.43	488.37	6759.45	489.04	6759.4	489.47	6759.39	491.71	6759.05
491.73	6759.13	492.23	6759.07	492.54	6759.05	493.08	6758.91	495.32	6758.72
495.76	6758.72	495.88	6758.67	496.73	6758.72	497.11	6758.79	497.56	6758.83
499.8	6758.9	502.48	6759.01	503.41	6758.99	503.83	6758.97	505.9	6758.92
506.51	6758.97	506.75	6758.97	507.86	6759.08	508.41	6759.17	509.24	6759.29
510.09	6759.43	511.75	6759.67	511.89	6759.67	512.58	6759.77	512.83	6759.74
514.26	6759.45	515.09	6759.29	515.26	6757.09	516.77	6756.73	530.26	6753.57
548.26	6752.65	548.45	6752.66	570.26	6753.58	609.26	6760.41	610.77	6760.39
611.05	6760.39	623.26	6760.29	673.26	6760.1				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-39.32	.05	516.77	.04	610.77	.05

Bank Sta: Left Right Coeff Contr. Expan.

516.77	610.77	.3	.5

Downstream Deck/Roadway Coordinates num= 8

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
561.82	6759.5		578.82	6760.41		587.82	6761.16	6759.33
610.82	6762.82	6761.01	634.82	6763.55	6761.55	657.82	6762.88	6760.93
681.82	6761.18	6759.3	699.82	6760.29				

Downstream Bridge Cross Section Data Station Elevation Data num= 488

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-24.94	6758.55	-23.49	6758.53	-22.35	6758.53	-20.15	6758.51	-19.45	6758.49
-17.24	6758.45	-15.98	6758.45	-14.31	6758.5	-11.81	6758.56	-8.48	6758.56
-7.64	6758.57	-7.34	6758.55	-6.81	6758.55	-3.95	6758.48	-2.93	6758.46
-1.81	6758.46	-1.14	6758.49	1.53	6758.54	2.36	6758.58	4.86	6758.65
6.53	6758.64	8.52	6758.62	10.37	6758.58	10.7	6758.58	12.48	6758.54
13.2	6758.53	14.04	6758.54	14.45	6758.56	17.37	6758.65	18.54	6758.74
20.42	6758.72	21.54	6758.72	22.37	6758.68	23.66	6758.63	25.71	6758.66
26.73	6758.71	27.37	6758.73	28.78	6758.8	29.66	6758.81	30.99	6758.81
32.86	6758.79	34.04	6758.79	34.75	6758.8	36.54	6758.86	37.38	6758.88
38.92	6758.93	39.88	6758.94	41.56	6758.94	42.06	6758.95	43.09	6758.95
43.22	6758.96	44.2	6758.96	44.88	6758.97	46.16	6758.97	48.17	6759.02
49.89	6759.08	51.26	6759.15	54.34	6759.36	54.88	6759.38	56.38	6759.37
57.43	6759.35	58.23	6759.32	59.45	6759.29	60.72	6759.21	61.39	6759.18
63.22	6759.07	63.54	6759.08	65.59	6759.08	65.72	6759.09	67.39	6759.09
68.65	6759.13	69.67	6759.17	70.87	6759.23	73.28	6759.37	74.9	6759.48
75.73	6759.51	77.25	6759.51	77.4	6759.5	79.07	6759.5	79.9	6759.49

84.06	6759.49	85.01	6759.56	86.03	6759.55	87.06	6759.53	88.23	6759.52
89.91	6759.48	92.4	6759.48	93.46	6759.46	95.23	6759.44	96.57	6759.6
97.08	6759.59	97.28	6759.61	99.32	6759.61	100.35	6759.62	100.74	6759.57
101.05	6759.57	102.48	6759.47	104.91	6759.37	105.46	6759.37	106.58	6759.39
108.53	6759.44	108.98	6759.47	109.08	6759.45	110.57	6759.59	112.62	6759.82
112.94	6759.81	113.25	6759.89	114.92	6759.77	115.75	6759.72	116.59	6759.69
116.91	6759.69	117.41	6759.66	119.78	6759.77	120.75	6759.81	121.58	6759.86
123.26	6759.94	123.87	6759.96	125.75	6760.05	126.59	6760.03	128.25	6760.01
129.92	6759.98	131.6	6759.98	132.42	6759.96	134.1	6759.94	136.13	6759.98
137.16	6759.98	137.43	6759.99	138.62	6759.99	139.93	6760	140.22	6760.01
142.02	6760.01	143.13	6759.98	144.93	6759.91	145.77	6759.87	146.6	6759.85
147.3	6759.88	148.63	6759.91	150.77	6759.98	151.27	6759.98	154.94	6760.03
156.69	6760.03	157.88	6760.01	159.11	6760	161.84	6760	163.28	6760.03
164.94	6760.1	165.81	6760.13	166.81	6760.18	168.28	6760.16	169.11	6760.16
171.1	6760.14	173.28	6760.09	173.74	6760.09	175.07	6760.06	177.04	6760.03
178.06	6760.02	179.12	6760.02	180.1	6760.01	182.99	6759.95	183.17	6759.94
186.96	6759.88	188.29	6759.85	190.33	6759.73	190.92	6759.69	192.38	6759.61
196.63	6759.51	197.54	6759.52	198.86	6759.47	200.8	6759.41	203.62	6759.38
204.96	6759.37	206.36	6759.35	207.72	6759.34	208.73	6759.35	212.08	6759.4
212.82	6759.39	213.3	6759.52	213.39	6759.43	214.13	6759.6	214.72	6759.82
214.97	6759.88	215.4	6759.76	215.81	6759.71	216.04	6759.77	216.63	6760.18
216.91	6760.21	217.36	6760.38	217.47	6760.05	217.94	6760.3	218.3	6760.66
218.69	6760.43	218.96	6760.65	219.14	6760.61	220.8	6760.17	221.64	6759.96
222.03	6759.85	223.06	6759.59	224.42	6759.57	225.81	6759.54	226.64	6759.51
227.14	6759.48	228.16	6759.44	229.26	6759.76	230.21	6760.05	232.48	6760.76
233.31	6761.03	234.15	6761.26	235.81	6761.49	237.19	6761.67	238.31	6761.83
238.51	6761.85	240.44	6761.78	241.46	6761.75	242.49	6761.71	243.31	6761.61
244.53	6761.48	244.99	6761.44	246.65	6761.26	247.48	6760.95	248.62	6760.54
250.41	6760.22	250.82	6760.14	251.52	6760.06	253.72	6759.79	254.99	6759.7
256.04	6759.64	257.01	6759.57	259.16	6759.44	259.66	6759.47	259.98	6759.46
260.82	6759.49	262.3	6759.56	262.49	6759.56	264.15	6759.64	264.95	6759.63
265.83	6759.69	266.27	6759.7	267.59	6759.78	268.91	6759.85	270	6759.83
271.55	6759.78	274.11	6759.67	275.52	6759.67	275.83	6759.68	278.33	6759.68
279.48	6759.69	281.34	6759.72	282.5	6759.73	283.38	6759.75	284.78	6759.77
285.43	6759.77	288.34	6759.81	289.18	6759.83	290	6759.83	292.17	6759.8
293.34	6759.79	294.63	6759.79	295.65	6759.82	296.67	6759.84	299.74	6759.84
300.63	6759.9	301.68	6759.94	301.96	6759.94	303.84	6760.01	305.01	6760.04
306.68	6760.02	307.25	6760.02	309.18	6759.99	310.23	6760	313.86	6760.08
314.19	6760.08	315.01	6760.11	316.68	6760.21	317.52	6760.27	319.26	6760.33
320.46	6760.38	321.69	6760.45	321.79	6760.47	322.52	6760.52	325.31	6760.77
326.32	6760.79	328.39	6760.79	329.4	6760.78	332.53	6760.82	333.48	6760.84
333.68	6760.86	334.19	6760.85	335.53	6761	336.7	6761.04	338.6	6761.12
340.86	6761.23	341.84	6761.27	343.37	6761.35	344.19	6761.38	346.36	6761.49
346.9	6761.5	348.22	6761.46	350.87	6761.4	351.88	6761.4	352.18	6761.39
361.09	6761.39	363.37	6761.32	364.21	6761.27	365.41	6761.21	366.2	6761.16
367.22	6761.15	368.94	6761.15	369.21	6761.14	370.88	6761.14	371.32	6761.13
375.41	6760.86	375.98	6760.83	378.38	6760.66	379.5	6760.57	379.95	6760.48
380.05	6760.53	381.71	6760.12	383.39	6759.66	383.91	6759.55	384.22	6759.44
386.55	6759.09	388.38	6759.02	390.05	6758.9	390.75	6758.86	391.53	6758.8
392.55	6758.75	394.49	6759	396.03	6759.19	396.72	6759.23	397.13	6759.34
400.89	6759.97	402	6760.24	403.39	6760.29	404.23	6760.33	405.9	6760.39
407.1	6760.42	407.7	6760.45	409.02	6760.5	409.59	6760.5	412.22	6760.46
413.24	6760.48	415.63	6760.61	419.24	6760.83	419.6	6760.84	420.4	6760.89
421.73	6760.95	422.44	6760.95	423.56	6760.89	424.49	6760.83	425.9	6760.75
426.2	6760.77	426.53	6760.75	427.65	6760.77	429.6	6760.82	435.46	6760.91
435.91	6760.91	438.1	6760.94	438.41	6760.96	440.74	6761.03	442.9	6761.08
444.71	6761.06	445.72	6761.06	445.92	6761.05	448.68	6761.03	450.91	6761
451.75	6761	453.12	6760.98	453.97	6760.95	455.28	6760.88	456.19	6760.85
457.21	6760.8	458.23	6760.76	459.25	6760.7	459.26	6760.69	460.28	6760.64
462.32	6760.52	463.34	6760.47	465.1	6760.49	465.86	6760.51	466.41	6760.51
467.59	6760.53	468.3	6760.56	470.5	6760.58	470.93	6760.59	472.81	6760.58
473.43	6760.56	474.59	6760.57	475.62	6760.59	476.76	6760.6	477.76	6760.62
479.27	6760.64	480.1	6760.66	481.72	6760.68	481.85	6760.69	483.44	6760.71
485.69	6760.76	487.6	6760.81	488.44	6760.82	488.91	6760.84	492.61	6760.75
493.62	6760.74	495.1	6760.74	495.39	6760.73	496.78	6760.73	497.09	6760.72
498.44	6760.72	498.9	6760.71	500.23	6760.71	501.77	6760.69	504.19	6760.65
505.12	6760.66	507.31	6760.64	508.45	6760.64	510.11	6760.62	510.8	6760.62
511.78	6760.6	513.44	6760.59	514.47	6760.59	516.09	6760.52	517.41	6760.48
518.45	6760.43	519.59	6760.39	520.6	6760.27	520.95	6760.24	521.79	6760.14
523.68	6759.97	524.69	6759.87	525.96	6759.86	527.98	6759.76	529.81	6759.68
530.83	6759.62	531.79	6759.55	533.46	6759.45	539.01	6759.08	539.29	6759.05

540.97	6758.94	542.62	6758.86	545.06	6758.92	545.93	6758.89	546.04	6758.91
546.69	6758.87	547.5	6759.05	548.87	6759.33	549.94	6759.56	550.28	6759.6
550.76	6759.74	551.1	6759.75	551.57	6759.71	551.69	6759.77	552.14	6759.75
552.39	6759.79	553.1	6759.78	553.32	6759.81	554.52	6759.93	554.83	6759.97
555.64	6760.03	556.46	6760.06	560.52	6760.16	561.34	6760.19	562.46	6760.21
564.59	6760.27	565.41	6760.28	568.64	6760.36	569.48	6760.36	570.72	6760.42
571.92	6760.49	573.55	6760.57	575.88	6760.7	576.8	6760.74	578.43	6760.83
579.24	6760.86	580.87	6760.97	582.49	6761.06	583.11	6761.11	585.09	6761.22
586.57	6761.31	586.68	6760.14	605.68	6753.72	616.97	6753.35	617.68	6753.33
633.68	6753.62	656.68	6754.82	685.81	6759.91	686.09	6759.96	687.68	6760.24
700.68	6760.29	710.67	6760.03	750.68	6760.1				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-24.94	.05	585.09	.04	686.09	.05

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	585.09	686.09	.3	.5

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 3609

INPUT

Description:

Station Elevation Data		num= 488									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-24.94	6758.55	-23.49	6758.53	-22.35	6758.53	-20.15	6758.51	-19.45	6758.49		
-17.24	6758.45	-15.98	6758.45	-14.31	6758.5	-11.81	6758.56	-8.48	6758.56		
-7.64	6758.57	-7.34	6758.55	-6.81	6758.55	-3.95	6758.48	-2.93	6758.46		
-1.81	6758.46	-.14	6758.49	1.53	6758.54	2.36	6758.58	4.86	6758.65		
6.53	6758.64	8.52	6758.62	10.37	6758.58	10.7	6758.58	12.48	6758.54		
13.2	6758.53	14.04	6758.54	14.45	6758.56	17.37	6758.65	18.54	6758.74		
20.42	6758.72	21.54	6758.72	22.37	6758.68	23.66	6758.63	25.71	6758.66		
26.73	6758.71	27.37	6758.73	28.78	6758.8	29.66	6758.81	30.99	6758.81		
32.86	6758.79	34.04	6758.79	34.75	6758.8	36.54	6758.86	37.38	6758.88		
38.92	6758.93	39.88	6758.94	41.56	6758.94	42.06	6758.95	43.09	6758.95		
43.22	6758.96	44.2	6758.96	44.88	6758.97	46.16	6758.97	48.17	6759.02		
49.89	6759.08	51.26	6759.15	54.34	6759.36	54.88	6759.38	56.38	6759.37		
57.43	6759.35	58.23	6759.32	59.45	6759.29	60.72	6759.21	61.39	6759.18		
63.22	6759.07	63.54	6759.08	65.59	6759.08	65.72	6759.09	67.39	6759.09		
68.65	6759.13	69.67	6759.17	70.87	6759.23	73.28	6759.37	74.9	6759.48		
75.73	6759.51	77.25	6759.51	77.4	6759.5	79.07	6759.5	79.9	6759.49		
84.06	6759.49	85.01	6759.56	86.03	6759.55	87.06	6759.53	88.23	6759.52		
89.91	6759.48	92.4	6759.48	93.46	6759.46	95.23	6759.44	96.57	6759.6		

97.08	6759.59	97.28	6759.61	99.32	6759.61	100.35	6759.62	100.74	6759.57
101.05	6759.57	102.48	6759.47	104.91	6759.37	105.46	6759.37	106.58	6759.39
108.53	6759.44	108.98	6759.47	109.08	6759.45	110.57	6759.59	112.62	6759.82
112.94	6759.81	113.25	6759.89	114.92	6759.77	115.75	6759.72	116.59	6759.69
116.91	6759.69	117.41	6759.66	119.78	6759.77	120.75	6759.81	121.58	6759.86
123.26	6759.94	123.87	6759.96	125.75	6760.05	126.59	6760.03	128.25	6760.01
129.92	6759.98	131.6	6759.98	132.42	6759.96	134.1	6759.94	136.13	6759.98
137.16	6759.98	137.43	6759.99	138.62	6759.99	139.93	6760	140.22	6760.01
142.02	6760.01	143.13	6759.98	144.93	6759.91	145.77	6759.87	146.6	6759.85
147.3	6759.88	148.63	6759.91	150.77	6759.98	151.27	6759.98	154.94	6760.03
156.69	6760.03	157.88	6760.01	159.11	6760	161.84	6760	163.28	6760.03
164.94	6760.1	165.81	6760.13	166.81	6760.18	168.28	6760.16	169.11	6760.16
171.1	6760.14	173.28	6760.09	173.74	6760.09	175.07	6760.06	177.04	6760.03
178.06	6760.02	179.12	6760.02	180.1	6760.01	182.99	6759.95	183.17	6759.94
186.96	6759.88	188.29	6759.85	190.33	6759.73	190.92	6759.69	192.38	6759.61
196.63	6759.51	197.54	6759.52	198.86	6759.47	200.8	6759.41	203.62	6759.38
204.96	6759.37	206.36	6759.35	207.72	6759.34	208.73	6759.35	212.08	6759.4
212.82	6759.39	213.3	6759.52	213.39	6759.43	214.13	6759.6	214.72	6759.82
214.97	6759.88	215.4	6759.76	215.81	6759.71	216.04	6759.77	216.63	6760.18
216.91	6760.21	217.36	6760.38	217.47	6760.05	217.94	6760.3	218.3	6760.66
218.69	6760.43	218.96	6760.65	219.14	6760.61	220.8	6760.17	221.64	6759.96
222.03	6759.85	223.06	6759.59	224.42	6759.57	225.81	6759.54	226.64	6759.51
227.14	6759.48	228.16	6759.44	229.26	6759.76	230.21	6760.05	232.48	6760.76
233.31	6761.03	234.15	6761.26	235.81	6761.49	237.19	6761.67	238.31	6761.83
238.51	6761.85	240.44	6761.78	241.46	6761.75	242.49	6761.71	243.31	6761.61
244.53	6761.48	244.99	6761.44	246.65	6761.26	247.48	6760.95	248.62	6760.54
250.41	6760.22	250.82	6760.14	251.52	6760.06	253.72	6759.79	254.99	6759.7
256.04	6759.64	257.01	6759.57	259.16	6759.44	259.66	6759.47	259.98	6759.46
260.82	6759.49	262.3	6759.56	262.49	6759.56	264.15	6759.64	264.95	6759.63
265.83	6759.69	266.27	6759.7	267.59	6759.78	268.91	6759.85	270	6759.83
271.55	6759.78	274.11	6759.67	275.52	6759.67	275.83	6759.68	278.33	6759.68
279.48	6759.69	281.34	6759.72	282.5	6759.73	283.38	6759.75	284.78	6759.77
285.43	6759.77	288.34	6759.81	289.18	6759.83	290	6759.83	292.17	6759.8
293.34	6759.79	294.63	6759.79	295.65	6759.82	296.67	6759.84	299.74	6759.84
300.63	6759.9	301.68	6759.94	301.96	6759.94	303.84	6760.01	305.01	6760.04
306.68	6760.02	307.25	6760.02	309.18	6759.99	310.23	6760	313.86	6760.08
314.19	6760.08	315.01	6760.11	316.68	6760.21	317.52	6760.27	319.26	6760.33
320.46	6760.38	321.69	6760.45	321.79	6760.47	322.52	6760.52	325.31	6760.77
326.32	6760.79	328.39	6760.79	329.4	6760.78	332.53	6760.82	333.48	6760.84
333.68	6760.86	334.19	6760.85	335.53	6761	336.7	6761.04	338.6	6761.12
340.86	6761.23	341.84	6761.27	343.37	6761.35	344.19	6761.38	346.36	6761.49
346.9	6761.5	348.22	6761.46	350.87	6761.4	351.88	6761.4	352.18	6761.39
361.09	6761.39	363.37	6761.32	364.21	6761.27	365.41	6761.21	366.2	6761.16
367.22	6761.15	368.94	6761.15	369.21	6761.14	370.88	6761.14	371.32	6761.13
375.41	6760.86	375.98	6760.83	378.38	6760.66	379.5	6760.57	379.95	6760.48
380.05	6760.53	381.71	6760.12	383.39	6759.66	383.91	6759.55	384.22	6759.44
386.55	6759.09	388.38	6759.02	390.05	6758.9	390.75	6758.86	391.53	6758.8
392.55	6758.75	394.49	6759	396.03	6759.19	396.72	6759.23	397.13	6759.34
400.89	6759.97	402	6760.24	403.39	6760.29	404.23	6760.33	405.9	6760.39
407.1	6760.42	407.7	6760.45	409.02	6760.5	409.59	6760.5	412.22	6760.46
413.24	6760.48	415.63	6760.61	419.24	6760.83	419.6	6760.84	420.4	6760.89
421.73	6760.95	422.44	6760.95	423.56	6760.89	424.49	6760.83	425.9	6760.75
426.2	6760.77	426.53	6760.75	427.65	6760.77	429.6	6760.82	435.46	6760.91
435.91	6760.91	438.1	6760.94	438.41	6760.96	440.74	6761.03	442.9	6761.08
444.71	6761.06	445.72	6761.06	445.92	6761.05	448.68	6761.03	450.91	6761
451.75	6761	453.12	6760.98	453.97	6760.95	455.28	6760.88	456.19	6760.85
457.21	6760.8	458.23	6760.76	459.25	6760.7	459.26	6760.69	460.28	6760.64
462.32	6760.52	463.34	6760.47	465.1	6760.49	465.86	6760.51	466.41	6760.51
467.59	6760.53	468.3	6760.56	470.5	6760.58	470.93	6760.59	472.81	6760.58
473.43	6760.56	474.59	6760.57	475.62	6760.59	476.76	6760.6	477.76	6760.62
479.27	6760.64	480.1	6760.66	481.72	6760.68	481.85	6760.69	483.44	6760.71
485.69	6760.76	487.6	6760.81	488.44	6760.82	488.91	6760.84	492.61	6760.75
493.62	6760.74	495.1	6760.74	495.39	6760.73	496.78	6760.73	497.09	6760.72
498.44	6760.72	498.9	6760.71	500.23	6760.71	501.77	6760.69	504.19	6760.65
505.12	6760.66	507.31	6760.64	508.45	6760.64	510.11	6760.62	510.8	6760.62
511.78	6760.6	513.44	6760.59	514.47	6760.59	516.09	6760.52	517.41	6760.48
518.45	6760.43	519.59	6760.39	520.6	6760.27	520.95	6760.24	521.79	6760.14
523.68	6759.97	524.69	6759.87	525.96	6759.86	527.98	6759.76	529.81	6759.68
530.83	6759.62	531.79	6759.55	533.46	6759.45	539.01	6759.08	539.29	6759.05
540.97	6758.94	542.62	6758.86	545.06	6758.92	545.93	6758.89	546.04	6758.91
546.69	6758.87	547.5	6759.05	548.87	6759.33	549.94	6759.56	550.28	6759.6

550.76	6759.74	551.1	6759.75	551.57	6759.71	551.69	6759.77	552.14	6759.75
552.39	6759.79	553.1	6759.78	553.32	6759.81	554.52	6759.93	554.83	6759.97
555.64	6760.03	556.46	6760.06	560.52	6760.16	561.34	6760.19	562.46	6760.21
564.59	6760.27	565.41	6760.28	568.64	6760.36	569.48	6760.36	570.72	6760.42
571.92	6760.49	573.55	6760.57	575.88	6760.7	576.8	6760.74	578.43	6760.83
579.24	6760.86	580.87	6760.97	582.49	6761.06	583.11	6761.11	585.09	6761.22
586.57	6761.31	586.68	6760.14	605.68	6753.72	616.97	6753.35	617.68	6753.33
633.68	6753.62	656.68	6754.82	685.81	6759.91	686.09	6759.96	687.68	6760.24
700.68	6760.29	710.67	6760.03	750.68	6760.1				

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
-24.94	.05	585.09	.04	686.09	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	585.09	686.09		221.26	221.27	221.26		.3	.5

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3379

INPUT

Description:

Station Elevation Data			num= 489						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-151.32	6759.34	-151	6759.41	-149.62	6759.45	-149.37	6759.45	-147.98	6759.48
-145.97	6759.48	-145.51	6759.47	-143.32	6759.47	-142.62	6759.46	-142.27	6759.44
-141.66	6759.44	-141.22	6759.43	-140.69	6759.43	-139.73	6759.41	-138.93	6759.41
-138.76	6759.4	-138.07	6759.4	-137.93	6759.39	-137.02	6759.44	-136.84	6759.44
-132.98	6759.48	-131.76	6759.48	-131.05	6759.5	-130.71	6759.5	-129.88	6759.53
-129.66	6759.53	-129.03	6759.55	-128.02	6759.45	-127.27	6759.47	-126.97	6759.47
-126.3	6759.49	-125.92	6759.49	-125.34	6759.51	-124.87	6759.51	-124.11	6759.53
-123.82	6759.53	-123.1	6759.55	-122.44	6759.55	-122.1	6759.56	-120.52	6759.56
-120.09	6759.57	-118.57	6759.57	-118.08	6759.58	-117.52	6759.56	-116.66	6759.54
-115.7	6759.51	-115.42	6759.51	-113.05	6759.44	-112.26	6759.46	-111.84	6759.48
-110.16	6759.53	-109.91	6759.53	-109.11	6759.56	-108.95	6759.56	-108.06	6759.59
-107.1	6759.6	-107.02	6759.61	-105.96	6759.62	-105.09	6759.64	-104	6759.65
-103.86	6759.66	-102.81	6759.67	-102.2	6759.69	-101.76	6759.69	-100.98	6759.71
-100.7	6759.71	-99.97	6759.73	-98.97	6759.74	-98.34	6759.76	-97.55	6759.76
-97.37	6759.75	-94.48	6759.69	-93.94	6759.67	-93.52	6759.67	-92.93	6759.65
-92.55	6759.66	-91.93	6759.66	-91.59	6759.67	-90.92	6759.67	-90.62	6759.68
-89.92	6759.68	-89.66	6759.69	-88.7	6759.69	-87.73	6759.7	-87.05	6759.73
-86.77	6759.73	-84.94	6759.75	-84.84	6759.76	-82.84	6759.78	-81.95	6759.76
-81.79	6759.75	-80.74	6759.75	-80.02	6759.74	-78.85	6759.74	-78.64	6759.73
-77.59	6759.73	-76.84	6759.74	-76.16	6759.76	-75.2	6759.77	-74.44	6759.79
-74.23	6759.79	-72.82	6759.82	-71.82	6759.82	-71.34	6759.81	-71.28	6759.82
-70.81	6759.81	-69.8	6759.81	-69.41	6759.8	-68.13	6759.8	-66.52	6759.77
-66.03	6759.77	-64.98	6759.75	-64.59	6759.75	-62.88	6759.73	-61.7	6759.73
-60.78	6759.72	-59.73	6759.72	-57.84	6759.7	-56.87	6759.71	-56.73	6759.72
-55.72	6759.73	-55.52	6759.74	-54.72	6759.74	-54.47	6759.75	-53.42	6759.75
-52.71	6759.76	-52.37	6759.75	-51.7	6759.75	-51.32	6759.74	-50.7	6759.74
-49.69	6759.72	-49.16	6759.72	-48.2	6759.7	-47.68	6759.7	-46.67	6759.68
-46.07	6759.68	-45.3	6759.67	-45.02	6759.66	-43.96	6759.66	-43.66	6759.65
-42.65	6759.65	-41.86	6759.62	-40.81	6759.6	-40.48	6759.6	-39.76	6759.57
-39.52	6759.57	-38.71	6759.6	-38.55	6759.6	-37.59	6759.63	-36.81	6759.66
-35.66	6759.71	-35.56	6759.72	-34.51	6759.76	-33.73	6759.73	-33.46	6759.73
-32.77	6759.71	-31.8	6759.7	-30.84	6759.7	-30.58	6759.69	-29.58	6759.69
-28.91	6759.67	-28.57	6759.67	-27.57	6759.65	-27.15	6759.66	-26.56	6759.66
-25.56	6759.68	-25.05	6759.68	-24.55	6759.69	-24.09	6759.71	-24	6759.7
-23.13	6759.73	-22.54	6759.76	-21.9	6759.75	-20.85	6759.72	-20.53	6759.72
-19.8	6759.7	-19.27	6759.7	-18.75	6759.68	-18.3	6759.68	-17.7	6759.69
-16.38	6759.69	-15.59	6759.7	-14.45	6759.7	-13.38	6759.71	-12.44	6759.68
-11.55	6759.71	-11.39	6759.71	-8.66	6759.79	-8.24	6759.8	-7.7	6759.79
-7.19	6759.8	-6.14	6759.8	-5.77	6759.81	-4.44	6759.81	-4.04	6759.82
-2.99	6759.82	-2.88	6759.83	-2.43	6759.83	-1.93	6759.84	-.41	6759.84
.02	6759.85	1.6	6759.85	1.95	6759.86	4.84	6759.86	5.42	6759.85
7.73	6759.85	8.7	6759.84	9.62	6759.82	10.05	6759.82	10.67	6759.81
12.55	6759.79	12.66	6759.78	17.37	6759.78	17.69	6759.77	18.03	6759.78
18.34	6759.76	18.69	6759.77	19.08	6759.75	19.3	6759.75	20.13	6759.73

20.27	6759.72	21.23	6759.7	21.71	6759.68	22.72	6759.66	23.16	6759.67
23.28	6759.65	23.72	6759.67	24.33	6759.68	25.09	6759.7	26.74	6759.75
27.02	6759.75	27.49	6759.77	27.98	6759.77	28.54	6759.82	29.76	6759.82
29.91	6759.81	32.8	6759.81	33.79	6759.78	34.84	6759.76	35.69	6759.74
35.89	6759.74	36.94	6759.71	37.8	6759.7	38.59	6759.65	39.04	6759.63
39.55	6759.62	39.81	6759.6	41.15	6759.56	41.48	6759.54	42.83	6759.5
43.25	6759.51	43.83	6759.51	44.3	6759.52	44.37	6759.53	44.84	6759.53
45.34	6759.55	47.27	6759.59	47.86	6759.61	48.86	6759.58	49.19	6759.58
49.55	6759.56	50.16	6759.55	50.6	6759.55	52.7	6759.51	53.05	6759.51
54.02	6759.48	54.98	6759.46	56.91	6759.4	57.87	6759.38	58.84	6759.29
59.01	6759.28	59.92	6759.2	60.06	6759.18	60.77	6759.19	61.73	6759.17
62.94	6759.17	64.26	6759.08	65.96	6758.98	67.97	6758.84	68.48	6758.81
68.98	6758.77	69.52	6758.74	69.98	6758.7	70.99	6758.63	71.99	6758.57
72.34	6758.54	73.3	6758.48	73.72	6758.46	74.77	6758.4	75.23	6758.38
75.82	6758.37	76.19	6758.35	77.92	6758.3	78.97	6758.26	79.09	6758.25
81.01	6758.17	81.04	6758.16	81.98	6758.16	82.05	6758.15	83.18	6758.14
84.23	6758.11	85.84	6758.08	86.33	6758.06	86.8	6758.03	87.08	6758.03
87.76	6757.99	89.09	6757.95	89.48	6757.93	90.09	6757.92	90.53	6757.9
91.1	6757.89	91.58	6757.87	91.62	6757.88	92.11	6757.87	92.63	6757.87
93.11	6757.86	93.68	6757.86	94.12	6757.85	94.73	6757.85	95.48	6757.84
95.79	6757.83	96.44	6757.83	96.84	6757.82	97.41	6757.82	98.14	6757.81
98.37	6757.8	99.34	6757.78	100.3	6757.75	101.04	6757.74	101.26	6757.73
102.23	6757.71	103.19	6757.68	103.78	6757.64	105.12	6757.54	105.24	6757.54
106.09	6757.48	106.29	6757.46	107.34	6757.39	108.01	6757.33	108.39	6757.31
109.44	6757.24	109.94	6757.2	110.21	6757.19	111.21	6757.12	111.55	6757.09
112.22	6757.05	112.6	6757.02	112.84	6757.02	113.22	6756.99	113.65	6757.12
114.23	6757.28	114.76	6757.44	115.24	6757.57	115.75	6757.72	116.8	6758.02
118.25	6758.44	118.9	6758.59	119.59	6758.74	119.95	6758.83	121.27	6759.12
121.51	6759.18	122.28	6759.35	122.48	6759.4	123.28	6759.58	124.16	6759.6
125.21	6759.64	125.37	6759.64	127.3	6759.7	128.26	6759.74	128.36	6759.74
129.23	6759.81	130.32	6759.89	130.46	6759.91	131.33	6759.97	132.12	6760.04
132.33	6760.05	133.34	6760.13	134.34	6760.12	134.66	6760.11	135.35	6760.11
136.35	6760.09	136.76	6760.09	136.94	6760.08	137.36	6760.08	137.82	6760.07
138.37	6760.07	140.38	6759.99	140.97	6759.96	141.38	6759.95	142.39	6759.9
143.07	6759.88	143.39	6759.86	144.12	6759.87	147.55	6759.87	148.32	6759.86
149.48	6759.86	150.64	6759.85	153.33	6759.82	153.58	6759.82	154.3	6759.79
154.63	6759.77	155.68	6759.72	156.23	6759.69	156.73	6759.67	158.16	6759.59
159.12	6759.56	159.88	6759.55	160.08	6759.56	160.49	6759.55	160.93	6759.56
162.01	6759.56	162.5	6759.57	163.03	6759.57	163.51	6759.58	163.94	6759.57
164.51	6759.57	165.13	6759.56	165.87	6759.54	166.19	6759.54	167.53	6759.5
167.8	6759.5	168.29	6759.48	168.76	6759.47	169.34	6759.43	169.73	6759.42
170.55	6759.37	170.69	6759.37	171.66	6759.33	172.49	6759.3	173.58	6759.27
174.07	6759.24	174.55	6759.22	174.59	6759.21	175.51	6759.17	176.48	6759.11
177.44	6759.06	178.59	6758.99	179.37	6758.95	180.33	6758.91	180.9	6758.88
181.3	6758.89	181.95	6758.87	183.62	6758.87	184.63	6758.83	185.1	6758.82
185.16	6758.81	185.63	6758.8	186.12	6758.76	186.15	6758.78	186.64	6758.75
187.2	6758.7	188.65	6758.6	189.65	6758.55	190.66	6758.51	190.94	6758.49
191.91	6758.45	192.45	6758.42	192.67	6758.4	193.68	6758.35	194.8	6758.2
195	6758.2	198.83	6756.95	198.84	6756.95	220	6751.3	500	6751.3
524.31	6757.33	524.9	6757.33	526.31	6757.68	540.27	6757.51	608.71	6756.34
642.43	6755.84	643.3	6755.83	650.36	6753.44	651.96	6752.9	652.78	6752.63
671.92	6752.33	672.64	6752.32	690.41	6753.19	690.65	6753.29	705.51	6759.57
706.07	6759.8	733.15	6764.22	733.58	6764.29	736.32	6764.59	736.74	6764.64
760.78	6764.35	805.54	6765.34	806.36	6765.6	822.2	6766.03		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-151.32	.05	643.3	.04	706.07	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	643.3	706.07		315 355.57	350		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-151.32	525	6758.5	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3035

INPUT

Description:

Station Elevation Data		num=		486							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-142.73	6759.51	-141.34	6759.54	-140.72	6759.56	-140.34	6759.56	-139.34	6759.59		
-138.88	6759.59	-138.8	6759.58	-137.34	6759.58	-136.88	6759.57	-135.34	6759.57		
-134.96	6759.56	-134.34	6759.56	-133.05	6759.52	-132.6	6759.5	-132.33	6759.5		
-131.33	6759.46	-131.13	6759.46	-130.51	6759.43	-129.47	6759.42	-128.42	6759.46		
-127.38	6759.51	-127.29	6759.52	-126.32	6759.56	-125.37	6759.61	-124.41	6759.62		
-123.45	6759.62	-123.33	6759.61	-122.15	6759.61	-121.53	6759.6	-120.53	6759.6		
-119.69	6759.57	-119.48	6759.57	-118.73	6759.54	-118.44	6759.52	-117.77	6759.5		
-117.39	6759.48	-116.81	6759.5	-116.59	6759.49	-116.35	6759.5	-114.59	6759.53		
-112.98	6759.53	-112.16	6759.56	-112.02	6759.54	-111.12	6759.59	-110.59	6759.61		
-109.59	6759.67	-109.03	6759.65	-107.98	6759.63	-106.58	6759.59	-106.26	6759.59		
-104.58	6759.54	-102.42	6759.54	-101.71	6759.53	-100.66	6759.56	-100.5	6759.57		
-99.62	6759.59	-99.55	6759.6	-98.73	6759.63	-97.63	6759.68	-97.53	6759.68		
-96.48	6759.73	-95.44	6759.74	-94.75	6759.76	-94.39	6759.76	-93.35	6759.78		
-92.83	6759.78	-91.26	6759.81	-90.21	6759.82	-89.58	6759.84	-88.99	6759.83		
-87.07	6759.79	-86.57	6759.79	-85.16	6759.76	-84.57	6759.74	-83.57	6759.76		
-83.24	6759.76	-82.28	6759.78	-81.85	6759.78	-80.8	6759.8	-80.36	6759.8		
-79.4	6759.81	-78.44	6759.85	-77.67	6759.87	-76.52	6759.91	-75.57	6759.95		
-74.53	6759.96	-73.64	6759.94	-73.48	6759.93	-72.68	6759.92	-72.44	6759.91		
-71.72	6759.9	-70.76	6759.88	-70.56	6759.87	-69.81	6759.87	-69.56	6759.86		
-69.3	6759.87	-68.85	6759.87	-67.21	6759.9	-66.56	6759.9	-65.56	6759.92		
-65.12	6759.92	-65.01	6759.93	-64.56	6759.93	-64.07	6759.94	-59.56	6759.94		
-58.85	6759.92	-58.29	6759.92	-57.56	6759.9	-56.37	6759.89	-55.41	6759.87		
-52.54	6759.84	-52.11	6759.83	-50.48	6759.83	-49.55	6759.82	-49.44	6759.83		
-48.7	6759.84	-47.74	6759.87	-46.78	6759.89	-46.55	6759.89	-45.26	6759.93		
-44.86	6759.93	-44.21	6759.95	-43.9	6759.94	-43.55	6759.95	-42.12	6759.95		
-41.98	6759.94	-40.03	6759.94	-39.55	6759.93	-39.11	6759.93	-38.99	6759.91		
-38.55	6759.9	-37.55	6759.9	-37.19	6759.89	-36.23	6759.89	-35.85	6759.88		
-34.8	6759.88	-34.31	6759.87	-33.76	6759.83	-31.67	6759.77	-31.43	6759.77		
-30.62	6759.75	-30.47	6759.74	-29.58	6759.72	-28.53	6759.73	-27.59	6759.78		
-26.63	6759.82	-25.67	6759.87	-24.54	6759.92	-23.76	6759.92	-23.54	6759.91		
-22.54	6759.91	-22.26	6759.9	-21.21	6759.9	-20.88	6759.89	-19.92	6759.89		
-19.54	6759.88	-18.08	6759.88	-18	6759.89	-17.54	6759.89	-17.04	6759.9		
-16.54	6759.9	-16.08	6759.91	-15.54	6759.91	-14.53	6759.93	-13.2	6759.93		
-12.85	6759.94	-12.24	6759.93	-11.53	6759.91	-11.28	6759.91	-9.71	6759.88		
-8.67	6759.88	-8.53	6759.89	-6.58	6759.91	-5.53	6759.91	-5.48	6759.92		
-4.49	6759.92	-3.61	6759.91	-2.65	6759.91	-2.4	6759.9	-1.69	6759.93		
-1.35	6759.93	-.31	6759.96	.23	6759.98	.47	6759.98	.74	6760		
1.79	6760.04	2.83	6760.09	3.11	6760.08	3.47	6760.1	4.48	6760.1		
4.92	6760.11	5.48	6760.11	8.06	6760.06	9.1	6760.06	9.48	6760.07		
12.48	6760.07	12.7	6760.06	15.58	6760.06	16.54	6760.05	17.47	6760.03		
17.83	6760.03	18.46	6760.01	19.42	6760	19.56	6759.99	20.37	6759.98		
20.48	6759.97	22.29	6759.97	22.49	6759.96	25.83	6759.96	27.92	6760.02		
28.97	6760.04	29.01	6760.02	29.49	6760.03	29.97	6760.02	30.01	6760.01		
30.49	6760	31.06	6760	31.49	6759.99	32.49	6759.99	32.85	6759.98		
33.49	6759.98	33.81	6759.99	34.19	6759.97	35.24	6760	35.72	6760.02		
36.68	6760.07	37.64	6760.13	38.6	6760.18	39.42	6760.23	40.52	6760.22		
43.4	6760.13	43.6	6760.13	44.65	6760.09	45.5	6760.08	46.74	6760		
47.24	6759.98	47.78	6759.94	48.2	6759.92	49.87	6759.82	50.11	6759.82		
50.5	6759.8	51.5	6759.82	52.03	6759.82	52.99	6759.84	53.5	6759.84		
55.5	6759.88	57.19	6759.83	57.5	6759.83	58.24	6759.81	58.75	6759.79		
59.71	6759.77	60.33	6759.75	60.67	6759.75	61.63	6759.72	62.42	6759.7		
63.46	6759.68	63.55	6759.67	64.51	6759.65	65.56	6759.62	66.42	6759.53		
66.6	6759.52	67.38	6759.45	67.65	6759.42	68.69	6759.33	70.26	6759.18		
70.78	6759.14	71.22	6759.12	71.51	6759.09	72.87	6759.01	73.92	6758.94		
74.51	6758.91	75.51	6758.84	76.01	6758.82	76.02	6758.81	76.98	6758.75		
77.05	6758.74	78.1	6758.67	78.9	6758.61	79.15	6758.6	80.52	6758.5		
81.77	6758.46	82.73	6758.44	85.61	6758.35	86.57	6758.33	87.51	6758.28		
88.55	6758.24	90.65	6758.14	91.52	6758.11	92.33	6758.1	92.74	6758.08		
93.52	6758.07	94.52	6758.04	94.83	6758.04	95.52	6758.02	96.92	6757.95		
97.12	6757.95	98.08	6757.91	99.01	6757.89	99.04	6757.88	99.53	6757.87		
100	6757.85	100.53	6757.84	100.96	6757.84	101.1	6757.85	101.92	6757.85		
102.14	6757.86	102.88	6757.85	103.53	6757.85	104.53	6757.83	105.28	6757.83		
106.53	6757.78	106.72	6757.78	107.37	6757.75	108.42	6757.72	108.64	6757.72		
109.46	6757.7	109.6	6757.69	110.55	6757.67	111.51	6757.62	111.55	6757.61		
112.47	6757.56	112.6	6757.56	113.43	6757.5	113.64	6757.49	114.39	6757.43		
115.35	6757.37	116.31	6757.29	116.54	6757.28	117.27	6757.22	118.23	6757.15		
118.87	6757.11	119.19	6757.08	119.92	6757.04	120.54	6757	121.11	6757.14		

121.54	6757.26	122.07	6757.39	123.03	6757.66	123.05	6757.65	124.1	6757.95
125.14	6758.26	125.9	6758.47	126.19	6758.54	126.54	6758.64	127.82	6758.97
128.28	6759.1	128.78	6759.21	129.54	6759.39	129.74	6759.43	130.37	6759.58
130.7	6759.62	131.42	6759.64	132.46	6759.68	132.62	6759.68	133.51	6759.71
133.58	6759.72	134.39	6759.74	134.55	6759.75	135.5	6759.78	135.6	6759.79
136.46	6759.83	137.42	6759.89	137.69	6759.9	138.73	6759.96	139.34	6760.02
139.55	6760.03	140.55	6760.11	140.82	6760.1	141.55	6760.1	141.87	6760.09
142.92	6760.09	143.17	6760.08	143.96	6760.08	144.13	6760.07	145.01	6760.06
145.55	6760.06	147.01	6760	147.55	6759.97	147.97	6759.96	148.55	6759.93
149.19	6759.91	150.23	6759.86	150.85	6759.85	151.28	6759.86	152.55	6759.86
152.77	6759.87	153.73	6759.87	154.41	6759.88	155.56	6759.88	155.64	6759.87
156.6	6759.87	157.55	6759.86	158.6	6759.86	159.48	6759.85	160.44	6759.85
161.4	6759.81	162.36	6759.76	162.56	6759.76	163.32	6759.72	164.56	6759.67
165.24	6759.63	166.2	6759.6	166.56	6759.6	167.16	6759.58	168.01	6759.56
169.56	6759.53	170.04	6759.54	170.1	6759.52	171.14	6759.52	171.57	6759.51
172.57	6759.51	172.91	6759.5	173.57	6759.5	173.87	6759.49	174.57	6759.49
174.83	6759.48	175.57	6759.48	175.79	6759.46	176.57	6759.42	177.41	6759.37
177.71	6759.36	178.46	6759.32	178.67	6759.3	179.5	6759.26	180.55	6759.2
181.6	6759.15	182.51	6759.1	182.64	6759.1	183.47	6759.05	184.43	6759
185.38	6758.96	185.57	6758.94	186.82	6758.89	187.3	6758.86	187.87	6758.84
188.57	6758.8	189.57	6758.76	189.96	6758.73	190.18	6758.73	190.58	6758.7
191.14	6758.68	192.05	6758.66	192.1	6758.65	192.58	6758.64	193.06	6758.62
193.58	6758.61	194.58	6758.57	194.98	6758.56	195.19	6758.54	195.58	6758.53
196.58	6758.48	196.9	6758.47	197.58	6758.43	198.82	6758.38	199.78	6758.33
200	6758.33	205.59	6754.36	210	6751.5	570	6751.5	593.85	6756.36
594.02	6756.36	606.59	6756.43	732.89	6753.46	737.63	6754.47	744.84	6755.31
759.69	6753.51	773.27	6752.41	774.08	6752.36	786.67	6751.55	797.57	6752.22
798.51	6752.28	806.25	6756.12	824.93	6755.35	850.47	6758.23	857.31	6760.67
883.7	6760.92	891.88	6763.58	897.95	6764.41	923.07	6764.3	925.78	6763.89
931.05	6762.01	936.44	6762.1	972.18	6771.59	1011.22	6767.87	1013.25	6767.99
1021.22	6767.99								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-142.73	.05	737.63	.04	806.25	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

737.63	806.25	373.7	373.7	373.7	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-142.73	600	6758.5	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 2665

INPUT

Description:

Station Elevation Data		num= 381							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-429.47	6760.51	-207.29	6780.22	-205.84	6759.63	-203.12	6759.3	-202.79	6759.25
-200.54	6758.99	-199.35	6758.91	-197.71	6758.78	-196.1	6758.67	-195.67	6758.63
-193.78	6758.61	-193.61	6758.6	-191.94	6758.58	-191.12	6758.6	-190.22	6758.59
-188.63	6758.51	-187.64	6758.49	-185.51	6758.43	-182.42	6758.28	-180.77	6758.18
-179.93	6758.16	-178.19	6758.16	-177.44	6758.15	-175.61	6758.15	-175.34	6758.14
-173.89	6758.14	-173.71	6758.13	-172.17	6758.13	-170.45	6758.12	-169.59	6758.09
-168.73	6758.08	-167.21	6758.03	-165.29	6757.98	-164.16	6757.94	-161.28	6757.88
-160.04	6757.86	-158.42	6757.71	-155.06	6757.42	-151.33	6757.15	-149.93	6757.1
-146.88	6758.58	-145.86	6759.08	-144.85	6759.56	-143.65	6759.68	-141.22	6759.94
-139.76	6760.09	-138.9	6760.05	-136.41	6759.99	-134.68	6759.94	-130.91	6759.77
-129.19	6759.7	-128.33	6759.68	-127.71	6759.65	-126.94	6759.65	-125.75	6759.67
-124.52	6759.68	-123.5	6759.72	-121.37	6759.82	-119.73	6759.88	-119.43	6759.9
-117.15	6759.61	-115.8	6759.43	-114.35	6759.27	-114.03	6759.17	-113.71	6759.16
-113.33	6759.03	-109.27	6758.21	-107.24	6757.94	-106.57	6757.84	-104.19	6757.51
-102.15	6756.71	-101.68	6756.6	-101.59	6756.49	-99.08	6755.84	-96.05	6755.36
-95.66	6755.25	-95.38	6755.25	-94.02	6754.89	-91.65	6754.68	-89.95	6754.54
-88.94	6754.44	-87.93	6754.43	-86.67	6754.4	-86.21	6754.4	-83.63	6754.35
-82.37	6754.35	-81.91	6754.34	-80.19	6754.34	-79.79	6754.33	-78.47	6754.33
-77.97	6754.32	-75.03	6754.31	-74.71	6754.3	-73.31	6754.3	-73	6754.29

-71.59	6754.29	-71.23	6754.28	-69.87	6754.28	-69.62	6754.27	-68.02	6754.27
-64.29	6754.24	-63	6754.24	-62.51	6754.23	-59.32	6754.22	-57.43	6754.2
-56.12	6754.2	-55.59	6754.19	-54.34	6754.19	-51.33	6754.17	-48.13	6754.06
-46.88	6754.05	-45.23	6754.02	-42.18	6753.99	-40.65	6753.97	-39.79	6753.95
-34.45	6753.89	-31.96	6753.85	-30.72	6753.84	-27.95	6753.8	-26.67	6753.79
-25.75	6753.77	-24.31	6753.76	-23.45	6753.74	-22.02	6753.73	-21.1	6753.71
-19.82	6753.7	-15.8	6753.65	-14	6753.62	-12.7	6753.62	-12.28	6753.61
-9.58	6753.61	-8.84	6753.6	-6.26	6753.6	-5.85	6753.59	-2.82	6753.59
-2.53	6753.58	.62	6753.58	1.18	6753.57	4.06	6753.57	4.1	6753.56
6.75	6753.56	7.49	6753.55	14.75	6753.55	15.23	6753.56	20.85	6753.56
21.25	6753.57	23.99	6753.57	24.69	6753.58	26.94	6753.58	27.27	6753.59
29.99	6753.59	30.21	6753.6	32.7	6753.6	33.04	6753.61	35.86	6753.61
36.09	6753.62	40.17	6753.62	41.88	6753.6	43.89	6753.59	45.13	6753.57
46.18	6753.57	48.76	6753.54	50.1	6753.53	50.16	6753.53	51.6	6753.53
51.87	6753.52	53.74	6753.52	53.99	6753.51	56.21	6753.51	56.37	6753.5
58.38	6753.5	58.76	6753.49	60.57	6753.49	61.15	6753.48	62.71	6753.48
63.29	6753.47	65.13	6753.47	65.61	6753.46	67.39	6753.46	67.77	6753.45
69.5	6753.45	69.94	6753.44	72.11	6753.44	72.46	6753.43	74.3	6753.43
75	6753.42	76.65	6753.42	77.17	6753.41	79.04	6753.41	79.34	6753.4
81.43	6753.4	81.51	6753.39	83.68	6753.39	83.81	6753.38	85.84	6753.38
86.2	6753.37	88.01	6753.37	88.58	6753.36	90.18	6753.36	90.8	6753.35
92.63	6753.35	93.07	6753.34	94.7	6753.34	95.24	6753.33	96.93	6753.33
97.41	6753.32	99.58	6753.32	99.97	6753.31	101.8	6753.31	102.47	6753.3
104.09	6753.3	104.64	6753.29	106.48	6753.29	106.8	6753.28	108.35	6753.28
108.86	6753.27	111.25	6753.27	112.44	6753.25	112.81	6753.23	114.03	6753.2
116.2	6753.2	116.48	6753.19	119.09	6753.19	119.6	6753.18	121.26	6753.18
121.98	6753.17	124.37	6753.17	124.87	6753.16	127.04	6753.16	127.48	6753.15
129.21	6753.15	129.31	6753.14	131.53	6753.14	132.1	6753.13	133.92	6753.13
134.27	6753.12	136.65	6753.12	137.16	6753.11	139.33	6753.11	139.88	6753.1
145.85	6753.1	147.65	6753.5	149.31	6753.9	150.62	6754.2	151.81	6754.49
153.15	6755.21	153.79	6755.54	155.23	6756.32	156.14	6756.8	157.78	6757.68
160.29	6757.91	161.01	6757.99	161.35	6758.01	163.74	6758.24	165.99	6758.29
167.83	6758.36	169.66	6758.44	172.58	6758.44	173.2	6758.45	174.48	6758.45
174.75	6758.46	176.62	6758.45	177.64	6758.46	179.25	6758.46	179.81	6758.47
181.97	6758.48	182.83	6758.5	184.87	6758.53	185.59	6758.53	187.6	6758.56
188.79	6758.57	191.37	6758.61	193.5	6758.63	197.88	6758.75	199.53	6758.8
201.49	6758.95	202.67	6759.05	203.66	6759.12	205.49	6759.27	207.88	6759.45
209.07	6759.55	209.44	6759.56	210.75	6759.68	210.89	6759.66	211.84	6759.75
212.65	6759.78	213.84	6759.84	219.18	6760.07	220.99	6760.16	222.84	6760.24
224.4	6760.3	226.61	6760.37	228.35	6760.44	230.4	6760.51	232.01	6760.54
234.74	6760.6	237.51	6760.68	239.35	6760.72	240.52	6760.76	241.97	6760.79
247.03	6760.93	247.25	6760.94	249.19	6760.91	250.35	6760.88	250.83	6760.88
252.19	6760.85	257.98	6760.75	260.04	6760.71	260.37	6760.69	262.2	6760.63
262.76	6760.62	263.83	6760.58	265.24	6760.53	265.83	6760.52	266.94	6760.48
270.18	6760.25	271.03	6760.2	272.36	6759.86	275.74	6759.02	275.98	6758.99
276.92	6758.73	277.43	6758.67	277.86	6758.5	278.25	6758.42	278.89	6758.34
279.28	6758.21	282.82	6757.51	283.91	6757.36	285.18	6757.2	285.79	6757.11
289.77	6756.96	291.08	6756.92	294.85	6756.77	296.3	6756.67	298.48	6756.54
300.52	6756.4	304.06	6756.18	305.73	6756.08	306.52	6756.05	307.6	6755.94
311.14	6755.55	312.99	6755.34	318.21	6754.98	318.85	6755	320.24	6755.02
320.97	6755.06	323.49	6755.23	327.5	6755.34	330.01	6755.27	331.85	6755.43
332.91	6755.51	334.62	6755.66	338.57	6755.98	339.45	6756.06	339.84	6756.07
340.92	6756.18	341.29	6756.17	341.81	6756.23	342.74	6756.23	342.99	6756.17
345.35	6755.96	347.09	6755.79	347.82	6755.73	349.27	6755.59	349.99	6755.53
350.01	6750.6	361.23	6749.18	372.67	6747.74	382.52	6747.3	387.62	6747.51
395.33	6747.83	402.22	6751.5	403.01	6751.53	414.23	6751.94	451.48	6753.29
459.36	6754.98	468.23	6755.63	478.25	6755.95	607.14	6760	607.6	6760.02
695.8	6764								

Manning's n Values		num= 5							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-429.47	.1	-205.84	.016	-119.43	.05	350.01	.04	403.01	.05
Bank Sta: Left	Right	Lengths: Left Channel		Right		Coeff	Contr.	Expan.	
350.01	403.01	129.59 130.14		129.59			.3	.5	
Ineffective Flow	num= 1								
Sta L	Sta R	Elev	Permanent						
-429.47	-120	6758	T						

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 2539

INPUT

Description:

Station Elevation Data		num=		368					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-362.02	6780.22	-162.24	6780.22	-161.13	6760.02	-159.08	6759.87	-158.14	6759.81
-157.16	6759.73	-156.02	6759.65	-154.62	6759.61	-152.79	6759.57	-150.92	6759.52
-148.88	6759.49	-148.7	6759.48	-146.16	6759.45	-145.29	6759.42	-144.01	6759.35
-141.92	6759.26	-140.71	6759.2	-140.23	6759.22	-138.87	6759.25	-136.3	6759.33
-135.6	6759.32	-133.45	6759.32	-130.5	6759.29	-130.07	6759.22	-129.87	6759.22
-128.37	6759.01	-125.39	6758.61	-123.44	6758.55	-122.45	6758.53	-120.87	6758.48
-118.04	6758.43	-117.02	6758.42	-116.52	6758.44	-114.45	6758.44	-111.44	6758.42
-110.59	6758.39	-110.59	6758.41	-109.74	6758.38	-106.73	6758.23	-104.98	6758.13
-103.82	6758.15	-100.43	6758.17	-97.74	6758.15	-95.79	6758.15	-94.77	6758.14
-92.6	6758.07	-91.31	6758.02	-89.66	6757.94	-88.25	6757.82	-87.46	6757.74
-84.56	6757.49	-82.65	6757.14	-79.45	6756.54	-78.46	6756.93	-76.39	6757.72
-75.89	6757.92	-74.35	6758.51	-74.18	6758.54	-72.03	6759.01	-71.64	6759.11
-70.26	6759.42	-69.24	6759.66	-65.61	6759.84	-64.32	6759.89	-63.43	6759.88
-60.47	6759.81	-59.03	6759.77	-58.47	6759.77	-54.7	6759.71	-53.86	6759.68
-52.75	6759.68	-51.32	6759.65	-49.62	6759.63	-48.9	6759.61	-47.8	6759.61
-46.33	6759.59	-44.74	6759.59	-43.57	6759.58	-39.64	6759.5	-37.59	6759.49
-37.33	6759.5	-36.05	6759.5	-33.48	6759.52	-31.84	6759.5	-30.99	6759.48
-29.62	6759.47	-28.68	6759.45	-26.76	6759.43	-25.76	6759.43	-24.48	6759.41
-23.19	6759.4	-21.91	6759.36	-20.62	6759.33	-19.34	6759.26	-18.05	6759.2
-16.15	6759.13	-14.2	6759.05	-13.21	6759.02	-11.52	6758.92	-10.67	6758.86
-9.06	6758.77	-7.99	6758.67	-7.28	6758.46	-6.97	6758.33	-5.59	6757.9
-2.88	6757.04	-1.86	6757.19	-1.36	6757.08	-1.34	6757.26	.34	6757.01
2.22	6756.74	4.57	6757.77	5.28	6758.09	6.37	6758.54	7.33	6758.95
9.37	6759.23	10.39	6759.36	10.5	6759.39	11.51	6759.52	12.19	6759.7
12.43	6759.73	14.47	6759.77	15.49	6759.78	17.27	6759.81	19.58	6759.93
22.64	6760.11	24.89	6760.32	27.75	6760.57	28.77	6760.64	30.89	6760.8
32.85	6760.9	34.21	6760.9	34.64	6760.91	37.95	6760.91	39.29	6760.89
40.14	6760.89	41.83	6760.87	43.06	6760.87	43.52	6760.89	43.64	6760.85
45.22	6760.91	45.78	6760.94	48.16	6761.04	50.21	6761.03	51.35	6761
53.27	6760.97	54.53	6761	55.38	6761.01	56.23	6761.04	57.92	6761.04
59.06	6761.06	60.67	6761.11	61.31	6761.12	62.46	6761.16	63.48	6761.17
66.77	6761.09	68.06	6761.05	68.93	6761.01	70.62	6760.95	73.16	6760.83
74.71	6760.78	74.85	6760.79	75.77	6760.75	76.55	6760.8	77.4	6760.81
78.79	6760.87	81.63	6760.9	82.48	6760.9	84.77	6760.93	85.5	6760.93
86.71	6760.95	88.62	6760.96	89.91	6760.99	91.19	6761.04	95.05	6761.17
95.13	6761.18	99.21	6761.32	101.48	6761.29	101.95	6761.3	104.05	6761.31
106.36	6761.34	107.38	6761.34	108.73	6761.36	109.57	6761.36	110.47	6761.33
112.11	6761.29	112.48	6761.27	114.33	6761.22	118.04	6761.11	119.47	6761.06
122.27	6761.1	123.12	6761.12	125.21	6761.15	127.18	6761.19	127.8	6761.18
129.05	6761.18	129.9	6761.17	131.04	6761.13	135.82	6760.94	138.01	6760.86
140.03	6760.78	140.9	6760.73	141.32	6760.69	142.09	6760.65	145.17	6760.44
146.83	6760.34	149.03	6760.19	151.91	6760.01	153.32	6759.91	153.61	6759.9
154.99	6759.8	156.99	6759.67	158.42	6759.6	160.6	6759.48	162.07	6759.44
163.17	6759.42	164.45	6759.38	165.74	6759.35	166.31	6759.3	166.59	6759.3
169.69	6759.12	170.88	6759.06	173.08	6759.01	173.93	6758.98	176.8	6758.91
177.31	6758.89	178.23	6758.9	184.1	6759.02	187.1	6759.07	187.26	6759.08
189.87	6759.05	192.11	6759.05	192.43	6759.04	195.68	6759.04	196.11	6759.03
198.59	6759.03	198.63	6759.02	200.11	6759.02	202.11	6758.98	205.11	6758.94
206.34	6758.91	207.94	6758.89	212.16	6758.76	213.1	6758.74	215.07	6758.67
218.27	6758.58	218.95	6758.54	220.12	6758.5	220.88	6758.49	222.41	6758.49
222.82	6758.48	224.76	6758.48	225.12	6758.47	227.12	6758.47	227.58	6758.46
229.13	6758.46	230.13	6758.45	232.52	6758.48	235.42	6758.53	237.36	6758.55
238.95	6758.58	240.13	6758.58	249.14	6758.96	250.14	6758.95	255.78	6759
258.14	6759.01	259.62	6759.03	259.66	6759.08	260.14	6759.09	261.69	6759.09
263.54	6759.11	264.79	6759.11	265.14	6759.12	266.44	6759.12	268.15	6759.14
270.32	6759.15	273.23	6759.23	276.16	6759.29	279.05	6759.32	280.15	6759.34
281.33	6758.8	283.89	6757.64	284.86	6757.19	286.16	6756.61	286.8	6756.31
288.16	6755.7	289.16	6755.24	289.6	6755.25	289.71	6754.99	290.68	6754.99
291.65	6754.95	293.59	6754.91	296.16	6754.84	296.49	6754.84	300.37	6754.75
302.31	6754.81	303.28	6754.85	306.19	6754.94	306.83	6754.97	310.28	6755.08
312.35	6755.02	315.45	6754.9	316.48	6754.87	318.79	6754.78	319.05	6755.67
319.06	6755.94	319.06	6755.95	373.05	6749.4	383.05	6747.22	400.05	6747.21
419.05	6747.36	428.83	6750.03	431.05	6750.64	436.55	6751.04	506.05	6756.05

543.05	6754.38	552.56	6761.95	555.55	6761.92	555.65	6761.91	557.38	6761.89
559.55	6761.9	560.86	6761.92	563.55	6761.94	567.56	6761.94	569.2	6761.88
570.24	6761.85	573.37	6761.73	574.41	6761.7	575.67	6761.7	577.59	6761.71
578.58	6761.67	579.62	6761.61	581.44	6761.53	581.7	6761.51	586.57	6761.28
587.22	6761.24	588.57	6761.19	589.57	6761.14	592.12	6761.04	595.25	6760.91
595.88	6760.86	597.58	6760.7	599.73	6760.57	600.7	6760.5	604.55	6760.26
604.63	6760.25	607.75	6760.06	608.8	6760.01	610.59	6759.94	611.59	6759.89
612.25	6759.87	615.05	6759.74	616.09	6759.7	617.6	6759.57	619.22	6759.63
620.91	6759.68	622.34	6759.73	623.8	6759.79	625.47	6759.84	626.51	6759.88
627.55	6759.95	630.54	6759.92	630.61	6759.91	632.16	6759.9	632.16	6755.23
645.98	6755.25	657.27	6755.27	825.44	6758				

Manning's n Values num= 5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-362.02	.1	-162.24	.016	-25.76	.05	319.05	.04	506.05	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

319.05	506.05	21.59	21.03	21.59		.3	.5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-362.02	-70	6758	T

BRIDGE

RIVER: Walton Creek
 REACH: lower-main split RS: 2528

INPUT

Description:

Distance from Upstream XS = 8

Deck/Roadway Width = 9

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 5

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
277.43	6756.08	6755.08	329.34	6757.36	6756.36	362.34	6757.83	6756.83						
419.34	6757.27	6756.27	464.34	6756.04	6755.04									

Upstream Bridge Cross Section Data

Station Elevation Data num= 368

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-362.02	6780.22	-162.24	6780.22	-161.13	6760.02	-159.08	6759.87	-158.14	6759.81
-157.16	6759.73	-156.02	6759.65	-154.62	6759.61	-152.79	6759.57	-150.92	6759.52
-148.88	6759.49	-148.7	6759.48	-146.16	6759.45	-145.29	6759.42	-144.01	6759.35
-141.92	6759.26	-140.71	6759.2	-140.23	6759.22	-138.87	6759.25	-136.3	6759.33
-135.6	6759.32	-133.45	6759.32	-130.5	6759.29	-130.07	6759.22	-129.87	6759.22
-128.37	6759.01	-125.39	6758.61	-123.44	6758.55	-122.45	6758.53	-120.87	6758.48
-118.04	6758.43	-117.02	6758.42	-116.52	6758.44	-114.45	6758.44	-111.44	6758.42
-110.59	6758.39	-110.59	6758.41	-109.74	6758.38	-106.73	6758.23	-104.98	6758.13
-103.82	6758.15	-100.43	6758.17	-97.74	6758.15	-95.79	6758.15	-94.77	6758.14
-92.6	6758.07	-91.31	6758.02	-89.66	6757.94	-88.25	6757.82	-87.46	6757.74
-84.56	6757.49	-82.65	6757.14	-79.45	6756.54	-78.46	6756.93	-76.39	6757.72
-75.89	6757.92	-74.35	6758.51	-74.18	6758.54	-72.03	6759.01	-71.64	6759.11
-70.26	6759.42	-69.24	6759.66	-65.61	6759.84	-64.32	6759.89	-63.43	6759.88
-60.47	6759.81	-59.03	6759.77	-58.47	6759.77	-54.7	6759.71	-53.86	6759.68
-52.75	6759.68	-51.32	6759.65	-49.62	6759.63	-48.9	6759.61	-47.8	6759.61
-46.33	6759.59	-44.74	6759.59	-43.57	6759.58	-39.64	6759.5	-37.59	6759.49
-37.33	6759.5	-36.05	6759.5	-33.48	6759.52	-31.84	6759.5	-30.99	6759.48
-29.62	6759.47	-28.68	6759.45	-26.76	6759.43	-25.76	6759.43	-24.48	6759.41
-23.19	6759.4	-21.91	6759.36	-20.62	6759.33	-19.34	6759.26	-18.05	6759.2
-16.15	6759.13	-14.2	6759.05	-13.21	6759.02	-11.52	6758.92	-10.67	6758.86
-9.06	6758.77	-7.99	6758.67	-7.28	6758.46	-6.97	6758.33	-5.59	6757.9
-2.88	6757.04	-1.86	6757.19	-1.36	6757.08	-1.34	6757.26	.34	6757.01
2.22	6756.74	4.57	6757.77	5.28	6758.09	6.37	6758.54	7.33	6758.95
9.37	6759.23	10.39	6759.36	10.5	6759.39	11.51	6759.52	12.19	6759.7
12.43	6759.73	14.47	6759.77	15.49	6759.78	17.27	6759.81	19.58	6759.93
22.64	6760.11	24.89	6760.32	27.75	6760.57	28.77	6760.64	30.89	6760.8
32.85	6760.9	34.21	6760.9	34.64	6760.91	37.95	6760.91	39.29	6760.89
40.14	6760.89	41.83	6760.87	43.06	6760.87	43.52	6760.89	43.64	6760.85
45.22	6760.91	45.78	6760.94	48.16	6761.04	50.21	6761.03	51.35	6761

53.27	6760.97	54.53	6761	55.38	6761.01	56.23	6761.04	57.92	6761.04
59.06	6761.06	60.67	6761.11	61.31	6761.12	62.46	6761.16	63.48	6761.17
66.77	6761.09	68.06	6761.05	68.93	6761.01	70.62	6760.95	73.16	6760.83
74.71	6760.78	74.85	6760.79	75.77	6760.75	76.55	6760.8	77.4	6760.81
78.79	6760.87	81.63	6760.9	82.48	6760.9	84.77	6760.93	85.5	6760.93
86.71	6760.95	88.62	6760.96	89.91	6760.99	91.19	6761.04	95.05	6761.17
95.13	6761.18	99.21	6761.32	101.48	6761.29	101.95	6761.3	104.05	6761.31
106.36	6761.34	107.38	6761.34	108.73	6761.36	109.57	6761.36	110.47	6761.33
112.11	6761.29	112.48	6761.27	114.33	6761.22	118.04	6761.11	119.47	6761.06
122.27	6761.1	123.12	6761.12	125.21	6761.15	127.18	6761.19	127.8	6761.18
129.05	6761.18	129.9	6761.17	131.04	6761.13	135.82	6760.94	138.01	6760.86
140.03	6760.78	140.9	6760.73	141.32	6760.69	142.09	6760.65	145.17	6760.44
146.83	6760.34	149.03	6760.19	151.91	6760.01	153.32	6759.91	153.61	6759.9
154.99	6759.8	156.99	6759.67	158.42	6759.6	160.6	6759.48	162.07	6759.44
163.17	6759.42	164.45	6759.38	165.74	6759.35	166.31	6759.3	166.59	6759.3
169.69	6759.12	170.88	6759.06	173.08	6759.01	173.93	6758.98	176.8	6758.91
177.31	6758.89	178.23	6758.9	184.1	6759.02	187.1	6759.07	187.26	6759.08
189.87	6759.05	192.11	6759.05	192.43	6759.04	195.68	6759.04	196.11	6759.03
198.59	6759.03	198.63	6759.02	200.11	6759.02	202.11	6758.98	205.11	6758.94
206.34	6758.91	207.94	6758.89	212.16	6758.76	213.1	6758.74	215.07	6758.67
218.27	6758.58	218.95	6758.54	220.12	6758.5	220.88	6758.49	222.41	6758.49
222.82	6758.48	224.76	6758.48	225.12	6758.47	227.12	6758.47	227.58	6758.46
229.13	6758.46	230.13	6758.45	232.52	6758.48	235.42	6758.53	237.36	6758.55
238.95	6758.58	240.13	6758.58	249.14	6758.96	250.14	6758.95	255.78	6759
258.14	6759.01	259.62	6759.03	259.66	6759.08	260.14	6759.09	261.69	6759.09
263.54	6759.11	264.79	6759.11	265.14	6759.12	266.44	6759.12	268.15	6759.14
270.32	6759.15	273.23	6759.23	276.16	6759.29	279.05	6759.32	280.15	6759.34
281.33	6758.8	283.89	6757.64	284.86	6757.19	286.16	6756.61	286.8	6756.31
288.16	6755.7	289.16	6755.24	289.6	6755.25	289.71	6754.99	290.68	6754.99
291.65	6754.95	293.59	6754.91	296.16	6754.84	296.49	6754.84	300.37	6754.75
302.31	6754.81	303.28	6754.85	306.19	6754.94	306.83	6754.97	310.28	6755.08
312.35	6755.02	315.45	6754.9	316.48	6754.87	318.79	6754.78	319.05	6755.67
319.06	6755.94	319.06	6755.95	373.05	6749.4	383.05	6747.22	400.05	6747.21
419.05	6747.36	428.83	6750.03	431.05	6750.64	436.55	6751.04	506.05	6756.05
543.05	6754.38	552.56	6761.95	555.55	6761.92	555.65	6761.91	557.38	6761.89
559.55	6761.9	560.86	6761.92	563.55	6761.94	567.56	6761.94	569.2	6761.88
570.24	6761.85	573.37	6761.73	574.41	6761.7	575.67	6761.7	577.59	6761.71
578.58	6761.67	579.62	6761.61	581.44	6761.53	581.7	6761.51	586.57	6761.28
587.22	6761.24	588.57	6761.19	589.57	6761.14	592.12	6761.04	595.25	6760.91
595.88	6760.86	597.58	6760.7	599.73	6760.57	600.7	6760.5	604.55	6760.26
604.63	6760.25	607.75	6760.06	608.8	6760.01	610.59	6759.94	611.59	6759.89
612.25	6759.87	615.05	6759.74	616.09	6759.7	617.6	6759.57	619.22	6759.63
620.91	6759.68	622.34	6759.73	623.8	6759.79	625.47	6759.84	626.51	6759.88
627.55	6759.95	630.54	6759.92	630.61	6759.91	632.16	6759.9	632.16	6755.23
645.98	6755.25	657.27	6755.27	825.44	6758				

Manning's n Values num= 5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-362.02	.1	-162.24	.016	-25.76	.05	319.05	.04	506.05	.05

Bank Sta: Left Right Coeff Contr. Expan.
319.05 506.05 .3 .5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-362.02	-70	6758	T

Downstream Deck/Roadway Coordinates num= 5

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
232.09	6756.08	6755.08			284	6757.36	6756.36			317	6757.83	6756.83		
374	6757.27	6756.27			419	6756.04	6755.04							

Downstream Bridge Cross Section Data Station Elevation Data num= 496

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-344	6780.26	-339.96	6760.38	-338.72	6760.49	-337.95	6760.54	-336.53	6760.65
-336.38	6760.67	-334.94	6760.78	-333.94	6760.82	-331.93	6760.93	-329.98	6761.05
-326.17	6761.01	-321.9	6760.97	-320.9	6760.97	-319.67	6760.95	-318.75	6760.95
-312.25	6760.88	-311.32	6760.88	-308.86	6760.85	-308.14	6760.85	-307.05	6760.83
-303.84	6760.8	-302.84	6760.8	-297.4	6760.74	-296.48	6760.74	-293.95	6760.71
-292.26	6760.7	-290.67	6760.68	-289.58	6760.68	-288.12	6760.69	-287.79	6760.7

-286.27	6760.71	-285.21	6760.73	-284.41	6760.73	-283.03	6760.71	-277.57	6760.66
-276.06	6760.64	-275.13	6760.64	-269.73	6760.58	-255.65	6760.58	-252.45	6760.55
-251.01	6760.54	-248.66	6760.51	-247.66	6760.51	-245.65	6760.49	-244.65	6760.51
-242.62	6760.58	-241.53	6760.63	-240.8	6760.65	-239.63	6760.7	-238.94	6760.7
-236.07	6760.65	-234.98	6760.64	-231.7	6760.55	-230.61	6760.51	-229.66	6760.49
-227.34	6760.34	-226.88	6760.3	-225.58	6760.22	-224.58	6760.15	-222.97	6760.08
-219.56	6759.95	-218.6	6759.94	-217.51	6759.94	-215.74	6759.92	-214.82	6759.92
-213.14	6759.9	-209.53	6759.9	-206.59	6759.8	-204.41	6759.72	-203.68	6759.7
-202.22	6759.64	-200.5	6759.59	-199.5	6759.55	-196.26	6759.55	-195.67	6759.56
-191.3	6759.56	-190.69	6759.55	-189.47	6759.55	-188.46	6759.51	-187.91	6759.5
-186.98	6759.46	-185.84	6759.43	-184.45	6759.35	-182.34	6759.28	-181.47	6759.26
-180.48	6759.22	-178.63	6759.18	-178.2	6759.16	-177.43	6759.15	-175.42	6759.1
-174.92	6759.08	-174.42	6759.09	-173.06	6759.04	-172.74	6759.04	-171.2	6758.99
-169.46	6758.95	-165.63	6758.99	-164	6759.01	-163.38	6759.01	-161.92	6759.03
-161.37	6759.03	-159.37	6759.06	-156.36	6758.98	-155.43	6758.96	-153.57	6758.9
-153.35	6758.9	-151.72	6758.85	-149.81	6758.8	-149.33	6758.78	-146.53	6758.83
-145.44	6758.84	-141.07	6758.92	-139.3	6758.96	-138.89	6758.94	-137.29	6758.9
-136.29	6758.86	-135.01	6758.83	-134.28	6758.8	-133.43	6758.78	-132.34	6758.74
-130.15	6758.68	-129.27	6758.65	-126.88	6758.72	-126.26	6758.73	-123.88	6758.8
-122.02	6758.86	-121.42	6758.87	-119.26	6758.94	-117.38	6758.89	-115.96	6758.84
-111.21	6758.71	-110.89	6758.71	-109.41	6758.66	-108.1	6758.63	-106.9	6758.59
-104.19	6758.52	-103.18	6758.48	-101.76	6758.44	-100.17	6758.38	-99.17	6758.35
-93.03	6758.35	-92.33	6758.34	-90.84	6758.34	-89.54	6758.33	-88.13	6758.3
-85.12	6758.21	-84.9	6758.21	-83.05	6758.15	-80.11	6758.09	-78.83	6758.06
-76.09	6757.96	-75.56	6757.95	-74.09	6757.9	-72.28	6757.83	-71.19	6757.8
-70.1	6757.75	-66.06	6757.58	-64.64	6757.51	-63.05	6757.45	-62.05	6757.4
-60.78	6757.36	-60.27	6757.33	-59.04	6757.32	-58.08	6757.53	-53.35	6758.75
-52.42	6758.98	-50.01	6759.61	-49	6759.86	-42.99	6759.86	-42.8	6759.85
-38.97	6759.85	-37.58	6759.82	-34.79	6759.73	-33.87	6759.71	-32.76	6759.67
-31.88	6759.65	-30.15	6759.59	-28.94	6759.56	-26.93	6759.57	-25.51	6759.59
-24.23	6759.6	-23.14	6759.6	-22.92	6759.61	-21.8	6759.61	-20.4	6759.63
-19.02	6759.64	-16.9	6759.56	-15.5	6759.52	-14.41	6759.48	-11.13	6759.39
-9.74	6759.34	-8.95	6759.32	-8.81	6759.3	-5.86	6758.6	1.16	6756.78
5.11	6757.52	5.25	6757.54	6.04	6757.77	6.34	6757.84	8.18	6758.35
10.71	6759.03	11.19	6759.17	11.6	6759.21	15.08	6759.62	15.32	6759.63
16.24	6759.75	17.17	6759.77	18.35	6759.82	19.44	6759.85	20.88	6759.9
21.23	6759.92	22.23	6759.93	24.6	6759.98	26.24	6760	26.45	6760.02
27.09	6760.02	29.27	6760.12	31.26	6760.22	32.55	6760.22	32.95	6760.21
35.82	6760.21	36.27	6760.2	38.28	6760.2	41.39	6760.17	43.3	6760.27
45.94	6760.39	46.87	6760.42	49.32	6760.52	50.58	6760.56	51.11	6760.59
52.2	6760.6	57.66	6760.6	58	6760.61	61.71	6760.61	62.36	6760.59
63.36	6760.58	64.5	6760.55	65.43	6760.54	67.28	6760.5	69.67	6760.46
70.39	6760.44	71.39	6760.43	72.95	6760.49	73.78	6760.51	74.4	6760.54
80.27	6760.73	80.59	6760.75	83.43	6760.83	83.87	6760.85	85.84	6760.9
87.7	6760.96	88.62	6760.98	91.41	6761.07	92.6	6761.07	94.19	6761.03
96.97	6760.95	98.06	6760.93	99.76	6760.88	101.34	6760.84	103.17	6760.77
103.47	6760.75	104.4	6760.76	105.71	6760.76	106.26	6760.77	107.89	6760.77
108.11	6760.78	109.97	6760.78	110.08	6760.79	113.53	6760.79	117.39	6760.75
118.32	6760.75	119.55	6760.73	121.1	6760.72	122.96	6760.68	124.81	6760.62
125.74	6760.6	126.46	6760.57	127.55	6760.54	131.59	6760.4	133.59	6760.53
134.6	6760.59	136.28	6760.71	140.65	6760.94	141.62	6761	143.63	6761
143.93	6761.01	148.64	6761.01	149.87	6760.99	151.57	6760.98	154.51	6760.76
155.44	6760.68	155.94	6760.65	157.67	6760.51	158.22	6760.45	158.68	6760.42
161.69	6760.11	164.67	6759.97	166.7	6759.81	167.51	6759.76	170.15	6759.76
174.36	6759.46	174.96	6759.47	175.15	6759.45	178.16	6759.42	178.28	6759.41
180.16	6759.39	184.16	6759.04	187.23	6758.83	189.05	6758.72	190.16	6758.64
191.32	6758.6	192.34	6758.55	194.39	6758.47	194.92	6758.46	196.43	6758.4
198.16	6758.35	198.48	6758.33	200.16	6758.28	201.54	6758.29	202.75	6758.29
203.73	6758.3	205.69	6758.29	209.16	6758.26	210.75	6758.26	212.16	6758.27
214.5	6758.3	216.88	6758.31	218.16	6758.33	219.4	6758.33	223.31	6758.37
224.04	6758.34	226.25	6758.29	228.13	6758.23	229.19	6758.21	230	6758.18
232.23	6758.15	233.08	6758.13	235.02	6758.15	236.37	6758.15	237.92	6758.17
239.17	6758.17	240.17	6758.18	242.75	6758.1	244.18	6758.1	245.7	6758.09
247.59	6758.07	248.81	6758.07	250.18	6758.06	250.88	6758.02	252.18	6757.97
252.42	6757.95	252.96	6757.98	253.18	6757.97	254.36	6757.98	255.32	6758
257.26	6758.02	258.14	6758.04	259.19	6758.05	260.19	6758.07	261.13	6757.91
266.43	6757.03	266.92	6755.75	267.58	6755.87	312.69	6750.93	313.92	6750.8
314.55	6750.71	334.87	6747.75	335.92	6747.6	336.79	6747.59	348.92	6747.41
368.59	6747.67	369.92	6747.69	370.62	6747.93	379.27	6750.88	380.92	6751.44
381.33	6751.51	407.92	6756.2	452.97	6758.16	453.92	6758.2	454.65	6758.39
457.63	6759.14	459.45	6759.01	460.87	6758.92	461.37	6758.92	462.33	6758.89

462.96	6758.89	465.21	6758.85	465.63	6758.85	467.13	6758.82	467.64	6758.82
470.64	6758.61	470.98	6758.62	471.32	6758.56	472.64	6758.59	475.78	6758.64
477.7	6758.68	478.64	6758.64	480.73	6758.58	482.82	6758.5	483.86	6758.47
485.95	6758.39	487	6758.36	487.65	6758.33	488.26	6758.49	491.66	6759.41
492.1	6759.44	492.23	6759.56	493.66	6759.67	497.66	6759.95	498.82	6760.08
499.54	6760.15	500.59	6760.27	502.68	6760.49	505.54	6761.23	507.67	6761.77
508.67	6761.81	512.09	6761.91	513.13	6761.95	517.06	6762.03	517.68	6762.05
518.68	6762.03	520.45	6762.02	521.5	6762	522.69	6761.99	522.82	6762
523.59	6761.98	524.74	6762.01	527.62	6762.1	529.54	6762.08	529.69	6762.07
530.9	6762.06	531.95	6762.04	533.7	6762.02	535.3	6761.99	537.7	6761.96
539.14	6761.95	541.7	6761.95	542.02	6761.94	544.9	6761.94	546.71	6761.96
546.82	6761.97	544.5	6762.05	557.72	6762.05	559.72	6761.93	560.72	6761.88
563.14	6761.74	565.4	6761.62	566.73	6761.58	566.93	6761.58	567.73	6761.56
568.53	6761.5	570.83	6761.36	573.37	6761.2	574.79	6761.1	575.83	6761.04
576.6	6761.12	576.88	6761.13	577.92	6761.21	578.74	6761.23	579.74	6761.27
583.34	6761.38	584.18	6761.4	585.22	6761.44	585.74	6761.45	586.22	6761.33
586.26	6761.47	587.74	6761.11	588.35	6760.93	591.03	6760.16	592.75	6759.66
593.75	6759.38	594.88	6759.05	596.8	6758.5	597.74	6758.31	599.69	6758.57
599.82	6758.58	603.99	6759.14	604.5	6759.2	606.42	6759.46	607.76	6759.63
609.21	6759.64	610.25	6759.66	610.76	6759.66	611.76	6759.68	613.16	6759.69
614.12	6759.71	614.77	6759.71	616.51	6759.74	617.55	6759.75	618.93	6759.71
620.68	6759.64	622.88	6759.57	623.74	6759.53	625.66	6759.46	626.83	6759.46
805.6	6758								

Manning's n Values num= 6

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-344	.1	-229.66	.05	-119.26	.016	-8.95	.05	266.92	.04
453.92	.05								

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	266.92	453.92	.3	.5

Upstream Embankment side slope	=	0 horiz. to 1.0 vertical
Downstream Embankment side slope	=	0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.95
Elevation at which weir flow begins	=	
Energy head used in spillway design	=	
Spillway height used in design	=	
Weir crest shape	=	Broad Crested

Number of Piers = 3

Pier Data

Pier Station	Upstream=	Downstream=
	326.43	281.09
Upstream num= 2		
Width Elev Width Elev		
1.8 6700 1.8 6800		
Downstream num= 2		
Width Elev Width Elev		
1.8 6700 1.8 6800		

Pier Data

Pier Station	Upstream=	Downstream=
	326.43	368.09
Upstream num= 2		
Width Elev Width Elev		
1.8 6700 1.8 6800		
Downstream num= 2		
Width Elev Width Elev		
1.8 6700 1.8 6800		

Pier Data

Pier Station	Upstream=	Downstream=
	413.43	
Upstream num= 2		
Width Elev Width Elev		
1.8 6700 1.8 6800		
Downstream num= 0		

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy
Selected Low Flow Methods = Energy

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 2517

INPUT

Description:

Station Elevation Data num= 496

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-344	6780.26	-339.96	6760.38	-338.72	6760.49	-337.95	6760.54	-336.53	6760.65
-336.38	6760.67	-334.94	6760.78	-333.94	6760.82	-331.93	6760.93	-329.98	6761.05
-326.17	6761.01	-321.9	6760.97	-320.9	6760.97	-319.67	6760.95	-318.75	6760.95
-312.25	6760.88	-311.32	6760.88	-308.86	6760.85	-308.14	6760.85	-307.05	6760.83
-303.84	6760.8	-302.84	6760.8	-297.4	6760.74	-296.48	6760.74	-293.95	6760.71
-292.26	6760.7	-290.67	6760.68	-289.58	6760.68	-288.12	6760.69	-287.79	6760.7
-286.27	6760.71	-285.21	6760.73	-284.41	6760.73	-283.03	6760.71	-277.57	6760.66
-276.06	6760.64	-275.13	6760.64	-269.73	6760.58	-255.65	6760.58	-252.45	6760.55
-251.01	6760.54	-248.66	6760.51	-247.66	6760.51	-245.65	6760.49	-244.65	6760.51
-242.62	6760.58	-241.53	6760.63	-240.8	6760.65	-239.63	6760.7	-238.94	6760.7
-236.07	6760.65	-234.98	6760.64	-231.7	6760.55	-230.61	6760.51	-229.66	6760.49
-227.34	6760.34	-226.88	6760.3	-225.58	6760.22	-224.58	6760.15	-222.97	6760.08
-219.56	6759.95	-218.6	6759.94	-217.51	6759.94	-215.74	6759.92	-214.82	6759.92
-213.14	6759.9	-209.53	6759.9	-206.59	6759.8	-204.41	6759.72	-203.68	6759.7
-202.22	6759.64	-200.5	6759.59	-199.5	6759.55	-196.26	6759.55	-195.67	6759.56
-191.3	6759.56	-190.69	6759.55	-189.47	6759.55	-188.46	6759.51	-187.91	6759.5
-186.98	6759.46	-185.84	6759.43	-184.45	6759.35	-182.34	6759.28	-181.47	6759.26
-180.48	6759.22	-178.63	6759.18	-178.2	6759.16	-177.43	6759.15	-175.42	6759.1
-174.92	6759.08	-174.42	6759.09	-173.06	6759.04	-172.74	6759.04	-171.2	6758.99
-169.46	6758.95	-165.63	6758.99	-164	6759.01	-163.38	6759.01	-161.92	6759.03
-161.37	6759.03	-159.37	6759.06	-156.36	6758.98	-155.43	6758.96	-153.57	6758.9
-153.35	6758.9	-151.72	6758.85	-149.81	6758.8	-149.33	6758.78	-146.53	6758.83
-145.44	6758.84	-141.07	6758.92	-139.3	6758.96	-138.89	6758.94	-137.29	6758.9
-136.29	6758.86	-135.01	6758.83	-134.28	6758.8	-133.43	6758.78	-132.34	6758.74
-130.15	6758.68	-129.27	6758.65	-126.88	6758.72	-126.26	6758.73	-123.88	6758.8
-122.02	6758.86	-121.42	6758.87	-119.26	6758.94	-117.38	6758.89	-115.96	6758.84
-111.21	6758.71	-110.89	6758.71	-109.41	6758.66	-108.1	6758.63	-106.9	6758.59
-104.19	6758.52	-103.18	6758.48	-101.76	6758.44	-100.17	6758.38	-99.17	6758.35
-93.03	6758.35	-92.33	6758.34	-90.84	6758.34	-89.54	6758.33	-88.13	6758.3
-85.12	6758.21	-84.9	6758.21	-83.05	6758.15	-80.11	6758.09	-78.83	6758.06
-76.09	6757.96	-75.56	6757.95	-74.09	6757.9	-72.28	6757.83	-71.19	6757.8
-70.1	6757.75	-66.06	6757.58	-64.64	6757.51	-63.05	6757.45	-62.05	6757.4
-60.78	6757.36	-60.27	6757.33	-59.04	6757.32	-58.08	6757.53	-53.35	6758.75
-52.42	6758.98	-50.01	6759.61	-49	6759.86	-42.99	6759.86	-42.8	6759.85
-38.97	6759.85	-37.58	6759.82	-34.79	6759.73	-33.87	6759.71	-32.76	6759.67
-31.88	6759.65	-30.15	6759.59	-28.94	6759.56	-26.93	6759.57	-25.51	6759.59
-24.23	6759.6	-23.14	6759.6	-22.92	6759.61	-21.8	6759.61	-20.4	6759.63
-19.02	6759.64	-16.9	6759.56	-15.5	6759.52	-14.41	6759.48	-11.13	6759.39
-9.74	6759.34	-8.95	6759.32	-8.81	6759.3	-5.86	6758.6	1.16	6756.78
5.11	6757.52	5.25	6757.54	6.04	6757.77	6.34	6757.84	8.18	6758.35
10.71	6759.03	11.19	6759.17	11.6	6759.21	15.08	6759.62	15.32	6759.63
16.24	6759.75	17.17	6759.77	18.35	6759.82	19.44	6759.85	20.88	6759.9
21.23	6759.92	22.23	6759.93	24.6	6759.98	26.24	6760	26.45	6760.02
27.09	6760.02	29.27	6760.12	31.26	6760.22	32.55	6760.22	32.95	6760.21
35.82	6760.21	36.27	6760.2	38.28	6760.2	41.39	6760.17	43.3	6760.27
45.94	6760.39	46.87	6760.42	49.32	6760.52	50.58	6760.56	51.11	6760.59
52.2	6760.6	57.66	6760.6	58	6760.61	61.71	6760.61	62.36	6760.59
63.36	6760.58	64.5	6760.55	65.43	6760.54	67.28	6760.5	69.67	6760.46

-209.02	6780.38	-208.09	6760.53	-206.25	6760.49	-205.09	6760.47	-204.09	6760.44
-201.26	6760.38	-200.26	6760.37	-199.08	6760.37	-198.26	6760.36	-195.26	6760.39
-195.08	6760.4	-190.27	6760.45	-189.07	6760.45	-188.27	6760.46	-187.27	6760.45
-186.07	6760.45	-185.27	6760.44	-184.07	6760.44	-183.28	6760.43	-182.06	6760.43
-181.28	6760.42	-179.28	6760.44	-178.06	6760.44	-177.28	6760.46	-176.06	6760.47
-175.28	6760.49	-173.28	6760.51	-173.17	6760.52	-171.29	6760.54	-171.17	6760.55
-170.29	6760.54	-168.17	6760.54	-168.05	6760.53	-164.29	6760.46	-163.05	6760.43
-162.17	6760.42	-160.3	6760.37	-160.04	6760.37	-158.3	6760.32	-157.04	6760.31
-155.3	6760.28	-153.3	6760.26	-153.17	6760.25	-151.17	6760.23	-149.17	6760.09
-149.03	6760.09	-148.03	6760.02	-142.31	6759.68	-141.17	6759.62	-140.17	6759.62
-140.02	6759.63	-139.02	6759.63	-138.32	6759.64	-135.32	6759.61	-134.32	6759.61
-134.17	6759.6	-133.17	6759.6	-133.02	6759.59	-132.02	6759.59	-128.33	6759.55
-126.17	6759.55	-126.01	6759.56	-123.01	6759.56	-122.33	6759.57	-121.01	6759.57
-120.34	6759.55	-119.17	6759.53	-118	6759.52	-117.17	6759.5	-116	6759.49
-113.17	6759.44	-111	6759.42	-109	6759.44	-108.35	6759.46	-105.99	6759.48
-102.99	6759.51	-101.99	6759.53	-100.99	6759.53	-100.35	6759.52	-98.99	6759.48
-98.17	6759.47	-97.17	6759.44	-95.36	6759.41	-94.36	6759.38	-93.98	6759.38
-92.98	6759.35	-91.98	6759.33	-90.98	6759.32	-88.98	6759.34	-86.17	6759.39
-85.17	6759.4	-81.17	6759.47	-80.97	6759.45	-79.97	6759.4	-78.97	6759.33
-78.37	6759.3	-77.17	6759.17	-75.38	6758.99	-75.17	6758.96	-73.38	6758.78
-73.17	6758.75	-71.38	6758.57	-71.17	6758.54	-69.96	6758.58	-66.39	6758.72
-65.39	6758.77	-65.17	6758.77	-63.95	6758.83	-62.39	6758.89	-61.17	6758.95
-58.39	6758.84	-50.94	6758.84	-48.4	6758.87	-47.4	6758.87	-47.17	6758.88
-44.93	6758.88	-44.41	6758.89	-41.93	6758.89	-41.17	6758.9	-38.93	6758.86
-38.41	6758.86	-36.93	6758.83	-34.42	6758.8	-34.17	6758.79	-31.17	6758.79
-29.17	6758.85	-27.92	6758.88	-25.42	6758.91	-23.91	6758.94	-22.17	6758.96
-21.17	6758.98	-20.17	6758.98	-18.43	6758.94	-17.17	6758.91	-15.91	6758.87
-15.17	6758.86	-13.44	6758.81	-13.17	6758.81	-11.44	6758.76	-10.9	6758.76
-8.44	6758.8	-7.44	6758.83	-6.44	6758.87	-6.17	6758.87	-4.9	6758.92
-4.44	6758.93	-1.45	6759.04	-0.89	6759.05	1.55	6759.05	4.83	6759.15
5.11	6759.15	7.83	6759.24	9.12	6759.27	16.6	6759.27	17.23	6759.26
20.78	6759.26	22.22	6759.32	23.67	6759.37	24.3	6759.4	25.72	6759.45
26.3	6759.48	29.07	6759.58	30.89	6759.66	31.37	6759.67	33.23	6759.75
34.2	6759.78	35.62	6759.84	36.32	6759.85	37.03	6759.82	37.74	6759.82
38.11	6759.8	39.15	6759.79	39.56	6759.77	40.57	6759.76	41	6759.74
41.98	6759.73	42.93	6759.7	43.4	6759.71	44.1	6759.68	44.81	6759.68
45.52	6759.65	46.23	6759.65	46.93	6759.62	47.64	6759.62	48.35	6759.59
49.06	6759.59	49.85	6759.56	51.88	6759.5	52.56	6759.47	53.3	6759.46
54.26	6759.42	56.13	6759.37	56.78	6759.34	57.54	6759.33	59.78	6759.25
60.37	6759.24	61.08	6759.21	61.79	6759.2	63.71	6759.13	64.62	6759.12
65.32	6759.08	66.03	6759.07	68.45	6758.98	70.27	6758.93	70.64	6758.91
73.1	6758.84	73.41	6758.82	74.22	6758.8	75.22	6758.76	77.57	6758.69
78.56	6758.51	78.96	6758.42	81.73	6757.76	82.89	6757.49	83.11	6757.43
84.34	6757.15	85.78	6756.8	86.54	6756.63	87.27	6756.45	88.66	6756.13
90.78	6755.62	91.43	6755.47	93	6755.24	95.03	6755	95.73	6754.91
97.15	6754.75	97.34	6754.72	99.74	6754.44	101.67	6754.2	102.81	6754.07
105.28	6753.77	106.34	6753.77	106.67	6753.76	107.76	6753.76	108.89	6753.78
110.59	6753.79	110.83	6753.8	111.24	6754.01	111.84	6754.01	112.05	6753.98
113.23	6753.76	113.49	6753.72	115.73	6753.31	118.31	6752.86	119.72	6752.59
121.93	6752.19	122.55	6752.07	125.45	6751.54	126.07	6751.42	127.51	6751.39
129.62	6751.33	130.38	6751.32	131.68	6751.28	133.26	6751.28	133.87	6751.27
135.28	6751.27	135.85	6751.26	137.57	6751.26	137.94	6751.25	139.53	6751.25
140.44	6751.24	143.32	6751.12	143.77	6751.11	145.6	6751.03	148.38	6751.31
149.78	6751.44	150.5	6751.52	154.81	6751.94	155.08	6752	157.21	6752.42
157.69	6752.51	159.33	6752.84	160.03	6752.95	161.45	6753.14	163.57	6753.44
164.28	6753.53	167.75	6754.02	167.88	6754.03	169.18	6754.22	169.27	6754.22
173.45	6754.52	177.01	6754.57	177.81	6754.57	180.54	6754.61	181.25	6754.61
183.19	6754.64	187.37	6754.64	189.74	6754.84	190.44	6754.89	191.55	6754.99
192.94	6755.1	193.98	6755.19	194.33	6755.21	195.72	6755.33	197.12	6755.44
197.52	6755.48	199.64	6755.63	200.8	6755.7	201.29	6755.74	204.08	6755.65
206	6755.58	206.55	6755.57	209.42	6755.47	209.65	6755.47	212.3	6755.38
213.74	6755.31	215.17	6755.23	217.32	6755.25	218.73	6755.25	223.57	6755.29
225.1	6755.29	225.23	6755.3	226.67	6755.3	227.22	6755.33	229.14	6755.4
230.75	6755.4	230.98	6755.39	232.87	6755.39	233.32	6755.38	235.29	6755.38
235.7	6755.37	237.49	6755.37	237.83	6755.36	239.95	6755.36	240.28	6755.35
241.67	6755.35	242.48	6755.32	243.06	6755.28	244.46	6755.28	244.9	6755.27
246.31	6755.27	246.79	6755.26	248.63	6755.26	249.14	6755.25	249.85	6755.44
251.42	6755.84	252.81	6756.21	253.38	6756.35	254.2	6756.57	255.41	6756.88
256.21	6757.07	256.85	6757.35	257.63	6757.71	258.29	6758	260.46	6758.98
261.31	6759.37	263.28	6760.26	264.7	6760.28	265.41	6760.28	268.13	6760.32
269.78	6760.33	271.06	6760.39	271.77	6760.39	272.48	6760.41	273.19	6760.41

273.89	6760.43	274.09	6760.42	276.48	6760.45	276.72	6760.47	277.43	6760.46
278.14	6760.49	278.41	6760.47	282.05	6760.52	282.38	6760.54	283.09	6760.53
283.79	6760.56	284.15	6760.54	285.21	6760.54	285.59	6760.53	286.62	6760.53
287.03	6760.52	288.04	6760.52	288.47	6760.51	289.45	6760.51	298.76	6760.44
299.35	6760.47	300.15	6760.49	300.77	6760.52	301.4	6760.53	302.18	6760.57
302.84	6760.58	303.59	6760.62	304.27	6760.63	305.01	6760.67	306.02	6760.69
306.42	6760.72	307.15	6760.73	307.84	6760.77	308.59	6760.78	309.25	6760.82
310.02	6760.83	310.67	6760.87	311.46	6760.88	312.68	6760.93	313.5	6760.89
314.07	6760.9	314.91	6760.87	315.77	6760.87	316.32	6760.84	316.86	6760.85
317.74	6760.82	318.45	6760.82	319.15	6760.79	319.64	6760.8	320.57	6760.77
321.27	6760.77	321.98	6760.74	322.96	6760.74	323.4	6760.72	324.39	6760.71
324.81	6760.69	325.52	6760.69	326.22	6760.66	326.61	6760.67	327.64	6760.67
331.58	6760.56	331.88	6760.56	333.02	6760.52	334.45	6760.49	334.96	6760.47
336.83	6760.43	337.33	6760.41	338.76	6760.38	339.66	6760.35	341.08	6760.32
344.51	6760.2	344.71	6760.2	347.49	6760.1	349.56	6760.04	350.26	6760.01
351.67	6759.97	351.7	6759.96	353.06	6759.92	354.45	6759.87	356.01	6759.76
357.45	6759.69	358.05	6759.67	359.46	6759.6	360.32	6759.57	361.76	6759.5
362.81	6759.46	364.63	6759.38	365.12	6759.35	368.38	6759.21	370.07	6759.17
373.26	6759.13	374.31	6759.11	375.02	6759.11	377.14	6759.08	378.12	6759.06
379.26	6759.05	381.88	6759.01	384.21	6759.01	385.09	6759.02	385.63	6759.01
388.46	6759.01	389.06	6759	391.29	6759	391.94	6758.99	394.12	6758.99
394.81	6758.98	396.25	6758.98	397.62	6759	399.12	6759.01	400.4	6759.05
401.79	6759.08	402.6	6759.11	404.02	6759.14	404.87	6759.17	405.97	6759.19
408.26	6759.26	409.67	6759.29	410.15	6759.31	412.5	6759.32	412.93	6759.33
413.92	6759.33	414.33	6759.32	415.33	6759.32	417.81	6759.29	418.87	6759.29
420.68	6759.25	421.7	6759.24	424.07	6759.19	426.65	6759.01	428.06	6758.93
429.64	6758.91	431.03	6758.88	433.62	6758.84	435.05	6758.81	436.05	6758.81

Manning's n Values	num=	5							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-209.02	.1	-151.17	.016	77.57	.05	99.74	.04	173.45	.05
Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.		
99.74	173.45	191.29	191.29	191.29		.1	.3		

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 2103

INPUT

Description:

Station Elevation Data	num=	490							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-214.25	6759.39	-213.63	6759.39	-212.41	6759.36	-211.53	6759.49	-211.39	6759.49
-210.49	6759.45	-210.01	6759.41	-209.86	6759.34	-209.21	6759.27	-208.5	6759.12
-208.34	6759.1	-207.62	6759.07	-207.34	6759.05	-206.3	6758.99	-206.02	6758.96
-205.3	6758.92	-203.77	6758.82	-203.63	6758.8	-202.83	6758.75	-201.78	6758.75
-200.73	6758.79	-199.63	6758.82	-198.43	6758.87	-197.68	6758.89	-196.44	6758.94
-195.07	6758.99	-193.72	6759.03	-193.11	6759.06	-191.71	6759.1	-191.59	6759.11
-190.58	6759.15	-190.05	6759.04	-189.53	6758.94	-188.36	6758.77	-187.44	6758.65
-187.02	6758.63	-186.86	6758.64	-186.39	6758.63	-185.5	6758.63	-185.34	6758.64
-184.46	6758.64	-184.3	6758.65	-183.67	6758.65	-183.25	6758.66	-182.07	6758.66
-181.15	6758.68	-180.47	6758.71	-180.11	6758.72	-179.67	6758.67	-179.06	6758.61
-178.87	6758.62	-178.28	6758.56	-178.08	6758.55	-176.96	6758.61	-176.48	6758.68
-176.36	6758.68	-175.92	6758.73	-175.68	6758.77	-174.84	6758.88	-174.08	6758.91
-173.32	6758.96	-173.29	6758.97	-172.77	6759	-171.8	6759.03	-170.89	6759.08
-170.27	6759.09	-169.63	6759.12	-168.75	6759.1	-168.5	6759.1	-167.7	6759.08
-166.9	6759.05	-165.3	6759.01	-164.86	6758.99	-164.39	6758.98	-163.7	6758.86
-163.35	6758.79	-162.3	6758.77	-162.11	6758.8	-161.14	6758.88	-160.2	6759
-159.71	6759.07	-159.16	6759.14	-158.91	6759.14	-158.14	6759.16	-158.09	6759.17
-157.32	6759.19	-157.06	6759.19	-156.57	6759.21	-156.52	6759.19	-156.01	6759.21
-155.05	6759.22	-153.52	6759.22	-153.33	6759.21	-152.87	6759.21	-152	6759.19
-151.73	6759.19	-150.93	6759.17	-150.48	6759.17	-150.13	6759.16	-149.73	6759.16
-148.96	6759.14	-147.43	6759.14	-146.94	6759.15	-145.34	6759.15	-144.71	6759.16
-143.44	6759.16	-142.87	6759.18	-141.36	6759.24	-140.55	6759.26	-139.82	6759.29
-138	6759.35	-137.36	6759.34	-134.16	6759.34	-133.73	6759.33	-133.36	6759.34
-132.97	6759.34	-132.57	6759.33	-131.77	6759.33	-131.28	6759.32	-127.64	6759.32
-126.18	6759.17	-126.12	6759.17	-125.38	6759.09	-124.57	6759.13	-123.54	6759.22
-123.07	6759.27	-122.99	6759.4	-122.49	6759.42	-121.39	6759.35	-120.85	6759.35

-120.85	6756.82	-119.85	6756.75	-119.85	6759.09	-119.35	6759.09	-118.5	6759.13
-118.19	6759.15	-117.86	6759.12	-116.98	6759.07	-116.6	6759.14	-116.21	6759.09
-115.8	6759.09	-115.46	6759.1	-113.45	6759.1	-113.45	6756.22	-113.09	6756.2
-112.45	6756.14	-112.45	6759.05	-111.81	6759.05	-111.14	6759.03	-110.89	6759.03
-109.92	6759	-109.41	6758.99	-109.37	6758.98	-107.02	6758.92	-106.78	6758.91
-105.73	6758.89	-103.82	6758.83	-101.75	6758.78	-101.07	6758.76	-100.63	6758.74
-100.23	6758.74	-99.83	6758.73	-99.03	6758.73	-98.4	6758.71	-97.35	6758.69
-96.64	6758.69	-96.3	6758.68	-95.84	6758.68	-95.66	6758.67	-95.04	6758.67
-93.44	6758.65	-93.16	6758.64	-92.62	6758.64	-90.25	6758.61	-90.02	6758.61
-88.97	6758.59	-88.05	6758.58	-87.64	6758.58	-87.06	6758.57	-86.87	6758.59
-86.53	6758.77	-86.26	6758.72	-85.83	6758.99	-85.46	6759.18	-85	6759.19
-84.78	6759.29	-83.06	6759.16	-82.68	6759.14	-81.96	6759.09	-80.67	6758.99
-80.43	6758.96	-79.07	6758.81	-78.91	6758.8	-77.39	6758.63	-76.4	6758.53
-75.35	6758.41	-75.08	6758.37	-73.48	6758.11	-72.82	6758	-72.69	6758
-72.21	6757.92	-70.86	6757.74	-69.07	6757.49	-67.1	6757.23	-65.92	6757.07
-64.88	6756.92	-64.14	6756.75	-63.69	6756.63	-61.73	6756.16	-61.51	6756.1
-60.79	6755.93	-59.91	6755.71	-59.64	6755.65	-58.31	6755.32	-57.43	6755.11
-56.72	6754.91	-56.49	6754.86	-55.45	6754.59	-54.4	6754.31	-53.52	6754.38
-52.72	6754.43	-51.5	6754.52	-50.21	6754.62	-49.98	6754.63	-49.53	6754.67
-49.16	6754.69	-47.07	6754.84	-46.34	6754.9	-44.97	6754.99	-44	6755.07
-43.92	6755.07	-42.37	6754.53	-42.35	6754.6	-41.83	6754.4	-41.61	6752.75
-40.86	6752.53	-39.56	6752.17	-38.79	6751.95	-38.08	6751.74	-37.38	6751.5
-36.67	6751.25	-35.96	6751.01	-35.52	6750.99	-33.46	6750.88	-32.82	6750.82
-32.42	6750.77	-31.97	6750.73	-30.13	6750.54	-28.88	6750.42	-28.17	6750.43
-26.1	6750.49	-25.34	6750.51	-24.73	6750.52	-23.53	6750.68	-23.39	6750.69
-22.51	6750.81	-22.04	6750.86	-21.8	6750.9	-21.09	6750.98	-20.69	6751.04
-20.38	6751.07	-20.04	6751.12	-19.67	6751.16	-19.35	6751.21	-18.97	6751.25
-18.54	6751.31	-17.05	6751.61	-15.55	6751.92	-15.31	6751.96	-14.72	6752.08
-13.97	6752.24	-13.3	6752.37	-11.89	6752.66	-11.28	6752.78	-11.07	6752.79
-9.93	6752.81	-8.08	6752.85	-6.93	6752.88	-6.58	6752.88	-5.51	6752.91
-5.09	6752.91	-4.55	6752.93	-3.59	6752.95	-2.68	6752.86	-1.86	6752.79
-.51	6752.66	.83	6752.54	.89	6752.53	2.18	6752.42	3.52	6752.42
3.69	6752.43	4.87	6752.43	5.11	6752.44	6.21	6752.44	6.52	6752.45
7.94	6752.45	8.36	6752.46	9.36	6752.46	9.85	6752.47	10.77	6752.47
11.48	6752.48	11.61	6752.49	12.82	6752.53	13.6	6752.55	14.31	6752.58
14.45	6752.58	15.67	6752.62	16.44	6752.72	17.28	6752.84	17.85	6752.91
19.27	6753.1	19.97	6753.19	20.68	6753.29	21.39	6753.38	22.1	6753.48
23.22	6753.62	24.22	6753.76	24.93	6753.85	25.64	6753.95	26.19	6754.02
27.05	6754.23	28.47	6754.57	29.19	6754.75	29.53	6754.76	30.54	6754.81
30.65	6754.82	31.89	6754.88	32.72	6754.91	33.63	6754.96	34.59	6755
34.84	6755.02	35.94	6755.07	36.26	6755.08	36.97	6755.12	37.29	6755.13
38.63	6755.2	39.8	6755.25	40.51	6755.29	41.08	6755.31	41.92	6755.22
42.57	6755.14	43.34	6755.09	44.75	6755.01	46.17	6754.92	48.07	6754.81
48.29	6754.78	48.54	6754.78	49.42	6754.73	49.71	6754.69	50.03	6754.69
50.77	6754.65	51.12	6754.61	51.52	6754.6	52.12	6754.57	52.54	6754.52
53.01	6754.51	53.47	6754.49	53.96	6754.43	54.5	6754.42	54.82	6754.4
55.37	6754.34	55.99	6754.33	56.16	6754.34	56.79	6754.4	57.48	6754.41
57.83	6754.43	58.2	6754.48	58.86	6754.49	59.62	6754.56	60.21	6754.57
61.04	6754.64	61.56	6754.65	62.45	6754.72	62.9	6754.73	63.45	6754.77
63.87	6754.81	64.25	6754.81	64.58	6754.83	65.29	6754.89	65.6	6754.89
65.99	6754.92	66.43	6754.94	66.7	6754.97	66.95	6754.97	68.29	6755.05
68.83	6755.09	69.64	6755.13	70.99	6755.09	71.7	6755.15	72.33	6755.21
72.4	6755.21	73.07	6755.27	74.49	6755.39	75.2	6755.44	78.03	6755.68
79.07	6755.77	79.86	6755.83	80.15	6755.86	81.57	6755.98	81.76	6755.99
82.28	6756.04	82.85	6756.08	83.11	6756.11	83.69	6756.3	85.5	6756.91
85.8	6757.02	86.53	6757.22	87.15	6757.4	87.94	6757.62	88.5	6757.77
90.07	6758.21	91.19	6758.53	91.81	6758.7	92.54	6758.91	93.88	6759.28
94.31	6759.41	95.02	6759.6	96.28	6759.96	96.58	6760.04	97.78	6760.08
97.92	6760.08	98.56	6760.11	100.62	6760.17	100.69	6760.18	101.39	6760.18
101.97	6760.19	102.81	6760.19	103.31	6760.2	104.23	6760.2	104.66	6760.21
105.24	6760.21	105.64	6760.22	106.73	6760.22	107.06	6760.23	107.77	6760.23
108.23	6760.24	109.18	6760.24	110.05	6760.25	111.21	6760.29	111.39	6760.29
112.7	6760.33	112.74	6760.34	114.09	6760.38	114.2	6760.38	115.44	6760.42
116.26	6760.45	117.18	6760.47	117.68	6760.49	118.39	6760.51	118.67	6760.51
119.1	6760.53	119.8	6760.55	120.82	6760.52	121.66	6760.5	124.05	6760.45
124.76	6760.45	124.86	6760.44	125.47	6760.44	128.9	6760.39	129.12	6760.39
130.25	6760.37	131.84	6760.37	132.11	6760.36	135.38	6760.36	135.64	6760.35
142.37	6760.35	142.46	6760.36	145.54	6760.36	146	6760.34	147.04	6760.31
147.42	6760.29	148.53	6760.26	149.54	6760.22	150.02	6760.21	150.46	6760.19
151.51	6760.13	152.37	6760.07	153.79	6759.98	154.5	6759.94	155.21	6759.89
156.62	6759.8	157.19	6759.76	157.33	6759.76	158.04	6759.71	158.75	6759.67

158.98 6759.65 159.88 6759.59 160.16 6759.58 160.87 6759.53 161.7 6759.48

Manning's n Values num= 4
Sta n Val Sta n Val Sta n Val Sta n Val
-214.25 .016 -84.78 .05 -41.61 .04 -11.28 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
-41.61 -11.28 96.09 96.09 96.09 .1 .3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 1790

INPUT

Description:

Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2.33	6756.55	2.65	6756.55	4	6756.47	4.29	6756.46	5.01	6756.42
5.28	6756.42	6.02	6756.38	6.27	6756.4	6.65	6756.38	7.03	6756.37
7.26	6756.38	7.65	6756.38	8.05	6756.41	8.25	6756.39	8.65	6756.41
9.06	6756.45	9.24	6756.44	10.07	6756.52	10.23	6756.53	11.08	6756.61
11.65	6756.66	12.21	6756.73	13.1	6756.83	13.2	6756.83	13.65	6756.89
14.19	6756.94	15.12	6757.02	15.65	6757.07	16.65	6757.17	17.15	6757.21
17.65	6757.26	18.14	6757.29	18.15	6757.3	18.65	6757.34	19.16	6757.37
19.65	6757.41	20.12	6757.44	20.17	6757.45	21.11	6757.51	21.65	6757.55
22.65	6757.59	23.09	6757.59	23.2	6757.61	23.65	6757.61	25.07	6757.64
25.23	6757.64	26.06	6757.66	26.65	6757.67	27.05	6757.71	27.25	6757.72
28.26	6757.82	29.03	6757.9	29.27	6757.93	30.02	6758.01	30.28	6758.03
31.65	6758.18	32.3	6758.27	34.32	6758.57	34.65	6758.61	34.97	6758.66
35.65	6758.75	35.96	6758.8	36.65	6758.89	37.65	6758.92	37.94	6758.95
38.36	6758.93	38.93	6758.99	39.37	6759.03	39.92	6759.09	40.38	6759.13
40.91	6759.19	41.4	6759.23	41.65	6759.26	42.41	6759.39	42.65	6759.44
43.65	6759.61	43.88	6759.64	44.43	6759.6	44.65	6759.62	45.44	6759.59
45.86	6759.57	46.65	6759.54	46.85	6759.45	47.46	6759.15	47.65	6759.05
48.29	6758.74	48.71	6758.52	48.83	6758.49	49.49	6758.29	49.74	6758.29
50.25	6758.38	50.27	6758.35	50.8	6758.46	51.06	6758.48	51.92	6758.64
52.62	6758.65	53.4	6758.71	53.99	6758.77	54.18	6758.83	54.69	6758.83
55.05	6758.87	55.26	6758.88	55.74	6759.02	56.12	6759.03	56.52	6759.21
56.93	6759.07	57.18	6759.15	57.3	6759.13	57.63	6759.11	58.08	6759.1
58.6	6759.1	58.86	6759.09	59.31	6759.09	59.64	6759.08	60.27	6759.07
61.2	6759.06	61.94	6759.03	61.98	6759.01	62.5	6759	62.76	6758.98
63.61	6758.83	64.33	6758.77	65.11	6758.69	65.27	6758.71	65.69	6758.68
66.42	6758.67	66.67	6758.66	67.45	6758.65	67.82	6758.65	69.01	6758.56
69.79	6758.49	69.95	6758.46	70.28	6758.42	70.57	6758.35	71.01	6758.3
71.35	6758.31	71.95	6758.4	72.07	6758.4	72.91	6758.52	73.14	6758.54
73.62	6758.54	73.69	6758.53	74.2	6758.54	74.47	6758.53	75.29	6758.53
76.33	6758.52	76.82	6758.51	77.6	6758.51	78.16	6758.5	78.63	6758.51
79.52	6758.54	79.94	6758.56	80.58	6758.58	81.97	6758.64	82.28	6758.64
82.71	6758.66	83.84	6758.7	84.62	6758.7	84.84	6758.71	85.4	6758.71
85.9	6758.72	86.96	6758.73	88.03	6758.72	88.53	6758.71	89.09	6758.71
89.31	6758.69	90.16	6758.69	90.87	6758.65	91.65	6758.63	92.29	6758.6
92.82	6758.57	93.21	6758.56	94.41	6758.5	95.76	6758.5	96.33	6758.49
97.11	6758.49	97.6	6758.48	98.69	6758.48	99.45	6758.46	105.05	6758.46
105.7	6758.43	106.11	6758.42	106.48	6758.4	108.04	6758.34	108.67	6758.31
109.31	6758.29	109.6	6758.27	110.34	6758.24	111.43	6758.21	112.5	6758.19
112.72	6758.18	113.51	6758.17	113.68	6758.12	114.29	6757.91	114.62	6757.81
115.07	6757.78	115.35	6758.02	115.85	6758.05	116.63	6757.86	116.75	6757.8
117.82	6757.48	118.19	6757.36	119.22	6757.05	119.94	6756.82	120.53	6756.64
121.31	6756.41	122.02	6756.19	124.2	6755.52	125.36	6755.17	126.32	6754.87
127.03	6754.72	127.56	6754.6	128.7	6754.35	129.12	6754.25	129.52	6754.17
129.9	6754.08	131.46	6753.74	132.24	6753.56	132.71	6753.46	133.02	6753.38
133.8	6753.21	134.83	6752.97	135.9	6752.73	136.14	6752.67	136.96	6752.48
137.7	6752.46	138.03	6752.44	138.49	6752.43	139.27	6752.4	140.05	6752.38
140.38	6752.36	141.22	6752.34	141.61	6752.32	142.05	6752.31	142.39	6752.29
143.17	6752.27	143.95	6752.24	144.41	6752.23	144.73	6752.21	145.62	6752.18
146.29	6752.17	147.06	6752.14	147.6	6752.13	147.85	6752.11	148.55	6752.14
148.73	6752.14	149.41	6752.09	149.73	6752.1	150.79	6752.05	150.9	6751.79
151.56	6751.74	151.68	6751.74	152.46	6751.7	152.63	6751.7	152.98	6751.66
153.24	6751.64	153.69	6751.59	155.58	6751.41	155.82	6751.38	156.36	6751.33

157.15	6751.25	158.34	6751.14	160.27	6750.94	161.05	6750.87	161.83	6750.78
162.2	6750.75	162.61	6750.7	163.26	6750.63	164.17	6750.61	164.33	6750.6
165.39	6750.57	166.67	6750.53	167.29	6750.53	167.52	6750.52	168.07	6750.52
170.42	6750.49	170.85	6750.49	171.21	6750.48	171.99	6750.48	172.55	6750.47
173.02	6750.47	173.55	6750.46	173.91	6750.46	174.33	6750.45	175.47	6750.45
175.88	6750.44	177.44	6750.44	178.02	6750.43	179.22	6750.43	179.69	6750.42
181.36	6750.42	182.12	6750.41	183.02	6750.41	183.34	6750.4	184.54	6750.4
185.6	6750.61	186.03	6750.7	186.36	6750.76	188.03	6751.1	188.37	6751.16
188.79	6751.25	189.7	6751.43	190.13	6751.52	190.92	6751.67	191.49	6751.79
191.99	6751.89	192.27	6751.94	193.04	6752.1	193.06	6752.1	193.83	6752.26
194.11	6752.31	194.61	6752.32	194.71	6752.43	195.18	6752.47	195.39	6752.54
195.99	6752.72	196.38	6752.83	197.74	6753.23	198.37	6753.41	198.52	6753.46
199.3	6753.69	200.08	6753.91	200.5	6754.04	200.86	6754.14	201.86	6754.44
202.62	6754.66	203.06	6754.72	203.2	6754.83	203.69	6754.86	203.98	6754.89
204.79	6754.94	205.81	6755.02	206.32	6755	206.88	6754.99	207.1	6754.98
207.72	6754.97	208.66	6754.94	209.44	6754.92	209.74	6754.92	210.23	6754.9
212.2	6754.85	212.57	6754.83	213.07	6754.82	214.13	6754.78	214.32	6754.78
214.74	6754.76	214.91	6754.76	215.69	6754.73	216.41	6754.71	217.25	6754.66
218.08	6754.62	218.81	6754.59	219.75	6754.53	221.15	6754.46	221.93	6754.41
222.39	6754.39	222.83	6754.36	223.09	6754.35	224.28	6754.29	225.06	6754.24
225.32	6754.23	226.03	6754.17	226.62	6754.13	227.09	6754.09	227.4	6754.04
228.1	6754.2	228.25	6754.19	228.96	6754.07	229.22	6754.13	229.74	6754.09
230.28	6754.06	230.52	6754.04	231.18	6754	231.44	6753.99	232.41	6753.93
233.11	6753.88	234.78	6753.78	235.2	6753.75	235.6	6753.73	235.98	6753.7
236.66	6753.66	237.05	6753.63	237.73	6753.59	238.79	6753.75	239.11	6753.79
240.67	6754.02	241.98	6754.22	242.23	6754.25	243.79	6754.48	244.11	6754.53
244.57	6754.68	244.79	6754.63	245.84	6754.91	246.13	6755	246.24	6755.01
246.91	6755.19	247.69	6755.39	248.37	6755.57	249.8	6755.6	250.49	6755.61
250.82	6755.61	251.47	6755.63	252.38	6755.64	252.62	6755.65	253.68	6755.67
253.94	6755.67	254.64	6755.69	255.5	6755.74	256.88	6755.83	257.57	6755.87
257.94	6755.9	259	6755.96	259.82	6756.25	260.18	6756.36	260.5	6756.48
261.13	6756.7	261.49	6756.82	261.74	6756.86	262.19	6757.03	262.52	6757.13
263.44	6757.39	264.83	6757.8	265.65	6758.03	266.37	6758.24	266.49	6758.28
268.16	6758.77	268.77	6758.94	269.64	6759.2	270.33	6759.3	272.23	6759.59
272.67	6759.66	273.45	6759.77	274.23	6759.89	275.17	6760.03	275.79	6760.13
276.02	6760.16	276.51	6760.24	277.09	6760.32	277.36	6760.43	278.1	6760.48
278.18	6760.49	278.92	6760.78	279.21	6760.8	280.28	6761.13	280.48	6761.12
281.52	6761.1	282.04	6761.08	282.82	6761.06	283.19	6761.06	283.96	6761.04
285.16	6761	285.94	6760.97	286.53	6760.96	286.89	6760.94	287.5	6760.92
287.72	6760.92	289.06	6760.87	289.87	6760.85	291.41	6760.79	291.54	6760.79
292.19	6760.76	293.75	6760.7	294.11	6760.68	294.53	6760.68	294.87	6760.65
295.69	6760.63	296.09	6760.63	296.23	6760.62	296.54	6760.62	297.65	6760.59
298.43	6760.58	298.62	6760.57	299.43	6760.56	299.88	6760.55	299.99	6760.54
300.77	6760.53	301.55	6760.51	303.22	6760.51	303.68	6760.5	305.81	6760.5
306.24	6760.49	308.58	6760.49	309	6760.48	311.57	6760.48	311.7	6760.46
312.48	6760.46	313.24	6760.44	314.04	6760.43	314.91	6760.43	315.43	6760.42

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2.33	.05	150.9	.04	191.49	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

150.9	191.49	216.99	217.01	216.99	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
2.33	43.88	6759.64	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 1789

INPUT
 Description:

Station	Elevation	Data	num=	406
Sta	Elev	Sta	Elev	Sta Elev Sta Elev
113.32	6756.78	113.36	6756.77	113.5 6756.74 113.85 6756.67 114.12 6756.61
114.59	6756.52	114.88	6756.46	115.56 6756.33 115.64 6756.31 115.67 6756.31
115.76	6756.3	116.4	6756.27	116.76 6756.26 117.16 6756.24 117.66 6756.22
117.85	6756.21	117.93	6756.21	118.1 6756.2 118.69 6756.17 118.94 6756.16

119.45	6756.17	119.56	6756.14	120.03	6756.13	120.21	6756.13	120.64	6756.12
120.97	6756.13	121.11	6756.12	121.47	6756.1	121.73	6756.09	122.2	6756.06
122.5	6756.05	123.18	6756.01	123.26	6756.01	123.29	6756	123.37	6756
124.02	6755.96	124.38	6755.93	124.78	6755.91	125.28	6755.87	125.47	6755.86
125.54	6755.86	125.72	6755.84	126.3	6755.81	126.55	6755.79	127.06	6755.75
127.18	6755.75	127.64	6755.72	127.83	6755.7	128.26	6755.67	128.59	6755.65
128.73	6755.64	129.08	6755.62	129.35	6755.6	129.82	6755.57	130.11	6755.55
130.8	6755.5	130.87	6755.5	130.91	6755.49	130.99	6755.49	131.63	6755.44
131.99	6755.42	132.4	6755.41	133.08	6755.41	133.16	6755.4	133.92	6755.4
134.17	6755.39	134.68	6755.39	134.79	6755.38	135.44	6755.38	135.87	6755.37
136.2	6755.36	136.35	6755.36	136.7	6755.35	136.97	6755.35	137.43	6755.34
137.73	6755.32	138.41	6755.29	138.49	6755.28	138.52	6755.28	138.6	6755.27
139.25	6755.23	139.61	6755.21	140.01	6755.18	140.51	6755.15	140.7	6755.14
140.77	6755.13	140.95	6755.12	141.54	6755.08	141.79	6755.07	142.3	6755.03
142.41	6755.03	142.87	6755	143.06	6754.99	143.49	6754.97	143.82	6754.96
143.96	6754.95	144.31	6754.94	144.58	6754.93	145.05	6754.91	145.34	6754.9
146.03	6754.88	146.1	6754.87	146.22	6754.87	146.87	6754.85	147.22	6754.83
147.63	6754.81	148.12	6754.8	148.31	6754.79	148.39	6754.79	148.57	6754.78
149.15	6754.76	149.4	6754.75	149.91	6754.73	150.02	6754.72	150.49	6754.7
150.67	6754.7	151.11	6754.68	151.44	6754.66	151.58	6754.66	151.93	6754.64
152.2	6754.63	152.66	6754.61	152.96	6754.59	153.65	6754.56	153.72	6754.55
153.83	6754.55	154.48	6754.54	154.84	6754.53	155.24	6754.52	155.74	6754.51
155.93	6754.5	156.18	6754.5	156.77	6754.49	157.02	6754.48	157.53	6754.46
157.64	6754.47	158.1	6754.45	158.29	6754.44	158.72	6754.43	159.05	6754.42
159.19	6754.42	159.54	6754.39	159.81	6754.38	160.28	6754.35	160.57	6754.33
161.26	6754.29	161.34	6754.28	161.45	6754.28	162.1	6754.24	162.46	6754.21
162.86	6754.19	163.35	6754.16	163.54	6754.15	163.62	6754.14	163.8	6754.13
164.38	6754.1	164.63	6754.08	165.14	6754.07	165.25	6754.07	165.72	6754.05
165.91	6754.05	166.34	6754.04	166.67	6754.03	166.81	6754.03	167.16	6754.02
167.43	6754.02	167.9	6754	168.19	6754	168.88	6753.99	168.95	6753.99
168.98	6753.98	169.06	6753.98	169.71	6753.97	170.07	6753.97	170.48	6753.96
170.97	6753.95	171.24	6753.95	171.42	6753.94	172	6753.94	172.25	6753.93
172.76	6753.92	173.34	6753.92	173.52	6753.91	174.28	6753.91	174.42	6753.92
174.77	6753.92	175.05	6753.93	175.51	6753.94	175.81	6753.98	176.5	6754.01
176.57	6754.02	176.6	6754.02	176.68	6754.03	177.33	6754.11	177.69	6754.13
178.09	6754.17	178.58	6754.22	178.78	6754.24	178.85	6754.25	179.03	6754.27
179.61	6754.32	179.86	6754.35	180.31	6753.6	180.32	6753.75	180.32	6753.6
180.66	6753.49	183.96	6752.71	185.95	6751.85	190.33	6751.14	191.79	6750.87
194.03	6750.72	197.63	6750.43	199.99	6750.42	203.48	6750.4	206.26	6750.38
208.82	6750.37	209.65	6750.37	215.16	6750.36	218.76	6750.36	219.31	6750.35
221.01	6750.35	224.01	6750.36	226.85	6750.35	228.97	6750.37	231.26	6750.44
232.69	6750.49	238.39	6750.63	238.54	6750.64	238.63	6750.64	244.38	6750.36
248.3	6750.47	250.22	6750.63	253.17	6751.79	256.07	6752.74	257.96	6753.17
261.91	6753.83	262.05	6753.86	262.5	6753.94	262.61	6753.96	262.79	6753.99
263.34	6754.09	263.67	6754.15	264.06	6754.22	264.72	6754.35	264.79	6754.36
264.84	6754.37	265.01	6754.4	265.52	6754.49	266	6754.58	266.25	6754.63
266.65	6754.7	266.98	6754.76	267.17	6754.8	267.71	6754.9	267.97	6754.95
268.34	6755.02	268.43	6755.03	268.59	6755.06	269.16	6755.17	269.51	6755.24
269.89	6755.31	270.52	6755.42	270.62	6755.44	270.68	6755.45	270.93	6755.5
271.35	6755.58	271.85	6755.67	272.07	6755.72	272.45	6755.79	272.8	6755.85
273.02	6755.89	273.53	6755.99	273.88	6756.05	274.18	6756.11	274.26	6756.13
274.38	6756.15	274.99	6756.28	275.35	6756.35	275.72	6756.43	276.31	6756.55
276.44	6756.58	276.52	6756.59	276.84	6756.66	277.17	6756.73	277.69	6756.83
277.9	6756.88	278.25	6756.95	278.63	6757.03	278.86	6757.07	279.36	6757.18
279.8	6757.27	280.03	6757.31	280.09	6757.33	280.18	6757.35	280.81	6757.48
281.2	6757.56	281.54	6757.63	282.11	6757.74	282.27	6757.78	282.37	6757.8
282.75	6757.88	283	6757.93	283.53	6758.04	283.73	6758.08	284.04	6758.14
284.45	6758.23	284.7	6758.28	285.18	6758.39	285.71	6758.48	285.87	6758.52
286.64	6758.52	287.04	6758.51	287.37	6758.51	287.91	6758.5	288.21	6758.5
288.67	6758.49	288.82	6758.49	289.38	6758.48	289.84	6758.48	290.28	6758.47
290.55	6758.47	291.01	6758.46	291.63	6758.45	291.77	6758.45	292.47	6758.44
292.88	6758.44	293.19	6758.43	293.92	6758.43	294.05	6758.42	294.65	6758.42
295.22	6758.41	295.38	6758.41	295.64	6758.4	296.39	6758.4	296.83	6758.39
297.54	6758.38	297.57	6758.38	298.29	6758.49	298.73	6758.56	299.02	6758.6
299.5	6758.68	299.75	6758.72	299.9	6758.74	300.48	6758.83	300.5	6758.83
301.06	6758.92	301.2	6758.94	301.43	6758.97	301.93	6759.05	302.23	6759.1
302.66	6759.16	303.37	6759.27	303.39	6759.27	303.4	6759.28	303.45	6759.28
304.12	6759.38	304.57	6759.45	304.84	6759.5	305.3	6759.57	305.57	6759.58
305.74	6759.59	306.3	6759.62	306.41	6759.63	306.91	6759.65	307.03	6759.66
307.23	6759.67	307.76	6759.7	308.08	6759.71	308.49	6759.74	309.16	6759.77
309.21	6759.78	309.24	6759.78	309.37	6759.8	309.94	6759.92	310.41	6760.01

310.67	6760.06	311.1	6760.14	311.4	6760.2	311.58	6760.24	312.13	6760.35
312.33	6760.39	312.75	6760.47	312.86	6760.48	313.03	6760.53	313.58	6760.64
313.92	6760.7	314.31	6760.72	314.96	6760.91	315.04	6760.92	315.09	6760.93
315.28	6760.97	315.77	6760.97	316.26	6761.11	316.5	6761.14	316.89	6761.2
317.22	6761.22	317.43	6761.27	317.95	6761.35	318.24	6761.39	318.59	6761.44
318.68	6761.45	318.83	6761.47	319.41	6761.55	319.76	6761.6	320.14	6761.66
320.62	6761.66								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
113.32	.05	180.32	.04	261.91	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	180.32	261.91		144.48	144.48	.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 1640.

INPUT

Description:

Station	Elevation	Data	num=	78					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6754.08	.81	6754.08	1.4	6754.09	1.63	6754.09	1.94	6754.08
2.44	6754.08	2.58	6754.07	2.81	6754.07	3.26	6754.06	3.61	6754.05
4.08	6754.05	4.23	6754.04	4.65	6754.04	4.89	6754.03	5.65	6754.02
5.79	6754.02	6.52	6754.01	6.72	6754.01	7.06	6753.98	7.34	6753.95
7.76	6753.91	8.16	6753.87	8.48	6753.84	8.79	6753.81	8.97	6753.79
9.64	6753.73	9.79	6753.72	9.83	6753.71	9.9	6753.71	10.6	6753.64
10.86	6753.61	11.32	6753.57	11.42	6753.52	11.9	6753.49	12.23	6753.43
12.73	6753.35	12.93	6753.32	13.05	6753.3	13.48	6753.23	13.87	6753.17
13.97	6753.15	14.15	6753.12	14.68	6752.51	18.03	6751.76	20.56	6751.26
22.11	6750.97	26.45	6750.42	31.58	6750.56	32.33	6750.57	33.64	6750.57
38.3	6750.54	40.77	6750.53	44.27	6750.52	45.43	6750.49	49.92	6750.41
50.24	6750.41	50.86	6750.52	56.22	6751.37	57.93	6752.28	59.06	6752.88
60.95	6754.13	62.19	6754.48	64.56	6755.11	68.16	6755.93	68.18	6755.94
68.2	6755.94	74.13	6756.17	77.34	6756.23	80.1	6756.31	85.3	6757.11
86.08	6757.21	86.49	6757.35	92.05	6759.41	95.63	6760.13	98.02	6760.34
99.22	6760.38	99.22	6756.16	100.24	6756.37				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	14.68	.04	57.93	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	14.68	57.93		0	0	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	14.66	6757.5	F
65.52	100.24	6757.5	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower RS: 1578

INPUT

Description:

Station	Elevation	Data	num=	21					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-212.95	6760	-205.24	6758.97	-182.92	6756	-12.79	6751.95	122.61	6752
134.44	6752	135.43	6752	162.72	6752	172.31	6752	172.31	6747.66
191.21	6745.89	192.99	6745.7	193.91	6745.6	212.61	6745.19	214.21	6744.57
221.31	6745.25	222.21	6747.93	222.91	6746.67	233.31	6747.13	233.31	6756
472.31	6758								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val

-212.95 .05 172.31 .04 233.31 .05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	172.31	233.31		122	122	122		.3	.5
Ineffective Flow	num=		2						
Sta L	Sta R	Elev	Permanent						
-212.95	172.05	6757.5	F						
233.05	472.31	6757.5	F						

BRIDGE

RIVER: Walton Creek
REACH: lower RS: 1516

INPUT

Description: US40

Distance from Upstream XS = 16

Deck/Roadway Width = 94

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 5				Sta Hi Cord Lo Cord				Sta Hi Cord Lo Cord			
-212.95	6760			173.05	6757.64	6754.64	191.05	6757.53	6754.53		
233.55	6757.78	6754.78		472.05	6761.3						

Upstream Bridge Cross Section Data

Station Elevation Data				num= 18							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-212.95	6760	-182.95	6756	-12.95	6751.95	134.18	6752	135.17	6752		
162.46	6752	172.05	6752	172.05	6747.66	190.95	6745.89	193.65	6745.6		
212.35	6745.19	213.95	6744.57	221.05	6745.25	221.95	6747.93	222.65	6746.67		
233.05	6747.13	233.05	6756	472.05	6758						

Manning's n Values				num= 4							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val		
-212.95	.05	172.05	.03	212.35	.015	233.05	.05				

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	172.05	233.05		.3	.5

Ineffective Flow	num=		2								
Sta L	Sta R	Elev	Permanent								
-212.95	172.05	6757.5	F								
233.05	472.05	6757.5	F								

Downstream Deck/Roadway Coordinates

num= 5				Sta Hi Cord Lo Cord				Sta Hi Cord Lo Cord			
10	6760			386	6757.64	6754.64	414	6757.53	6754.53		
446.5	6757.78	6754.78		688	6761.3						

Downstream Bridge Cross Section Data

Station Elevation Data				num= 17							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10	6758	47	6754	385	6752	387	6746.2	405.9	6745.22		
406.3	6745.25	407.4	6745.41	407.9	6745.42	426.9	6744.9	427.7	6744.9		
428.7	6745.85	435.8	6746.23	436.2	6747.84	436.9	6745.97	448	6746.48		
448	6752	688	6753.82								

Manning's n Values				num= 4							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val		
10	.05	385	.03	426.9	.015	448	.05				

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	385	448		.3	.5

Ineffective Flow	num=		2								
Sta L	Sta R	Elev	Permanent								
10	385	6757.5	F								
448	688	6757.5	F								

Upstream Embankment side slope = 0 horiz. to 1.0 vertical

Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 192.05 Downstream= 405
Upstream num= 2
Width Elev Width Elev
2 6700 2 6800
Downstream num= 2
Width Elev Width Elev
2 6700 2 6800

Pier Data
Pier Station Upstream= 213.05 Downstream= 426
Upstream num= 2
Width Elev Width Elev
2 6700 2 6800
Downstream num= 2
Width Elev Width Elev
2 6700 2 6800

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Energy

High Flow Method
Pressure and Weir flow
Submerged Inlet Cd =
Submerged Inlet + Outlet Cd = .8
Max Low Cord =

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek
REACH: lower RS: 1455

INPUT

Description:

Station	Elevation	Data	num=	17
Sta	Elev	Sta	Elev	Sta Elev Sta Elev Sta Elev
10	6758	47	6754	385 6752 387 6746.2 405.9 6745.22
406.3	6745.25	407.4	6745.41	407.9 6745.42 426.9 6744.9 427.7 6744.9
428.7	6745.85	435.8	6746.23	436.2 6747.84 436.9 6745.97 448 6746.48
448	6752	688	6753.82	

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
10 .05 385 .04 448 .05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	385	448		0 0	0	.3	.5

Ineffective Flow num= 2
Sta L Sta R Elev Permanent
10 385 6757.5 F
448 688 6757.5 F

CROSS SECTION

RIVER: Walton Creek

REACH: main upper

RS: 13645

INPUT

Description: copied 13145

Station Elevation Data		num=		14							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6825.24	184.11	6823.43	202.83	6821.13	289.96	6821.82	351.13	6821.23		
378.63	6818.68	382.79	6818.29	391.92	6817.46	401.06	6817.92	409.29	6820.45		
411.15	6821.02	431.99	6822.37	574.42	6823.03	766.45	6824.63				

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	351.13	.04	431.99	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	351.13	431.99		500	500		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: main upper

RS: 13145

INPUT

Description:

Station Elevation Data		num=		14							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6825.24	184.11	6823.43	202.83	6821.13	289.96	6821.82	351.13	6821.23		
378.63	6818.68	382.79	6818.29	391.92	6817.46	401.06	6817.92	409.29	6820.45		
411.15	6821.02	431.99	6822.37	574.42	6823.03	766.45	6824.63				

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	351.13	.04	431.99	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	351.13	431.99		0	0		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: split

RS: 12570

INPUT

Description:

Station Elevation Data		num=		8							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6812.48	176.58	6810.91	212.25	6807.4	217.61	6807.76	234.53	6809.04		
243.4	6808.97	373.68	6809.99	420.68	6810.57						

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	176.58	.045	234.53	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	176.58	243.4		88	85.4		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: split

RS: 12514.2*

INPUT

Description:

Manning's n Values		num=		5					
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val

326.4	.052	421.72	.041	483.46	.044	491.88	.06	624.14	.06
Bank Sta: Left	Right	Lengths: Left Channel		Right	Coeff Contr.		Expan.		
421.72	491.88	88 85.4		68	.3		.5		

CROSS SECTION

RIVER: Walton Creek
 REACH: split RS: 12291

INPUT

Description:

Station Elevation Data	num=	9							
Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev
408 6809.63	483 6807.09	500 6804.38	508 6803.7	515 6804.04					
545 6804.15	554 6806.44	675 6807.16	675 6809						

Manning's n Values	num=	3			
Sta n Val	Sta n Val	Sta n Val			
408 .05	483 .04	554 .06			

Bank Sta: Left	Right	Lengths: Left Channel		Right	Coeff Contr.		Expan.	
483	554	88 88		88	.3		.5	

Ineffective Flow	num=	2	
Sta L Sta R Elev	Permanent		
408 483 6809.5	F		
554 675 6809.5	F		

BRIDGE

RIVER: Walton Creek
 REACH: split RS: 12250

INPUT

Description:

Distance from Upstream XS =	24
Deck/Roadway Width	= 38
Weir Coefficient	= 2.6

Upstream Deck/Roadway Coordinates

num=	8								
Sta Hi Cord Lo Cord	Sta Hi Cord Lo Cord	Sta Hi Cord Lo Cord							
0 6807.13	150 6807.18	257 6807.43							
370 6807.98	495 6809.89 6807.9	527 6810.15 6808.1							
648 6808.65	675 6809								

Upstream Bridge Cross Section Data

Station Elevation Data	num=	9							
Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev
408 6809.63	483 6807.09	500 6804.38	508 6803.7	515 6804.04					
545 6804.15	554 6806.44	675 6807.16	675 6809						

Manning's n Values	num=	3			
Sta n Val	Sta n Val	Sta n Val			
408 .05	483 .04	554 .06			

Bank Sta: Left	Right	Coeff Contr.		Expan.
483	554	.3		.5

Ineffective Flow	num=	2	
Sta L Sta R Elev	Permanent		
408 483 6809.5	F		
554 675 6809.5	F		

Downstream Deck/Roadway Coordinates

num=	8								
Sta Hi Cord Lo Cord	Sta Hi Cord Lo Cord	Sta Hi Cord Lo Cord							
0 6807.13	150 6807.18	257 6807.43							
370 6807.98	495 6809.89 6807.9	527 6810.15 6808.1							
648 6808.65	675 6809								

Downstream Bridge Cross Section Data

Station Elevation Data		num= 9		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
408	6809.63	483	6807.09	500	6804.38	508	6803.7	515	6804.04
545	6804.15	554	6806.44	675	6807.16	675	6809		

Manning's n Values

num= 3		Sta n Val		Sta n Val		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
408	.05	483	.04	554	.06		

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	483	554	.3	.5

Ineffective Flow		num= 2		Sta L Sta R Elev Permanent	
Sta L	Sta R	Elev	Permanent		
408	483	6809	F		
554	675	6809	F		

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy

Selected Low Flow Methods = Energy

High Flow Method

Energy Only

Additional Bridge Parameters

Add Friction component to Momentum

Do not add Weight component to Momentum

Class B flow critical depth computations use critical depth
inside the bridge at the upstream end

Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek

REACH: split RS: 12202

INPUT

Description:

Station Elevation Data		num= 9		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
408	6809.63	483	6807.09	500	6804.38	508	6803.7	515	6804.04
545	6804.15	554	6806.44	675	6807.16	675	6809		

Manning's n Values

num= 3		Sta n Val		Sta n Val		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
408	.05	483	.04	554	.06		

Bank Sta:	Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
	483	554	85 85	85	.3	.5

Ineffective Flow		num= 2		Sta L Sta R Elev Permanent	
Sta L	Sta R	Elev	Permanent		
408	483	6809	F		
554	675	6809	F		

CROSS SECTION

RIVER: Walton Creek

REACH: split RS: 12112

INPUT

Description:

Station	Elevation	Data	num=	7						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
813.4	6806.57	849.67	6804.22	869.23	6801.1	873.08	6801.09	883.44	6801.29	
894.32	6802.58	1058.33	6804.96							

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
813.4	.06	813.4	.04	1058.33	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	813.4	1058.33		0	0		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: main split RS: 12570.

INPUT

Description:

Station	Elevation	Data	num=	10						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
455.26	6812.85	462.78	6810.04	482.09	6809.05	493.72	6808.31	539.31	6807.54	
561.71	6807.23	571.14	6809.38	581.85	6809.38	609.38	6818.29	710.39	6823.74	

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
455.26	.06	462.78	.04	581.85	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	462.78	581.85		270	270		.3	.5

CROSS SECTION

RIVER: Walton Creek

REACH: main split RS: 12291

INPUT

Description:

Station	Elevation	Data	num=	11						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
675	6807.16	791	6807.65	829	6807.25	847	6802.32	856	6801.38	
868	6802.42	876	6808.91	889	6809.13	937	6808.04	974	6819.92	
1164	6825.96									

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
675	.06	791	.04	889	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	829	876		88	88		.3	.5

Ineffective Flow	num=	2
Sta L	Sta R	Elev
675	814	6811.5
889	1164	6813

BRIDGE

RIVER: Walton Creek

REACH: main split RS: 12250

INPUT

Description:

Distance from Upstream XS =	24
Deck/Roadway Width =	38
Weir Coefficient =	2.6
Upstream Deck/Roadway Coordinates	

num=	8						
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord
675	6808.65				829	6811.56	
847	6812.14	6810.65			869	6812.5	6810.72
1054	6823.37				939	6815.51	
					1164	6827.8	

Upstream Bridge Cross Section Data

Station	Elevation	Data	num=	11			
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
675	6807.16	791	6807.65	829	6807.25	847	6802.32
868	6802.42	876	6808.91	889	6809.13	856	6801.38
1164	6825.96			937	6808.04	974	6819.92

Manning's n Values

num=	3				
Sta	n Val	Sta	n Val	Sta	n Val
675	.06	791	.04	889	.06

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	829	876		.3	.5

Ineffective Flow	num=	2	
Sta L	Sta R	Elev	Permanent
675	814	6811.5	F
889	1164	6813	F

Downstream Deck/Roadway Coordinates

num=	7					
Sta	Hi	Cord	Lo	Cord	Sta	Hi
675	6808.65				831	6811.7
865	6812.5	6810.72			965	6815.51
1190	6827.8				1080	6823.37

Downstream Bridge Cross Section Data

Station	Elevation	Data	num=	10		
Sta	Elev	Sta	Elev	Sta	Elev	Sta
675	6807.16	829	6805.71	838	6802.5	852
876	6804.94	903	6807.02	963	6808.04	1000
						1190

Manning's n Values

num=	3				
Sta	n Val	Sta	n Val	Sta	n Val
675	.06	829	.04	903	.06

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	829	876		.3	.5

Ineffective Flow	num=	2	
Sta L	Sta R	Elev	Permanent
675	820	6810	F
880	1190	6812.8	F

Upstream Embankment side slope	=	0 horiz. to 1.0 vertical
Downstream Embankment side slope	=	0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.95
Elevation at which weir flow begins	=	
Energy head used in spillway design	=	
Spillway height used in design	=	
Weir crest shape	=	Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy
Selected Low Flow Methods = Energy

High Flow Method

Pressure and Weir flow	
Submerged Inlet Cd	=
Submerged Inlet + Outlet Cd	= .8
Max Low Cord	=

Additional Bridge Parameters

Add Friction component to Momentum
Do not add Weight component to Momentum

CROSS SECTION

INPUT

Station Elevation Data		num= 10							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
675	6807.16	829	6805.71	838	6802.5	852	6801.65	865	6802.53
876	6804.94	903	6807.02	963	6808.04	1000	6819.92	1190	6825.96

Manning's	n	Values	num=	3				
Sta	n	Val	Sta	n	Val	Sta	n	Val
675		.06	829		.04	903		.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	829	876		85	85	85		.3	.5

Ineffective Flow		num=	2
Sta L	Sta R	Elev	Permanent
675	820	6810	F
880	1190	6812.8	F

CROSS SECTION

RIVER: Walton Creek
REACH: main split RS: 12112

INPUT

Station Elevation Data						num=		11	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1058.33	6804.96	1111.05	6804.41	1127.99	6800.95	1129.48	6801	1136.5	6801.25
1148.46	6801.24	1152.04	6801.77	1173.98	6804.99	1225.78	6808.55	1267.51	6820.4
1503.96	6830.17								

Manning's	n	Values	num=	3				
Sta	n	Val	Sta	n	Val	Sta	n	Val
1058.33		.06	1111.05		.04	1173.98		.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	1111.05	1173.98		0	0	0		.1	.3

Ineffective Flow		num=	2
Sta L	Sta R	Elev	Permanent
1058.33	1058.33	6812	F
1210	1503.96	6812	F

SUMMARY OF MANNING'S N VALUES

River:Walton Creek

n7	Reach	River Sta.	n1	n2	n3	n4	n5	n6
lower-split	1001		.016	.025	.06	.04	.06	.04
.06								
lower-split	1000.8	Lat Struct						
lower-split	1000		.016	.025	.04	.05	.04	.05
lower-split	999.7	Lat Struct						
lower-split	999.6		.016	.025	.05	.04	.05	
lower-split	999		.016	.025	.05	.04	.05	
lower-split	998.8		.016	.04	.04	.05		
lower-split	998.7		.016	.04	.05			

lower-split	998.56	.045	.04	.045		
lower-split	998.5	.016	.025	.4	.02	.016
lower-split	998.46	Culvert				
lower-split	998.4	.016	.025	.04	.05	
lower-split	998.35	Lat Struct				
lower-split	998.3	.016	.025	.04	.038	
lower-split	998.2	.016	.04	.038		
lower-split	998	.016	.04	.038		
lower-split	997.8	.016	.04	.038		
lower-split	997	.016	.025	.035	.016	
lower-split	996.45	Culvert				
lower-split	996	.016	.04	.016		
lower-split	995.7	.016	.04	.05		
lower-split	995.5	.016	.025	.035	.045	
lower-split	995.45	Culvert				
lower-split	995.4	.016	.038	.04		
lower-split	995.2	.016	.038	.04		
lower-split	995	.038	.038	.05		
lower-DE	11692	.06	.04	.06		
lower-DE	11280	.06	.04	.06		
lower-DE	10714	.06	.04	.06		
lower-DE	9997	.06	.04	.06		
lower-DE	9471	.06	.04	.06		
lower-DE	9027	.06	.04	.06		
lower-DE	8734	.06	.04	.06		
lower-DE	8402	.06	.04	.06		
lower-DE	8070	.06	.04	.06		
lower-DE	7577	.06	.04	.06		
lower-DE	7176.41	.06	.04	.06		
lower-DE	6775.68	.06	.04	.06		
lower-DE	6375	.06	.04	.06		
lower-main split	5893	.05	.04	.05		
lower-main split	5892.0	.05	.04	.05		
lower-main split	5550.12	.05	.04	.05		
lower-main split	5209	.05	.04	.05		
lower-main split	4667	.05	.04	.05		
lower-main split	4571.82	.05	.04	.05		
lower-main split	4262.82	.05	.04	.05		
lower-main split	4220.82	Bridge				
lower-main split	4178.71	.05	.04	.05		
lower-main split	4033.14	.05	.04	.05		
lower-main split	3887.57	.05	.04	.05		
lower-main split	3742	.05	.04	.05		
lower-main split	3640	.05	.04	.05		
lower-main split	3639	.05	.04	.05		
lower-main split	3622	Bridge				
lower-main split	3609	.05	.04	.05		
lower-main split	3379	.05	.04	.05		
lower-main split	3035	.05	.04	.05		
lower-main split	2665	.1	.016	.05	.04	.05
lower-main split	2539	.1	.016	.05	.04	.05
lower-main split	2528	Bridge				
lower-main split	2517	.1	.05	.016	.05	.04
lower-main split	2294	.1	.016	.05	.04	.05
lower-main split	2103	.016	.05	.04	.05	
lower-main split	1790	.05	.04	.05		
lower-main split	1789	.05	.04	.05		
lower-main split	1640.	.05	.04	.05		
lower	1578	.05	.04	.05		
lower	1516	Bridge				
lower	1455	.05	.04	.05		
main upper	13645	.06	.04	.06		
main upper	13145	.06	.04	.06		
split	12570	.06	.045	.06		
split	12514.2*	.058	.044	.056	.06	.06
split	12458.4*	.056	.043	.052	.06	.06
split	12402.6*	.054	.042	.048	.06	.06
split	12346.8*	.052	.041	.044	.06	.06
split	12291	.05	.04	.06		
split	12250	Bridge				
split	12202	.05	.04	.06		

split	12112	.06	.04	.06
main split	12570.	.06	.04	.06
main split	12291	.06	.04	.06
main split	12250	Bridge		
main split	12202	.06	.04	.06
main split	12112	.06	.04	.06

SUMMARY OF REACH LENGTHS

River: Walton Creek

Reach	River Sta.	Left	Channel	Right
lower-split	1001	224.95	230.26	224.95
lower-split	1000.8	Lat Struct		
lower-split	1000	573.3	630.03	573.3
lower-split	999.7	Lat Struct		
lower-split	999.6	309.31	313.36	309.31
lower-split	999	541.75	549.59	541.75
lower-split	998.8	78.95	79.9	78.95
lower-split	998.7	137.57	137.57	137.57
lower-split	998.56	139.94	139.94	139.94
lower-split	998.5	146.04	146.04	146.04
lower-split	998.46	Culvert		
lower-split	998.4	60.64	59.41	60.64
lower-split	998.35	Lat Struct		
lower-split	998.3	145.25	145.76	145.25
lower-split	998.2	164.57	165.08	164.57
lower-split	998	117.79	106.55	117.79
lower-split	997.8	450.46	450.19	450.46
lower-split	997	76.24	76.23	76.24
lower-split	996.45	Culvert		
lower-split	996	207.67	207.09	207.67
lower-split	995.7	159.9	159.28	159.9
lower-split	995.5	105.25	105.25	105.25
lower-split	995.45	Culvert		
lower-split	995.4	197.72	197.72	197.72
lower-split	995.2	127.75	127.76	127.75
lower-split	995	0	0	0
lower-DE	11692	420	411.17	390.88
lower-DE	11280	570	566.57	485.84
lower-DE	10714	505.72	625.08	497.71
lower-DE	9997	498.86	617.68	510
lower-DE	9471	313.68	444.1	280.09
lower-DE	9027	285.55	293.44	280.09
lower-DE	8734	275	331.69	275
lower-DE	8402	275	331.69	275
lower-DE	8070	335	493.05	345.36
lower-DE	7577	132.77	132.77	132.77
lower-DE	7176.41	163.08	163.08	163.08
lower-DE	6775.68	132.85	132.85	132.85
lower-DE	6375	223	223	223
lower-main split	5893	263.61	263.61	263.61
lower-main split	5892.0	142.82	142.83	142.82
lower-main split	5550.12	190.33	190.32	190.33
lower-main split	5209	949.69	949.69	949.69
lower-main split	4667	112.11	112.11	112.11
lower-main split	4571.82	307.12	307.12	307.12
lower-main split	4262.82	84.42	84.42	84.42
lower-main split	4220.82	Bridge		
lower-main split	4178.71	151.66	151.67	151.66
lower-main split	4033.14	150.8	150.79	150.8
lower-main split	3887.57	146.75	146.75	146.75
lower-main split	3742	54.92	54.92	54.92
lower-main split	3640	54.86	54.86	54.86
lower-main split	3639	30.52	30.51	30.52
lower-main split	3622	Bridge		
lower-main split	3609	221.26	221.27	221.26

lower-main split	3379	315	355.57	350
lower-main split	3035	373.7	373.7	373.7
lower-main split	2665	129.59	130.14	129.59
lower-main split	2539	21.59	21.03	21.59
lower-main split	2528	Bridge		
lower-main split	2517	219.85	219.86	219.85
lower-main split	2294	191.29	191.29	191.29
lower-main split	2103	96.09	96.09	96.09
lower-main split	1790	216.99	217.01	216.99
lower-main split	1789	144.48	144.48	144.48
lower-main split	1640.	0	0	0
lower	1578	122	122	122
lower	1516	Bridge		
lower	1455	0	0	0
main upper	13645	500	500	500
main upper	13145	0	0	0
split	12570	88	85.4	68
split	12514.2*	88	85.4	68
split	12458.4*	88	85.4	68
split	12402.6*	88	85.4	68
split	12346.8*	88	85.4	68
split	12291	88	88	88
split	12250	Bridge		
split	12202	85	85	85
split	12112	0	0	0
main split	12570.	270	270	270
main split	12291	88	88	88
main split	12250	Bridge		
main split	12202	85	85	85
main split	12112	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Walton Creek

Reach	River Sta.	Contr.	Expan.
lower-split	1001	.1	.3
lower-split	1000.8	Lat Struct	
lower-split	1000	.1	.3
lower-split	999.7	Lat Struct	
lower-split	999.6	.1	.3
lower-split	999	.1	.3
lower-split	998.8	.1	.3
lower-split	998.7	.1	.3
lower-split	998.56	.1	.3
lower-split	998.5	.3	.5
lower-split	998.46	Culvert	
lower-split	998.4	.3	.5
lower-split	998.35	Lat Struct	
lower-split	998.3	.1	.3
lower-split	998.2	.1	.3
lower-split	998	.1	.3
lower-split	997.8	.1	.3
lower-split	997	.3	.5
lower-split	996.45	Culvert	
lower-split	996	.3	.5
lower-split	995.7	.1	.3
lower-split	995.5	.3	.5
lower-split	995.45	Culvert	
lower-split	995.4	.3	.5
lower-split	995.2	.1	.3
lower-split	995	.1	.3
lower-DE	11692	.1	.3
lower-DE	11280	.1	.3
lower-DE	10714	.1	.3
lower-DE	9997	.1	.3
lower-DE	9471	.1	.3

lower-DE	9027	.1	.3
lower-DE	8734	.1	.3
lower-DE	8402	.1	.3
lower-DE	8070	.1	.3
lower-DE	7577	.1	.3
lower-DE	7176.41	.1	.3
lower-DE	6775.68	.1	.3
lower-DE	6375	.1	.3
lower-main split	5893	.1	.3
lower-main split	5892.0	.1	.3
lower-main split	5550.12	.1	.3
lower-main split	5209	.1	.3
lower-main split	4667	.1	.3
lower-main split	4571.82	.1	.3
lower-main split	4262.82	.3	.5
lower-main split	4220.82	Bridge	
lower-main split	4178.71	.3	.5
lower-main split	4033.14	.1	.3
lower-main split	3887.57	.1	.3
lower-main split	3742	.1	.3
lower-main split	3640	.1	.3
lower-main split	3639	.3	.5
lower-main split	3622	Bridge	
lower-main split	3609	.3	.5
lower-main split	3379	.1	.3
lower-main split	3035	.1	.3
lower-main split	2665	.3	.5
lower-main split	2539	.3	.5
lower-main split	2528	Bridge	
lower-main split	2517	.3	.5
lower-main split	2294	.1	.3
lower-main split	2103	.1	.3
lower-main split	1790	.1	.3
lower-main split	1789	.1	.3
lower-main split	1640.	.3	.5
lower	1578	.3	.5
lower	1516	Bridge	
lower	1455	.3	.5
main upper	13645	.1	.3
main upper	13145	.1	.3
split	12570	.1	.3
split	12514.2*	.1	.3
split	12458.4*	.1	.3
split	12402.6*	.1	.3
split	12346.8*	.3	.5
split	12291	.3	.5
split	12250	Bridge	
split	12202	.3	.5
split	12112	.1	.3
main split	12570.	.3	.5
main split	12291	.3	.5
main split	12250	Bridge	
main split	12202	.3	.5
main split	12112	.1	.3

Profile Output Table - Standard Table 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
main upper	13645	100-yr	1883.00	6817.46	6824.21		6824.31	0.000941	3.06	1128.83	612.02	0.26
main upper	13145	100-yr	1883.00	6817.46	6822.35	6822.35	6823.10	0.011742	7.53	340.54	238.75	0.83
split	12570	100-yr	654.11	6807.40	6810.36		6810.55	0.008154	4.16	223.87	221.13	0.56
split	12514.2*	100-yr	654.11	6806.66	6809.64		6809.89	0.008189	4.47	203.35	206.85	0.59
split	12458.4*	100-yr	654.11	6805.92	6808.87		6809.19	0.008611	4.81	176.63	186.41	0.62
split	12402.6*	100-yr	654.11	6805.18	6808.47		6808.67	0.004168	3.84	223.68	205.76	0.46
split	12346.8*	100-yr	654.11	6804.44	6808.37		6808.46	0.001291	2.62	341.17	223.53	0.27
split	12291	100-yr	654.11	6803.70	6808.27	6805.86	6808.37	0.000821	2.52	260.01	226.95	0.23
split	12250		Bridge									
split	12202	100-yr	654.11	6803.70	6805.85	6805.85	6806.61	0.020048	6.98	93.72	60.95	0.99
split	12112	100-yr	654.11	6801.09	6806.04		6806.06	0.000286	1.13	576.89	236.68	0.13
main split	12570.	100-yr	1228.89	6807.23	6809.84	6809.78	6810.55	0.018261	6.78	181.53	116.58	0.95
main split	12291	100-yr	1228.89	6801.38	6807.81	6806.10	6808.40	0.004252	6.18	204.26	199.65	0.52
main split	12250		Bridge									
main split	12202	100-yr	1228.89	6801.65	6806.63	6805.69	6807.32	0.005690	6.71	191.66	167.15	0.61
main split	12112	100-yr	1228.89	6800.95	6806.63	6804.66	6806.85	0.001640	3.93	390.73	139.57	0.34
lower-DE	11692	100-yr	1883.00	6799.38	6804.48	6804.48	6805.22	0.008492	7.52	380.77	310.65	0.73
lower-DE	11280	100-yr	1883.00	6791.13	6795.21	6794.38	6795.65	0.010546	6.21	426.35	309.53	0.76
lower-DE	10714	100-yr	1883.00	6783.81	6790.43	6789.96	6790.75	0.007455	4.53	415.78	244.92	0.61
lower-DE	9997	100-yr	1883.00	6781.76	6785.56	6785.12	6785.95	0.008868	6.90	528.67	503.47	0.73
lower-DE	9471	100-yr	1883.00	6775.50	6780.79	6780.45	6781.44	0.006749	6.88	360.55	201.80	0.64
lower-DE	9027	100-yr	1883.00	6773.68	6777.23	6776.70	6778.03	0.009136	7.18	268.20	996.85	0.74
lower-DE	8734	100-yr	1883.00	6771.83	6777.12	6775.11	6777.21	0.000891	2.47	890.94	1784.04	0.24
lower-DE	8402	100-yr	1883.00	6772.45	6776.76	6775.66	6776.85	0.001415	2.79	953.02	1642.82	0.29
lower-DE	8070	100-yr	1883.00	6773.07	6775.39	6775.39	6775.75	0.018372	6.05	494.78	1391.90	0.93
lower-DE	7577	100-yr	1883.00	6765.79	6768.57	6767.68	6768.63	0.003756	2.91	1018.87	1277.80	0.43
lower-DE	7176.41	100-yr	1883.00	6764.97	6768.32	6766.75	6768.39	0.001070	2.26	955.69	821.63	0.25
lower-DE	6775.68	100-yr	1883.00	6765.16	6768.29	6768.29	6768.30	0.000259	1.14	2513.64	1128.41	0.12
lower-DE	6375	100-yr	1883.00	6764.27	6767.46	6767.11	6767.48	0.000487	1.44	2046.76	1064.04	0.17
lower-split	1001	100-yr	497.03	6763.00	6766.42	6766.42	6767.01	0.011483	6.54	100.23	697.07	0.79
lower-split	1000.8		Lat Struct									
lower-split	1000	100-yr	503.83	6763.04	6764.60		6764.61	0.000149	0.40	646.56	329.99	0.08
lower-split	999.7		Lat Struct									
lower-split	999.6	100-yr	503.94	6761.26	6763.95	6763.95	6764.30	0.011853	5.56	146.18	274.17	0.77
lower-split	999	100-yr	519.50	6757.51	6763.98		6763.99	0.000135	1.00	822.25	365.34	0.09
lower-split	998.8	100-yr	657.41	6756.96	6763.93		6763.94	0.000074	0.95	939.40	239.17	0.07
lower-split	998.7	100-yr	753.45	6758.40	6763.56		6763.89	0.004106	4.73	186.73	117.38	0.49
lower-split	998.56	100-yr	844.08	6757.62	6763.52		6763.62	0.000766	2.51	339.39	88.42	0.22
lower-split	998.5	100-yr	993.80	6757.02	6763.50	6760.67	6763.58	0.000145	0.14	519.65	123.84	0.01
lower-split	998.46		Culvert									
lower-split	998.4	100-yr	993.80	6756.42	6762.37		6762.47	0.000795	2.60	409.91	137.53	0.23
lower-split	998.35		Lat Struct									
lower-split	998.3	100-yr	985.99	6755.91	6762.34		6762.42	0.000629	2.33	433.99	119.19	0.20
lower-split	998.2	100-yr	973.50	6754.38	6762.27		6762.34	0.000413	2.07	492.27	138.79	0.17
lower-split	998	100-yr	953.55	6754.86	6762.22		6762.28	0.000335	2.06	522.04	149.20	0.16

lower-split	997.8	100-yr	943.05	6753.98	6762.20		6762.24	0.000222	1.62	598.62	143.92	0.12
lower-split	997	100-yr	875.20	6753.95	6761.97	6760.49	6762.09	0.000493	2.53	321.66	153.67	0.20
lower-split	996.45		Culvert									
lower-split	996	100-yr	875.20	6752.86	6761.74		6761.86	0.000623	2.67	320.68	142.74	0.20
lower-split	995.7	100-yr	821.56	6754.13	6761.60		6761.71	0.000784	2.83	338.80	113.66	0.23
lower-split	995.5	100-yr	798.74	6752.66	6761.50	6758.52	6761.60	0.000585	3.11	357.03	108.08	0.22
lower-split	995.45		Culvert									
lower-split	995.4	100-yr	798.74	6751.50	6760.00	6757.48	6760.17	0.000915	3.67	262.57	63.20	0.26
lower-split	995.2	100-yr	721.99	6752.33	6758.44	6758.44	6759.51	0.008402	9.08	102.23	46.82	0.76
lower-split	995	100-yr	721.99	6751.22	6755.49	6755.49	6756.62	0.013530	9.22	93.90	41.94	0.94
lower-main split	5893	100-yr	1385.97	6764.64	6766.85		6767.01	0.003861	3.31	438.61	283.68	0.44
lower-main split	5892.0	100-yr	1379.17	6761.21	6764.73	6764.73	6765.42	0.009869	7.29	257.41	200.88	0.77
lower-main split	5550.12	100-yr	889.21	6761.21	6763.45		6763.64	0.008976	4.57	306.49	388.16	0.66
lower-main split	5209	100-yr	889.21	6759.71	6762.57	6761.67	6762.68	0.003065	2.68	347.37	261.80	0.39
lower-main split	4667	100-yr	889.21	6757.16	6761.10	6759.58	6761.15	0.000981	2.44	645.79	519.94	0.25
lower-main split	4571.82	100-yr	889.21	6757.22	6760.85	6759.82	6760.98	0.002099	3.70	347.44	170.98	0.36
lower-main split	4262.82	100-yr	889.21	6754.54	6759.68	6758.32	6760.10	0.003908	5.49	220.37	389.01	0.50
lower-main split	4220.82		Bridge									
lower-main split	4178.71	100-yr	889.21	6753.81	6759.34	6757.80	6759.42	0.000837	2.87	514.39	263.00	0.24
lower-main split	4033.14	100-yr	1161.01	6753.43	6759.00		6759.20	0.001730	4.06	394.86	182.55	0.35
lower-main split	3887.57	100-yr	1161.01	6752.84	6758.63		6758.90	0.002306	4.63	348.68	167.28	0.40
lower-main split	3742	100-yr	1161.01	6752.95	6758.55		6758.63	0.000963	3.18	606.10	246.00	0.26
lower-main split	3640	100-yr	1161.01	6752.89	6758.21	6756.89	6758.52	0.002898	4.75	296.43	140.88	0.43
lower-main split	3639	100-yr	1161.01	6752.65	6758.14	6755.90	6758.37	0.001851	3.85	302.64	81.12	0.35
lower-main split	3622		Bridge									
lower-main split	3609	100-yr	1161.01	6753.33	6758.00		6758.29	0.002819	4.32	268.66	81.82	0.42
lower-main split	3379	100-yr	1161.01	6752.32	6757.41	6755.55	6757.71	0.002417	4.57	310.90	489.43	0.40
lower-main split	3035	100-yr	1262.01	6751.55	6756.99	6755.25	6757.09	0.001168	3.03	568.73	637.58	0.28
lower-main split	2665	100-yr	1262.01	6747.30	6756.97		6756.99	0.000082	1.37	1633.17	480.67	0.08
lower-main split	2539	100-yr	1262.01	6747.21	6756.96	6750.26	6756.98	0.000096	1.13	1297.76	395.39	0.08
lower-main split	2528		Bridge									
lower-main split	2517	100-yr	1262.01	6747.41	6756.92		6756.96	0.000188	1.53	827.21	159.34	0.12
lower-main split	2294	100-yr	1262.01	6751.03	6756.65		6756.83	0.001434	3.58	432.44	168.09	0.31
lower-main split	2103	100-yr	1262.01	6750.42	6756.19		6756.47	0.002347	5.15	370.04	145.73	0.41
lower-main split	1790	100-yr	1262.01	6750.40	6756.06	6753.86	6756.28	0.001464	4.27	403.60	136.82	0.33
lower-main split	1789	100-yr	1262.01	6750.35	6755.90		6756.02	0.000775	2.97	479.31	148.07	0.24
lower-main split	1640.	100-yr	1262.01	6750.41	6754.98	6753.84	6755.73	0.005359	6.96	186.03	64.08	0.60
lower	1578	100-yr	1984.00	6744.57	6755.26	6749.30	6755.46	0.000551	3.55	559.48	385.01	0.21
lower	1516		Bridge									
lower	1455	100-yr	1984.00	6744.90	6755.04	6748.88	6755.22	0.000549	3.40	583.77	650.62	0.20

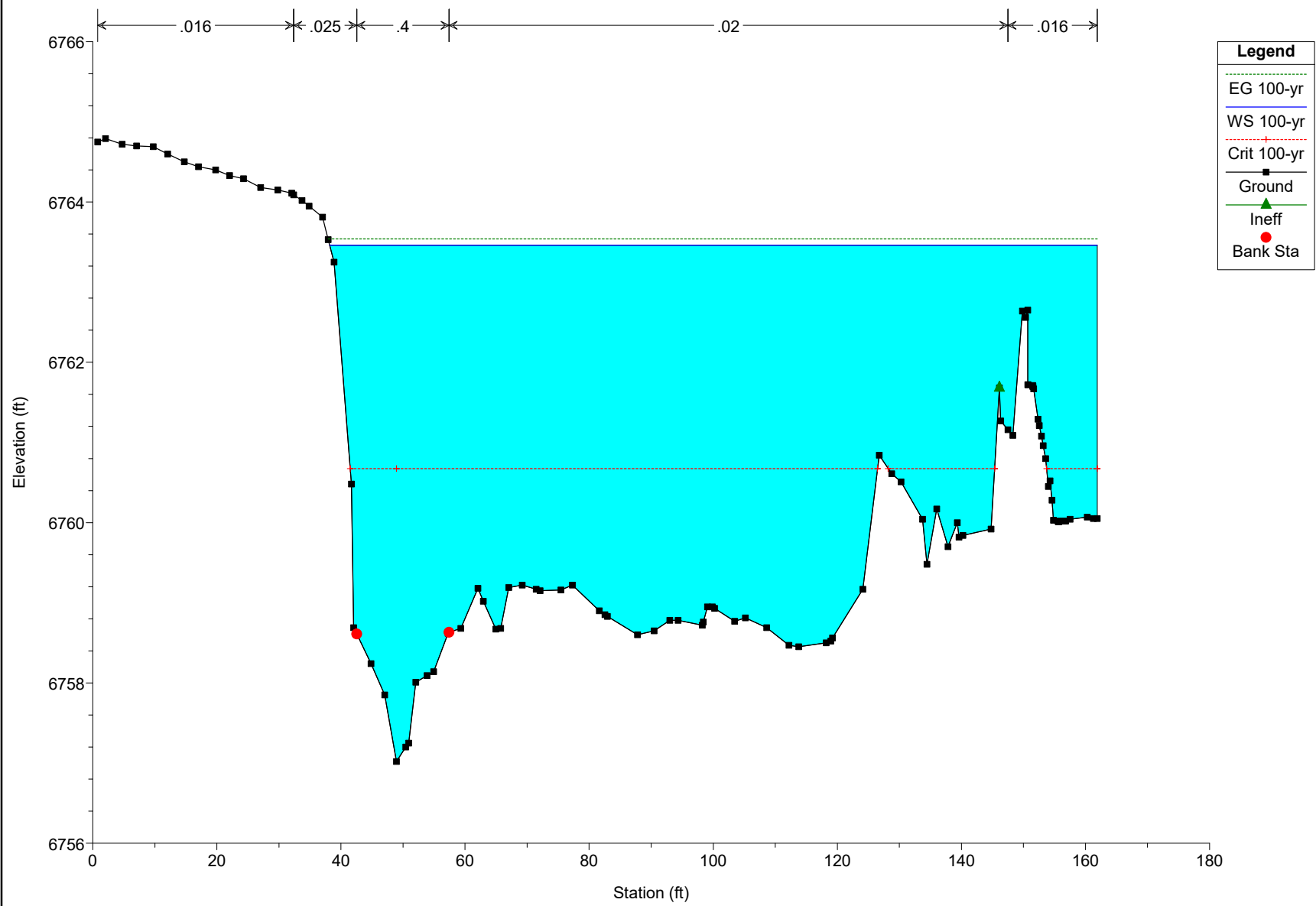
Profile Output Table - Standard Table 2

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frctn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)	
main upper	13645	100-yr	6824.31	6824.21	0.09	1.14	0.07	549.52	1097.81	235.67	612.02	
main upper	13145	100-yr	6823.10	6822.35	0.75	7.95	0.01	316.06	1566.94		238.75	
split	12570	100-yr	6810.55	6810.36	0.20	0.66	0.01		434.04	220.07	221.13	

split	12514.2*	100-yr	6809.89	6809.64	0.25	0.69	0.01		507.01	147.10	206.85
split	12458.4*	100-yr	6809.19	6808.87	0.32	0.48	0.03		574.97	79.15	186.41
split	12402.6*	100-yr	6808.67	6808.47	0.20	0.18	0.03		576.95	77.16	205.76
split	12346.8*	100-yr	6808.46	6808.37	0.09	0.09	0.00	2.30	535.86	115.95	223.53
split	12291	100-yr	6808.37	6808.27	0.10	0.04	0.12		654.11		226.95
split	12250		Bridge								
split	12202	100-yr	6806.61	6805.85	0.76	0.08	0.37		654.11		60.95
split	12112	100-yr	6806.06	6806.04	0.02	0.76	0.07		654.11		236.68
main split	12570.	100-yr	6810.55	6809.84	0.71	2.09	0.06		1228.49	0.40	116.58
main split	12291	100-yr	6808.40	6807.81	0.59	0.14	0.12	10.81	1218.08		199.65
main split	12250		Bridge								
main split	12202	100-yr	6807.32	6806.63	0.68	0.24	0.24	13.63	1192.27	22.98	167.15
main split	12112	100-yr	6806.85	6806.63	0.21	1.57	0.05	157.48	1054.13	17.28	139.57
lower-DE	11692	100-yr	6805.22	6804.48	0.74	3.85	0.09	306.82	1575.97	0.21	310.65
lower-DE	11280	100-yr	6795.65	6795.21	0.43	4.86	0.03	2.11	1193.55	687.35	309.53
lower-DE	10714	100-yr	6790.75	6790.43	0.32	4.79	0.01		1883.00		244.92
lower-DE	9997	100-yr	6785.95	6785.56	0.39	4.48	0.03	1.20	856.95	1024.85	503.47
lower-DE	9471	100-yr	6781.44	6780.79	0.65	3.40	0.01	226.55	1656.45		201.80
lower-DE	9027	100-yr	6778.03	6777.23	0.80	0.61	0.21		1877.16	5.84	996.85
lower-DE	8734	100-yr	6777.21	6777.12	0.09	0.36	0.00	178.95	1702.00	2.05	1784.04
lower-DE	8402	100-yr	6776.85	6776.76	0.09	1.08	0.03	536.35	1341.43	5.22	1642.82
lower-DE	8070	100-yr	6775.75	6775.39	0.36	2.80	0.09	854.15	1028.85		1391.90
lower-DE	7577	100-yr	6768.63	6768.57	0.06	0.24	0.00	1539.37	343.63		1277.80
lower-DE	7176.41	100-yr	6768.39	6768.32	0.07	0.08	0.02	147.66	1729.88	5.46	821.63
lower-DE	6775.68	100-yr	6768.30	6768.29	0.01	0.05	0.00	1616.53	132.90	133.57	1128.41
lower-DE	6375	100-yr	6767.48	6767.46	0.01	0.45	0.02	1544.53	220.64	117.83	1064.04
lower-split	1001	100-yr	6767.01	6766.42	0.59	0.11	0.17	59.98	436.97	0.08	697.07
lower-split	1000.8		Lat Struct								
lower-split	1000	100-yr	6764.61	6764.60	0.01	0.29	0.03	482.88	10.10	10.85	329.99
lower-split	999.7		Lat Struct								
lower-split	999.6	100-yr	6764.30	6763.95	0.34	0.13	0.10	127.23	334.08	42.64	274.17
lower-split	999	100-yr	6763.99	6763.98	0.01	0.05	0.00	254.23	114.04	151.23	365.34
lower-split	998.8	100-yr	6763.94	6763.93	0.01	0.02	0.03	186.78	125.53	345.09	239.17
lower-split	998.7	100-yr	6763.89	6763.56	0.33	0.20	0.07	0.57	703.68	49.21	117.38
lower-split	998.56	100-yr	6763.62	6763.52	0.10	0.04	0.01		840.11	3.97	88.42
lower-split	998.5	100-yr	6763.58	6763.50	0.08			6.90	11.35	975.55	123.84
lower-split	998.46		Culvert								
lower-split	998.4	100-yr	6762.47	6762.37	0.10	0.04	0.01	98.46	829.92	65.42	137.53
lower-split	998.35		Lat Struct								
lower-split	998.3	100-yr	6762.42	6762.34	0.08	0.07	0.01	2.57	957.98	25.45	119.19
lower-split	998.2	100-yr	6762.34	6762.27	0.07	0.06	0.00	1.47	951.69	20.34	138.79
lower-split	998	100-yr	6762.28	6762.22	0.06	0.03	0.01	35.10	795.19	123.27	149.20
lower-split	997.8	100-yr	6762.24	6762.20	0.04	0.14	0.01	0.35	931.82	10.88	143.92
lower-split	997	100-yr	6762.09	6761.97	0.12			33.17	337.84	504.19	153.67
lower-split	996.45		Culvert								
lower-split	996	100-yr	6761.86	6761.74	0.12	0.14	0.00	23.60	500.21	351.40	142.74
lower-split	995.7	100-yr	6761.71	6761.60	0.11	0.11	0.00	20.97	722.05	78.55	113.66
lower-split	995.5	100-yr	6761.60	6761.50	0.10			7.72	462.94	328.08	108.08
lower-split	995.45		Culvert								
lower-split	995.4	100-yr	6760.17	6760.00	0.17	0.39	0.27	10.32	559.47	228.94	63.20

lower-split	995.2	100-yr	6759.51	6758.44	1.07	1.34	0.01	25.91	579.41	116.68	46.82
lower-split	995	100-yr	6756.62	6755.49	1.13	0.00	0.28	25.39	584.52	112.09	41.94
lower-main split	5893	100-yr	6767.01	6766.85	0.17	1.54	0.05	53.18	1332.80		283.68
lower-main split	5892.0	100-yr	6765.42	6764.73	0.69	1.36	0.15	215.48	1121.64	42.05	200.88
lower-main split	5550.12	100-yr	6763.64	6763.45	0.19	0.93	0.02	487.91	396.28	5.02	388.16
lower-main split	5209	100-yr	6762.68	6762.57	0.11	1.52	0.02	41.12	848.09		261.80
lower-main split	4667	100-yr	6761.15	6761.10	0.05	0.16	0.01	485.55	392.52	11.14	519.94
lower-main split	4571.82	100-yr	6760.98	6760.85	0.14	0.86	0.03	426.91	458.44	3.85	170.98
lower-main split	4262.82	100-yr	6760.10	6759.68	0.42	0.11	0.10		787.25	101.96	389.01
lower-main split	4220.82		Bridge								
lower-main split	4178.71	100-yr	6759.42	6759.34	0.08	0.19	0.04	210.55	478.05	200.60	263.00
lower-main split	4033.14	100-yr	6759.20	6759.00	0.20	0.30	0.01	167.05	860.43	133.53	182.55
lower-main split	3887.57	100-yr	6758.90	6758.63	0.27	0.21	0.06	265.09	888.09	7.83	167.28
lower-main split	3742	100-yr	6758.63	6758.55	0.08	0.09	0.02	503.08	370.53	287.40	246.00
lower-main split	3640	100-yr	6758.52	6758.21	0.31	0.13	0.03	115.39	1026.54	19.08	140.88
lower-main split	3639	100-yr	6758.37	6758.14	0.23	0.02	0.00	1.97	1159.04		81.12
lower-main split	3622		Bridge								
lower-main split	3609	100-yr	6758.29	6758.00	0.29	0.58	0.00		1161.01		81.82
lower-main split	3379	100-yr	6757.71	6757.41	0.30	0.55	0.06	100.79	1060.22		489.43
lower-main split	3035	100-yr	6757.09	6756.99	0.10	0.08	0.03	446.53	778.12	37.35	637.58
lower-main split	2665	100-yr	6756.99	6756.97	0.02	0.01	0.00	504.59	609.62	147.80	480.67
lower-main split	2539	100-yr	6756.98	6756.96	0.02	0.00	0.00	28.13	1167.78	66.09	395.39
lower-main split	2528		Bridge								
lower-main split	2517	100-yr	6756.96	6756.92	0.04	0.09	0.04	0.04	1261.96		159.34
lower-main split	2294	100-yr	6756.83	6756.65	0.17	0.35	0.01	22.79	1079.00	160.22	168.09
lower-main split	2103	100-yr	6756.47	6756.19	0.28	0.18	0.02	42.29	767.33	452.38	145.73
lower-main split	1790	100-yr	6756.28	6756.06	0.22	0.23	0.03	180.57	908.99	172.45	136.82
lower-main split	1789	100-yr	6756.02	6755.90	0.13	0.24	0.06	61.62	1190.72	9.66	148.07
lower-main split	1640.	100-yr	6755.73	6754.98	0.74	0.00	0.27	0.15	1246.96	14.90	64.08
lower	1578	100-yr	6755.46	6755.26	0.20			1.30	1982.70		385.01
lower	1516		Bridge								
lower	1455	100-yr	6755.22	6755.04	0.18				1984.00		650.62

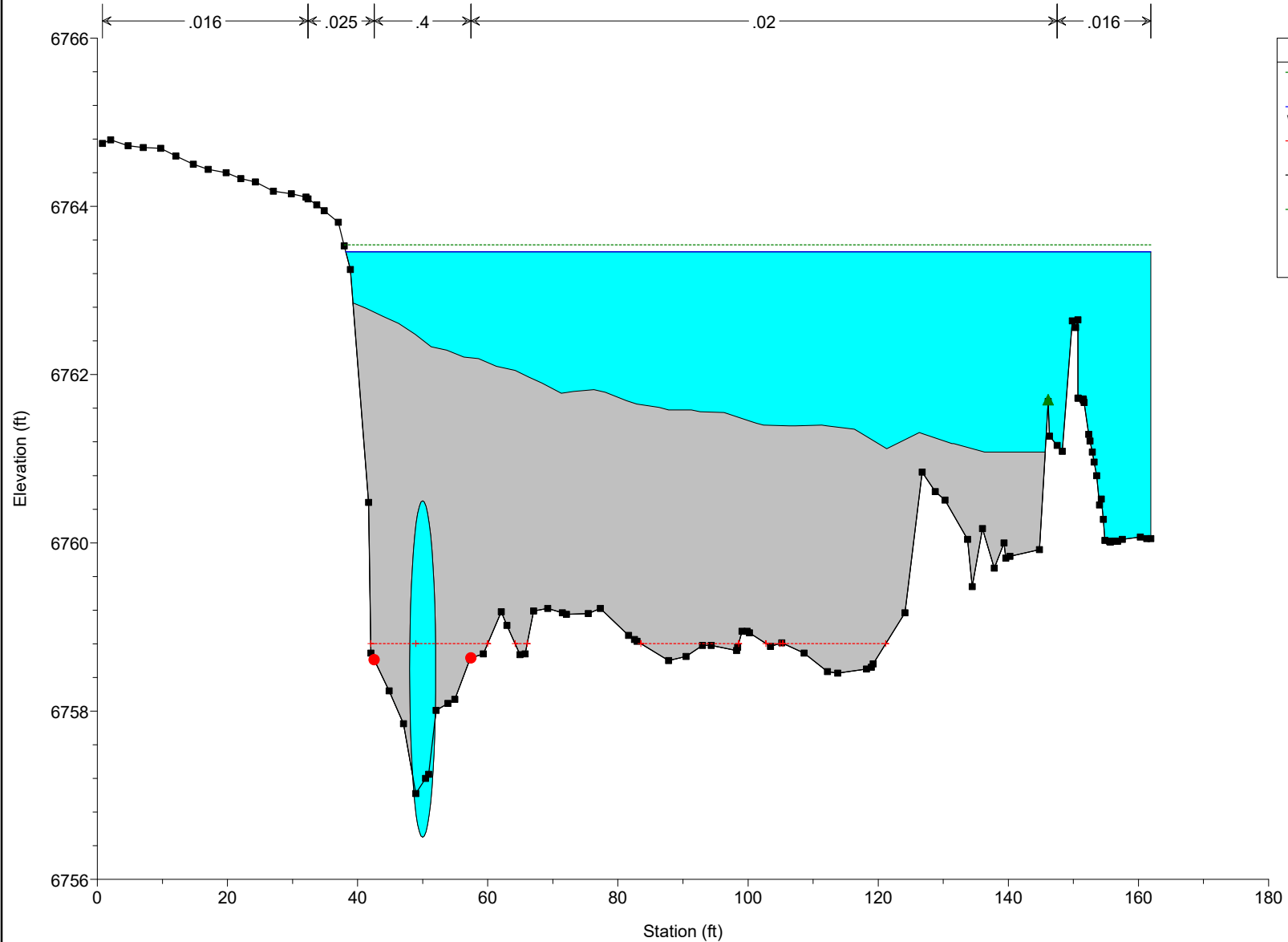
Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 PP 10/2/2022



Hampton Inn & Holiday Inn Express Proposed Development

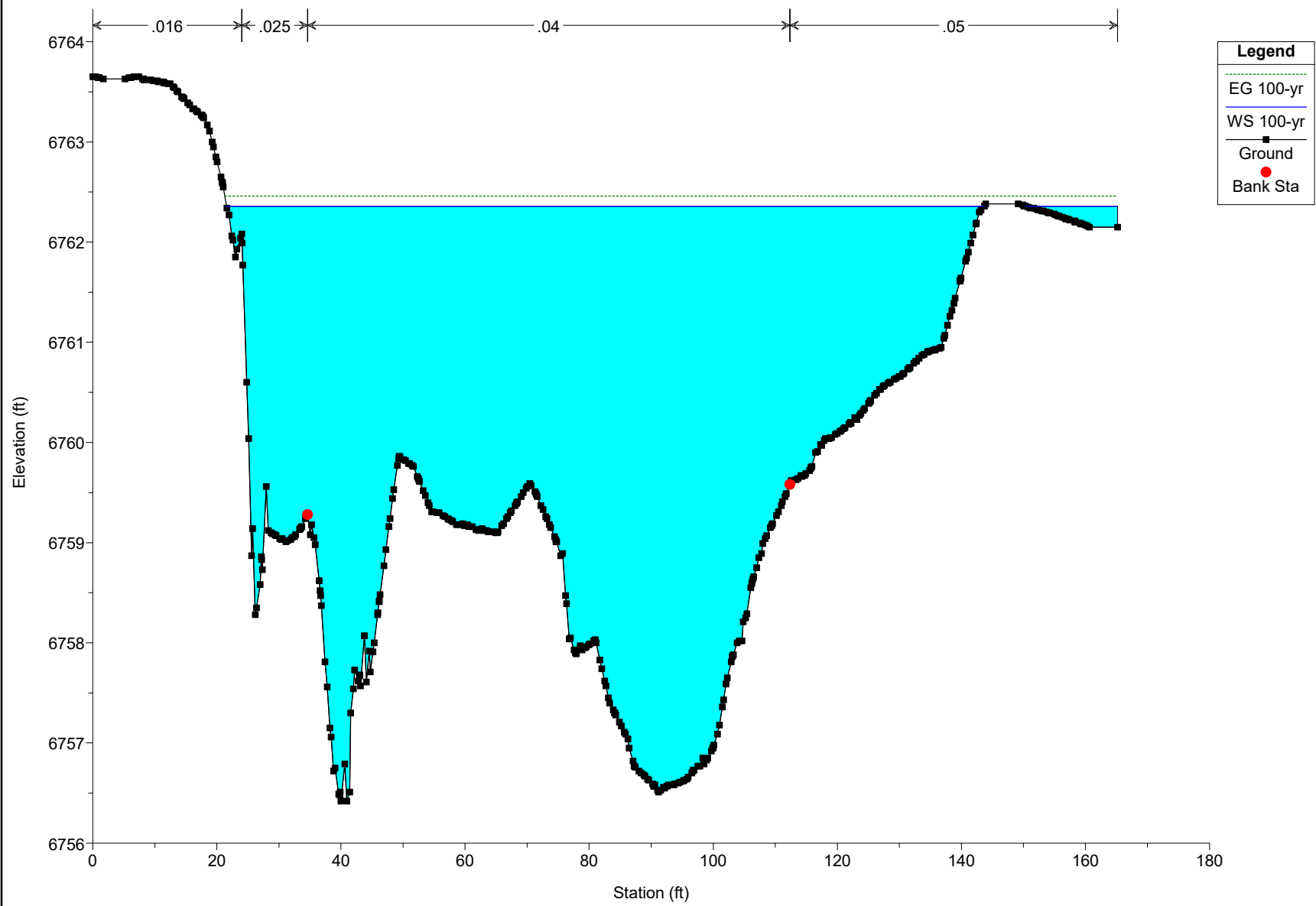
Plan: WC 100 PP 10/2/2022

Stone Lane Culverts

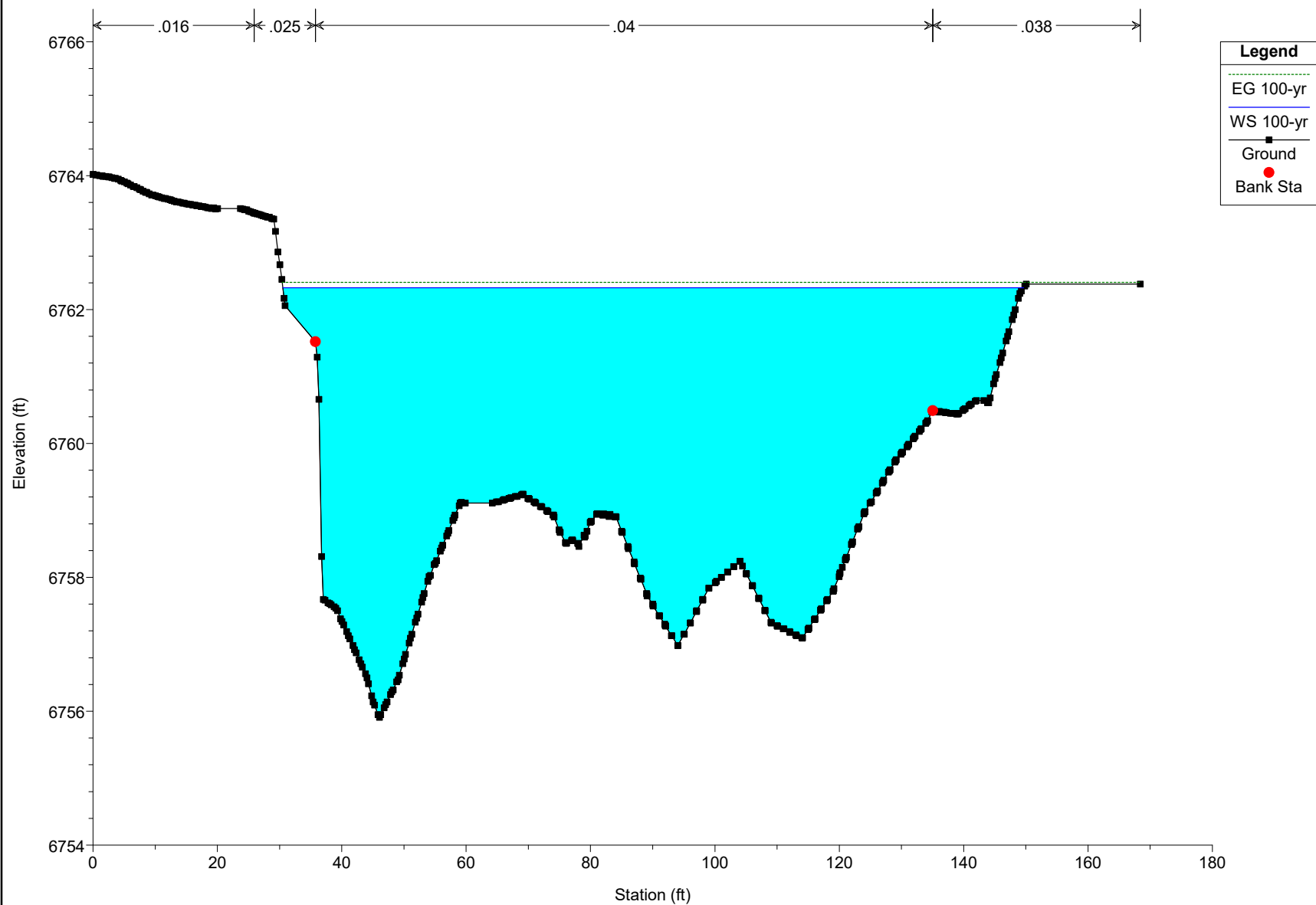


Legend	
EG 100-yr	
WS 100-yr	
Crit 100-yr	
Ground	
Ineff	
Bank Sta	

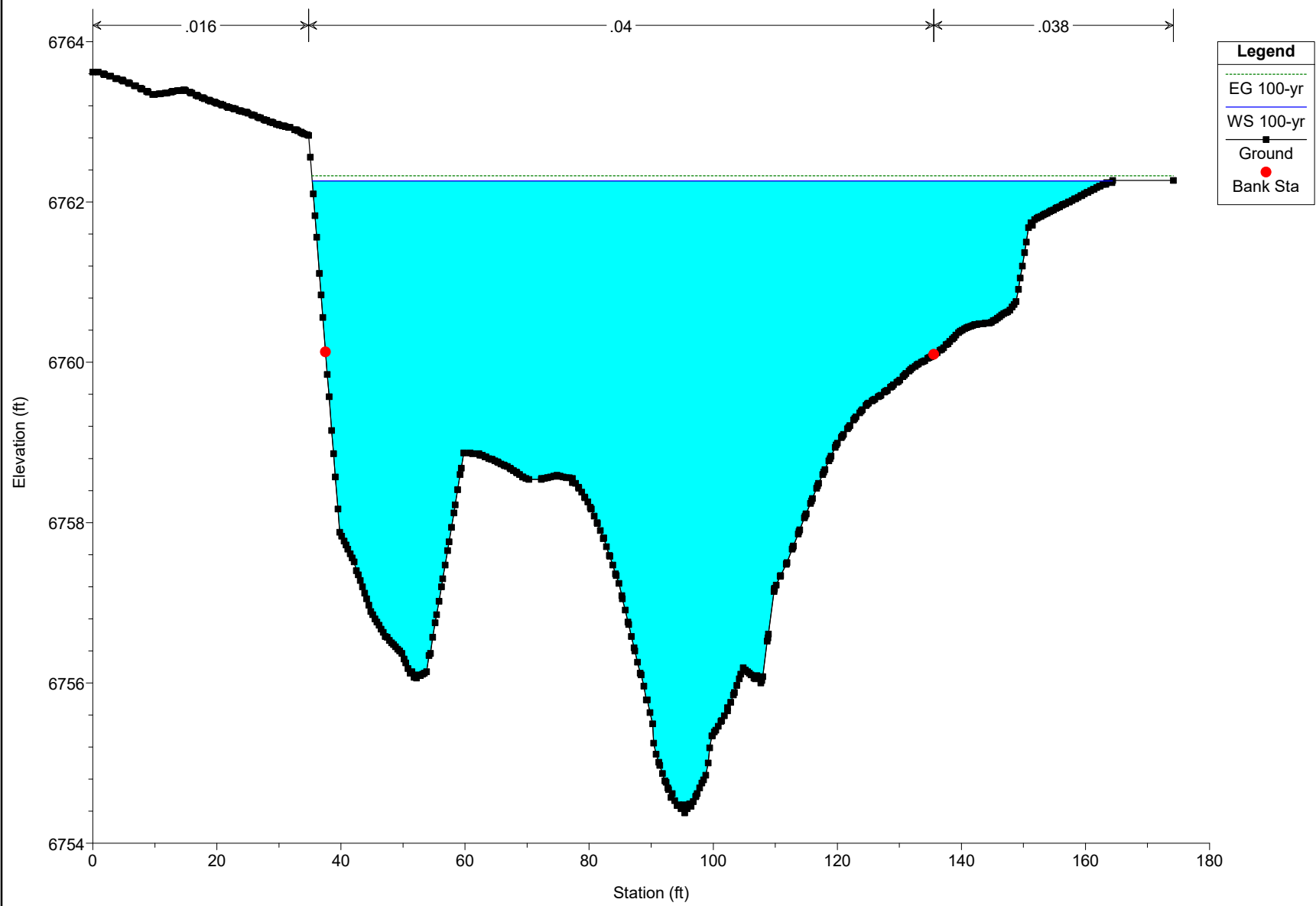
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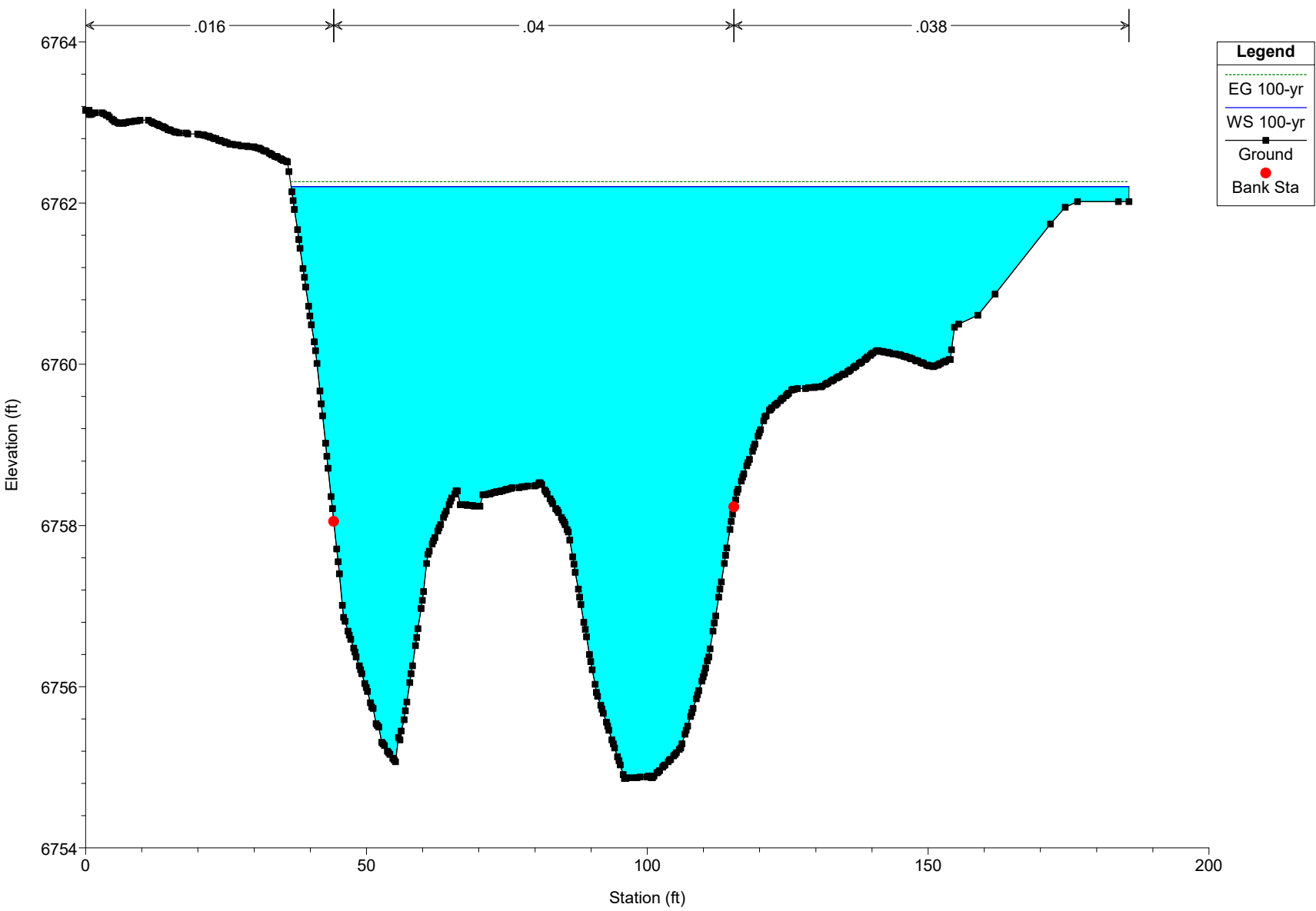
Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 PP 10/2/2022

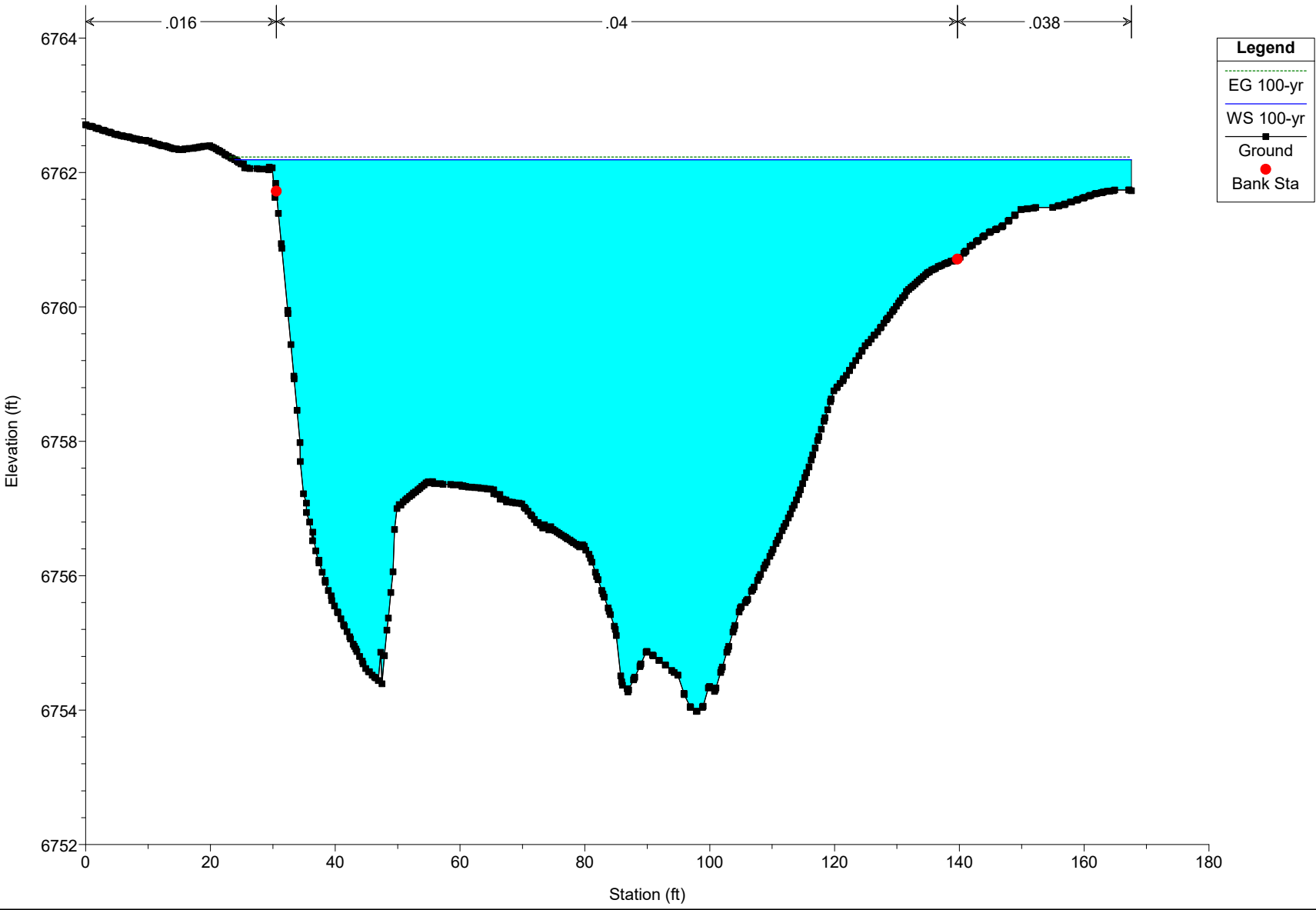


Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 PP 10/2/2022

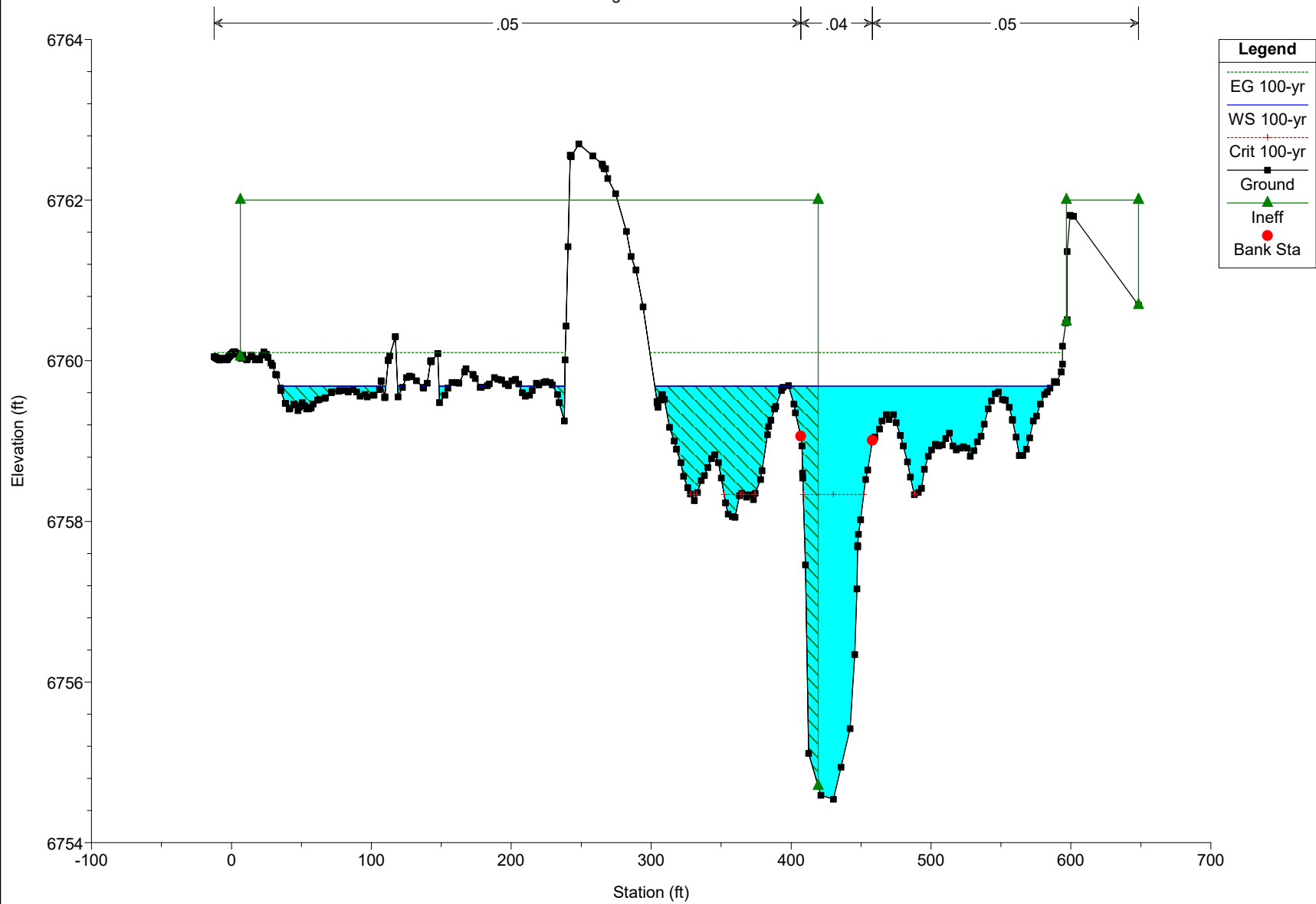


Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 PP 10/2/2022



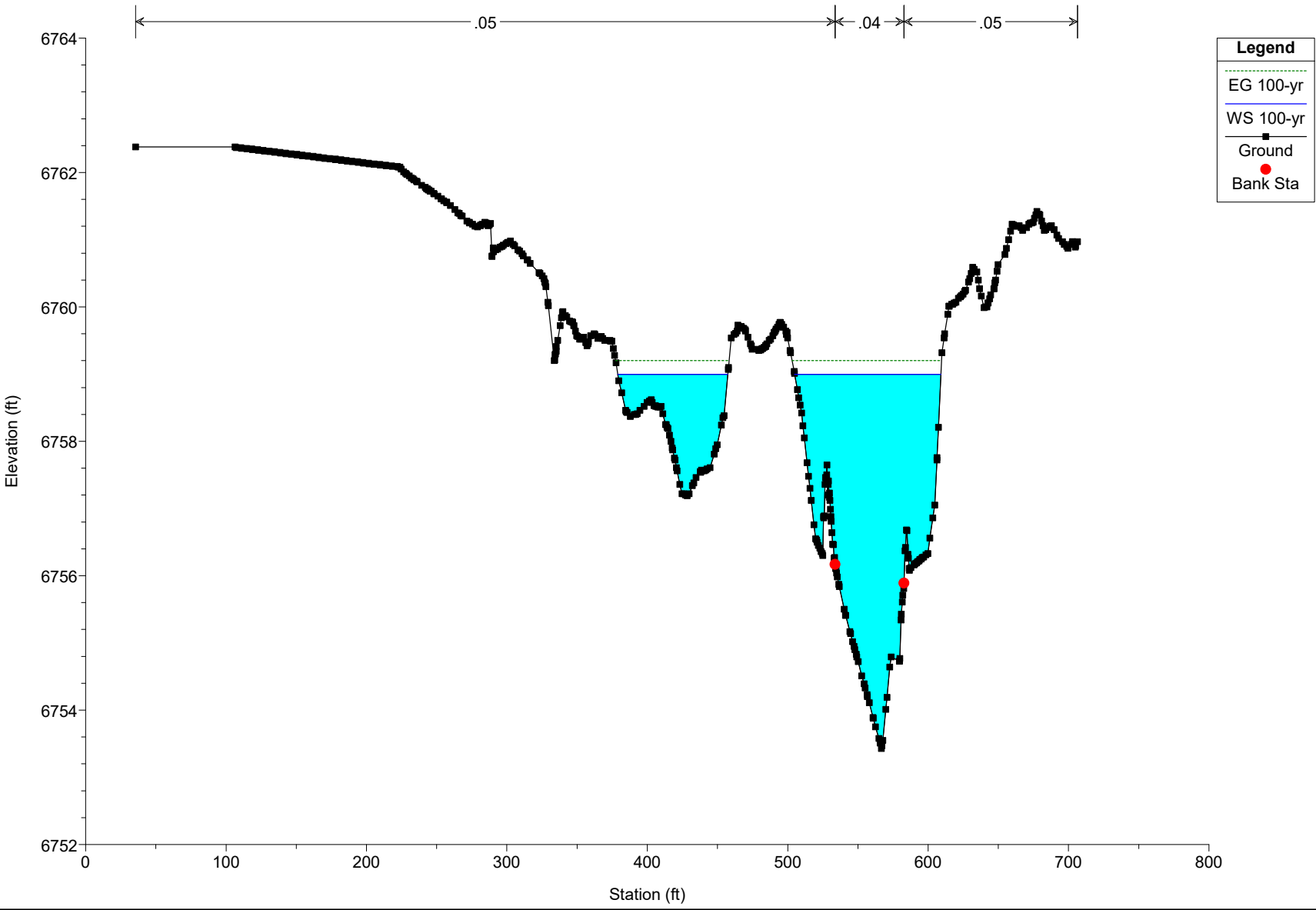


Plan: WC 100 PP 10/2/2022

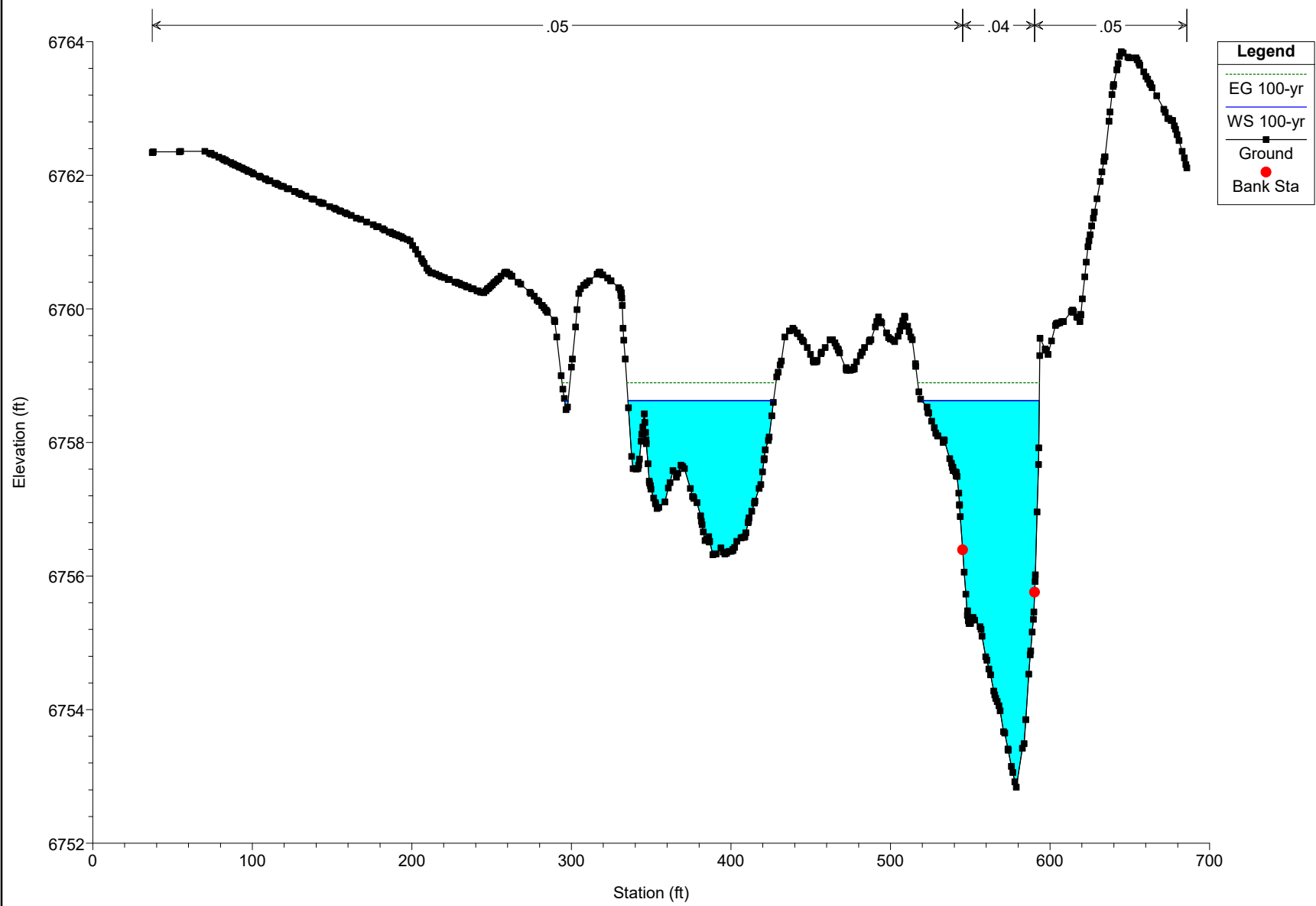


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Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 PP 10/2/2022



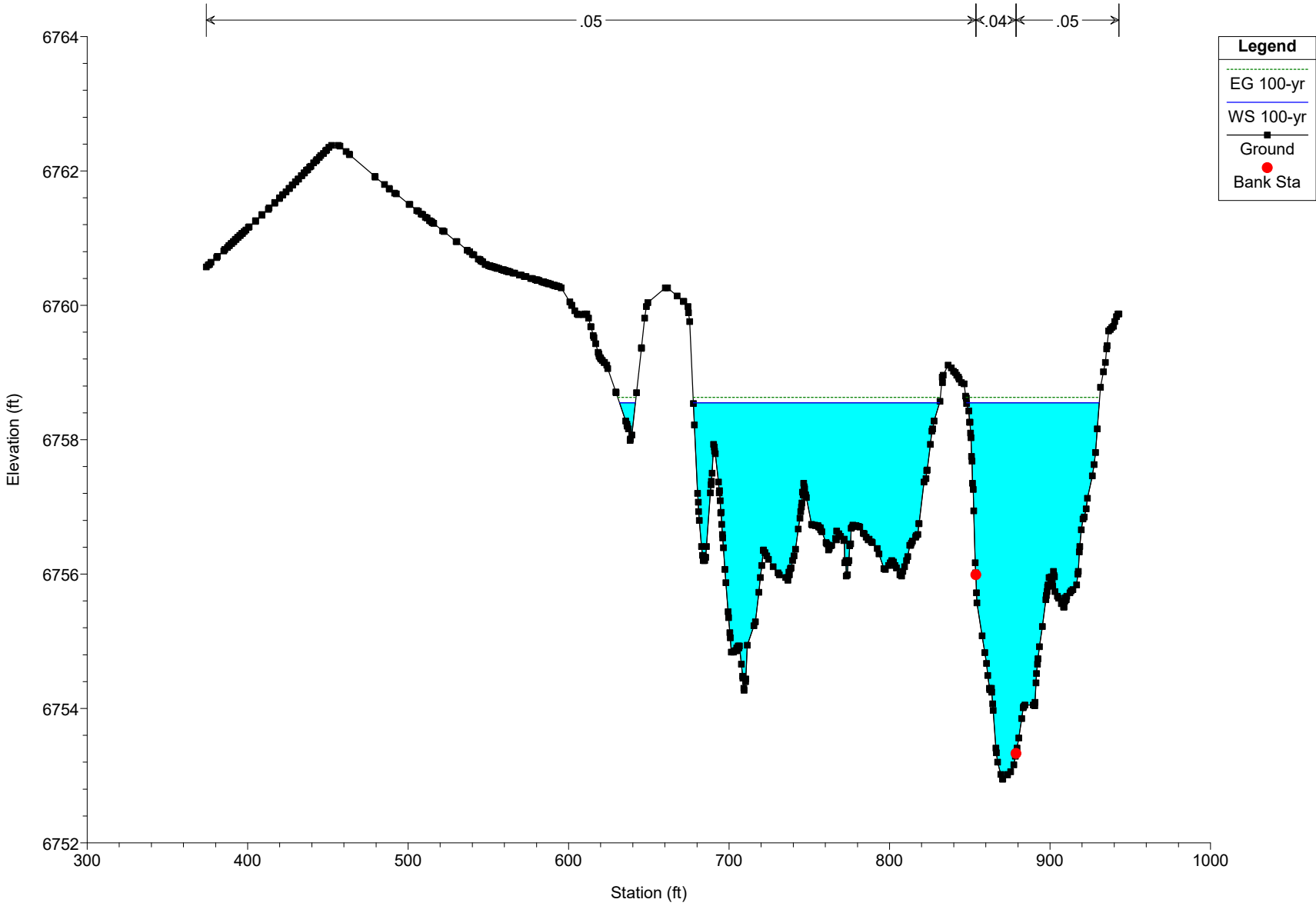
Hampton Inn & Holiday Inn Express Proposed Development Plan: WC 100 PP 10/2/2022



Hampton Inn & Holiday Inn Express Proposed Development

Plan: WC 100 PP 10/2/2022

Bridge Cross Section 1



Lot 1, Indian Meadows Filing No. 3
Walton Creek Preliminary
HEC-RAS Split Flow Analysis
October 3, 2022



Appendix D

Future Offsite Improvements Model Output

HEC-RAS HEC-RAS 6.2 March 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

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X      X  XXXXXX   XXXX      XXXX      XX      XXXX
X      X  X        X      X      X  X      X
X      X  X        X      X  X      X  X      X
XXXXXXXX XXXX      X      XXX XXXX XXXXXXX XXXX
X      X  X        X      X  X      X  X      X
X      X  X        X      X  X      X  X      X
X      X  XXXXXX   XXXX      X  X      X  X      XXXXX

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PROJECT DATA

Project Title: Hampton Inn & Holiday Inn Express Proposed Development
Project File : WaltonCreek-PP Worked.prj
Run Date and Time: 2/10/2023 11:40:04 AM

Project in English units

Project Description:

Project Name: Hampton Inn & Holiday Inn Express Proposed Development
Project

Owner: Gray Stone, LLC

State: Colorado

County: Routt County

Stream Name:

Walton Creek

Analysis by: Wohnrade Civil Engineers, Inc. (WCE)

Date of

Analysis: 2/9/2023

HEC-RAS Version 5.0.7

Vertical Datum used: NGVD 29 which
is 4.12' lower than the NAVD88 datum

Horizontal Projection used: NAD 1983

(2011) State Plane Colorado North FIPS 0501 (US Feet)

Analysis Description:

This enhanced model was developed using aerial GIS LiDAR and supplemental ground survey and is the best available data for the proposed land development project. It includes the 100-year recurrence interval only.

Please refer to

the letter report entitled, Final Summary of Findings, Hampton Inn & Holiday Inn Express, Walton Creek HEC-RAS Split Flow Analysis for additional information related to this analysis.

The Effective HEC-RAS model has been truncated at the downstream end for this analysis. The model begins at the downstream side of the Highway 40 (SECNO 1455) and ends at the upper limit of the study reach. Cross-sections within the study reach include Section 1455 through Section 13645.

This model includes both Existing Conditions and Proposed Project models. The Proposed Project model takes into account the Hampton Inn & Holiday Inn Express Proposed Development.

CRS

Info=<SpatialReference> <CoordinateSystem Code="2231" Unit="US_survey_Foot"
AcadCode="CO83-NF" /></SpatialReference>

PLAN DATA

Plan Title: WC 100 OFF

Plan File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.p02

Geometry Title: WC 100 OFF
Geometry File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.g02

Flow Title : WC 100 OFF
Flow File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.f02

Plan Description:

This plan is the Future Conditions model for the 100-year event which includes offsite improvements such as the lateral weir and a new 48" Culvert at Stone Lane. The model extends from the downstream side of the bridge at Highway 40 (Cross Section 1455, Walton Creek Lower Reach) to just upstream of County Road 24 (Cross Section 13645, Main Upper Reach).

The plan includes:

Geometry:

WaltonCreek-EC.g03

Steady Flow: WaltonCreek-EC.f05

Plan Summary Information:

Number of:	Cross Sections =	59	Multiple Openings =	0
	Culverts =	3	Inline Structures =	1
	Bridges =	4	Lateral Structures =	3

Computational Information

Water surface calculation tolerance	=	0.01
Critical depth calculation tolerance	=	0.01
Maximum number of iterations	=	20
Maximum difference tolerance	=	0.3
Flow tolerance factor	=	0.001

Computation Options

Critical depth computed only where necessary	
Conveyance Calculation Method:	At breaks in n values only
Friction Slope Method:	Average Conveyance
Computational Flow Regime:	Subcritical Flow

FLOW DATA

Flow Title: WC 100 OFF

Flow File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.f02

Flow Data (cfs)

River	Reach	RS	100-yr
Walton Creek	lower	1578	1984
Walton Creek	lower-DE	11692	1883
Walton Creek	lower-main split	5893	1523
Walton Creek	lower-main split	3035	1624
Walton Creek	lower-split	1001	360

Boundary Conditions

River	Reach	Profile	Upstream
Downstream			
Walton Creek	lower	100-yr	Known WS =

6755.04

Observed Water Surface Marks

River	Reach	RS	100-yr
Walton Creek	4	13145.60	6819.62
Elk River	7	16700	6586.15
Elk River	7	16534	6597.15
Yampa River	2c	1000651.	6703.45

GEOMETRY DATA

Geometry Title: WC 100 OFF
 Geometry File : S:\2111_00_INM\04_DOCUMENTS\HEC-RAS\CIVIL
 GEO\2022_09_19(FixedModel)\WaltonCreek-PP_Worked.g02

Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
Walton Creek	lower-DE		WC-INM-US-SPLIT
Walton Creek	lower-split	WC-INM-US-SPLIT	HWY40-Split-Comb
Walton Creek	lower-main split	WC-INM-US-SPLIT	HWY40-Split-Comb
Walton Creek	lower	HWY40-Split-Comb	

JUNCTION INFORMATION

Name: HWY40-Split-Comb
 Description:
 Energy computation Method

Length across Junction		Tributary		Reach	Length	Angle
River	Reach	River	Reach			
Walton Creek	lower-main split	to Walton Creek	lower	lower	0	0
Walton Creek	lower-split	to Walton Creek	lower	lower	0	0

Name: WC-INM-US-SPLIT
 Description:
 Energy computation Method

Length across Junction		Tributary		Reach	Length	Angle
River	Reach	River	Reach			
Walton Creek	lower-DE	to Walton Creek	lower-main split	lower-main split	235.25	0
Walton Creek	lower-DE	to Walton Creek	lower-split	lower-split	202.54	0

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 11692

INPUT

Description:

Station Elevation Data		num=		11	
Sta	Elev	Sta	Elev	Sta	Elev
415.91	6805.87	637.68	6803.97	722.61	6803.9
831.18	6799.93	840.84	6799.38	852.13	6799.92
972.55	6817.55			861.68	6801.08
				887.09	6804.16

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
415.91	.06	823.63	.04	887.09	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	823.63	887.09		420 411.17	390.88	.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 11280

INPUT

Description:

Station Elevation Data									
num= 15									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
588.56	6797.39	663.2	6796.97	831.99	6795.47	981.56	6795.32	1038.02	6795.01
1066.23	6795.16	1079.97	6791.73	1082.66	6791.66	1102.17	6791.13	1117.11	6791.82
1128.62	6794.51	1129.73	6794.51	1214.64	6794.4	1305.56	6792.52	1344.92	6814.49

Manning's n Values					
num= 3					
Sta	n Val	Sta	n Val	Sta	n Val
588.56	.06	1038.02	.04	1129.73	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1038.02	1129.73		570	566.57	485.84	.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 10714

INPUT

Description:

Station Elevation Data									
num= 18									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
738.45	6794.9	950.91	6794.29	1092.13	6793.49	1278.77	6794.19	1332.27	6790.66
1338.63	6789.24	1355.63	6788.82	1356.57	6789.41	1479.17	6789.86	1551.22	6786.44
1552.61	6786.37	1569.89	6783.81	1578.77	6790.87	1578.92	6790.97	1585.52	6795.47
1750.87	6800.09	1787.96	6811.06	1846.69	6816.47				

Manning's n Values					
num= 3					
Sta	n Val	Sta	n Val	Sta	n Val
738.45	.06	1278.77	.04	1585.52	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1278.77	1585.52		505.72	625.08	497.71	.1	.3

Ineffective Flow			
num= 2			
Sta L	Sta R	Elev	Permanent
738.45	1278.77	6794.19	F
1585.52	1846.69	6795.47	F

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 9997

INPUT

Description:

Station Elevation Data									
num= 18									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6799.52	32.21	6790.56	66.38	6786.26	69.45	6784.56	73.65	6782.24
83.3	6781.76	89.94	6782.33	102.35	6783.16	113.59	6783.92	247.13	6785.04
254.88	6783.74	394.82	6785.39	397.59	6783.43	418.67	6782.76	432.39	6783.36
436.95	6785.14	554.69	6784.03	576.99	6786.1				

Manning's n Values					
num= 3					
Sta	n Val	Sta	n Val	Sta	n Val
0	.06	69.45	.04	113.59	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	69.45	113.59		498.86	617.68	510	.1	.3

Ineffective Flow			
num= 1			
Sta L	Sta R	Elev	Permanent
467.68	576.99	6787	F

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 9471

INPUT

Description:

Station		Elevation Data		num=		24					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
165.84	6783.91	387.29	6783.83	518.81	6784.53	548.23	6782.94	724.7	6783.48		
846.56	6785.35	861	6782.7	1038.1	6783.83	1272.58	6784.3	1524.02	6782.97		
1585.99	6779.6	1698.12	6780.07	1701.86	6779.16	1737.4	6776.43	1742.23	6776.08		
1750.39	6775.5	1760.21	6776.59	1765.17	6777.23	1766.48	6783.35	1787.38	6794.58		
1787.4	6794.58	1787.41	6794.58	1795.02	6794.54	1820.51	6794.41				

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
165.84	.06	1698.12	.04	1766.48	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1698.12	1766.48		313.68	444.1	280.09	.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 9027

INPUT

Description:

Station		Elevation Data		num=		23					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6780	0	6775.83	173.67	6775.69	509.29	6777.88	806.71	6777.77		
834.13	6775.44	918.02	6776.32	1115.95	6776.78	1185.87	6776.2	1196.12	6778.36		
1432.2	6776.9	1497.74	6778.09	1538.77	6777.46	1615.06	6778.28	1636.06	6773.68		
1643.98	6773.7	1665.36	6773.74	1688.26	6773.9	1696.18	6773.96	1709.98	6776.8		
1807.12	6778.08	1813.63	6782.15	1845.09	6798.51						

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1615.06	.04	1709.98	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1615.06	1709.98		285.55	293.44	280.09	.1	.3

Ineffective Flow		num=		2	
Sta L	Sta R	Elev	Permanent		
-50	1615.06	6778.28	F		
1709.98	1845.09	6776.8	F		

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 8734

INPUT

Description:

Station		Elevation Data		num=		22					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6778.2	0	6771.38	50.46	6772.1	258.79	6774.57	573.79	6774.57		
853.9	6774.73	977.79	6775.52	1363.04	6775.91	1475.62	6775.6	1518.36	6775.95		
1528.1	6772.39	1529.32	6772.35	1543.98	6771.83	1563.92	6772.32	1564.29	6772.34		
1594.06	6773.63	1685.1	6775.06	1709.11	6773.53	1712.5	6773.86	1724.31	6776.46		
1800.11	6779.29	1840.34	6793.84								

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1518.36	.04	1724.31	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1518.36	1724.31		275	331.69	275	.1	.3

Ineffective Flow		num=		2	
Sta L	Sta R	Elev	Permanent		
-50	1375	6780	F		

1724.31 1840.34 6776.46 F

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 8402

INPUT

Description:

Station Elevation Data		num=		38							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6776.65	-4.06	6772.88	4.85	6772.88	42.29	6773.17	192.67	6774.12		
233.69	6774.12	367.84	6773.22	523.08	6774.01	579.47	6774.32	780.41	6774.66		
844.65	6774.98	894.23	6775.1	1046.88	6775.02	1248.16	6775.42	1303.2	6775.42		
1351.59	6775.57	1390.85	6775.92	1402.4	6773.23	1403.84	6773.1	1404.19	6773.06		
1404.46	6773.04	1421.22	6772.45	1436.61	6772.92	1436.89	6772.94	1443.95	6773.24		
1448.26	6773.52	1459.86	6773.87	1477.13	6774.08	1530.11	6774.72	1548.64	6774		
1551.25	6774.17	1556.36	6774.9	1560.36	6776.06	1698.15	6779.02	1744.88	6778.47		
1795.32	6781.23	1805.06	6784.42	1842.8	6790.67						

Manning's n Values

Sta		n Val		Sta		n Val		Sta		n Val	
-50		.06	1390.85		.04	1560.36				.06	

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1390.85	1560.36		275 331.69	275		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	1060	6780	F
1560.365	1842.86	6776.065	F

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 8070

INPUT

Description:

Station Elevation Data		num=		21							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6775.1	0	6774.25	171.2	6774.21	330.86	6771.88	523.77	6774.03		
765.48	6774.78	949.81	6774.35	1183.45	6775.1	1263.35	6775.88	1278.77	6773.79		
1279.08	6773.75	1298.46	6773.07	1314.46	6773.74	1317.5	6774.07	1337.82	6774.18		
1393.6	6774.49	1396.42	6775.67	1615.39	6779.47	1769.81	6775.67	1785.29	6780.6		
1845.27	6787.5										

Manning's n Values

Sta		n Val		Sta		n Val		Sta		n Val	
-50		.06	1263.35		.04	1396.42				.06	

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1263.35	1396.42		335 493.05	345.36		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	745	6780	F
1396.42	1845.27	6775.67	F

CROSS SECTION

RIVER: Walton Creek

REACH: lower-DE RS: 7577

INPUT

Description:

Station Elevation Data		num=		22							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6772.2	0	6767.31	455.55	6768.05	615.43	6767.45	649.69	6764.46		
656.34	6763.68	660.91	6764.89	672.06	6765.83	741.01	6766.88	948.06	6768.26		

956.75	6766.72	1419.51	6770.5	1485.64	6767.88	1505.99	6766.43	1509.48	6766.18
1519.66	6765.79	1530.42	6766.3	1530.49	6766.31	1561.09	6769.97	1704.49	6771.02
1872.69	6772.44	1884.84	6778.16						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	1419.51	.04	1561.09	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	1419.51	1561.09		132.77	132.77		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-50	430	6775	F
1561.09	1884.84	6769.97	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 7176.41

INPUT

Description:

Station	Elevation	Data	num=	492					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-50	6771.28	-49.25	6771.26	-47.83	6771.25	-44.25	6771.28	-39.25	6771.21
-37.81	6771.18	-34.25	6771.05	-29.25	6770.12	-27.78	6769.88	-24.25	6769.18
-22.77	6769.02	-19.25	6768.7	-14.25	6767.87	-12.74	6767.89	-9.25	6767.61
-5.78	6766.56	-4.25	6766.07	-2.72	6766.38	.75	6767.16	2.29	6766.93
5.75	6766.72	7.31	6766.73	10.75	6766.72	12.32	6766.75	15.75	6766.76
17.33	6766.73	22.34	6766.71	25.75	6766.57	27.35	6766.56	30.75	6766.66
32.37	6766.67	35.75	6766.72	39.11	6766.7	40.75	6766.73	45.75	6766.88
52.42	6766.97	55.75	6767.07	57.43	6767.07	60.75	6767.04	62.44	6767.09
65.75	6767.25	67.45	6767.34	70.75	6767.47	72.47	6767.42	75.75	6767.27
77.48	6767.23	80.75	6767.26	84	6767.26	85.75	6767.25	87.5	6767.21
90.75	6766.99	92.52	6767.01	97.53	6766.98	100.75	6766.99	102.54	6766.98
105.75	6767.01	107.55	6766.96	110.75	6766.9	112.57	6766.8	115.75	6766.44
117.58	6766.44	120.75	6766.54	122.59	6766.53	125.75	6766.42	128.89	6766.34
132.62	6766.21	135.75	6766.32	137.63	6766.32	140.75	6766.37	142.64	6766.46
145.75	6766.48	147.65	6766.6	150.75	6766.63	152.67	6766.56	155.75	6766.46
157.68	6766.43	160.75	6766.49	162.69	6766.32	165.75	6766.13	167.7	6766.2
170.75	6766.26	173.78	6766.42	175.75	6766.54	177.73	6766.61	180.75	6766.69
182.74	6766.63	185.75	6766.63	187.75	6766.61	190.75	6766.51	192.77	6766.55
195.75	6766.58	197.78	6766.62	202.79	6766.67	205.75	6766.75	207.8	6766.79
210.75	6766.76	212.82	6766.78	215.75	6766.85	218.67	6767.42	220.75	6767.67
222.84	6768.32	225.75	6768.96	227.85	6769.2	230.75	6769.67	232.86	6770.11
235.75	6770.61	237.88	6770.99	240.75	6771.41	242.89	6771.61	245.75	6771.96
247.9	6772.27	250.75	6772.58	252.91	6772.84	255.75	6773.03	257.93	6773.21
260.75	6773.36	263.56	6773.47	265.75	6773.46	270.75	6773.71	272.98	6773.93
275.75	6774.15	280.75	6774.59	283.04	6774.84	285.75	6775.1	288.05	6775.06
290.75	6774.91	293.06	6774.64	295.75	6774.25	300.75	6773.78	303.09	6773.65
305.75	6773.46	308.4	6773.19	310.75	6773	313.12	6772.79	315.75	6772.58
318.13	6772.47	320.75	6772.37	323.14	6772.3	325.75	6772.19	330.75	6771.86
333.17	6771.64	335.75	6771.42	338.18	6771.11	340.75	6770.9	343.19	6770.76
345.75	6770.67	348.21	6770.61	350.75	6770.58	353.28	6770.56	355.75	6770.5
358.23	6770.59	360.75	6770.71	363.24	6770.94	365.75	6771.22	368.26	6771.6
370.75	6771.92	375.75	6772.53	378.28	6772.76	380.75	6772.96	383.29	6773.4
385.75	6773.77	388.31	6774.19	390.75	6774.66	393.32	6775.06	395.75	6775.39
398.17	6775.62	400.75	6775.93	405.75	6776.07	408.36	6776.04	410.75	6776
413.37	6775.92	415.75	6775.87	418.38	6775.73	423.4	6775.24	425.75	6775.02
428.41	6774.78	430.75	6774.45	433.43	6774.2	435.75	6773.88	440.75	6772.67
443.04	6772.2	445.75	6771.59	448.47	6770.8	450.75	6770.53	453.49	6770.08
455.75	6769.76	458.5	6769.36	460.75	6769.05	463.52	6769.1	465.75	6768.89
468.53	6768.68	470.75	6768.41	473.55	6768.39	475.75	6768.1	480.75	6767.78
485.75	6767.61	487.91	6767.63	490.75	6767.43	493.61	6767.17	495.75	6767.11
498.63	6766.92	500.75	6766.87	503.64	6767.1	505.75	6767.33	508.66	6767.08
510.75	6767.01	513.67	6766.56	515.75	6766.23	518.69	6765.98	520.75	6766.02
523.7	6765.83	525.75	6765.66	528.72	6765.62	530.75	6765.52	532.77	6765.56
535.75	6765.5	538.75	6766.1	540.75	6766.54	543.76	6766.75	545.75	6766.75
548.78	6766.56	550.75	6766.62	553.79	6766.87	555.75	6766.98	558.81	6766.96
560.75	6766.84	563.82	6767.03	565.75	6767.1	568.84	6767.28	570.75	6767.42

573.85	6767.67	575.75	6767.88	577.64	6767.91	580.75	6767.9	583.88	6767.99
585.75	6767.93	588.9	6767.97	590.75	6768.05	593.91	6768.15	595.75	6768.19
598.93	6768.16	600.75	6768.18	603.9	6768.19	605.75	6768.12	608.93	6768.13
610.81	6768.18	613.98	6768.37	615.75	6768.44	618.99	6768.36	620.75	6768.36
622.51	6768.29	625.75	6768.13	629.02	6768.1	630.75	6768.07	634.03	6768.11
635.75	6768.16	639.04	6768.1	640.75	6768.12	644.06	6768.18	645.75	6768.14
649.07	6768.12	650.75	6768.07	654.08	6767.99	655.75	6767.99	659.1	6767.96
664.11	6768.08	665.75	6768.07	669.13	6767.98	672.37	6768.03	675.75	6768.15
679.15	6768.17	684.17	6768.23	685.75	6768.16	689.18	6768.17	690.75	6768.21
694.19	6768.21	695.75	6768.24	699.21	6768.22	704.22	6768.41	705.75	6768.36
709.23	6768.32	710.75	6768.31	714.25	6768.24	715.75	6768.15	717.25	6768.22
720.75	6768.27	724.28	6768.36	725.75	6768.41	730.75	6768.37	734.3	6768.33
735.75	6768.32	739.32	6768.27	740.75	6768.24	745.75	6768.39	750.75	6768.5
754.36	6768.51	755.75	6768.53	759.37	6768.42	760.75	6768.37	765.75	6768.59
769.4	6768.62	770.75	6768.64	775.75	6768.5	779.43	6768.49	780.75	6768.52
784.44	6768.57	785.75	6768.62	789.45	6768.56	790.75	6768.5	794.47	6768.52
795.75	6768.55	799.48	6768.58	800.75	6768.57	804.49	6768.51	805.75	6768.46
809.51	6768.34	810.75	6768.29	814.52	6768.11	815.75	6768.11	819.53	6768.24
824.55	6768.25	825.75	6768.26	829.56	6767.97	830.75	6767.99	834.58	6767.71
835.75	6767.7	839.59	6767.14	840.75	6766.95	844.6	6766.57	845.75	6766.54
849.62	6765.72	850.75	6765.37	854.63	6765.47	855.75	6765.39	859.64	6765.49
860.75	6765.47	864.66	6765.38	865.75	6765.37	869.67	6765.26	870.75	6765.2
874.68	6765.03	875.75	6765.03	879.7	6765.08	880.75	6765.11	884.71	6765.34
885.75	6765.37	889.72	6765.43	890.75	6765.44	896.76	6765.36	900.75	6765.26
905.75	6765.37	909.78	6765.31	910.75	6765.33	915.75	6765.5	919.83	6765.21
920.69	6765.11	920.75	6765.1	924.85	6765.4	925.75	6765.38	927.51	6765.46
929.87	6765.58	930.75	6765.59	934.87	6766	935.75	6766.06	939.87	6766.37
941.57	6766.42	944.88	6766.53	945.75	6766.49	949.89	6766.47	950.75	6766.51
954.9	6766.21	955.75	6766.23	959.92	6766.29	960.75	6766.31	965.75	6766.62
969.94	6766.83	970.75	6766.83	974.96	6766.43	975.75	6766.37	979.97	6766.71
980.75	6766.74	981.53	6766.72	985.75	6766.56	990	6766.59	990.75	6766.56
995.01	6766.42	995.75	6766.42	1000.03	6766.32	1000.75	6766.33	1005.04	6766.56
1005.75	6766.54	1010.05	6766.14	1010.75	6766.14	1015.07	6765.84	1015.75	6765.85
1020.08	6765.55	1020.75	6765.59	1025.75	6765.38	1030.11	6765.27	1035.12	6765.29
1035.75	6765.27	1040.14	6765.23	1040.75	6765.21	1045.75	6765.24	1050.17	6765.2
1050.75	6765.2	1055.18	6764.99	1055.75	6764.97	1060.19	6765	1060.75	6764.99
1065.21	6764.98	1065.75	6764.99	1070.22	6765.21	1070.75	6765.26	1075.23	6765.3
1076.27	6765.28	1080.75	6765.18	1085.26	6765.14	1085.75	6765.13	1090.28	6765.08
1100.3	6765.06	1100.75	6765.1	1105.32	6765.25	1105.75	6765.28	1110.33	6765.53
1110.75	6765.56	1115.34	6765.81	1115.75	6765.84	1120.36	6766.23	1120.75	6766.24
1125.37	6767.03	1125.75	6767.07	1130.39	6767.24	1135.75	6767.43	1140.75	6767.41
1145.43	6767.8	1150.75	6768.17	1155.45	6768.55	1155.75	6768.59	1160.47	6769.04
1161.04	6769.05	1165.75	6769.23	1170.5	6769.12	1170.75	6769.1	1175.51	6769.18
1175.75	6769.17	1180.52	6769.36	1180.75	6769.36	1185.75	6769.05	1190.55	6768.64
1190.75	6768.64	1195.56	6768.78	1195.75	6768.78	1200.75	6769.13	1205.75	6769.08
1210.61	6768.99	1215.62	6768.68	1215.75	6768.68	1220.63	6768.89	1220.69	6768.89
1225.65	6769.14	1225.75	6769.15	1230.66	6769.28	1230.75	6769.29	1235.75	6769.5
1240.69	6769.09	1240.75	6769.08	1245.7	6769.45	1250.75	6769.34	1255.73	6769.47
1260.75	6769.49	1265.75	6769.39	1270.75	6769.28	1275.75	6769.19	1280.75	6769.14
1280.8	6769.13	1285.75	6768.96	1290.83	6768.88	1295.75	6768.59	1300.85	6768.76
1305.75	6769.05	1310.75	6769.4	1311.75	6769.4	1311.75	6769.09	1318.66	6769.76
1418.49	6770.25	1509.04	6770.83	1553.8	6771.14	1572.11	6773.17	1728.53	6774.98
1732.35	6775	1748.48	6778.83						

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
-50	.06	835.75	.04	1135.75	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	835.75	1135.75		163.08	163.08	163.08		.1	.3
Ineffective Flow	num= 2								
Sta L	Sta R	Elev	Permanent						
-50	406.04	6776.07	F						
1165.73	1748.48	6771.14	F						

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 6775.68

INPUT

Description:

Station	Elevation	Data	num=	496					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6770.42	1.28	6770.42	6	6770.18	7.28	6770.11	10.92	6770.2
12.28	6770.21	17.28	6769.98	20.77	6769.91	22.28	6769.89	25.69	6769.67
27.28	6769.48	30.61	6768.83	32.28	6768.63	37.28	6767.24	40.45	6766.43
42.28	6765.98	44.17	6765.37	47.28	6764.55	50.3	6764.99	52.28	6765.42
55.22	6765.49	57.28	6765.53	60.14	6765.67	62.28	6765.76	65.06	6765.69
67.28	6765.57	69.98	6765.54	72.28	6765.43	74.9	6765.27	77.29	6765.16
79.83	6765.12	82.29	6765.14	84.75	6765.21	87.29	6765.34	89.91	6765.32
92.29	6765.24	94.59	6765.26	97.29	6765.19	99.51	6765.08	102.29	6764.98
104.43	6764.92	107.29	6764.9	112.29	6764.7	114.28	6764.72	117.29	6764.77
119.2	6764.79	122.29	6764.66	124.12	6764.78	127.29	6764.96	132.29	6764.98
135.65	6765.03	137.29	6764.99	138.89	6765.04	142.29	6764.97	143.81	6765
147.29	6765.2	148.73	6765.2	152.3	6765.24	153.65	6765.17	157.3	6764.88
158.57	6764.79	163.49	6764.82	167.3	6764.91	168.42	6765	172.3	6765.14
173.34	6765.2	177.3	6765.18	181.39	6764.93	183.18	6764.94	187.3	6765.14
188.1	6765.15	193.02	6765.13	197.3	6765.01	202.3	6764.86	202.87	6764.86
207.3	6764.98	207.79	6765	212.3	6765.44	217.3	6765.47	217.63	6765.46
227.13	6765.58	232.4	6765.56	237.31	6765.28	242.31	6765.23	247.31	6765.55
252.31	6765.7	257.01	6765.76	257.31	6765.77	261.93	6766.06	262.31	6766.09
266.85	6766.2	267.79	6766.17	272.31	6766.15	276.69	6766.56	277.31	6766.59
281.61	6766.72	282.31	6766.75	286.54	6766.68	287.31	6766.7	291.46	6766.61
292.31	6766.54	296.38	6766.55	297.31	6766.66	301.3	6766.96	302.31	6766.99
306.22	6767.06	307.32	6767.03	311.14	6767.06	313.53	6766.96	317.32	6766.47
320.99	6766.26	322.32	6766.05	325.91	6766.34	327.32	6766.32	330.83	6766.4
332.32	6766.41	335.75	6765.14	337.32	6764.61	340.67	6764.22	342.32	6764.11
345.6	6763.84	347.32	6763.87	350.52	6763.89	352.32	6763.92	355.44	6764.16
357.32	6764.23	359.27	6764.22	362.32	6763.97	365.28	6764.11	367.32	6764.01
370.2	6764.13	372.32	6764.29	375.13	6764.22	377.32	6764.21	380.05	6764.21
382.32	6764.18	384.97	6764.09	387.33	6764.05	389.89	6764.08	392.33	6764.16
394.81	6764.22	397.33	6764.14	399.73	6764.19	402.33	6764.23	405.01	6764.16
407.33	6764.07	409.58	6763.94	412.33	6763.76	414.5	6763.88	419.42	6764.07
422.33	6764.27	429.26	6764.17	432.33	6764.09	434.19	6764.06	437.33	6764.11
439.11	6764.13	442.33	6764.05	444.03	6764	447.33	6763.93	450.75	6763.95
452.33	6763.94	453.87	6764.06	457.33	6764.38	458.79	6764.37	462.34	6764.49
463.72	6764.57	467.34	6764.41	468.64	6764.42	472.34	6764.53	473.56	6764.51
477.34	6764.83	478.48	6764.91	482.34	6764.87	483.4	6764.87	488.32	6764.68
492.34	6764.61	496.49	6764.9	497.34	6764.91	498.17	6764.96	502.34	6764.93
507.34	6765.04	508.01	6765.1	512.34	6765.29	512.93	6765.38	517.34	6766.26
517.85	6766.29	522.34	6766.88	522.78	6766.87	527.34	6766.87	527.7	6766.85
532.34	6766.3	537.34	6766.18	542.23	6766.25	542.46	6766.27	547.35	6766.57
552.31	6766.85	557.23	6766.96	557.35	6766.97	562.15	6767.12	562.35	6767.12
567.07	6766.83	567.35	6766.84	571.99	6766.09	572.35	6766.06	576.91	6765.59
577.35	6765.51	581.84	6764.85	582.88	6764.78	587.35	6765.57	591.68	6765.51
592.35	6765.49	596.6	6764.85	601.52	6764.6	602.35	6764.58	606.44	6764.79
607.35	6764.88	611.37	6765.01	612.35	6764.96	616.29	6764.98	617.36	6765.01
621.21	6764.85	622.36	6764.84	626.13	6765.36	627.36	6765.51	628.62	6765.83
632.36	6766.17	635.97	6767.31	637.36	6767.47	640.9	6767.74	642.36	6767.73
645.82	6767.53	647.36	6767.47	650.74	6767.26	652.36	6767.19	655.66	6766.93
657.36	6766.87	660.58	6766.78	662.36	6766.84	665.5	6767.02	670.43	6767.23
672.36	6767.24	674.36	6767.27	677.36	6767.29	680.27	6767.39	682.36	6767.32
685.19	6767.17	687.36	6767.03	690.11	6766.95	692.36	6766.87	695.03	6766.8
697.37	6766.85	699.96	6766.79	702.37	6766.75	704.88	6766.93	707.37	6766.92
709.8	6766.76	712.37	6766.76	714.72	6766.73	717.37	6766.63	719.64	6766.47
722.37	6766.5	727.37	6766.41	729.49	6766.39	734.41	6766.28	737.37	6765.99
739.33	6766.03	742.37	6765.84	744.25	6765.41	747.37	6764.91	749.17	6764.87
752.37	6765.07	754.09	6765.13	757.37	6765.19	759.02	6765.32	762.37	6765.66
765.84	6765.48	767.37	6765.46	770.92	6765.44	772.38	6765.42	773.78	6765.69
777.38	6766.41	778.7	6766.5	782.38	6766.82	783.62	6766.88	788.55	6766.99
792.38	6767.15	793.47	6767.24	797.38	6767.71	798.39	6767.87	802.38	6768.28
803.31	6768.17	807.38	6768.05	808.23	6767.95	812.38	6767.12	816.66	6766.82
817.38	6766.78	818.07	6766.71	822.38	6766.5	827.38	6765.42	827.92	6765.44
832.38	6765.16	833.69	6765.16	837.38	6765.16	837.76	6765.17	842.68	6765.17
847.6	6765.16	852.39	6765.56	857.39	6766.18	857.45	6766.18	858.69	6766.28
862.37	6766.59	867.29	6766.58	867.39	6766.59	872.39	6767.49	877.13	6766.57
877.39	6766.51	882.06	6765.73	882.39	6765.7	886.98	6765.94	887.39	6765.92
891.9	6766.52	892.39	6766.54	896.82	6766.59	897.39	6766.65	901.74	6766.92
902.39	6766.99	906.66	6767.02	911.59	6766.9	912.39	6766.95	916.51	6766.73
917.39	6766.64	921.43	6766.78	922.39	6766.78	926.35	6767.18	927.4	6767.28

931.27	6767.25	932.4	6767.28	936.19	6767.25	937.4	6767.25	941.12	6767.28
942.4	6767.25	947.4	6767.36	948.8	6767.4	952.4	6767.26	957.4	6767.2
960.8	6767	962.4	6766.84	965.72	6767.12	967.4	6767.23	970.65	6767.3
972.4	6767.37	975.57	6767.12	977.4	6766.95	980.49	6766.86	982.4	6766.79
985.41	6766.91	987.4	6767.07	990.33	6767.2	992.4	6767.19	995.25	6766.97
997.4	6766.86	1000.18	6766.92	1002.4	6766.92	1005.1	6766.91	1007.41	6766.94
1010.02	6767.04	1012.41	6767.06	1017.41	6766.91	1019.86	6766.71	1022.41	6766.52
1024.78	6766.5	1027.41	6766.5	1029.71	6766.9	1032.41	6767.26	1035.2	6767.22
1037.41	6767.06	1039.55	6767.16	1042.41	6767.07	1044.47	6767.12	1047.41	6767.49
1049.39	6767.46	1052.41	6767.32	1054.31	6767.36	1057.41	6767.34	1059.24	6767.4
1062.41	6767.58	1064.16	6767.62	1067.41	6767.57	1072.41	6767.45	1074	6767.35
1077.41	6767.28	1078.92	6767.27	1082.41	6767.41	1083.84	6767.49	1087.42	6767.42
1088.77	6767.52	1092.42	6767.64	1093.69	6767.86	1097.42	6768.46	1098.61	6768.45
1102.42	6768.77	1103.53	6768.78	1108.45	6768.7	1112.42	6768.79	1113.37	6768.79
1117.42	6768.58	1122.42	6768.53	1123.22	6768.57	1127.42	6768.84	1133.06	6768.87
1137.98	6768.67	1142.42	6768.36	1147.42	6768.51	1147.83	6768.51	1152.42	6768.64
1152.75	6768.66	1157.42	6769.21	1157.67	6769.26	1162.43	6770.33	1167.43	6771.95
1167.51	6771.97	1172.43	6773.76	1172.95	6773.94	1177.36	6775.4	1182.28	6775.81
1187.2	6776.3	1187.43	6776.34	1192.43	6776.36	1197.04	6776.56	1197.43	6776.55
1201.96	6776.29	1206.89	6776.32	1207.43	6776.31	1211.81	6776.05	1213.08	6775.99
1217.43	6775.81	1221.65	6775.52	1222.43	6775.48	1226.57	6775.13	1227.43	6775.15
1231.49	6775.35	1232.43	6775.34	1237.43	6775.4	1241.34	6775.42	1242.44	6775.41
1247.44	6775.54	1251.18	6775.67	1252.44	6775.61	1257.44	6775.67	1261.02	6775.79
1262.44	6775.82	1265.95	6775.85	1267.44	6775.95	1270.87	6776.04	1272.44	6775.99
1275.79	6776.4	1277.44	6776.29	1280.71	6775.69	1282.44	6775.36	1285.63	6776.04
1287.44	6776.28	1290.55	6776.24	1292.44	6776.44	1295.48	6776.19	1297.44	6775.98
1300.4	6775.74	1302.44	6775.34	1305.32	6775.09	1307.44	6774.31	1309.64	6773.2
1312.44	6772.15	1315.16	6770.36	1317.45	6769.22	1320.08	6767.86	1322.45	6767.7
1325.01	6767.22	1327.45	6767.13	1329.93	6766.99	1332.45	6766.91	1334.85	6766.91
1337.45	6766.94	1339.77	6766.83	1342.45	6766.73	1344.69	6766.8	1347.45	6766.82
1349.61	6766.8	1354.54	6766.89	1357.45	6766.84	1359.46	6766.84	1364.38	6766.92
1367.45	6766.95	1419.83	6770.98	1442.67	6774.91	1637.78	6777.54	1642.55	6777.55
1662.67	6779.49								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	818.07	.04	862.37	.06

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	818.07	862.37		132.85	132.85		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	802.26	6768.28	F
1103.4	1662.67	6770	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-DE RS: 6375

INPUT

Description:

Station	Elevation	Data	num=	494
Sta	Elev	Sta	Elev	Sta Elev Sta Elev
0	6766.21	.32	6766.21	.32 6769.33 1.32 6769.31 4.73 6769.22
6.33	6769.15	9.57	6769.12	11.33 6769.08 14.41 6768.96 19.25 6768.74
21.34	6768.66	24.09	6768.5	26.34 6768.3 28.93 6767.32 31.34 6766.53
33.77	6765.93	36.34	6765.36	39.1 6764.59 41.35 6764.08 43.45 6764.12
46.35	6764.2	48.29	6764.52	51.35 6764.72 53.13 6764.8 56.36 6765.21
57.97	6765.22	61.36	6764.76	62.81 6764.44 66.36 6764.14 67.65 6764.08
71.36	6763.94	72.49	6763.92	76.37 6763.95 81.37 6763.74 85.69 6763.82
86.37	6763.84	87.01	6763.83	91.85 6763.84 96.38 6763.97 96.69 6763.97
101.38	6764.2	101.53	6764.22	106.38 6764.51 111.21 6765.01 116.39 6765.33
121.39	6765.66	126.39	6765.66	131.4 6765.59 135.41 6765.53 136.4 6765.55
140.25	6765.6	141.4	6765.56	146.41 6765.55 149.93 6765.46 151.41 6765.41
156.41	6765.35	159.61	6765.37	161.41 6765.37 164.45 6765.36 166.42 6765.32
169.29	6765.31	173.7	6765.41	176.42 6765.44 178.97 6765.54 181.43 6765.54
183.81	6765.6	186.43	6765.61	188.65 6765.56 191.43 6765.51 193.49 6765.54
196.43	6765.51	198.33	6765.53	201.44 6765.65 203.17 6765.62 206.44 6765.63
208.01	6765.54	211.44	6765.46	212.84 6765.47 216.45 6765.65 220.3 6765.42

226.45	6765.39	227.36	6765.38	231.45	6765.41	232.2	6765.42	236.46	6765.36
237.04	6765.34	241.46	6765.23	241.88	6765.23	246.46	6765.39	246.72	6765.42
251.56	6765.49	256.47	6765.32	258.41	6765.24	261.72	6765.09	266.47	6765.15
270.92	6763.67	271.48	6763.54	275.76	6762.98	276.48	6762.84	280.6	6762.48
281.48	6762.45	284.93	6762.5	285.44	6762.51	286.49	6762.4	290.28	6762.33
291.49	6762.36	296.49	6762.24	299.96	6762.67	301.49	6762.65	304.8	6762.63
306.5	6762.85	308.31	6762.97	311.5	6763.5	314.48	6763.63	316.5	6763.95
319.32	6763.89	321.51	6763.76	324.16	6763.94	326.51	6763.95	329	6763.97
331.51	6764.11	333.84	6764.17	336.51	6764.34	338.68	6764.76	341.52	6765.34
343.52	6765.29	346.52	6764.75	348.36	6764.58	351.52	6764.57	354.91	6764.74
356.53	6764.95	358.04	6764.77	361.53	6764.57	362.88	6764.44	366.53	6764.28
367.72	6764.36	371.53	6764.68	372.56	6764.64	376.54	6764.24	377.4	6764.22
381.54	6764.21	382.24	6764.27	386.54	6764.49	387.08	6764.41	391.55	6764.08
396.55	6764.21	401.6	6764.69	406.44	6764.87	406.55	6764.89	411.28	6765.44
411.56	6765.45	416.12	6765.17	416.56	6765.17	420.96	6765.12	421.56	6765.12
425.8	6765.05	426.57	6765.07	430.64	6764.9	431.57	6764.92	435.48	6765.31
436.57	6765.24	440.32	6764.7	441.57	6764.58	442.92	6764.63	446.58	6764.39
450	6764.16	451.58	6763.99	454.84	6763.97	456.58	6763.84	459.68	6764.27
461.58	6764.42	464.52	6764.13	466.59	6764.15	469.36	6764.41	471.59	6764.21
474.2	6764.02	476.59	6764.3	479.03	6764.18	481.6	6764.26	483.87	6764.41
486.6	6764.27	489.51	6764.02	491.6	6763.78	493.55	6764.02	496.6	6764.74
498.39	6764.9	501.61	6764.75	503.23	6764.94	506.61	6765.59	508.07	6765.83
511.61	6766.17	512.91	6766.21	516.62	6766.4	517.75	6766.41	521.62	6766.3
522.59	6766.28	526.62	6766.24	527.43	6766.21	531.62	6766.09	536.11	6766.15
541.63	6766.3	546.63	6766.26	551.52	6765.98	551.63	6765.97	556.47	6766.33
556.64	6766.31	561.31	6766.85	561.64	6766.95	566.15	6766.7	566.64	6766.65
570.99	6766.39	571.65	6766.34	575.83	6766.58	576.65	6766.49	577.53	6766.56
581.65	6766.76	585.51	6766.51	586.66	6766.4	591.66	6765.9	595.19	6765.99
596.66	6765.98	600.03	6765.78	601.66	6765.9	604.87	6765.45	606.67	6765.44
609.71	6766.41	611.67	6766.64	614.55	6766.35	616.67	6766.4	619.39	6766.44
621.68	6766.11	626.68	6765.9	631.68	6766.43	633.91	6766.47	636.68	6766.62
638.75	6766.52	641.69	6766.51	643.59	6766.54	646.69	6766.56	648.43	6766.45
651.69	6766.3	653.27	6766.33	656.7	6766.31	658.11	6766.29	661.7	6766.36
662.95	6766.35	666.7	6766.4	670.72	6766.4	671.7	6766.42	672.63	6766.41
676.71	6766.5	681.71	6766.68	682.31	6766.67	686.71	6766.68	691.72	6766.82
696.72	6766.98	701.72	6766.93	706.51	6766.91	711.35	6767.08	711.73	6767.1
716.19	6766.93	717.31	6766.87	721.73	6766.5	725.87	6766.42	726.74	6766.35
730.71	6766.33	731.74	6766.4	735.55	6766.41	740.39	6766.36	741.74	6766.36
745.22	6766.23	746.75	6766.13	750.06	6765.6	751.75	6765.4	754.9	6765.28
756.75	6765.08	758.73	6765.65	761.76	6766.26	764.58	6766.13	766.76	6766.17
769.42	6765.98	771.76	6766.01	774.26	6765.9	776.76	6765.33	779.1	6765.4
781.77	6765.35	783.94	6765.77	786.77	6766.09	788.78	6766.15	791.77	6766.61
793.62	6766.57	796.77	6766.6	798.46	6766.51	801.78	6766.1	803.3	6765.72
805.9	6765.17	806.78	6764.98	808.54	6764.85	811.78	6764.62	813	6764.66
816.79	6764.56	817.86	6764.46	821.79	6764.27	822.71	6764.3	826.79	6764.65
827.56	6764.67	831.79	6765.04	832.41	6765.07	833.54	6765.06	836.79	6765.04
837.27	6765.06	841.8	6765.03	842.12	6765.04	846.8	6765.05	851.8	6764.94
856.8	6765.81	861.53	6766.11	861.81	6766.11	866.39	6766.01	866.81	6765.95
871.24	6765.09	871.81	6765.15	876.09	6766.24	876.81	6766.35	880.95	6766.34
881.82	6766.29	885.8	6766.34	886.82	6766.27	890.65	6765.75	891.82	6765.69
895.51	6766.21	896.82	6766.38	898.22	6766.37	901.83	6766.29	905.21	6766.49
910.07	6766.58	911.83	6766.63	914.92	6766.64	916.83	6766.58	919.77	6766.5
924.63	6766.47	926.84	6766.43	929.48	6766.44	931.84	6766.52	934.33	6766.53
936.84	6766.58	939.51	6766.66	941.84	6766.77	944.04	6766.79	946.85	6766.9
948.89	6766.9	951.85	6766.88	953.75	6766.8	956.85	6766.68	958.6	6766.65
961.85	6766.49	966.86	6766.5	968.31	6766.49	971.86	6766.52	973.16	6766.52
976.86	6766.57	978.01	6766.53	981.86	6766.66	982.87	6766.67	986.87	6766.66
991.12	6766.13	992.57	6766.06	996.87	6765.89	1001.87	6765.98	1002.28	6765.98
1006.87	6765.74	1011.88	6765.8	1011.98	6765.79	1015.48	6765.71	1016.88	6765.67
1021.69	6765.73	1021.88	6765.74	1026.54	6766.67	1027.25	6766.76	1031.89	6766.93
1036.25	6766.87	1036.89	6766.84	1041.89	6767.15	1045.96	6767.33	1046.89	6767.43
1050.81	6767.56	1051.9	6767.57	1055.66	6767.65	1056.9	6767.7	1060.52	6767.71
1065.37	6767.65	1066.9	6767.62	1070.22	6767.5	1071.91	6767.5	1075.08	6767.33
1076.91	6767.22	1078.86	6767.42	1081.91	6767.76	1084.78	6767.9	1086.91	6767.96
1089.64	6767.94	1091.92	6767.96	1094.49	6768.03	1096.92	6768.08	1099.34	6768.1
1101.92	6768.1	1104.2	6768.07	1106.92	6768.05	1109.05	6768	1111.92	6767.88
1113.9	6767.84	1116.93	6767.83	1120.14	6767.8	1121.93	6767.84	1123.61	6767.84
1128.46	6767.78	1133.32	6767.82	1136.94	6767.91	1138.17	6767.92	1141.94	6767.91
1143.02	6767.9	1147.88	6767.91	1151.94	6767.89	1156.95	6768	1157.58	6768.03
1161.95	6768.19	1162.44	6768.18	1166.95	6768.21	1171.75	6768.15	1172.14	6768.15
1176.96	6768.07	1176.99	6768.06	1181.96	6767.6	1186.7	6767.59	1186.96	6767.58

1191.55	6767.5	1196.41	6767.37	1196.96	6767.35	1201.26	6767.16	1201.97	6767.16
1206.11	6767.11	1210.97	6767.11	1211.97	6767.12	1213.04	6767.09	1216.97	6767.15
1220.67	6767.02	1225.53	6767.03	1230.38	6767.4	1231.98	6767.68	1235.23	6768.11
1236.98	6768.38	1240.09	6769.16	1241.99	6769.84	1244.94	6770.4	1246.99	6770.7
1249.79	6771.48	1251.99	6772	1254.65	6772.59	1256.99	6772.9	1259.5	6773.41
1262	6773.69	1264.35	6773.81	1267	6773.91	1269.21	6774.01	1272	6774.17
1274.06	6774.34	1277	6774.46	1278.91	6774.43	1282	6774.35	1283.77	6774.36
1287.01	6774.41	1288.62	6774.46	1292.01	6774.53	1293.47	6774.55	1297.01	6774.62
1298.33	6774.67	1302.01	6774.7	1303.18	6774.73	1307.02	6774.86	1308.03	6774.87
1312.02	6774.94	1312.89	6774.95	1317.02	6774.96	1322.02	6775.1	1327.03	6775.08
1332.3	6775.09	1337.15	6775.13	1342.03	6775.19	1346.86	6775.32	1347.04	6775.33
1351.71	6775.37	1356.56	6775.37	1357.04	6775.36	1358.83	6775.37		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	796.77	.04	861.81	.06

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	796.77	861.81		223	223	223		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	711.73	6767.1	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 1001

INPUT

Description:

Station	Elevation	Data	num=	498					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6769.59	1.11	6769.57	3.22	6769.56	4.22	6769.5	5.47	6769.44
7.54	6769.4	9.83	6769.34	12.71	6769.22	13.23	6769.19	13.75	6769.19
16.23	6769.15	18.55	6769.09	20.23	6769.02	20.49	6769	22.23	6768.93
23.4	6768.87	25.34	6768.79	25.87	6768.77	26.31	6768.76	28.23	6768.68
29.26	6768.62	33.24	6768.28	34.06	6767.96	36.5	6767.17	37.47	6766.85
38.24	6766.6	38.9	6766.43	40.64	6766.05	41.24	6765.91	43.24	6765.47
45.24	6764.91	45.81	6764.76	47.25	6764.35	47.63	6764.27	48.25	6764.09
49.94	6764.14	53.25	6764.22	53.44	6764.26	54.08	6764.28	54.25	6764.31
56.35	6764.44	58.28	6764.57	60.22	6764.81	63.13	6765.18	63.25	6765.18
67.01	6764.67	67.52	6764.63	67.98	6764.54	68.26	6764.53	73.26	6764.11
74.26	6764.08	76.7	6763.98	77.67	6763.95	79.26	6763.95	79.6	6763.96
82.51	6763.97	83.27	6763.99	86.39	6763.86	87.17	6763.82	88.32	6763.83
89.24	6763.78	91.23	6763.82	93.17	6763.85	98.55	6763.85	101.27	6763.93
101.65	6763.93	103.28	6763.97	103.72	6764	105.77	6764.09	106.82	6764.15
110.28	6764.37	111.58	6764.44	111.99	6764.49	113.52	6764.61	116.28	6764.9
118.2	6765.03	120.85	6765.2	124.18	6765.4	125.29	6765.48	128.29	6765.67
133.87	6765.67	135.78	6765.65	140.65	6765.57	141.62	6765.59	143.3	6765.64
144.05	6765.64	145.5	6765.66	148.19	6765.58	149.22	6765.57	152.32	6765.57
153.36	6765.56	155.43	6765.51	158.3	6765.42	159.56	6765.41	160.6	6765.39
161.31	6765.39	163.31	6765.36	164.31	6765.37	166.82	6765.37	167.31	6765.38
169.31	6765.38	169.9	6765.36	170.94	6765.35	173.31	6765.3	174.57	6765.3
178.44	6765.38	179.21	6765.39	181.28	6765.45	183.35	6765.48	184.26	6765.52
188.52	6765.52	189.1	6765.54	191.04	6765.54	191.32	6765.55	193.69	6765.55
197.33	6765.48	199.33	6765.47	202.67	6765.43	203.64	6765.43	204.33	6765.45
208.17	6765.6	209.2	6765.61	211.39	6765.61	213.33	6765.62	215.41	6765.57
216.24	6765.54	217.48	6765.52	218.17	6765.49	220.11	6765.59	221.08	6765.63
222.34	6765.7	222.65	6765.69	223.02	6765.73	223.68	6765.72	225.75	6765.6
226.9	6765.52	228.34	6765.44	228.83	6765.43	231.74	6765.43	232.99	6765.41
235.62	6765.42	236.09	6765.43	237.55	6765.43	238.16	6765.45	241.26	6765.41
241.35	6765.4	243.37	6765.38	245.31	6765.33	245.4	6765.32	247.25	6765.28
248.5	6765.28	249.18	6765.31	250.57	6765.35	253.67	6765.47	254.71	6765.48
258.36	6765.55	259.88	6765.5	261.94	6765.42	262.75	6765.4	265.05	6765.3
266.63	6765.22	268.12	6765.26	268.15	6765.26	268.56	6765.25	269.18	6765.19
269.53	6765.18	270.22	6765.1	271.36	6765.12	273.37	6765.14	276.42	6764.13
278.49	6763.66	281.16	6763.32	283.37	6762.87	285.37	6762.7	285.73	6762.69
286.01	6762.64	288.37	6762.57	290.85	6762.61	290.9	6762.55	291.38	6762.55
293.38	6762.35	294	6762.33	295.04	6762.32	295.7	6762.3	298.14	6762.37
298.6	6762.37	302.4	6762.27	303.41	6762.25	304.68	6762.4	305.43	6762.5

305.56	6762.49	306.43	6762.62	307.33	6762.61	307.45	6762.63	311.49	6762.67
311.76	6762.71	312.31	6762.68	313.49	6762.84	314.41	6762.89	317.55	6763.47
317.62	6763.48	318.56	6763.65	320.54	6763.77	322.37	6763.83	323.61	6763.86
324.07	6763.91	324.14	6763.84	324.62	6763.9	326.42	6763.86	327.93	6763.84
328.66	6763.82	329.67	6763.91	333.71	6764.2	335.83	6764.19	338.76	6764.22
341.72	6764.5	342.73	6764.53	343.81	6764.58	345.83	6764.92	347.15	6765.16
347.6	6765.23	348.92	6765.48	349.95	6765.52	350.88	6765.57	352.9	6765.66
353.34	6765.65	353.48	6765.69	355.83	6765.66	356.5	6765.66	358.96	6765.61
359.36	6765.57	362.19	6765.25	363.08	6765.16	364.06	6765.16	365.02	6765.23
368.39	6765.38	369.06	6765.42	371.12	6765.17	373.69	6765.02	374.58	6764.95
375.12	6764.89	377	6764.72	379	6764.65	380.77	6764.67	382.18	6764.7
382.54	6764.68	382.88	6764.71	384.06	6764.68	386.97	6764.36	388.24	6764.21
388.74	6764.22	388.77	6764.15	389.25	6764.15	390.51	6764.19	392.3	6764.26
394.3	6764.4	394.65	6764.38	394.93	6764.44	395.31	6764.42	395.82	6764.46
399.35	6764.68	400.53	6764.74	401.12	6764.69	401.37	6764.71	402.88	6764.66
404.4	6764.62	405.55	6764.87	406.41	6765.07	407.43	6765.29	409.45	6765.56
412.29	6765.68	413.65	6765.77	417.53	6766.08	417.94	6766.07	418.17	6766.13
419.35	6766.13	423.25	6766.06	424.05	6766.04	424.13	6766.1	425.9	6766.04
428.55	6765.97	430.66	6765.94	432.09	6765.91	434.7	6765.87	435.82	6765.8
440.06	6765.71	441.7	6765.63	444.8	6765.43	445.81	6765.38	447.58	6765.31
448.76	6765.3	451.11	6765.31	451.56	6765.33	455.1	6765.22	456.5	6765.24
459.95	6765.27	462.18	6765.21	463.64	6765.16	464.83	6765.13	467.02	6765.12
468.75	6765.1	471.11	6765.11	475.1	6765.25	479.14	6765.29	480.15	6765.31
482.87	6765.27	485.07	6765.17	486.07	6765.15	488.75	6765.08	490.25	6765.03
494.03	6765.2	494.63	6765.22	495.8	6765.3	495.81	6765.28	496.69	6765.31
499.36	6765.35	504.39	6765.48	505.4	6765.49	506.5	6765.58	509.07	6765.77
510.45	6765.92	513.64	6766.07	515.27	6766.17	517.92	6766.26	519.33	6766.23
520.79	6766.21	522.35	6766.17	524.12	6766.06	525.6	6765.98	526.77	6765.85
527.57	6765.84	530.31	6765.78	531.09	6765.8	531.2	6765.78	533.85	6765.91
535.8	6765.99	536.98	6766.06	539.16	6766.21	540.75	6766.31	544.79	6766.08
545.8	6766.03	547.56	6766.11	548.74	6766.1	550.85	6766.1	552.87	6766.02
554.2	6765.98	555.8	6765.92	559.33	6765.88	561.28	6765.91	562.85	6765.95
563.64	6765.96	565.21	6766	566	6765.99	568.36	6765.89	571.01	6765.77
571.9	6765.79	572.26	6765.78	573.44	6765.8	576.32	6765.83	577.1	6765.87
577.93	6765.88	580.75	6765.95	582.15	6765.93	586.06	6765.82	588.71	6765.82
591.36	6765.77	593.13	6765.83	593.44	6765.85	596.29	6765.91	596.97	6765.94
600.49	6766.12	601.1	6766.13	603.75	6766.28	604.64	6766.32	606.38	6766.42
609.06	6766.51	609.95	6766.53	611.72	6766.59	612.26	6766.62	616.49	6766.69
619.52	6766.42	620.56	6766.34	621.67	6766.24	622.55	6766.19	624.02	6766.09
624.99	6766.05	626.59	6766	629.9	6766.17	630.3	6766.13	630.63	6766.15
631.64	6766.12	632.95	6766.11	633.84	6766.09	635.61	6766.07	636.69	6766.07
638.71	6766.21	639.15	6766.23	641.66	6766.4	642.21	6766.38	645.19	6766.18
645.34	6766.18	646.79	6766.08	647.11	6766.1	647.55	6766.06	649.35	6766.15
650.65	6766.2	651.84	6766.26	653.43	6766.31	656.96	6766.4	659.31	6766.51
659.5	6766.45	659.92	6766.48	661.94	6766.39	665.19	6766.66	665.69	6766.61
666.63	6766.73	667.11	6766.73	667.97	6766.85	669.15	6766.87	669.94	6766.86
670.39	6766.89	671.36	6766.88	671.97	6766.9	672.77	6766.9	673.3	6766.92
674.19	6766.91	674.63	6766.93	676.71	6766.83	677.3	6766.79	681.25	6766.59
682.63	6766.56	685.53	6766.56	687.97	6766.67	689.07	6766.69	690.63	6766.68
692.61	6766.71	694.63	6766.75	697.3	6766.63	697.88	6766.61	699.97	6766.46
701.11	6766.37	702.63	6766.27	703.24	6766.24	706.95	6766	707.97	6765.92
709.62	6765.92	711.48	6765.9	712.99	6765.9	714.51	6765.87	716.02	6765.81
717.53	6765.74	719.97	6765.64	721.3	6765.6	723.58	6765.61	725.09	6765.63
728.11	6765.65	735.67	6766.1	737.18	6766.09	740.21	6766.09	741.5	6766.08
742.91	6766.05	745.3	6765.98	747.76	6765.92	749.51	6765.8	751.42	6765.68
754.19	6765.52	754.65	6765.49	756.75	6765.54	759.91	6765.6	761.49	6765.31
763.45	6764.98	764.08	6764.82	765.55	6764.47	765.95	6764.43	767.01	6764.31
769.11	6764.09	775.17	6763.49	775.81	6763.49	777.6	6763.46	777.9	6763.32
778.31	6763.01	778.74	6763.03	779.01	6763	780.43	6763.32	781.14	6763.41
783.97	6764.12	784.89	6764.35	787.53	6765	788.85	6765.31	790.22	6765.84
790.95	6766.12	794.32	6767.4	794.58	6767.47	794.86	6767.6	795.69	6767.75
796.16	6767.69	799.6	6767.31	799.74	6767.31				

Manning's n Values		num= 7							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	25.87	.025	37.47	.06	268.12	.04	317.62	.06
759.91	.04	790.95	.06						

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
759.91	790.95	224.95	230.26	224.95		.1	.3
Ineffective Flow	num=	1					

Sta L	Sta R	Elev	Permanent
0	674.63	6767	F

LATERAL STRUCTURE

RIVER: Walton Creek
 REACH: lower-split RS: 1000.8

INPUT

Description:

Lateral structure position = Right overbank

Distance from Upstream XS =

Deck/Roadway Width = 5

Weir Coefficient = .1

Weir Flow Reference = Water Surface

Weir Embankment Coordinates num = 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6766.65	.35	6766.65	.69	6766.66	1.18	6766.66	1.99	6766.68
2.57	6766.68	3.15	6766.69	4.79	6766.69	5.35	6766.7	6.74	6766.7
7.58	6766.68	8.61	6766.66	8.9	6766.65	9.65	6766.64	9.72	6766.63
9.99	6766.63	10.92	6766.61	11.71	6766.61	12.18	6766.6	14	6766.6
14.64	6766.59	14.81	6766.6	15.1	6766.6	15.47	6766.61	15.84	6766.61
16.29	6766.62	16.49	6766.63	16.88	6766.63	17.11	6766.64	17.91	6766.64
17.93	6766.65	18.75	6766.65	18.94	6766.66	20.39	6766.66	20.66	6766.67
21.21	6766.67	22	6766.68	22.85	6766.67	23.45	6766.67	23.67	6766.68
24.11	6766.68	24.5	6766.69	25.14	6766.69	25.32	6766.7	26.23	6766.7
26.96	6766.69	27.2	6766.69	27.62	6766.67	27.78	6766.64	28.24	6766.63
28.6	6766.61	29.01	6766.58	29.27	6766.57	30	6766.52	30.24	6766.5
31.06	6766.45	31.8	6766.4	31.88	6766.4	32.37	6766.37	33.19	6766.42
33.4	6766.44	33.53	6766.44	34.35	6766.51	35.17	6766.54	35.97	6766.59
36.5	6766.61	36.81	6766.63	37.63	6766.66	38.01	6766.64	38.45	6766.63
39.6	6766.59	40.63	6766.55	40.91	6766.55	41.54	6766.52	42.01	6766.52
42.7	6766.51	43.38	6766.48	43.73	6766.47	44.33	6766.44	44.76	6766.43
46.01	6766.38	47.11	6766.33	47.48	6766.31	47.86	6766.3	50.01	6766.3
50.76	6766.29	51.59	6766.29	51.99	6766.28	55.09	6766.28	55.46	6766.29
55.69	6766.28	56.51	6766.3	57.15	6766.32	57.33	6766.33	58.02	6766.35
58.25	6766.36	58.97	6766.38	59.22	6766.38	59.64	6766.4	59.79	6766.4
61.44	6766.44	62.26	6766.47	62.42	6766.47	63.35	6766.5	63.81	6766.48
63.9	6766.52	64.38	6766.5	65.21	6766.45	65.54	6766.44	66.02	6766.41
66.6	6766.39	67.18	6766.38	68.52	6766.33	69.38	6766.36	69.65	6766.36
70.02	6766.37	70.77	6766.4	71.61	6766.42	72.65	6766.44	72.93	6766.45
73.56	6766.46	74.03	6766.45	74.57	6766.45	74.71	6766.44	74.95	6766.44
75.39	6766.43	75.74	6766.43	76.21	6766.42	76.34	6766.41	77.73	6766.37
78.68	6766.34	78.84	6766.33	79.13	6766.33	79.5	6766.32	79.88	6766.32
80.32	6766.31	80.52	6766.33	80.91	6766.33	81.91	6766.37	82.03	6766.37
82.97	6766.41	83.6	6766.43	84.01	6766.45	84.42	6766.44	84.69	6766.46
85.24	6766.46	86.03	6766.48	86.88	6766.49	87.48	6766.49	87.71	6766.5
88.87	6766.5	89.17	6766.51	90.26	6766.46	90.99	6766.42	92.27	6766.36
92.63	6766.35	93.3	6766.32	93.45	6766.32	94.27	6766.29	96.74	6766.29
97.22	6766.28	97.56	6766.28	98.04	6766.27	98.61	6766.27	99.2	6766.26
100.84	6766.26	101.56	6766.25	101.66	6766.24	102.04	6766.24	102.79	6766.22
103.3	6766.22	103.63	6766.21	104.66	6766.19	105.57	6766.16	105.77	6766.16
106.59	6766.13	106.97	6766.11	107.41	6766.1	107.76	6766.08	108.23	6766.07
108.36	6766.06	108.79	6766.05	109.75	6766.01	110.04	6766.01	110.69	6766
111.14	6766	111.51	6765.99	112.53	6765.99	112.66	6765.98	113.09	6765.98
113.13	6765.97	114.52	6765.97	115.21	6765.96	116	6765.96	116.62	6765.93
117.2	6765.96	117.48	6765.97	118.96	6765.97	119.46	6765.98	120.44	6765.98
120.87	6765.99	121.27	6765.99	121.58	6766	122.29	6766	122.62	6766.01
122.99	6766.01	123.4	6766.02	123.7	6766.01	123.98	6766.01	124.88	6765.99
125.12	6765.98	125.34	6765.98	125.83	6765.96	126.69	6765.94	127.24	6765.93
127.84	6765.95	128.05	6765.95	128.66	6765.97	129.41	6765.98	130.8	6766.02
131.49	6765.98	132.12	6765.96	132.9	6765.92	133.48	6765.9	133.76	6765.88
134.32	6765.86	134.83	6765.87	135.24	6765.87	136.19	6765.89	136.44	6765.89
136.72	6765.9	137.15	6765.9	137.55	6765.91	138.2	6765.91	139.68	6765.95
139.98	6765.95	140.26	6765.96	141.16	6765.98	141.62	6765.99	142.64	6766.01
142.97	6766.01	144.12	6766.03	144.94	6766.04	145.6	6766.08	146.35	6766.07
146.68	6766.07	147.07	6766.06	147.28	6766.07	148.16	6766.07	148.86	6766.08
149.31	6766.08	149.75	6766.07	150.06	6766.07	151.07	6766.02	151.54	6765.99
151.62	6765.99	152.08	6765.96	152.78	6765.92	153.09	6765.91	153.33	6765.89
154.22	6765.86	155.09	6765.82	155.22	6765.81	156.24	6765.77	156.91	6765.75

157.12	6765.74	157.4	6765.74	157.8	6765.71	158.13	6765.72	159.71	6765.72
160.14	6765.73	160.48	6765.72	160.86	6765.72	161.15	6765.71	161.38	6765.71
162.16	6765.7	162.27	6765.69	164.06	6765.67	164.32	6765.67	164.96	6765.66
165.48	6765.66	166.19	6765.64	166.63	6765.64	166.74	6765.63	171.25	6765.63
172.11	6765.62	172.24	6765.61	173.01	6765.6	173.25	6765.6	173.56	6765.59
173.9	6765.59	174.26	6765.58	174.79	6765.58	175.26	6765.57	175.69	6765.57
175.87	6765.55	176.27	6765.55	177.03	6765.52	177.28	6765.52	177.48	6765.51
178.18	6765.49	178.37	6765.48	179.33	6765.45	180.16	6765.43	180.49	6765.43
181.06	6765.44	181.64	6765.46	181.95	6765.46	182.32	6765.47	183.74	6765.5
184.34	6765.51	184.63	6765.51	185.11	6765.52	185.34	6765.53	187.42	6765.53
188.21	6765.54	189.1	6765.54	189.38	6765.55	190.38	6765.55	190.88	6765.56
191.79	6765.56	192.04	6765.57	193.58	6765.57	194.35	6765.58	195.5	6765.58
196.26	6765.6	196.66	6765.6	197.44	6765.62	197.81	6765.62	198.05	6765.65
198.45	6765.66	198.96	6765.68	199.84	6765.73	200.12	6765.74	200.46	6765.76
201.27	6765.73	201.63	6765.72	202.43	6765.69	202.52	6765.69	203.42	6765.66
203.58	6765.66	204.31	6765.62	204.5	6765.62	205.2	6765.59	205.89	6765.57
206.51	6765.57	206.99	6765.56	207.52	6765.56	207.89	6765.55	208.53	6765.55
208.78	6765.54	209.68	6765.54	210.51	6765.53	210.78	6765.53	211.47	6765.54
211.55	6765.55	212.36	6765.56	212.82	6765.57	213.25	6765.57	213.57	6765.58
213.98	6765.58	214.15	6765.59	214.58	6765.59	215.59	6765.61	216.29	6765.63
217.44	6765.67	217.73	6765.67	218.59	6765.7	218.71	6765.7	219.52	6765.72
220.41	6765.75	220.63	6765.76	220.9	6765.76	221.3	6765.77	222.06	6765.77
222.2	6765.78	222.64	6765.78	223.09	6765.79	223.99	6765.79	224.37	6765.8
224.88	6765.8	225.52	6765.76	225.78	6765.76	226.65	6765.68	227.57	6765.61
227.83	6765.58	228.69	6765.51	228.99	6765.5	229.35	6765.46	229.7	6765.44
230.25	6765.43	230.71	6765.41	231.14	6765.42	232.04	6765.42	232.45	6765.43
232.93	6765.43	233.61	6765.44	235.91	6765.44	236.75	6765.41	237.76	6765.38
238.3	6765.37	239.19	6765.33	239.38	6765.33	240.79	6765.27	240.98	6765.28
241.88	6765.29	242.52	6765.31	244.56	6765.31	244.82	6765.3	245.83	6765.3
246.31	6765.26	246.35	6765.25	246.83	6765.21	247.24	6765.17	247.46	6765.13
247.84	6765.1	248.14	6765.06	248.62	6765.01	249.93	6764.85	250.46	6764.79
250.82	6764.74	251.72	6764.73	252.88	6764.73	253.24	6764.72	254.39	6764.72
255.29	6764.7	255.54	6764.71	255.91	6764.7	256.19	6764.66	256.7	6764.64
256.91	6764.61	257.85	6764.55	258.39	6764.52	258.87	6764.48	259.94	6764.41
260.66	6764.35	260.95	6764.33	261.32	6764.34	261.55	6764.34	261.95	6764.35
262.45	6764.37	262.96	6764.38	263.97	6764.41	264.24	6764.41	264.78	6764.43
265.94	6764.46	266.33	6764.48	266.92	6764.53	267.09	6764.54	267.81	6764.6
268.71	6764.66	269.01	6764.69	269.4	6764.74	269.6	6764.73	270.5	6764.86
271.03	6764.94	272.04	6764.97	272.29	6764.97	273.18	6765	274.02	6765.02
274.27	6765.03	275.86	6765.05	276.07	6765.05	276.33	6765.03	276.76	6764.98
277.48	6764.91	277.65	6764.9	278.08	6764.86	278.55	6764.81	278.64	6764.77
279.09	6764.72	279.79	6764.6	280.34	6764.51	280.95	6764.4	281.11	6764.38
282.1	6764.3	283.02	6764.22	283.12	6764.22	283.91	6764.16	284.13	6764.14
284.81	6764.09	285.14	6764.06	286.15	6763.99	286.6	6763.9	286.72	6763.87
287.16	6763.79	287.49	6763.72	287.88	6763.66	288.16	6763.6	288.94	6763.46

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6766.87	Weir Sta US (ft)	155.85
W.S. US. (ft)	6766.33	Weir Sta DS (ft)	288.94
E.G. DS (ft)	6765.31	Min El Weir Flow (ft)	6763.46
W.S. DS (ft)	6765.28	Wr Top Wdth (ft)	130.85
Q US (cfs)	497.22	Weir Max Depth (ft)	2.33
Q Leaving Total (cfs)	-6.79	Weir Avg Depth (ft)	0.54
Q DS (cfs)	504.01	Weir Flow Area (sq ft)	70.41
Perc Q Leaving	-1.37	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	-6.79	Weir Submerg	0.60
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			

Breach SSR (ft)

Warning: The energy equation could not be balanced within the specified number of iterations.
The program used critical

depth for the water surface and continued on with the calculations.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate

the need for additional cross sections.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated

water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The

program defaulted to critical depth.

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 1000

INPUT

Description:

Station Elevation Data		num=		492							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6768.71	1.36	6768.69	2.63	6768.66	4.65	6768.63	5.66	6768.6		
7.31	6768.54	9.29	6768.45	10.29	6768.42	13.26	6768.35	13.73	6768.33		
14.74	6768.31	16.49	6768.25	19.78	6768.18	20.73	6768.15	21.49	6768.14		
22.49	6768.06	24.17	6767.94	25.16	6767.86	26.49	6767.77	27.49	6767.64		
29.13	6767.45	30.62	6767.26	31.49	6767.15	33.49	6766.18	34.91	6765.5		
35.08	6765.49	35.49	6765.29	36.49	6764.92	37.49	6764.5	37.93	6764.36		
38.05	6764.26	39.95	6763.66	41.49	6763.16	44	6763.56	46.49	6763.94		
46.98	6763.96	48.49	6764.05	49.03	6764.07	50.04	6764.13	55.08	6764.48		
56.49	6764.55	59.11	6764.47	59.49	6764.45	59.87	6764.46	60.12	6764.43		
61.49	6764.47	64.16	6764.39	64.49	6764.39	64.83	6764.35	65.16	6764.37		
66.49	6764.23	67.49	6764.18	69.49	6764.1	70.21	6764.06	71.77	6763.95		
73.23	6763.79	73.49	6763.77	74.74	6763.63	75.73	6763.53	76.49	6763.44		
78.28	6762.71	79.49	6762.2	80.69	6761.71	81.49	6761.37	82.68	6761.32		
83.32	6761.25	83.67	6761.23	86.34	6760.98	86.64	6760.97	89.37	6761		
91.6	6761	94.41	6760.94	95.57	6760.92	97.55	6760.96	98.54	6760.99		
100.46	6761.03	101.47	6761.04	103.5	6761.02	105.48	6760.99	106.5	6760.99		
110.5	6761.58	111.43	6761.77	114.41	6762.31	115.4	6762.5	116.5	6762.66		
120.64	6762.37	121.5	6762.32	122.65	6762.38	125.68	6762.51	126.31	6762.49		
126.69	6762.5	127.3	6762.56	128.7	6762.6	130.27	6762.66	131.5	6762.7		
135.5	6763.18	135.76	6763.22	136.22	6763.21	136.5	6763.24	137.22	6763.23		
139.2	6763.17	139.5	6763.17	140.81	6763.13	141.18	6763.17	146.5	6763.01		
148.12	6762.5	149.12	6762.2	151.5	6761.46	152.09	6761.46	154.5	6761.49		
155.94	6761.5	156.5	6761.49	158.04	6761.43	158.5	6761.42	159.97	6761.36		
160.98	6761.33	161.02	6761.35	161.5	6761.33	162.5	6761.32	164	6761.32		
166.02	6761.3	166.5	6761.31	171.06	6761.31	172.91	6761.29	186.8	6761.29		
187.2	6761.28	191.76	6761.28	193.25	6761.29	197.29	6761.33	198.7	6761.34		
199.69	6761.36	200.31	6761.36	201.32	6761.38	202.33	6761.37	203.66	6761.37		
204.35	6761.36	211.59	6761.36	212.42	6761.37	217.54	6761.37	218.47	6761.38		
221.5	6761.38	223.51	6761.43	224.48	6761.46	225.53	6761.48	226.46	6761.51		
231.42	6761.46	233.6	6761.46	234.4	6761.45	235.61	6761.45	237.5	6761.43		
238.5	6761.43	240.66	6761.4	242.67	6761.4	243.32	6761.41	244.5	6761.41		
244.69	6761.42	246.5	6761.43	249.27	6761.57	249.5	6761.59	251.75	6761.7		
252.25	6761.71	254.5	6761.78	255.22	6761.79	256.5	6761.83	256.79	6761.88		
257.2	6761.87	257.5	6761.92	258.5	6761.97	261.5	6762.15	263.5	6762.6		
263.85	6762.67	265.5	6763.04	265.77	6763.13	265.87	6763.17	266.13	6763.18		
266.5	6763.31	266.88	6763.35	267.12	6763.45	267.5	6763.49	269.5	6763.95		
271.5	6764.4	272.08	6764.46	272.5	6764.48	274.06	6764.63	274.5	6764.68		
276.5	6764.87	277.04	6764.9	278.5	6764.95	280.5	6765.05	282	6765.1		
282.01	6765.05	283.02	6765.06	284.5	6765.08	286.5	6765.11	286.95	6765.09		
287.05	6765.11	287.95	6765.07	290.08	6765	291.09	6764.96	291.91	6764.94		
292.09	6764.91	292.5	6764.91	293.9	6764.88	294.89	6764.87	295.5	6764.85		
296.5	6764.84	296.87	6764.81	297.14	6764.76	300.84	6764.46	301.83	6764.37		
302.18	6764.47	304.5	6764.09	306.5	6763.86	310.75	6764.33	311.5	6764.43		
312.27	6764.39	313.5	6764.55	313.73	6764.55	316.5	6764.68	317.31	6764.68		
318.69	6764.72	319.33	6764.73	320.67	6764.77	322.35	6764.81	324.37	6764.82		
324.5	6764.83	325.63	6764.83	326.62	6764.84	327.39	6764.87	329.59	6764.87		

330.42	6764.88	331.58	6764.88	332.44	6764.9	336.47	6765.19	337.48	6765.21
341.51	6765.21	342.52	6765.22	344.54	6765.3	346.45	6765.36	347.44	6765.41
348.44	6765.44	350.42	6765.52	351.6	6765.56	356.37	6765.66	358.35	6765.66
358.5	6765.67	366.73	6765.67	370.51	6765.76	371.51	6765.79	373.51	6765.79
375.51	6765.76	378.83	6765.76	379.18	6765.77	381.86	6765.77	382.51	6765.76
384.51	6765.7	386.51	6765.62	387.91	6765.7	388.1	6765.68	388.92	6765.71
389.51	6765.71	391.51	6765.74	392.95	6765.3	393.06	6765.36	393.51	6765.23
396.51	6764.84	397.99	6764.69	399	6764.6	400	6764.5	400.01	6764.52
400.51	6764.47	401.51	6764.43	402.51	6764.3	402.98	6764.2	403.04	6764.23
404.05	6764.02	406.06	6763.58	406.51	6763.49	407.51	6763.46	407.93	6763.51
408.08	6763.44	410.1	6763.71	411.51	6763.89	412.11	6764.06	414.13	6764.58
416.51	6765.17	418.51	6765.45	419.83	6765.61	421.51	6765.83	422.51	6765.87
422.81	6765.84	423.21	6765.9	423.8	6765.84	426.51	6765.54	428.25	6765.42
429.51	6765.37	429.75	6765.35	433.29	6765.21	433.51	6765.22	435.7	6765.22
436.32	6765.23	438.68	6765.23	439.35	6765.22	440.51	6765.22	441.51	6765.21
443.38	6765.14	444.63	6765.1	446.51	6765.09	447.6	6765.06	448.42	6765.02
449.58	6765.06	450.57	6765.08	451.45	6765.11	452.56	6765.09	454.81	6765.01
455.49	6764.97	455.96	6764.96	457.12	6764.91	459.15	6765.01	460.68	6765.11
462.08	6765.19	462.81	6765.24	465.19	6765.24	465.74	6765.25	468.71	6765.25
470.72	6765.16	472.33	6765.1	474.53	6765.29	476	6765.46	476.74	6765.48
478.74	6765.51	480.18	6765.51	481.85	6765.59	482.49	6765.61	484.05	6765.69
484.84	6765.72	485.95	6765.78	487.1	6765.89	487.71	6765.96	488.78	6766.06
491.72	6766.25	492.79	6766.37	494.31	6766.53	497.48	6766.53	498.81	6766.16
499.43	6766.05	500.94	6765.8	501.11	6765.78	503.25	6765.42	504.83	6765.05
505.56	6764.89	507.86	6764.35	507.98	6765.61	509.19	6765.59	513.22	6764.37
513.69	6763.55	513.96	6763.04	514	6763.12	514.47	6763.29	515.6	6764.44
517.06	6765.3	517.67	6764.95	520.47	6764.15	526.26	6763.31	532.96	6763.23
535.02	6763.45	541.85	6764.17	545.43	6764.85	557.42	6765.4	557.92	6765.39
559.95	6765.42	570.42	6765.6	573.01	6765.62	573.35	6765.68	576.99	6765.68
578	6765.66	580.88	6765.72	581.87	6765.75	586.82	6765.8	591.13	6765.8
591.77	6765.79	592.95	6765.79	593.15	6765.78	596.72	6765.82	598.7	6765.86
601.95	6765.96	603.25	6765.93	603.65	6765.96	603.95	6765.95	604.95	6765.97
606.95	6766.03	608.3	6766.01	608.61	6765.98	609.6	6765.94	611.33	6765.85
611.96	6765.81	612.96	6765.84	613.96	6765.84	616.53	6765.79	618.4	6765.78
619.5	6765.75	621.96	6765.7	623.96	6765.61	626.96	6765.52	627.96	6765.53
628.41	6765.57	628.5	6765.53	631.39	6765.79	631.96	6765.85	632.96	6765.87
633.38	6765.85	633.53	6765.89	634.54	6765.83	635.37	6765.77	636.96	6765.68
637.96	6765.68	639.35	6765.7	641.34	6765.75	642.33	6765.76	643.96	6765.73
644.32	6765.73	645.6	6765.69	645.96	6765.69	647.31	6765.65	648.3	6765.64
648.96	6765.62	649.62	6765.62	651.29	6765.59	651.96	6765.59	652.63	6765.55
653.28	6765.53	653.96	6765.49	655.65	6765.42	657.66	6765.31	659.24	6765.24
661.68	6765.17	662.96	6765.18	663.96	6765.21	664.7	6765.22	665.96	6765.26
666.96	6765.28	668.72	6765.23	671.74	6765.17	673.17	6765.02	675.96	6764.69
676.96	6764.59	678.14	6764.55	678.77	6764.54	681.96	6764.3	682.79	6764.29
683.12	6764.3	683.8	6764.27	686.96	6764.54	687.96	6764.68	688.09	6764.68
688.83	6764.8	689.83	6764.85	690.84	6764.89	691.07	6764.91	692.07	6764.95
693.85	6765.04	696.87	6765.25	697.04	6765.25	698.04	6765.09	698.88	6764.97
700.89	6764.59	701.9	6764.39	704.01	6764.18	705.99	6763.93	706.92	6763.82
707.98	6763.6	708.94	6763.42	708.98	6763.4	710.95	6762.81	711.96	6762.5
712.96	6761.74	713.95	6762.31	714.95	6762.62	715.94	6762.72	716.98	6762.75
718.99	6763.16	719.92	6763.52	720.92	6763.89	722.01	6764.31	724.02	6765.03
724.89	6765.23	726.03	6765.52	726.6	6765.65	727.46	6765.76	730.05	6765.86
732.46	6765.89	734.45	6765.85						

Manning's n Values		num= 6							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	20.73	.025	30.62	.04	265.77	.05	507.98	.04
573.01	.05								

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	507.98	573.01		573.3 630.03	573.3		.1	.3

LATERAL STRUCTURE

RIVER: Walton Creek

REACH: lower-split

RS: 999.7

INPUT

Description:

Lateral structure position = Right overbank

Distance from Upstream XS =
 Deck/Roadway Width = 5
 Weir Coefficient = .1
 Weir Flow Reference = Water Surface

Weir Embankment Coordinates num = 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.54	2.32	6765.42	6.08	6765.42	6.56	6765.43	9.88	6765.43
11.3	6765.46	12.72	6765.45	16.46	6765.34	18.4	6765.36	20.17	6765.36
21.24	6765.38	23.53	6765.38	25.81	6765.42	28.34	6765.4	32.85	6765.31
34.14	6765.16	35.43	6765.26	37.67	6765.18	39.79	6765.17	41.3	6765.09
42.62	6765.12	45.02	6765.03	47.78	6765.1	49.03	6765.09	53.11	6765.02
59.44	6764.88	63.39	6764.8	64.51	6764.79	66.82	6764.74	69.52	6764.7
72.53	6764.7	76.27	6764.67	79.15	6764.67	81.56	6764.64	85.42	6764.68
87.58	6764.68	89.08	6764.66	92.09	6764.55	94.69	6764.49	97.09	6764.38
101.12	6764.35	105.1	6764.28	106.33	6764.29	111.56	6764.29	113.11	6764.28
115.52	6764.19	117.12	6764.11	121.12	6764.12	121.62	6764.1	125.05	6764.03
126.2	6764.02	129.13	6763.92	131.22	6763.88	133.52	6763.9	137.15	6763.98
137.7	6763.97	141.15	6763.97	142.18	6763.96	145.02	6763.99	147.56	6764.09
152.29	6764.31	153.79	6764.34	155.88	6764.44	158.77	6764.47	162.73	6764.38
165.83	6764.33	168.39	6764.27	173.01	6764.24	175.34	6763.99	177.2	6763.77
181.2	6763.6	183.7	6763.63	185.21	6763.69	188.93	6763.62	189.21	6763.6
190.82	6763.61	193.22	6763.58	194.42	6763.6	197.43	6763.45	201.22	6763.36
205.67	6763.37	208.39	6763.42	211.13	6763.2	211.83	6763.12	215.37	6763.17
218.91	6763.36	219.28	6763.33	222.45	6763.24	226.69	6763.26	229.52	6763.22
232.9	6762.88	233.24	6762.86	236.6	6763.04	239.71	6762.95	240.61	6762.96
243.68	6763.1	246.5	6762.92	251.96	6762.92	253.32	6762.91	255.71	6762.83
257.83	6762.83	261.24	6762.94	264.91	6762.93	266.94	6762.81	268.44	6762.81
270.57	6762.93	271.98	6763.03	273.74	6762.84	275.52	6762.69	278.92	6763.15
279.19	6763.16	284.81	6762.74	289.67	6762.82	292.18	6763.17	293.66	6763.23
294.63	6763.23	296.75	6763.15	299.55	6763.45	300.44	6763.49	300.89	6763.43
304.69	6762.82	305.71	6762.8	309.03	6762.41	310.85	6762.09	313.32	6761.63
313.34	6761.71	313.84	6761.63	315.87	6761.63	317.62	6761.49	321.06	6761.97
321.91	6762.22	326.04	6762.68	328.07	6762.68	331.12	6762.65	334.8	6762.53
339.49	6762.55	341.67	6762.59	343.39	6762.59	346.37	6762.5	347.69	6762.5
351.46	6762.55	351.98	6762.53	354.83	6762.35	356.54	6762.26	361.62	6762.25
363.66	6762.19	365.73	6762.1	366.58	6761.95	367.44	6761.64	367.73	6761.48
368.74	6761.52	369.76	6761.84	370.62	6761.81	371.87	6761.85	375.6	6762.14
376.85	6762.18	381.83	6761.84	386.34	6762.05	386.81	6762.02	390.64	6762.08
392.13	6762.03	394.93	6762.3	397.21	6762.17	399.26	6762.09	402.29	6762.36
403.52	6762.35	407.38	6762.44	410.23	6762.36	412.11	6762.27	417.54	6762.25
420.71	6762.27	422.63	6762.31	425	6762.3	427.58	6762.33	430.15	6762.29
432.88	6762.29	433.59	6762.33	437.93	6762.28	443.04	6762.12	445.62	6762.07
448.19	6762	451.09	6761.89	452.11	6761.83	459.36	6761.49	463.29	6761.5
463.66	6761.48	468.38	6761.49	472.25	6761.67	473.11	6761.66	476.47	6761.55
478.55	6761.56	480.84	6761.43	483.94	6761.43	485.13	6761.46	488.71	6761.24
493.72	6761.31	498.02	6761.3	498.87	6761.35	502.31	6761.3	504.03	6761.29
506.35	6761.33	509.05	6761.4	510.91	6761.55	514.13	6761.73	518.64	6761.81
519.5	6761.8	521.29	6761.84	524.3	6761.85	528.09	6761.65	529.38	6761.61
532.38	6761.45	534.46	6761.4	535.48	6761.41	539.55	6761.41	540.97	6761.49
544.63	6761.6	546.13	6761.56	549.93	6761.5	553.86	6761.37	554.72	6761.36
558.15	6761.17	559.9	6761.18	561.91	6761.13	563.95	6761.05	566.74	6760.91
569.86	6760.86	571.1	6760.94	575.13	6760.71	576.43	6760.71	579.63	6760.76
580.22	6760.74	583.56	6760.83	584.78	6760.84	588.22	6760.83	590.8	6760.86
595.47	6760.78	599.74	6760.88	600.25	6760.86	601.96	6760.89	604.72	6760.91
608.84	6761.01	609.67	6761.04	613.99	6761.02	614.85	6760.99	618.29	6760.91
620.75	6760.81	622.58	6760.83	625.89	6760.67	626.88	6760.69	631.05	6760.93
636.08	6761.36	642.44	6761.49	646.2	6761.6	649.03	6761.74	650.45	6761.78
653.28	6761.81	656.11	6761.96	657.45	6761.94	660.45	6761.66	662.96	6761.7
663.9	6761.67	664.96	6761.69	667.96	6761.65	669.67	6761.65	670.99	6761.49
672.46	6761.49	674.53	6761.35	676.37	6761.37	678.07	6761.13	679.97	6761.07
681.73	6760.9	683.08	6760.98	685.15	6760.59	687.48	6760.23	688.69	6759.95
689.78	6760.11	692.23	6760.18	694.98	6759.91	696.48	6759.88	701.85	6759.49
702.15	6759.51	702.86	6759.32	703.19	6759.37	706.4	6759.73	710	6759.63
713.48	6759.79	716.59	6760.7	717.02	6760.85	717.5	6760.91	720.62	6760.91
723.3	6760.96	724.1	6760.99	725.01	6761.28	727.65	6761.49	730	6762.25
731.19	6762.38	732.52	6762.4	734.73	6761.88	736.7	6761.77	738.27	6761.34
740.02	6761.4	741.81	6761.31	743.41	6761.3	745.35	6761.15	747.53	6761.17
748.77	6761.12	750.11	6761.11	752.43	6760.95	755.03	6760.92	755.98	6760.86
756.82	6760.85	759.5	6760.68	763.52	6760.59	769.43	6760.37	770.05	6760.34
773.68	6760.35	776.93	6760.39	777.55	6760.38	780.76	6760.24	783.63	6760.43
785.72	6760.15	790.33	6759.5	791.39	6759.53	792.8	6759.41	794.93	6759.28

797.07	6759.09	798.38	6759.04	800.07	6758.93	801.57	6758.87	803.74	6758.81
806.97	6758.51	807.76	6758.42	809.29	6758.34	809.8	6758.47	810.51	6758.34
811.22	6758.6	811.78	6758.63	812.63	6758.53	812.7	6758.43	813.56	6758.48
813.86	6758.3	814.43	6758.28	815.09	6758.43	816.16	6758.29	817.24	6758.42
818.75	6758.46	819.27	6758.44	820.29	6758.62	821.25	6758.52	822.2	6758.8
822.48	6758.82	823.07	6758.68	831.45	6759.5	832.47	6759.59	841.6	6760.49
845.67	6760.88	859.38	6762.22	860.23	6762.29	862.21	6762.52	864.55	6762.66
866.27	6762.72	868	6762.74	873.19	6762.74	873.82	6762.73	878.37	6762.73
879.63	6762.71	896.42	6761.55	898.25	6761.43	907.59	6760.78	908.59	6760.72
912.67	6760.44	914.64	6760.28	915.46	6760.07	916.51	6760.27	917.01	6760.28
917.1	6760.41	917.57	6760.46	918.62	6760.37	920.17	6760	920.26	6760.04
920.96	6759.95	921.78	6759.74	924.92	6759.62	925.97	6760.01	927.17	6759.66
928.17	6759.55	929.97	6759.62	930.15	6759.76	930.8	6760.06	930.97	6760.2
933.82	6760.13	936.11	6760.15	941.07	6760.08	943.9	6760.17	945.91	6760.04
948.94	6759.97	952.98	6759.98	955.99	6760.01	958.94	6760.08	960.98	6760.06
964.05	6760.05	965.89	6760.07	969.08	6760.03	971.85	6760.07	974.12	6760.07
975.13	6760.09	978.79	6760.13	981.98	6760.1	985.98	6760.03	989.23	6759.9
990.98	6759.81	993.98	6759.8	995.98	6759.82	999.31	6759.69	1000.98	6759.74
1004.35	6759.93	1005.98	6759.93	1009.38	6759.74	1010.98	6759.71	1014.42	6760.1
1015.98	6760.19	1019.46	6759.94	1020.98	6759.89	1023.47	6759.96	1025.98	6760.05
1028.98	6759.92	1030.98	6759.78	1035.58	6759.75	1039.61	6759.66	1040.98	6759.75
1044.64	6759.8	1045.98	6759.68	1049.68	6759.54	1050.98	6759.56	1055.23	6759.49
1057.22	6759.41	1059.76	6759.29	1061.19	6759.28	1064.79	6759.2	1065.98	6759.21
1069.83	6759.68	1070.98	6759.74	1074.98	6759.41	1077.89	6759.29	1080.05	6759.22
1080.91	6759.26	1085.01	6759.31	1085.95	6759.3	1086.96	6759.53	1089.98	6760.26
1090.99	6760.32	1094.94	6760.19	1095.93	6760.12	1098.04	6759.86	1100.26	6759.83
1101.71	6759.72	1102.46	6759.73	1103.19	6759.69	1104.79	6759.66	1106.8	6759.6
1107.64	6759.6	1112.1	6759.67	1112.58	6759.64	1115.51	6759.83	1115.96	6759.84
1118.21	6759.8	1119.34	6759.76	1122.04	6759.72	1124.96	6759.86	1125.45	6759.93
1125.76	6759.9	1126.94	6760.04	1127.21	6760.04	1129.47	6760.26	1135.07	6760.17
1138.81	6760.14	1140.72	6760.11	1143.83	6760.14	1147.48	6760.14	1151.98	6760.09
1154.72	6760.08	1158.37	6760.13	1160.7	6760.18	1165.36	6760.24	1166.27	6760.24
1168.86	6760.2	1176.5	6760.2	1180.37	6760.15	1185.21	6760.05	1187.36	6760.02

Weir crest shape

= Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6765.21	Weir Sta US (ft)	33.92
W.S. US. (ft)	6765.20	Weir Sta DS (ft)	1187.36
E.G. DS (ft)	6762.22	Min El Weir Flow (ft)	6758.28
W.S. DS (ft)	6762.20	Wr Top Wdth (ft)	1150.33
Q US (cfs)	504.01	Weir Max Depth (ft)	6.79
Q Leaving Total (cfs)	319.64	Weir Avg Depth (ft)	3.38
Q DS (cfs)	358.53	Weir Flow Area (sq ft)	3887.12
Perc Q Leaving	28.86	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	319.64	Weir Submerg	0.72
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			
Breach SSR (ft)			

Warning: The energy equation could not be balanced within the specified number of iterations.
The program used critical

depth for the water surface and continued on with the calculations.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated

program defaulted to critical depth.

CROSS SECTION

REACH: lower-split

RS: 999.6

Description:

Station	Elevation	Data	num=	487					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6768.11	.93	6768.11	1.08	6768.1	1.93	6768.1	2.78	6768.09
3.93	6768.06	7.77	6767.79	8.93	6767.73	9.76	6767.73	10.76	6767.71
12.1	6767.7	13.75	6767.67	13.93	6767.66	15.93	6767.64	16.11	6767.63
18.93	6767.6	19.74	6767.57	20.74	6767.52	21.73	6767.48	21.93	6767.48
22.93	6767.43	23.13	6767.43	24.27	6767.37	27.72	6767.24	28.93	6767.18
31.15	6766.85	32.15	6766.69	32.93	6766.58	33.93	6766.41	35.16	6765.81
36.7	6765.04	37.08	6764.87	37.7	6764.55	38.93	6764.03	40.17	6763.6
40.69	6763.51	40.93	6763.42	42.68	6763.03	44.18	6762.68	45.93	6762.2
46.93	6762.07	47.19	6762.04	47.67	6761.91	48.93	6761.76	49.93	6761.93
50.2	6762.01	52.2	6762.39	52.66	6762.49	53.66	6762.65	54.93	6762.83
55.21	6762.86	57.65	6763.2	58.22	6763.25	58.93	6763.33	62.93	6763.33
64.23	6763.35	65.63	6763.39	65.93	6763.39	66.93	6763.42	68.24	6763.44
68.93	6763.46	71.25	6763.43	72.25	6763.43	72.93	6763.42	73.25	6763.43
75.93	6763.43	76.26	6763.42	77.93	6763.42	80.27	6763.39	82.59	6763.35
83.93	6763.34	84.93	6763.39	85.58	6763.4	85.93	6763.42	86.93	6763.43
87.58	6763.45	88.57	6763.46	89.29	6763.48	90.93	6763.49	91.29	6763.5
92.3	6763.5	92.56	6763.51	93.93	6763.51	95.3	6763.55	95.93	6763.56
97.55	6763.61	98.31	6763.62	102.54	6763.62	102.93	6763.63	103.93	6763.63
105.33	6763.68	105.93	6763.71	107.53	6763.76	107.93	6763.79	108.93	6763.84
110.52	6763.87	113.35	6763.93	113.93	6763.95	114.93	6763.96	115.93	6763.96
116.35	6763.97	117.36	6763.97	117.5	6763.98	118.93	6763.95	119.5	6763.95
120.5	6763.93	121.93	6763.92	122.37	6763.91	123.49	6763.91	123.93	6763.9
124.49	6763.92	124.93	6763.92	127.93	6763.98	128.48	6763.98	130.93	6764.03
131.47	6764.03	133.93	6764.08	134.46	6764.06	135.4	6764.04	135.46	6764.03
136.93	6764	138.93	6763.92	140.45	6763.92	140.93	6763.93	142.45	6763.93
144.42	6763.99	145.93	6764	146.93	6764.02	147.93	6764.03	148.93	6764.03
149.43	6764.04	150.93	6764.04	151.42	6764.05	153.93	6764.05	154.93	6764.03
155.45	6764.03	156.41	6764.01	157.45	6764.01	157.93	6764	158.93	6764
159.93	6763.98	160.46	6763.98	161.4	6763.96	162.4	6763.95	162.47	6763.97
162.93	6763.96	163.93	6763.97	165.47	6764.06	165.93	6764.08	166.93	6764.14
167.39	6764.16	168.93	6764.19	170.48	6764.18	170.93	6764.17	171.93	6764.17
172.37	6764.16	173.49	6764.16	173.93	6764.15	174.93	6764.16	175.37	6764.15
175.93	6764.16	176.36	6764.15	177.36	6764.15	177.5	6764.14	178.5	6764.14
178.93	6764.13	179.93	6764.18	180.35	6764.19	181.35	6764.24	183.52	6764.32
185.52	6764.38	187.34	6764.42	187.53	6764.4				

272.73	6763.72	276.13	6763.72	277.12	6763.71	277.74	6763.72	278.93	6763.72
279.12	6763.73	280.12	6763.74	280.75	6763.76	282.11	6763.78	284.11	6763.74
284.76	6763.71	286.1	6763.67	287.1	6763.63	287.77	6763.68	287.93	6763.67
288.93	6763.72	289.77	6763.72	289.93	6763.73	290.93	6763.73	291.09	6763.74
292.09	6763.74	292.78	6763.72	293.78	6763.71	297.08	6763.58	298.79	6763.55
302.06	6763.55	304.06	6763.53	306.81	6763.59	307.05	6763.59	308.82	6763.63
309.93	6763.63	310.04	6763.64	310.93	6763.64	311.04	6763.65	312.04	6763.67
313.83	6763.72	318.03	6763.76	319.84	6763.8	321.02	6763.84	321.85	6763.86
323.85	6763.96	324.01	6763.96	324.85	6764.01	325.01	6764.01	326.01	6764.07
327	6764.12	327.86	6764.15	329	6764.21	331.87	6764.26	331.99	6764.27
332.87	6764.26	334.03	6764.26	334.49	6764.28	335.74	6764.3	337.35	6764.34
338.06	6764.34	339	6764.36	340.24	6764.37	341.48	6764.42	342.72	6764.48
345.24	6764.58	346.44	6764.6	347.36	6764.6	349.51	6764.57	349.75	6764.58
350.94	6764.56	352.64	6764.55	353.69	6764.52	355.38	6764.5	357.07	6764.47
357.6	6764.47	358.76	6764.45	360.09	6764.44	363.83	6764.44	365.05	6764.47
365.96	6764.47	366.29	6764.46	367.39	6764.46	367.53	6764.45	368.41	6764.45
368.77	6764.44	370.25	6764.44	371.25	6764.4	372.49	6764.38	373.73	6764.35
374.55	6764.32	374.97	6764.32	376.69	6764.27	377.35	6764.26	378.69	6764.18
379.04	6764.15	383.66	6763.89	384.11	6763.89	384.9	6763.87	386.14	6763.86
387.08	6763.84	387.49	6763.84	388.14	6763.82	389.57	6763.79	391	6763.79
391.1	6763.78	393.58	6763.78	393.86	6763.79	394.82	6763.78	395.29	6763.8
396.42	6763.77	396.72	6763.8	397.3	6763.78	398.15	6763.8	398.54	6763.78
402.69	6763.78	403.16	6763.79	404.38	6763.79	405.99	6763.85	406.74	6763.87
408.47	6763.94	411.75	6763.94	412.83	6763.95	413.89	6763.88	414.67	6763.82
416.04	6763.68	417.47	6763.52	418.39	6763.58	419.59	6763.36	419.75	6763.42
420.33	6763.05	420.87	6763.86	421.05	6764.06	421.76	6764.03	422.11	6764.04
422.97	6764.03	424.42	6764	426.77	6763.97	427.48	6763.98	431.42	6764.12
433.21	6764.2	434.8	6764.25	436.07	6764.28	438.42	6764.36	439.65	6764.39
440.72	6764.39	441.08	6764.4	442.51	6764.4	443.09	6764.41	443.94	6764.41
444.44	6764.42	446.08	6764.42	447.75	6764.4	449.66	6764.37	451.89	6764.33
453.39	6764.27	454.37	6764.22	456.1	6764.15	456.76	6764.11	458.09	6764.05
462.54	6763.94	464.29	6763.91	465.21	6763.95	466.9	6764	467.54	6764.03
468.02	6764.02	468.98	6764.02	470.28	6764	471.09	6764.01	476.84	6764.01
477.94	6763.96	480.42	6763.86	481.66	6763.86	481.85	6763.85	482.9	6763.85
484.71	6763.91	485.09	6763.93	486.14	6763.96	487.18	6764	488.29	6764.05
489.01	6764.07	489.76	6764.07	491.15	6764.09	491.87	6764.09	493.3	6764.11
494.07	6764.11	495.31	6764.13	497.32	6764.13	498.31	6764.14	500.27	6764.17
500.7	6764.17	501.51	6764.19	501.88	6764.18	503.76	6764.18	503.99	6764.17
505.77	6764.17	507.71	6763.84	508.43	6763.76	508.95	6763.69	510.2	6763.55
510.47	6763.47	510.84	6763.48	511.44	6763.41	511.9	6763.28	512.53	6763.28
513.09	6763.21	513.33	6763.08	513.92	6763.08	514.22	6763.11	515.16	6763.25
515.91	6763.37	516.91	6763.51	519.28	6763.87	520.12	6763.99	521.36	6764.12
522.6	6764.26	524.06	6764.28	525.08	6764.3	526.32	6764.31	527.73	6764.07
528.35	6763.97	528.65	6763.99						

Manning's n Values		num=	5						
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24.27	.025	37.08	.05	207.05	.04	243.93	.05
Bank Sta: Left	Right	Lengths: Left	Channel	Right		Coeff	Contr.	Expan.	
207.05	243.93	309.31	313.36	309.31			.1	.3	

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 999

INPUT

Description:

Station	Elevation	Data	num=	489					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-6.63	6766.8	-6.11	6766.81	-5.08	6766.82	-4.36	6766.84	-.97	6766.84
-.46	6766.85	.51	6766.85	.79	6766.86	1.79	6766.86	2.12	6766.85
4.17	6766.85	4.41	6766.84	5.38	6766.84	6.23	6766.82	6.79	6766.8
9.28	6766.7	9.8	6766.69	11.23	6766.63	11.37	6766.63	12.4	6766.58
12.8	6766.57	13.42	6766.54	13.8	6766.53	15.48	6766.45	16.1	6766.43
16.8	6766.43	17.07	6766.42	17.54	6766.42	18.57	6766.4	19.02	6766.4
20.97	6766.38	21.65	6766.36	21.94	6766.36	25.84	6766.32	26.07	6766.3
26.79	6766.25	26.81	6766.24	27.79	6766.17	27.82	6766.16	28.76	6766.08
29.73	6765.99	29.88	6765.97	30.9	6765.88	31.93	6765.8	32.66	6765.75

33.63	6765.65	34.6	6765.54	35.8	6765.42	36.55	6764.86	37.53	6764.14
38.1	6763.71	38.19	6763.64	38.5	6763.42	39.13	6762.95	39.47	6762.92
39.81	6762.67	40.81	6762.26	41.18	6762.07	41.81	6761.76	42.21	6761.75
42.4	6761.46	43.24	6761.45	43.81	6761.45	44.27	6761.44	44.81	6761.44
45.3	6761.43	45.81	6761.43	46.29	6761.08	46.33	6760.95	46.81	6760.59
47.27	6760.76	47.35	6760.8	47.81	6760.97	48.38	6761.24	48.81	6761.43
49.81	6761.9	50.19	6762	50.44	6762.13	50.81	6762.23	51.81	6762.18
52.14	6762.17	52.49	6762.14	52.81	6762.13	53.52	6762.08	53.81	6762.07
54.81	6762	56.03	6761.94	57.01	6761.91	57.64	6761.9	58.66	6761.87
58.95	6761.87	59.93	6761.84	60.9	6761.82	61.75	6761.78	63.83	6761.78
64.2	6761.79	65.86	6761.79	66.75	6761.83	66.89	6761.83	67.92	6761.78
69.97	6761.7	70.82	6761.66	71	6761.66	71.62	6761.63	72.59	6761.62
73.06	6761.62	73.57	6761.61	74.55	6761.61	74.82	6761.6	75.82	6761.6
76.1	6761.61	76.54	6761.58	79.11	6761.66	79.52	6761.68	79.82	6761.68
80.82	6761.72	81.51	6761.69	82.5	6761.63	82.82	6761.62	84.49	6761.52
84.82	6761.51	85.82	6761.45	86.16	6761.45	86.48	6761.43	89.18	6761.43
89.46	6761.42	90.82	6761.42	91.19	6761.41	91.44	6761.42	94.21	6761.34
95.82	6761.29	96.23	6761.3	96.41	6761.29	97.82	6761.31	99.25	6761.34
99.82	6761.34	100.82	6761.36	102.37	6761.33	104.28	6761.29	104.36	6761.28
106.29	6761.24	106.35	6761.25	106.82	6761.24	107.34	6761.24	109.82	6761.19
110.32	6761.19	110.82	6761.18	111.32	6761.18	111.32	6761.16	111.82	6761.16
112.82	6761.12	113.34	6761.09	115.82	6760.99	116.28	6761.01	116.36	6761.07
116.82	6761.09	117.36	6761.18	118.27	6761.32	118.37	6761.33	119.26	6761.47
119.38	6761.48	120.38	6761.64	120.82	6761.7	121.25	6761.74	121.39	6761.69
121.82	6761.73	122.4	6761.71	123.24	6761.69	123.4	6761.68	124.23	6761.66
125.82	6761.61	130.82	6761.61	131.19	6761.62	131.45	6761.64	131.82	6761.65
133.18	6761.73	133.47	6761.74	135.16	6761.84	135.82	6761.87	136.49	6761.88
137.15	6761.9	137.49	6761.9	139.14	6761.93	139.51	6761.93	140.51	6761.95
141.12	6761.94	141.52	6761.87	141.82	6761.86	142.53	6761.78	146.09	6761.39
146.55	6761.37	146.82	6761.34	147.56	6761.29	147.82	6761.28	149.07	6761.19
149.82	6761.14	150.07	6761.13	150.58	6761.09	151.06	6761.07	151.58	6761.14
151.82	6761.13	152.59	6761.19	152.82	6761.2	153.6	6761.26	154.04	6761.3
155.03	6761.37	155.61	6761.42	156.03	6761.43	157.02	6761.48	158.63	6761.54
159.01	6761.56	159.64	6761.58	160.64	6761.63	161	6761.63	161.65	6761.57
161.99	6761.55	162.66	6761.49	162.98	6761.47	163.66	6761.41	164.67	6761.34
164.82	6761.32	165.68	6761.26	165.82	6761.24	165.96	6761.26	166.68	6761.24
166.82	6761.26	167.69	6761.25	170.82	6761.25	171.71	6761.32	171.93	6761.33
172.72	6761.39	173.73	6761.46	173.91	6761.48	175.9	6761.62	180.87	6761.72
181.86	6761.65	182.79	6761.59	182.86	6761.58	183.79	6761.52	183.85	6761.51
185.81	6761.37	186.81	6761.34	188.8	6761.26	189.86	6761.23	190.77	6761.19
191.76	6761.21	192.75	6761.22	192.9	6761.23	193.82	6761.24	193.91	6761.25
194.93	6761.26	195.94	6761.28	196.7	6761.37	196.95	6761.38	197.96	6761.49
198.98	6761.59	199.66	6761.65	199.99	6761.69	200.82	6761.77	201	6761.76
201.63	6761.69	201.82	6761.68	204.82	6761.38	205.05	6761.48	207.63	6761.18
212.42	6760.37	215.06	6760.13	218.01	6758.83	219.1	6757.8	219.17	6757.59
219.23	6757.51	219.29	6757.63	219.38	6757.93	220.32	6758.6	222.69	6758.71
225.06	6760.31	227.89	6760.64	230.06	6760.71	232.96	6761.08	235.06	6761.41
235.21	6760.72	235.83	6760.74	236.2	6760.8	236.45	6760.82	236.83	6760.87
237.83	6761.03	239.16	6761.23	239.49	6761.29	240.83	6761.49	242.13	6761.66
243.54	6761.86	244.1	6761.93	245.05	6762.06	245.83	6762.16	245.97	6762.15
246.88	6762.23	247.73	6762.14	247.86	6762.15	248.61	6762.09	248.87	6762.08
250.89	6761.92	251.26	6761.9	251.9	6761.88	252.14	6761.86	252.75	6761.84
253.93	6761.76	255.11	6761.69	255.94	6761.63	257.48	6761.56	257.96	6761.53
258.32	6761.56	258.66	6761.5	259.84	6761.57	260.97	6761.63	262	6761.62
262.21	6761.61	263.01	6761.6	264.02	6761.58	264.5	6761.6	264.57	6761.57
266.04	6761.63	266.26	6761.63	267.14	6761.66	267.75	6761.67	270.48	6761.74
270.67	6761.73	271.55	6761.75	272.11	6761.75	272.44	6761.76	273.12	6761.76
273.32	6761.77	274.03	6761.77	274.13	6761.78	274.71	6761.78	275.97	6761.8
276.85	6761.8	277.16	6761.81	278.17	6761.81	278.61	6761.82	279.5	6761.82
281.26	6761.84	282.14	6761.8	283.03	6761.78	283.49	6761.76	284.23	6761.74
285.24	6761.72	285.67	6761.7	286.25	6761.69	287.44	6761.73	289.4	6761.8
290.08	6761.82	290.97	6761.86	291.85	6761.88	292.32	6761.88	292.94	6761.89
293.61	6761.91	294.13	6761.91	295.31	6761.94	296.26	6761.97	297.37	6761.99
298.03	6762.01	298.38	6762.01	299.39	6762.03	299.79	6762.03	300.04	6762.05
301.41	6762.05	301.55	6762.04	304.2	6762.01	304.44	6762	305.95	6761.98
307.13	6761.98	307.47	6761.99	308.61	6762	311.26	6762.03	311.86	6762.03
312.14	6762.02	312.53	6762.04	316.59	6762.04	318.59	6762.06	319.6	6762.09
320.61	6762.11	320.97	6762.11	321.62	6762.13	322.5	6762.14	323.42	6762.14
323.68	6762.15	324.5	6762.14	325.66	6762.14	326.05	6762.13	326.67	6762.13
327.68	6762.15	328.41	6762.15	328.91	6762.17	329.59	6762.17	331.55	6762.25
332.74	6762.28	333.14	6762.28	333.75	6762.3	334.76	6762.31	335.08	6762.33

335.5	6762.33	336.68	6762.38	337.73	6762.4	339.05	6762.41	340.23	6762.43
340.82	6762.43	341.26	6762.4	341.41	6762.44	341.83	6762.41	343.03	6762.41
343.78	6762.4	344.29	6762.4	344.79	6762.39	346.14	6762.39	346.88	6762.38
347.32	6762.39	347.44	6762.38	347.89	6762.39	349.2	6762.39	349.69	6762.4
351.25	6762.4	351.85	6762.41	353.24	6762.41	353.61	6762.46	353.96	6762.46
354.5	6762.49	354.97	6762.53	355.38	6762.55	356.78	6762.65	357.14	6762.67
358.21	6762.71	359.15	6762.74	359.79	6762.74	360.02	6762.75	360.67	6762.75
361.03	6762.76	361.55	6762.76	362.69	6762.78	363.32	6762.78	364.2	6762.79
365.16	6762.81	365.97	6762.78	366.85	6762.77	368.1	6762.73	368.61	6762.72
369.11	6762.7	370.12	6762.67	370.38	6762.68	370.97	6762.64	372.12	6762.67
373.03	6762.68	373.33	6762.69	374.79	6762.71	376.19	6762.74	376.55	6762.73
376.88	6762.75	377.2	6762.74	377.44	6762.76	379.24	6762.88	380.97	6762.98
381.61	6763.02	382.25	6763.05	382.73	6763.02	382.79	6763.07	384.5	6762.97
385.38	6762.93	386.34	6762.87	387.3	6762.82	388.31	6762.83	388.91	6762.85
389.32	6762.85	389.79	6762.87	390.33	6762.88	391.35	6762.91	392.25	6762.93
393	6762.92	394.61	6762.88	395.08	6762.89	395.39	6762.88	395.97	6762.88
396.4	6762.89	397.41	6762.89	399.34	6762.84	399.95	6762.84	400.38	6762.85
401.45	6762.85	401.7	6762.86	402.46	6762.86	403.08	6762.77		

Manning's n Values		num=	5						
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-6.63	.016	26.07	.025	38.19	.05	205.05	.04	235.06	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
205.05	235.06	541.75	549.59	541.75		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 998.8

INPUT

Description:

Station	Elevation	Data	num=	480					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.74	.26	6765.74	.97	6765.75	1.27	6765.75	1.97	6765.76
2.97	6765.76	3.12	6765.77	3.28	6765.76	4.28	6765.76	4.96	6765.75
5.29	6765.74	5.95	6765.73	6.29	6765.73	7.12	6765.72	7.3	6765.71
7.94	6765.7	8.3	6765.7	8.94	6765.77	9.93	6765.74	10.31	6765.72
10.93	6765.71	11.32	6765.69	12.92	6765.64	13.12	6765.64	13.91	6765.6
14.33	6765.6	15.91	6765.57	16.34	6765.57	18.35	6765.53	18.89	6765.44
19.35	6765.41	20.36	6765.37	20.88	6765.34	22.12	6765.29	22.37	6765.27
23.12	6765.24	28.12	6765.24	28.4	6765.23	28.84	6765.2	30.12	6765.15
30.41	6765.13	30.84	6765.12	31.12	6765.1	31.83	6765.07	32.42	6765.05
33.12	6765.01	33.42	6765.01	33.82	6764.89	34.12	6764.89	34.82	6764.87
35.12	6764.87	35.81	6764.85	36.12	6764.85	36.81	6764.83	37.12	6764.83
37.8	6764.81	38.12	6764.81	38.44	6764.49	38.8	6764.28	39.12	6763.96
39.45	6763.65	39.79	6763.31	40.12	6763	40.45	6762.67	40.79	6762.35
41.91	6761.26	43.12	6760.09	43.47	6760.03	43.77	6759.97	44.47	6759.85
44.77	6759.79	45.77	6759.62	46.12	6759.55	47.12	6759.38	47.76	6759.26
48.12	6759.2	48.49	6759.19	48.75	6759.2	49.12	6759.2	49.5	6759.19
50.12	6759.19	51.12	6759.17	51.51	6759.17	51.74	6759.16	52.12	6759.16
52.51	6759.15	53.12	6759.15	53.51	6759.24	53.73	6759.21	54.52	6759.39
55.12	6759.54	56.12	6759.77	56.53	6759.87	57.12	6760	58.12	6760.24
58.54	6760.28	58.7	6760.35	59.54	6760.43	59.7	6760.44	60.55	6760.52
60.7	6760.54	61.55	6760.62	62.12	6760.67	62.56	6760.72	63.12	6760.77
63.68	6760.76	64.12	6760.74	65.12	6760.72	65.57	6760.7	66.58	6760.68
66.67	6760.67	67.58	6760.65	67.66	6760.66	68.12	6760.65	68.59	6760.67
68.66	6760.59	69.12	6760.62	69.65	6760.64	70.12	6760.67	71.12	6760.71
71.6	6760.74	72.12	6760.76	72.6	6760.79	73.12	6760.81	73.61	6760.75
73.63	6760.79	74.61	6760.67	75.12	6760.6	75.63	6760.54	76.12	6760.47
77.12	6760.35	77.62	6760.28	78.12	6760.22	78.61	6760.25	78.63	6760.28
79.12	6760.32	79.61	6760.38	79.64	6760.39	80.6	6760.51	81.12	6760.57
81.6	6760.64	81.65	6760.64	83.12	6760.83	83.59	6760.81	83.66	6760.76
84.12	6760.74	84.58	6760.69	85.67	6760.55	86.57	6760.43	86.67	6760.42
87.57	6760.3	88.12	6760.23	88.68	6760.23	89.12	6760.22	89.27	6760.22
89.68	6760.22	90.12	6760.21	90.69	6760.21	91.12	6760.2	91.69	6760.2
92.12	6760.19	92.7	6760.19	93.54	6760.17	93.7	6760.07	94.12	6760.05
94.71	6759.94	95.53	6759.78	95.71	6759.74	96.53	6759.58	97.72	6759.34
98.12	6759.27	98.52	6759.23	98.73	6759.28	99.12	6759.24	99.73	6759.25

100.51	6759.27	100.74	6759.27	101.5	6759.29	102.12	6759.31	102.5	6759.31
103.12	6759.33	103.49	6759.29	103.75	6759.27	104.05	6759.24	104.76	6759.16
105.12	6759.13	105.49	6759.09	105.76	6759.07	106.12	6759.03	106.48	6759
107.12	6758.93	108.12	6758.84	108.47	6758.87	108.77	6758.79	109.12	6758.82
110.12	6758.76	110.46	6758.73	111.46	6758.67	111.79	6758.64	112.45	6758.6
112.79	6758.57	113.12	6758.55	113.8	6758.18	114.8	6757.62	115.12	6757.45
115.44	6757.34	115.81	6757.07	116.12	6756.96	116.43	6757.01	116.55	6757.09
116.81	6757.26	117.12	6757.3	117.43	6757.49	117.82	6757.72	118.12	6757.91
118.43	6757.85	118.82	6758.14	119.12	6758.08	120.12	6758.42	120.42	6758.51
121.41	6758.85	122.12	6759.08	122.84	6759.32	123.12	6759.42	123.4	6759.48
123.85	6759.33	124.12	6759.39	124.85	6759.29	125.12	6759.26	125.39	6759.22
126.12	6759.13	126.39	6759.09	127.12	6759	127.38	6758.96	128.12	6758.87
128.38	6758.89	128.87	6758.85	129.05	6758.86	129.12	6758.87	129.37	6758.86
129.87	6758.85	130.37	6758.83	130.88	6758.82	131.36	6758.8	131.88	6758.79
132.36	6758.72	132.89	6758.76	133.12	6758.75	133.89	6758.87	134.35	6758.93
134.9	6759.02	135.35	6759.08	135.9	6759.17	136.34	6759.23	136.91	6759.32
137.34	6759.38	137.91	6759.47	138.12	6759.49	138.33	6759.47	138.92	6759.36
139.33	6759.31	139.92	6759.21	140.12	6759.17	141.32	6758.98	141.93	6758.87
143.12	6758.68	143.31	6758.66	143.94	6758.69	144.3	6758.68	145.3	6758.71
145.95	6758.72	146.29	6758.73	147.12	6758.74	147.29	6758.75	147.96	6758.76
148.29	6758.76	148.96	6758.8	149.28	6758.81	149.97	6758.84	151.98	6758.92
152.27	6758.94	152.98	6758.97	153.99	6758.94	154.26	6758.92	157.24	6758.8
158.01	6758.76	158.24	6758.74	159.01	6758.74	159.12	6758.73	160.12	6758.72
160.23	6758.71	161.02	6758.7	162.22	6758.69	163.03	6758.67	163.22	6758.68
164.03	6758.75	164.21	6758.76	165.04	6758.83	165.21	6758.84	166.04	6758.91
166.91	6758.98	168.06	6759.07	168.18	6759.09	169.08	6759.33	169.17	6759.36
170.09	6759.6	170.15	6759.62	171.11	6759.87	172.12	6760.14	173.11	6760.4
174.15	6760.4	175.09	6760.41	177.12	6760.41	177.19	6760.4	178.05	6760.41
179.03	6760.34	179.22	6760.32	180.02	6760.27	180.23	6760.25	181.01	6760.2
182.12	6760.11	182.26	6760.11	182.98	6760.05	183.27	6760.06	183.97	6760.12
184.29	6760.14	185.3	6760.23	186.93	6760.36	187.33	6760.37	187.91	6760.44
188.13	6760.43	188.9	6760.31	189.89	6760.14	190.13	6760.11	190.87	6759.98
191.86	6759.82	192.13	6759.78	192.4	6759.76	192.85	6759.66	193.13	6759.64
194.43	6759.6	195.81	6759.56	196.13	6759.54	197.13	6759.51	197.47	6759.58
197.78	6759.49	198.13	6759.56	198.77	6759.71	199.5	6759.87	199.75	6759.93
200.13	6760.01	202.13	6760.47	202.54	6760.48	202.71	6760.6	203.13	6760.61
203.55	6760.61	203.7	6760.68	204.13	6760.68	204.69	6760.74	205.67	6760.85
206.13	6760.91	207.13	6761.02	208.13	6761.14	209.62	6760.84	209.64	6760.84
210.61	6760.66	210.65	6760.7	211.13	6760.62	211.59	6760.58	211.66	6760.63
212.13	6760.59	212.58	6760.59	212.68	6760.51	213.13	6760.51	213.57	6760.52
213.69	6760.53	214.13	6760.54	214.71	6760.54	215.13	6760.55	215.54	6760.55
215.72	6760.56	216.53	6760.56	216.73	6760.57	217.13	6760.57	217.51	6760.58
218.13	6760.58	219.77	6760.53	220.13	6760.51	221.8	6760.46	222.13	6760.44
222.45	6760.43	222.82	6760.5	223.13	6760.49	223.43	6760.53	223.83	6760.57
224.42	6760.65	224.84	6760.7	225.41	6760.76	225.86	6760.82	226.39	6760.88
227.38	6761	227.89	6761.05	228.13	6761.08	228.9	6761.09	229.35	6761.09
230.34	6761.11	231.13	6761.11	231.32	6761.12	231.94	6761.12	232.13	6761.13
233.3	6761.13	234.28	6761.07	234.98	6761.04	235.27	6761.02	236	6760.98
236.26	6760.97	237.01	6760.93	237.24	6760.91	238.13	6760.82	238.23	6760.82
239.04	6760.85	239.22	6760.86	240.05	6760.89	240.2	6760.9	241.07	6760.93
241.19	6760.93	242.08	6760.97	242.18	6760.97	243.1	6760.93	244.11	6760.9
245.14	6760.88	245.66	6760.86	247.11	6760.83	248.17	6760.83	250.07	6760.85
251.21	6760.85	252.22	6760.86	253.03	6760.82	254.25	6760.81	255	6760.8
256.28	6760.8	256.98	6760.79	257.29	6760.79	257.96	6760.78	258.3	6760.79
258.95	6760.85	259.32	6760.88	259.94	6760.87	260.13	6760.89	260.92	6760.9
261.35	6760.9	261.91	6760.91	262.36	6760.91	262.9	6760.92	263.37	6760.92
263.88	6760.93	264.39	6760.94	265.13	6760.94	265.4	6760.95	265.86	6760.95
266.13	6760.96	266.42	6760.95	266.84	6760.96	267.13	6760.96	268.13	6760.93
269.13	6760.93	269.46	6760.94	270.79	6760.94	271.13	6760.95	273.75	6760.95
274.13	6760.94	274.74	6760.94	275.13	6760.93	275.72	6760.93	276.13	6760.92
276.56	6760.93	276.71	6760.92	277.57	6760.94	278.13	6760.95	278.32	6761.01

Manning's n Values		num=	4				
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	41.91	.04	104.05	.04	129.05	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	104.05	129.05		78.95 79.9	78.95		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 998.7

INPUT

Description:

Station	Elevation	Data	num=	27					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6765.63	.44	6765.63	.95	6765.62	5.44	6765.45	5.97	6765.43
10.44	6765.37	10.99	6765.32	15.44	6765.16	16.01	6765.18	20.45	6765.08
21.03	6765.07	25.45	6765	26.05	6764.98	28	6764.85	30	6764.74
32.69	6762.99	37.55	6759.64	45.53	6758.4	47.17	6759.09	55.96	6761.83
56.71	6761.84	62.8	6761.81	63.42	6761.82	74.49	6759.52	83.28	6762.7
88.08	6765	149.19	6765						

Manning's n	Values	num=	3		
Sta	n Val	Sta	n Val	Sta	n Val
0	.016	32.69	.04	83.28	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	32.69	83.28		137.57	137.57	137.57	.1 .3

INLINE STRUCTURE

RIVER: Walton Creek
REACH: lower-split RS: 998.6

INPUT

Description: New Overflow Weir

Distance from Upstream XS = 28.64

Deck/Roadway Width = 10

Weir Coefficient = 2.6

Weir Embankment Coordinates num = 2

Sta	Elev	Sta	Elev
32.69	6763	83.75	6763

Upstream Embankment side slope = 3 horiz. to 1.0 vertical

Downstream Embankment side slope = 3 horiz. to 1.0 vertical

Maximum allowable submergence for weir flow = .95

Elevation at which weir flow begins =

Weir crest shape = Broad Crested

INLINE STRUCTURE OUTPUT Profile #100-yr Inline Structure

E.G. Elev (ft)	6765.09	Weir Sta Lft (ft)	20.02
W.S. Elev (ft)	6765.03	Weir Sta Rgt (ft)	149.19
Q Total (cfs)	428.72	Min El Weir Flow (ft)	6762.94
Q Weir (cfs)	428.72	Wr Top Wdth (ft)	129.17
Q Gates (cfs)		Weir Max Depth (ft)	2.17
Q Culv (cfs)		Weir Avg Depth (ft)	0.94
Q Inline RC (cfs)		Weir Flow Area (sq ft)	121.62
Q Outlet TS (cfs)		Weir Coef (ft ^{1/2})	2.600
Q Breach (cfs)		Weir Submerg	0.00
Breach Avg Velocity (ft/s)		Q Gate Group (cfs)	
Breach Flow Area (sq ft)		Gate Open Ht (ft)	
Breach WD (ft)		Gate #Open	
Breach Top El (ft)		Gate Area (sq ft)	
Breach Bottom El (ft)		Gate Submerg	
Breach SSL (ft)		Gate Invert (ft)	
Breach SSR (ft)		Gate Weir Coef	

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 998.56

INPUT

Description:

Station	Elevation	Data	num=	7	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6764.21	14.57	6757.62	18.03	6758.71	25.83	6759.59	68.72	6759.06			
87.95	6761.34	89.94	6761.46									

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	87.95	.045

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
0	87.95	139.94	139.94	139.94	.1	.3		

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split RS: 998.5

INPUT

Description:

Station	Elevation	Data	num=	108	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
.78	6764.75	2.05	6764.79	4.72	6764.72	7.05	6764.7	9.74	6764.69			
12.05	6764.6	14.76	6764.5	17.05	6764.44	19.79	6764.4	22.05	6764.33			
24.3	6764.29	27.05	6764.18	29.83	6764.15	32.05	6764.11	32.39	6764.09			
33.74	6764.02	34.85	6763.95	37.05	6763.81	37.96	6763.53	38.9	6763.25			
41.67	6760.48	42.05	6758.69	42.55	6758.61	44.85	6758.24	47.05	6757.85			
48.93	6757.02	50.46	6757.2	50.92	6757.25	52.05	6758.01	53.89	6758.09			
54.95	6758.14	57.25	6758.62	57.43	6758.63	59.33	6758.68	62.06	6759.18			
62.96	6759.02	64.95	6758.67	65.75	6758.68	67.06	6759.19	69.2	6759.22			
71.47	6759.17	72.1	6759.15	75.43	6759.16	77.32	6759.22	81.62	6758.9			
82.55	6758.85	82.96	6758.83	87.78	6758.6	90.49	6758.65	93.01	6758.78			
94.35	6758.78	98.24	6758.72	98.4	6758.76	99.06	6758.95	99.86	6758.95			
100.2	6758.93	103.43	6758.77	105.18	6758.81	108.6	6758.69	112.19	6758.47			
113.77	6758.45	118.18	6758.5	118.94	6758.52	119.21	6758.56	124.11	6759.17			
126.75	6760.84	128.76	6760.61	130.26	6760.51	133.74	6760.04	134.45	6759.48			
136.03	6760.17	137.85	6759.7	139.33	6760	139.62	6759.82	140.25	6759.84			
144.79	6759.92	146.13	6761.68	146.32	6761.27	147.51	6761.16	148.29	6761.09			
149.81	6762.64	150.35	6762.56	150.71	6762.65	150.71	6761.72	150.72	6761.72			
151.48	6761.71	151.52	6761.7	151.54	6761.7	151.63	6761.67	152.36	6761.29			
152.55	6761.21	152.89	6761.08	153.18	6760.96	153.59	6760.8	154	6760.45			
154.29	6760.52	154.62	6760.28	154.82	6760.03	155.56	6760.02	155.64	6760.01			
155.69	6760.01	156.46	6760.02	156.69	6760.02	156.81	6760.02	157.52	6760.04			
160.3	6760.07	161.28	6760.05	161.9	6760.05							

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
.78	.016	32.39	.025	42.55	.4	57.43	.02	147.51	.016

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
42.55	57.43	146.04	146.04	146.04	.3	.5		

Ineffective Flow	num=	1
Sta L Sta R Elev	Permanent	F
146.13 161.9 6761.68		

CULVERT

RIVER: Walton Creek

REACH: lower-split RS: 998.46

INPUT

Description: Stone Lane Culverts

Distance from Upstream XS = 7

Deck/Roadway Width = 50

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num=	68	Sta Hi Cord Lo Cord	Sta Hi Cord Lo Cord	Sta Hi Cord Lo Cord
-24.1	6764.58	0	-23.72	6764.58
0			0	-19.37
				6764.36
				0

-18.72	6764.33	0	-14.5	6764.23	0	-13.72	6764.19	0
-9.63	6764.02	0	-8.72	6764	0	-7.75	6763.99	0
-3.71	6764.05	0	.11	6763.91	0	1.29	6763.88	0
4.98	6763.72	0	6.29	6763.67	0	9.85	6763.72	0
11.29	6763.74	0	14.72	6763.67	0	16.29	6763.55	0
19.59	6763.45	0	21.3	6763.47	0	24.46	6763.41	0
26.3	6763.33	0	28.24	6763.26	0	31.3	6763.12	0
34.2	6762.99	0	36.3	6762.91	0	39.07	6762.86	0
41.3	6762.79	0	43.94	6762.69	0	46.3	6762.61	0
48.81	6762.48	0	51.31	6762.33	0	53.69	6762.29	0
56.31	6762.21	0	58.56	6762.19	0	61.31	6762.1	0
64.22	6762.05	0	66.31	6761.97	0	68.3	6761.9	0
71.31	6761.78	0	73.17	6761.8	0	76.32	6761.82	0
78.04	6761.79	0	81.32	6761.69	0	82.91	6761.65	0
86.32	6761.61	0	87.78	6761.58	0	91.32	6761.58	0
92.65	6761.56	0	96.32	6761.55	0	100.2	6761.45	0
101.32	6761.42	0	102.39	6761.4	0	106.33	6761.39	0
107.26	6761.39	0	111.33	6761.4	0	112.13	6761.39	0
116.33	6761.35	0	117	6761.32	0	121.33	6761.12	0
121.87	6761.14	0	126.33	6761.31	0	126.75	6761.3	0
131.34	6761.18	0	131.62	6761.18	0	136.34	6761.08	0
137.12	6761.08	0	150	6761.08	0			

Upstream Bridge Cross Section Data

Station Elevation Data		num= 108							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
.78	6764.75	2.05	6764.79	4.72	6764.72	7.05	6764.7	9.74	6764.69
12.05	6764.6	14.76	6764.5	17.05	6764.44	19.79	6764.4	22.05	6764.33
24.3	6764.29	27.05	6764.18	29.83	6764.15	32.05	6764.11	32.39	6764.09
33.74	6764.02	34.85	6763.95	37.05	6763.81	37.96	6763.53	38.9	6763.25
41.67	6760.48	42.05	6758.69	42.55	6758.61	44.85	6758.24	47.05	6757.85
48.93	6757.02	50.46	6757.2	50.92	6757.25	52.05	6758.01	53.89	6758.09
54.95	6758.14	57.25	6758.62	57.43	6758.63	59.33	6758.68	62.06	6759.18
62.96	6759.02	64.95	6758.67	65.75	6758.68	67.06	6759.19	69.2	6759.22
71.47	6759.17	72.1	6759.15	75.43	6759.16	77.32	6759.22	81.62	6758.9
82.55	6758.85	82.96	6758.83	87.78	6758.6	90.49	6758.65	93.01	6758.78
94.35	6758.78	98.24	6758.72	98.4	6758.76	99.06	6758.95	99.86	6758.95
100.2	6758.93	103.43	6758.77	105.18	6758.81	108.6	6758.69	112.19	6758.47
113.77	6758.45	118.18	6758.5	118.94	6758.52	119.21	6758.56	124.11	6759.17
126.75	6760.84	128.76	6760.61	130.26	6760.51	133.74	6760.04	134.45	6759.48
136.03	6760.17	137.85	6759.7	139.33	6760	139.62	6759.82	140.25	6759.84
144.79	6759.92	146.13	6761.68	146.32	6761.27	147.51	6761.16	148.29	6761.09
149.81	6762.64	150.35	6762.56	150.71	6762.65	150.71	6761.72	150.72	6761.72
151.48	6761.71	151.52	6761.7	151.54	6761.7	151.63	6761.67	152.36	6761.29
152.55	6761.21	152.89	6761.08	153.18	6760.96	153.59	6760.8	154	6760.45
154.29	6760.52	154.62	6760.28	154.82	6760.03	155.56	6760.02	155.64	6760.01
155.69	6760.01	156.46	6760.02	156.69	6760.02	156.81	6760.02	157.52	6760.04
160.3	6760.07	161.28	6760.05	161.9	6760.05				

Manning's n Values		num= 5							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
.78	.016	32.39	.025	42.55	.4	57.43	.02	147.51	.016

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	42.55	57.43	.3	.5

Ineffective Flow		num= 1	
Sta L	Sta R	Elev	Permanent
146.13	161.9	6761.68	F

Downstream Deck/Roadway Coordinates

num= 67							
Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord
-15.53	6764.58	0	-15.15	6764.58	0	-10.8	6764.36
-10.15	6764.33	0	-5.93	6764.23	0	-5.15	6764.19
-1.06	6764.02	0	-.15	6764	0	.82	6763.99
4.86	6764.05	0	8.68	6763.91	0	9.86	6763.88
13.55	6763.72	0	14.86	6763.67	0	18.42	6763.72
19.86	6763.74	0	23.29	6763.67	0	24.86	6763.55
28.16	6763.45	0	29.87	6763.47	0	33.03	6763.41
34.87	6763.33	0	36.81	6763.26	0	39.87	6763.12
42.77	6762.99	0	44.87	6762.91	0	47.64	6762.86

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.65	.47	6763.65	.88	6763.64	1.08	6763.64	1.68	6763.63
5.22	6763.63	5.82	6763.64	6.15	6763.64	6.61	6763.65	7.4	6763.65
8.01	6763.63	8.19	6763.63	8.25	6763.62	9.31	6763.62	9.77	6763.61
10.36	6763.61	10.56	6763.6	11.36	6763.6	11.42	6763.59	11.54	6763.59
12.15	6763.58	12.47	6763.58	12.94	6763.55	13.12	6763.54	13.52	6763.51
13.73	6763.5	14.33	6763.45	14.52	6763.44	14.58	6763.44	14.7	6763.43
15.31	6763.39	15.63	6763.37	16.1	6763.33	16.28	6763.33	16.69	6763.31
16.89	6763.3	17.49	6763.27	17.52	6763.27	17.68	6763.26	17.74	6763.25
17.86	6763.24	18.47	6763.17	18.8	6763.11	19.26	6763	19.45	6762.95
19.85	6762.85	20.05	6762.8	20.66	6762.65	20.84	6762.6	20.9	6762.59
20.91	6762.59	21.03	6762.55	21.63	6762.34	21.96	6762.27	22.42	6762.06
22.61	6762.02	23.01	6761.85	23.21	6761.93	23.82	6762.04	24	6762.08
24.07	6761.99	24.19	6761.77	24.79	6760.6	25.12	6760.04	25.59	6758.87
25.77	6759.14	26.17	6758.28	26.38	6758.35	26.98	6758.58	27.17	6758.86
27.23	6758.83	27.35	6758.73	27.96	6759.56	28.28	6759.12	28.75	6759.1
28.93	6759.09	29.34	6759.08	29.54	6759.07	30.14	6759.04	30.33	6759.04
30.39	6759.03	30.51	6759.04	31.12	6759.01	31.44	6759.02	31.91	6759.03
32.09	6759.05	32.5	6759.06	32.7	6759.08	33.31	6759.13	33.41	6759.14
33.49	6759.14	33.55	6759.15	33.68	6759.16	34.28	6759.24	34.61	6759.28
35.07	6759.08	35.26	6759.18	35.66	6759.05	35.86	6758.98	36.47	6758.62
36.65	6758.52	36.71	6758.47	36.84	6758.37	37.44	6757.81	37.77	6757.56
38.23	6757.15	38.42	6757.06	38.82	6756.72	39.03	6756.75	39.63	6756.49
39.82	6756.48	39.88	6756.51	40	6756.42	40.61	6756.79	40.93	6756.42
41.4	6756.51	41.58	6757.3	41.99	6757.54	42.19	6757.73	42.79	6757.62
42.98	6757.67	43.04	6757.68	43.16	6757.57	43.77	6758.07	44.09	6757.61
44.56	6757.92	44.74	6757.71	45.15	6757.91	45.35	6758	45.91	6758.28
45.96	6758.3	46.14	6758.41	46.2	6758.42	46.32	6758.48	46.93	6758.77
47.26	6758.93	47.72	6759.16	47.91	6759.24	48.31	6759.44	48.51	6759.53
49.12	6759.77	49.3	6759.84	49.36	6759.86	49.49	6759.86	50.09	6759.83
50.42	6759.82	50.88	6759.79	51.07	6759.79	51.47	6759.77	51.67	6759.76
52.28	6759.66	52.46	6759.64	52.53	6759.63	52.65	6759.61	53.26	6759.52
53.58	6759.47	54.05	6759.4	54.23	6759.37	54.63	6759.31	54.84	6759.31
55.44	6759.3	55.81	6759.3	56.42	6759.27	56.74	6759.26	57.21	6759.24
57.39	6759.23	57.8	6759.22	58	6759.21	58.6	6759.18	58.97	6759.18
59.58	6759.19	59.9	6759.17	60.37	6759.18	60.56	6759.16	61.16	6759.16
61.77	6759.13	62.01	6759.13	62.14	6759.12	62.74	6759.14	63.07	6

90.6	6756.58	91.04	6756.53	91.2	6756.51	91.53	6756.53	91.99	6756.56
92.18	6756.55	92.58	6756.57	92.78	6756.58	93.64	6756.58	93.76	6756.59
94.36	6756.6	94.69	6756.61	95.16	6756.62	95.34	6756.63	95.74	6756.64
95.95	6756.66	96.55	6756.7	96.74	6756.72	96.8	6756.73	96.92	6756.73
97.53	6756.77	97.85	6756.77	98.32	6756.85	98.5	6756.79	98.91	6756.83
99.11	6756.85	99.71	6756.92	99.9	6756.95	99.96	6756.95	100.08	6756.98
100.69	6757.09	101.01	6757.18	101.48	6757.36	101.66	6757.43	102.07	6757.59
102.27	6757.65	102.88	6757.81	103.06	6757.86	103.12	6757.87	103.25	6757.88
103.85	6758	104.18	6758.02	104.64	6758.02	104.83	6758.21	105.23	6758.25
105.43	6758.29	106.04	6758.55	106.22	6758.59	106.29	6758.61	106.41	6758.64
106.52	6758.66	107.01	6758.75	107.34	6758.85	107.8	6758.89	107.99	6758.99
108.39	6759.04	108.6	6759.07	109.2	6759.15	109.39	6759.17	109.45	6759.18
109.57	6759.19	110.18	6759.27	110.5	6759.31	110.97	6759.37	111.15	6759.41
111.56	6759.46	111.76	6759.49	112.36	6759.58	112.55	6759.61	112.61	6759.62
112.73	6759.62	113.34	6759.63	113.66	6759.64	114.13	6759.67	114.31	6759.66
114.72	6759.67	114.92	6759.69	115.53	6759.72	115.71	6759.74	115.77	6759.75
115.9	6759.76	116.5	6759.9	116.83	6759.91	117.29	6759.98	117.48	6759.97
117.88	6760.02	118.08	6760.04	118.69	6760.04	118.87	6760.05	119.06	6760.05
119.66	6760.08	119.99	6760.09	120.45	6760.11	120.64	6760.12	121.04	6760.14
121.24	6760.15	121.85	6760.18	122.03	6760.19	122.1	6760.2	122.22	6760.19
122.83	6760.25	123.15	6760.23	123.62	6760.27	123.8	6760.29	124.2	6760.32
124.41	6760.34	125.01	6760.39	125.2	6760.4	125.26	6760.41	125.38	6760.42
125.99	6760.47	126.31	6760.49	126.78	6760.53	126.96	6760.53	127.37	6760.56
127.57	6760.57	128.17	6760.59	128.36	6760.6	128.54	6760.6	129.15	6760.63
129.48	6760.64	129.94	6760.66	130.13	6760.66	130.53	6760.68	130.73	6760.69
131.34	6760.73	131.52	6760.74	131.58	6760.74	131.71	6760.75	132.31	6760.79
132.64	6760.81	132.74	6760.81	133.12	6760.84	133.2	6760.84	133.66	6760.87
133.96	6760.88	134.51	6760.9	134.69	6760.91	134.8	6760.91	135.31	6760.92
135.71	6760.92	135.83	6760.93	136.48	6760.94	136.74	6760.95	137.15	6761.04
137.32	6761.07	137.76	6761.17	138.15	6761.26	138.46	6761.32	138.79	6761.39
138.99	6761.44	139.78	6761.61	139.81	6761.62	139.83	6761.62	139.92	6761.64
140.67	6761.81	140.84	6761.84	141.1	6761.9	141.51	6761.99	141.86	6762.07
142.35	6762.18	142.41	6762.19	142.88	6762.3	143.18	6762.32	143.73	6762.36
143.91	6762.38	149.15	6762.38	149.89	6762.37	150.05	6762.36	150.31	6762.36
150.73	6762.35	151.08	6762.34	151.63	6762.34	152.1	6762.33	152.4	6762.32
152.95	6762.31	153.24	6762.31	153.76	6762.3	154.08	6762.29	154.26	6762.29
154.92	6762.28	155.18	6762.27	155.58	6762.26	155.76	6762.26	156.2	6762.25
156.6	6762.24	156.9	6762.23	157.22	6762.23	157.43	6762.22	158.21	6762.21
158.25	6762.21	158.27	6762.2	158.37	6762.2	159.11	6762.19	159.27	6762.18
159.53	6762.18	159.95	6762.17	160.3	6762.16	160.65	6762.15	165.18	6762.15

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24	.025	34.61	.04	112.36	.05

Bank Sta: Left Right Coeff Contr. Expan.

34.61	112.36	.3	.5

Upstream Embankment side slope = 3 horiz. to 1.0 vertical

Downstream Embankment side slope = 3 horiz. to 1.0 vertical

Maximum allowable submergence for weir flow = .98

Elevation at which weir flow begins = 6762

Energy head used in spillway design =

Spillway height used in design =

Weir crest shape = Broad Crested

Number of Culverts = 2

Culvert Name	Shape	Rise	Span
Culvert #1	Circular	4	
FHWA Chart # 2 - Corrugated Metal Pipe Culvert			
FHWA Scale # 3 - Pipe projecting from fill			
Solution Criteria = Highest U.S. EG			
Culvert Upstrm Dist	Length	Top n	Bottom n
21	120	.024	.013
Depth Blocked	0		
Entrance Loss Coef	.5		
Exit Loss	1		
Upstream Elevation =	6756.5		
Centerline Station =	50		
Downstream Elevation =	6756.01		
Centerline Station =	40		

Culvert Name Shape Rise Span
 Culvert #2 Circular 4
 FHWA Chart # 2 - Corrugated Metal Pipe Culvert
 FHWA Scale # 1 - Headwall
 Solution Criteria = Highest U.S. EG
 Culvert Upstrm Dist Length Top n Bottom n Depth Blocked Entrance Loss Coef Exit Loss Coef
 12 100 .013 .013 0 .5 1
 Upstream Elevation = 6756.5
 Centerline Station = 63.01
 Downstream Elevation = 6756
 Centerline Station = 50.88

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 998.4

INPUT

Description:

Station	Elevation	Data	num=	465	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.65	.47	6763.65	.88	6763.64	1.08	6763.64	1.68	6763.63			
5.22	6763.63	5.82	6763.64	6.15	6763.64	6.61	6763.65	7.4	6763.65			
8.01	6763.63	8.19	6763.63	8.25	6763.62	9.31	6763.62	9.77	6763.61			
10.36	6763.61	10.56	6763.6	11.36	6763.6	11.42	6763.59	11.54	6763.59			
12.15	6763.58	12.47	6763.58	12.94	6763.55	13.12	6763.54	13.52	6763.51			
13.73	6763.5	14.33	6763.45	14.52	6763.44	14.58	6763.44	14.7	6763.43			
15.31	6763.39	15.63	6763.37	16.1	6763.33	16.28	6763.33	16.69	6763.31			
16.89	6763.3	17.49	6763.27	17.52	6763.27	17.68	6763.26	17.74	6763.25			
17.86	6763.24	18.47	6763.17	18.8	6763.11	19.26	6763	19.45	6762.95			
19.85	6762.85	20.05	6762.8	20.66	6762.65	20.84	6762.6	20.9	6762.59			
20.91	6762.59	21.03	6762.55	21.63	6762.34	21.96	6762.27	22.42	6762.06			
22.61	6762.02	23.01	6761.85	23.21	6761.93	23.82	6762.04	24	6762.08			
24.07	6761.99	24.19	6761.77	24.79	6760.6	25.12	6760.04	25.59	6758.87			
25.77	6759.14	26.17	6758.28	26.38	6758.35	26.98	6758.58	27.17	6758.86			
27.23	6758.83	27.35	6758.73	27.96	6759.56	28.28	6759.12	28.75	6759.1			
28.93	6759.09	29.34	6759.08	29.54	6759.07	30.14	6759.04	30.33	6759.04			
30.39	6759.03	30.51	6759.04	31.12	6759.01	31.44	6759.02	31.91	6759.03			
32.09	6759.05	32.5	6759.06	32.7	6759.08	33.31	6759.13	33.41	6759.14			
33.49	6759.14	33.55	6759.15	33.68	6759.16	34.28	6759.24	34.61	6759.28			
35.07	6759.08	35.26	6759.18	35.66	6759.05	35.86	6758.98	36.47	6758.62			
36.65	6758.52	36.71	6758.47	36.84	6758.37	37.44	6757.81	37.77	6757.56			
38.23	6757.15	38.42	6757.06	38.82	6756.72	39.03	6756.75	39.63	6756.49			
39.82	6756.48	39.88	6756.51	40	6756.42	40.61	6756.79	40.93	6756.42			
41.4	6756.51	41.58	6757.3	41.99	6757.54	42.19	6757.73	42.79	6757.62			
42.98	6757.67	43.04	6757.68	43.16	6757.57	43.77	6758.07	44.09	6757.61			
44.56	6757.92	44.74	6757.71	45.15	6757.91	45.35	6758	45.91	6758.28			
45.96	6758.3	46.14	6758.41	46.2	6758.42	46.32	6758.48	46.93	6758.77			
47.26	6758.93	47.72	6759.16	47.91	6759.24	48.31	6759.44	48.51	6759.53			
49.12	6759.77	49.3	6759.84	49.36	6759.86	49.49	6759.86	50.09	6759.83			
50.42	6759.82	50.88	6759.79	51.07	6759.79	51.47	6759.77	51.67	6759.76			
52.28	6759.66	52.46	6759.64	52.53	6759.63	52.65	6759.61	53.26	6759.52			
53.58	6759.47	54.05	6759.4	54.23	6759.37	54.63	6759.31	54.84	6759.31			
55.44	6759.3	55.81	6759.3	56.42	6759.27	56.74	6759.26	57.21	6759.24			
57.39	6759.23	57.8	6759.22	58	6759.21	58.6	6759.18	58.97	6759.18			
59.58	6759.19	59.9	6759.17	60.37	6759.18	60.56	6759.16	61.16	6759.16			
61.77	6759.13	62.01	6759.13	62.14	6759.12	62.74	6759.14	63.07	6759.12			
63.53	6759.12	63.72	6759.11	64.32	6759.11	64.93	6759.1	65.18	6759.1			
65.3	6759.11	65.9	6759.17	66.23	6759.19	66.7	6759.24	66.88	6759.26			
67.28	6759.3	67.49	6759.32	68.09	6759.37	68.28	6759.39	68.34	6759.4			
68.46	6759.41	69.07	6759.46	69.39	6759.5	69.86	6759.54	70.04	6759.56			
70.45	6759.59	70.65	6759.57	71.25	6759.51	71.44	6759.49	71.5	6759.48			
71.62	6759.46	72.23	6759.37	72.55	6759.33	73.02	6759.26	73.2	6759.24			
73.61	6759.18	73.81	6759.15	74.42	6759.06	74.6	6759.03	74.66	6759.01			
74.79	6759.01	75.39	6758.87	75.72	6758.89	76.18	6758.47	76.37	6758.39			
76.77	6758.04	76.97	6758.05	77.58	6757.93	77.76	6757.91	77.82	6757.9			
77.95	6757.09	78.55	6757.97	78.88	6757.93	79.34	6757.95	79.53	6757.96			
79.93	6757.98	80.13	6757.99	80.74	6758.02	80.93	6758.03	80.99	6758.03			
81.11	6758	81.72	6757.83	82.04	6757.74	82.51	6757.62	82.69	6757.57			

83.1	6757.45	83.3	6757.4	83.9	6757.33	84.09	6757.3	84.15	6757.3
84.27	6757.28	84.88	6757.21	85.2	6757.17	85.67	6757.11	85.85	6757.09
86.26	6757.04	86.46	6756.95	87.07	6756.82	87.25	6756.77	87.31	6756.77
87.43	6756.76	88.04	6756.72	88.37	6756.7	88.83	6756.68	89.02	6756.67
89.42	6756.64	89.62	6756.63	90.23	6756.59	90.41	6756.57	90.47	6756.57
90.6	6756.58	91.04	6756.53	91.2	6756.51	91.53	6756.53	91.99	6756.56
92.18	6756.55	92.58	6756.57	92.78	6756.58	93.64	6756.58	93.76	6756.59
94.36	6756.6	94.69	6756.61	95.16	6756.62	95.34	6756.63	95.74	6756.64
95.95	6756.66	96.55	6756.7	96.74	6756.72	96.8	6756.73	96.92	6756.73
97.53	6756.77	97.85	6756.77	98.32	6756.85	98.5	6756.79	98.91	6756.83
99.11	6756.85	99.71	6756.92	99.9	6756.95	99.96	6756.95	100.08	6756.98
100.69	6757.09	101.01	6757.18	101.48	6757.36	101.66	6757.43	102.07	6757.59
102.27	6757.65	102.88	6757.81	103.06	6757.86	103.12	6757.87	103.25	6757.88
103.85	6758	104.18	6758.02	104.64	6758.02	104.83	6758.21	105.23	6758.25
105.43	6758.29	106.04	6758.55	106.22	6758.59	106.29	6758.61	106.41	6758.64
106.52	6758.66	107.01	6758.75	107.34	6758.85	107.8	6758.89	107.99	6758.99
108.39	6759.04	108.6	6759.07	109.2	6759.15	109.39	6759.17	109.45	6759.18
109.57	6759.19	110.18	6759.27	110.5	6759.31	110.97	6759.37	111.15	6759.41
111.56	6759.46	111.76	6759.49	112.36	6759.58	112.55	6759.61	112.61	6759.62
112.73	6759.62	113.34	6759.63	113.66	6759.64	114.13	6759.67	114.31	6759.66
114.72	6759.67	114.92	6759.69	115.53	6759.72	115.71	6759.74	115.77	6759.75
115.9	6759.76	116.5	6759.9	116.83	6759.91	117.29	6759.98	117.48	6759.97
117.88	6760.02	118.08	6760.04	118.69	6760.04	118.87	6760.05	119.06	6760.05
119.66	6760.08	119.99	6760.09	120.45	6760.11	120.64	6760.12	121.04	6760.14
121.24	6760.15	121.85	6760.18	122.03	6760.19	122.1	6760.2	122.22	6760.19
122.83	6760.25	123.15	6760.23	123.62	6760.27	123.8	6760.29	124.2	6760.32
124.41	6760.34	125.01	6760.39	125.2	6760.4	125.26	6760.41	125.38	6760.42
125.99	6760.47	126.31	6760.49	126.78	6760.53	126.96	6760.53	127.37	6760.56
127.57	6760.57	128.17	6760.59	128.36	6760.6	128.54	6760.6	129.15	6760.63
129.48	6760.64	129.94	6760.66	130.13	6760.66	130.53	6760.68	130.73	6760.69
131.34	6760.73	131.52	6760.74	131.58	6760.74	131.71	6760.75	132.31	6760.79
132.64	6760.81	132.74	6760.81	133.12	6760.84	133.2	6760.84	133.66	6760.87
133.96	6760.88	134.51	6760.9	134.69	6760.91	134.8	6760.91	135.31	6760.92
135.71	6760.92	135.83	6760.93	136.48	6760.94	136.74	6760.95	137.15	6761.04
137.32	6761.07	137.76	6761.17	138.15	6761.26	138.46	6761.32	138.79	6761.39
138.99	6761.44	139.78	6761.61	139.81	6761.62	139.83	6761.62	139.92	6761.64
140.67	6761.81	140.84	6761.84	141.1	6761.9	141.51	6761.99	141.86	6762.07
142.35	6762.18	142.41	6762.19	142.88	6762.3	143.18	6762.32	143.73	6762.36
143.91	6762.38	149.15	6762.38	149.89	6762.37	150.05	6762.36	150.31	6762.36
150.73	6762.35	151.08	6762.34	151.63	6762.34	152.1	6762.33	152.4	6762.32
152.95	6762.31	153.24	6762.31	153.76	6762.3	154.08	6762.29	154.26	6762.29
154.92	6762.28	155.18	6762.27	155.58	6762.26	155.76	6762.26	156.2	6762.25
156.6	6762.24	156.9	6762.23	157.22	6762.23	157.43	6762.22	158.21	6762.21
158.25	6762.21	158.27	6762.2	158.37	6762.2	159.11	6762.19	159.27	6762.18
159.53	6762.18	159.95	6762.17	160.3	6762.16	160.65	6762.15	165.18	6762.15

Manning's n Values		num=		4			
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	24	.025	34.61	.04	112.36	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	34.61	112.36		60.64	59.41	60.64		.3	.5

LATERAL STRUCTURE

RIVER: Walton Creek
 REACH: lower-split RS: 998.35

INPUT

Description:

Lateral structure position = Right overbank
 Distance from Upstream XS =
 Deck/Roadway Width = 5
 Weir Coefficient = .1
 Weir Flow Reference = Water Surface

Weir Embankment Coordinates		num =		490			
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.02	3.47	6761.09	8.2	6761.14	11.04	6761.15
19.56	6761.2	22.32	6761.25	29.38	6761.24	32.38	6761.28
40.27	6761.21	44.66	6761.25	47.41	6761.25	51.04	6761.29
						53.17	6761.25

56.48	6761.23	57.42	6761.24	64.87	6761.24	69.44	6761.27	73.44	6761.27
77.54	6761.24	82.37	6761.38	87.45	6761.26	92.46	6761.18	98.1	6761.28
103.29	6761.28	107.49	6761.26	109.42	6761.23	112.63	6761.21	113.67	6761.18
117.47	6761.15	119.08	6761.17	123.01	6761.17	124.05	6761.2	128.2	6761.21
132.6	6761.27	133.39	6761.26	142.26	6761.26	146.88	6761.35	150.95	6761.34
156.75	6761.35	162.45	6761.43	165.57	6761.42	167.38	6761.38	169.31	6761.41
171.8	6761.42	174.91	6761.46	178.02	6761.46	181.14	6761.49	186.69	6761.5
191.52	6761.46	192.49	6761.48	199.53	6761.4	202.15	6761.4	207.09	6761.24
212.77	6761.22	217.47	6761.26	221.47	6761.28	223.69	6761.27	227.26	6761.23
233.55	6761.19	238.22	6761.2	242.55	6761.31	247.3	6761.25	248.56	6761.26
252.38	6761.22	253.79	6761.23	257.56	6761.21	259.56	6761.18	262.57	6761.21
264.17	6761.25	267.57	6761.23	269.36	6761.17	272.66	6761.18	277.58	6761.22
280.78	6761.22	282.58	6761.24	283.89	6761.21	287.58	6761.17	292.2	6761.14
297.39	6761.16	307.6	6761.17	309.6	6761.15	315.6	6761.14	317.09	6761.11
324.37	6761.04	327.61	6761.03	331.67	6760.98	336.56	6760.88	338.52	6760.86
342.61	6760.78	346.61	6760.74	347.61	6760.71	352	6760.71	356.61	6760.58
357.61	6760.57	361.04	6760.4	362.62	6760.34	366.62	6760.38	372.45	6760.38
377.56	6760.28	380.62	6760.32	387.47	6760.45	390.62	6760.44	392.89	6760.41
398.01	6760.57	402.62	6760.64	406.19	6760.78	413.3	6761.01	417.12	6761.22
418.1	6761.26	422.64	6761.76	422.91	6761.76	427.71	6761.95	432.51	6761.91
435.65	6761.96	438.02	6761.98	441.15	6761.92	447.42	6761.87	451.6	6761.72
456.83	6761.73	461.32	6761.67	463.1	6761.7	467.08	6761.71	470.68	6761.69
474.68	6761.75	477.73	6761.82	480.69	6761.91	482.47	6761.92	485.39	6762.16
489.27	6762.17	492.2	6762.22	497.7	6762.28	499.96	6762.17	502.7	6762.16
504.7	6762.25	507.73	6762.25	508.71	6762.23	512.59	6762.1	514.53	6762.08
519.71	6762.14	524.17	6762.1	527.71	6762.12	528.71	6762.07	532.71	6762.05
537.58	6761.95	538.81	6761.95	542.73	6761.9	547.72	6761.95	549.5	6761.92
552.72	6761.83	557.72	6761.83	562.72	6761.72	567.48	6761.79	571.61	6761.74
572.81	6761.71	577.8	6761.7	582.53	6761.8	587.74	6761.75	591.74	6761.66
597.1	6761.65	603.58	6761.56	606.81	6761.55	611.67	6761.49	613.61	6761.45
616.99	6761.44	617.75	6761.46	621.11	6761.46	625.75	6761.43	627.75	6761.43
632.76	6761.35	635.95	6761.35	637.9	6761.38	640.71	6761.32	642.77	6761.33
645.86	6761.16	649.55	6760.99	652.47	6760.88	653.08	6760.83	655.77	6760.51
657.77	6760.21	663.39	6759.56	667.77	6759.07	669.95	6759.02	672.68	6759
674.81	6758.88	677.72	6758.68	679.66	6758.65	682.99	6758.65	687.78	6758.48
689.78	6758.52	692.78	6758.55	697.15	6758.63	702.98	6758.88	704.79	6758.92
707.88	6758.93	713.75	6759.12	717.79	6759.38	722.79	6759.58	727.79	6759.56
728.43	6759.58	732.79	6759.84	733.79	6759.87	737.8	6759.88	738.8	6759.93
743.8	6760.13	747.8	6760.32	751.68	6760.45	760.88	6760.78	768.55	6761.02
769.8	6761.07	772.8	6761.15	780.3	6760.75	782.25	6760.66	782.36	6760.72
788.12	6760.32	792.04	6760.3	792.81	6760.32	796.93	6760.49	797.71	6760.46
800.85	6760.59	804.76	6760.7	806.72	6760.77	807.7	6760.78	811.61	6760.87
813.05	6760.85	815.81	6760.95	821.4	6761.11	822.25	6761.11	826.29	6761.22
827.82	6761.21	831.18	6760.78	832.82	6760.79	836.08	6760.58	840.82	6760.45
842.93	6760.47	845.78	6760.53	847.82	6760.67	850.76	6761.12	852.71	6760.99
855.65	6761.03	858.05	6760.99	860.83	6760.9	862.5	6760.88	865.44	6760.7
867.83	6760.69	870.83	6760.52	873.26	6760.45	875.22	6760.32	877.83	6760.35
880.11	6760.26	885.01	6760.42	887.72	6760.36	889.9	6760.36	894.88	6760.3
897.83	6760.14	902.62	6760.23	904.58	6760.21	907.84	6760.36	909.47	6760.28
912.84	6760.21	914.84	6760.31	917.84	6760.32	919.26	6760.26	922.84	6760.26
924.15	6760.22	928.07	6760.25	932.96	6760.24	937.84	6760.28	942.95	6760.3
944.7	6760.32	948.06	6760.32	949.85	6760.34	952.53	6760.31	956.85	6760.34
958.4	6760.33	968.19	6760.33	972.1	6760.39	983.5	6760.37	991.86	6760.3
998.18	6760.26	1001.25	6760.18	1002.27	6760.17	1007.33	6760.07	1012.23	6760.12
1018.1	6760.13	1021.71	6760.22	1027.89	6760.21	1031.8	6760.09	1032.87	6760.09
1036.69	6760.22	1039.1	6760.22	1042.87	6760.24	1046.87	6760.17	1047.87	6760.13
1052.87	6760.12	1056.27	6759.93	1060.18	6759.83	1065.88	6759.58	1070.94	6759.43
1072.85	6759.33	1075.92	6759.26	1077.8	6759.32	1080.73	6759.31	1082.69	6759.37
1085.62	6759.33	1088.56	6759.35	1090.52	6759.4	1092.88	6759.37	1095.41	6759.24
1097.88	6759.18	1099.45	6759.17	1102.88	6759.11	1105.2	6759.11	1107.89	6759.28
1110.09	6759.18	1112.89	6759.01	1114.98	6759.01	1116.94	6758.97	1119.9	6758.94
1122.81	6758.86	1124.77	6758.85	1127.89	6758.72	1132.89	6759.05	1134.55	6759.08
1137.89	6758.81	1140.36	6758.87	1142.89	6758.89	1144.34	6758.99	1147.9	6759.41
1149.23	6759.48	1152.63	6759.81	1155.11	6759.95	1158.77	6760.05	1163.88	6760.21
1168.81	6760.31	1171.74	6760.51	1173.7	6760.61	1176.64	6760.57	1178.59	6760.56
1182.9	6760.32	1184.9	6760.03	1185.9	6760.03	1187.91	6760.36	1188.91	6760.38
1192.91	6760.55	1198.17	6760.4	1198.66	6760.29	1199.68	6760.35	1203.06	6760.26
1207.87	6760.46	1209.81	6760.44	1216.91	6760.32	1217.07	6760.34	1220.14	6760.29
1223.21	6760.22	1227.92	6760.23	1231.44	6760.3	1233.44	6760.38	1237.31	6760.39
1241.92	6760.48	1243.18	6760.52	1247.92	6760.77	1252.97	6760.68	1257.99	6760.49
1259.01	6760.44	1267.92	6760.1	1272.93	6760.38	1277.42	6760.29	1280.49	6760.29

1284.58	6760.33	1287.93	6760.32	1289.7	6760.39	1292.76	6760.25	1294.81	6760.31
1297.98	6760.32	1298.9	6760.18	1299.92	6760.12	1301.97	6760.27	1302.99	6760.54
1304.83	6760.49	1307.93	6760.46	1309.94	6759.93	1310.94	6759.91	1311.68	6760.04
1312.94	6760.48	1315.6	6760.23	1318.33	6760.11	1320.49	6760.09	1322.94	6759.9
1323.94	6759.53	1325.39	6759.55	1327.94	6759.75	1330.28	6759.63	1332.94	6759.57
1335.17	6759.57	1338.11	6759.43	1340.06	6759.29	1342.88	6759.4	1344.64	6759.37
1349.3	6758.62	1350.37	6758.49	1351.44	6758.49	1353.57	6758.74	1359.97	6758.9
1363.74	6759.07	1365.3	6759.09	1368.77	6759.1	1371.89	6759.14	1374.9	6759.27
1378.16	6759.33	1383.43	6759.53	1385.56	6759.63	1388.76	6759.39	1389.82	6759.47
1390.89	6759.77	1395.46	6759.66	1396.02	6759.68	1399.13	6759.7	1401.55	6759.51
1404.75	6759.01	1405.82	6758.98	1406.81	6759.05	1407.95	6758.96	1410.8	6758.69
1412.21	6758.61	1414.7	6758.37	1418.53	6758.14	1421.41	6758.07	1423.26	6757.98
1423.73	6757.85	1425.42	6757.56	1426.37	6757.45	1427.11	6757.26	1428.21	6757.17
1430.06	6757.17	1433.31	6757.23	1434.53	6757.2	1438.54	6756.87	1439.96	6756.86
1445.68	6756.68	1447.6	6756.57	1449.79	6756.48	1453.59	6756.36	1456.6	6756.33
1458.52	6756.38	1461.46	6756.28	1466.63	6756	1468.64	6755.92	1472.72	6755.88
1473.65	6755.9	1474.66	6755.62	1475.66	6755.6	1478.67	6755.86	1483.64	6755.23
1488.36	6755.02	1493.72	6754.6	1494.56	6754.55	1498.74	6754.49	1500.03	6754.46
1503.75	6754.61	1505.07	6754.41	1506.58	6754.39	1508.76	6754.71	1509.7	6754.73
1513.79	6754.87	1517.5	6754.56	1518.98	6754.52	1523.82	6754.62	1526.24	6754.34
1527.83	6754.27	1528.84	6754.65	1532.9	6754.67	1538.25	6754.77	1540.32	6754.84
1543.71	6755.02	1548.67	6755.35	1549.91	6755.38	1553.92	6755.52	1554.63	6755.52
1558.94	6755.45	1560.09	6755.36	1563.95	6755.29	1565.55	6755.19	1569.09	6754.91
1571.01	6754.83	1573.98	6754.61	1576.48	6754.65	1579	6754.59	1581.87	6754.69

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #100-yr Lateral Structure

E.G. US. (ft)	6761.23	Weir Sta US (ft)	0.00
W.S. US. (ft)	6761.20	Weir Sta DS (ft)	1581.87
E.G. DS (ft)	6758.15	Min El Weir Flow (ft)	6754.27
W.S. DS (ft)	6757.38	Wr Top Wdth (ft)	999.61
Q US (cfs)	358.53	Weir Max Depth (ft)	5.51
Q Leaving Total (cfs)	-82.30	Weir Avg Depth (ft)	1.24
Q DS (cfs)	360.05	Weir Flow Area (sq ft)	1239.79
Perc Q Leaving	-0.42	Weir Coef (ft ^{1/2})	0.100
Q Weir (cfs)	-82.30	Weir Submerg	0.53
Q Gates (cfs)		Q Gate Group (cfs)	
Q Culv (cfs)		Gate Open Ht (ft)	
Q Lat RC (cfs)		Gate #Open	
Q Outlet TS (cfs)	0.00	Gate Area (sq ft)	
Q Breach (cfs)		Gate Submerg	
Breach Avg Velocity (ft/s)		Gate Invert (ft)	
Breach Flow Area (sq ft)		Gate Weir Coef	
Breach WD (ft)			
Breach Top El (ft)			
Breach Bottom El (ft)			
Breach SSL (ft)			
Breach SSR (ft)			

Warning: The energy equation could not be balanced within the specified number of iterations.
The program used critical

depth for the water surface and continued on with the calculations.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated

water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The

program defaulted to critical depth.

Warning: The split flow optimization for the lateral structure failed to converge within the maximum number of iterations. The

results from the final iteration were used.

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split

RS: 998.3

INPUT

Description:

Station	Elevation	Data	num=	353					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6764.02	.05	6764.02	.48	6764.01	.61	6764.01	1.05	6764
1.47	6764	1.62	6763.99	2.05	6763.99	2.47	6763.98	2.62	6763.98
3.05	6763.97	3.47	6763.96	3.63	6763.96	4.05	6763.95	4.46	6763.93
4.63	6763.92	5.05	6763.91	5.46	6763.89	5.63	6763.88	6.05	6763.86
6.45	6763.84	6.64	6763.84	7.05	6763.82	7.45	6763.8	7.64	6763.79
8.05	6763.77	8.44	6763.75	8.65	6763.75	9.05	6763.73	9.44	6763.71
9.65	6763.71	10.05	6763.7	10.43	6763.69	10.66	6763.68	11.05	6763.67
11.43	6763.66	11.66	6763.66	12.05	6763.65	12.43	6763.64	12.67	6763.63
13.05	6763.62	13.42	6763.61	13.67	6763.61	14.05	6763.6	14.42	6763.59
14.67	6763.59	15.05	6763.58	15.41	6763.57	15.68	6763.57	16.05	6763.56
16.41	6763.56	16.68	6763.55	17.05	6763.55	17.4	6763.54	17.69	6763.54
18.05	6763.53	18.4	6763.52	18.69	6763.52	19.05	6763.51	19.4	6763.52
19.7	6763.5	20.05	6763.51	23.71	6763.51	24.05	6763.5	24.37	6763.49
24.72	6763.49	25.05	6763.47	25.37	6763.46	25.72	6763.45	25.91	6763.44
26.05	6763.44	26.37	6763.43	26.73	6763.42	27.05	6763.41	27.36	6763.4
27.73	6763.39	28.05	6763.38	28.36	6763.38	28.74	6763.36	29.05	6763.35
29.35	6763.17	29.74	6762.86	30.05	6762.67	30.35	6762.45	30.74	6762.17
30.89	6762.06	35.77	6761.52	36.05	6761.29	36.32	6760.66	36.77	6758.31
37.05	6757.67	37.32	6757.66	37.77	6757.62	38.05	6757.61	38.31	6757.59
38.78	6757.56	39.05	6757.54	39.31	6757.5	39.78	6757.38	40.05	6757.34
40.31	6757.29	40.79	6757.19	41.05	6757.13	41.3	6757.08	41.79	6756.98
42.05	6756.92	42.3	6756.87	42.8	6756.77	43.05	6756.71	43.29	6756.66
43.8	6756.56	44.05	6756.5	44.29	6756.41	44.81	6756.23	45.05	6756.14
45.28	6756.09	45.81	6755.95	46.05	6755.91	46.28	6755.95	46.81	6756.05
47.05	6756.1	47.28	6756.14	47.82	6756.25	48.05	6756.29	48.27	6756.32
48.82	6756.44	49.05	6756.47	49.27	6756.54	49.83	6756.71	50.05	6756.78
50.26	6756.85	50.83	6757.02	51.05	6757.09	51.26	6757.15	51.84	6757.33
52.05	6757.39	52.25	6757.45	52.84	6757.63	53.05	6757.7	53.25	6757.76
53.84	6757.94	54.05	6758.01	54.25	6758.03	54.85	6758.19	55.05	6758.21
55.24	6758.25	55.85	6758.39	56.05	6758.44	56.24	6758.48	56.86	6758.62
57.05	6758.66	57.23	6758.7	57.86	6758.85	58.05	6758.89	58.23	6758.93
58.87	6759.07	59.05	6759.11	59.22	6759.12	59.87	6759.11	64.2	6759.11
64.89	6759.13	65.2	6759.13	65.9	6759.15	66.05	6759.16	66.19	6759.16
66.9	6759.18	67.05	6759.18	67.19	6759.19	67.91	6759.21	68.18	6759.21
68.91	6759.23	69.05	6759.24	69.18	6759.24	69.91	6759.18	70.05	6759.18
70.18	6759.17	70.92	6759.13	71.05	6759.12	71.17	6759.11	71.92	6759.06
72.05	6759.06	72.17	6759.05	72.93	6759	73.05	6758.99	73.16	6758.98
73.93	6758.93	74.05	6758.93	74.16	6758.9	74.94	6758.71	75.05	6758.68
75.15	6758.67	75.94	6758.52	76.05	6758.51	76.15	6758.51	76.94	6758.55
77.05	6758.56	77.15	6758.55	77.95	6758.51	78.05	6758.5	78.14	6758.46
78.95	6758.63	79.05	6758.6	79.14	6758.62	79.42	6758.69	79.96	6758.82
80.05	6758.83	80.13	6758.84	80.96	6758.94	81.05	6758.95	81.13	6758.95
81.97	6758.93	82.05	6758.93	82.12	6758.95	82.97	6758.91	83.05	6758.92
83.12	6758.94	83.98	6758.9	84.05	6758.91	84.12	6758.9	84.98	6758.69
85.05	6758.68	85.11	6758.67	85.98	6758.46	86.05	6758.45	86.11	6758.43
86.99	6758.23	87.05	6758.21	87.1	6758.2	87.99	6757.99	88.05	6757.98
88.1	6757.97	89	6757.76	89.05	6757.75	89.09	6757.72	90	6757.6
90.05	6757.58	90.09	6757.57	91.01	6757.43	91.05	6757.43	91.09	6757.42
91.92	6757.3	92.01	6757.28	92.05	6757.28	92.08	6757.27	93.01	6757.13
93.08	6757.13	94.02	6756.98	94.07	6756.98	95.02	6757.15	95.07	6757.15
96.03	6757.32	96.06	6757.32	97.03	6757.49	97.05	6757.49	97.06	6757.5
98.04	6757.66	98.05	6757.67	98.06	6757.67	99.04	6757.84	99.05	6757.84
100.05	6757.92	100.25	6757.94	101.04	6758	101.05	6758	102.04	6758.08
102.05	6758.08	103.03	6758.16	103.06	6758.16	104.03	6758.24	104.06	6758.24
104.42	6758.17	105.03	6758.06	105.05	6758.05	105.07	6758.05	106.02	6757.88
106.05	6757.87	106.07	6757.87	107.02	6757.69	107.05	6757.69	107.08	6757.68
108.01	6757.51	108.05	6757.5	108.08	6757.5	109.01	6757.33	109.05	6757.32
109.08	6757.32	110	6757.28	110.05	6757.27	110.09	6757.27	111	6757.23
111.09	6757.23	112	6757.19	112.05	6757.18	112.1	6757.18	112.99	6757.14
113.05	6757.14	113.1	6757.13	113.99	6757.1	114.05	6757.09	114.11	6757.1
114.98	6757.22	115.05	6757.23	115.11	6757.24	115.98	6757.37	116.05	6757.37
116.12	6757.38	116.97	6757.51	117.05	6757.52	117.12	6757.53	117.97	6757.65
118.05	6757.66	118.12	6757.67	118.97	6757.79	119.05	6757.8	119.13	6757.83
119.96	6758.01	120.05	6758.05	120.13	6758.07	120.5	6758.15	120.96	6758.26

121.05	6758.28	121.14	6758.3	121.95	6758.49	122.05	6758.51	122.14	6758.53
122.95	6758.72	123.05	6758.74	123.15	6758.76	123.94	6758.95	124.05	6758.97
124.15	6758.98	124.94	6759.11	125.16	6759.13	125.93	6759.26	126.05	6759.27
126.16	6759.29	126.93	6759.41	127.05	6759.43	127.17	6759.45	127.92	6759.57
128.05	6759.59	128.17	6759.61	128.91	6759.72	129.05	6759.74	129.18	6759.76
129.91	6759.84	130.05	6759.86	130.18	6759.87	130.9	6759.95	131.05	6759.97
131.19	6760	150.06	6761	168.41	6761				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	25.91	.025	35.77	.04

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	35.77	131.19		145.25	145.76	145.25	.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split RS: 998.2

INPUT

Description:

Station	Elevation	Data	num=	392					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.62	.88	6763.62	1.72	6763.6	1.8	6763.59	1.88	6763.59
2.71	6763.57	2.89	6763.57	3.71	6763.54	3.9	6763.54	4.7	6763.52
4.8	6763.52	4.9	6763.51	5.7	6763.49	5.8	6763.48	5.91	6763.48
6.69	6763.45	6.91	6763.45	7.68	6763.42	7.8	6763.41	7.92	6763.41
8.68	6763.38	8.8	6763.38	8.92	6763.37	9.67	6763.34	9.93	6763.34
10.67	6763.35	10.94	6763.35	11.66	6763.36	11.94	6763.36	12.66	6763.37
12.8	6763.38	12.95	6763.38	13.65	6763.39	13.95	6763.39	14.65	6763.4
14.8	6763.4	14.96	6763.39	15.64	6763.37	15.8	6763.36	15.96	6763.36
16.63	6763.33	16.8	6763.33	16.97	6763.32	17.63	6763.3	17.8	6763.3
17.98	6763.29	18.62	6763.27	18.8	6763.27	18.98	6763.26	19.62	6763.25
19.8	6763.24	19.99	6763.23	20.61	6763.22	20.8	6763.21	20.99	6763.21
21.61	6763.19	21.8	6763.18	22	6763.18	22.6	6763.17	22.8	6763.16
23	6763.16	23.6	6763.14	23.8	6763.14	24.01	6763.13	24.59	6763.12
24.8	6763.12	25.01	6763.11	25.58	6763.09	25.8	6763.08	26.02	6763.08
26.58	6763.06	26.8	6763.05	27.03	6763.05	27.57	6763.03	27.8	6763.02
28.03	6763.02	28.57	6763	28.8	6763	29.03	6762.99	29.04	6762.99
29.56	6762.97	29.8	6762.97	30.04	6762.96	30.56	6762.95	30.8	6762.95
31.05	6762.94	31.55	6762.93	31.8	6762.93	32.55	6762.9	32.8	6762.9
33.06	6762.89	33.54	6762.87	33.61	6762.87	33.8	6762.86	34.07	6762.85
34.53	6762.84	34.8	6762.83	35.07	6762.56	35.53	6762.1	35.8	6761.83
36.08	6761.56	36.52	6761.11	36.8	6760.84	37.08	6760.56	37.52	6760.13
37.8	6759.85	38.09	6759.57	38.51	6759.15	38.8	6758.86	39.09	6758.57
39.51	6758.17	39.8	6757.88	40.1	6757.83	40.5	6757.77	40.8	6757.72
41.11	6757.67	41.5	6757.61	41.8	6757.56	42.11	6757.51	42.49	6757.4
42.8	6757.35	43.12	6757.28	43.48	6757.2	43.8	6757.12	44.12	6757.05
44.48	6756.97	44.8	6756.89	45.13	6756.85	45.47	6756.8	45.8	6756.76
46.13	6756.72	46.47	6756.67	46.8	6756.63	47.14	6756.58	47.46	6756.57
47.8	6756.53	48.15	6756.5	48.46	6756.48	48.8	6756.45	49.15	6756.42
49.45	6756.4	49.8	6756.37	50.16	6756.3	50.44	6756.25	50.8	6756.18
51.16	6756.12	51.44	6756.14	51.8	6756.07	52.17	6756.06	52.43	6756.1
52.8	6756.09	53.17	6756.11	53.43	6756.12	53.8	6756.14	54.18	6756.34
54.42	6756.37	54.8	6756.57	55.19	6756.75	55.42	6756.85	55.8	6757.02
56.19	6757.2	56.41	6757.3	56.8	6757.47	57.2	6757.65	57.41	6757.76
57.8	6757.94	58.2	6758.12	58.4	6758.22	58.8	6758.41	59.21	6758.6
59.39	6758.68	59.8	6758.87	60.8	6758.87	61.22	6758.86	62.23	6758.86
62.38	6758.84	62.8	6758.84	63.23	6758.82	63.37	6758.82	63.8	6758.8
64.24	6758.79	64.37	6758.79	64.8	6758.77	65.24	6758.76	65.36	6758.75
65.8	6758.73	66.25	6758.72	66.36	6758.71	66.8	6758.7	67.25	6758.68
67.35	6758.67	67.8	6758.65	68.26	6758.63	68.34	6758.62	68.8	6758.6
69.26	6758.57	69.34	6758.57	69.8	6758.55	70.27	6758.54	72.28	6758.54
72.32	6758.55	72.8	6758.55	73.29	6758.56	73.32	6758.56	73.8	6758.57
74.29	6758.58	74.31	6758.58	74.8	6758.59	75.3	6758.58	75.31	6758.58
75.8	6758.57	76.3	6758.56	76.8	6758.56	77.29	6758.5	77.31	6758.55
77.8	6758.49	78.29	6758.44	78.32	6758.43	78.8	6758.38	79.28	6758.32
79.32	6758.31	79.8	6758.26	80.18	6758.19	80.28	6758.17	80.33	6758.17
80.8	6758.08	81.27	6758	81.33	6757.99	81.8	6757.9	82.27	6757.8

82.34	6757.81	82.8	6757.7	83.26	6757.59	83.34	6757.58	83.8	6757.47
84.26	6757.36	84.35	6757.34	84.8	6757.24	85.25	6757.09	85.36	6757.05
85.8	6756.91	86.24	6756.76	86.36	6756.73	86.8	6756.58	87.24	6756.44
87.37	6756.4	87.8	6756.26	88.23	6756.12	88.37	6756.1	88.8	6755.96
89.23	6755.79	89.38	6755.79	89.8	6755.63	90.22	6755.49	90.38	6755.25
90.8	6755.11	91.22	6755.01	91.39	6754.97	91.8	6754.87	92.21	6754.78
92.4	6754.76	92.68	6754.69	92.8	6754.67	93.2	6754.57	93.4	6754.62
93.8	6754.53	94.2	6754.47	94.41	6754.48	94.8	6754.43	95.19	6754.48
95.41	6754.38	95.8	6754.43	96.19	6754.49	96.42	6754.46	96.8	6754.52
97.18	6754.58	97.21	6754.59	97.42	6754.62	97.8	6754.69	98.18	6754.75
98.43	6754.79	98.8	6754.85	99.17	6755	99.44	6755.19	99.8	6755.34
99.85	6755.34	100.19	6755.39	100.41	6755.41	100.8	6755.46	101.25	6755.52
101.35	6755.53	101.81	6755.59	102.3	6755.65	102.32	6755.69	102.81	6755.76
103.24	6755.85	103.39	6755.88	103.81	6755.97	104.19	6756.05	104.45	6756.11
104.81	6756.19	105.13	6756.16	105.18	6756.16	105.52	6756.14	105.81	6756.12
106.08	6756.1	106.58	6756.06	106.82	6756.05	107.02	6756.09	107.65	6756
107.82	6756.03	107.97	6756.08	108.71	6756.52	108.82	6756.56	108.91	6756.61
109.78	6757.14	109.82	6757.17	109.86	6757.18	110.14	6757.22	110.78	6757.33
110.82	6757.33	110.86	6757.34	111.76	6757.48	111.82	6757.49	111.89	6757.5
112.73	6757.67	112.82	6757.69	112.92	6757.71	113.71	6757.86	113.82	6757.89
113.94	6757.91	114.68	6758.06	114.82	6758.08	114.97	6758.11	114.98	6758.11
115.67	6758.24	115.82	6758.27	115.98	6758.3	116.66	6758.43	116.82	6758.46
116.98	6758.49	117.66	6758.6	117.82	6758.63	117.99	6758.66	118.65	6758.77
118.82	6758.8	119	6758.83	119.65	6758.94	119.82	6758.97	120	6758.99
120.64	6759.06	120.82	6759.08	121.01	6759.1	121.63	6759.17	121.82	6759.19
122.01	6759.21	122.63	6759.28	122.82	6759.3	123.02	6759.32	123.62	6759.37
123.82	6759.39	124.03	6759.41	124.62	6759.46	124.82	6759.48	125.03	6759.49
125.61	6759.52	125.82	6759.53	126.04	6759.54	126.6	6759.57	126.82	6759.58
127.05	6759.59	127.6	6759.63	127.82	6759.64	128.05	6759.65	128.59	6759.69
128.82	6759.7	129.06	6759.72	129.59	6759.75	129.82	6759.76	130.06	6759.78
130.58	6759.82	130.82	6759.84	131.07	6759.86	131.57	6759.89	131.82	6759.91
132.08	6759.93	132.57	6759.95	132.82	6759.97	133.08	6759.98	133.56	6760
154.56	6761	174.15	6761.34						

Manning's n Values num= 2

Sta	n Val	Sta	n Val
0	.016	34.8	.04

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	37.52	133.56		164.57 165.08	164.57	.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 998

INPUT

Description:

Station	Elevation	Data	num=	414					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6763.15	.6	6763.15	.6	6763.1	.94	6763.1	1.19	6763.11
1.7	6763.12	2.94	6763.12	3.19	6763.11	3.7	6763.09	3.94	6763.09
4.19	6763.07	4.7	6763.04	4.94	6763.03	5.19	6763.01	5.7	6763
5.94	6762.99	6.7	6762.99	6.94	6763	7.19	6763	7.7	6763.01
8.19	6763.01	8.7	6763.02	9.18	6763.02	9.7	6763.03	11.18	6763.03
11.7	6763.01	11.94	6763	12.18	6762.99	12.7	6762.98	12.94	6762.97
13.18	6762.96	13.7	6762.95	13.94	6762.94	14.18	6762.93	14.7	6762.91
14.94	6762.91	15.18	6762.9	15.7	6762.89	15.94	6762.88	16.18	6762.88
16.7	6762.87	17.94	6762.87	18.18	6762.86	19.94	6762.86	20.18	6762.85
20.94	6762.85	21.18	6762.84	21.7	6762.83	21.94	6762.83	22.18	6762.82
22.7	6762.81	22.94	6762.8	23.18	6762.8	23.7	6762.78	23.94	6762.78
24.18	6762.77	24.7	6762.76	24.94	6762.75	25.18	6762.75	25.7	6762.73
26.18	6762.73	26.7	6762.72	27.18	6762.72	27.7	6762.71	28.7	6762.71
28.94	6762.7	29.94	6762.7	30.18	6762.69	30.7	6762.68	30.94	6762.68
31.18	6762.67	31.7	6762.65	31.94	6762.65	32.18	6762.64	32.7	6762.62
32.94	6762.61	33.18	6762.6	33.7	6762.58	33.94	6762.58	34.18	6762.57
34.7	6762.55	34.94	6762.54	35.18	6762.53	35.71	6762.52	35.94	6762.51
36.18	6762.39	36.71	6762.14	36.94	6762.03	37.18	6761.92	37.71	6761.67
37.94	6761.55	38.18	6761.44	38.71	6761.19	38.94	6761.08	39.18	6760.96
39.71	6760.72	39.94	6760.6	40.18	6760.49	40.71	6760.28	40.94	6760.17

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 997.8

INPUT

Description:

Station	Elevation	Data	num=	460	Station	Elevation	Station	Elevation	Station	Elevation
0	6762.71	.08	6762.71	.68	6762.69	.89	6762.69	1.09	6762.68	
1.67	6762.66	1.89	6762.66	2.1	6762.65	2.67	6762.63	2.89	6762.63	
3.11	6762.62	3.66	6762.6	3.89	6762.6	4.12	6762.59	4.65	6762.57	
4.89	6762.57	5.13	6762.56	5.64	6762.55	5.89	6762.55	6.13	6762.54	
6.63	6762.53	6.89	6762.53	7.14	6762.52	7.62	6762.51	7.89	6762.5	
8.15	6762.5	8.62	6762.49	8.89	6762.48	9.61	6762.48	9.89	6762.47	
10.17	6762.47	10.6	6762.44	10.89	6762.44	11.18	6762.43	11.59	6762.42	
11.89	6762.41	12.19	6762.4	12.58	6762.4	12.89	6762.39	13.19	6762.38	
13.57	6762.37	13.89	6762.36	14.2	6762.35	14.57	6762.35	14.89	6762.34	
15.56	6762.34	15.89	6762.35	16.22	6762.35	16.55	6762.36	17.23	6762.36	
17.54	6762.37	17.89	6762.37	18.24	6762.38	18.53	6762.38	18.89	6762.39	
19.52	6762.39	19.89	6762.4	20.25	6762.38	20.52	6762.37	20.89	6762.35	
21.26	6762.33	21.51	6762.32	21.89	6762.3	22.27	6762.27	22.5	6762.26	
22.89	6762.24	23.28	6762.22	23.49	6762.21	23.89	6762.19	24.29	6762.17	
24.48	6762.15	24.89	6762.13	25.3	6762.13	25.47	6762.07	25.89	6762.07	
26.31	6762.06	27.46	6762.06	27.89	6762.05	28.89	6762.05	29.33	6762.04	
29.44	6762.08	29.89	6762.07	30.34	6761.63	30.43	6761.84	30.55	6761.72	
30.89	6761.39	31.35	6760.94	31.42	6760.87	32.36	6759.95	32.41	6759.9	
32.89	6759.44	33.37	6758.97	33.41	6758.93	33.89	6758.46	34.37	6757.98	
34.4	6757.7	34.89	6757.22	35.38	6757.08	35.39	6756.94	35.89	6756.8	
36.38	6756.52	36.39	6756.65	36.89	6756.37	37.37	6756.19	37.4	6756.23	
37.89	6756.05	38.36	6755.93	38.41	6755.9	38.89	6755.78	39.36	6755.7	
39.42	6755.63	39.89	6755.55	40.35	6755.46	40.43	6755.45	40.89	6755.36	
41.34	6755.27	41.44	6755.25	41.89	6755.17	42.33	6755.09	42.44	6755.06	
42.89	6754.98	43.05	6754.95	43.32	6754.91	43.45	6754.87	43.89	6754.8	
44.31	6754.73	44.46	6754.69	44.89	6754.62	45.31	6754.57	45.47	6754.57	
45.89	6754.52	46.3	6754.49	46.48	6754.48	46.89	6754.44	47.29	6754.86	
47.49	6754.39	47.89	6754.81	48.28	6755.19	48.5	6755.37	48.89	6755.75	
49.27	6756.06	49.5	6756.69	49.89	6757	50.26	6757.06	50.51	6757.05	
50.89	6757.1	51.26	6757.13	51.52	6757.15	51.89	6757.18	52.25	6757.2	
52.53	6757.23	52.89	6757.25	53.24	6757.28	53.54	6757.3	53.89	6757.33	
54.23	6757.35	54.55	6757.38	54.89	6757.4	55.22	6757.38	55.55	6757.4	
55.56	6757.4	55.89	6757.37	56.89	6757.37	57.25	6757.36	58.5	6757.36	
58.89	6757.35	59.89	6757.35	60.3	6757.33	60.47	6757.34	60.89	6757.33	
61.32	6757.32	61.89	6757.32	62.34	6757.31	62.89	6757.31	63.35	6757.3	
63.89	6757.3	64.37	6757.29	64.89	6757.29	65.39	6757.28	65.39	6757.22	
65.89	6757.21	66.37	6757.21	66.41	6757.14	66.89	6757.14	67.35	6757.13	
67.43	6757.1	67.89	6757.1	68.34	6757.09	68.44	6757.09	68.89	6757.08	
69.46	6757.08	69.89	6757.07	70.3	6757.02	70.48	6757	70.89	6756.96	
71.29	6756.91	71.5	6756.89	71.89	6756.84	72.27	6756.79	72.51	6756.79	
72.89	6756.75	73.25	6756.71	73.53	6756.76	73.89	6756.72	74.24	6756.68	
74.55	6756.73	74.89	6756.69	75.22	6756.67	75.57	6756.65	75.89	6756.63	
76.2	6756.61	76.58	6756.59	76.89	6756.57	77.19	6756.55	77.6	6756.53	
77.89	6756.51	78.17	6756.49	78.62	6756.47	78.89	6756.45	79.15	6756.43	
79.64	6756.46	79.89	6756.44	80.14	6756.38	80.66	6756.32	80.89	6756.26	
81.12	6756.2	81.67	6756.05	81.89	6755.99	82.1	6755.94	82.69	6755.78	
82.89	6755.73	83.08	6755.68	83.71	6755.52	83.89	6755.47	84.07	6755.42	
84.73	6755.25	84.89	6755.2	85.05	6755.11	85.74	6754.51	85.89	6754.42	
86.03	6754.37	86.76	6754.32	86.89	6754.27	87.02	6754.3	87.78	6754.45	
87.89	6754.47	88	6754.49	88.8	6754.65	88.89	6754.67	88.98	6754.69	
89.82	6754.86	89.89	6754.87	89.97	6754.87	90.83	6754.82	90.89	6754.81	
90.95	6754.81	91.85	6754.74	91.93	6754.74	92.87	6754.67	92.92	6754.67	
93.89	6754.59	94.29	6754.56	94.88	6754.52	94.9	6754.52	95.87	6754.25	
95.89	6754.24	95.92	6754.23	96.85	6754.05	96.89	6754.04	96.94	6754.04	
97.83	6753.98	97.96	6753.98	98.82	6754.04	98.89	6754.05	98.97	6754.06	
99.8	6754.33	99.89	6754.34	99.99	6754.35	100.78	6754.28	100.89	6754.3	
101.01	6754.33	101.77	6754.56	101.89	6754.6	102.03	6754.64	102.75	6754.86	
102.89	6754.9	103.05	6754.95	103.73	6755.16	103.89	6755.21	104.06	6755.26	
104.71	6755.46	104.89	6755.52	105.08	6755.54	105.7	6755.6	105.89	6755.63	
106.1	6755.65	106.68	6755.77	106.89	6755.79	107.12	6755.83	107.66	6755.93	
107.9	6755.98	108.13	6756.02	108.65	6756.11	108.9	6756.16	109.15	6756.2	

Station Elevation Data				num= 415							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev		
0	6761.85	.01	6761.85	.82	6761.82	.93	6761.82	1.04	6761.83		
1.78	6761.93	1.93	6761.95	2.08	6761.94	2.75	6761.93	2.93	6761.92		
3.12	6761.92	3.72	6761.9	3.93	6761.9	4.16	6761.89	4.68	6761.88		
4.93	6761.88	5.19	6761.87	5.65	6761.86	5.93	6761.85	6.23	6761.85		
6.61	6761.84	6.93	6761.83	7.27	6761.83	7.58	6761.82	8.31	6761.82		
8.56	6761.81	9.35	6761.81	9.52	6761.8	10.49	6761.8	10.94	6761.79		
11.94	6761.79	12.42	6761.77	12.46	6761.76	12.94	6761.74	13.39	6761.72		
13.5	6761.72	13.94	6761.69	14.36	6761.67	14.54	6761.67	14.94	6761.65		
15.32	6761.64	15.58	6761.63	15.95	6761.62	16.29	6761.61	16.61	6761.6		
16.95	6761.59	17.26	6761.59	17.65	6761.58	18.69	6761.58	18.95	6761.57		
19.19	6761.57	19.72	6761.55	19.95	6761.55	20.16	6761.54	20.76	6761.52		
20.95	6761.52	21.12	6761.51	21.8	6761.49	21.95	6761.49	22.09	6761.48		
22.84	6761.43	22.95	6761.42	23.06	6761.41	23.88	6761.35	23.96	6761.35		
24.03	6761.34	24.92	6761.28	24.96	6761.28	25	6761.27	25.51	6761.23		
25.53	6761.23	25.96	6761.2	26.06	6761.2	26.93	6761.13	27	6761.13		
27.9	6761.06	27.96	6761.06	28.03	6761.05	28.86	6761	28.96	6760.99		
29.07	6760.98	29.83	6760.93	29.96	6760.92	30.11	6760.91	30.8	6760.86		
30.96	6760.85	31.14	6760.83	31.76	6760.79	31.97	6760.78	32.18	6760.77		
32.73	6760.74	32.97	6760.73	33.22	6760.72	33.7	6760.7	33.97	6760.68		
34.26	6760.67	34.53	6760.65	34.66	6760.64	34.97	6760.62	35.29	6760.6		
35.63	6760.58	35.97	6760.56	36.33	6760.54	36.6	6760.52	36.97	6760.5		
37.37	6760.44	37.56	6760.41	37.97	6760.36	38.4	6760.3	38.53	6760.28		

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.85	.01	6761.85	.82	6761.82	.93	6761.82	1.04	6761.83
1.78	6761.93	1.93	6761.95	2.08	6761.94	2.75	6761.93	2.93	6761.92
3.12	6761.92	3.72	6761.9	3.93	6761.9	4.16	6761.89	4.68	6761.88
4.93	6761.88	5.19	6761.87	5.65	6761.86	5.93	6761.85	6.23	6761.85
6.61	6761.84	6.93	6761.83	7.27	6761.83	7.58	6761.82	8.31	6761.82
8.56	6761.81	9.35	6761.81	9.52	6761.8	10.49	6761.8	10.94	6761.79
11.94	6761.79	12.42	6761.77	12.46	6761.76	12.94	6761.74	13.39	6761.72
13.5	6761.72	13.94	6761.69	14.36	6761.67	14.54	6761.67	14.94	6761.65
15.32	6761.64	15.58	6761.63	15.95	6761.62	16.29	6761.61	16.61	6761.6
16.95	6761.59	17.26	6761.59	17.65	6761.58	18.69	6761.58	18.95	6761.57
19.19	6761.57	19.72	6761.55	19.95	6761.55	20.16	6761.54	20.76	6761.52
20.95	6761.52	21.12	6761.51	21.8	6761.49	21.95	6761.49	22.09	6761.48
22.84	6761.43	22.95	6761.42	23.06	6761.41	23.88	6761.35	23.96	6761.35
24.03	6761.34	24.92	6761.28	24.96	6761.28	25	6761.27	25.51	6761.23
25.53	6761.23	25.96	6761.2	26.06	6761.2	26.93	6761.13	27	6761.13
27.9	6761.06	27.96	6761.06	28.03	6761.05	28.86	6761	28.96	6760.99
29.07	6760.98	29.83	6760.93	29.96	6760.92	30.11	6760.91	30.8	6760.86
30.96	6760.85	31.14	6760.83	31.76	6760.79	31.97	6760.78	32.18	6760.77
32.73	6760.74	32.97	6760.73	33.22	6760.72	33.7	6760.7	33.97	6760.68
34.26	6760.67	34.53	6760.65	34.66	6760.64	34.97	6760.62	35.29	6760.6
35.63	6760.58	35.97	6760.56	36.33	6760.54	36.6	6760.52	36.97	6760.5
37.37	6760.44	37.56	6760.41	37.97	6760.36	38.4	6760.3	38.53	6760.28
38.97	6760.22	39.45	6760.15	39.51	6760.15	39.95	6760.08	39.98	6760.08
40	6760.08	40.03	6760.08	40.47	6760.04	40.49	6760.01	40.98	6759.97
41.44	6759.94	41.53	6759.92	41.98	6759.89	42.41	6759.72	42.56	6759.63
42.98	6759.46	43.37	6759.26	43.6	6759.15	43.98	6758.95	44.34	6758.78
44.64	6758.62	44.98	6758.45	45.31	6758.4	45.68	6758.1	45.98	6758.05
46.27	6758	46.71	6757.92	46.98	6757.87	47.04	6757.82	47.24	6757.65
47.75	6757.2	47.99	6757	48.2	6756.81	48.79	6756.48	48.99	6756.31
49.17	6756.19	49.82	6755.78	49.99	6755.67	50.14	6755.58	50.86	6755.12
50.99	6755.04	51.1	6754.96	51.9	6754.46	51.99	6754.4	52.07	6754.36
52.94	6754.07	52.99	6754.04	53.04	6754.03	53.83	6754.01	53.97	6754.01

53.99	6754	54	6754	54.42	6753.99	54.98	6753.98	55.02	6753.98
55.95	6753.95	56.06	6753.95	56.23	6754.07	56.93	6754.55	57	6754.55
57.07	6754.6	57.93	6754.97	58	6755.02	58.07	6755.08	58.93	6755.7
59	6755.76	59.08	6755.81	59.55	6756.16	59.62	6756.21	59.92	6756.43
60	6756.49	60.09	6756.55	60.89	6757.14	61	6757.22	61.11	6757.3
61.87	6757.85	62	6757.94	62.14	6758	62.85	6758.23	63	6758.29
63.16	6758.36	63.83	6758.65	64	6758.73	64.18	6758.81	64.81	6759.08
65	6759.17	65.2	6759.26	65.79	6759.51	66	6759.61	66.23	6759.7
66.24	6759.7	66.76	6759.82	66.96	6759.91	67	6759.93	67.25	6759.95
67.74	6759.95	68	6759.97	68.27	6759.99	68.72	6760.03	69	6760.05
69.3	6760.07	69.7	6760.1	70	6760.12	70.32	6760.15	70.69	6760.17
71.01	6760.2	71.35	6760.22	71.67	6760.25	72.01	6760.27	73.01	6760.27
73.4	6760.26	77.01	6760.26	77.49	6760.39	77.54	6760.28	78.02	6760.41
78.51	6760.54	79.02	6760.68	79.49	6760.8	79.54	6760.82	80.02	6760.94
80.47	6761.07	80.56	6761.09	81.02	6761.21	81.45	6761.33	81.58	6761.36
82.02	6761.48	82.43	6761.5	82.61	6761.43	83.02	6761.46	83.41	6761.42
83.63	6761.41	84.02	6761.37	84.39	6761.34	84.65	6761.32	85.02	6761.29
85.36	6761.26	85.68	6761.24	86.02	6761.21	86.34	6761.18	86.71	6761.15
87.03	6761.13	87.33	6761.1	87.73	6761.04	88.03	6761.02	88.31	6760.98
88.76	6760.93	89.03	6760.89	89.29	6760.86	89.78	6760.8	90.03	6760.77
90.27	6760.74	90.8	6760.67	91.03	6760.64	91.24	6760.61	91.83	6760.54
92.03	6760.52	92.22	6760.51	92.85	6760.46	93.03	6760.46	93.2	6760.45
93.87	6760.4	94.03	6760.39	94.18	6760.38	94.9	6760.34	95.03	6760.33
95.16	6760.32	95.92	6760.27	96.03	6760.27	96.14	6760.26	96.94	6760.21
97.03	6760.2	97.11	6760.2	97.96	6760.19	98.03	6760.18	98.09	6760.18
98.99	6760.17	99.07	6760.17	100.01	6760.16	100.05	6760.16	100.89	6760.14
101.03	6760.14	102.01	6760.13	102.07	6760.13	102.99	6760.12	103.09	6760.12
103.97	6760.11	104.11	6760.11	104.95	6760.1	105.14	6760.1	105.93	6760.09
106.04	6760.09	106.16	6760.08	106.91	6760.08	107.04	6760.07	107.18	6760.07
107.89	6760	108.04	6760	108.21	6759.98	108.86	6759.93	109.04	6759.91
109.23	6759.9	109.84	6759.84	110.04	6759.82	110.25	6759.81	110.82	6759.76
111.04	6759.74	111.28	6759.72	111.8	6759.67	112.04	6759.65	112.3	6759.66
112.78	6759.67	113.04	6759.67	113.32	6759.68	113.76	6759.68	114.04	6759.69
114.34	6759.7	114.74	6759.7	115.04	6759.71	115.37	6759.72	115.71	6759.72
116.04	6759.73	116.39	6759.73	116.69	6759.74	117.41	6759.74	117.67	6759.73
118.06	6759.73	118.45	6759.72	119.06	6759.72	119.47	6759.71	119.64	6759.71
120.06	6759.7	120.62	6759.7	121.06	6759.69	121.52	6759.67	121.59	6759.68
122.06	6759.66	122.54	6759.65	122.57	6759.65	123.06	6759.64	123.55	6759.63
123.56	6759.63	124.06	6759.62	124.53	6759.61	124.59	6759.6	125.06	6759.59
125.51	6759.58	125.61	6759.58	126.06	6759.57	126.49	6759.56	126.63	6759.56
127.06	6759.55	127.46	6759.56	127.66	6759.56	128.06	6759.57	128.44	6759.58
128.68	6759.59	129.06	6759.6	129.42	6759.6	129.7	6759.61	130.06	6759.62
130.4	6759.63	130.72	6759.63	131.06	6759.64	131.38	6759.65	131.75	6759.67
132.06	6759.68	132.36	6759.68	132.77	6759.67	133.33	6759.67	133.8	6759.66
134.83	6759.66	135.07	6759.65	135.85	6759.65	136.07	6759.64	136.28	6759.64
136.87	6759.63	137.9	6759.63	138.07	6759.64	138.24	6759.64	138.92	6759.65
139.21	6759.65	139.94	6759.66	140.19	6759.66	140.97	6759.67	141.17	6759.67
141.99	6759.68	142.15	6759.68	143.01	6759.72	143.13	6759.72	144.03	6759.76
144.11	6759.76	145.06	6759.81	145.09	6759.81	145.68	6759.83	146.06	6759.85
146.08	6759.85	147.04	6759.9	147.07	6759.91	147.1	6759.91	148.02	6759.92
149.07	6759.92	149.16	6759.93	150.18	6759.93	150.97	6759.94	153.67	6759.94

Manning's n Values				num=	4				
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val		
0	.016	25.51	.025	40	.035	66.96	.016		

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	39.95	66.96		.3	.5

Downstream Deck/Roadway Coordinates									
num= 69									
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-5.34	6761.79		0		-5.22	6761.76		0	
-5.04	6761.77		0		-.28	6761.72		0	
4.74	6761.82		0		4.96	6761.83		0	
9.96	6761.61		0		14.78	6761.54		0	
19.81	6761.49		0		19.96	6761.49		0	
24.96	6761.27		0		29.85	6761.21		0	
30.06	6761.21		0		34.96	6761.03		0	
39.96	6760.85		0		44.91	6760.49		0	
49.93	6760.55		0		49.96	6760.55		0	
					54.96	6760.33		0	

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.83	.33	6761.83	.68	6761.82	.98	6761.81	1.33	6761.8
1.69	6761.79	1.97	6761.78	2.33	6761.78	2.7	6761.77	2.96	6761.77
3.33	6761.76	3.71	6761.75	3.95	6761.75	4.33	6761.74	6.33	6761.74
6.74	6761.73	6.92	6761.74	7.33	6761.73	7.75	6761.71	7.91	6761.71
8.33	6761.69	8.76	6761.68	8.9	6761.68	9.34	6761.66	9.78	6761.65
9.9	6761.65	10.34	6761.63	10.79	6761.62	10.89	6761.62	11.34	6761.61
11.8	6761.6	11.88	6761.59	14.34	6761.59	14.83	6761.56	14.85	6761.56
15.34	6761.54	15.84	6761.51	16.34	6761.49	16.83	6761.46	16.85	6761.45
17.34	6761.43	17.82	6761.39	17.86	6761.39	18.34	6761.36	18.81	6761.33
18.87	6761.32	19.34	6761.28	19.8	6761.26	19.88	6761.25	20.34	6761.23
20.79	6761.2	20.89	6761.2	21.34	6761.17	21.78	6761.15	21.9	6761.14
22.34	6761.11	22.78	6761.08	22.91	6761.07	23.34	6761.04	23.77	6761.01
23.92	6761	24.34	6760.97	29.35	6760.84	29.72	6760.78	29.99	6760.72
30.35	6760.66	30.71	6760.59	31	6760.54	31.35	6760.47	31.7	6760.41
32.01	6760.34	32.35	6760.27	32.69	6760.2	33.02	6760.13	33.35	6760.07
33.66	6760	33.68	6760	34.03	6759.93	34.35	6759.86	34.67	6759.76
35.04	6759.65	35.35	6759.55	35.66	6759.46	36.05	6759.34	36.35	6759.25
36.65	6759.15	37.06	6759.03	37.35	6758.94	37.64	6758.84	38.07	6758.7
38.35	6758.61	38.63	6758.52	39.08	6758.37	39.35	6758.28	39.62	6758.18
40.09	6758	40.35	6757.9	40.61	6757.8	41.1	6757.61	41.35	6757.51
41.6	6757.41	42.11	6757.23	42.35	6757.14	42.59	6757.05	43.12	6756.86
43.35	6756.77	43.58	6756.69	43.72	6756.64	44.13	6756.49	44.35	6756.41
44.57	6756.31	45.14	6756.06	45.35	6755.97	45.56	6755.88	46.16	6755.63
46.36	6755.54	46.56	6755.46	47.17	6755.16	47.36	6755.08	47.55	6754.99
48.18	6754.7	48.36	6754.62	48.54	6754.53	49.19	6754.23	49.36	6754.15
49.53	6754.08	50.2	6753.82	50.36	6753.76	50.52	6753.7	51.21	6753.57
51.36	6753.52	51.51	6753.5	52.22	6753.3	52.36	6753.28	52.5	6753.25
53.23	6753.05	53.36	6753.02	53.49	6753	54.24	6752.88	54.36	6752.86
54.48	6752.88	55.25	6753.06	55.36	6753.08	55.47	6753.1	55.69	6753.15
56.23	6753.27	56.26	6753.28	56.36	6753.3	56.46	6753.32	57.27	6753.65
57.36	6753.67	57.45	6753.72	58.29	6754.02	58.36	6754.07	58.44	6754.14
59.3	6754.85	59.36	6754.91	59.43	6754.96	60.31	6755.6	60.36	6755.64
60.42	6755.88	61.32	6756.33	61.36	6756.37	61.41	6756.4	62.33	6757.05
62.36	6757.07	62.4	6757.1	63.34	6757.76	63.36	6757.78	63.39	6757.8
63.59	6757.94	64.35	6758.47	64.36	6758.49	64.38	6758.49	65.37	6758.82
65.37	6758.83	65.38	6758.83	66.1	6759.07	66.37	6759.17	67.36	6759.52
67.37									

105.01	6760.05	105.4	6760.06	105.79	6760.07	106	6760.08	106.4	6760.09
106.8	6760.1	106.99	6760.11	107.4	6760.12	107.81	6760.13	107.98	6760.13
108.4	6760.14	108.82	6760.15	108.97	6760.15	109.4	6760.16	109.96	6760.16
110.4	6760.17	110.84	6760.16	110.95	6760.17	111.4	6760.17	111.85	6760.16
111.94	6760.16	112.4	6760.15	112.93	6760.15	113.4	6760.14	113.87	6760.13
118.4	6760.13	118.87	6760.14	119.4	6760.14	119.87	6760.15	119.95	6760.15
120.41	6760.16	120.86	6760.17	120.96	6760.18	121.41	6760.19	121.85	6760.21
121.97	6760.22	122.41	6760.23	122.84	6760.25	122.98	6760.25	123.38	6760.27
123.41	6760.27	123.82	6760.29	123.99	6760.29	124.41	6760.31	124.8	6760.31
125.02	6760.32	125.41	6760.32	125.78	6760.33	126.04	6760.34	126.41	6760.35
126.76	6760.36	127.06	6760.37	127.41	6760.38	127.74	6760.39	128.09	6760.4
128.41	6760.4	128.72	6760.41	129.11	6760.42	129.41	6760.43	129.69	6760.43
130.13	6760.44	133.2	6760.44	133.41	6760.43	134.59	6760.43	135.25	6760.42
135.41	6760.42	135.57	6760.41	136.27	6760.4	136.54	6760.4	137.29	6760.39
137.52	6760.39	138.32	6760.37	138.51	6760.37	139.35	6760.36	140.47	6760.36
141.39	6760.35	142.42	6760.35	142.63	6760.34	144.38	6760.34	144.42	6760.33
144.46	6760.34	145.36	6760.35	145.42	6760.36	145.49	6760.36	146.34	6760.37
146.51	6760.37	147.32	6760.39	147.53	6760.39	148.3	6760.4	148.42	6760.41
148.55	6760.41	149.28	6760.42	149.31	6760.42				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	33.66	.04	68.7	.016

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	33.66	68.7	.3	.5

Upstream Embankment side slope = 3 horiz. to 1.0 vertical
Downstream Embankment side slope = 3 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Culverts = 1

Culvert Name	Shape	Rise	Span
Culvert #1	Circular	6	
FHWA Chart # 2 - Corrugated Metal Pipe Culvert			
FHWA Scale # 2 - Mitered to conform to slope			
Solution Criteria = Highest U.S. EG			
Culvert Upstrm Dist	Length	Top n	Bottom n
Coef			
	3.35	60	.024
			.024
			0
			.5
			1

Upstream Elevation = 6753.81
Centerline Station = 53.93
Downstream Elevation = 6752.73
Centerline Station = 55.78

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 996

INPUT

Description:

Station	Elevation	Data	num=	358
Sta	Elev	Sta	Elev	Sta
0	6761.83	.33	6761.83	.68
1.69	6761.79	1.97	6761.78	2.33
3.33	6761.76	3.71	6761.75	3.95
6.74	6761.73	6.92	6761.74	7.33
8.33	6761.69	8.76	6761.68	8.9
9.9	6761.65	10.34	6761.63	10.79
11.8	6761.6	11.88	6761.59	14.34
15.34	6761.54	15.84	6761.51	16.34
17.34	6761.43	17.82	6761.39	17.86
18.87	6761.32	19.34	6761.28	19.8
20.79	6761.2	20.89	6761.2	21.34

22.34	6761.11	22.78	6761.08	22.91	6761.07	23.34	6761.04	23.77	6761.01
23.92	6761	24.34	6760.97	29.35	6760.84	29.72	6760.78	29.99	6760.72
30.35	6760.66	30.71	6760.59	31	6760.54	31.35	6760.47	31.7	6760.41
32.01	6760.34	32.35	6760.27	32.69	6760.2	33.02	6760.13	33.35	6760.07
33.66	6760	33.68	6760	34.03	6759.93	34.35	6759.86	34.67	6759.76
35.04	6759.65	35.35	6759.55	35.66	6759.46	36.05	6759.34	36.35	6759.25
36.65	6759.15	37.06	6759.03	37.35	6758.94	37.64	6758.84	38.07	6758.7
38.35	6758.61	38.63	6758.52	39.08	6758.37	39.35	6758.28	39.62	6758.18
40.09	6758	40.35	6757.9	40.61	6757.8	41.1	6757.61	41.35	6757.51
41.6	6757.41	42.11	6757.23	42.35	6757.14	42.59	6757.05	43.12	6756.86
43.35	6756.77	43.58	6756.69	43.72	6756.64	44.13	6756.49	44.35	6756.41
44.57	6756.31	45.14	6756.06	45.35	6755.97	45.56	6755.88	46.16	6755.63
46.36	6755.54	46.56	6755.46	47.17	6755.16	47.36	6755.08	47.55	6754.99
48.18	6754.7	48.36	6754.62	48.54	6754.53	49.19	6754.23	49.36	6754.15
49.53	6754.08	50.2	6753.82	50.36	6753.76	50.52	6753.7	51.21	6753.57
51.36	6753.52	51.51	6753.5	52.22	6753.3	52.36	6753.28	52.5	6753.25
53.23	6753.05	53.36	6753.02	53.49	6753	54.24	6752.88	54.36	6752.86
54.48	6752.88	55.25	6753.06	55.36	6753.08	55.47	6753.1	55.69	6753.15
56.23	6753.27	56.26	6753.28	56.36	6753.3	56.46	6753.32	57.27	6753.65
57.36	6753.67	57.45	6753.72	58.29	6754.02	58.36	6754.07	58.44	6754.14
59.3	6754.85	59.36	6754.91	59.43	6754.96	60.31	6755.6	60.36	6755.64
60.42	6755.68	61.32	6756.33	61.36	6756.37	61.41	6756.4	62.33	6757.05
62.36	6757.07	62.4	6757.1	63.34	6757.76	63.36	6757.78	63.39	6757.8
63.59	6757.94	64.35	6758.47	64.36	6758.49	64.38	6758.49	65.37	6758.82
65.37	6758.83	65.38	6758.83	66.1	6759.07	66.37	6759.17	67.36	6759.52
67.37	6759.53	67.39	6759.53	68.35	6759.88	68.37	6759.88	68.4	6759.89
68.7	6760	68.74	6760.01	69.34	6760.23	69.37	6760.24	69.41	6760.24
70.33	6760.28	70.42	6760.28	71.32	6760.32	71.43	6760.32	72.31	6760.36
72.37	6760.37	72.44	6760.37	73.3	6760.41	73.37	6760.42	73.45	6760.42
74.29	6760.46	74.37	6760.47	74.46	6760.47	75.28	6760.5	75.47	6760.5
76.27	6760.53	76.37	6760.54	76.48	6760.54	77.26	6760.55	77.49	6760.55
78.25	6760.56	78.37	6760.57	78.5	6760.57	79.24	6760.58	79.51	6760.58
80.23	6760.59	80.37	6760.6	80.52	6760.59	81.22	6760.61	81.53	6760.61
82.21	6760.6	82.37	6760.59	82.54	6760.59	83.21	6760.58	83.56	6760.58
84.2	6760.57	84.38	6760.56	84.57	6760.53	85.19	6760.43	85.38	6760.4
85.58	6760.38	86.18	6760.27	86.38	6760.25	86.59	6760.24	87.17	6760.18
87.38	6760.16	87.6	6760.14	88.16	6760.09	88.38	6760.07	88.61	6760.05
89.15	6760	89.38	6759.98	89.62	6759.98	90.14	6759.99	90.38	6760
90.63	6760	91.13	6760.02	91.39	6760.01	92.65	6760.01	93.11	6760
94.67	6760	95.09	6760.01	95.39	6760.01	95.68	6760.02	96.08	6760.03
97.08	6760.03	97.39	6760.04	98.71	6760.04	99.06	6760.05	99.39	6760.05
99.72	6760.04	100.73	6760.04	101.04	6760.03	104.4	6760.03	104.78	6760.04
105.01	6760.05	105.4	6760.06	105.79	6760.07	106	6760.08	106.4	6760.09
106.8	6760.1	106.99	6760.11	107.4	6760.12	107.81	6760.13	107.98	6760.13
108.4	6760.14	108.82	6760.15	108.97	6760.15	109.4	6760.16	109.96	6760.16
110.4	6760.17	110.84	6760.16	110.95	6760.17	111.4	6760.17	111.85	6760.16
111.94	6760.16	112.4	6760.15	112.93	6760.15	113.4	6760.14	113.87	6760.13
118.4	6760.13	118.87	6760.14	119.4	6760.14	119.87	6760.15	119.95	6760.15
120.41	6760.16	120.86	6760.17	120.96	6760.18	121.41	6760.19	121.85	6760.21
121.97	6760.22	122.41	6760.23	122.84	6760.25	122.98	6760.25	123.38	6760.27
123.41	6760.27	123.82	6760.29	123.99	6760.29	124.41	6760.31	124.8	6760.31
125.02	6760.32	125.41	6760.32	125.78	6760.33	126.04	6760.34	126.41	6760.35
126.76	6760.36	127.06	6760.37	127.41	6760.38	127.74	6760.39	128.09	6760.4
128.41	6760.4	128.72	6760.41	129.11	6760.42	129.41	6760.43	129.69	6760.43
130.13	6760.44	133.2	6760.44	133.41	6760.43	134.59	6760.43	135.25	6760.42
135.41	6760.42	135.57	6760.41	136.27	6760.4	136.54	6760.4	137.29	6760.39
137.52	6760.39	138.32	6760.37	138.51	6760.37	139.35	6760.36	140.47	6760.36
141.39	6760.35	142.42	6760.35	142.63	6760.34	144.38	6760.34	144.42	6760.33
144.46	6760.34	145.36	6760.35	145.42	6760.36	145.49	6760.36	146.34	6760.37
146.51	6760.37	147.32	6760.39	147.53	6760.39	148.3	6760.4	148.42	6760.41
148.55	6760.41	149.28	6760.42	149.31	6760.42				

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.016	33.66	.04
			68.7
			.016

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	33.66	68.7		207.67	207.09	207.67	.3	.5

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split

RS: 995.7

INPUT

Description:

Station	Elevation	Data	num=	399						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	6761.96	.2	6761.96	.36	6761.95	.53	6761.95	1.19	6761.93	
1.36	6761.92	1.54	6761.92	2.18	6761.9	2.54	6761.88	3.18	6761.86	
3.36	6761.86	3.55	6761.85	4.17	6761.83	4.2	6761.83	4.2	6761.97	
4.63	6761.97	5.01	6761.95	5.25	6761.93	5.63	6761.92	6.01	6761.9	
6.25	6761.89	6.63	6761.87	7.02	6761.86	7.24	6761.85	7.63	6761.84	
8.02	6761.83	8.23	6761.82	8.63	6761.81	9.03	6761.8	9.23	6761.79	
9.63	6761.78	10.04	6761.78	10.22	6761.79	10.63	6761.79	11.04	6761.8	
11.63	6761.8	12.05	6761.81	12.21	6761.81	12.63	6761.82	13.05	6761.82	
13.2	6761.84	13.63	6761.85	14.06	6761.86	14.2	6761.87	14.63	6761.88	
18.08	6761.88	18.18	6761.87	19.63	6761.87	20.1	6761.85	20.16	6761.84	
20.63	6761.82	21.1	6761.8	21.16	6761.8	21.63	6761.78	22.11	6761.76	
22.15	6761.76	22.63	6761.74	23.11	6761.72	23.15	6761.72	23.63	6761.7	
24.12	6761.68	24.14	6761.68	24.63	6761.67	25.13	6761.67	25.63	6761.66	
27.63	6761.66	28.12	6761.65	28.14	6761.66	28.63	6761.65	29.11	6761.64	
29.63	6761.64	30.11	6761.62	30.16	6761.62	30.63	6761.61	31.1	6761.6	
31.16	6761.6	31.63	6761.59	32.09	6761.58	32.17	6761.57	32.63	6761.56	
33.09	6761.55	33.17	6761.55	33.63	6761.53	34.08	6761.52	34.18	6761.51	
34.63	6761.49	39.63	6761.14	40.05	6761.06	40.22	6761.03	40.63	6760.95	
41.04	6760.87	41.22	6760.84	41.63	6760.76	41.95	6760.7	41.97	6760.7	
42.03	6760.69	42.23	6760.66	42.63	6760.58	43.03	6760.51	43.23	6760.47	
43.63	6760.4	44.02	6760.35	44.24	6760.31	44.63	6760.25	45.02	6760.18	
45.25	6760.13	45.63	6760.05	45.8	6760.02	46.01	6759.98	46.25	6759.93	
46.63	6759.85	47.01	6759.78	47.26	6759.72	47.63	6759.65	48	6759.56	
48.26	6759.52	48.63	6759.43	48.99	6759.34	49.27	6759.28	49.63	6759.19	
49.99	6758.99	50.28	6758.84	50.63	6758.65	50.98	6758.5	51.28	6758.38	
51.63	6758.23	51.98	6758.1	52.29	6757.97	52.63	6757.84	52.97	6757.7	
53.29	6757.57	53.63	6757.44	53.96	6757.31	54.3	6757.17	54.45	6757.11	
54.63	6757.04	54.96	6756.91	55.31	6756.78	55.63	6756.65	55.95	6756.52	
56.31	6756.38	56.63	6756.26	56.95	6756.13	57.32	6755.99	57.63	6755.86	
57.94	6755.74	58.32	6755.59	58.63	6755.47	58.93	6755.3	59.33	6755.18	
59.63	6755	59.93	6754.95	60.34	6754.7	60.63	6754.65	60.92	6754.57	
61.34	6754.52	61.63	6754.44	61.92	6754.32	62.35	6754.24	62.63	6754.13	
62.91	6754.15	63.35	6754.25	63.63	6754.27	63.91	6754.36	64.36	6754.32	
64.63	6754.41	64.9	6754.34	65.21	6754.28	65.37	6754.25	65.63	6754.18	
65.89	6754.22	66.37	6754.25	66.63	6754.29	66.89	6754.41	66.95	6754.44	
67.38	6754.65	67.63	6754.77	67.88	6754.89	68.38	6755.13	68.63	6755.25	
68.88	6755.36	69.39	6755.61	69.63	6755.72	69.87	6755.76	70.4	6755.87	
70.63	6755.92	70.86	6755.96	71.4	6756.12	71.63	6756.17	71.86	6756.23	
72.41	6756.38	72.63	6756.44	72.85	6756.5	73.41	6756.65	73.63	6756.71	
73.85	6756.77	74.42	6756.92	74.63	6756.98	74.84	6756.98	75.43	6756.97	
75.83	6756.97	76.43	6756.96	76.83	6756.96	77.44	6756.95	77.63	6756.95	
77.82	6756.96	78.44	6756.94	78.63	6756.95	78.82	6756.96	79.45	6756.99	
79.63	6757	79.81	6757.01	80.46	6757.06	80.63	6757.08	80.81	6757.09	
81.46	6757.14	81.63	6757.15	81.8	6757.16	82.47	6757.21	82.63	6757.23	
82.79	6757.23	83.47	6757.29	83.63	6757.3	83.79	6757.3	84.48	6757.34	
84.63	6757.34	84.78	6757.35	85.49	6757.39	85.63	6757.4	85.78	6757.41	
86.49	6757.45	86.63	6757.46	86.77	6757.47	87.5	6757.51	87.63	6757.52	
87.76	6757.53	88.5	6757.57	88.63	6757.58	88.67	6757.58	88.76	6757.59	
89.5	6757.63	89.63	6757.64	89.77	6757.65	90.48	6757.71	90.63	6757.72	
90.78	6757.74	91.47	6757.8	91.63	6757.82	91.79	6757.85	92.46	6757.94	
92.63	6757.98	92.8	6758.02	93.45	6758.17	93.63	6758.21	93.82	6758.25	
94.44	6758.39	94.63	6758.43	94.83	6758.46	95.43	6758.52	95.63	6758.55	
95.84	6758.55	96.42	6758.61	96.85	6758.61	97.41	6758.67	97.86	6758.67	
98.4	6758.68	98.87	6758.68	99.39	6758.69	99.63	6758.69	99.88	6758.7	
100.38	6758.74	100.63	6758.76	100.89	6758.78	101.37	6758.81	101.63	6758.83	
101.91	6758.85	102.35	6758.88	102.63	6758.9	102.92	6758.93	103.34	6758.95	
103.63	6758.98	103.93	6759	104.33	6759.03	104.63	6759.06	104.94	6759.08	
105.32	6759.1	105.63	6759.13	105.95	6759.15	106.31	6759.17	106.63	6759.2	
106.96	6759.22	107.3	6759.24	107.63	6759.26	107.97	6759.29	108.29	6759.31	
108.63	6759.33	108.98	6759.36	109.28	6759.38	109.63	6759.4	109.99	6759.42	
110.27	6759.43	110.63	6759.44	111.01	6759.45	111.26	6759.46	111.63	6759.48	
112.02	6759.49	112.25	6759.5	112.63	6759.51	113.03	6759.52	113.24	6759.54	
113.63	6759.54	114.04	6759.55	114.22	6759.56	114.63	6759.57	115.63	6759.57	

116.06	6759.58	117.19	6759.58	117.63	6759.59	118.63	6759.59	119.1	6759.6
119.17	6759.6	119.63	6759.61	120.11	6759.64	120.16	6759.64	120.63	6759.67
121.12	6759.69	121.15	6759.7	121.63	6759.72	122.13	6759.75	122.14	6759.75
122.63	6759.78	123.13	6759.81	123.14	6759.82	123.63	6759.84	124.12	6759.88
124.15	6759.88	124.63	6759.91	125.11	6759.93	125.16	6759.93	125.63	6759.95
126.1	6759.97	126.17	6759.97	126.63	6759.99	127.08	6760	127.18	6760.01
127.63	6760.02	128.07	6760.04	128.2	6760.05	128.63	6760.06	129.06	6760.08
129.21	6760.09	129.63	6760.11	130.05	6760.13	130.22	6760.14	130.63	6760.16
131.04	6760.19	131.23	6760.2	131.63	6760.22	132.03	6760.24	132.24	6760.25
132.63	6760.27	133.02	6760.29	133.25	6760.3	133.63	6760.32	134.01	6760.34
134.26	6760.36	134.63	6760.38	135	6760.39	135.27	6760.4	135.63	6760.42
135.99	6760.43	136.29	6760.44	136.63	6760.45	136.98	6760.47	137.3	6760.48
137.63	6760.49	137.97	6760.5	138.31	6760.51	138.63	6760.53	138.95	6760.54
139.32	6760.55	139.63	6760.56	139.94	6760.53	140.33	6760.5	140.63	6760.47
140.93	6760.44	141.34	6760.41	141.63	6760.38	141.74	6760.37	141.92	6760.36
142.35	6760.32	142.63	6760.29	142.91	6760.27	143.36	6760.23	143.64	6760.21
143.9	6760.18	144.37	6760.2	144.63	6760.18	144.93	6760.23		

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.016	42.03	.04	104.63	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	49.63	104.94		159.9 159.28	159.9		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-split RS: 995.5

INPUT

Description:

Station Elevation Data		num=		364					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6762.15	.94	6762.15	1.86	6762.12	1.96	6762.12	2.84	6762.1
2.98	6762.1	3.83	6762.07	4	6762.07	4.81	6762.03	4.91	6762.02
5.02	6762.02	5.79	6761.98	5.91	6761.98	6.04	6761.97	6.77	6761.94
6.91	6761.93	7.06	6761.93	7.75	6761.89	7.91	6761.89	8.08	6761.88
8.73	6761.87	9.1	6761.87	9.71	6761.88	10.12	6761.88	10.69	6761.89
11.14	6761.89	11.67	6761.9	12.16	6761.9	12.66	6761.91	13.91	6761.91
14.2	6761.9	14.62	6761.89	14.91	6761.89	15.22	6761.88	15.6	6761.87
15.91	6761.87	16.24	6761.86	16.58	6761.85	16.91	6761.84	17.26	6761.83
17.56	6761.83	17.92	6761.82	18.28	6761.81	18.54	6761.8	18.92	6761.79
19.3	6761.76	19.52	6761.74	19.92	6761.71	20.32	6761.67	20.51	6761.66
20.92	6761.63	21.34	6761.59	21.49	6761.58	21.92	6761.55	22.36	6761.52
22.47	6761.51	22.92	6761.48	23.38	6761.46	23.45	6761.45	23.92	6761.43
24.43	6761.43	24.92	6761.44	27.93	6761.44	29.34	6761.44	29.5	6761.43
29.92	6761.43	30.32	6761.35	30.52	6761.44	30.92	6761.36	31.3	6761.19
31.54	6761.06	31.92	6760.89	32.28	6761.01	32.56	6761.1	32.92	6761.21
33.26	6761.27	33.58	6761.21	33.92	6761.27	34.24	6761.21	34.6	6761.15
34.92	6761.1	35.22	6761.05	35.62	6760.97	35.92	6760.92	36.2	6760.86
36.64	6760.76	36.92	6760.7	37.19	6760.64	37.66	6760.54	37.92	6760.49
38.17	6760.45	38.68	6760.36	38.92	6760.32	39.15	6760.25	39.7	6760.06
39.92	6759.99	40.13	6759.92	40.72	6759.72	40.86	6759.67	40.87	6759.67
40.92	6759.65	41.11	6759.59	41.74	6759.37	41.92	6759.31	42.09	6759.26
42.76	6759.02	42.92	6758.97	43.07	6758.92	43.78	6758.67	43.92	6758.62
44.05	6758.56	44.8	6758.2	44.92	6758.15	45.04	6758.09	45.82	6757.72
45.92	6757.67	46.02	6757.62	46.84	6757.23	46.92	6757.19	47	6757.16
47.86	6756.72	47.92	6756.69	47.98	6756.66	48.88	6756.21	48.92	6756.19
48.96	6756.17	49.9	6755.81	49.92	6755.8	49.94	6755.79	50.92	6755.41
51.01	6755.37	51.9	6755.03	51.92	6755.02	51.94	6755.01	52.89	6754.61
52.92	6754.59	52.96	6754.58	53.37	6754.4	53.87	6754.19	53.92	6754.17
53.98	6754.16	54.85	6754.04	54.92	6754.03	55	6754.02	55.83	6753.9
55.92	6753.89	56.02	6753.88	56.81	6753.76	56.92	6753.76	57.04	6753.74
57.79	6753.74	57.92	6753.73	58.06	6753.69	58.77	6752.7	58.84	6752.69
58.92	6752.67	59.08	6752.66	59.75	6753.08	59.92	6753.07	60.1	6753.11
60.74	6753.4	60.92	6753.44	61.12	6753.44	61.72	6753.46	61.92	6753.47
62.14	6753.5	62.7	6753.49	62.92	6753.52	63.16	6753.89	63.68	6754.76
63.92	6755.14	64.18	6755.35	64.66	6755.73	64.92	6755.94	65.2	6756.14
65.64	6756.24	65.86	6756.4	65.87	6756.41	65.92	6756.45	66.22	6756.54

66.62	6756.66	66.92	6756.76	67.24	6756.66	67.6	6756.85	67.92	6756.75
68.26	6756.61	68.58	6756.47	68.92	6756.32	69.28	6756.4	69.57	6756.46
69.92	6756.54	70.3	6756.62	70.55	6756.66	70.93	6756.74	71.32	6756.81
71.53	6756.79	71.93	6756.86	72.34	6756.9	72.51	6756.92	72.93	6756.95
73.05	6756.92	73.36	6756.82	73.49	6756.86	73.93	6756.72	74.39	6756.83
74.46	6756.84	74.93	6756.95	75.42	6757.05	75.43	6757.06	75.93	6757.16
76.4	6757.27	76.45	6757.23	76.93	6757.33	77.38	6757.41	77.48	6757.43
77.93	6757.51	78.35	6757.54	78.51	6757.59	78.93	6757.63	79.32	6757.66
79.54	6757.67	79.93	6757.7	80.29	6757.73	80.57	6757.77	80.93	6757.79
81.26	6757.83	81.6	6757.88	81.93	6757.91	82.24	6758	82.63	6758
82.93	6758.09	83.21	6758.21	83.66	6758.41	83.93	6758.52	84.18	6758.61
84.69	6758.5	84.93	6758.58	85.15	6758.41	85.73	6758.29	85.93	6758.13
86.13	6758.05	86.76	6758.1	86.93	6758.02	87.1	6758.03	87.79	6757.92
87.93	6757.93	88.07	6757.95	88.82	6758.07	88.93	6758.09	89.04	6758.1
89.85	6758.13	89.93	6758.14	90.01	6758.14	90.88	6758.18	90.99	6758.18
91.91	6758.22	91.96	6758.22	92.81	6758.25	92.93	6758.26	93.9	6758.34
93.93	6758.35	93.97	6758.35	94.87	6758.42	95	6758.42	95.85	6758.55
95.94	6758.56	96.03	6758.56	96.82	6758.69	96.94	6758.69	97.06	6758.71
97.79	6758.81	97.94	6758.84	98.09	6758.86	98.76	6758.95	98.94	6758.98
99.12	6758.98	99.74	6758.97	100.15	6758.97	100.71	6758.96	101.18	6758.96
101.68	6758.95	102.21	6758.95	102.65	6758.94	103.24	6758.94	103.62	6758.93
103.94	6758.93	104.27	6758.94	104.6	6758.96	104.94	6758.98	105.3	6758.99
105.57	6759	105.94	6759.02	106.33	6759.04	106.54	6759.05	106.94	6759.07
107.36	6759.08	107.51	6759.14	107.94	6759.16	108.39	6759.19	108.49	6759.18
108.94	6759.21	109.42	6759.23	109.46	6759.23	109.94	6759.24	110.43	6759.26
110.45	6759.26	110.94	6759.28	111.4	6759.28	111.48	6759.29	111.94	6759.3
112.37	6759.29	112.51	6759.28	112.94	6759.28	113.35	6759.25	113.55	6759.24
113.94	6759.21	114.32	6759.17	114.58	6759.15	114.94	6759.12	115.29	6759.09
115.61	6759.07	115.94	6759.04	116.26	6759.02	116.64	6759.04	116.94	6759.03
117.23	6759.03	117.67	6759.06	117.94	6759.05	118.21	6759.08	118.7	6759.11
118.94	6759.13	119.18	6759.15	119.73	6759.18	119.95	6759.19	120.15	6759.2
120.76	6759.23	120.95	6759.24	121.12	6759.25	121.79	6759.27	121.95	6759.29
122.1	6759.31	122.82	6759.34	122.95	6759.36	123.07	6759.38	123.85	6759.49
123.95	6759.5	124.04	6759.49	124.88	6759.39	124.95	6759.39	125.01	6759.38
125.91	6759.28	125.95	6759.28	125.98	6759.27	126.94	6759.16	126.96	6759.16
127.24	6759.13	127.93	6759.06	127.97	6759.06	128.9	6759.01	129	6759.01
129.87	6759.04	130.03	6759.04	130.08	6759.05	130.77	6759.11		

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.016	27.93	.025	40.87	.035	65.87	.045

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	40.87	65.87		105.25 105.25	105.25		.3	.5

CULVERT

RIVER: Walton Creek
 REACH: lower-split RS: 995.45

INPUT

Description: Ingles Lane
 Distance from Upstream XS = 5
 Deck/Roadway Width = 40
 Weir Coefficient = 2.6
 Upstream Deck/Roadway Coordinates

num= 293											
Sta	Hi Cord	Lo Cord		Sta	Hi Cord	Lo Cord		Sta	Hi Cord	Lo Cord	
2.81	6762.09	0		3.12	6762.09	0		3.12	6762.09	0	
3.15	6762.09	0		4.12	6762.13	0		4.51	6762.15	0	
5.11	6762.17	0		5.12	6762.17	0		5.13	6762.17	0	
6.1	6762.17	0		6.12	6762.17	0		6.15	6762.17	0	
7.08	6762.17	0		7.12	6762.17	0		7.17	6762.17	0	
8.07	6762.16	0		8.12	6762.16	0		8.18	6762.16	0	
9.05	6762.16	0		9.12	6762.16	0		9.2	6762.16	0	
10.04	6762.16	0		10.12	6762.15	0		10.22	6762.15	0	
11.02	6762.11	0		11.12	6762.1	0		11.23	6762.1	0	
12	6762.06	0		12.12	6762.05	0		12.25	6762.05	0	
12.99	6762.01	0		13.12	6762	0		13.27	6762	0	
13.97	6761.96	0		14.13	6761.95	0		14.28	6761.95	0	

14.96	6761.91	0	15.13	6761.9	0	15.3	6761.9	0
15.94	6761.89	0	16.13	6761.88	0	16.31	6761.88	0
16.93	6761.86	0	17.13	6761.85	0	17.33	6761.84	0
17.91	6761.83	0	18.13	6761.82	0	18.35	6761.81	0
18.9	6761.79	0	19.13	6761.79	0	19.36	6761.78	0
19.88	6761.76	0	20.13	6761.76	0	20.38	6761.75	0
20.86	6761.75	0	21.13	6761.75	0	21.4	6761.75	0
21.85	6761.75	0	22.13	6761.74	0	22.41	6761.74	0
22.83	6761.74	0	23.13	6761.74	0	23.43	6761.74	0
23.82	6761.73	0	24.13	6761.73	0	24.45	6761.73	0
24.8	6761.73	0	25.13	6761.72	0	25.46	6761.7	0
25.79	6761.68	0	26.13	6761.66	0	26.48	6761.63	0
26.77	6761.61	0	27.13	6761.59	0	27.49	6761.57	0
27.75	6761.55	0	28.13	6761.52	0	28.51	6761.5	0
28.74	6761.48	0	29.13	6761.45	0	29.53	6761.43	0
29.72	6761.44	0	30.13	6761.41	0	30.54	6761.4	0
30.71	6761.38	0	31.13	6761.37	0	31.56	6761.36	0
31.69	6761.36	0	32.13	6761.35	0	32.58	6761.34	0
32.68	6761.34	0	33.13	6761.33	0	33.59	6761.33	0
33.66	6761.32	0	34.13	6761.32	0	34.61	6761.31	0
34.65	6761.31	0	35.13	6761.3	0	35.63	6761.27	0
36.13	6761.24	0	36.61	6761.21	0	36.64	6761.21	0
37.13	6761.19	0	37.6	6761.16	0	37.66	6761.16	0
38.13	6761.13	0	38.58	6761.11	0	38.68	6761.1	0
39.13	6761.08	0	39.57	6761.05	0	39.69	6761.05	0
40.13	6761.02	0	40.55	6760.97	0	40.71	6761	0
41.13	6760.95	0	41.54	6760.93	0	41.72	6760.93	0
42.13	6760.91	0	42.52	6760.9	0	42.74	6760.89	0
43.13	6760.88	0	43.5	6760.87	0	43.76	6760.85	0
44.13	6760.85	0	44.49	6760.86	0	44.77	6760.82	0
45.13	6760.84	0	45.47	6760.82	0	45.79	6760.81	0
46.13	6760.79	0	46.46	6760.78	0	46.81	6760.76	0
47.13	6760.75	0	47.44	6760.73	0	47.82	6760.72	0
48.13	6760.7	0	48.43	6760.69	0	48.84	6760.67	0
49.13	6760.66	0	49.41	6760.65	0	49.86	6760.63	0
50.13	6760.61	0	50.39	6760.58	0	50.87	6760.57	0
51.13	6760.54	0	51.38	6760.52	0	51.89	6760.49	0
52.13	6760.48	0	52.36	6760.46	0	52.91	6760.43	0
53.13	6760.42	0	53.35	6760.41	0	53.92	6760.38	0
54.13	6760.37	0	54.33	6760.35	0	54.94	6760.32	0
55.13	6760.31	0	55.32	6760.3	0	55.95	6760.28	0
56.13	6760.28	0	56.3	6760.27	0	56.97	6760.25	0
57.13	6760.24	0	59.13	6760.17	0	59.25	6760.17	0
60.02	6760.14	0	60.13	6760.14	0	60.24	6760.14	0
61.04	6760.12	0	61.13	6760.12	0	61.22	6760.12	0
62.05	6760.1	0	62.13	6760.1	0	62.21	6760.1	0
63.07	6760.09	0	63.13	6760.09	0	63.19	6760.09	0
64.09	6760.07	0	64.13	6760.07	0	64.18	6760.07	0
65.1	6760.05	0	65.13	6760.05	0	65.16	6760.05	0
66.12	6760.06	0	66.13	6760.06	0	66.14	6760.06	0
66.95	6760.08	0	67.13	6760.08	0	68.11	6760.09	0
68.13	6760.09	0	68.15	6760.09	0	69.1	6760.1	0
69.13	6760.1	0	69.17	6760.11	0	70.08	6760.12	0
70.13	6760.12	0	70.18	6760.12	0	71.07	6760.1	0
71.13	6760.1	0	71.2	6760.1	0	72.05	6760.08	0
72.13	6760.08	0	72.22	6760.08	0	73.04	6760.06	0
73.13	6760.06	0	73.23	6760.06	0	74.02	6760.04	0
74.13	6760.04	0	74.25	6760.04	0	75	6760.02	0
75.13	6760.02	0	75.27	6760.01	0	75.99	6759.88	0
76.13	6759.87	0	76.28	6759.87	0	76.97	6759.88	0
77.13	6759.87	0	77.3	6759.86	0	77.96	6759.83	0
78.13	6759.83	0	78.32	6759.82	0	78.94	6759.79	0
79.13	6759.78	0	79.33	6759.78	0	79.93	6759.75	0
80.13	6759.74	0	80.35	6759.73	0	80.91	6759.7	0
81.13	6759.68	0	81.36	6759.67	0	81.89	6759.77	0
82.13	6759.76	0	82.38	6759.74	0	82.88	6759.78	0
83.13	6759.76	0	83.4	6759.75	0	83.86	6759.78	0
84.13	6759.76	0	84.41	6759.75	0	84.85	6759.78	0
85.13	6759.76	0	85.43	6759.75	0	85.83	6759.58	0
86.13	6759.57	0	86.45	6759.57	0	86.82	6759.52	0
87.13	6759.52	0	87.46	6759.52	0	87.8	6759.62	0

88.13	6759.62	0	88.48	6759.63	0	88.79	6759.6	0
89.13	6759.61	0	89.5	6759.63	0	89.77	6759.74	0
90.13	6759.75	0	90.51	6759.74	0	90.75	6759.72	0
91.14	6759.71	0	91.53	6759.73	0	91.74	6759.68	0
92.14	6759.7	0	92.55	6759.69	0	92.72	6759.67	0
93.14	6759.66	0	93.56	6759.67	0	93.71	6759.64	0
94.14	6759.65	0	94.58	6759.65	0	94.69	6759.62	0
95.14	6759.62	0	95.59	6759.63	0	95.68	6759.63	0
96.14	6759.64	0	96.61	6759.65	0	96.66	6759.65	0
97.14	6759.65	0	97.42	6759.66	0	97.62	6759.66	0
97.66	6759.66	0	98.14	6759.66	0	98.51	6759.66	0
98.83	6759.66	0	99.15	6759.66	0	99.25	6759.67	0
99.42	6759.67	0	99.89	6759.67	0	100.15	6759.68	0
100.42	6759.68	0	100.89	6759.69	0	101.15	6759.69	0
101.42	6759.69	0	101.64	6759.69	0			

Upstream Bridge Cross Section Data

Station Elevation Data		num=		364					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6762.15	.94	6762.15	1.86	6762.12	1.96	6762.12	2.84	6762.1
2.98	6762.1	3.83	6762.07	4	6762.07	4.81	6762.03	4.91	6762.02
5.02	6762.02	5.79	6761.98	5.91	6761.98	6.04	6761.97	6.77	6761.94
6.91	6761.92	7.06	6761.93	7.75	6761.89	7.91	6761.89	8.08	6761.88
8.73	6761.87	9.1	6761.87	9.71	6761.88	10.12	6761.88	10.69	6761.89
11.14	6761.89	11.67	6761.9	12.16	6761.9	12.66	6761.91	13.91	6761.91
14.2	6761.9	14.62	6761.89	14.91	6761.89	15.22	6761.88	15.6	6761.87
15.91	6761.87	16.24	6761.86	16.58	6761.85	16.91	6761.84	17.26	6761.83
17.56	6761.83	17.92	6761.82	18.28	6761.81	18.54	6761.8	18.92	6761.79
19.3	6761.76	19.52	6761.74	19.92	6761.71	20.32	6761.67	20.51	6761.66
20.92	6761.63	21.34	6761.59	21.49	6761.58	21.92	6761.55	22.36	6761.52
22.47	6761.51	22.92	6761.48	23.38	6761.46	23.45	6761.45	23.92	6761.43
24.43	6761.43	24.92	6761.44	27.93	6761.44	29.34	6761.44	29.5	6761.43
29.92	6761.43	30.32	6761.35	30.52	6761.44	30.92	6761.36	31.3	6761.19
31.54	6761.06	31.92	6760.89	32.28	6761.01	32.56	6761.1	32.92	6761.21
33.26	6761.27	33.58	6761.21	33.92	6761.27	34.24	6761.21	34.6	6761.15
34.92	6761.1	35.22	6761.05	35.62	6760.97	35.92	6760.92	36.2	6760.86
36.64	6760.76	36.92	6760.7	37.19	6760.64	37.66	6760.54	37.92	6760.49
38.17	6760.45	38.68	6760.36	38.92	6760.32	39.15	6760.25	39.7	6760.06
39.92	6759.99	40.13	6759.92	40.72	6759.72	40.86	6759.67	40.87	6759.67
40.92	6759.65	41.11	6759.59	41.74	6759.37	41.92	6759.31	42.09	6759.26
42.76	6759.02	42.92	6758.97	43.07	6758.92	43.78	6758.67	43.92	6758.62
44.05	6758.56	44.8	6758.2	44.92	6758.15	45.04	6758.09	45.82	6757.72
45.92	6757.67	46.02	6757.62	46.84	6757.23	46.92	6757.19	47	6757.16
47.86	6756.72	47.92	6756.69	47.98	6756.66	48.88	6756.21	48.92	6756.19
48.96	6756.17	49.9	6755.81	49.92	6755.8	49.94	6755.79	50.92	6755.41
51.01	6755.37	51.9	6755.03	51.92	6755.02	51.94	6755.01	52.89	6754.61
52.92	6754.59	52.96	6754.58	53.37	6754.4	53.87	6754.19	53.92	6754.17
53.98	6754.16	54.85	6754.04	54.92	6754.03	55	6754.02	55.83	6753.9
55.92	6753.89	56.02	6753.88	56.81	6753.76	56.92	6753.76	57.04	6753.74
57.79	6753.74	57.92	6753.73	58.06	6753.69	58.77	6752.7	58.84	6752.69
58.92	6752.67	59.08	6752.66	59.75	6753.08	59.92	6753.07	60.1	6753.11
60.74	6753.4	60.92	6753.44	61.12	6753.44	61.72	6753.46	61.92	6753.47
62.14	6753.5	62.7	6753.49	62.92	6753.52	63.16	6753.89	63.68	6754.76
63.92	6755.14	64.18	6755.35	64.66	6755.73	64.92	6755.94	65.2	6756.14
65.64	6756.24	65.86	6756.4	65.87	6756.41	65.92	6756.45	66.22	6756.54
66.62	6756.66	66.92	6756.76	67.24	6756.66	67.6	6756.85	67.92	6756.75
68.26	6756.61	68.58	6756.47	68.92	6756.32	69.28	6756.4	69.57	6756.46
69.92	6756.54	70.3	6756.62	70.55	6756.66	70.93	6756.74	71.32	6756.81
71.53	6756.79	71.93	6756.86	72.34	6756.9	72.51	6756.92	72.93	6756.95
73.05	6756.92	73.36	6756.82	73.49	6756.86	73.93	6756.72	74.39	6756.83
74.46	6756.84	74.93	6756.95	75.42	6757.05	75.43	6757.06	75.93	6757.16
76.4	6757.27	76.45	6757.23	76.93	6757.33	77.38	6757.41	77.48	6757.43
77.93	6757.51	78.35	6757.54	78.51	6757.59	78.93	6757.63	79.32	6757.66
79.54	6757.67	79.93	6757.7	80.29	6757.73	80.57	6757.77	80.93	6757.79
81.26	6757.83	81.6	6757.88	81.93	6757.91	82.24	6758	82.63	6758
82.93	6758.09	83.21	6758.21	83.66	6758.41	83.93	6758.52	84.18	6758.61
84.69	6758.5	84.93	6758.58	85.15	6758.41	85.73	6758.29	85.93	6758.13
86.13	6758.05	86.76	6758.1	86.93	6758.02	87.1	6758.03	87.79	6757.92
87.93	6757.93	88.07	6757.95	88.82	6758.07	88.93	6758.09	89.04	6758.1
89.85	6758.13	89.93	6758.14	90.01	6758.14	90.88	6758.18	90.99	6758.18
91.91	6758.22	91.96	6758.22	92.81	6758.25	92.93	6758.26	93.9	6758.34

93.93	6758.35	93.97	6758.35	94.87	6758.42	95	6758.42	95.85	6758.55
95.94	6758.56	96.03	6758.56	96.82	6758.69	96.94	6758.69	97.06	6758.71
97.79	6758.81	97.94	6758.84	98.09	6758.86	98.76	6758.95	98.94	6758.98
99.12	6758.98	99.74	6758.97	100.15	6758.97	100.71	6758.96	101.18	6758.96
101.68	6758.95	102.21	6758.95	102.65	6758.94	103.24	6758.94	103.62	6758.93
103.94	6758.93	104.27	6758.94	104.6	6758.96	104.94	6758.98	105.3	6758.99
105.57	6759	105.94	6759.02	106.33	6759.04	106.54	6759.05	106.94	6759.07
107.36	6759.08	107.51	6759.14	107.94	6759.16	108.39	6759.19	108.49	6759.18
108.94	6759.21	109.42	6759.23	109.46	6759.23	109.94	6759.24	110.43	6759.26
110.45	6759.26	110.94	6759.28	111.4	6759.28	111.48	6759.29	111.94	6759.3
112.37	6759.29	112.51	6759.28	112.94	6759.28	113.35	6759.25	113.55	6759.24
113.94	6759.21	114.32	6759.17	114.58	6759.15	114.94	6759.12	115.29	6759.09
115.61	6759.07	115.94	6759.04	116.26	6759.02	116.64	6759.04	116.94	6759.03
117.23	6759.03	117.67	6759.06	117.94	6759.05	118.21	6759.08	118.7	6759.11
118.94	6759.13	119.18	6759.15	119.73	6759.18	119.95	6759.19	120.15	6759.2
120.76	6759.23	120.95	6759.24	121.12	6759.25	121.79	6759.27	121.95	6759.29
122.1	6759.31	122.82	6759.34	122.95	6759.36	123.07	6759.38	123.85	6759.49
123.95	6759.5	124.04	6759.49	124.88	6759.39	124.95	6759.39	125.01	6759.38
125.91	6759.28	125.95	6759.28	125.98	6759.27	126.94	6759.16	126.96	6759.16
127.24	6759.13	127.93	6759.06	127.97	6759.06	128.9	6759.01	129	6759.01
129.87	6759.04	130.03	6759.04	130.08	6759.05	130.77	6759.11		

Manning's n Values		num= 4	
Sta	n Val	Sta	n Val
0	.016	27.93	.025
		40.87	.035
		65.87	.045

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	40.87	65.87		.3	.5

Downstream Deck/Roadway Coordinates									
num= 293									
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
-25.06	6762.09		0		-24.77	6762.09		0	
-24.72	6762.09		0		-23.75	6762.13		0	
-22.76	6762.17		0		-22.75	6762.17		0	
-21.77	6762.17		0		-21.75	6762.17		0	
-20.79	6762.17		0		-20.75	6762.17		0	
-19.8	6762.16		0		-19.75	6762.16		0	
-18.82	6762.16		0		-18.75	6762.16		0	
-17.83	6762.16		0		-17.75	6762.15		0	
-16.85	6762.11		0		-16.75	6762.1		0	
-15.87	6762.06		0		-15.75	6762.05		0	
-14.88	6762.01		0		-14.75	6762		0	
-13.9	6761.96		0		-13.74	6761.95		0	
-12.91	6761.91		0		-12.74	6761.9		0	
-11.93	6761.89		0		-11.74	6761.88		0	
-10.94	6761.86		0		-10.74	6761.85		0	
-9.96	6761.83		0		-9.74	6761.82		0	
-8.97	6761.79		0		-8.74	6761.79		0	
-7.99	6761.76		0		-7.74	6761.76		0	
-7.01	6761.75		0		-6.74	6761.75		0	
-6.02	6761.75		0		-5.74	6761.74		0	
-5.04	6761.74		0		-4.74	6761.74		0	
-4.05	6761.73		0		-3.74	6761.73		0	
-3.07	6761.73		0		-2.74	6761.72		0	
-2.08	6761.68		0		-1.74	6761.66		0	
-1.1	6761.61		0		-.74	6761.59		0	
-.12	6761.55		0		.26	6761.52		0	
.87	6761.48		0		1.26	6761.45		0	
1.85	6761.44		0		2.26	6761.41		0	
2.84	6761.38		0		3.26	6761.37		0	
3.82	6761.36		0		4.26	6761.35		0	
4.81	6761.34		0		5.26	6761.33		0	
5.79	6761.32		0		6.26	6761.32		0	
6.78	6761.31		0		7.26	6761.3		0	
8.26	6761.24		0		8.74	6761.21		0	
9.26	6761.19		0		9.73	6761.16		0	
10.26	6761.13		0		10.71	6761.11		0	
11.26	6761.08		0		11.7	6761.05		0	
12.26	6761.02		0		12.68	6760.97		0	
13.26	6760.95		0		13.67	6760.93		0	

14.26	6760.91	0	14.65	6760.9	0	14.87	6760.89	0
15.26	6760.88	0	15.63	6760.87	0	15.89	6760.85	0
16.26	6760.85	0	16.62	6760.86	0	16.9	6760.82	0
17.26	6760.84	0	17.6	6760.82	0	17.92	6760.81	0
18.26	6760.79	0	18.59	6760.78	0	18.94	6760.76	0
19.26	6760.75	0	19.57	6760.73	0	19.95	6760.72	0
20.26	6760.7	0	20.56	6760.69	0	20.97	6760.67	0
21.26	6760.66	0	21.54	6760.65	0	21.99	6760.63	0
22.26	6760.61	0	22.52	6760.58	0	23	6760.57	0
23.26	6760.54	0	23.51	6760.52	0	24.02	6760.49	0
24.26	6760.48	0	24.49	6760.46	0	25.04	6760.43	0
25.26	6760.42	0	25.48	6760.41	0	26.05	6760.38	0
26.26	6760.37	0	26.46	6760.35	0	27.07	6760.32	0
27.26	6760.31	0	27.45	6760.3	0	28.08	6760.28	0
28.26	6760.28	0	28.43	6760.27	0	29.1	6760.25	0
29.26	6760.24	0	31.26	6760.17	0	31.38	6760.17	0
32.15	6760.14	0	32.26	6760.14	0	32.37	6760.14	0
33.17	6760.12	0	33.26	6760.12	0	33.35	6760.12	0
34.18	6760.1	0	34.26	6760.1	0	34.34	6760.1	0
35.2	6760.09	0	35.26	6760.09	0	35.32	6760.09	0
36.22	6760.07	0	36.26	6760.07	0	36.31	6760.07	0
37.23	6760.05	0	37.26	6760.05	0	37.29	6760.05	0
38.25	6760.06	0	38.26	6760.06	0	38.27	6760.06	0
39.08	6760.08	0	39.26	6760.08	0	40.24	6760.09	0
40.26	6760.09	0	40.28	6760.09	0	41.23	6760.1	0
41.26	6760.1	0	41.3	6760.11	0	42.21	6760.12	0
42.26	6760.12	0	42.31	6760.12	0	43.2	6760.1	0
43.26	6760.1	0	43.33	6760.1	0	44.18	6760.08	0
44.26	6760.08	0	44.35	6760.08	0	45.17	6760.06	0
45.26	6760.06	0	45.36	6760.06	0	46.15	6760.04	0
46.26	6760.04	0	46.38	6760.04	0	47.13	6760.02	0
47.26	6760.02	0	47.4	6760.01	0	48.12	6759.88	0
48.26	6759.87	0	48.41	6759.87	0	49.1	6759.88	0
49.26	6759.87	0	49.43	6759.86	0	50.09	6759.83	0
50.26	6759.83	0	50.45	6759.82	0	51.07	6759.79	0
51.26	6759.78	0	51.46	6759.78	0	52.06	6759.75	0
52.26	6759.74	0	52.48	6759.73	0	53.04	6759.7	0
53.26	6759.68	0	53.49	6759.67	0	54.02	6759.77	0
54.26	6759.76	0	54.51	6759.74	0	55.01	6759.78	0
55.26	6759.76	0	55.53	6759.75	0	55.99	6759.78	0
56.26	6759.76	0	56.54	6759.75	0	56.98	6759.78	0
57.26	6759.76	0	57.56	6759.75	0	57.96	6759.58	0
58.26	6759.57	0	58.58	6759.57	0	58.95	6759.52	0
59.26	6759.52	0	59.59	6759.52	0	59.93	6759.62	0
60.26	6759.62	0	60.61	6759.63	0	60.92	6759.6	0
61.26	6759.61	0	61.63	6759.63	0	61.9	6759.74	0
62.26	6759.75	0	62.64	6759.74	0	62.88	6759.72	0
63.27	6759.71	0	63.66	6759.73	0	63.87	6759.68	0
64.27	6759.7	0	64.68	6759.69	0	64.85	6759.67	0
65.27	6759.66	0	65.69	6759.67	0	65.84	6759.64	0
66.27	6759.65	0	66.71	6759.65	0	66.82	6759.62	0
67.27	6759.62	0	67.72	6759.63	0	67.81	6759.63	0
68.27	6759.64	0	68.74	6759.65	0	68.79	6759.65	0
69.27	6759.65	0	69.55	6759.66	0	69.75	6759.66	0
69.79	6759.66	0	70.27	6759.66	0	70.64	6759.66	0
70.96	6759.66	0	71.28	6759.66	0	71.38	6759.67	0
71.55	6759.67	0	72.02	6759.67	0	72.28	6759.68	0
72.55	6759.68	0	73.02	6759.69	0	73.28	6759.69	0
73.55	6759.69	0	73.77	6759.69	0			

Downstream Bridge Cross Section Data

Station	Elevation	Data	num=	230	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.49	.59	6761.49	.76	6761.48	.92	6761.47	1.59	6761.44	
1.76	6761.43	1.93	6761.42	2.59	6761.38	2.76	6761.37	2.93	6761.36	
3.58	6761.32	3.76	6761.31	3.93	6761.28	4.58	6761.18	4.76	6761.15	
4.93	6761.12	5.58	6761.01	5.76	6760.98	5.93	6760.95	6.58	6760.87	
6.76	6760.84	6.94	6760.83	7.57	6760.81	7.76	6760.8	8.57	6760.8	
8.76	6760.79	8.94	6760.76	9.57	6760.64	9.76	6760.6	9.94	6760.56	
10.57	6760.45	10.76	6760.41	10.95	6760.38	11.57	6760.27	11.76	6760.23	
11.95	6760.17	12.56	6760.07	12.76	6760.01	12.95	6759.92	13.56	6759.65	

13.76	6759.56	13.95	6759.46	14.56	6759.17	14.76	6759.08	14.96	6758.98
15.56	6758.69	15.76	6758.6	15.96	6758.5	16.55	6758.22	16.76	6758.12
16.96	6758.02	17.55	6757.72	17.76	6757.63	17.96	6757.52	18.48	6757.26
18.55	6757.23	18.76	6757.13	18.97	6757.01	19.55	6756.69	19.59	6756.67
19.76	6756.57	19.96	6756.46	20.56	6756.13	20.76	6756.02	20.95	6755.91
21.57	6755.57	21.76	6755.47	21.94	6755.37	22.59	6754.96	22.76	6754.86
22.92	6754.76	23.6	6754.34	23.76	6754.24	23.91	6754.15	24.61	6753.54
24.76	6753.46	24.9	6753.41	25.63	6753.14	25.76	6753.1	25.89	6753.06
26.64	6752.81	26.75	6752.77	26.76	6752.77	26.87	6752.73	27.65	6752.47
27.76	6752.44	27.86	6752.4	28.67	6752.02	28.76	6751.99	28.85	6751.93
29.68	6751.55	29.76	6751.5	29.83	6751.51	30.69	6751.7	30.76	6751.71
30.82	6751.72	30.98	6751.76	31.71	6751.91	31.76	6751.92	31.81	6751.93
32.72	6752.12	32.76	6752.13	32.8	6752.14	32.99	6752.18	33.74	6752.33
33.76	6752.34	33.78	6752.34	34.76	6752.24	34.83	6752.27	35.74	6752.65
35.76	6752.66	35.78	6752.67	36.15	6752.82	36.72	6753.06	36.76	6753.09
36.8	6753.13	37.7	6753.91	37.76	6753.97	37.82	6754.02	38.67	6754.78
38.76	6754.86	38.85	6754.89	39.65	6755.2	39.76	6755.24	39.87	6755.29
40.63	6755.58	40.76	6755.63	40.9	6755.68	41.58	6755.93	41.6	6755.94
41.76	6756	41.92	6756.06	42.58	6756.3	42.76	6756.36	42.95	6756.41
43.48	6756.55	43.56	6756.57	43.75	6756.63	43.96	6756.64	44.51	6756.67
44.73	6756.68	44.97	6756.7	45.47	6756.73	45.71	6756.74	45.97	6756.76
46.43	6756.78	46.69	6756.8	46.98	6756.82	47.38	6756.84	47.67	6756.86
47.97	6756.88	48.34	6756.9	48.65	6756.92	48.98	6756.93	49.3	6756.93
49.63	6756.94	49.98	6756.95	50.26	6756.95	50.61	6756.96	50.99	6756.97
51.21	6756.97	51.59	6756.98	51.99	6756.99	52.17	6757	52.57	6757.01
53	6757.02	53.13	6757.02	53.55	6757.04	54	6756.97	54.08	6756.96
54.53	6756.9	55.01	6756.84	55.04	6756.86	55.51	6756.8	55.99	6756.81
56	6756.77	56.48	6756.79	56.94	6756.8	57.01	6756.8	57.46	6756.82
57.9	6756.95	58.01	6757.05	58.45	6757.18	58.86	6757.17	59.02	6757.16
59.43	6757.14	59.81	6757.13	60.02	6757.12	60.41	6757.1	60.77	6757.09
61.03	6757.08	61.39	6757.07	61.73	6757.05	62.03	6757.04	62.37	6757.03
62.68	6757.02	63.04	6757	63.35	6756.99	64.03	6756.99	64.33	6756.98
65.31	6756.98	65.55	6756.97	66.05	6756.97	66.29	6756.97	66.51	6756.96
67.47	6756.96	68.05	6756.95	68.25	6756.95	68.42	6756.93	69.06	6756.88
69.22	6756.87	69.38	6756.85	70.06	6756.79	70.2	6756.78	70.34	6756.77
71.07	6756.71	71.18	6756.7	71.3	6756.69	72.06	6756.63	72.16	6756.62
72.25	6756.61	73.07	6756.54	73.14	6756.54	73.21	6756.51	74.07	6756.23
74.12	6756.21	74.17	6756.2	75.08	6756.15	75.12	6756.15	75.98	6756.11

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	5.76	.038	41.58	.04

Bank Sta: Left Right Coeff Contr. Expan.

18.48	43.48		
		.3	.5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
58.45	75.98	6757.18	F

Upstream Embankment side slope = 3 horiz. to 1.0 vertical

Downstream Embankment side slope = 3 horiz. to 1.0 vertical

Maximum allowable submergence for weir flow = .98

Elevation at which weir flow begins =

Energy head used in spillway design =

Spillway height used in design =

Weir crest shape = Broad Crested

Number of Culverts = 1

Culvert Name	Shape	Rise	Span
Culvert #1	Circular	6	
FHWA Chart # 2 - Corrugated Metal Pipe Culvert			
FHWA Scale # 2 - Mitered to conform to slope			
Solution Criteria = Highest U.S. EG			
Culvert Upstrm Dist	Length	Top n	Bottom n
		Depth Blocked	Entrance Loss Coef
			Exit Loss
	6.56	80	.024
			.024
			0
			.5
			1
Upstream	Elevation =	6752.38	
	Centerline Station =	59.13	
Downstream	Elevation =	6751.98	
	Centerline Station =	31.23	

CROSS SECTION

RIVER: Walton Creek

REACH: lower-split

RS: 995.4

INPUT

Description:

Station Elevation Data num= 230

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.49	.59	6761.49	.76	6761.48	.92	6761.47	1.59	6761.44
1.76	6761.43	1.93	6761.42	2.59	6761.38	2.76	6761.37	2.93	6761.36
3.58	6761.32	3.76	6761.31	3.93	6761.28	4.58	6761.18	4.76	6761.15
4.93	6761.12	5.58	6761.01	5.76	6760.98	5.93	6760.95	6.58	6760.87
6.76	6760.84	6.94	6760.83	7.57	6760.81	7.76	6760.8	8.57	6760.8
8.76	6760.79	8.94	6760.76	9.57	6760.64	9.76	6760.6	9.94	6760.56
10.57	6760.45	10.76	6760.41	10.95	6760.38	11.57	6760.27	11.76	6760.23
11.95	6760.17	12.56	6760.07	12.76	6760.01	12.95	6759.92	13.56	6759.65
13.76	6759.56	13.95	6759.46	14.56	6759.17	14.76	6759.08	14.96	6758.98
15.56	6758.69	15.76	6758.6	15.96	6758.5	16.55	6758.22	16.76	6758.12
16.96	6758.02	17.55	6757.72	17.76	6757.63	17.96	6757.52	18.48	6757.26
18.55	6757.23	18.76	6757.13	18.97	6757.01	19.55	6756.69	19.59	6756.67
19.76	6756.57	19.96	6756.46	20.56	6756.13	20.76	6756.02	20.95	6755.91
21.57	6755.57	21.76	6755.47	21.94	6755.37	22.59	6754.96	22.76	6754.86
22.92	6754.76	23.6	6754.34	23.76	6754.24	23.91	6754.15	24.61	6753.54
24.76	6753.46	24.9	6753.41	25.63	6753.14	25.76	6753.1	25.89	6753.06
26.64	6752.81	26.75	6752.77	26.76	6752.77	26.87	6752.73	27.65	6752.47
27.76	6752.44	27.86	6752.4	28.67	6752.02	28.76	6751.99	28.85	6751.93
29.68	6751.55	29.76	6751.5	29.83	6751.51	30.69	6751.7	30.76	6751.71
30.82	6751.72	30.98	6751.76	31.71	6751.91	31.76	6751.92	31.81	6751.93
32.72	6752.12	32.76	6752.13	32.8	6752.14	32.99	6752.18	33.74	6752.33
33.76	6752.34	33.78	6752.34	34.76	6752.24	34.83	6752.27	35.74	6752.65
35.76	6752.66	35.78	6752.67	36.15	6752.82	36.72	6753.06	36.76	6753.09
36.8	6753.13	37.7	6753.91	37.76	6753.97	37.82	6754.02	38.67	6754.78
38.76	6754.86	38.85	6754.89	39.65	6755.2	39.76	6755.24	39.87	6755.29
40.63	6755.58	40.76	6755.63	40.9	6755.68	41.58	6755.93	41.6	6755.94
41.76	6756	41.92	6756.06	42.58	6756.3	42.76	6756.36	42.95	6756.41
43.48	6756.55	43.56	6756.57	43.75	6756.63	43.96	6756.64	44.51	6756.67
44.73	6756.68	44.97	6756.7	45.47	6756.73	45.71	6756.74	45.97	6756.76
46.43	6756.78	46.69	6756.8	46.98	6756.82	47.38	6756.84	47.67	6756.86
47.97	6756.88	48.34	6756.9	48.65	6756.92	48.98	6756.93	49.3	6756.93
49.63	6756.94	49.98	6756.95	50.26	6756.95	50.61	6756.96	50.99	6756.97
51.21	6756.97	51.59	6756.98	51.99	6756.99	52.17	6757	52.57	6757.01
53	6757.02	53.13	6757.02	53.55	6757.04	54	6756.97	54.08	6756.96
54.53	6756.9	55.01	6756.84	55.04	6756.86	55.51	6756.8	55.99	6756.81
56	6756.77	56.48	6756.79	56.94	6756.8	57.01	6756.8	57.46	6756.82
57.9	6756.95	58.01	6757.05	58.45	6757.18	58.86	6757.17	59.02	6757.16
59.43	6757.14	59.81	6757.13	60.02	6757.12	60.41	6757.1	60.77	6757.09
61.03	6757.08	61.39	6757.07	61.73	6757.05	62.03	6757.04	62.37	6757.03
62.68	6757.02	63.04	6757	63.35	6756.99	64.03	6756.99	64.33	6756.98
65.31	6756.98	65.55	6756.97	66.05	6756.97	66.29	6756.97	66.51	6756.96
67.47	6756.96	68.05	6756.95	68.25	6756.95	68.42	6756.93	69.06	6756.88
69.22	6756.87	69.38	6756.85	70.06	6756.79	70.2	6756.78	70.34	6756.77
71.07	6756.71	71.18	6756.7	71.3	6756.69	72.06	6756.63	72.16	6756.62
72.25	6756.61	73.07	6756.54	73.14	6756.54	73.21	6756.51	74.07	6756.23
74.12	6756.21	74.17	6756.2	75.08	6756.15	75.12	6756.15	75.98	6756.11

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	5.76	.038	41.58	.04

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	18.48	43.48		197.72	197.72	197.72		.3	.5
Ineffective Flow			num=	1					
Sta L	Sta R	Elev	Permanent						
58.45	75.98	6757.18	F						

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 995.2

INPUT

Description:

Station Elevation		Data	num=		251						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.98	.21	6761.98	.27	6761.97	.38	6761.97	.49	6761.96		
.67	6761.96	.77	6761.95	1.05	6761.95	1.13	6761.94	1.42	6761.94		
1.52	6761.93	1.8	6761.93	1.89	6761.92	2.08	6761.92	2.17	6761.91		
2.28	6761.91	2.36	6761.9	2.56	6761.9	2.65	6761.89	2.85	6761.89		
2.93	6761.88	3.01	6761.88	3.14	6761.87	3.21	6761.87	3.28	6761.86		
3.42	6761.85	3.56	6761.85	3.71	6761.84	3.78	6761.83	3.84	6761.83		
4	6761.82	4.06	6761.81	4.12	6761.81	4.28	6761.8	4.34	6761.8		
4.4	6761.78	4.57	6761.74	4.62	6761.72	4.68	6761.71	4.86	6761.67		
4.91	6761.66	4.96	6761.64	5.14	6761.6	5.19	6761.59	5.24	6761.58		
5.43	6761.53	5.47	6761.52	5.52	6761.51	5.71	6761.46	5.76	6761.45		
5.8	6761.45	6	6761.46	6.91	6761.46	7.15	6761.45	7.19	6761.45		
7.43	6761.43	7.47	6761.43	7.72	6761.36	7.73	6761.36	7.75	6761.35		
8.01	6761.28	8.03	6761.28	8.29	6761.21	8.3	6761.21	8.31	6761.2		
8.58	6761.13	8.59	6761.13	8.87	6761.03	8.87	6761.02	9.06	6760.95		
9.15	6760.92	9.3	6760.87	9.43	6760.82	9.44	6760.81	9.71	6760.8		
9.72	6760.8	9.98	6760.81	10	6760.81	10.01	6760.8	10.26	6760.68		
10.28	6760.68	10.3	6760.67	10.54	6760.58	10.56	6760.57	10.58	6760.56		
10.82	6760.47	10.85	6760.46	10.87	6760.45	11.1	6760.36	11.13	6760.35		
11.16	6760.34	11.38	6760.26	11.41	6760.25	11.44	6760.21	11.66	6759.91		
11.7	6759.88	11.73	6759.84	11.94	6759.6	11.98	6759.56	12.01	6759.52		
12.09	6759.43	12.53	6759.3	12.68	6759.25	12.84	6759.2	13.5	6758.99		
13.68	6758.94	13.87	6758.88	14.36	6758.72	14.47	6758.69	14.68	6758.62		
14.9	6758.51	15.44	6758.35	15.68	6758.22	15.94	6758.08	16.41	6757.84		
16.68	6757.69	16.97	6757.54	17.37	6757.33	17.68	6757.17	18	6757		
18.34	6756.82	18.68	6756.64	19.04	6756.45	19.31	6756.31	19.68	6756.11		
20.07	6755.89	20.28	6755.69	20.68	6755.47	21.1	6755.23	21.25	6755.15		
21.68	6754.91	22.14	6754.65	22.22	6754.6	22.68	6754.35	23.17	6754.08		
23.19	6754.06	23.68	6753.79	24.16	6753.52	24.2	6753.5	24.68	6753.23		
25.13	6752.97	25.23	6752.87	25.68	6752.61	26.1	6752.47	26.27	6752.46		
26.68	6752.33	26.86	6752.4	27.07	6752.5	27.3	6752.59	27.68	6752.76		
28.04	6752.91	28.33	6753.04	28.68	6753.19	29.01	6753.32	29.37	6753.49		
29.68	6753.62	29.98	6753.68	30.4	6753.93	30.68	6753.99	30.95	6754.11		
31.43	6754.32	31.69	6754.43	31.92	6754.54	32.47	6754.78	32.69	6754.88		
32.89	6754.99	33.5	6755.24	33.69	6755.34	33.86	6755.44	34.53	6755.71		
34.69	6755.8	34.83	6755.83	35.57	6755.94	35.69	6755.96	35.8	6755.98		
36.6	6756.1	36.63	6756.11	36.69	6756.12	36.7	6756.12	36.77	6756.13		
37.61	6756.26	37.69	6756.28	37.76	6756.29	38.63	6756.42	38.69	6756.43		
38.75	6756.44	39.36	6756.54	39.64	6756.58	39.69	6756.59	39.74	6756.6		
40.65	6756.71	40.69	6756.72	40.73	6756.73	41.66	6756.85	41.71	6756.85		
42.67	6756.98	42.7	6756.98	43.69	6757.11	43.94	6757.14	44.68	6757.24		
44.7	6757.24	45.67	6757.31	45.71	6757.31	46.66	6757.38	46.69	6757.38		
46.72	6757.39	47.65	6757.45	47.69	6757.46	47.73	6757.46	48.63	6757.53		
48.75	6757.53	49.62	6757.6	49.76	6757.6	50.61	6757.65	50.69	6757.65		
50.77	6757.66	51.6	6757.7	51.69	6757.71	51.78	6757.71	52.59	6757.75		
52.69	6757.76	52.79	6757.77	53.58	6757.81	53.69	6757.81	53.81	6757.82		
54.56	6757.86	54.69	6757.86	54.77	6757.87	54.82	6757.87	55.55	6757.89		
55.69	6757.89	55.83	6757.9	56.54	6757.91	56.69	6757.92	56.84	6757.92		
57.53	6757.94	57.69	6757.95	57.85	6757.95	58.52	6757.97	58.69	6757.97		
58.87	6757.95	59.51	6758	59.69	6757.97	59.88	6757.96	60.49	6757.86		
60.69	6757.85	60.89	6757.83	61.48	6757.75	61.69	6757.72	61.9	6757.7		
61.96	6757.7										

Manning's n Values		num=		3		
Sta	n Val	Sta	n Val	Sta	n Val	
0	.016	2.65	.038	34.53	.04	

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	20.28	34.53		127.75	127.76	127.75		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-split RS: 995

INPUT

Description:

Station Elevation		Data		num=		172									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6761.36	.25	6761.36	.27	6761.35	.34	6761.35	.35	6761.34						
1.34	6761.26	1.4	6761.25	2.34	6761.17	2.35	6761.17	3.33	6761.08						
3.36	6761.08	4.32	6760.79	4.34	6760.78	4.37	6760.78	5.31	6760.5						
5.34	6760.49	5.37	6760.48	6.31	6760.2	6.34	6760.19	6.38	6760.18						
7.3	6759.91	7.34	6759.89	7.39	6759.87	8.29	6759.61	8.34	6759.59						
8.4	6759.56	9.28	6759.04	9.34	6759.01	9.4	6758.97	10.28	6758.46						
10.34	6758.42	10.41	6758.38	11.27	6757.88	11.34	6757.84	11.42	6757.8						
12.26	6757.31	12.34	6757.26	12.43	6757.22	13.25	6756.73	13.34	6756.69						
13.44	6756.65	14.25	6756.33	14.34	6756.29	14.44	6756.25	15.24	6755.94						
15.34	6755.9	15.45	6755.85	16.23	6755.55	16.34	6755.5	16.46	6755.46						
17.22	6755.15	17.34	6755.11	17.47	6755.06	18.22	6754.76	18.34	6754.71						
18.47	6754.68	19.21	6754.47	19.34	6754.44	19.48	6754.4	20.2	6754.2						
20.34	6754.16	20.49	6754.12	21.19	6753.92	21.34	6753.88	21.5	6753.84						
22.19	6753.65	22.34	6753.61	22.5	6753.56	23.18	6753.37	23.34	6753.33						
23.51	6753.3	24.17	6753.18	24.19	6753.18	24.34	6753.15	24.52	6753.11						
25.16	6753	25.34	6752.96	25.53	6752.93	26.16	6752.82	26.34	6752.78						
26.54	6752.75	27.15	6752.64	27.34	6752.6	27.54	6752.57	28.14	6752.45						
28.34	6752.42	28.55	6752.42	29.13	6752.4	29.34	6752.39	29.56	6752.39						
30.13	6752.37	30.34	6752.37	30.57	6752.36	31.12	6752.35	31.34	6752.34						
31.57	6752.34	32.11	6752.32	32.34	6752.31	32.58	6752.3	33.1	6752.29						
33.34	6752.27	33.59	6752.17	34.1	6751.94	34.34	6751.83	34.6	6751.73						
35.09	6751.5	35.34	6751.4	35.6	6751.37	36.08	6751.26	36.34	6751.22						
36.61	6751.25	36.69	6751.29	37.07	6751.45	37.34	6751.47	37.56	6751.63						
37.61	6751.67	38.14	6752.02	38.35	6752.17	38.51	6752.22	39.29	6752.44						
39.36	6752.46	39.41	6752.48	39.52	6752.51	39.88	6752.61	40.31	6752.73						
40.36	6752.75	40.43	6752.77	41.21	6752.99	41.37	6753.03	41.57	6753.09						
42.11	6753.24	42.38	6753.32	42.72	6753.41	43.01	6753.49	43.39	6753.6						
43.86	6753.54	43.91	6753.61	44.39	6753.54	47.41	6753.54	47.51	6753.55						
48.44	6753.55	49.19	6753.74	49.31	6753.77	49.43	6753.8	49.58	6753.84						
50.21	6753.8	50.44	6753.86	50.72	6753.87	51.11	6753.88	51.44	6753.89						
51.87	6753.9	52.01	6753.9	52.45	6753.91	52.91	6753.93	53.01	6753.93						
53.46	6753.94	53.81	6753.97	54.15	6754.01	54.46	6754.04	54.71	6754.06						
55.3	6754.12	55.47	6754.13	55.61	6754.15	56.44	6754.22	56.48	6754.23						
56.51	6754.23	56.75	6754.22	57.41	6754.18	57.49	6754.17	57.59	6754.17						
58.31	6754.12	58.32	6754.12												

Manning's n Values

Sta		n Val		num=		3	
0	.038	22.19	.038	43.39	.05		

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	22.19	43.39		0	0	0		.1	.3

CROSS SECTION

RIVER: Walton Creek

REACH: lower-main split RS: 5893

INPUT

Description:

Station Elevation		Data		num=		489									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	6767.21	.5	6767.21	1.65	6767.07	2	6767	2.27	6766.96						
3.15	6766.8	3.67	6766.7	4.37	6766.58	4.68	6766.52	5.55	6766.37						
5.69	6766.34	6.68	6766.16	8.44	6766.12	8.72	6766.11	9.09	6766.11						
9.73	6766.09	10.74	6766.07	11.98	6766.04	15	6766.04	15.79	6766.05						
16.18	6766.06	16.39	6766.05	17.27	6766.07	17.81	6766.07	18.15	6766.08						
19.04	6766.08	20.5	6766.1	20.9	6766.1	21.69	6766.09	22.09	6766.09						
22.57	6766.07	22.87	6766.07	23.88	6766.05	24.89	6766.05	25.22	6766.04						
26.81	6766.04	26.91	6766.03	27.86	6766.16	27.99	6766.17	28.75	6766.27						
29.17	6766.32	29.63	6766.31	29.94	6766.36	30.51	6766.38	31.4	6766.42						
31.96	6766.45	33.9	6766.4	35.08	6766.38	35.81	6766.36	36.26	6766.34						
37.01	6766.32	37.57	6766.23	38.62	6766.04	39.34	6765.92	40.04	6765.79						
40.22	6765.79	40.99	6765.63	41.46	6765.6	42.17	6765.58	43.07	6765.63						
43.35	6765.65	44.64	6765.72	45.1	6765.74	45.52	6765.77	46.11	6765.8						

46.4	6765.79	46.89	6765.84	47.12	6765.83	47.28	6765.86	48.07	6765.97
49.05	6766.1	49.26	6766.12	50.15	6766.24	50.44	6766.27	51.16	6766.37
52.17	6766.5	52.58	6766.57	52.8	6766.69	53.18	6766.77	53.98	6766.92
54.19	6766.97	55.16	6767.15	55.23	6767.17	56.21	6767.36	56.34	6767.38
56.99	6767.51	57.22	6767.55	57.88	6767.58	58.71	6767.61	58.76	6767.63
59.24	6767.64	60.52	6767.74	61.07	6767.77	61.26	6767.79	62.25	6767.86
62.41	6767.85	63.43	6767.81	64.29	6767.77	64.61	6767.71	64.94	6767.74
65.79	6767.57	66.31	6767.46	66.7	6767.39	67.32	6767.26	68.16	6767.29
68.47	6767.31	70.23	6767.37	70.36	6767.38	71.12	6767.39	72.38	6767.43
75.41	6767.43	75.53	6767.42	76.42	6767.43	77.3	6767.39	78.18	6767.42
78.44	6767.42	78.79	6767.44	79.06	6767.44	79.45	6767.46	79.94	6767.47
79.97	6767.48	81.15	6767.51	81.71	6767.54	82.33	6767.55	82.59	6767.56
83.36	6767.54	83.51	6767.53	84.69	6767.5	85.24	6767.49	85.88	6767.47
86.52	6767.46	87.01	6767.44	87.53	6767.43	87.89	6767.44	88.24	6767.42
88.54	6767.43	89.42	6767.44	89.65	6767.45	90.54	6767.46	90.56	6767.47
90.59	6765.82	91.57	6765.82	95.85	6765.75	98.98	6765.69	102.68	6765.63
104.53	6765.61	106.38	6765.61	109.22	6765.58	110.08	6765.59	111.77	6765.57
120.04	6765.45	124.85	6765.39	130.32	6765.35	132.79	6765.34	141.99	6765.26
142.21	6765.26	144.92	6765.24	153.19	6765.2	161.05	6765.15	169.23	6765.11
175.15	6765.09	180.34	6765.06	182.19	6765.06	187.74	6765.02	189.3	6765.02
193.42	6765	193.99	6765	198.72	6764.97	202.51	6764.96	206.21	6764.93
211.19	6764.9	219.49	6764.86	221.02	6764.86	224.72	6764.83	231.67	6764.79
236.36	6764.77	239.48	6764.75	243.19	6764.75	244.34	6764.76	248.49	6764.76
252.65	6764.75	256.76	6764.73	264.62	6764.68	269.35	6764.64	274.03	6764.67
276.5	6764.68	285.76	6764.77	289.91	6764.8	302.37	6765.22	307.02	6765.38
309.78	6765.49	310.64	6765.51	314.76	6765.67	317.18	6765.75	318.91	6765.82
320.08	6766.02	320.63	6766.12	320.85	6766.18	321.33	6766.24	321.62	6766.31
323.17	6766.73	323.94	6766.95	324.71	6767.16	325.26	6767.29	325.48	6767.37
325.81	6767.44	326.56	6772.1	327.54	6772.21	327.59	6772.22	328.53	6772.24
329.57	6772.25	329.62	6772.26	330.63	6772.27	331.5	6772.29	331.64	6772.3
332.65	6772.31	334.68	6772.29	335.45	6772.28	336.57	6772.27	336.7	6772.26
337.42	6772.25	338.73	6772.25	339.4	6772.24	340.57	6772.24	340.75	6772.23
341.57	6772.23	341.77	6772.22	342.36	6772.23	342.57	6772.21	343.79	6772.23
344.57	6772.23	344.8	6772.24	345.33	6772.24	345.57	6772.25	346.32	6772.26
346.83	6772.26	347.3	6772.27	347.84	6772.27	348.57	6772.26	348.85	6772.25
349.28	6772.25	349.57	6772.24	350.27	6772.23	350.88	6772.23	352.24	6772.21
353.23	6772.19	353.91	6772.19	354.22	6772.18	354.93	6772.18	355.21	6772.17
355.94	6772.17	356.2	6772.16	356.57	6772.16	357.57	6772.14	358.17	6772.14
358.57	6772.15	359.57	6772.15	359.99	6772.16	361.14	6772.16	361.57	6772.17
362.57	6772.17	363.03	6772.2	363.57	6772.22	364.04	6772.25	364.57	6772.27
365.05	6772.3	365.57	6772.32	366.06	6772.35	366.57	6772.37	367.07	6772.4
367.08	6772.37	367.57	6772.39	368.57	6772.37	369.04	6772.35	369.57	6772.34
370.03	6772.32	371.02	6772.3	371.13	6772.29	372.57	6772.26	373.15	6772.28
376.19	6772.43	377.57	6772.5	377.93	6772.51	378.21	6772.49	378.57	6772.5
378.92	6772.52	379.91	6772.55	380.24	6772.57	380.9	6772.59	381.25	6772.61
381.89	6772.63	382.57	6772.66	383.28	6772.63	384.29	6772.6	386.83	6772.5
387.33	6772.57	387.57	6772.56	388.34	6772.6	388.57	6772.62	389.35	6772.66
389.57	6772.68	390.57	6772.73	390.78	6772.75	392.57	6772.84	394.73	6772.84
395.42	6772.83	397.69	6772.83	399.47	6772.85	399.67	6772.86	401.65	6772.88
402.51	6772.84	402.63	6772.84	403.52	6772.89	403.62	6772.9	404.54	6772.94
404.61	6772.95	406.56	6773.05	407.57	6773.07	408.56	6773.04	409.6	6773.02
410.54	6772.99	410.61	6773	411.62	6772.97	412.51	6773.01	413.65	6773.09
414.49	6773.16	415.67	6773.24	416.47	6773.3	417.57	6773.4	420.57	6773.4
420.74	6773.41	421.41	6773.4	421.75	6773.42	423.77	6773.48	424.37	6773.46
424.79	6773.46	425.58	6773.44	426.35	6773.43	427.33	6773.41	427.58	6773.4
428.84	6773.45	429.31	6773.46	430.58	6773.51	430.86	6773.54	431.29	6773.53
431.58	6773.57	432.27	6773.64	432.58	6773.68	433.26	6773.71	434.58	6773.79
434.91	6773.8	435.58	6773.84	435.92	6773.82	436.23	6773.88	436.94	6773.84
437.58	6773.81	439.58	6773.75	439.97	6773.73	440.58	6773.72	440.99	6773.72
441.17	6773.7	442.58	6773.73	444.02	6773.7	444.58	6773.7	445.58	6773.68
446.05	6773.69	446.11	6773.67	447.58	6773.7	450.1	6773.7	450.58	6773.69
452.58	6773.69	453.58	6773.72	454.01	6773.74	454.58	6773.75	455.58	6773.79
456.17	6773.8	456.58	6773.82	457.58	6773.84	458.2	6773.81	458.58	6773.8
459.58	6773.75	459.94	6773.74	460.22	6773.72	460.58	6773.71	460.93	6773.69
461.23	6773.71	461.58	6773.7	462.25	6773.7	462.58	6773.71	463.89	6773.79
464.88	6773.86	465.28	6773.88	465.87	6773.92	466.3	6773.87	466.58	6773.88
466.85	6773.87	467.84	6773.81	468.32	6773.79	468.83	6773.74	469.33	6773.73
469.58	6773.69	471.36	6773.46	471.79	6773.4	472.58	6773.3	473.38	6773.29
473.58	6773.28	474.4	6773.27	475.41	6773.24	475.75	6773.24	476.42	6773.22
476.73	6773.22	477.72	6773.19	478.58	6773.18	478.71	6773.17	479.7	6773.16
480.47	6773.14	480.69	6773.14	481.48	6773.08	482.66	6773.01	485.63	6772.8

486.55	6772.79	486.58	6772.78	487.6	6772.77	488.57	6772.75	490.57	6772.73
492.62	6772.75	494.52	6772.71	494.64	6772.7	495.51	6772.69	495.66	6772.68
496.49	6772.66	496.67	6772.66	497.48	6772.64	497.68	6772.63	499.71	6772.63
500.45	6772.62	500.72	6772.63	501.73	6772.63	502.74	6772.64	503.76	6772.67
504.4	6772.68	505.78	6772.71	506.58	6772.74	506.79	6772.74	507.58	6772.77
508.35	6772.77	509.34	6772.79	509.83	6772.78	510.33	6772.8	511.58	6772.77
512.3	6772.76	513.29	6772.76	513.58	6772.77	514.28	6772.78	514.89	6772.78
516.92	6772.81	517.58	6772.83	518.23	6772.84	518.58	6772.84	519.58	6772.86
519.96	6772.86	520.21	6772.87	520.97	6772.87	521.19	6772.86	522.99	6772.86
523.17	6772.85	523.58	6772.85	524.01	6772.84	524.58	6772.84	525.58	6772.82
526.13	6772.82	527.04	6772.8	527.58	6772.8	528.58	6772.78	529.1	6772.78
529.58	6772.77	530.08	6772.77	530.58	6772.76	531.09	6772.76	531.58	6772.75
532.11	6772.75	532.58	6772.74	533.58	6772.76	534.13	6772.78	535.03	6772.8
535.14	6772.83	535.58	6772.84	536.16	6772.88	536.28	6772.88		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	90.54	.04	325.81	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	90.54	325.81		263.61	263.61	263.61	.1 .3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5892.0

INPUT

Description:

Station Elevation Data		num= 490									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-208.55	6765.6	-207.9	6765.61	-202.9	6765.98	-199.21	6765.88	-199.13	6765.88		
-197.36	6766.01	-196.34	6766	-193.97	6765.95	-192.22	6765.92	-190.07	6765.92		
-185.19	6765.82	-182.27	6765.88	-181.29	6765.84	-180.32	6765.78	-178.88	6765.71		
-177.11	6765.66	-174.77	6765.66	-173.49	6765.64	-171.54	6765.59	-168.61	6765.53		
-167.64	6765.52	-166.11	6765.52	-165.11	6765.53	-164.71	6765.57	-164.5	6765.54		
-163.11	6765.66	-162.11	6765.76	-159.37	6765.76	-159.11	6765.77	-156.91	6765.79		
-154.23	6765.71	-152.11	6765.55	-149.1	6765.51	-144.24	6765.41	-143.96	6765.41		
-140.33	6765.3	-137.8	6765.21	-136.43	6765.17	-134.48	6765.14	-133.1	6765.13		
-131.56	6765.15	-129.61	6765.21	-128.63	6765.22	-128.56	6765.24	-126.51	6765.23		
-124.1	6765.16	-122.1	6765.12	-121.37	6765.13	-118.88	6765.13	-118.29	6765.14		
-116.24	6765.13	-116.09	6765.14	-113.16	6765.17	-112.05	6765.17	-110.08	6765.14		
-107.18	6765.11	-102.89	6765	-101.86	6764.99	-99.81	6765.01	-98.09	6765.04		
-96.73	6765.04	-92.62	6764.99	-91.09	6764.99	-90.6	6764.98	-87.49	6764.98		
-87.08	6764.97	-85.08	6765.05	-82.8	6765.12	-82.08	6765.15	-80.08	6765.1		
-76.95	6765.01	-75	6764.91	-74.02	6764.87	-72.09	6764.77	-70.08	6764.77		
-70.03	6764.76	-67.08	6764.76	-65.25	6764.69	-62.08	6764.58	-59.4	6764.69		
-57.07	6764.8	-56.07	6764.82	-52.07	6764.85	-51.55	6764.86	-48.47	6765.03		
-47.07	6765.12	-45.39	6765.15	-44.36	6765.18	-42.07	6765.23	-40.87	6765.24		
-37.17	6765.31	-35.02	6765.31	-34.09	6765.3	-32.04	6765.3	-29.16	6765.32		
-27.06	6765.32	-25.88	6765.25	-24.06	6765.18	-23.82	6765.18	-22.06	6765.11		
-20.74	6765.08	-19.41	6765.07	-17.06	6765.04	-16.64	6765.06	-15.06	6765.09		
-13.06	6765.09	-11.5	6765.1	-10.48	6765.09	-7.06	6765.01	-5.06	6765.01		
-4.79	6765	-1.86	6765	.82	6765.04	2.87	6765.1	5.72	6765.13		
7.95	6765.13	9.84	6765.09	10.95	6765.08	12.95	6765.08	15.19	6765.04		
16.22	6765.04	17.95	6765.02	19.59	6765.06	20.95	6765.07	22.52	6765.06		
27.95	6764.95	31.3	6764.95	32.27	6764.97	33.25	6764.96	34.22	6764.9		
36.17	6764.8	37.78	6764.74	38.81	6764.72	40.07	6764.68	40.87	6764.67		
42.92	6764.57	43.95	6764.61	45.92	6764.71	47.96	6764.79	51.13	6764.79		
52.96	6764.8	54.7	6764.83	55.96	6764.84	57.63	6764.87	58.96	6764.91		
59.58	6764.94	62.5	6765.04	64.45	6765.08	64.97	6765.08	66.54	6765.11		
67.97	6765.11	69.33	6765.08	70.3	6765.07	72.97	6765.02	73.97	6765.02		
76.8	6764.99	78.1	6764.99	79.88	6765.01	81.94	6765.02	82.98	6765.01		
84.93	6764.97	86.88	6764.94	88.1	6764.93	89.13	6764.96	90.15	6764.96		
92.73	6764.99	94.26	6765	95.98	6765	96.31	6765.01	97.98	6765.01		
100.42	6764.81	102.47	6764.63	102.48	6764.66	102.98	6764.62	105.98	6764.33		
107.98	6764.13	111.98	6764.13	112.74	6764.12	114.8	6763.99	117.98	6763.8		
119.93	6763.96	122.05	6764.12	122.96	6764.2	125.06	6764.2	125.89	6764.21		
128.15	6764.21	128.99	6764.19	130.2	6764.18	132.99	6764.13	133.99	6763.99		
135.33	6763.78	136.36	6763.63	137.99	6763.37	140.47	6763.27	140.52	6763.26		

142.47	6763.18	142.52	6763.01	142.99	6762.98	143.99	6762.61	144.99	6762.26
145.6	6761.98	146.37	6761.66	146.63	6762.58	146.99	6762.44	147.34	6762.95
147.66	6762.63	147.99	6763.12	152.22	6763.25	153.19	6763.29	153.82	6763.41
155.14	6763.54	158.07	6763.84	159.04	6763.93	160.82	6764.15	160.99	6764.18
163.06	6764.44	164.08	6764.6	168	6765.37	169.22	6765.14	169.77	6765.14
170	6765.09	171.27	6765.02	173	6764.91	174.35	6765.02	175	6765.05
176.6	6765.1	178	6765.16	178.46	6765.15	181.01	6765.14	183.01	6765.12
184.01	6764.98	185.65	6764.77	186.35	6764.67	188.3	6764.45	190.25	6764.29
191.81	6764.15	193.01	6764.03	194.15	6764.1	197.97	6764.31	200	6764.33
203.1	6764.3	204.88	6764.34	208.01	6764.43	210.29	6764.45	213.02	6764.37
215.43	6764.26	215.6	6764.29	216.02	6764.27	218.02	6764.3	220.02	6764.07
220.48	6764.05	220.56	6764.01	223.02	6763.92	226.02	6763.65	228.02	6763.42
229.8	6763.39	230.23	6763.36	230.83	6763.37	232.18	6763.25	232.25	6763.55
236.37	6762.92	237.26	6762.82	237.52	6762.76	241.46	6761.92	242.26	6761.8
246.53	6761.5	247.26	6761.39	249.9	6761.3	251.6	6761.25	252.26	6761.21
256.67	6761.44	257.26	6761.42	261.74	6761.78	262.26	6761.83	262.77	6761.8
267.27	6761.48	267.7	6761.47	272.27	6761.57	276.96	6761.64	277.27	6761.65
282.03	6762.46	282.27	6762.48	287.1	6763.54	287.27	6763.6	287.36	6762.28
288.04	6762.32	291.04	6762.97	291.3	6763.08	291.78	6763.14	293.04	6763.65
296.04	6764.27	296.23	6764.29	296.85	6764.44	298.04	6764.56	300.91	6764.24
301.17	6764.25	301.92	6764.13	303.14	6764.3	306.99	6764.6	308.01	6764.72
312.06	6765.82	313	6766.11	314.09	6766.36	314.98	6766.55	317.04	6767.01
318.15	6767.29	321.04	6767.89	322.2	6768.14	323.04	6768.34	326.26	6769.24
327.27	6769.53	327.8	6769.53	328.29	6769.62	329.77	6769.8	332.34	6770.1
333.04	6770.16	334.7	6770.15	337.41	6770.15	338.04	6770.13	340.62	6770.2
342.49	6770.24	342.6	6770.19	343.04	6770.2	345.53	6770.07	347.04	6769.98
347.53	6770	347.56	6769.96	348.04	6769.97	352.63	6769.41	358.04	6769.09
358.38	6769.09	358.71	6768.99	359.04	6768.98	359.73	6768.88	363.04	6768.36
363.31	6768.31	363.78	6768.29	364.04	6768.24	365.04	6768.15	366.82	6767.97
368.04	6767.86	370.88	6767.72	371.89	6767.66	372.19	6767.66	373.04	6767.61
375.15	6767.15	377.12	6766.73	377.98	6766.53	382.04	6766.15	383.04	6766.05
385.01	6765.89	386.09	6765.79	387.97	6765.64	389.95	6765.4	390.93	6765.29
393.05	6765.03	393.89	6765.12	395.22	6765.24	398.05	6765.52	399.81	6765.56
403.05	6765.66	405.36	6765.67	407.05	6765.69	408.05	6765.69	409.42	6765.99
412.05	6766.55	412.46	6766.55	412.63	6766.68	413.05	6766.68	413.47	6766.76
413.62	6766.71	414.05	6766.79	418.05	6767.03	419.05	6767.02	423.05	6766.94
423.61	6766.97	426.05	6767.22	426.45	6767.27	428.05	6767.43	428.42	6767.35
428.69	6767.39	429.4	6767.23	430.39	6767.03	433.05	6766.47	433.35	6766.44
433.76	6766.52	438.05	6766.22	438.28	6766.26	438.83	6766.24	443.22	6767.06
443.9	6767.22	445.93	6767.58	447.95	6767.95	448.97	6768.15	450.12	6768.36
453.02	6768.91	454.07	6769.02	456.04	6769.2	458.1	6769.4	459.11	6769.57
461.05	6769.8	461.14	6769.8	462.94	6770.01	464.18	6770.25	466.21	6770.52
468.05	6770.78	469.25	6770.78	472.05	6770.95	473.05	6771.02	474.32	6771.07
475.34	6771.09	477.74	6771.12	479.39	6771.15	479.71	6771.11	480.06	6771.12
481.42	6771.04	483.06	6770.96	485.06	6770.96	487.5	6770.99	489.53	6770.99
489.58	6770.95	490.06	6770.95	491.06	6770.88	493.06	6770.72	494.6	6770.66
497.06	6770.51	498.06	6770.44	499.67	6770.42	502.06	6770.49	503.06	6770.51
504.74	6770.51	508.06	6770.62	509.06	6770.61	509.31	6770.64	509.82	6770.6
513.06	6770.89	514.89	6770.97	515.9	6770.95	517.93	6770.89	519.96	6770.91
523.12	6770.81	524.1	6770.81	525.09	6770.79	526.98	6770.86	530.02	6770.95
530.1	6770.96	533.14	6771.09	535.17	6771.32	535.94	6771.35	536.93	6771.42
538.06	6771.48	540.24	6771.14	540.87	6771.16	541.06	6771.13	543.06	6771.09
543.83	6771.17	546.06	6771.37	549.06	6771.58	550.38	6771.68	550.73	6771.69
553.06	6771.82	555.46	6771.87	558.06	6771.98	560.53	6771.89	560.6	6771.93
561.06	6771.91	563.06	6771.98	565.6	6772.03	569.06	6772.21	569.47	6772.22
573.06	6772.4	575.74	6772.65	578.35	6772.83	579.06	6772.86	580.81	6772.96
583.07	6773.07	584.27	6773.06	586.07	6773.06	588.93	6773.11	591.07	6773.17
593.07	6773.19	596.1	6773.45	598.06	6773.54	601.1	6773.58	602.12	6773.64
603.99	6773.72	606.17	6773.8	606.95	6773.81	611.88	6773.96	612.66	6773.97

Manning's n Values			num=	3	
Sta	n Val	Sta	n Val	Sta	n Val
-208.55	.05	232.25	.04	287.27	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
232.25	287.27	142.82	142.83	142.82		.1	.3

CROSS SECTION

RIVER: Walton Creek

INPUT

Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-48.78	6764.31	-45.19	6764.05	-44.55	6764	-41.84	6763.95	-38.78	6763.95
-36.78	6763.92	-34	6763.92	-33.78	6763.93	-32.04	6763.83	-30.5	6763.76
-28.46	6763.68	-27.44	6763.67	-24.78	6763.59	-24.16	6763.56	-22.2	6763.53
-20.78	6763.53	-19.24	6763.55	-16.78	6763.6	-15.78	6763.61	-13.78	6763.57
-11.18	6763.43	-6.09	6763.28	-3.77	6763.28	-7.7	6763.4	1.42	6763.44
4.08	6763.37	6.11	6763.34	9.29	6763.35	11.26	6763.38	14.24	6763.33
16.18	6763.25	18.15	6763.19	19.13	6763.17	21.23	6763.06	25.43	6763.12
26.23	6763.14	28.48	6763.11	31.23	6763.11	31.53	6763.09	34.58	6762.97
35.86	6762.98	37.63	6762.98	37.83	6762.99	40.23	6762.99	41.23	6762.98
42.75	6762.93	46.23	6763.02	48.23	6763.12	51.23	6763.29	51.86	6763.28
54.91	6763.19	60.46	6763.19	61.23	6763.21	63.41	6763.12	65.08	6763.0
66.37	6763	70.17	6763.1	71.29	6763.1	73.25	6763.15	75.22	6763.21
76.27	6763.18	80.33	6762.86	82.37	6762.95	85.42	6763.1	86.43	6763.09
89.24	6763.03	90.24	6763.02	91.24	6762.99	93.55	6763.15	95.59	6763.28
95.89	6763.37	96.24	6763.4	100.24	6763.13	101.24	6763.09	103.76	6762.83
105.24	6762.69	105.73	6762.59	105.75	6762.63	106.24	6762.54	108.24	6762.39
109.66	6762.27	110.65	6762.22	111.24	6762.17	112.87	6762.19	113.6	6762.21
116.24	6762.25	121.24	6762.8	122.24	6762.77	125.07	6762.66	126.24	6762.63
128.36	6762.75	130.16	6762.86	130.33	6762.85	131.17	6762.91	133.28	6762.91
135.24	6762.93	136.26	6762.93	141.34	6763.03	144.1	6763.11	146.07	6763.16
146.42	6763.14	147.06	6763.21	147.25	6763.19	151.25	6763.41	151.51	6763.37
154.56	6763.16	156.25	6763.05	156.59	6763.04	156.9	6762.98	157.25	6762.98
158.63	6762.83	161.25	6762.56	161.68	6762.57	161.82	6762.53	162.25	6762.54
164.77	6762.42	166.74	6762.34	166.76	6762.36	170.83	6762.26	171.66	6762.23
171.84	6762.26	173.25	6762.21	174.61	6762.15	176.25	6762.09	177.56	6762.17
181.25	6762.43	182.01	6762.39	183.47	6762.43	184.25	6762.44	186.08	6762.49
186.42	6762.48	187.1	6762.4	191.16	6762.28	192.18	6762.2	196.25	6762.16
197.26	6762.05	199.3	6761.88	201.33	6761.72	202.35	6761.78	203.15	6761.72
204.38	6761.65	206.25	6761.52	210.48	6761.81	211.25	6761.87	212.52	6761.89
214.55	6761.85	215.57	6761.84	218.26	6761.76	221.26	6761.7	222.26	6761.56
222.68	6761.55	222.83	6761.49	223.26	6761.48	223.7	6761.03	223.81	6761.13
224.26	6760.68	224.72	6761.07	224.79	6760.78	225.26	6761.18	225.73	6761.33
225.78	6761.48	226.26	6761.63	227.26	6761.66	227.75	6761.72	227.77	6761.68
229.26	6761.86	231.26	6762.09	232.26	6762.05	232.67	6762.07	232.85	6762.03
233.65	6762.07	236.26	6762.17	237.93	6762.13	239.55	6762.12</		

542.69	6764.14	544.7	6764.25	546.28	6764.35	546.72	6764.4	546.85	6764.36
547.28	6764.41	551.28	6764.49	551.76	6764.46	553.28	6764.44	555.28	6764.4
556.28	6764.39	556.77	6764.36	556.8	6764.31	558.28	6764.22	560.28	6764.11
561.73	6764.05	562.28	6764.07	564.28	6764.06	566.28	6764.06	568.68	6764.16
571.29	6764.29	571.66	6764.28	571.91	6764.32	572.92	6764.3	576.29	6764.21
576.95	6764.15	581.29	6763.71	583.29	6763.93	583.57	6763.97	585.55	6764.19
586.02	6764.16	586.29	6764.19	587.03	6764.15	589.29	6763.97	591.29	6763.82
592.06	6763.91	595.07	6764.04	597.08	6764.15	601.47	6764.37	602.11	6764.36
604.45	6764.49	606.29	6764.58	606.44	6764.61	607.13	6764.63	609.14	6764.93
611.42	6765.26	612.41	6765.46	615.4	6765.97	616.18	6766.11	617.18	6766.51
619.38	6767.8	621.2	6768.88	621.37	6768.97	622.21	6769.51	625.22	6771.13
626.23	6771.66	627.23	6772.16	628.24	6772.52	631.25	6773.57	632.32	6773.69
633.31	6773.82	635.27	6774.05	636.27	6774.18	637.29	6774.25	640.28	6774.43
642.3	6774.56	643.26	6774.54	646.32	6774.51	647.29	6774.47	651.35	6774.47
652.35	6774.43	656.2	6774.51	657.2	6774.55	658.38	6774.52	661.4	6774.41
662.4	6774.4	663.17	6774.42	665.29	6774.45	665.42	6774.46	668.29	6774.49
669.44	6774.52	671.13	6774.55	675.11	6774.57	676.47	6774.61	679.29	6774.64
681.29	6774.65	682.5	6774.7	685.29	6774.73	686.29	6774.75	687.53	6774.66
689.54	6774.47	691.29	6774.32	692.55	6774.36	694.56	6774.47	696.01	6774.56
697.57	6774.6	701.29	6774.92	702.6	6775.09	702.97	6775.08	703.29	6775.12
706.29	6775.24	707.62	6775.31	707.95	6775.27	708.29	6775.29	711.29	6775.19
712.65	6775.04	712.92	6775.08	713.29	6775.04	716.91	6775.04	718.9	6775.07
721.29	6775.12	721.69	6775.11	724.29	6775.11	726.29	6775.13	727.72	6775.09
730.74	6775.21	731.74	6775.24	732.75	6775.25	734.82	6775.15	736.29	6775.07
737.77	6775.13	741.29	6775.2	743.8	6775.18	745.77	6775.15	747.82	6775.16
748.83	6775.19	751.29	6775.24	752.73	6775.25	755.72	6775.25	757.87	6775.31
761.29	6775.38	763.9	6775.64	765.29	6775.76	766.29	6775.83	768.29	6775.71
771.29	6775.56	772.94	6775.54	774.29	6775.55	776.62	6775.55	777.97	6775.56
780.98	6775.48	781.29	6775.48	783.58	6775.41	785	6775.39	786.01	6775.36
788.56	6775.37	790.55	6775.34	797.29	6775.34	798.51	6775.36	801.29	6775.46
803.09	6775.48	806.47	6775.48	808.12	6775.51	810.45	6775.57	812.14	6775.59
814.15	6775.6	816.29	6775.6	820.17	6775.68	821.4	6775.7	823.19	6775.75
826.37	6775.73	828.21	6775.77	830.29	6775.78	830.35	6775.79	832.68	6775.8

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-48.78	.05	391.67	.04	451.67	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	391.67	451.67		190.33 190.32	190.33		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 5209

INPUT

Description:

Station Elevation Data		num= 491									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-106.27	6762.24	-103.81	6761.73	-101.61	6761.89	-101.21	6761.89	-100.89	6761.73		
-99.03	6761.34	-98.82	6761.34	-98.26	6761.19	-97.79	6761.2	-96.32	6761.28		
-94.03	6761.42	-93.65	6761.47	-93.41	6761.46	-93.03	6761.51	-88.03	6762.03		
-87.03	6762.27	-83.73	6763.03	-83.31	6763.01	-83.02	6763.07	-80.82	6762.76		
-78.13	6762.39	-76.06	6762.36	-75.98	6762.35	-74.04	6762.33	-72.96	6762.46		
-69.2	6762.68	-67.26	6762.68	-66.29	6762.7	-65.01	6762.71	-64.68	6762.69		
-64.35	6762.72	-63.01	6762.62	-60.55	6762.57	-60.01	6762.55	-59.51	6762.57		
-59.51	6762.54	-58.01	6762.59	-56.41	6762.62	-53.3	6762.69	-49.82	6762.71		
-48.13	6762.69	-46.06	6762.65	-43.04	6762.61	-40.89	6762.63	-38.82	6762.66		
-37.23	6762.7	-35.29	6762.77	-33	6762.82	-31	6762.77	-29.51	6762.75		
-28.48	6762.75	-26.57	6762.71	-25.61	6762.68	-25.37	6762.7	-24.64	6762.69		
-22.99	6762.72	-19.79	6762.73	-16.99	6762.7	-15.92	6762.7	-13.99	6762.57		
-12.96	6762.51	-11.08	6762.21	-9.98	6762.2	-7.98	6762.2	-7.2	6762.08		
-4.68	6761.72	-2.61	6761.4	-2.36	6761.43	-.98	6761.24	-.54	6761.21		
-.42	6761.36	.02	6761.33	.49	6761.39	.55	6761.35	1.02	6761.42		
1.52	6761.44	1.53	6761.47	2.02	6761.5	4.02	6761.78	5.02	6761.93		
7.02	6762.21	8.3	6762.25	8.77	6762.33	10.24	6762.5	12.03	6762.74		
12.17	6762.75	18.08	6762.87	21.03	6762.69	22.83	6762.61	24.77	6762.67		
25.03	6762.67	27.39	6762.74	27.67	6762.73	30.49	6762.79	31.04	6762.81		
31.27	6762.78	34.1	6762.43	36.27	6762.27	39.1	6761.84	41.27	6761.39		

44.09	6761.05	46.27	6760.97	49.09	6760.71	51.27	6760.33	54.08	6759.93
56.27	6759.74	59.08	6759.86	61.27	6759.71	63.47	6759.74	66.27	6759.87
69.07	6759.97	71.27	6760.08	74.07	6760.15	76.27	6760.24	79.06	6760.71
81.27	6760.95	84.06	6761.43	86.27	6762.13	89.05	6762.43	91.27	6762.61
94.05	6762.35	96.27	6762.11	99.04	6762.27	101.27	6762.24	104.04	6762.32
106.27	6762.47	109.03	6762.44	111.27	6762.49	114.03	6762.44	116.27	6762.31
119.03	6762.36	121.27	6762.53	124.02	6762.63	126.27	6762.7	129.02	6762.74
131.27	6762.9	134.01	6763	136.27	6762.87	139.01	6762.68	141.27	6762.58
144	6762.75	146.27	6762.79	149	6762.78	151.27	6762.79	153.55	6762.67
156.27	6762.44	158.99	6762.66	161.27	6762.86	163.99	6762.88	166.27	6762.89
168.98	6762.88	171.27	6762.81	173.98	6762.76	176.27	6762.78	178.97	6762.79
181.27	6762.77	183.97	6762.84	186.27	6762.86	188.96	6763.04	191.27	6763.27
193.96	6763.18	196.27	6763.22	198.95	6763.12	201.27	6763.11	203.95	6763.26
206.27	6763.2	208.94	6763.21	211.27	6763.08	213.94	6763.21	216.27	6763.29
218.94	6763.3	221.27	6763.33	223.93	6763.32	226.27	6763.36	228.93	6763.08
231.27	6762.89	233.92	6762.9	236.27	6762.77	238.92	6763.12	241.27	6763.38
243.63	6763.29	246.27	6763.61	248.63	6763.84	251.27	6763.39	253.9	6762.91
256.27	6761.94	258.9	6761.53	261.27	6761.08	263.9	6760.33	266.27	6759.98
268.89	6759.87	271.27	6759.95	273.89	6759.99	276.27	6760.04	278.88	6760.01
281.27	6759.93	283.88	6760.29	286.27	6760.5	288.87	6760.6	291.27	6760.68
293.87	6760.58	296.27	6760.59	298.86	6760.5	301.27	6760.47	303.86	6760.59
306.27	6760.59	308.86	6760.83	311.27	6761.08	313.85	6761.32	316.27	6761.52
318.85	6761.31	326.27	6760.9	328.84	6760.76	331.27	6760.67	333.71	6760.75
336.27	6760.89	338.71	6760.89	341.27	6760.74	343.82	6760.88	346.27	6760.97
348.82	6761.16	351.27	6761.11	353.82	6761.15	356.27	6761.23	358.81	6761.3
361.27	6761.21	363.81	6760.96	366.27	6761.02	368.8	6761.36	371.27	6761.79
373.8	6762.62	376.27	6763.12	378.79	6763.39	381.27	6763.46	383.79	6763.58
386.27	6763.89	388.78	6763.94	391.27	6764.17	391.84	6763.67	392.85	6763.77
393.04	6763.77	395.23	6763.98	397.04	6764.14	398.85	6764.07	406.86	6763.83
407.86	6763.72	410.22	6763.4	412.86	6763.07	413.04	6763.07	415.87	6762.76
416.87	6762.64	417.21	6762.62	419.21	6762.61	422.04	6762.58	422.21	6762.61
422.87	6762.62	424.2	6762.7	425.87	6762.77	427.04	6762.83	431.04	6763.59
431.2	6763.6	431.88	6763.76	433.2	6763.78	434.88	6763.82	437.04	6763.85
438.19	6763.65	442.04	6762.94	444.89	6762.93	447.04	6762.91	447.89	6763.01
448.18	6763.02	451.9	6763.43	452.18	6763.45	454.18	6763.45	454.9	6763.44
459.17	6763.44	459.91	6763.45	462.04	6763.45	463.91	6763.59	466.17	6763.77
467.04	6763.83	469.16	6763.87	471.04	6763.92	471.92	6763.93	474.92	6763.89
476.16	6763.86	480.92	6763.81	482.15	6763.81	482.93	6763.73	483.04	6763.74
487.04	6763.42	488.93	6763.45	491.93	6763.48	497.04	6763.48	498.04	6763.46
502.14	6763.42	502.94	6763.4	506.13	6763.34	507.13	6763.31	509.95	6763.25
511.95	6763.2	514.04	6763.2	514.12	6763.21	517.04	6763.21	520.96	6763.36
521.96	6763.39	524.12	6763.53	526.97	6763.73	528.97	6763.67	529.97	6763.65
531.11	6763.61	532.11	6763.59	533.97	6763.45	537.1	6763.23	538.98	6763.27
539.98	6763.28	541.1	6763.31	542.1	6763.32	543.1	6763.3	545.1	6763.24
547.98	6763.18	548.04	6763.19	549.99	6763.17	550.04	6763.16	552.09	6763.14
555.99	6763.3	556.99	6763.35	558.09	6763.37	561.08	6763.4	562.08	6763.42
563.08	6763.37	566	6763.25	567	6763.2	572.07	6763.15	574.07	6763.3
575.01	6763.38	577.01	6763.53	580.01	6763.71	581.01	6763.76	582.04	6763.83
585.06	6763.84	587.06	6763.86	589.02	6763.82	590.06	6763.81	592.02	6763.77
594.03	6763.76	596.05	6763.76	597.05	6763.75	598.03	6763.76	601.05	6763.77
603.03	6763.79	606.04	6763.8	607.04	6763.81	609.04	6763.88	612.04	6763.97
612.04	6763.98	614.04	6763.88	615.04	6763.84	617.03	6763.74	618.05	6763.7
620.03	6763.6	622.05	6763.51	624.05	6763.38	627.01	6763.2	628	6763.26
631.98	6763.54	632.1	6763.56	633.11	6763.94	636.13	6765.05	637.04	6765.39
638.14	6765.83	639.15	6766.22	640.92	6766.92	641.16	6767.03	641.91	6767.31
643.17	6767.93	643.9	6768.27	646.88	6769.71	647.2	6769.83	650.86	6770.78
652.23	6771.13	655.04	6771.64	656.26	6771.87	656.82	6771.96	659.04	6772.44
661.79	6773.02	664.77	6773.5	665.76	6773.65	667.04	6773.87	669.34	6774.21
670.73	6774.43	671.35	6774.49	671.73	6774.58	672.04	6774.6	675.7	6774.51
676.39	6774.54	676.69	6774.49	678.68	6774.66	679.04	6774.7	681.04	6774.87
681.42	6774.87	681.66	6774.92	683.04	6774.96	685.04	6775.04	686.04	6775.07
687.04	6775.12	690.47	6775.12	691.6	6775.11	692.49	6775.13	695.04	6775.23
696.04	6775.26	696.51	6775.23	696.57	6775.28	697.04	6775.25	697.52	6775.28
697.56	6775.25	698.04	6775.27	701.54	6775.27	702.04	6775.26	703.04	6775.29
705.57	6775.39	707.04	6775.44	709.04	6775.34	710.6	6775.25	711.48	6775.21
711.61	6775.24	712.61	6775.19	714.46	6775.14	716.44	6775.07	721.41	6774.99
722.04	6774.94	723.68	6774.93	725.39	6774.93	727.04	6774.92	729.72	6774.95
731.35	6774.96	732.74	6775.02	734.75	6775.08	737.04	6775.16	740.29	6775.16
741.29	6775.15	741.8	6775.13	744.27	6775.17	746.04	6775.21	747.04	6775.21
748.24	6775.25	749.24	6775.27	752.22	6775.36	754.21	6775.37	755.89	6775.39
757.19	6775.39	758.91	6775.37	762.16	6775.35	766.13	6775.39	767.13	6775.38

767.96	6775.39	770.98	6775.39	771.99	6775.42	773.09	6775.43	776.07	6775.49
781.04	6775.39	787.09	6775.45	789.1	6775.59	791.97	6775.82	796.94	6775.93
798.16	6775.81	800.17	6775.57	802.04	6775.36	803.19	6775.46	804.19	6775.56
806.88	6775.8	807.04	6775.82	809.23	6775.83	812.04	6775.86	814.83	6775.71
815.04	6775.69	817.04	6775.59	818.28	6775.58	822.04	6775.58	824.76	6775.64
827.34	6775.68	828.74	6775.68	832.04	6775.7	834.04	6775.74	836.04	6775.77
837.04	6775.77	841.04	6775.83	842.04	6775.86	845.04	6775.88	846.46	6775.9
847.39	6775.9								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-106.27	.05	31.27	.04	391.27	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	31.27	391.27		949.69	949.69		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
391.27	847.39	6764.17	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4667

INPUT
 Description: Bottom Elevation Adjusted to Match Survey
 Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-569.86	6762.33	-566.12	6761.85	-564.99	6761.42	-562.16	6760.48	-561.27	6761.65
-560.48	6761.71	-560.34	6761.69	-559.11	6761.3	-555.87	6760.25	-555.8	6760.34
-554.86	6760.04	-552.32	6759.25	-551.55	6759.02	-550.32	6758.63	-550.18	6758.62
-545.5	6757.97	-544.3	6757.87	-543.63	6757.83	-540.82	6757.62	-540.29	6757.61
-539.68	6757.68	-538.01	6757.81	-535.37	6758.03	-534.13	6758.1	-530.52	6758.24
-530.27	6758.24	-528.65	6758.36	-527.71	6758.42	-526.73	6758.5	-525.25	6758.6
-523.5	6758.58	-520.26	6758.46	-519.29	6758.55	-518.1	6758.68	-517.42	6758.68
-517.02	6758.71	-515.55	6758.75	-513.78	6758.75	-513.67	6758.74	-511.8	6758.74
-511.62	6758.73	-510.22	6758.73	-508.99	6758.78	-508.06	6758.84	-507.31	6758.86
-505.25	6759.08	-504.07	6759.09	-502.99	6759.11	-502.2	6759.11	-501.19	6759.15
-498.7	6759.27	-497.18	6759.29	-496.52	6759.31	-495.18	6759.33	-494.36	6759.39
-493.28	6759.45	-491.21	6759.59	-490.16	6759.64	-485.72	6759.31	-485.59	6759.34
-485.15	6759.3	-481.14	6759.3	-480.91	6759.28	-480.33	6759.3	-479.98	6759.29
-477.09	6759.4	-475.3	6759.48	-473.85	6759.56	-470.11	6759.8	-468.46	6759.87
-465.22	6760.04	-464.14	6760.05	-462.19	6760.03	-460.9	6760.03	-460.09	6760.02
-458.75	6760.05	-458.08	6760.08	-455.08	6760.24	-451.89	6760.26	-451.19	6760.23
-450.02	6760.2	-448.06	6760.3	-445.8	6760.48	-445.05	6760.53	-443.05	6760.7
-442.56	6760.75	-442.53	6760.72	-442.04	6760.77	-440.04	6760.84	-439.04	6760.86
-437.85	6760.87	-437.16	6760.89	-435.31	6760.87	-433.93	6760.87	-433.17	6760.88
-431.77	6760.88	-430.01	6760.93	-428.01	6760.9	-426.62	6760.89	-425.68	6760.87
-425	6760.87	-424.21	6760.89	-420.98	6761.01	-419.13	6761.06	-418.82	6761.08
-417.26	6761.14	-415.98	6761.18	-414.98	6761.23	-413.97	6761.25	-410.97	6761.29
-410.71	6761.28	-408.03	6761.35	-404.79	6761.41	-402.28	6761.25	-401.35	6761.2
-399.94	6761.11	-396.67	6761.11	-396.15	6761.1	-394.8	6761.1	-393.86	6761.12
-390.12	6761.16	-388.6	6761.2	-386.91	6761.27	-384.9	6761.37	-383.2	6761.32
-381.69	6761.29	-379.82	6761.24	-377.95	6761.17	-375.14	6761.14	-374.2	6761.15
-372.33	6761.15	-371.87	6761.16	-369.86	6761.16	-368.1	6761.13	-367.02	6761.12
-365.78	6761.12	-364.86	6761.13	-362.03	6761.11	-360.54	6761.11	-359.84	6761.1
-357.83	6761.15	-357.35	6761.17	-356.42	6761.18	-356.23	6761.2	-354.82	6761.2
-354.07	6761.25	-352.99	6761.3	-350.61	6761.43	-349.75	6761.45	-348.67	6761.41
-347.81	6761.39	-346.8	6761.35	-343.8	6761.27	-342.2	6761.21	-339.79	6761.14
-337.88	6761.18	-336.5	6761.2	-334.89	6761.24	-333.02	6761.25	-329.76	6761.29
-329.27	6761.25	-329.25	6761.29	-328.34	6761.23	-326.01	6761.1	-324.59	6761.01
-323.85	6761.02	-322.77	6760.96	-320.85	6760.84	-319.53	6760.77	-316.17	6760.64
-314.72	6760.62	-314.14	6760.59	-311.98	6760.53	-310.55	6760.51	-309.62	6760.48
-307.66	6760.32	-306.81	6760.31	-305.87	6760.28	-304.43	6760.25	-303.7	6760.25
-302.69	6760.23	-301.69	6760.23	-299.69	6760.25	-297.95	6760.2	-294.71	6760.08
-294.67	6760.07	-291.83	6760.01	-289.32	6759.94	-288.24	6759.93	-286.65	6759.9
-279.61	6759.9	-277.45	6759.85	-275.29	6759.81	-274.05	6759.81	-271.24	6759.69
-269.61	6759.63	-268.81	6759.62	-264.5	6759.62	-263.75	6759.66	-263.42	6759.66
-261.88	6759.73	-261.26	6759.75	-259.59	6759.83	-259.1	6759.81	-257.2	6759.83
-256.94	6759.84	-254.57	6759.86	-253.57	6759.93	-252.63	6759.95	-251.55	6759.99

-249.71	6760.04	-248.31	6760.04	-244.55	6760.12	-243.54	6760.13	-241.28	6760.13
-240.76	6760.12	-239.41	6760.12	-237.53	6760.16	-235.67	6760.16	-234.52	6760.17
-232.12	6760.22	-231.51	6760.2	-229.51	6760.16	-227.24	6760.16	-225.37	6760.22
-224.44	6760.24	-221.33	6760.11	-220.69	6760.11	-219.76	6760.09	-218.48	6760.09
-216.48	6760.11	-215.47	6760.13	-214.47	6760.18	-212.27	6760.18	-210.39	6760.19
-209.46	6760.17	-207.59	6760.19	-206.22	6760.19	-205.71	6760.2	-204.06	6760.2
-201.44	6760.23	-200.44	6760.23	-199.16	6760.25	-198.67	6760.24	-197.29	6760.24
-196.51	6760.23	-194.35	6760.23	-191.11	6760.3	-188.96	6760.36	-185.72	6760.36
-184.4	6760.37	-182.48	6760.32	-180.32	6760.28	-179.24	6760.29	-177.09	6760.34
-174.82	6760.4	-173.85	6760.44	-172.95	6760.46	-172.77	6760.48	-169.53	6760.51
-167.34	6760.51	-164.35	6760.62	-162.66	6760.5	-161.72	6760.45	-160.9	6760.39
-159.33	6760.3	-158.91	6760.29	-157.33	6760.29	-156.58	6760.28	-154.32	6760.41
-150.11	6760.41	-149.55	6760.4	-145.79	6760.4	-144.87	6760.41	-143.63	6760.41
-143.29	6760.42	-140.39	6760.44	-139.26	6760.44	-135	6760.3	-133.64	6760.29
-130.26	6760.24	-129.6	6760.24	-127.44	6760.15	-124.28	6760	-122.41	6759.95
-122.05	6759.95	-119.89	6759.89	-118.23	6759.85	-114.92	6759.71	-114.22	6759.69
-111.26	6759.82	-109.21	6759.92	-108.02	6760.03	-107.43	6760.04	-106.2	6760.11
-104.19	6760.19	-103.19	6760.16	-102.75	6760.19	-102.62	6760.15	-101.54	6760.2
-100.18	6760.25	-99.94	6760.27	-98.07	6760.34	-93.39	6760.49	-92.45	6760.53
-91.83	6760.58	-91.52	6760.58	-89.67	6760.73	-89.16	6760.78	-86.44	6760.86
-85.36	6760.9	-84.03	6760.93	-81.22	6760.81	-81.04	6760.81	-79.13	6760.65
-75.64	6760.65	-75.6	6760.61	-75.12	6760.61	-73.49	6760.51	-71.11	6760.34
-70.92	6760.35	-70.25	6760.28	-69.05	6760.3	-65.31	6760.1	-64.85	6760.08
-64.37	6760.11	-63.09	6760.05	-62.09	6760.02	-61.61	6760	-60.08	6759.94
-59.08	6759.89	-58.38	6760.01	-56.88	6760.29	-55.15	6760.6	-54.08	6760.8
-49.78	6760.44	-49.06	6760.37	-48.71	6760.29	-48.42	6760.17	-48.06	6760.09
-46.55	6759.61	-45.97	6759.43	-44.05	6758.84	-42.79	6758.65	-42.04	6758.55
-40.12	6758.27	-39.04	6758.13	-38.09	6757.92	-37.15	6757.75	-36.03	6757.53
-34.03	6757.16	-33.47	6757.16	-31.53	6757.21	-29.38	6757.27	-29.01	6757.27
-27.23	6757.34	-26.01	6757.36	-23.94	6757.42	-20.97	6757.48	-20.24	6757.5
-19.3	6757.53	-16.49	6757.59	-13.98	6757.7	-11.12	6757.76	-8.95	6757.83
-7.09	6758.14	-5.96	6758.32	-3.96	6758.66	-1.95	6758.77	-.51	6758.83
1.05	6758.88	4.18	6759.35	4.99	6759.46	6.05	6759.67	9.29	6760.52
11.08	6760.98	13.08	6760.87	15.46	6760.72	16.09	6760.69	16.81	6760.75
19.09	6760.97	21.09	6761.15	22.97	6760.99	23.91	6760.9	25.11	6760.8
25.4	6760.8	25.79	6760.74	26.11	6760.74	28.11	6760.65	30.49	6760.55
30.77	6760.63	31.12	6760.61	32.37	6760.49	35.19	6760.2	36.14	6760.37
39.14	6760.63	39.36	6760.59	39.88	6760.7	41.14	6760.46	42.14	6760.51
44.58	6760.66	44.73	6760.63	45.15	6760.66	46.15	6760.66	47.16	6760.6
47.4	6760.62	47.95	6760.55	49.28	6760.67	51.03	6760.84	52.1	6760.89
53.97	6760.95	56.54	6761.28	58.67	6761.54	61.19	6761.93	63.37	6762.01
64.06	6762.22	64.19	6762.23	66.21	6762.75	67.28	6762.82	68.07	6762.89
71.21	6762.59	71.82	6762.51	72.65	6762.37	72.76	6762.38	74.22	6762.1
74.64	6762.01	76.22	6761.71	77.46	6761.82	78.03	6761.81	78.23	6761.83
81.25	6761.86	82.16	6761.83	83.1	6761.84	86.24	6761.9	89.67	6761.85
90.91	6761.84	92.49	6761.84	93.06	6761.83	96.28	6761.83	98.43	6761.89
99.51	6761.91	102.28	6761.98	103.76	6761.99	105.29	6761.99	106.29	6762
107.02	6762.02	111.01	6762.22	112.22	6762.26	114.31	6762.29	115.98	6762.32
117.31	6762.36	118.31	6762.4	120.32	6762.45	121.61	6762.49	123.13	6762.51
124.43	6762.55	126.36	6762.62	128.5	6762.65	131.01	6762.7	131.34	6762.7
133.35	6762.79	135.71	6762.91	136.35	6762.95	137.58	6762.96	143.22	6763.02
144.16	6763.04	146.38	6763.06	148.38	6763.13	150.39	6763.21	151.39	6763.27
152.62	6763.4	153.21	6763.45	155.43	6763.68	156.37	6763.83	158.25	6764.02
160.72	6764.28	161.41	6764.32	162.41	6764.48	164.42	6764.78	164.83	6764.85
166.42	6765.09	167.65	6765.34	168.24	6765.47	170.47	6765.92	171.47	6766.13
173.61	6766.71	176.44	6767.46	177.45	6767.77	179.86	6768.53	179.93	6768.53

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-569.86	.05	-46.55	.04	6.05	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	-46.55	6.05		112.11	112.11	.1	.3
Ineffective Flow			num=	1			
Sta L	Sta R	Elev	Permanent				
11.08	179.93	6761	F				

CROSS SECTION

RIVER: Walton Creek

Station Elevation Data				num= 328							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev		
-12.27	6760	-10.58	6760	-10.18	6760.05	-10.03	6760.04	-9.61	6760.04		
-9.26	6760.04	-8.91	6760.03	-8.6	6760.03	-8.35	6760.03	-7.8	6760.02		
-7.6	6760.02	-7.44	6760.02	-6.68	6760.01	-6.59	6760.01	-6.52	6760.01		
-5.81	6760.02	-5.61	6760.02	-5.59	6760.02	-5.56	6760.02	-4.69	6760.03		
-4.58	6760.03	-4.45	6760.02	-3.78	6760.02	-3.58	6760.02	-3.33	6760.02		
-2.87	6760.02	-2.57	6760.02	-2.22	6760.02	-1.95	6760.02	-1.57	6760.01		
-1.1	6760.02	-1.04	6760.03	-.56	6760.04	-.12	6760.05	.02	6760.05		
.44	6760.06	.79	6760.07	1.13	6760.07	1.45	6760.08	1.7	6760.08		
2.25	6760.09	2.45	6760.1	2.62	6760.1	3.36	6760.11	3.46	6760.11		
3.53	6760.11	4.3	6760.11	4.45	6760.1	4.46	6760.1	4.48	6760.1		

5.36	6760.09	5.47	6760.09	5.59	6760.09	6.27	6760.08	6.47	6760.08
6.71	6760.08	7.19	6760.06	7.48	6760.06	7.83	6760.05	8.09	6760.05
8.42	6760.03	9.66	6760.07	9.8	6760.07	12.71	6760.01	13.17	6760.02
15.76	6760.07	16.53	6760.05	18.81	6760.01	19.91	6760.03	21.85	6760.01
23.47	6760.07	24.91	6760.11	26.64	6760.08	27.95	6760.04	30.01	6759.97
31	6759.94	33.38	6759.83	34.04	6759.82	36.75	6759.66	37.09	6759.63
40.12	6759.47	40.32	6759.47	42.94	6759.4	43.19	6759.4	43.49	6759.41
46.23	6759.46	46.86	6759.45	49.28	6759.38	50.23	6759.42	52.33	6759.48
54.07	6759.44	55.38	6759.4	56.84	6759.4	58.43	6759.41	58.74	6759.42
60.14	6759.46	63.27	6759.51	64.55	6759.52	68.32	6759.53	68.95	6759.54
73.19	6759.6	73.38	6759.61	73.41	6759.61	78.43	6759.62	79.34	6759.63
83.49	6759.63	85.27	6759.61	88.54	6759.64	91.2	6759.61	93.59	6759.56
97.13	6759.58	98.65	6759.55	103.06	6759.57	103.7	6759.57	107.43	6759.64
108.69	6759.74	108.76	6759.75	111.26	6759.54	111.28	6759.55	111.37	6759.55
113.73	6760	113.81	6760.01	114.92	6760.06	118.8	6760.3	118.87	6760.3
120.84	6759.55	123.92	6759.67	126.77	6759.79	128.97	6759.81	130.61	6759.8
134.03	6759.75	138.63	6759.67	139.08	6759.66	141.68	6759.72	144.03	6760
144.14	6759.99	144.56	6759.99	149.17	6760.09	149.19	6760.09	150.49	6759.48
154.24	6759.57	156.42	6759.66	159.3	6759.73	162.35	6759.73	164.35	6759.72
168.28	6759.86	169.41	6759.9	174.21	6759.83	174.46	6759.82	175.93	6759.78
179.52	6759.67	180.14	6759.67	184.57	6759.69	186.07	6759.71	189.62	6759.79
191.99	6759.77	194.61	6759.76	194.68	6759.76	197.31	6759.71	199.68	6759.69
202.14	6759.75	204.68	6759.77	206.97	6759.71	209.69	6759.6	211.8	6759.56
214.69	6759.57	216.63	6759.63	219.69	6759.72	221.46	6759.7	224.7	6759.73
226.29	6759.74	229.7	6759.73	231.13	6759.7	234.7	6759.58	235.96	6759.48
239.71	6759.25	240.17	6760.01	240.79	6760.43	242.22	6761.42	243.87	6762.56
244.01	6762.55	244.29	6762.55	244.51	6762.54	250	6762.7	259.97	6762.55
266.57	6762.45	267.06	6762.43	267.97	6762.39	269.12	6762.39	270.72	6762.27
276.21	6762.08	284.03	6761.61	287.37	6761.3	290.81	6761.13	295.88	6760.67
305.97	6759.49	305.98	6759.49	306.11	6759.47	306.63	6759.42	308.42	6759.51
308.64	6759.52	308.65	6759.52	309.18	6759.57	309.75	6759.58	311.18	6759.52
314.75	6759.17	318.08	6759	319.76	6758.9	322.91	6758.73	324.76	6758.56
327.74	6758.42	329.76	6758.34	332.57	6758.26	334.77	6758.36	337.4	6758.51
339.77	6758.57	342.24	6758.67	344.77	6758.78	347.07	6758.83	349.78	6758.73
351.9	6758.54	354.78	6758.23	356.73	6758.09	359.78	6758.06	361.56	6758.05
364.79	6758.32	366.39	6758.35	369.79	6758.3	371.22	6758.33	374.79	6758.27
376.05	6758.35	379.8	6758.52	380.88	6758.63	384.8	6759.08	385.71	6759.18
387.17	6759.26	389.8	6759.4	390.71	6759.43	394.8	6759.63	395.77	6759.67
399.8	6759.69	403.74	6759.46	404.8	6759.35	406.99	6759.19	408.68	6759.06
409.53	6758.94	409.85	6758.6	409.97	6758.54	411.98	6757.46	414.14	6755.11
422.96	6754.59	431.87	6754.54	437.4	6754.94	443.92	6755.42	447.18	6756.34
448.79	6757.16	449.24	6757.68	449.26	6757.7	449.8	6757.84	451.45	6758.02
454.81	6758.52	456.51	6758.64	458.12	6758.82	459.81	6759.01	461.58	6759.05
464.81	6759.15	466.64	6759.25	469.81	6759.33	471.7	6759.27	474.81	6759.33
476.76	6759.23	479.81	6759.07	481.82	6758.94	484.81	6758.74	486.89	6758.55
489.81	6758.33	492.66	6758.36	494.81	6758.41	497.01	6758.65	499.81	6758.81
502.07	6758.89	504.81	6758.96	507.14	6758.94	509.81	6758.95	512.2	6759.03
514.81	6759.1	517.26	6758.94	519.81	6758.89	522.32	6758.91	524.81	6758.93
527.38	6758.91	529.81	6758.81	532.45	6758.88	534.81	6758.99	537.51	6759.06
539.81	6759.21	542.57	6759.4	544.81	6759.5	547.63	6759.59	549.81	6759.61
552.69	6759.52	554.81	6759.51	554.88	6759.51	557.63	6759.42	559.82	6759.27
559.97	6759.26	562.47	6759.05	564.82	6758.82	567.31	6758.82	569.82	6758.9
572.15	6759.04	574.82	6759.25	576.99	6759.31	579.83	6759.46	582.86	6759.58
584.83	6759.61	586.67	6759.66	589.83	6759.74	591.51	6759.73	594.84	6759.86
595.57	6759.96	595.57	6760.18	598.18	6760.47	598.96	6760.51	598.96	6761.36
601.13	6761.81	603.52	6761.8	649.96	6760.69				

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
-12.27	.05	406.99	.04
458.12	.05		

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	406.99	458.12		84.42	84.42	84.42		.3	.5
Ineffective Flow	num= 2								
Sta L	Sta R	Elev	Permanent						
6.4	419.34	6762	F						
596.84	648.27	6762	F						

BRIDGE

RIVER: Walton Creek
REACH: lower-main split RS: 4220.82

INPUT

Description: Future Stone Lane
Distance from Upstream XS = 19.5
Deck/Roadway Width = 45
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 15

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
-9.49	6762.75		5.64	6762.69		30.64	6762.44	
55.64	6762.19		80.64	6762		155.52	6761.99	
205.51	6761.96		239.23	6762		330.6	6763.52	
354.23	6764		387.67	6764.35		419.34	6764.44	6760.92
575	6764.86	6760.92	729.34	6764.44	6760.92	765	6764.35	

Upstream Bridge Cross Section Data

Station	Elevation	Data	num=	328					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-12.27	6760	-10.58	6760	-10.18	6760.05	-10.03	6760.04	-9.61	6760.04
-9.26	6760.04	-8.91	6760.03	-8.6	6760.03	-8.35	6760.03	-7.8	6760.02
-7.6	6760.02	-7.44	6760.02	-6.68	6760.01	-6.59	6760.01	-6.52	6760.01
-5.81	6760.02	-5.61	6760.02	-5.59	6760.02	-5.56	6760.02	-4.69	6760.03
-4.58	6760.03	-4.45	6760.03	-3.78	6760.02	-3.58	6760.02	-3.33	6760.02
-2.87	6760.02	-2.57	6760.02	-2.22	6760.02	-1.95	6760.02	-1.57	6760.01
-1.1	6760.02	-1.04	6760.03	-.56	6760.04	-.12	6760.05	.02	6760.05
.44	6760.06	.79	6760.07	1.13	6760.07	1.45	6760.08	1.7	6760.08
2.25	6760.09	2.45	6760.1	2.62	6760.1	3.36	6760.11	3.46	6760.11
3.53	6760.11	4.3	6760.11	4.45	6760.1	4.46	6760.1	4.48	6760.1
5.36	6760.09	5.47	6760.09	5.59	6760.09	6.27	6760.08	6.47	6760.08
6.71	6760.08	7.19	6760.06	7.48	6760.06	7.83	6760.05	8.09	6760.05
8.42	6760.03	9.66	6760.07	9.8	6760.07	12.71	6760.01	13.17	6760.02
15.76	6760.07	16.53	6760.05	18.81	6760.01	19.91	6760.03	21.85	6760.01
23.47	6760.07	24.91	6760.11	26.64	6760.08	27.95	6760.04	30.01	6759.97
31	6759.94	33.38	6759.83	34.04	6759.82	36.75	6759.66	37.09	6759.63
40.12	6759.47	40.32	6759.47	42.94	6759.4	43.19	6759.4	43.49	6759.41
46.23	6759.46	46.86	6759.45	49.28	6759.38	50.23	6759.42	52.33	6759.48
54.07	6759.44	55.38	6759.4	56.84	6759.4	58.43	6759.41	58.74	6759.42
60.14	6759.46	63.27	6759.51	64.55	6759.52	68.32	6759.53	68.95	6759.54
73.19	6759.6	73.38	6759.61	73.41	6759.61	78.43	6759.62	79.34	6759.63
83.49	6759.63	85.27	6759.61	88.54	6759.64	91.2	6759.61	93.59	6759.56
97.13	6759.58	98.65	6759.55	103.06	6759.57	103.7	6759.57	107.43	6759.64
108.69	6759.74	108.76	6759.75	111.26	6759.54	111.28	6759.55	111.37	6759.55
113.73	6760	113.81	6760.01	114.92	6760.06	118.8	6760.3	118.87	6760.3
120.84	6759.55	123.92	6759.67	126.77	6759.79	128.97	6759.81	130.61	6759.8
134.03	6759.75	138.63	6759.67	139.08	6759.66	141.68	6759.72	144.03	6760
144.14	6759.99	144.56	6759.99	149.17	6760.09	149.19	6760.09	150.49	6759.48
154.24	6759.57	156.42	6759.66	159.3	6759.73	162.35	6759.73	164.35	6759.72
168.28	6759.86	169.41	6759.9	174.21	6759.83	174.46	6759.82	175.93	6759.78
179.52	6759.67	180.14	6759.67	184.57	6759.69	186.07	6759.71	189.62	6759.79
191.99	6759.77	194.61	6759.76	194.68	6759.76	197.31	6759.71	199.68	6759.69
202.14	6759.75	204.68	6759.77	206.97	6759.71	209.69	6759.6	211.8	6759.56
214.69	6759.57	216.63	6759.63	219.69	6759.72	221.46	6759.7	224.7	6759.73
226.29	6759.74	229.7	6759.73	231.13	6759.7	234.7	6759.58	235.96	6759.48
239.71	6759.25	240.17	6760.01	240.79	6760.43	242.22	6761.42	243.87	6762.56
244.01	6762.55	244.29	6762.55	244.51	6762.54	250	6762.7	259.97	6762.55
266.57	6762.45	267.06	6762.43	267.97	6762.39	269.12	6762.39	270.72	6762.27
276.21	6762.08	284.03	6761.61	287.37	6761.3	290.81	6761.13	295.88	6760.67
305.97	6759.49	305.98	6759.49	306.11	6759.47	306.63	6759.42	308.42	6759.51
308.64	6759.52	308.65	6759.52	309.18	6759.57	309.75	6759.58	311.18	6759.52
314.75	6759.17	318.08	6759	319.76	6758.9	322.91	6758.73	324.76	6758.56
327.74	6758.42	329.76	6758.34	332.57	6758.26	334.77	6758.36	337.4	6758.51
339.77	6758.57	342.24	6758.67	344.77	6758.78	347.07	6758.83	349.78	6758.73
351.9	6758.54	354.78	6758.23	356.73	6758.09	359.78	6758.06	361.56	6758.05
364.79	6758.32	366.39	6758.35	369.79	6758.3	371.22	6758.33	374.79	6758.27
376.05	6758.35	379.8	6758.52	380.88	6758.63	384.8	6759.08	385.71	6759.18
387.17	6759.26	389.8	6759.4	390.71	6759.43	394.8	6759.63	395.77	6759.67
399.8	6759.69	403.74	6759.46	404.8	6759.35	406.99	6759.19	408.68	6759.06
409.53	6758.94	409.85	6758.6	409.97	6758.54	411.98	6757.46	414.14	6755.11
422.96	6754.59	431.87	6754.54	437.4	6754.94	443.92	6755.42	447.18	6756.34

448.79	6757.16	449.24	6757.68	449.26	6757.7	449.8	6757.84	451.45	6758.02
454.81	6758.52	456.51	6758.64	458.12	6758.82	459.81	6759.01	461.58	6759.05
464.81	6759.15	466.64	6759.25	469.81	6759.33	471.7	6759.27	474.81	6759.33
476.76	6759.23	479.81	6759.07	481.82	6758.94	484.81	6758.74	486.89	6758.55
489.81	6758.33	492.66	6758.36	494.81	6758.41	497.01	6758.65	499.81	6758.81
502.07	6758.89	504.81	6758.96	507.14	6758.94	509.81	6758.95	512.2	6759.03
514.81	6759.1	517.26	6758.94	519.81	6758.89	522.32	6758.91	524.81	6758.93
527.38	6758.91	529.81	6758.81	532.45	6758.88	534.81	6758.99	537.51	6759.06
539.81	6759.21	542.57	6759.4	544.81	6759.5	547.63	6759.59	549.81	6759.61
552.69	6759.52	554.81	6759.51	554.88	6759.51	557.63	6759.42	559.82	6759.27
559.97	6759.26	562.47	6759.05	564.82	6758.82	567.31	6758.82	569.82	6758.9
572.15	6759.04	574.82	6759.25	576.99	6759.31	579.83	6759.46	582.86	6759.58
584.83	6759.61	586.67	6759.66	589.83	6759.74	591.51	6759.73	594.84	6759.86
595.57	6759.96	595.57	6760.18	598.18	6760.47	598.96	6760.51	598.96	6761.36
601.13	6761.81	603.52	6761.8	649.96	6760.69				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-12.27	.05	406.99	.04	458.12	.05

Bank Sta: Left Right Coeff Contr. Expan.

406.99	458.12		.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
6.4	419.34	6762	F
596.84	648.27	6762	F

Downstream Deck/Roadway Coordinates

num= 15											
Sta	Hi	Cord	Lo Cord	Sta	Hi	Cord	Lo Cord	Sta	Hi	Cord	Lo Cord
-9.49	6762.75			5.64	6762.69			30.64	6762.44		
55.64	6762.19			80.64	6762			155.52	6761.99		
205.51	6761.96			239.23	6762			330.6	6763.52		
354.23	6764			387.67	6764.35			419.34	6764.44	6760.92	
575	6764.86	6760.92		729.34	6764.44	6760.92		765	6764.35		

Downstream Bridge Cross Section Data

Station Elevation Data num= 490									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
158.02	6762.38	164.04	6762.38	165.56	6762.36	168.94	6762.34	170.63	6762.3
172.01	6762.28	174.11	6762.23	175.07	6762.22	176.69	6762.18	177.12	6762.18
178.14	6762.15	181.62	6762.09	182.22	6762.07	183.15	6762.06	186.31	6761.99
186.69	6761.99	189.22	6761.93	189.6	6761.93	191.76	6761.88	192.19	6761.88
194.77	6761.82	195.14	6761.82	198.29	6761.75	200.21	6761.72	201.9	6761.68
203.59	6761.65	206.97	6761.65	209.81	6761.68	210.83	6761.68	213.89	6761.71
214.91	6761.71	216.72	6761.73	217.86	6761.73	217.96	6761.74	219	6761.74
219.3	6761.75	220.49	6761.75	220.59	6761.76	221.88	6761.76	222.06	6761.77
223.17	6761.77	224.46	6761.78	224.72	6761.79	225.76	6761.79	226.15	6761.8
227.25	6761.8	228.34	6761.82	229.79	6761.83	230.64	6761.85	232.21	6761.87
233.09	6761.89	235.95	6761.93	238.53	6761.93	239.4	6761.92	240.63	6761.93
241.43	6761.95	243.11	6761.95	243.7	6761.96	244.57	6761.95	246.29	6761.99
247.52	6761.98	248.01	6761.99	249.56	6761.99	249.74	6762	250.75	6761.99
251.46	6762.01	253.01	6762.02	254.04	6762.04	254.24	6762.03	255.65	6762.03
255.77	6762.04	256.72	6762.03	257.49	6762.05	259.19	6762.06	259.21	6762.08
260.08	6762.07	260.94	6762.08	262.1	6762.07	263.52	6762.09	264.79	6762.1
265.25	6762.14	265.38	6762.11	266.11	6762.12	269.09	6762.12	270.33	6762.13
271.28	6762.18	271.57	6762.15	272.14	6762.16	274.04	6762.16	274.72	6762.17
275.97	6762.17	276.52	6762.18	277.31	6762.22	277.75	6762.2	280.03	6762.2
280.23	6762.21	281.47	6762.21	282.48	6762.24	282.7	6762.22	283.34	6762.25
283.94	6762.24	285.18	6762.24	288.16	6762.26	288.51	6762.28	288.89	6762.27
289.37	6762.29	291.1	6762.28	291.21	6762.29	292.6	6762.3	293.84	6762.3
294.54	6762.32	295.08	6762.31	295.4	6762.33	296.15	6762.32	300.57	6762.36
301.83	6762.36	303.4	6762.38	304.41	6762.38	306.21	6762.4	307.5	6762.4
310.51	6762.43	311.52	6762.43	313.18	6762.45	314.36	6762.45	314.57	6762.46
316.95	6762.47	318.59	6762.49	319.83	6762.49	321.25	6762.5	322.7	6762.52
323.84	6762.52	326.76	6762.55	329.72	6762.57	330.83	6762.57	330.96	6762.58
332.2	6762.58	332.46	6762.59	334.89	6762.6	337.94	6762.63	341.56	6762.65
341.93	6762.66	343.02	6762.66	343.34	6762.67	344.52	6762.67	344.57	6762.68
345.81	6762.68	346.07	6762.69	347.23	6762.69	350.13	6762.72	351.14	6762.72
352.91	6762.74	354.19	6762.74	354.47	6762.75	355.72	6762.75	356.95	6762.77
358.26	6762.77	358.31	6762.78	360.89	6762.78	361.3	6762.79	362.61	6762.79

363.13	6762.8	364.26	6762.8	364.34	6762.81	366.92	6762.81	367.4	6762.82
369.51	6762.82	369.93	6762.83	372.48	6762.83	372.95	6762.84	374.68	6762.84
375.51	6762.85	377.56	6762.85	377.98	6762.86	383.29	6762.86	384.67	6762.85
385.68	6762.86	386.64	6762.89	387.23	6762.9	393.58	6762.96	393.71	6762.97
396.71	6763	397.53	6763.03	398.91	6763.1	399.5	6763.12	401.48	6763.22
402.71	6763.27	403.45	6763.03	403.71	6762.93	403.98	6762.95	404.99	6762.98
406.01	6762.99	406.71	6763.01	409.05	6763.04	409.71	6763.06	411.35	6763.08
412.09	6763.1	413.1	6763.11	414.71	6763.14	416.28	6763.15	417.15	6763.17
418.71	6763.23	420.23	6763.3	421.22	6763.28	424.18	6763.16	425.17	6763.13
425.71	6763.1	426.71	6763.07	427.29	6763.04	428.71	6762.99	429.11	6762.99
429.71	6762.96	431.09	6763	431.34	6762.95	431.71	6762.96	432.71	6762.92
433.71	6762.97	434.05	6762.95	434.38	6763	434.71	6762.98	435.39	6762.9
437.71	6762.58	438.43	6762.54	440.71	6762.45	441.47	6762.37	442.49	6762.23
443.5	6762.06	444.91	6761.79	446.88	6761.43	448.86	6761.15	449.84	6761
452.62	6760.61	454.65	6760.32	455.66	6760.17	456.68	6760.03	458.7	6759.73
459.71	6759.59	460.7	6759.35	461.69	6759.21	462.76	6759.25	464.65	6759.35
466.81	6759.44	468.6	6759.46	469.85	6759.45	470.86	6759.43	473.72	6759.4
474.72	6759.36	475.93	6759.3	476.94	6759.26	477.96	6759.23	481.72	6759.15
484.04	6759.14	484.39	6759.1	484.72	6759.1	485.38	6759.05	486.72	6758.97
488.09	6758.93	489.1	6758.89	489.33	6758.86	490.12	6758.83	491.72	6758.72
493.16	6758.55	494.17	6758.42	494.26	6758.42	495.72	6758.27	496.72	6758.16
498.21	6757.95	498.72	6757.87	499.2	6757.83	499.24	6757.8	501.72	6757.57
503.15	6757.47	503.29	6757.45	504.31	6757.38	506.72	6757.19	508.08	6757.25
509.07	6757.28	509.37	6757.23	509.72	6757.25	510.72	6757.19	512.03	6757.13
513.02	6757.12	514.44	6757.09	516.47	6757.1	518.94	6757.22	519.51	6757.26
520.52	6757.29	521.72	6757.34	522.89	6757.31	524.86	6757.28	527.61	6757.31
528.63	6757.33	528.81	6757.32	529.64	6757.34	531.77	6757.27	532.76	6757.33
533.69	6757.37	534.71	6757.43	536.73	6757.39	538.68	6757.27	539.77	6757.19
541.65	6757.09	543.72	6756.89	544.84	6756.79	546.72	6756.78	549.91	6756.64
551.72	6756.64	551.94	6756.63	553.72	6756.63	554.72	6756.61	555.46	6756.61
556.72	6756.59	557.44	6756.65	560.04	6756.89	560.4	6756.84	560.72	6756.87
561.72	6756.85	562.72	6756.78	564.1	6756.7	565.11	6756.63	565.34	6756.67
565.72	6756.65	566.12	6756.72	566.32	6756.85	566.72	6756.92	567.14	6756.85
567.31	6756.51	567.72	6756.44	568.15	6756.25	568.3	6756.29	568.72	6756.09
569.16	6755.99	569.28	6755.99	569.72	6755.88	570.18	6755.81	572.84	6755.37
573.23	6755.3	576.26	6754.81	577.18	6754.65	579.16	6754.33	579.73	6754.23
581.13	6754.05	582.34	6753.93	582.73	6753.88	583.1	6753.88	583.35	6753.82
583.73	6753.81	584.09	6753.86	584.36	6753.83	585.08	6753.91	585.38	6753.96
587.05	6754.11	587.73	6754.16	588.42	6754.23	589.43	6754.31	590.01	6754.37
592.73	6754.6	596.53	6754.94	597.84	6755.06	598.73	6755.14	600.58	6755.54
601.73	6755.8	601.86	6755.84	603.83	6756.34	604.82	6756.6	606.79	6757.1
607.67	6757.33	608.77	6757.65	609.7	6758.06	610.71	6758.12	611.73	6758.13
615.68	6757.89	616.79	6757.85	618.64	6757.83	618.73	6757.82	620.85	6757.8
621.6	6757.71	621.86	6757.7	624.56	6757.65	625.73	6757.62	629.5	6757.62
629.73	6757.63	630.98	6757.63	631.47	6757.69	631.73	6757.69	633.01	6757.77
635.42	6757.94	636.05	6757.98	637.06	6758.08	638.73	6758.23	639.73	6758.33
640.36	6758.38	641.12	6758.46	641.34	6758.45	642.13	6758.49	642.33	6758.47
644.16	6758.5	644.73	6758.5	646.73	6758.53	649.73	6758.53	650.23	6758.54
651.73	6758.54	653.19	6758.5	654.18	6758.46	654.73	6758.45	655.73	6758.41
656.73	6758.39	658.34	6758.44	660.37	6758.52	661.73	6758.56	663.06	6758.56
663.41	6758.55	664.73	6758.55	665.73	6758.54	666.02	6758.52	666.45	6758.54
666.73	6758.52	668.73	6758.57	669.97	6758.59	671.73	6758.64	672.93	6758.64
674.56	6758.66	676.73	6758.67	678.85	6758.47	680.64	6758.29	681.81	6758.19
684.69	6758.13	684.78	6758.12	686.75	6758.08	687.93	6757.95	688.75	6757.85
690.77	6757.62	691.79	6757.51	696.85	6757.31	697.87	6757.33	699.89	6757.39
700.57	6757.4	701.92	6757.44	704.96	6757.51	706.74	6757.56	707.48	6757.49
708	6757.46	709.01	6757.38	709.74	6757.31	711.74	6757.14	712.05	6757.1
715.23	6756.81	715.24	6756.81	716.74	6756.68	719.93	6756.68	720.58	6756.69
721.74	6756.69	721.86	6756.7	723.69	6757.1	724.73	6757.32	725.15	6757.42
726.69	6757.75	727.84	6758.02	728.62	6758.19	729.75	6758.45	730.96	6758.74
731.75	6758.92	732	6758.95	732.48	6759.05	732.75	6759.08	735.38	6759.54
736.75	6759.79	738.23	6759.78	741.17	6759.78	741.34	6759.86	741.75	6759.86
744.45	6760.64	744.76	6760.72	746	6761.08	746.53	6761.05	746.76	6761.12
747.93	6761.22	751.8	6761.58	756.76	6761.84	756.91	6761.81	758.56	6761.56
759.52	6761.4	760.03	6761.36	760.49	6761.25	761.77	6761.21	763.14	6760.9
764.77	6760.54	765.22	6760.52	765.32	6760.42	766.77	6760.35	768.69	6760.33

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
158.02	.05	567.31	.04	604.82	.05

Bank Sta: Left Right Coeff Contr. Expan.
567.31 604.82 .3 .5

Ineffective Flow num= 2
Sta L Sta R Elev Permanent
164.02 419.34 6762 F
729.34 768.69 6762 F

Upstream Embankment side slope = 1 horiz. to 1.0 vertical
Downstream Embankment side slope = 1 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins = 6762
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 5

Pier Data

Pier Station Upstream= 469.34 Downstream= 469.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Pier Data

Pier Station Upstream= 519.34 Downstream= 519.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Pier Data

Pier Station Upstream= 579.34 Downstream= 579.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Pier Data

Pier Station Upstream= 629.34 Downstream= 629.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Pier Data

Pier Station Upstream= 679.34 Downstream= 679.34
Upstream num= 2
Width Elev Width Elev
3 6756 3 6760.92
Downstream num= 2
Width Elev Width Elev
3 6756 3 6760.92

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy
Momentum Cd = 1.2
Selected Low Flow Methods = Energy

High Flow Method

Energy Only

Additional Bridge Parameters

Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 4178.71

INPUT

Description: Bridge Cross Section 2

Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
158.02	6762.38	164.04	6762.38	165.56	6762.36	168.94	6762.34	170.63	6762.3
172.01	6762.28	174.11	6762.23	175.07	6762.22	176.69	6762.18	177.12	6762.18
178.14	6762.15	181.62	6762.09	182.22	6762.07	183.15	6762.06	186.31	6761.99
186.69	6761.99	189.22	6761.93	189.6	6761.93	191.76	6761.88	192.19	6761.88
194.77	6761.82	195.14	6761.82	198.29	6761.75	200.21	6761.72	201.9	6761.68
203.59	6761.65	206.97	6761.65	209.81	6761.68	210.83	6761.68	213.89	6761.71
214.91	6761.71	216.72	6761.73	217.86	6761.73	217.96	6761.74	219	6761.74
219.3	6761.75	220.49	6761.75	220.59	6761.76	221.88	6761.76	222.06	6761.77
223.17	6761.77	224.46	6761.78	224.72	6761.79	225.76	6761.79	226.15	6761.8
227.25	6761.8	228.34	6761.82	229.79	6761.83	230.64	6761.85	232.21	6761.87
233.09	6761.89	235.95	6761.93	238.53	6761.93	239.4	6761.92	240.63	6761.93
241.43	6761.95	243.11	6761.95	243.7	6761.96	244.57	6761.95	246.29	6761.99
247.52	6761.98	248.01	6761.99	249.56	6761.99	249.74	6762	250.75	6761.99
251.46	6762.01	253.01	6762.02	254.04	6762.04	254.24	6762.03	255.65	6762.03
255.77	6762.04	256.72	6762.03	257.49	6762.05	259.19	6762.06	259.21	6762.08
260.08	6762.07	260.94	6762.08	262.1	6762.07	263.52	6762.09	264.79	6762.1
265.25	6762.14	265.38	6762.11	266.11	6762.12	269.09	6762.12	270.33	6762.13
271.28	6762.18	271.57	6762.15	272.14	6762.16	274.04	6762.16	274.72	6762.17
275.97	6762.17	276.52	6762.18	277.31	6762.22	277.75	6762.2	280.03	6762.2
280.23	6762.21	281.47	6762.21	282.48	6762.24	282.7	6762.22	283.34	6762.25
283.94	6762.24	285.18	6762.24	288.16	6762.26	288.51	6762.28	288.89	6762.27
289.37	6762.29	291.1	6762.28	291.21	6762.29	292.6	6762.3	293.84	6762.3
294.54	6762.32	295.08	6762.31	295.4	6762.33	296.15	6762.32	300.57	6762.36
301.83	6762.36	303.4	6762.38	304.41	6762.38	306.21	6762.4	307.5	6762.4
310.51	6762.43	311.52	6762.43	313.18	6762.45	314.36	6762.45	314.57	6762.46
316.95	6762.47	318.59	6762.49	319.83	6762.49	321.25	6762.5	322.7	6762.52
323.84	6762.52	326.76	6762.55	329.72	6762.57	330.83	6762.57	330.96	6762.58
332.2	6762.58	332.46	6762.59	334.89	6762.6	337.94	6762.63	341.56	6762.65
341.93	6762.66	343.02	6762.66	343.34	6762.67	344.52	6762.67	344.57	6762.68
345.81	6762.68	346.07	6762.69	347.23	6762.69	350.13	6762.72	351.14	6762.72
352.91	6762.74	354.19	6762.74	354.47	6762.75	355.72	6762.75	356.95	6762.77
358.26	6762.77	358.31	6762.78	360.89	6762.78	361.3	6762.79	362.61	6762.79
363.13	6762.8	364.26	6762.8	364.34	6762.81	366.92	6762.81	367.4	6762.82
369.51	6762.82	369.93	6762.83	372.48	6762.83	372.95	6762.84	374.68	6762.84
375.51	6762.85	377.56	6762.85	377.98	6762.86	383.29	6762.86	384.67	6762.85
385.68	6762.86	386.64	6762.89	387.23	6762.9	393.58	6762.96	393.71	6762.97
396.71	6763	397.53	6763.03	398.91	6763.1	399.5	6763.12	401.48	6763.22
402.71	6763.27	403.45	6763.03	403.71	6762.93	403.98	6762.95	404.99	6762.98
406.01	6762.99	406.71	6763.01	409.05	6763.04	409.71	6763.06	411.35	6763.08
412.09	6763.1	413.1	6763.11	414.71	6763.14	416.28	6763.15	417.15	6763.17
418.71	6763.23	420.23	6763.3	421.22	6763.28	424.18	6763.16	425.17	6763.13
425.71	6763.1	426.71	6763.07	427.29	6763.04	428.71	6762.99	429.11	6762.99
429.71	6762.96	431.09	6763	431.34	6762.95	431.71	6762.96	432.71	6762.92
433.71	6762.97	434.05	6762.95	434.38	6763	434.71	6762.98	435.39	6762.9
437.71	6762.58	438.43	6762.54	440.71	6762.45	441.47	6762.37	442.49	6762.23
443.5	6762.06	444.91	6761.79	446.88	6761.43	448.86	6761.15	449.84	6761
452.62	6760.61	454.65	6760.32	455.66	6760.17	456.68	6760.03	458.7	6759.73
459.71	6759.59	460.7	6759.35	461.69	6759.21	462.76	6759.25	464.65	6759.35
466.81	6759.44	468.6	6759.46	469.85	6759.45	470.86	6759.43	473.72	6759.4
474.72	6759.36	475.93	6759.3	476.94	6759.26	477.96	6759.23	481.72	6759.15
484.04	6759.14	484.39	6759.1	484.72	6759.1	485.38	6759.05	486.72	6758.97
488.09	6758.93	489.1	6758.89	489.33	6758.86	490.12	6758.83	491.72	6758.72
493.16	6758.55	494.17	6758.42	494.26	6758.42	495.72	6758.27	496.72	6758.16

498.21	6757.95	498.72	6757.87	499.2	6757.83	499.24	6757.8	501.72	6757.57
503.15	6757.47	503.29	6757.45	504.31	6757.38	506.72	6757.19	508.08	6757.25
509.07	6757.28	509.37	6757.23	509.72	6757.25	510.72	6757.19	512.03	6757.13
513.02	6757.12	514.44	6757.09	516.47	6757.1	518.94	6757.22	519.51	6757.26
520.52	6757.29	521.72	6757.34	522.89	6757.31	524.86	6757.28	527.61	6757.31
528.63	6757.33	528.81	6757.32	529.64	6757.34	531.77	6757.27	532.76	6757.33
533.69	6757.37	534.71	6757.43	536.73	6757.39	538.68	6757.27	539.77	6757.19
541.65	6757.09	543.72	6756.89	544.84	6756.79	546.72	6756.78	549.91	6756.64
551.72	6756.64	551.94	6756.63	553.72	6756.63	554.72	6756.61	555.46	6756.61
556.72	6756.59	557.44	6756.65	560.04	6756.89	560.4	6756.84	560.72	6756.87
561.72	6756.85	562.72	6756.78	564.1	6756.7	565.11	6756.63	565.34	6756.67
565.72	6756.65	566.12	6756.72	566.32	6756.85	566.72	6756.92	567.14	6756.85
567.31	6756.51	567.72	6756.44	568.15	6756.25	568.3	6756.29	568.72	6756.09
569.16	6755.99	569.28	6755.99	569.72	6755.88	570.18	6755.81	572.84	6755.37
573.23	6755.3	576.26	6754.81	577.18	6754.65	579.16	6754.33	579.73	6754.23
581.13	6754.05	582.34	6753.93	582.73	6753.88	583.1	6753.88	583.35	6753.82
583.73	6753.81	584.09	6753.86	584.36	6753.83	585.08	6753.91	585.38	6753.96
587.05	6754.11	587.73	6754.16	588.42	6754.23	589.43	6754.31	590.01	6754.37
592.73	6754.9	596.53	6754.94	597.84	6755.06	598.73	6755.14	600.58	6755.54
601.73	6755.8	601.86	6755.84	603.83	6756.34	604.82	6756.6	606.79	6757.1
607.67	6757.33	608.77	6757.65	609.7	6758.06	610.71	6758.12	611.73	6758.13
615.68	6757.89	616.79	6757.85	618.64	6757.83	618.73	6757.82	620.85	6757.8
621.6	6757.71	621.86	6757.7	624.56	6757.65	625.73	6757.62	629.5	6757.62
629.73	6757.63	630.98	6757.63	631.47	6757.69	631.73	6757.69	633.01	6757.77
635.42	6757.94	636.05	6757.98	637.06	6758.08	638.73	6758.23	639.73	6758.33
640.36	6758.38	641.12	6758.46	641.34	6758.45	642.13	6758.49	642.33	6758.47
644.16	6758.5	644.73	6758.5	646.73	6758.53	649.73	6758.53	650.23	6758.54
651.73	6758.54	653.19	6758.5	654.18	6758.46	654.73	6758.45	655.73	6758.41
656.73	6758.39	658.34	6758.44	660.37	6758.52	661.73	6758.56	663.06	6758.56
663.41	6758.55	664.73	6758.55	665.73	6758.54	666.02	6758.52	666.45	6758.54
666.73	6758.52	668.73	6758.57	669.97	6758.59	671.73	6758.64	672.93	6758.64
674.56	6758.66	676.73	6758.67	678.85	6758.47	680.64	6758.29	681.81	6758.19
684.69	6758.13	684.78	6758.12	686.75	6758.08	687.93	6757.95	688.75	6757.85
690.77	6757.62	691.79	6757.51	696.85	6757.31	697.87	6757.33	699.89	6757.39
700.57	6757.4	701.92	6757.44	704.96	6757.51	706.74	6757.56	707.48	6757.49
708	6757.46	709.01	6757.38	709.74	6757.31	711.74	6757.14	712.05	6757.1
715.23	6756.81	715.24	6756.81	716.74	6756.68	719.93	6756.68	720.58	6756.69
721.74	6756.69	721.86	6756.7	723.69	6757.1	724.73	6757.32	725.15	6757.42
726.69	6757.75	727.84	6758.02	728.62	6758.19	729.75	6758.45	730.96	6758.74
731.75	6758.92	732	6758.95	732.48	6759.05	732.75	6759.08	735.38	6759.54
736.75	6759.79	738.23	6759.78	741.17	6759.78	741.34	6759.86	741.75	6759.86
744.45	6760.64	744.76	6760.72	746	6761.08	746.53	6761.05	746.76	6761.12
747.93	6761.22	751.8	6761.58	756.76	6761.84	756.91	6761.81	758.56	6761.56
759.52	6761.4	760.03	6761.36	760.49	6761.25	761.77	6761.21	763.14	6760.9
764.77	6760.54	765.22	6760.52	765.32	6760.42	766.77	6760.35	768.69	6760.33

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
158.02	.05	567.31	.04	604.82	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	567.31	604.82		151.66	151.67		151.66	
							.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
164.02	419.34	6762	F
729.34	768.69	6762	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 4033.14

INPUT

Description:

Station	Elevation	Data	num=	317
Sta	Elev	Sta	Elev	Sta
27.86	6761	35.66	6761	66.43
203.7	6759.7	236.17	6759.32	263.98
337.96	6759.72	342.65	6759.63	376.85
381.74	6758.72	384.57	6758.46	384.89

Sta	Elev	Sta	Elev	Sta	Elev
95.47	6759.95	197.7	6759.77		
329.45	6759.66	336.62	6759.73		
377.74	6759.17	379.74	6758.9		
385.59	6758.43	387.85	6758.37		

390.68	6758.4	391.78	6758.4	392.76	6758.41	394.74	6758.46	397.8	6758.52
399.74	6758.58	401.62	6758.6	402.88	6758.62	403.59	6758.58	404.74	6758.53
405.74	6758.53	405.93	6758.52	406.95	6758.52	407.52	6758.51	408.98	6758.51
409.74	6758.52	411.02	6758.41	413.05	6758.25	413.42	6758.25	414.07	6758.21
414.74	6758.19	415.74	6758.09	416.74	6758	417.74	6757.9	418.14	6757.87
419.33	6757.75	419.74	6757.72	420.74	6757.61	421.29	6757.56	423.22	6757.36
424.74	6757.22	425.74	6757.22	427.2	6757.2	428.18	6757.21	428.31	6757.19
429.74	6757.22	432.11	6757.34	433.1	6757.38	434.74	6757.46	437.74	6757.55
438.02	6757.54	438.48	6757.57	439	6757.56	440.51	6757.56	441.53	6757.57
442.55	6757.59	444.74	6757.61	447.63	6757.81	448.65	6757.89	449.82	6757.95
452.72	6758.24	453.73	6758.35	454.74	6758.38	457.69	6759.07	457.8	6759.1
459.75	6759.54	461.63	6759.59	462.89	6759.61	463.91	6759.64	464.58	6759.73
466.75	6759.71	467.53	6759.69	468.75	6759.68	469.75	6759.66	470.01	6759.64
471.75	6759.55	473.43	6759.45	474.08	6759.42	474.75	6759.37	479.16	6759.37
479.33	6759.35	480.75	6759.36	481.75	6759.38	482.29	6759.38	483.23	6759.4
484.25	6759.41	484.25	6759.43	485.26	6759.45	486.75	6759.5	487.75	6759.52
489.33	6759.57	490.35	6759.62	491.14	6759.64	491.75	6759.67	492.75	6759.7
493.75	6759.74	494.09	6759.74	494.42	6759.77	494.75	6759.77	495.75	6759.74
496.75	6759.7	497.04	6759.7	498.75	6759.64	499.01	6759.59	499.5	6759.62
499.99	6759.54	501.75	6759.35	501.96	6759.32	504.59	6759.04	504.75	6759.01
506.88	6758.77	507.86	6758.65	508.85	6758.54	509.83	6758.42	510.81	6758.23
511.8	6758.05	513.74	6757.68	514.76	6757.48	515.78	6757.3	516.72	6757.12
518.68	6756.76	519.85	6756.55	520.65	6756.53	520.86	6756.5	521.88	6756.45
522.9	6756.41	523.76	6756.36	524.59	6756.33	524.93	6756.3	525.57	6756.88
525.76	6756.86	525.95	6756.89	526.55	6757.36	526.96	6757.46	527.54	6757.43
527.76	6757.5	527.98	6757.65	528.52	6757.2	528.75	6757.36	528.99	6757.41
529.5	6757.17	529.75	6757.23	530.01	6757.12	530.48	6756.99	530.75	6756.88
531.02	6756.81	531.46	6756.64	532.04	6756.47	532.45	6756.46	533.06	6756.26
533.43	6756.27	533.75	6756.17	534.07	6756.11	534.41	6756.1	534.75	6756.04
535.4	6755.98	536.38	6755.87	536.75	6755.84	540.18	6755.5	541.19	6755.41
541.3	6755.41	544.24	6755.17	544.75	6755.14	546.22	6755.02	547.2	6754.95
547.75	6754.9	548.75	6754.83	549.17	6754.79	550.15	6754.72	552.75	6754.51
554.42	6754.39	555.07	6754.33	556.45	6754.23	556.75	6754.2	558.02	6754.11
560.75	6753.89	560.98	6753.88	562.55	6753.75	564.91	6753.58	565.75	6753.51
565.89	6753.52	566.62	6753.43	567.05	6753.47	567.75	6753.55	569.83	6754.01
570.69	6754.19	572.72	6754.64	573.74	6754.79	579.54	6754.73	579.75	6754.73
579.84	6754.77	580.65	6755.34	580.86	6755.43	581.63	6755.61	581.88	6755.71
582.62	6755.81	582.89	6755.89	583.6	6756.37	583.91	6756.42	584.59	6756.68
584.93	6756.67	585.57	6756.32	585.95	6756.26	586.55	6756.11	586.75	6756.08
587.75	6756.12	590.01	6756.16	590.75	6756.18	591.76	6756.19	592.46	6756.21
593.44	6756.22	594.08	6756.24	595.1	6756.25	595.76	6756.27	596.76	6756.28
598.36	6756.31	599.76	6756.33	601.31	6756.56	603.28	6756.86	604.76	6757.05
606.23	6757.72	606.29	6757.76	607.3	6758.21	609.76	6759.32	611.37	6759.54
611.76	6759.6	613.94	6759.89	614.76	6760.01	615.08	6760.01	616.76	6760.04
617.48	6760.04	618.5	6760.06	619.76	6760.07	621.55	6760.13	622.94	6760.15
623.59	6760.17	624.91	6760.19	625.89	6760.23	626.64	6760.25	628.68	6760.37
629.7	6760.42	630.72	6760.5	631.74	6760.59	632.75	6760.56	634.73	6760.52
635.72	6760.4	636.7	6760.27	637.84	6760.16	639.76	6759.99	640.63	6760
641.92	6760	642.6	6760.06	642.76	6760.06	643.76	6760.12	644.56	6760.18
646.76	6760.27	647.01	6760.27	647.51	6760.36	648.03	6760.4	649.05	6760.53
649.76	6760.63	654.76	6760.78	655.76	6760.87	657.34	6761	658.77	6761.13
659.77	6761.23	660.77	6761.22	661.77	6761.2	663.3	6761.2	663.77	6761.21
664.77	6761.21	666.18	6761.18	667.38	6761.14	670.11	6761.18	671.77	6761.23
672.77	6761.25	673.77	6761.25	674.77	6761.26	675.77	6761.32	676.77	6761.37
676.99	6761.37	677.56	6761.42	678.95	6761.38	679.6	6761.37	680.77	6761.28
681.9	6761.21	682.65	6761.14	683.77	6761.15	683.87	6761.16	685.83	6761.18
686.72	6761.2	687.8	6761.21	689.78	6761.15	691.73	6761.07	692.83	6761.02
695.66	6760.97	696.91	6760.93	698.61	6760.9	699.59	6760.87	701.77	6760.93
702.77	6760.97	703.02	6760.97	703.52	6760.93	703.77	6760.94	704.77	6760.89
705.05	6760.91	706.48	6760.97						

Manning's	n	Values		num=	3
Sta	n	Val	Sta	n	Val
27.86	.05	533.75	.04	582.89	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	533.75	582.89		150.8	150.79	150.8		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3887.57

INPUT

Description:

Station	Elevation	Data	num= 299							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
31.21	6761.43	37.24	6761.43	45.63	6761	91	6760	104.67	6759.93	
215.07	6759.37	247.32	6759.2	247.54	6759.2	297.79	6759.42	345.76	6759	
346.91	6758.76	350.54	6758	351.55	6757.17	352.56	6757.1	352.71	6757.08	
353.71	6757.01	354.83	6757.03	358.64	6757.11	360.75	6757.32	361.74	6757.4	
363.71	6757.58	365.74	6757.48	366.76	6757.54	368.64	6757.66	369.8	6757.64	
370.81	6757.61	374.56	6757.31	375.88	6757.19	376.54	6757.18	376.71	6757.16	
378.72	6757.1	380.95	6756.9	381.47	6756.82	381.97	6756.77	382.72	6756.66	
383.72	6756.53	384.72	6756.55	386.02	6756.59	386.4	6756.51	386.72	6756.52	
388.72	6756.32	389.36	6756.33	390.72	6756.33	393.72	6756.42	395.14	6756.36	
396.15	6756.33	396.26	6756.35	397.24	6756.34	398.71	6756.37	400.2	6756.3	
401.19	6756.4	401.22	6756.38	402.24	6756.43	403.71	6756.52	406.29	6756.57	
407.11	6756.58	408.32	6756.58	408.71	6756.59	409.34	6756.65	410.71	6756.8	
411.06	6756.82	411.36	6756.87	413.03	6756.97	414.71	6757.09	415	6757.12	
417.71	6757.31	418.71	6757.37	419.71	6757.56	420.71	6757.74	420.92	6757.76	
421.51	6757.89	423.53	6758.03	423.88	6758.08	425.56	6758.4	426.58	6758.6	
428.71	6758.98	429.62	6759.05	430.79	6759.16	431.65	6759.22	433.75	6759.58	
436.72	6759.67	438.74	6759.71	439.76	6759.68	441.64	6759.64	441.79	6759.63	
443.61	6759.58	444.83	6759.53	445.58	6759.51	447.87	6759.42	449.9	6759.32	
451.5	6759.22	451.93	6759.2	452.49	6759.22	452.71	6759.21	453.71	6759.21	
453.95	6759.23	456.44	6759.33	456.71	6759.35	459.02	6759.42	462.07	6759.54	
463.71	6759.54	465.11	6759.49	466.12	6759.44	467.14	6759.4	467.29	6759.38	
468.15	6759.34	472.21	6759.09	472.22	6759.12	472.71	6759.08	474.71	6759.08	
475.18	6759.09	476.26	6759.09	477.15	6759.13	477.28	6759.1	478.71	6759.21	
481.1	6759.3	482.09	6759.35	482.35	6759.35	483.71	6759.42	486.72	6759.51	
487.02	6759.53	487.72	6759.54	490.46	6759.73	491.47	6759.81	491.95	6759.81	
492.49	6759.88	493.92	6759.81	494.52	6759.79	497.56	6759.64	498.72	6759.57	
499.84	6759.55	501.82	6759.53	502.63	6759.51	504.78	6759.59	505.76	6759.67	
506.75	6759.74	507.7	6759.82	508.71	6759.89	509.07	6759.87	510.74	6759.74	
511.68	6759.66	512.77	6759.58	513.65	6759.54	515.63	6759.18	515.81	6759.14	
517.84	6758.76	518.85	6758.65	522.91	6758.53	523.52	6758.45	523.92	6758.44	
525.72	6758.32	527.47	6758.22	528.45	6758.14	529.44	6758.1	529.72	6758.1	
533.05	6758	533.39	6758.04	533.72	6758.03	537.11	6757.76	538.12	6757.69	
538.72	6757.63	539.13	6757.63	539.3	6757.58	540.72	6757.56	541.16	6757.5	
541.28	6757.55	541.72	6757.49	542.72	6757.24	543.19	6757.06	543.25	6757.07	
543.72	6756.89	545.22	6756.39	546.23	6756.06	547.2	6755.73	548.18	6755.41	
548.26	6755.48	548.72	6755.33	549.17	6755.32	549.27	6755.29	550.16	6755.29	
550.29	6755.34	550.72	6755.34	551.14	6755.37	551.3	6755.35	551.72	6755.38	
552.72	6755.34	556.08	6755.24	556.72	6755.2	557.39	6755.1	559.72	6754.79	
560.43	6754.74	561.72	6754.61	562.72	6754.52	564.72	6754.28	565.33	6754.22	
565.94	6754.17	566.93	6754.12	567.91	6754.06	568.72	6753.98	570.87	6753.67	
571.58	6753.65	573.61	6753.41	573.83	6753.39	575.81	6753.15	576.65	6753.06	
577.84	6752.92	578.77	6752.84	582.74	6753.42	583.75	6753.49	584.77	6753.85	
586.66	6754.53	587.64	6754.82	587.81	6754.88	588.82	6755.16	589.62	6755.35	
589.84	6755.46	590.33	6755.76	590.6	6755.92	590.73	6756.02	591.86	6756.96	
592.73	6757.67	592.88	6757.92	593.56	6759.3	593.73	6759.56	596.93	6759.4	
597.51	6759.38	598.73	6759.32	600.99	6759.52	603.43	6759.75	604.03	6759.78	
604.47	6759.78	604.48	6759.78	605.05	6759.79	606.06	6759.79	607.37	6759.81	
608.36	6759.81	613.28	6759.96	614.18	6759.98	614.27	6759.95	614.73	6759.96	
616.73	6759.88	617.23	6759.87	618.73	6759.81	619.2	6759.92	619.26	6759.91	
620.28	6760.15	621.73	6760.48	622.73	6760.7	623.73	6760.93	624.34	6761.02	
625.11	6761.11	626.09	6761.24	627.08	6761.36	627.73	6761.45	629.41	6761.65	
631.44	6761.91	632.46	6762.05	633.73	6762.21	633.98	6762.27	634.49	6762.28	
636.93	6762.81	637.53	6762.95	638.73	6763.21	639.57	6763.33	639.89	6763.36	
641.86	6763.58	642.61	6763.67	643.63	6763.78	644.64	6763.85	644.73	6763.84	
645.8	6763.83	648.7	6763.77	649.72	6763.76	653.78	6763.76	654.67	6763.73	
655.66	6763.68	656.36	6763.65	656.37	6763.65	658.74	6763.55	660.19	6763.48	
661.22	6763.44	662.4	6763.38	663.06	6763.36	663.98	6763.31	666.83	6763.19	
671.26	6762.99	672.25	6762.94	673.81	6762.85	674.58	6762.85	675.92	6762.82	
676.84	6762.82	677.9	6762.74	678.68	6762.69	679.6	6762.61	680.84	6762.52	
682.85	6762.36	684.19	6762.26	685.11	6762.16	685.74	6762.11			

Manning's n Values

Sta n Val		Sta n Val		Sta n Val	
31.21	.05	545.22	.04	590.33	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	545.22	590.33		146.75 146.75	146.75		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3742

INPUT

Description: Bridge Cross Section 1

Station	Elevation	Data	num=	278
Sta	Elev	Sta	Elev	Sta
369.08	6760.44	374.3	6760.44	505.9
691.82	6758	694.59	6757	694.81
695.8	6756.59	696.05	6756.54	696.42
699.42	6755.44	699.75	6755.35	700.42
702.71	6754.84	703.7	6754.86	704.42
705.67	6754.93	706.18	6754.9	706.42
708.63	6754.45	709.22	6754.3	709.42
711.42	6754.94	715.54	6755.23	716.43
720.37	6756.13	721.38	6756.35	721.47
724.57	6756.22	727.46	6756.11	730.5
736.43	6755.95	736.59	6755.91	737.26
738.61	6756.09	739.63	6756.2	740.43
744.17	6756.83	744.69	6756.93	745.16
746.14	6757.18	746.43	6757.35	746.72
748.12	6757.14	751.43	6756.74	752.07
755.43	6756.72	755.84	6756.7	756.85
760.43	6756.47	760.91	6756.45	761.92
763.43	6756.42	763.95	6756.43	766.43
768.43	6756.6	769.43	6756.56	771.42
772.79	6756.2	773.06	6755.97	773.77
775.08	6756.42	775.75	6756.45	776.1
778.12	6756.72	779.14	6756.72	779.42
783.64	6756.61	784.21	6756.6	785.42
788.58	6756.48	789.27	6756.47	792.31
797.46	6756.07	799.44	6756.13	800.42
803.39	6756.13	804.37	6756.09	806.5
809.42	6756.11	810.55	6756.2	811.42
813.59	6756.46	814.25	6756.49	816.22
818.19	6756.75	818.42	6756.75	821.42
823.42	6757.55	825.43	6757.93	826.43
831.43	6758.57	832.85	6758.93	833
838.43	6759.07	839.94	6759.02	840.96
843.43	6758.9	844.85	6758.85	846.43
848.05	6758.54	849.43	6758.43	849.78
850.77	6758.03	851.09	6757.75	851.43
852.43	6756.94	853.43	6756.17	853.73
854.43	6755.57	857.68	6755.08	859.43
862.24	6754.3	862.43	6754.28	863.43
864.59	6753.97	866.27	6753.41	866.28
869.35	6753.02	870.36	6752.95	870.53
875.47	6753.06	877.46	6753.16	878.43
879.49	6753.41	880.5	6753.56	882.38
884.45	6754.05	889.62	6754.05	890.45
891.65	6754.52	892.25	6754.66	892.45
897.45	6755.62	897.73	6755.68	898.17
899.45	6755.95	900.14	6755.95	900.45
901.45	6755.88	901.78	6755.82	902.12
903.11	6755.74	904.65	6755.67	904.66
908.45	6755.51	908.75	6755.51	909.16
910.18	6755.62	910.45	6755.67	912.45
916.62	6755.84	917.3	6756	917.6
919.57	6756.66	920.56	6756.82	921.37
926.45	6757.46	927.44	6757.63	928.43
933.34	6759.01	934.59	6759.15	935.31
937.58	6759.64	937.64	6759.64	938.59
941.43	6759.83	942.42	6759.87	942.97

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 369.08 .05 853.77 .04 878.77 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 853.77 878.77 54.92 54.92 54.92 .1 .3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3640

INPUT

Description:

Station Elevation Data num= 491

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-582.6	6761.84	-581.75	6761.84	-580.36	6761.86	-579.85	6761.85	-576.77	6761.85
-574.39	6761.8	-572.92	6761.81	-564.36	6761.81	-563.62	6761.79	-563.06	6761.79
-562.35	6761.77	-561.76	6761.77	-559.35	6761.74	-558.34	6761.78	-555.43	6761.88
-554.35	6761.93	-553.26	6761.93	-550.6	6761.96	-549.31	6761.97	-547.81	6761.94
-545.3	6761.91	-544.3	6761.89	-543.46	6761.93	-541.28	6762.01	-539.44	6762.09
-537.58	6762.16	-536.27	6762.2	-534.27	6762.28	-532.93	6762.3	-532	6762.33
-530.14	6762.37	-529.27	6762.35	-528.21	6762.39	-526.42	6762.47	-525.49	6762.5
-523.86	6762.59	-522.7	6762.68	-520.59	6762.82	-519.5	6762.9	-517.87	6762.92
-516.24	6762.93	-514.06	6762.93	-512.97	6762.97	-511.19	6763.02	-509.19	6763.07
-506.89	6763	-506.18	6763	-504.26	6763.02	-503.17	6763.01	-500.99	6763.01
-500.38	6763	-499.16	6763	-498.82	6762.99	-497.73	6762.99	-497.59	6762.98
-495.55	6762.98	-495.14	6762.99	-492.94	6762.99	-490.4	6763.02	-489.13	6763.03
-485.75	6763.1	-484.66	6763.13	-481.4	6763.13	-481.1	6763.12	-477.65	6763.12
-477.13	6763.11	-474.86	6763.11	-474.34	6763.1	-472.48	6763.1	-472.07	6763.09
-469.69	6763.09	-469.42	6763.08	-467.06	6763.08	-466.9	6763.07	-465.04	6763.07
-464.11	6763.09	-460.39	6763.09	-460.04	6763.1	-458.53	6763.1	-456.02	6763.15
-454.18	6763.17	-452	6763.17	-450.91	6763.16	-449.23	6763.11	-444.58	6763.01
-442.98	6762.99	-441.98	6762.97	-439.4	6762.97	-439	6762.98	-435.67	6762.98
-435.28	6762.99	-433.96	6762.99	-433.49	6763	-432.4	6763	-431.95	6763.01
-430.22	6763.01	-429.94	6763.02	-428.77	6763.02	-428.05	6763.03	-426.65	6763.03
-425.98	6763.04	-424.78	6763.04	-424.12	6763.05	-422.92	6763.05	-422.6	6763.06
-421.33	6763.06	-420.92	6763.07	-417.61	6763.07	-417.16	6763.06	-416.07	6763.06
-415.9	6763.05	-414.82	6763.05	-411.89	6763.02	-410.63	6763.02	-410.17	6763.01
-404.87	6763.01	-403.86	6763.02	-403.66	6763.01	-401.8	6762.97	-399.95	6762.92
-398.85	6762.85	-398.65	6762.82	-396.84	6762.6	-395.3	6762.4	-394.3	6762.25
-393.83	6762.19	-390.65	6762.12	-388.85	6762.16	-388.4	6762.15	-386	6762.05
-383.21	6761.89	-381.79	6761.8	-380.42	6761.73	-379.49	6761.67	-378.56	6761.63
-376.7	6761.62	-374.84	6761.55	-373.77	6761.52	-371.76	6761.4	-371.12	6761.38
-369.76	6761.31	-368.75	6761.27	-367.4	6761.2	-365.99	6761.14	-363.81	6761.06
-362.9	6761.04	-358.72	6761.04	-358.1	6761.03	-356.24	6760.94	-353.45	6760.79
-351.59	6760.71	-348.8	6760.57	-345.08	6760.54	-343.68	6760.52	-343.22	6760.47
-343.12	6760.49	-342.29	6760.4	-342.04	6760.39	-340.67	6760.24	-339.86	6760.25
-339.5	6760.27	-337.4	6760.3	-335.78	6760.34	-333.33	6760.39	-331.64	6760.43
-328.34	6760.5	-326.79	6760.54	-326.48	6760.54	-324.65	6760.58	-323.69	6760.59
-321.83	6760.58	-317.6	6760.53	-316.99	6760.53	-315.91	6760.51	-315.32	6760.51
-311.9	6760.47	-309.57	6760.45	-308.57	6760.43	-307.2	6760.39	-306.95	6760.35
-306.56	6760.34	-305.56	6760.23	-305.09	6760.26	-305.02	6760.16	-304.56	6760.19
-303.55	6760.23	-302.3	6760.59	-300.66	6761.01	-298.58	6761.56	-298.49	6761.59
-297.65	6761.68	-296.72	6762.01	-293.52	6763.11	-293.04	6763.1	-293	6763.02
-291.52	6762.99	-290.51	6762.98	-289.28	6762.95	-288.51	6762.94	-286.51	6762.21
-286.4	6762.16	-283.49	6761.11	-282.77	6761	-279.05	6760.4	-278.89	6760.26
-278.48	6760.19	-277.19	6760.26	-276.47	6760.31	-275.62	6760.35	-274.53	6760.42
-272.54	6760.4	-271.27	6760.4	-269.75	6760.39	-268.45	6760.38	-266.44	6760.43
-264.43	6760.49	-263.43	6760.5	-262.32	6760.54	-260.46	6760.59	-259.53	6760.6
-257.67	6760.64	-255.41	6760.71	-253.95	6760.74	-253.4	6760.76	-251.16	6760.73
-250.58	6760.75	-249.39	6760.76	-248.15	6760.79	-245.37	6760.79	-245.14	6760.8
-241.86	6760.8	-240.36	6760.82	-239.36	6760.82	-239.07	6760.83	-237.21	6760.84
-234.42	6760.9	-233.49	6760.93	-231.63	6760.96	-229.9	6761.01	-228.81	6761.03
-226.32	6761.1	-225.31	6761.14	-224.45	6761.16	-223.36	6761.2	-222.65	6761.19
-222.27	6761.17	-220.1	6761.11	-218.29	6761.05	-216.83	6760.97	-216.28	6760.95
-213.96	6760.82	-213.56	6760.79	-212.48	6760.75	-211.17	6760.69	-209.31	6760.62
-208.12	6760.55	-207.45	6760.53	-204.25	6760.39	-201.87	6760.24	-200.24	6760.12
-200.01	6760.11	-198.15	6759.93	-197.23	6759.78	-196.14	6759.63	-195.22	6759.55
-193.21	6759.55	-191.79	6759.43	-191.21	6759.37	-190.7	6759.34	-188.85	6759.2

-15.06	6761.32	-13.6	6761.3	-13.47	6761.29	-12.25	6761.28	-10.91	6761.31
-8.22	6761.41	-7.29	6761.44	-5.04	6761.4	-4.23	6761.41	-3.17	6761.41
-2.84	6761.42	-1.51	6761.42	-1.16	6761.41	1.98	6761.41	2.47	6761.42
2.53	6761.4	3.87	6761.42	4.59	6761.42	5.22	6761.44	6.1	6761.45
7.49	6761.48	7.91	6761.47	10.22	6761.47	10.59	6761.48	11.66	6761.48
12.28	6761.5	13.28	6761.55	14.63	6761.56	15.83	6761.58	18.34	6761.55
20.52	6761.55	23.34	6761.52	24.03	6761.53	25.02	6761.56	25.38	6761.56
28.76	6761.64	32.53	6761.64	33.91	6761.67	35.87	6761.62	37	6761.6
37.54	6761.6	39.06	6761.58	40.88	6761.65	42.85	6761.68	44.19	6761.71
45.54	6761.71	46.72	6761.72	49.36	6761.75	50.39	6761.72	51.42	6761.7
53.4	6761.65	54.51	6761.65	55.91	6761.69	56.74	6761.73	57.63	6761.75
58.41	6761.78	60.08	6761.82	61.89	6761.82	63.42	6761.8	64.25	6761.78
64.81	6761.78	65.7	6761.74	67.9	6761.67	69.96	6761.59	71.07	6761.56
71.77	6761.55	74.27	6761.49	75.1	6761.51	76.14	6761.56	76.78	6761.6
78.2	6761.67	78.45	6761.69	79.13	6761.66	80.95	6761.62	81.82	6761.62
82.63	6761.61	84.51	6761.56	85.4	6761.53	86.8	6761.51	87.2	6761.52
88.34	6761.52	88.47	6761.53	89.53	6761.53	89.89	6761.54	90.97	6761.54
92.57	6761.56	92.74	6761.57	94.31	6761.59	95.7	6761.59	98.79	6761.67
99.29	6761.66	99.32	6761.68	101.56	6761.65	103.33	6761.65	103.95	6761.66
105.97	6761.71	107.04	6761.71	107.36	6761.73	107.67	6761.71	110.38	6761.9
111.16	6761.96	111.84	6761.97	114.79	6761.97	116.3	6761.94	117.34	6761.84
120.2	6761.58	121.46	6761.42	123.61	6761.25	124.37	6761.18	125.57	6761.25
126.6	6761.3	126.87	6761.29	128.54	6761.26	128.86	6761.26	130.2	6761.23
130.21	6761.28	130.73	6761.26	131.88	6761.31	132.89	6761.29	134.24	6761.32
135.87	6761.37	136.05	6761.37	138.27	6761.42	139.99	6761.47	140.23	6761.47
142.06	6761.53	143.08	6761.44	143.64	6761.38	144.99	6761.26	145.24	6761.23
149.41	6761.23	152.35	6761.02	153.59	6761.01	155.26	6760.99	157.76	6760.97
158.43	6760.95	159.77	6760.93	161.63	6760.89	161.94	6760.89	166.5	6760.78
167.84	6760.73	168.84	6760.76	169.19	6760.76	170.28	6760.79	170.53	6760.77
171.12	6760.77	172.1	6760.74	172.79	6760.73	174.46	6760.65	174.56	6760.68
175.02	6760.66	177.8	6760.7	178.64	6760.7	180.3	6760.65	180.91	6760.64
182.81	6760.58	183.64	6760.58	186.15	6760.55	187.37	6760.53	188	6760.5
190.69	6760.42	191.15	6760.4	192.53	6760.38	194.49	6760.33	196.07	6760.28
197	6760.27	197.41	6760.24	198.54	6760.24	198.67	6760.25	199.51	6760.15
201.44	6760.01	202.01	6759.96	202.95	6759.9	203.85	6759.83	204.88	6759.81
205.35	6759.79	206.19	6759.78	207.85	6759.74	209	6759.7	211.19	6759.91
214.15	6760.21	215.37	6760.38	216.18	6760.48	217.57	6760.7	218.27	6760.82
219.3	6760.98	220.58	6761.5	222.39	6762.14	222.95	6762.33	224.45	6762.87
224.55	6762.88	225.38	6763.15	227.54	6763.77	228.72	6764.12	229.61	6764.24
230.4	6763.99	232.06	6763.45	232.9	6763.19	234.75	6763.02	235.4	6762.86
235.78	6762.78	237.08	6762.47	237.73	6762.24	237.91	6762.19	238.74	6761.91
239.07	6761.81	239.9	6761.53	240.42	6761.38	241.25	6761.12	241.76	6761.01
242.08	6760.92	242.92	6760.73	245.05	6760.22	246.26	6760.16	247.03	6760.11
248.14	6760.06	248.76	6760.02	249.6	6759.98	250.2	6759.93	252.94	6759.96
254.32	6759.99	255.35	6760.03	255.84	6760.03	256.54	6760.05	257.95	6760.07
260.46	6760.19	261.92	6760.18	262.12	6760.17	263.79	6760.17	264.61	6760.16
265.95	6760.17	266.29	6760.15	267.3	6760.14	268.8	6760.14	269.07	6760.13
269.77	6760.14	270.8	6760.13	272.14	6760.17	273.81	6760.21	274.65	6760.24
275.48	6760.21	276.7	6760.19	277.89	6760.16	279.39	6760.14	280.49	6760.14
281.1	6760.13	283.16	6760.02	283.42	6760.02	285.5	6759.97	286.11	6759.95
287.17	6759.98	288.01	6759.97	289.34	6759.97	289.67	6759.96	291.11	6759.96
293.84	6759.88	294.69	6759.85	296.35	6759.81	299.69	6759.76	300.52	6759.72
301.7	6759.68	302.24	6759.68	303.75	6759.71	308.04	6759.71	309.94	6759.66
312.22	6759.61	313.88	6759.61	314.05	6759.6	316.39	6759.6	317.02	6759.59
319.21	6759.47	319.73	6759.45	320.56	6759.4	321.05	6759.4	321.97	6759.37
325.58	6759.37	327.24	6759.39	328.07	6759.38	328.92	6759.38	329.51	6759.37
331.41	6759.31	331.56	6759.31	333.09	6759.25	333.15	6759.27	333.63	6759.25
334.49	6759.26	337.26	6759.26	339.87	6759.22	341.43	6759.2	343.11	6759.16
343.9	6759.18	344.95	6759.19	345.61	6759.21	348.11	6759.34	349.27	6759.28
351.13	6759.21	351.96	6759.19	353.13	6759.15	353.96	6759.16	354.79	6759.19
355.99	6759.22	357.34	6759.27	358.68	6759.31	360.41	6759.34	361.64	6759.35
362.46	6759.37	363.5	6759.42	364.81	6759.42	365.4	6759.43	366.49	6759.43
368.64	6759.33	369.43	6759.35	370.66	6759.4	371.49	6759.4	372.76	6759.42
373.8	6759.42	374.81	6759.44	375.85	6759.42	377.5	6759.4	378.84	6759.37
380.19	6759.39	382.03	6759.43	383.18	6759.45	384.1	6759.42	385.56	6759.34
387.36	6759.23	388.21	6759.23	389.24	6759.21	390.27	6759.24	390.7	6759.24
391.3	6759.26	392.28	6759.25	393.36	6759.25	393.62	6759.24	395.7	6759.24
396.53	6759.25	398.21	6759.29	399.87	6759.31	401.69	6759.22	404.38	6759.1
404.89	6759.09	406.55	6759.12	407.06	6759.12	408.23	6759.14	409.75	6759.15
411.57	6759.11	412.4	6759.1	413.78	6759.11	414.91	6759.13	416.02	6759.13
417.41	6759.1	417.82	6759.08	418.95	6759.05	420.14	6759.01	421.59	6759.01

Manning's	n	Values		num=	3			
Sta	n	Val	Sta	n	Val	Sta	n	Val
-45.73		.05	516.77		.04	610.77		.05

BRIDGE

INPUT

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Distance from Upstream XS =      12
Deck/Roadway Width        =      10
Weir Coefficient           =      2.6
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Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
487.24		6759.5			504.24		6760.41			513.24		6761.16		6759.33
536.24		6762.82		6761.01	560.24		6763.55		6761.55	583.24		6762.88		6760.93
607.24		6761.18		6759.3	625.24		6760.29							

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-45.73	6761.37	-44.13	6761.41	-43.93	6761.4	-41.32	6761.39	-39.32	6761.4
-39.13	6761.44	-38.43	6761.46	-33.75	6761.46	-33.04	6761.45	-31.76	6761.4
-29.25	6761.31	-27.89	6761.25	-27.04	6761.24	-25.69	6761.24	-23.77	6761.3
-21.86	6761.36	-18.4	6761.36	-17.63	6761.37	-17.46	6761.36	-15.89	6761.34
-15.06	6761.32	-13.6	6761.3	-13.47	6761.29	-12.25	6761.28	-10.91	6761.31
-8.22	6761.41	-7.29	6761.44	-5.04	6761.4	-4.23	6761.41	-3.17	6761.41
-2.84	6761.42	-1.51	6761.42	-1.16	6761.41	1.98	6761.41	2.47	6761.42
2.53	6761.4	3.87	6761.42	4.59	6761.42	5.22	6761.44	6.1	6761.45
7.49	6761.48	7.91	6761.47	10.22	6761.47	10.59	6761.48	11.66	6761.48
12.28	6761.5	13.28	6761.55	14.63	6761.56	15.83	6761.58	18.34	6761.55
20.52	6761.55	23.34	6761.52	24.03	6761.53	25.02	6761.56	25.38	6761.56
28.76	6761.64	32.53	6761.64	33.91	6761.67	35.87	6761.62	37	6761.6
37.54	6761.6	39.06	6761.58	40.88	6761.65	42.85	6761.68	44.19	6761.71
45.54	6761.71	46.72	6761.72	49.36	6761.75	50.39	6761.72	51.42	6761.7
53.4	6761.65	54.51	6761.65	55.91	6761.69	56.74	6761.73	57.63	6761.75
58.41	6761.78	60.08	6761.82	61.89	6761.82	63.42	6761.8	64.25	6761.78
64.81	6761.78	65.7	6761.74	67.9	6761.67	69.96	6761.59	71.07	6761.56
71.77	6761.55	74.27	6761.49	75.1	6761.51	76.14	6761.56	76.78	6761.6

78.2	6761.67	78.45	6761.69	79.13	6761.66	80.95	6761.62	81.82	6761.62
82.63	6761.61	84.51	6761.56	85.4	6761.53	86.8	6761.51	87.2	6761.52
88.34	6761.52	88.47	6761.53	89.53	6761.53	89.89	6761.54	90.97	6761.54
92.57	6761.56	92.74	6761.57	94.31	6761.59	95.7	6761.59	98.79	6761.67
99.29	6761.66	99.32	6761.68	101.56	6761.65	103.33	6761.65	103.95	6761.66
105.97	6761.71	107.04	6761.71	107.36	6761.73	107.67	6761.71	110.38	6761.9
111.16	6761.96	111.84	6761.97	114.79	6761.97	116.3	6761.94	117.34	6761.84
120.2	6761.58	121.46	6761.42	123.61	6761.25	124.37	6761.18	125.57	6761.25
126.6	6761.3	126.87	6761.29	128.54	6761.26	128.86	6761.26	130.2	6761.23
130.21	6761.28	130.73	6761.26	131.88	6761.31	132.89	6761.29	134.24	6761.32
135.87	6761.37	136.05	6761.37	138.27	6761.42	139.99	6761.47	140.23	6761.47
142.06	6761.53	143.08	6761.44	143.64	6761.38	144.99	6761.26	145.24	6761.23
149.41	6761.23	152.35	6761.02	153.59	6761.01	155.26	6760.99	157.76	6760.97
158.43	6760.95	159.77	6760.93	161.63	6760.89	161.94	6760.89	166.5	6760.78
167.84	6760.73	168.84	6760.76	169.19	6760.76	170.28	6760.79	170.53	6760.77
171.12	6760.77	172.1	6760.74	172.79	6760.73	174.46	6760.65	174.56	6760.68
175.02	6760.66	177.8	6760.7	178.64	6760.7	180.3	6760.65	180.91	6760.64
182.81	6760.58	183.64	6760.58	186.15	6760.55	187.37	6760.53	188	6760.5
190.69	6760.42	191.15	6760.4	192.53	6760.38	194.49	6760.33	196.07	6760.28
197	6760.27	197.41	6760.24	198.54	6760.24	198.67	6760.25	199.51	6760.15
201.44	6760.01	202.01	6759.96	202.95	6759.9	203.85	6759.83	204.88	6759.81
205.35	6759.79	206.19	6759.78	207.85	6759.74	209	6759.7	211.19	6759.91
214.15	6760.21	215.37	6760.38	216.18	6760.48	217.57	6760.7	218.27	6760.82
219.3	6760.98	220.58	6761.5	222.39	6762.14	222.95	6762.33	224.45	6762.87
224.55	6762.88	225.38	6763.15	227.54	6763.77	228.72	6764.12	229.61	6764.24
230.4	6763.99	232.06	6763.45	232.9	6763.19	234.75	6763.02	235.4	6762.86
235.78	6762.78	237.08	6762.47	237.73	6762.24	237.91	6762.19	238.74	6761.91
239.07	6761.81	239.9	6761.53	240.42	6761.38	241.25	6761.12	241.76	6761.01
242.08	6760.92	242.92	6760.73	245.05	6760.22	246.26	6760.16	247.03	6760.11
248.14	6760.06	248.76	6760.02	249.6	6759.98	250.2	6759.93	252.94	6759.96
254.32	6759.99	255.35	6760.03	255.84	6760.03	256.54	6760.05	257.95	6760.07
260.46	6760.18	261.92	6760.18	262.12	6760.17	263.79	6760.17	264.61	6760.16
265.95	6760.17	266.29	6760.15	267.3	6760.14	268.8	6760.14	269.07	6760.13
269.77	6760.14	270.8	6760.13	272.14	6760.17	273.81	6760.21	274.65	6760.24
275.48	6760.21	276.7	6760.19	277.89	6760.16	279.39	6760.14	280.49	6760.14
281.1	6760.13	283.16	6760.02	283.42	6760.02	285.5	6759.97	286.11	6759.95
287.17	6759.98	288.01	6759.97	289.34	6759.97	289.67	6759.96	291.11	6759.96
293.84	6759.88	294.69	6759.85	296.35	6759.81	299.69	6759.76	300.52	6759.72
301.7	6759.68	302.24	6759.68	303.75	6759.71	308.04	6759.71	309.94	6759.66
312.22	6759.61	313.88	6759.61	314.05	6759.6	316.39	6759.6	317.02	6759.59
319.21	6759.47	319.73	6759.45	320.56	6759.4	321.05	6759.4	321.97	6759.37
325.58	6759.37	327.24	6759.39	328.07	6759.38	328.92	6759.38	329.51	6759.37
331.41	6759.31	331.56	6759.31	333.09	6759.25	333.15	6759.27	333.63	6759.25
334.49	6759.26	337.26	6759.26	339.87	6759.22	341.43	6759.2	343.11	6759.16
343.9	6759.18	344.95	6759.19	345.61	6759.21	348.11	6759.34	349.27	6759.28
351.13	6759.21	351.96	6759.19	353.13	6759.15	353.96	6759.16	354.79	6759.19
355.99	6759.22	357.34	6759.27	358.68	6759.31	360.41	6759.34	361.64	6759.35
362.46	6759.37	363.5	6759.42	364.81	6759.42	365.4	6759.43	366.49	6759.43
368.64	6759.33	369.43	6759.35	370.66	6759.4	371.49	6759.4	372.76	6759.42
373.8	6759.42	374.81	6759.44	375.85	6759.42	377.5	6759.4	378.84	6759.37
380.19	6759.39	382.03	6759.43	383.18	6759.45	384.1	6759.42	385.56	6759.34
387.36	6759.23	388.21	6759.23	389.24	6759.21	390.27	6759.24	390.7	6759.24
391.3	6759.26	392.28	6759.25	393.36	6759.25	393.62	6759.24	395.7	6759.24
396.53	6759.25	398.21	6759.29	399.87	6759.31	401.69	6759.22	404.38	6759.1
404.89	6759.09	406.55	6759.12	407.06	6759.12	408.23	6759.14	409.75	6759.15
411.57	6759.11	412.4	6759.1	413.78	6759.11	414.91	6759.13	416.02	6759.13
417.41	6759.1	417.82	6759.08	418.95	6759.05	420.14	6759.01	421.59	6759.01
421.85	6759.02	424.26	6759.02	425.76	6759.04	427.76	6759.11	428.27	6759.12
429.41	6759.16	430.76	6759.18	432.6	6759.14	434.95	6759.11	435.78	6759.11
436.58	6759.13	437.44	6759.14	437.97	6759.17	438.68	6759.19	440.66	6759.28
441.63	6759.31	442.01	6759.31	444.12	6759.36	445.8	6759.39	446.92	6759.4
448.3	6759.4	448.73	6759.41	450.07	6759.41	451.04	6759.42	451.64	6759.38
453.1	6759.32	454.97	6759.34	455.82	6759.39	456.65	6759.41	458.13	6759.43
461.34	6759.43	461.65	6759.42	462.5	6759.42	463.33	6759.47	463.51	6759.47
464.16	6759.52	464.99	6759.48	465.84	6759.42	466.2	6759.51	466.67	6759.5
468.54	6759.89	470.01	6760.22	470.23	6760.14	470.61	6760.21	470.84	6760.2
471.57	6760.01	471.63	6760.01	472.52	6759.8	472.67	6759.84	472.92	6759.97
473.35	6760.25	473.7	6760.43	474.18	6760.56	474.26	6760.53	474.73	6760.64
475.01	6760.68	475.6	6760.59	475.86	6760.6	476.69	6760.48	477.82	6760.3
478.84	6760.15	479.64	6760.02	480.91	6759.83	480.98	6759.83	481.69	6759.7
481.93	6759.7	483.37	6759.53	483.67	6759.55	484.2	6759.5	485.03	6759.48

486.36	6759.48	486.71	6759.45	487.09	6759.46	488.12	6759.43	488.37	6759.45
489.04	6759.4	489.47	6759.39	491.71	6759.05	491.73	6759.13	492.23	6759.07
492.54	6759.05	493.08	6758.91	495.32	6758.72	495.76	6758.72	495.88	6758.67
496.73	6758.72	497.11	6758.79	497.56	6758.83	499.8	6758.9	502.48	6759.01
503.41	6758.99	503.83	6758.97	505.9	6758.92	506.51	6758.97	506.75	6758.97
507.86	6759.08	508.41	6759.17	509.24	6759.29	510.09	6759.43	511.75	6759.67
511.89	6759.67	512.58	6759.77	512.83	6759.74	514.26	6759.45	515.09	6759.29
515.26	6757.09	516.77	6756.73	530.26	6753.57	548.26	6752.65	548.45	6752.66
570.26	6753.58	609.26	6760.41	610.77	6760.39	611.05	6760.39	623.26	6760.29
673.26	6760.1								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-45.73	.05	516.77	.04	610.77	.05

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	516.77	610.77	.3	.5

Downstream Deck/Roadway Coordinates

num= 8

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
561.82	6759.5		578.82	6760.41		587.82	6761.16	6759.33
610.82	6762.82	6761.01	634.82	6763.55	6761.55	657.82	6762.88	6760.93
681.82	6761.18	6759.3	699.82	6760.29				

Downstream Bridge Cross Section Data

Station Elevation Data num= 491

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-31.46	6758.52	-29.13	6758.49	-28.56	6758.49	-27.2	6758.45	-24.94	6758.41
-23.49	6758.53	-22.35	6758.53	-20.15	6758.51	-19.45	6758.49	-17.24	6758.45
-15.98	6758.45	-14.31	6758.5	-11.81	6758.56	-8.48	6758.56	-7.64	6758.57
-7.34	6758.55	-6.81	6758.55	-3.95	6758.48	-2.93	6758.46	-1.81	6758.46
-.14	6758.49	1.53	6758.54	2.36	6758.58	4.86	6758.65	6.53	6758.64
8.52	6758.62	10.37	6758.58	10.7	6758.58	12.48	6758.54	13.2	6758.53
14.04	6758.54	14.45	6758.56	17.37	6758.65	18.54	6758.74	20.42	6758.72
21.54	6758.72	22.37	6758.68	23.66	6758.63	25.71	6758.66	26.73	6758.71
27.37	6758.73	28.78	6758.8	29.66	6758.81	30.99	6758.81	32.86	6758.79
34.04	6758.79	34.75	6758.8	36.54	6758.86	37.38	6758.88	38.92	6758.93
39.88	6758.94	41.56	6758.94	42.06	6758.95	43.09	6758.95	43.22	6758.96
44.2	6758.96	44.88	6758.97	46.16	6758.97	48.17	6759.02	49.89	6759.08
51.26	6759.15	54.34	6759.36	54.88	6759.38	56.38	6759.37	57.43	6759.35
58.23	6759.32	59.45	6759.29	60.72	6759.21	61.39	6759.18	63.22	6759.07
63.54	6759.08	65.59	6759.08	65.72	6759.09	67.39	6759.09	68.65	6759.13
69.67	6759.17	70.87	6759.23	73.28	6759.37	74.9	6759.48	75.73	6759.51
77.25	6759.51	77.4	6759.5	79.07	6759.5	79.9	6759.49	84.06	6759.49
85.01	6759.56	86.03	6759.55	87.06	6759.53	88.23	6759.52	89.91	6759.48
92.4	6759.48	93.46	6759.46	95.23	6759.44	96.57	6759.6	97.08	6759.59
97.28	6759.61	99.32	6759.61	100.35	6759.62	100.74	6759.57	101.05	6759.57
102.48	6759.47	104.91	6759.37	105.46	6759.37	106.58	6759.39	108.53	6759.44
108.98	6759.47	109.08	6759.45	110.57	6759.59	112.62	6759.82	112.94	6759.81
113.25	6759.89	114.92	6759.77	115.75	6759.72	116.59	6759.69	116.91	6759.69
117.41	6759.66	119.78	6759.77	120.75	6759.81	121.58	6759.86	123.26	6759.94
123.87	6759.96	125.75	6760.05	126.59	6760.03	128.25	6760.01	129.92	6759.98
131.6	6759.98	132.42	6759.96	134.1	6759.94	136.13	6759.98	137.16	6759.98
137.43	6759.99	138.62	6759.99	139.93	6760	140.22	6760.01	142.02	6760.01
143.13	6759.98	144.93	6759.91	145.77	6759.87	146.6	6759.85	147.3	6759.88
148.63	6759.91	150.77	6759.98	151.27	6759.98	154.94	6760.03	156.69	6760.03
157.88	6760.01	159.11	6760	161.84	6760	163.28	6760.03	164.94	6760.1
165.81	6760.13	166.81	6760.18	168.28	6760.16	169.11	6760.16	171.1	6760.14
173.28	6760.09	173.74	6760.09	175.07	6760.06	177.04	6760.03	178.06	6760.02
179.12	6760.02	180.1	6760.01	182.99	6759.95	183.17	6759.94	186.96	6759.88
188.29	6759.85	190.33	6759.73	190.92	6759.69	192.38	6759.61	196.63	6759.51
197.54	6759.52	198.86	6759.47	200.8	6759.41	203.62	6759.38	204.96	6759.37
206.36	6759.35	207.72	6759.34	208.73	6759.35	212.08	6759.4	212.82	6759.39
213.3	6759.52	213.39	6759.43	214.13	6759.6	214.72	6759.82	214.97	6759.88
215.4	6759.76	215.81	6759.71	216.04	6759.77	216.63	6760.18	216.91	6760.21
217.36	6760.38	217.47	6760.05	217.94	6760.3	218.3	6760.66	218.69	6760.43
218.96	6760.65	219.14	6760.61	220.8	6760.17	221.64	6759.96	222.03	6759.85
223.06	6759.59	224.42	6759.57	225.81	6759.54	226.64	6759.51	227.14	6759.48
228.16	6759.44	229.26	6759.76	230.21	6760.05	232.48	6760.76	233.31	6761.03
234.15	6761.26	235.81	6761.49	237.19	6761.67	238.31	6761.83	238.51	6761.85

240.44	6761.78	241.46	6761.75	242.49	6761.71	243.31	6761.61	244.53	6761.48
244.99	6761.44	246.65	6761.26	247.48	6760.95	248.62	6760.54	250.41	6760.22
250.82	6760.14	251.52	6760.06	253.72	6759.79	254.99	6759.7	256.04	6759.64
257.01	6759.57	259.16	6759.44	259.66	6759.47	259.98	6759.46	260.82	6759.49
262.3	6759.56	262.49	6759.56	264.15	6759.64	264.95	6759.63	265.83	6759.69
266.27	6759.7	267.59	6759.78	268.91	6759.85	270	6759.83	271.55	6759.78
274.11	6759.67	275.52	6759.67	275.83	6759.68	278.33	6759.68	279.48	6759.69
281.34	6759.72	282.5	6759.73	283.38	6759.75	284.78	6759.77	285.43	6759.77
288.34	6759.81	289.18	6759.83	290	6759.83	292.17	6759.8	293.34	6759.79
294.63	6759.79	295.65	6759.82	296.67	6759.84	299.74	6759.84	300.63	6759.9
301.68	6759.94	301.96	6759.94	303.84	6760.01	305.01	6760.04	306.68	6760.02
307.25	6760.02	309.18	6759.99	310.23	6760	313.86	6760.08	314.19	6760.08
315.01	6760.11	316.68	6760.21	317.52	6760.27	319.26	6760.33	320.46	6760.38
321.69	6760.45	321.79	6760.47	322.52	6760.52	325.31	6760.77	326.32	6760.79
328.39	6760.79	329.4	6760.78	332.53	6760.82	333.48	6760.84	333.68	6760.86
334.19	6760.85	335.53	6761	336.7	6761.04	338.6	6761.12	340.86	6761.23
341.84	6761.27	343.37	6761.35	344.19	6761.38	346.36	6761.49	346.9	6761.5
348.22	6761.46	350.87	6761.4	351.88	6761.4	352.18	6761.39	361.09	6761.39
363.37	6761.32	365.41	6761.21	366.2	6761.16	367.22	6761.15	368.94	6761.15
369.21	6761.14	370.88	6761.14	371.32	6761.13	375.41	6760.86	375.98	6760.83
378.38	6760.66	379.5	6760.57	379.95	6760.48	380.05	6760.53	381.71	6760.12
383.39	6759.66	383.91	6759.55	384.22	6759.44	386.55	6759.09	388.38	6759.02
390.05	6758.9	390.75	6758.86	391.53	6758.8	392.55	6758.75	394.49	6759
396.03	6759.19	396.72	6759.23	397.13	6759.34	400.89	6759.97	402	6760.24
403.39	6760.29	404.23	6760.33	405.9	6760.39	407.1	6760.42	407.7	6760.45
409.02	6760.5	409.59	6760.5	412.22	6760.46	413.24	6760.48	415.63	6760.61
419.24	6760.83	419.6	6760.84	420.4	6760.89	421.73	6760.95	422.44	6760.95
423.56	6760.89	424.49	6760.83	425.9	6760.75	426.2	6760.77	426.53	6760.75
427.65	6760.77	429.6	6760.82	435.46	6760.91	435.91	6760.91	438.1	6760.94
438.41	6760.96	440.74	6761.03	442.9	6761.08	444.71	6761.06	445.72	6761.06
445.92	6761.05	448.68	6761.03	450.91	6761	451.75	6761	453.12	6760.98
453.97	6760.95	455.28	6760.88	456.19	6760.85	457.21	6760.8	458.23	6760.76
459.25	6760.7	459.26	6760.69	460.28	6760.64	462.32	6760.52	463.34	6760.47
465.1	6760.49	465.86	6760.51	466.41	6760.51	467.59	6760.53	468.3	6760.56
470.5	6760.58	470.93	6760.59	472.81	6760.58	473.43	6760.56	474.59	6760.57
475.62	6760.59	476.76	6760.6	477.76	6760.62	479.27	6760.64	480.1	6760.66
481.72	6760.68	481.85	6760.69	483.44	6760.71	485.69	6760.76	487.6	6760.81
488.44	6760.82	488.91	6760.84	492.61	6760.75	493.62	6760.74	495.1	6760.74
495.39	6760.73	496.78	6760.73	497.09	6760.72	498.44	6760.72	498.9	6760.71
500.23	6760.71	501.77	6760.69	504.19	6760.65	505.12	6760.66	507.31	6760.64
508.45	6760.64	510.11	6760.62	510.8	6760.62	511.78	6760.6	513.44	6760.59
514.47	6760.59	516.09	6760.52	517.41	6760.48	518.45	6760.43	519.59	6760.39
520.6	6760.27	520.95	6760.24	521.79	6760.14	523.68	6759.97	524.69	6759.87
525.96	6759.86	527.98	6759.76	529.81	6759.68	530.83	6759.62	531.79	6759.55
533.46	6759.45	539.01	6759.08	539.29	6759.05	540.97	6758.94	542.62	6758.86
545.06	6758.92	545.93	6758.89	546.04	6758.91	546.69	6758.87	547.5	6759.05
548.87	6759.33	549.94	6759.56	550.28	6759.6	550.76	6759.74	551.1	6759.75
551.57	6759.71	551.69	6759.77	552.14	6759.75	552.39	6759.79	553.1	6759.78
553.32	6759.81	554.52	6759.93	554.83	6759.97	555.64	6760.03	556.46	6760.06
560.52	6760.16	561.34	6760.19	562.46	6760.21	564.59	6760.27	565.41	6760.28
568.64	6760.36	569.48	6760.36	570.72	6760.42	571.92	6760.49	573.55	6760.57
575.88	6760.7	576.8	6760.74	578.43	6760.83	579.24	6760.86	580.87	6760.97
582.49	6761.06	583.11	6761.11	585.09	6761.22	586.57	6761.31	586.68	6760.14
605.68	6753.72	616.97	6753.35	617.68	6753.33	633.68	6753.62	656.68	6754.82
685.81	6759.91	686.09	6759.96	687.68	6760.24	700.68	6760.29	710.67	6760.03
750.68	6760.1								

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
-31.46	.05	585.09	.04	686.09	.05

Bank Sta: Left	Right	Coeff Contr.	Expan.
585.09	686.09	.3	.5

Upstream Embankment side slope	=	0 horiz. to 1.0 vertical
Downstream Embankment side slope	=	0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.95
Elevation at which weir flow begins	=	
Energy head used in spillway design	=	
Spillway height used in design	=	
Weir crest shape	=	Broad Crested

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy

Selected Low Flow Methods = Energy

High Flow Method

Energy Only

Additional Bridge Parameters

Add Friction component to Momentum

Do not add Weight component to Momentum

Class B flow critical depth computations use critical depth

inside the bridge at the upstream end

Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek

REACH: lower-main split RS: 3609

INPUT

Description:

Station	Elevation	Data	num=	491											
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-31.46	6758.52	-29.13	6758.49	-28.56	6758.49	-27.2	6758.45	-24.94	6758.41						
-23.49	6758.53	-22.35	6758.53	-20.15	6758.51	-19.45	6758.49	-17.24	6758.45						
-15.98	6758.45	-14.31	6758.5	-11.81	6758.56	-8.48	6758.56	-7.64	6758.57						
-7.34	6758.55	-6.81	6758.55	-3.95	6758.48	-2.93	6758.46	-1.81	6758.46						
-1.14	6758.49	1.53	6758.54	2.36	6758.58	4.86	6758.65	6.53	6758.64						
8.52	6758.62	10.37	6758.58	10.7	6758.58	12.48	6758.54	13.2	6758.53						
14.04	6758.54	14.45	6758.56	17.37	6758.65	18.54	6758.74	20.42	6758.72						
21.54	6758.72	22.37	6758.68	23.66	6758.63	25.71	6758.66	26.73	6758.71						
27.37	6758.73	28.78	6758.8	29.66	6758.81	30.99	6758.81	32.86	6758.79						
34.04	6758.79	34.75	6758.8	36.54	6758.86	37.38	6758.88	38.92	6758.93						
39.88	6758.94	41.56	6758.94	42.06	6758.95	43.09	6758.95	43.22	6758.96						
44.2	6758.96	44.88	6758.97	46.16	6758.97	48.17	6759.02	49.89	6759.08						
51.26	6759.15	54.34	6759.36	54.88	6759.38	56.38	6759.37	57.43	6759.35						
58.23	6759.32	59.45	6759.29	60.72	6759.21	61.39	6759.18	63.22	6759.07						
63.54	6759.08	65.59	6759.08	65.72	6759.09	67.39	6759.09	68.65	6759.13						
69.67	6759.17	70.87	6759.23	73.28	6759.37	74.9	6759.48	75.73	6759.51						
77.25	6759.51	77.4	6759.5	79.07	6759.5	79.9	6759.49	84.06	6759.49						
85.01	6759.56	86.03	6759.55	87.06	6759.53	88.23	6759.52	89.91	6759.48						
92.4	6759.48	93.46	6759.46	95.23	6759.44	96.57	6759.6	97.08	6759.59						
97.28	6759.61	99.32	6759.61	100.35	6759.62	100.74	6759.57	101.05	6759.57						
102.48	6759.47	104.91	6759.37	105.46	6759.37	106.58	6759.39	108.53	6759.44						
108.98	6759.47	109.08	6759.45	110.57	6759.59	112.62	6759.82	112.94	6759.81						
113.25	6759.89	114.92	6759.77	115.75	6759.72	116.59	6759.69	116.91	6759.69						
117.41	6759.66	119.78	6759.77	120.75	6759.81	121.58	6759.86	123.26	6759.94						
123.87	6759.96	125.75	6760.05	126.59	6760.03	128.25	6760.01	129.92	6759.98						
131.6	6759.98	132.42	6759.96	134.1	6759.94	136.13	6759.98	137.16	6759.98						
137.43	6759.99	138.62	6759.99	139.93	6760	140.22	6760.01	142.02	6760.01						
143.13	6759.98	144.93	6759.91	145.77	6759.87	146.6	6759.85	147.3	6759.88						
148.63	6759.91	150.77	6759.98	151.27	6759.98	154.94	6760.03	156.69	6760.03						
157.88	6760.01	159.11	6760	161.84	6760	163.28	6760.03	164.94	6760.1						
165.81	6760.13	166.81	6760.18	168.28	6760.16	169.11	6760.16	171.1	6760.14						
173.28	6760.09	173.74	6760.09	175.07	6760.06	177.04	6760.03	178.06	6760.02						
179.12	6760.02	180.1	6760.01	182.99	6759.95	183.17	6759.94	186.96	6759.88						
188.29	6759.85	190.33	6759.73	190.92	6759.69	192.38	6759.61	196.63	6759.51						
197.54	6759.52	198.86	6759.47	200.8	6759.41	203.62	6759.38	204.96	6759.37						
206.36	6759.35	207.72	6759.34	208.73	6759.35	212.08	6759.4	212.82	6759.39						
213.3	6759.52	213.39	6759.43	214.13	6759.6	214.72	6759.82	214.97	6759.88						
215.4	6759.76	215.81	6759.71	216.04	6759.77	216.63	6760.18	216.91	6760.21						
217.36	6760.38	217.47	6760.05	217.94	6760.3	218.3	6760.66	218.69	6760.43						
218.96	6760.65	219.14	6760.61	220.8	6760.17	221.64	6759.96	222.03	6759.85						
223.06	6759.59	224.42	6759.57	225.81	6759.54	226.64	6759.51	227.14	6759.48						
228.16	6759.44	229.26	6759.76	230.21	6760.05	232.48	6760.76	233.31	6761.03						
234.15	6761.26	235.81	6761.49	237.19	6761.67	238.31	6761.83	238.51	6761.85						
240.44	6761.78	241.46	6761.75	242.49	6761.71	243.31	6761.61	244.53	6761.48						

244.99	6761.44	246.65	6761.26	247.48	6760.95	248.62	6760.54	250.41	6760.22
250.82	6760.14	251.52	6760.06	253.72	6759.79	254.99	6759.7	256.04	6759.64
257.01	6759.57	259.16	6759.44	259.66	6759.47	259.98	6759.46	260.82	6759.49
262.3	6759.56	262.49	6759.56	264.15	6759.64	264.95	6759.63	265.83	6759.69
266.27	6759.7	267.59	6759.78	268.91	6759.85	270	6759.83	271.55	6759.78
274.11	6759.67	275.52	6759.67	275.83	6759.68	278.33	6759.68	279.48	6759.69
281.34	6759.72	282.5	6759.73	283.38	6759.75	284.78	6759.77	285.43	6759.77
288.34	6759.81	289.18	6759.83	290	6759.83	292.17	6759.8	293.34	6759.79
294.63	6759.79	295.65	6759.82	296.67	6759.84	299.74	6759.84	300.63	6759.9
301.68	6759.94	301.96	6759.94	303.84	6760.01	305.01	6760.04	306.68	6760.02
307.25	6760.02	309.18	6759.99	310.23	6760	313.86	6760.08	314.19	6760.08
315.01	6760.11	316.68	6760.21	317.52	6760.27	319.26	6760.33	320.46	6760.38
321.69	6760.45	321.79	6760.47	322.52	6760.52	325.31	6760.77	326.32	6760.79
328.39	6760.79	329.4	6760.78	332.53	6760.82	333.48	6760.84	333.68	6760.86
334.19	6760.85	335.53	6761	336.7	6761.04	338.6	6761.12	340.86	6761.23
341.84	6761.27	343.37	6761.35	344.19	6761.38	346.36	6761.49	346.9	6761.5
348.22	6761.46	350.87	6761.4	351.88	6761.4	352.18	6761.39	361.09	6761.39
363.37	6761.32	365.41	6761.21	366.2	6761.16	367.22	6761.15	368.94	6761.15
369.21	6761.14	370.88	6761.14	371.32	6761.13	375.41	6760.86	375.98	6760.83
378.38	6760.66	379.5	6760.57	379.95	6760.48	380.05	6760.53	381.71	6760.12
383.39	6759.66	383.91	6759.55	384.22	6759.44	386.55	6759.09	388.38	6759.02
390.05	6758.9	390.75	6758.86	391.53	6758.8	392.55	6758.75	394.49	6759
396.03	6759.19	396.72	6759.23	397.13	6759.34	400.89	6759.97	402	6760.24
403.39	6760.29	404.23	6760.33	405.9	6760.39	407.1	6760.42	407.7	6760.45
409.02	6760.5	409.59	6760.5	412.22	6760.46	413.24	6760.48	415.63	6760.61
419.24	6760.83	419.6	6760.84	420.4	6760.89	421.73	6760.95	422.44	6760.95
423.56	6760.89	424.49	6760.83	425.9	6760.75	426.2	6760.77	426.53	6760.75
427.65	6760.77	429.6	6760.82	435.46	6760.91	435.91	6760.91	438.1	6760.94
438.41	6760.96	440.74	6761.03	442.9	6761.08	444.71	6761.06	445.72	6761.06
445.92	6761.05	448.68	6761.03	450.91	6761	451.75	6761	453.12	6760.98
453.97	6760.95	455.28	6760.88	456.19	6760.85	457.21	6760.8	458.23	6760.76
459.25	6760.7	459.62	6760.69	460.28	6760.64	462.32	6760.52	463.34	6760.47
465.1	6760.49	465.86	6760.51	466.41	6760.51	467.59	6760.53	468.3	6760.56
470.5	6760.58	470.93	6760.59	472.81	6760.58	473.43	6760.56	474.59	6760.57
475.62	6760.59	476.76	6760.6	477.76	6760.62	479.27	6760.64	480.1	6760.66
481.72	6760.68	481.85	6760.69	483.44	6760.71	485.69	6760.76	487.6	6760.81
488.44	6760.82	488.91	6760.84	492.61	6760.75	493.62	6760.74	495.1	6760.74
495.39	6760.73	496.78	6760.73	497.09	6760.72	498.44	6760.72	498.9	6760.71
500.23	6760.71	501.77	6760.69	504.19	6760.65	505.12	6760.66	507.31	6760.64
508.45	6760.64	510.11	6760.62	510.8	6760.62	511.78	6760.6	513.44	6760.59
514.47	6760.59	516.09	6760.52	517.41	6760.48	518.45	6760.43	519.59	6760.39
520.6	6760.27	520.95	6760.24	521.79	6760.14	523.68	6759.97	524.69	6759.87
525.96	6759.86	527.98	6759.76	529.81	6759.68	530.83	6759.62	531.79	6759.55
533.46	6759.45	539.01	6759.08	539.29	6759.05	540.97	6758.94	542.62	6758.86
545.06	6758.92	545.93	6758.89	546.04	6758.91	546.69	6758.87	547.5	6759.05
548.87	6759.33	549.94	6759.56	550.28	6759.6	550.76	6759.74	551.1	6759.75
551.57	6759.71	551.69	6759.77	552.14	6759.75	552.39	6759.79	553.1	6759.78
553.32	6759.81	554.52	6759.93	554.83	6759.97	555.64	6760.03	556.46	6760.06
560.52	6760.16	561.34	6760.19	562.46	6760.21	564.59	6760.27	565.41	6760.28
568.64	6760.36	569.48	6760.36	570.72	6760.42	571.92	6760.49	573.55	6760.57
575.88	6760.7	576.8	6760.74	578.43	6760.83	579.24	6760.86	580.87	6760.97
582.49	6761.06	583.11	6761.11	585.09	6761.22	586.57	6761.31	586.68	6760.14
605.68	6753.72	616.97	6753.35	617.68	6753.33	633.68	6753.62	656.68	6754.82
685.81	6759.91	686.09	6759.96	687.68	6760.24	700.68	6760.29	710.67	6760.03
750.68	6760.1								

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
-31.46	.05	585.09	.04

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
585.09	686.09	221.26	221.27	221.26		.3	.5

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3379

INPUT
 Description:

Station Elevation Data				num=	490				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-157.79	6759.47	-156.41	6759.49	-153.79	6759.56	-151.32	6759.54	-151	6759.41
-149.62	6759.45	-149.37	6759.45	-147.98	6759.48	-145.97	6759.48	-145.51	6759.47
-143.32	6759.47	-142.62	6759.46	-142.27	6759.44	-141.66	6759.44	-141.22	6759.43
-140.69	6759.43	-139.73	6759.41	-138.93	6759.41	-138.76	6759.4	-138.07	6759.4
-137.93	6759.39	-137.02	6759.44	-136.84	6759.44	-132.98	6759.48	-131.76	6759.48
-131.05	6759.5	-130.71	6759.5	-129.88	6759.53	-129.66	6759.53	-129.03	6759.55
-128.02	6759.45	-127.27	6759.47	-126.97	6759.47	-126.3	6759.49	-125.92	6759.49
-125.34	6759.51	-124.87	6759.51	-124.11	6759.53	-123.82	6759.53	-123.1	6759.55
-122.44	6759.55	-122.1	6759.56	-120.52	6759.56	-120.09	6759.57	-118.57	6759.57
-118.08	6759.58	-117.52	6759.56	-116.66	6759.54	-115.7	6759.51	-115.42	6759.51
-113.05	6759.44	-112.26	6759.46	-111.84	6759.48	-110.16	6759.53	-109.91	6759.53
-109.11	6759.56	-108.95	6759.56	-108.06	6759.59	-107.1	6759.6	-107.02	6759.61
-105.96	6759.62	-105.09	6759.64	-104	6759.65	-103.86	6759.66	-102.81	6759.67
-102.2	6759.69	-101.76	6759.69	-100.98	6759.71	-100.7	6759.71	-99.97	6759.73
-98.97	6759.74	-98.34	6759.76	-97.55	6759.76	-97.37	6759.75	-94.48	6759.69
-93.94	6759.67	-93.52	6759.67	-92.93	6759.65	-92.55	6759.66	-91.93	6759.66
-91.59	6759.67	-90.92	6759.67	-90.62	6759.68	-89.92	6759.68	-89.66	6759.69
-88.7	6759.69	-87.73	6759.7	-87.05	6759.73	-86.77	6759.73	-84.94	6759.75
-84.84	6759.76	-82.84	6759.78	-81.95	6759.76	-81.79	6759.75	-80.74	6759.75
-80.02	6759.74	-78.85	6759.74	-78.64	6759.73	-77.59	6759.73	-76.84	6759.74
-76.16	6759.76	-75.2	6759.77	-74.44	6759.79	-74.23	6759.79	-72.82	6759.82
-71.82	6759.82	-71.34	6759.81	-71.28	6759.82	-70.81	6759.81	-69.8	6759.81
-69.41	6759.8	-68.13	6759.8	-66.52	6759.77	-66.03	6759.77	-64.98	6759.75
-64.59	6759.75	-62.88	6759.73	-61.7	6759.73	-60.78	6759.72	-59.73	6759.72
-57.84	6759.7	-56.87	6759.71	-56.73	6759.72	-55.72	6759.73	-55.52	6759.74
-54.72	6759.74	-54.47	6759.75	-53.42	6759.75	-52.71	6759.76	-52.37	6759.75
-51.7	6759.75	-51.32	6759.74	-50.7	6759.74	-49.69	6759.72	-49.16	6759.72
-48.2	6759.7	-47.68	6759.7	-46.67	6759.68	-46.07	6759.68	-45.3	6759.67
-45.02	6759.66	-43.96	6759.66	-43.66	6759.65	-42.65	6759.65	-41.86	6759.62
-40.81	6759.6	-40.48	6759.6	-39.76	6759.57	-39.52	6759.57	-38.71	6759.6
-38.55	6759.6	-37.59	6759.63	-36.81	6759.66	-35.66	6759.71	-35.56	6759.72
-34.51	6759.76	-33.73	6759.73	-33.46	6759.73	-32.77	6759.71	-31.8	6759.7
-30.84	6759.7	-30.58	6759.69	-29.58	6759.69	-28.91	6759.67	-28.57	6759.67
-27.57	6759.65	-27.15	6759.66	-26.56	6759.66	-25.56	6759.68	-25.05	6759.68
-24.55	6759.69	-24.09	6759.71	-24	6759.7	-23.13	6759.73	-22.54	6759.76
-21.9	6759.75	-20.85	6759.72	-20.53	6759.72	-19.8	6759.7	-19.27	6759.7
-18.75	6759.68	-18.3	6759.68	-17.7	6759.69	-16.38	6759.69	-15.59	6759.7
-14.45	6759.7	-13.38	6759.71	-12.44	6759.68	-11.55	6759.71	-11.39	6759.71
-8.66	6759.79	-8.24	6759.8	-7.7	6759.79	-7.19	6759.8	-6.14	6759.8
-5.77	6759.81	-4.44	6759.81	-4.04	6759.82	-2.99	6759.82	-2.88	6759.83
-2.43	6759.83	-1.93	6759.84	-.41	6759.84	.02	6759.85	1.6	6759.85
1.95	6759.86	4.84	6759.86	5.42	6759.85	7.73	6759.85	8.7	6759.84
9.62	6759.82	10.05	6759.82	10.67	6759.81	12.55	6759.79	12.66	6759.78
17.37	6759.78	17.69	6759.77	18.03	6759.78	18.34	6759.76	18.69	6759.77
19.08	6759.75	19.3	6759.75	20.13	6759.73	20.27	6759.72	21.23	6759.7
21.71	6759.68	22.72	6759.66	23.16	6759.67	23.28	6759.65	23.72	6759.67
24.33	6759.68	25.09	6759.7	26.74	6759.75	27.02	6759.75	27.49	6759.77
27.98	6759.77	28.54	6759.82	29.76	6759.82	29.91	6759.81	32.8	6759.81
33.79	6759.78	34.84	6759.76	35.69	6759.74	35.89	6759.74	36.94	6759.71
37.8	6759.7	38.59	6759.65	39.04	6759.63	39.55	6759.62	39.81	6759.6
41.15	6759.56	41.48	6759.54	42.83	6759.5	43.25	6759.51	43.83	6759.51
44.37	6759.53	44.84	6759.53	45.34	6759.55	47.27	6759.59	47.86	6759.61
48.86	6759.58	49.19	6759.58	49.55	6759.56	50.16	6759.55	50.6	6759.55
52.7	6759.51	53.05	6759.51	54.02	6759.48	54.98	6759.46	56.91	6759.4
57.87	6759.38	58.84	6759.29	59.01	6759.28	59.92	6759.2	60.06	6759.18
60.77	6759.19	61.73	6759.17	62.94	6759.17	64.26	6759.08	65.96	6758.98
67.97	6758.84	68.48	6758.81	68.98	6758.77	69.52	6758.74	69.98	6758.7
70.99	6758.63	71.99	6758.57	72.34	6758.54	73.3	6758.48	73.72	6758.46
74.77	6758.4	75.23	6758.38	75.82	6758.37	76.19	6758.35	77.92	6758.3
78.97	6758.26	79.09	6758.25	81.01	6758.17	81.04	6758.16	81.98	6758.16
82.05	6758.15	83.18	6758.14	84.23	6758.11	85.84	6758.08	86.33	6758.06
86.8	6758.03	87.08	6758.03	87.76	6757.99	89.09	6757.95	89.48	6757.93
90.09	6757.92	90.53	6757.9	91.1	6757.89	91.58	6757.87	91.62	6757.88
92.11	6757.87	92.63	6757.87	93.11	6757.86	93.68	6757.86	94.12	6757.85
94.73	6757.85	95.48	6757.84	95.79	6757.83	96.44	6757.83	96.84	6757.82
97.41	6757.82	98.14	6757.81	98.37	6757.8	99.34	6757.78	100.3	6757.75
101.04	6757.74	101.26	6757.73	102.23	6757.71	103.19	6757.68	103.78	6757.64
105.12	6757.54	105.24	6757.54	106.09	6757.48	106.29	6757.46	107.34	6757.39
108.01	6757.33	108.39	6757.31	109.44	6757.24	109.94	6757.2	110.21	6757.19

111.21	6757.12	111.55	6757.09	112.22	6757.05	112.6	6757.02	112.84	6757.02
113.22	6756.99	113.65	6757.12	114.23	6757.28	114.76	6757.44	115.24	6757.57
115.75	6757.72	116.8	6758.02	118.25	6758.44	118.9	6758.59	119.59	6758.74
119.95	6758.83	121.27	6759.12	121.51	6759.18	122.28	6759.35	123.28	6759.58
124.16	6759.6	125.21	6759.64	125.37	6759.64	127.3	6759.7	128.26	6759.74
128.36	6759.74	129.23	6759.81	130.32	6759.89	130.46	6759.91	131.33	6759.97
132.12	6760.04	132.33	6760.05	133.34	6760.13	134.34	6760.12	134.66	6760.11
135.35	6760.11	136.35	6760.09	136.76	6760.09	136.94	6760.08	137.36	6760.08
137.82	6760.07	138.37	6760.07	140.38	6759.99	140.97	6759.96	141.38	6759.95
142.39	6759.9	143.07	6759.88	143.39	6759.86	144.12	6759.87	147.55	6759.87
148.32	6759.86	149.48	6759.86	150.64	6759.85	153.33	6759.82	153.58	6759.82
154.3	6759.79	154.63	6759.77	155.68	6759.72	156.23	6759.69	156.73	6759.67
158.16	6759.59	159.12	6759.56	159.88	6759.55	160.08	6759.56	160.49	6759.55
160.93	6759.56	162.01	6759.56	162.5	6759.57	163.03	6759.57	163.51	6759.58
163.94	6759.57	164.51	6759.57	165.13	6759.56	165.87	6759.54	166.19	6759.54
167.53	6759.5	167.8	6759.5	168.29	6759.48	168.76	6759.47	169.34	6759.43
169.73	6759.42	170.55	6759.37	170.69	6759.37	171.66	6759.33	172.49	6759.3
173.58	6759.27	174.07	6759.24	174.55	6759.22	174.59	6759.21	175.51	6759.17
176.48	6759.11	177.44	6759.06	178.59	6758.99	179.37	6758.95	180.33	6758.91
180.9	6758.88	181.3	6758.89	181.95	6758.87	183.62	6758.87	184.63	6758.83
185.1	6758.82	185.16	6758.81	185.63	6758.8	186.12	6758.76	186.15	6758.78
186.64	6758.75	187.2	6758.7	188.65	6758.6	189.65	6758.55	190.66	6758.51
190.94	6758.49	191.91	6758.45	192.45	6758.42	192.67	6758.4	193.68	6758.35
194.8	6758.2	195	6758.2	198.83	6756.95	198.84	6756.95	220	6751.3
500	6751.3	524.31	6757.33	524.89	6757.33	526.31	6757.68	540.27	6757.51
608.71	6756.34	642.43	6755.84	643.3	6755.83	650.36	6753.44	651.96	6752.9
652.78	6752.33	671.92	6752.33	672.64	6752.32	690.41	6753.19	690.65	6753.29
705.51	6759.57	706.07	6759.8	733.15	6764.22	733.58	6764.29	736.32	6764.59
736.74	6764.64	760.78	6764.35	805.54	6765.34	806.36	6765.6	822.2	6766.03

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-157.79	.05	643.3	.04	706.07	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

643.3	706.07	315	355.57	350	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-157.79	525	6758.5	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 3035

INPUT

Description:

Station Elevation Data		num= 490							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-149.17	6759.59	-146.66	6759.62	-145.35	6759.64	-144.58	6759.65	-142.73	6759.64
-141.34	6759.54	-140.72	6759.56	-140.34	6759.56	-139.34	6759.59	-138.88	6759.59
-138.8	6759.58	-137.34	6759.58	-136.88	6759.57	-135.34	6759.57	-134.96	6759.56
-134.34	6759.56	-133.05	6759.52	-132.6	6759.5	-132.33	6759.5	-131.33	6759.46
-131.13	6759.46	-130.51	6759.43	-129.47	6759.42	-128.42	6759.46	-127.38	6759.51
-127.29	6759.52	-126.32	6759.56	-125.37	6759.61	-124.41	6759.62	-123.45	6759.62
-123.33	6759.61	-122.15	6759.61	-121.53	6759.6	-120.53	6759.6	-119.69	6759.57
-119.48	6759.57	-118.73	6759.54	-118.44	6759.52	-117.77	6759.5	-117.39	6759.48
-116.81	6759.5	-116.59	6759.49	-116.35	6759.5	-114.59	6759.53	-112.98	6759.53
-112.16	6759.56	-112.02	6759.54	-111.12	6759.59	-110.59	6759.61	-109.59	6759.67
-109.03	6759.65	-107.98	6759.63	-106.58	6759.59	-106.26	6759.59	-104.58	6759.54
-102.42	6759.54	-101.71	6759.53	-100.66	6759.56	-100.5	6759.57	-99.62	6759.59
-99.55	6759.6	-98.73	6759.63	-97.63	6759.68	-97.53	6759.68	-96.48	6759.73
-95.44	6759.74	-94.75	6759.76	-94.39	6759.76	-93.35	6759.78	-92.83	6759.78
-91.26	6759.81	-90.21	6759.82	-89.58	6759.84	-88.99	6759.83	-87.07	6759.79
-86.57	6759.79	-85.16	6759.76	-84.57	6759.74	-83.57	6759.76	-83.24	6759.76
-82.28	6759.78	-81.85	6759.78	-80.8	6759.8	-80.36	6759.8	-79.4	6759.81
-78.44	6759.85	-77.67	6759.87	-76.52	6759.91	-75.57	6759.95	-74.53	6759.96
-73.64	6759.94	-73.48	6759.93	-72.68	6759.92	-72.44	6759.91	-71.72	6759.9
-70.76	6759.88	-70.56	6759.87	-69.81	6759.87	-69.56	6759.86	-69.3	6759.87
-68.85	6759.87	-67.21	6759.9	-66.56	6759.9	-65.56	6759.92	-65.12	6759.92

-65.01	6759.93	-64.56	6759.93	-64.07	6759.94	-59.56	6759.94	-58.85	6759.92
-58.29	6759.92	-57.56	6759.9	-56.37	6759.89	-55.41	6759.87	-52.54	6759.84
-52.11	6759.83	-50.48	6759.83	-49.55	6759.82	-49.44	6759.83	-48.7	6759.84
-47.74	6759.87	-46.78	6759.89	-46.55	6759.89	-45.26	6759.93	-44.86	6759.93
-44.21	6759.95	-43.9	6759.94	-43.55	6759.95	-42.12	6759.95	-41.98	6759.94
-40.03	6759.94	-39.55	6759.93	-39.11	6759.93	-38.99	6759.91	-38.55	6759.9
-37.55	6759.9	-37.19	6759.89	-36.23	6759.89	-35.85	6759.88	-34.8	6759.88
-34.31	6759.87	-33.76	6759.83	-31.67	6759.77	-31.43	6759.77	-30.62	6759.75
-30.47	6759.74	-29.58	6759.72	-28.53	6759.73	-27.59	6759.78	-26.63	6759.82
-25.67	6759.87	-24.54	6759.92	-23.76	6759.92	-23.54	6759.91	-22.54	6759.91
-22.26	6759.9	-21.21	6759.9	-20.88	6759.89	-19.92	6759.89	-19.54	6759.88
-18.08	6759.88	-18	6759.89	-17.54	6759.89	-17.04	6759.9	-16.54	6759.9
-16.08	6759.91	-15.54	6759.91	-14.53	6759.93	-13.2	6759.93	-12.85	6759.94
-12.24	6759.93	-11.53	6759.91	-11.28	6759.91	-9.71	6759.88	-8.67	6759.88
-8.53	6759.89	-6.58	6759.91	-5.53	6759.91	-5.48	6759.92	-4.49	6759.92
-3.61	6759.91	-2.65	6759.91	-2.4	6759.9	-1.69	6759.93	-1.35	6759.93
-.31	6759.96	.23	6759.98	.47	6759.98	.74	6760	1.79	6760.04
2.83	6760.09	3.11	6760.08	3.47	6760.1	4.48	6760.1	4.92	6760.11
5.48	6760.11	8.06	6760.06	9.1	6760.06	9.48	6760.07	12.48	6760.07
12.7	6760.06	15.58	6760.06	16.54	6760.05	17.47	6760.03	17.83	6760.03
18.46	6760.01	19.42	6760	19.56	6759.99	20.37	6759.98	20.48	6759.97
22.29	6759.97	22.49	6759.96	25.83	6759.96	27.92	6760.02	28.97	6760.04
29.01	6760.02	29.49	6760.03	29.97	6760.02	30.01	6760.01	30.49	6760
31.06	6760	31.49	6759.99	32.49	6759.99	32.85	6759.98	33.49	6759.98
33.81	6759.99	34.19	6759.97	35.24	6760	35.72	6760.02	36.68	6760.07
37.64	6760.13	38.6	6760.18	39.42	6760.23	40.52	6760.22	43.4	6760.13
43.6	6760.13	44.65	6760.09	45.5	6760.08	46.74	6760	47.24	6759.98
47.78	6759.94	48.2	6759.92	49.87	6759.82	50.11	6759.82	50.5	6759.8
51.5	6759.82	52.03	6759.82	52.99	6759.84	53.5	6759.84	55.5	6759.88
57.19	6759.83	57.5	6759.83	58.24	6759.81	58.75	6759.79	59.71	6759.77
60.33	6759.75	60.67	6759.75	61.63	6759.72	62.42	6759.7	63.46	6759.68
63.55	6759.67	64.51	6759.65	65.56	6759.62	66.42	6759.53	66.6	6759.52
67.38	6759.45	67.65	6759.42	68.69	6759.33	70.26	6759.18	70.78	6759.14
71.22	6759.12	71.51	6759.09	72.87	6759.01	73.92	6758.94	74.51	6758.91
75.51	6758.84	76.01	6758.82	76.02	6758.81	76.98	6758.75	77.05	6758.74
78.1	6758.67	78.9	6758.61	79.15	6758.6	80.52	6758.5	81.77	6758.46
82.73	6758.44	85.61	6758.35	86.57	6758.33	87.51	6758.28	88.55	6758.24
90.65	6758.14	91.52	6758.11	92.33	6758.1	92.74	6758.08	93.52	6758.07
94.52	6758.04	94.83	6758.04	95.52	6758.02	96.92	6757.95	97.12	6757.95
98.08	6757.91	99.01	6757.89	99.04	6757.88	99.53	6757.87	100	6757.85
100.53	6757.84	100.96	6757.84	101.1	6757.85	101.92	6757.85	102.14	6757.86
102.88	6757.85	103.53	6757.85	104.53	6757.83	105.28	6757.83	106.53	6757.78
106.72	6757.78	107.37	6757.75	108.42	6757.72	108.64	6757.72	109.46	6757.7
109.6	6757.69	110.55	6757.67	111.51	6757.62	111.55	6757.61	112.47	6757.56
112.6	6757.56	113.43	6757.5	113.64	6757.49	114.39	6757.43	115.35	6757.37
116.31	6757.29	116.54	6757.28	117.27	6757.22	118.23	6757.15	118.87	6757.11
119.19	6757.08	119.92	6757.04	120.54	6757	121.11	6757.14	121.54	6757.26
122.07	6757.39	123.03	6757.66	123.05	6757.65	124.1	6757.95	125.14	6758.26
125.9	6758.47	126.19	6758.54	126.54	6758.64	127.82	6758.97	128.28	6759.1
128.78	6759.21	129.54	6759.39	129.74	6759.43	130.37	6759.58	130.7	6759.62
131.42	6759.64	132.46	6759.68	132.62	6759.68	133.51	6759.71	133.58	6759.72
134.39	6759.74	134.55	6759.75	135.5	6759.78	135.6	6759.79	136.46	6759.83
137.42	6759.89	137.69	6759.9	138.73	6759.96	139.34	6760.02	139.55	6760.03
140.55	6760.11	140.82	6760.1	141.55	6760.1	141.87	6760.09	142.92	6760.09
143.17	6760.08	143.96	6760.08	144.13	6760.07	145.01	6760.06	145.55	6760.06
147.01	6760	147.55	6759.97	147.97	6759.96	148.55	6759.93	149.19	6759.91
150.23	6759.86	150.85	6759.85	151.28	6759.86	152.55	6759.86	152.77	6759.87
153.73	6759.87	154.41	6759.88	155.56	6759.88	155.64	6759.87	156.6	6759.87
157.55	6759.86	158.6	6759.86	159.48	6759.85	160.44	6759.85	161.4	6759.81
162.36	6759.76	162.56	6759.76	163.32	6759.72	164.56	6759.67	165.24	6759.63
166.2	6759.6	166.56	6759.6	167.16	6759.58	168.01	6759.56	169.56	6759.53
170.04	6759.54	170.1	6759.52	171.14	6759.52	171.57	6759.51	172.57	6759.51
172.91	6759.5	173.57	6759.5	173.87	6759.49	174.57	6759.49	174.83	6759.48
175.57	6759.48	175.79	6759.46	176.57	6759.42	177.41	6759.37	177.71	6759.36
178.46	6759.32	178.67	6759.3	179.5	6759.26	180.55	6759.2	181.6	6759.15
182.51	6759.1	182.64	6759.1	183.47	6759.05	184.43	6759	185.38	6758.96
185.57	6758.94	186.82	6758.89	187.3	6758.86	187.87	6758.84	188.57	6758.8
189.57	6758.76	189.96	6758.73	190.18	6758.73	190.58	6758.7	191.14	6758.68
192.05	6758.66	192.1	6758.65	192.58	6758.64	193.06	6758.62	193.58	6758.61
194.58	6758.57	194.98	6758.56	195.19	6758.54	195.58	6758.53	196.58	6758.48
196.9	6758.47	197.58	6758.43	198.82	6758.38	199.78	6758.33	200	6758.33

Station Elevation Data				num= 381						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
-429.47	6760.51	-207.29	6780.22	-205.84	6759.63	-203.12	6759.3	-202.79	6759.25	
-200.54	6758.99	-199.35	6758.91	-197.71	6758.78	-196.1	6758.67	-195.67	6758.63	
-193.78	6758.61	-193.61	6758.6	-191.94	6758.58	-191.12	6758.6	-190.22	6758.59	
-188.63	6758.51	-187.64	6758.49	-185.51	6758.43	-182.42	6758.28	-180.77	6758.18	
-179.93	6758.16	-178.19	6758.16	-177.44	6758.15	-175.61	6758.15	-175.34	6758.14	
-173.89	6758.14	-173.71	6758.13	-172.17	6758.13	-170.45	6758.12	-169.59	6758.09	
-168.73	6758.08	-167.21	6758.03	-165.29	6757.98	-164.16	6757.94	-161.28	6757.88	
-160.04	6757.86	-158.42	6757.71	-155.06	6757.42	-151.33	6757.15	-149.93	6757.1	
-146.88	6758.58	-145.86	6759.08	-144.85	6759.56	-143.65	6759.68	-141.22	6759.94	
-139.76	6760.09	-138.9	6760.05	-136.41	6759.99	-134.68	6759.94	-130.91	6759.77	
-129.19	6759.7	-128.33	6759.68	-127.71	6759.65	-126.94	6759.65	-125.75	6759.67	
-124.52	6759.68	-123.5	6759.72	-121.37	6759.82	-119.73	6759.88	-119.43	6759.9	
-117.15	6759.61	-115.8	6759.43	-114.35	6759.27	-114.03	6759.17	-113.71	6759.16	
-113.33	6759.03	-109.27	6758.21	-107.24	6757.94	-106.57	6757.84	-104.19	6757.51	
-102.15	6756.71	-101.68	6756.6	-101.59	6756.49	-99.08	6755.84	-96.05	6755.36	
-95.66	6755.25	-95.38	6755.25	-94.02	6754.89	-91.65	6754.68	-89.95	6754.54	
-88.94	6754.44	-87.93	6754.43	-86.67	6754.4	-86.21	6754.4	-83.63	6754.35	
-82.37	6754.35	-81.91	6754.34	-80.19	6754.34	-79.79	6754.33	-78.47	6754.33	
-77.97	6754.32	-75.03	6754.31	-74.71	6754.3	-73.31	6754.3	-73	6754.29	
-71.59	6754.29	-71.23	6754.28	-69.87	6754.28	-69.62	6754.27	-68.02	6754.27	
-64.29	6754.24	-63	6754.24	-62.51	6754.23	-59.32	6754.22	-57.43	6754.2	
-56.12	6754.2	-55.59	6754.19	-54.34	6754.19	-51.33	6754.17	-48.13	6754.06	
-46.88	6754.05	-45.23	6754.02	-42.18	6753.99	-40.65	6753.97	-39.79	6753.95	
-34.45	6753.89	-31.96	6753.85	-30.72	6753.84	-27.95	6753.8	-26.67	6753.79	
-25.75	6753.77	-24.31	6753.76	-23.45	6753.74	-22.02	6753.73	-21.1	6753.71	
-19.82	6753.7	-15.8	6753.65	-14	6753.62	-12.7	6753.62	-12.28	6753.61	
-9.58	6753.61	-8.84	6753.6	-6.26	6753.6	-5.85	6753.59	-2.82	6753.59	
-2.53	6753.58	.62	6753.58	1.18	6753.57	4.06	6753.57	4.1	6753.56	
6.75	6753.56	7.49	6753.55	14.75	6753.55	15.23	6753.56	20.85	6753.56	
21.25	6753.57	23.99	6753.57	24.69	6753.58	26.94	6753.58	27.27	6753.59	
29.99	6753.59	30.21	6753.6	32.7	6753.6	33.04	6753.61	35.86	6753.61	
36.09	6753.62	40.17	6753.62	41.88	6753.6	43.89	6753.59	45.13	6753.57	
46.18	6753.57	48.76	6753.54	50.1	6753.53	50.16	6753.53	51.6	6753.53	
51.87	6753.52	53.74	6753.52	53.99	6753.51	56.21	6753.51	56.37	6753.5	
58.38	6753.5	58.76	6753.49	60.57	6753.49	61.15	6753.48	62.71	6753.	

116.2	6753.2	116.48	6753.19	119.09	6753.19	119.6	6753.18	121.26	6753.18
121.98	6753.17	124.37	6753.17	124.87	6753.16	127.04	6753.16	127.48	6753.15
129.21	6753.15	129.31	6753.14	131.53	6753.14	132.1	6753.13	133.92	6753.13
134.27	6753.12	136.65	6753.12	137.16	6753.11	139.33	6753.11	139.88	6753.1
145.85	6753.1	147.65	6753.5	149.31	6753.9	150.62	6754.2	151.81	6754.49
153.15	6755.21	153.79	6755.54	155.23	6756.32	156.14	6756.8	157.78	6757.68
160.29	6757.91	161.01	6757.99	161.35	6758.01	163.74	6758.24	165.99	6758.29
167.83	6758.36	169.66	6758.44	172.58	6758.44	173.2	6758.45	174.48	6758.45
174.75	6758.46	176.62	6758.45	177.64	6758.46	179.25	6758.46	179.81	6758.47
181.97	6758.48	182.83	6758.5	184.87	6758.53	185.59	6758.53	187.6	6758.56
188.79	6758.57	191.37	6758.61	193.5	6758.63	197.88	6758.75	199.53	6758.8
201.49	6758.95	202.67	6759.05	203.66	6759.12	205.49	6759.27	207.88	6759.45
209.07	6759.55	209.44	6759.56	210.75	6759.68	210.89	6759.66	211.84	6759.75
212.65	6759.78	213.84	6759.84	219.18	6760.07	220.99	6760.16	222.84	6760.24
224.4	6760.3	226.51	6760.37	228.35	6760.44	230.4	6760.51	232.01	6760.54
234.74	6760.6	237.51	6760.68	239.35	6760.72	240.52	6760.76	241.97	6760.79
247.03	6760.93	247.25	6760.94	249.19	6760.91	250.35	6760.88	250.83	6760.88
252.19	6760.85	257.98	6760.75	260.04	6760.71	260.37	6760.69	262.2	6760.63
262.76	6760.62	263.83	6760.58	265.24	6760.53	265.83	6760.52	266.94	6760.48
270.18	6760.25	271.03	6760.2	272.36	6759.86	275.74	6759.02	275.98	6758.99
276.92	6758.73	277.43	6758.67	277.86	6758.5	278.25	6758.42	278.89	6758.34
279.28	6758.21	282.82	6757.51	283.91	6757.36	285.18	6757.2	285.79	6757.11
289.77	6756.96	291.08	6756.92	294.85	6756.77	296.3	6756.67	298.48	6756.54
300.52	6756.4	304.06	6756.18	305.73	6756.08	306.52	6756.05	307.6	6755.94
311.14	6755.55	312.99	6755.34	318.21	6754.98	318.85	6755	320.24	6755.02
320.97	6755.06	323.49	6755.23	327.5	6755.34	330.01	6755.27	331.85	6755.43
332.91	6755.51	334.62	6755.66	338.57	6755.98	339.45	6756.06	339.84	6756.07
340.92	6756.18	341.29	6756.17	341.81	6756.23	342.74	6756.23	342.99	6756.17
345.35	6755.96	347.09	6755.79	347.82	6755.73	349.27	6755.59	349.99	6755.53
350.01	6750.6	361.23	6749.18	372.67	6747.74	382.52	6747.3	387.62	6747.51
395.33	6747.83	402.22	6751.5	403.01	6751.53	414.23	6751.94	451.48	6753.29
459.36	6754.98	468.23	6755.63	478.25	6755.95	607.14	6760	607.6	6760.02
695.8	6764								

Manning's n Values num= 5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-429.47	.1	-205.84	.016	-119.43	.05	350.01	.04	403.01	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

350.01	403.01	129.59	130.14	129.59	.3	.5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-429.47	-120	6758	T

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 2539

INPUT

Description:

Station Elevation Data		num= 368							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-362.02	6780.22	-162.24	6780.22	-161.13	6760.02	-159.08	6759.87	-158.14	6759.81
-157.16	6759.73	-156.02	6759.65	-154.62	6759.61	-152.79	6759.57	-150.92	6759.52
-148.88	6759.49	-148.7	6759.48	-146.16	6759.45	-145.29	6759.42	-144.01	6759.35
-141.92	6759.26	-140.71	6759.2	-140.23	6759.22	-138.87	6759.25	-136.3	6759.33
-135.6	6759.32	-133.45	6759.32	-130.5	6759.29	-130.07	6759.22	-129.87	6759.22
-128.37	6759.01	-125.39	6758.61	-123.44	6758.55	-122.45	6758.53	-120.87	6758.48
-118.04	6758.43	-117.02	6758.42	-116.52	6758.44	-114.45	6758.44	-111.44	6758.42
-110.59	6758.39	-110.59	6758.41	-109.74	6758.38	-106.73	6758.23	-104.98	6758.13
-103.82	6758.15	-100.43	6758.17	-97.74	6758.15	-95.79	6758.15	-94.77	6758.14
-92.6	6758.07	-91.31	6758.02	-89.66	6757.94	-88.25	6757.82	-87.46	6757.74
-84.56	6757.49	-82.65	6757.14	-79.45	6756.54	-78.46	6756.93	-76.39	6757.72
-75.89	6757.92	-74.35	6758.51	-74.18	6758.54	-72.03	6759.01	-71.64	6759.11
-70.26	6759.42	-69.24	6759.66	-65.61	6759.84	-64.32	6759.89	-63.43	6759.88
-60.47	6759.81	-59.03	6759.77	-58.47	6759.77	-54.7	6759.71	-53.86	6759.68
-52.75	6759.68	-51.32	6759.65	-49.62	6759.63	-48.9	6759.61	-47.8	6759.61
-46.33	6759.59	-44.74	6759.59	-43.57	6759.58	-39.64	6759.5	-37.59	6759.49
-37.33	6759.5	-36.05	6759.5	-33.48	6759.52	-31.84	6759.5	-30.99	6759.48

-29.62	6759.47	-28.68	6759.45	-26.76	6759.43	-25.76	6759.43	-24.48	6759.41
-23.19	6759.4	-21.91	6759.36	-20.62	6759.33	-19.34	6759.26	-18.05	6759.2
-16.15	6759.13	-14.2	6759.05	-13.21	6759.02	-11.52	6758.92	-10.67	6758.86
-9.06	6758.77	-7.99	6758.67	-7.28	6758.46	-6.97	6758.33	-5.59	6757.9
-2.88	6757.04	-1.86	6757.19	-1.36	6757.08	-1.34	6757.26	.34	6757.01
2.22	6756.74	4.57	6757.77	5.28	6758.09	6.37	6758.54	7.33	6758.95
9.37	6759.23	10.39	6759.36	10.5	6759.39	11.51	6759.52	12.19	6759.7
12.43	6759.73	14.47	6759.77	15.49	6759.78	17.27	6759.81	19.58	6759.93
22.64	6760.11	24.89	6760.32	27.75	6760.57	28.77	6760.64	30.89	6760.8
32.85	6760.9	34.21	6760.9	34.64	6760.91	37.95	6760.91	39.29	6760.89
40.14	6760.89	41.83	6760.87	43.06	6760.87	43.52	6760.89	43.64	6760.85
45.22	6760.91	45.78	6760.94	48.16	6761.04	50.21	6761.03	51.35	6761
53.27	6760.97	54.53	6761	55.38	6761.01	56.23	6761.04	57.92	6761.04
59.06	6761.06	60.67	6761.11	61.31	6761.12	62.46	6761.16	63.48	6761.17
66.77	6761.09	68.06	6761.05	68.93	6761.01	70.62	6760.95	73.16	6760.83
74.71	6760.78	74.85	6760.79	75.77	6760.75	76.55	6760.8	77.4	6760.81
78.79	6760.87	81.63	6760.9	82.48	6760.9	84.77	6760.93	85.5	6760.93
86.71	6760.95	88.62	6760.96	89.91	6760.99	91.19	6761.04	95.05	6761.17
95.13	6761.18	99.21	6761.32	101.48	6761.29	101.95	6761.3	104.05	6761.31
106.36	6761.34	107.38	6761.34	108.73	6761.36	109.57	6761.36	110.47	6761.33
112.11	6761.29	112.48	6761.27	114.33	6761.22	118.04	6761.11	119.47	6761.06
122.27	6761.1	123.12	6761.12	125.21	6761.15	127.18	6761.19	127.8	6761.18
129.05	6761.18	129.9	6761.17	131.04	6761.13	135.82	6760.94	138.01	6760.86
140.03	6760.78	140.9	6760.73	141.32	6760.69	142.09	6760.65	145.17	6760.44
146.83	6760.34	149.03	6760.19	151.91	6760.01	153.32	6759.91	153.61	6759.9
154.99	6759.8	156.99	6759.67	158.42	6759.6	160.6	6759.48	162.07	6759.44
163.17	6759.42	164.45	6759.38	165.74	6759.35	166.31	6759.3	166.59	6759.3
169.69	6759.12	170.88	6759.06	173.08	6759.01	173.93	6758.98	176.8	6758.91
177.31	6758.89	178.23	6758.9	184.1	6759.02	187.1	6759.07	187.26	6759.08
189.87	6759.05	192.11	6759.05	192.43	6759.04	195.68	6759.04	196.11	6759.03
198.59	6759.03	198.63	6759.02	200.11	6759.02	202.11	6758.98	205.11	6758.94
206.34	6758.91	207.94	6758.89	212.16	6758.76	213.1	6758.74	215.07	6758.67
218.27	6758.58	218.95	6758.54	220.12	6758.5	220.88	6758.49	222.41	6758.49
222.82	6758.48	224.76	6758.48	225.12	6758.47	227.12	6758.47	227.58	6758.46
229.13	6758.46	230.13	6758.45	232.52	6758.48	235.42	6758.53	237.36	6758.55
238.95	6758.58	240.13	6758.58	249.14	6758.96	250.14	6758.95	255.78	6759
258.14	6759.01	259.62	6759.03	259.66	6759.08	260.14	6759.09	261.69	6759.09
263.54	6759.11	264.79	6759.11	265.14	6759.12	266.44	6759.12	268.15	6759.14
270.32	6759.15	273.23	6759.23	276.16	6759.29	279.05	6759.32	280.15	6759.34
281.33	6758.8	283.89	6757.64	284.86	6757.19	286.16	6756.61	286.8	6756.31
288.16	6755.7	289.16	6755.24	289.6	6755.25	289.71	6754.99	290.68	6754.99
291.65	6754.95	293.59	6754.91	296.16	6754.84	296.49	6754.84	300.37	6754.75
302.31	6754.81	303.28	6754.85	306.19	6754.94	306.83	6754.97	310.28	6755.08
312.35	6755.02	315.45	6754.9	316.48	6754.87	318.79	6754.78	319.05	6755.67
319.06	6755.94	319.06	6755.95	373.05	6749.4	383.05	6747.22	400.05	6747.21
419.05	6747.36	428.83	6750.03	431.05	6750.64	436.55	6751.04	506.05	6756.05
543.05	6754.38	552.56	6761.95	555.55	6761.92	555.65	6761.91	557.38	6761.89
559.55	6761.9	560.86	6761.92	563.55	6761.94	567.56	6761.94	569.2	6761.88
570.24	6761.85	573.37	6761.73	574.41	6761.7	575.67	6761.7	577.59	6761.71
578.58	6761.67	579.62	6761.61	581.44	6761.53	581.7	6761.51	586.57	6761.28
587.22	6761.24	588.57	6761.19	589.57	6761.14	592.12	6761.04	595.25	6760.91
595.88	6760.86	597.58	6760.7	599.73	6760.57	600.7	6760.5	604.55	6760.26
604.63	6760.25	607.75	6760.06	608.8	6760.01	610.59	6759.94	611.59	6759.89
612.25	6759.87	615.05	6759.74	616.09	6759.7	617.6	6759.57	619.22	6759.63
620.91	6759.68	622.34	6759.73	623.8	6759.79	625.47	6759.84	626.51	6759.88
627.55	6759.95	630.54	6759.92	630.61	6759.91	632.16	6759.9	632.16	6755.23
645.98	6755.25	657.27	6755.27	825.44	6758				

Manning's n Values

num=

5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-362.02	.1	-162.24	.016	-25.76	.05	319.05	.04	506.05	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	319.05	506.05		21.59	21.03	21.59		.3	.5
Ineffective Flow			num=	1					
Sta L	Sta R	Elev	Permanent						
-362.02	-70	6758	T						

BRIDGE

RIVER: Walton Creek
REACH: lower-main split RS: 2528

INPUT

Description:

Distance from Upstream XS = 8

Deck/Roadway Width = 9

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 5

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
277.43	6756.08	6755.08	329.34	6757.36	6756.36	362.34	6757.83	6756.83
419.34	6757.27	6756.27	464.34	6756.04	6755.04			

Upstream Bridge Cross Section Data

Station Elevation Data num= 368

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-362.02	6780.22	-162.24	6780.22	-161.13	6760.02	-159.08	6759.87	-158.14	6759.81
-157.16	6759.73	-156.02	6759.65	-154.62	6759.61	-152.79	6759.57	-150.92	6759.52
-148.88	6759.49	-148.7	6759.48	-146.16	6759.45	-145.29	6759.42	-144.01	6759.35
-141.92	6759.26	-140.71	6759.2	-140.23	6759.22	-138.87	6759.25	-136.3	6759.33
-135.6	6759.32	-133.45	6759.32	-130.5	6759.29	-130.07	6759.22	-129.87	6759.22
-128.37	6759.01	-125.39	6758.61	-123.44	6758.55	-122.45	6758.53	-120.87	6758.48
-118.04	6758.43	-117.02	6758.42	-116.52	6758.44	-114.45	6758.44	-111.44	6758.42
-110.59	6758.39	-110.59	6758.41	-109.74	6758.38	-106.73	6758.23	-104.98	6758.13
-103.82	6758.15	-100.43	6758.17	-97.74	6758.15	-95.79	6758.15	-94.77	6758.14
-92.6	6758.07	-91.31	6758.02	-89.66	6757.94	-88.25	6757.82	-87.46	6757.74
-84.56	6757.49	-82.65	6757.14	-79.45	6756.54	-78.46	6756.93	-76.39	6757.72
-75.89	6757.92	-74.35	6758.51	-74.18	6758.54	-72.03	6759.01	-71.64	6759.11
-70.26	6759.42	-69.24	6759.66	-65.61	6759.84	-64.32	6759.89	-63.43	6759.88
-60.47	6759.81	-59.03	6759.77	-58.47	6759.77	-54.7	6759.71	-53.86	6759.68
-52.75	6759.68	-51.32	6759.65	-49.62	6759.63	-48.9	6759.61	-47.8	6759.61
-46.33	6759.59	-44.74	6759.59	-43.57	6759.58	-39.64	6759.5	-37.59	6759.49
-37.33	6759.5	-36.05	6759.5	-33.48	6759.52	-31.84	6759.5	-30.99	6759.48
-29.62	6759.47	-28.68	6759.45	-26.76	6759.43	-25.76	6759.43	-24.48	6759.41
-23.19	6759.4	-21.91	6759.36	-20.62	6759.33	-19.34	6759.26	-18.05	6759.2
-16.15	6759.13	-14.2	6759.05	-13.21	6759.02	-11.52	6758.92	-10.67	6758.86
-9.06	6758.77	-7.99	6758.67	-7.28	6758.46	-6.97	6758.33	-5.59	6757.9
-2.88	6757.04	-1.86	6757.19	-1.36	6757.08	-1.34	6757.26	.34	6757.01
2.22	6756.74	4.57	6757.77	5.28	6758.09	6.37	6758.54	7.33	6758.95
9.37	6759.23	10.39	6759.36	10.5	6759.39	11.51	6759.52	12.19	6759.7
12.43	6759.73	14.47	6759.77	15.49	6759.78	17.27	6759.81	19.58	6759.93
22.64	6760.11	24.89	6760.32	27.75	6760.57	28.77	6760.64	30.89	6760.8
32.85	6760.9	34.21	6760.9	34.64	6760.91	37.95	6760.91	39.29	6760.89
40.14	6760.89	41.83	6760.87	43.06	6760.87	43.52	6760.89	43.64	6760.85
45.22	6760.91	45.78	6760.94	48.16	6761.04	50.21	6761.03	51.35	6761
53.27	6760.97	54.53	6761	55.38	6761.01	56.23	6761.04	57.92	6761.04
59.06	6761.06	60.67	6761.11	61.31	6761.12	62.46	6761.16	63.48	6761.17
66.77	6761.09	68.06	6761.05	68.93	6761.01	70.62	6760.95	73.16	6760.83
74.71	6760.78	74.85	6760.79	75.77	6760.75	76.55	6760.8	77.4	6760.81
78.79	6760.87	81.63	6760.9	82.48	6760.9	84.77	6760.93	85.5	6760.93
86.71	6760.95	88.62	6760.96	89.91	6760.99	91.19	6761.04	95.05	6761.17
95.13	6761.18	99.21	6761.32	101.48	6761.29	101.95	6761.3	104.05	6761.31
106.36	6761.34	107.38	6761.34	108.73	6761.36	109.57	6761.36	110.47	6761.33
112.11	6761.29	112.48	6761.27	114.33	6761.22	118.04	6761.11	119.47	6761.06
122.27	6761.1	123.12	6761.12	125.21	6761.15	127.18	6761.19	127.8	6761.18
129.05	6761.18	129.9	6761.17	131.04	6761.13	135.82	6760.94	138.01	6760.86
140.03	6760.78	140.9	6760.73	141.32	6760.69	142.09	6760.65	145.17	6760.44
146.83	6760.34	149.03	6760.19	151.91	6760.01	153.32	6759.91	153.61	6759.9
154.99	6759.8	156.99	6759.67	158.42	6759.6	160.6	6759.48	162.07	6759.44
163.17	6759.42	164.45	6759.38	165.74	6759.35	166.31	6759.3	166.59	6759.3
169.69	6759.12	170.88	6759.06	173.08	6759.01	173.93	6758.98	176.8	6758.91
177.31	6758.89	178.23	6758.9	184.1	6759.02	187.1	6759.07	187.26	6759.08
189.87	6759.05	192.11	6759.05	192.43	6759.04	195.68	6759.04	196.11	6759.03
198.59	6759.03	198.63	6759.02	200.11	6759.02	202.11	6758.98	205.11	6758.94
206.34	6758.91	207.94	6758.89	212.16	6758.76	213.1	6758.74	215.07	6758.67
218.27	6758.58	218.95	6758.54	220.12	6758.5	220.88	6758.49	222.41	6758.49
222.82	6758.48	224.76	6758.48	225.12	6758.47	227.12	6758.47	227.58	6758.46
229.13	6758.46	230.13	6758.45	232.52	6758.48	235.42	6758.53	237.36	6758.55
238.95	6758.58	240.13	6758.58	249.14	6758.96	250.14	6758.95	255.78	6759
258.14	6759.01	259.62	6759.03	259.66	6759.08	260.14	6759.09	261.69	6759.09

263.54	6759.11	264.79	6759.11	265.14	6759.12	266.44	6759.12	268.15	6759.14
270.32	6759.15	273.23	6759.23	276.16	6759.29	279.05	6759.32	280.15	6759.34
281.33	6758.8	283.89	6757.64	284.86	6757.19	286.16	6756.61	286.8	6756.31
288.16	6755.7	289.16	6755.24	289.6	6755.25	289.71	6754.99	290.68	6754.99
291.65	6754.95	293.59	6754.91	296.16	6754.84	296.49	6754.84	300.37	6754.75
302.31	6754.81	303.28	6754.85	306.19	6754.94	306.83	6754.97	310.28	6755.08
312.35	6755.02	315.45	6754.9	316.48	6754.87	318.79	6754.78	319.05	6755.67
319.06	6755.94	319.06	6755.95	373.05	6749.4	383.05	6747.22	400.05	6747.21
419.05	6747.36	428.83	6750.03	431.05	6750.64	436.55	6751.04	506.05	6756.05
543.05	6754.38	552.56	6761.95	555.55	6761.92	555.65	6761.91	557.38	6761.89
559.55	6761.9	560.86	6761.92	563.55	6761.94	567.56	6761.94	569.2	6761.88
570.24	6761.85	573.37	6761.73	574.41	6761.7	575.67	6761.7	577.59	6761.71
578.58	6761.67	579.62	6761.61	581.44	6761.53	581.7	6761.51	586.57	6761.28
587.22	6761.24	588.57	6761.19	589.57	6761.14	592.12	6761.04	595.25	6760.91
595.88	6760.86	597.58	6760.7	599.73	6760.57	600.7	6760.5	604.55	6760.26
604.63	6760.25	607.75	6760.06	608.8	6760.01	610.59	6759.94	611.59	6759.89
612.25	6759.87	615.05	6759.74	616.09	6759.7	617.6	6759.57	619.22	6759.63
620.91	6759.68	622.34	6759.73	623.8	6759.79	625.47	6759.84	626.51	6759.88
627.55	6759.95	630.54	6759.92	630.61	6759.91	632.16	6759.9	632.16	6755.23
645.98	6755.25	657.27	6755.27	825.44	6758				

Manning's n Values num= 5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-362.02	.1	-162.24	.016	-25.76	.05	319.05	.04	506.05	.05

Bank Sta: Left Right Coeff Contr. Expan.
319.05 506.05 .3 .5

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
-362.02	-70	6758	T

Downstream Deck/Roadway Coordinates num= 5

Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
232.09	6756.08	6755.08			284	6757.36	6756.36			317	6757.83	6756.83		
374	6757.27	6756.27			419	6756.04	6755.04							

Downstream Bridge Cross Section Data num= 496

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-344	6780.26	-339.96	6760.38	-338.72	6760.49	-337.95	6760.54	-336.53	6760.65
-336.38	6760.67	-334.94	6760.78	-333.94	6760.82	-331.93	6760.93	-329.98	6761.05
-326.17	6761.01	-321.9	6760.97	-320.9	6760.97	-319.67	6760.95	-318.75	6760.95
-312.25	6760.88	-311.32	6760.88	-308.86	6760.85	-308.14	6760.85	-307.05	6760.83
-303.84	6760.8	-302.84	6760.8	-297.4	6760.74	-296.48	6760.74	-293.95	6760.71
-292.26	6760.7	-290.67	6760.68	-289.58	6760.68	-288.12	6760.69	-287.79	6760.7
-286.27	6760.71	-285.21	6760.73	-284.41	6760.73	-283.03	6760.71	-277.57	6760.66
-276.06	6760.64	-275.13	6760.64	-269.73	6760.58	-255.65	6760.58	-252.45	6760.55
-251.01	6760.54	-248.66	6760.51	-247.66	6760.51	-245.65	6760.49	-244.65	6760.51
-242.62	6760.58	-241.53	6760.63	-240.8	6760.65	-239.63	6760.7	-238.94	6760.7
-236.07	6760.65	-234.98	6760.64	-231.7	6760.55	-230.61	6760.51	-229.66	6760.49
-227.34	6760.34	-226.88	6760.3	-225.58	6760.22	-224.58	6760.15	-222.97	6760.08
-219.56	6759.95	-218.6	6759.94	-217.51	6759.94	-215.74	6759.92	-214.82	6759.92
-213.14	6759.9	-209.53	6759.9	-206.59	6759.8	-204.41	6759.72	-203.68	6759.7
-202.22	6759.64	-200.5	6759.59	-199.5	6759.55	-196.26	6759.55	-195.67	6759.56
-191.3	6759.56	-190.69	6759.55	-189.47	6759.55	-188.46	6759.51	-187.91	6759.5
-186.98	6759.46	-185.84	6759.43	-184.45	6759.35	-182.34	6759.28	-181.47	6759.26
-180.48	6759.22	-178.63	6759.18	-178.2	6759.16	-177.43	6759.15	-175.42	6759.1
-174.92	6759.08	-174.42	6759.09	-173.06	6759.04	-172.74	6759.04	-171.2	6758.99
-169.46	6758.95	-165.63	6758.99	-164	6759.01	-163.38	6759.01	-161.92	6759.03
-161.37	6759.03	-159.37	6759.06	-156.36	6758.98	-155.43	6758.96	-153.57	6758.9
-153.35	6758.9	-151.72	6758.85	-149.81	6758.8	-149.33	6758.78	-146.53	6758.83
-145.44	6758.84	-141.07	6758.92	-139.3	6758.96	-138.89	6758.94	-137.29	6758.9
-136.29	6758.86	-135.01	6758.83	-134.28	6758.8	-133.43	6758.78	-132.34	6758.74
-130.15	6758.68	-129.27	6758.65	-126.88	6758.72	-126.26	6758.73	-123.88	6758.8
-122.02	6758.86	-121.42	6758.87	-119.26	6758.94	-117.38	6758.89	-115.96	6758.84
-111.21	6758.71	-110.89	6758.71	-109.41	6758.66	-108.1	6758.63	-106.9	6758.59
-104.19	6758.52	-103.18	6758.48	-101.76	6758.44	-100.17	6758.38	-99.17	6758.35
-93.03	6758.35	-92.33	6758.34	-90.84	6758.34	-89.54	6758.33	-88.13	6758.3
-85.12	6758.21	-84.9	6758.21	-83.05	6758.15	-80.11	6758.09	-78.83	6758.06
-76.09	6757.96	-75.56	6757.95	-74.09	6757.9	-72.28	6757.83	-71.19	6757.8

-70.1	6757.75	-66.06	6757.58	-64.64	6757.51	-63.05	6757.45	-62.05	6757.4
-60.78	6757.36	-60.27	6757.33	-59.04	6757.32	-58.08	6757.53	-53.35	6758.75
-52.42	6758.98	-50.01	6759.61	-49	6759.86	-42.99	6759.86	-42.8	6759.85
-38.97	6759.85	-37.58	6759.82	-34.79	6759.73	-33.87	6759.71	-32.76	6759.67
-31.88	6759.65	-30.15	6759.59	-28.94	6759.56	-26.93	6759.57	-25.51	6759.59
-24.23	6759.6	-23.14	6759.6	-22.92	6759.61	-21.8	6759.61	-20.4	6759.63
-19.02	6759.64	-16.9	6759.56	-15.5	6759.52	-14.41	6759.48	-11.13	6759.39
-9.74	6759.34	-8.95	6759.32	-8.81	6759.3	-5.86	6758.6	1.16	6756.78
5.11	6757.52	5.25	6757.54	6.04	6757.77	6.34	6757.84	8.18	6758.35
10.71	6759.03	11.19	6759.17	11.6	6759.21	15.08	6759.62	15.32	6759.63
16.24	6759.75	17.17	6759.77	18.35	6759.82	19.44	6759.85	20.88	6759.9
21.23	6759.92	22.23	6759.93	24.6	6759.98	26.24	6760	26.45	6760.02
27.09	6760.02	29.27	6760.12	31.26	6760.22	32.55	6760.22	32.95	6760.21
35.82	6760.21	36.27	6760.2	38.28	6760.2	41.39	6760.17	43.3	6760.27
45.94	6760.39	46.87	6760.42	49.32	6760.52	50.58	6760.56	51.11	6760.59
52.2	6760.6	57.66	6760.6	58	6760.61	61.71	6760.61	62.36	6760.59
63.36	6760.58	64.5	6760.55	65.43	6760.54	67.28	6760.5	69.67	6760.46
70.39	6760.44	71.39	6760.43	72.95	6760.49	73.78	6760.51	74.4	6760.54
80.27	6760.73	80.59	6760.75	83.43	6760.83	83.87	6760.85	85.84	6760.9
87.7	6760.96	88.62	6760.98	91.41	6761.07	92.6	6761.07	94.19	6761.03
96.97	6760.95	98.06	6760.93	99.76	6760.88	101.34	6760.84	103.17	6760.77
103.47	6760.75	104.4	6760.76	105.71	6760.76	106.26	6760.77	107.89	6760.77
108.11	6760.78	109.97	6760.78	110.08	6760.79	113.53	6760.79	117.39	6760.75
118.32	6760.75	119.55	6760.73	121.1	6760.72	122.96	6760.68	124.81	6760.62
125.74	6760.6	126.46	6760.57	127.55	6760.54	131.59	6760.4	133.59	6760.53
134.6	6760.59	136.28	6760.71	140.65	6760.94	141.62	6761	143.63	6761
143.93	6761.01	148.64	6761.01	149.87	6760.99	151.57	6760.98	154.51	6760.76
155.44	6760.68	155.94	6760.65	157.67	6760.51	158.22	6760.45	158.68	6760.42
161.69	6760.11	164.67	6759.97	166.7	6759.81	167.51	6759.76	170.15	6759.76
174.36	6759.46	174.96	6759.47	175.15	6759.45	178.16	6759.42	178.28	6759.41
180.16	6759.39	184.16	6759.04	187.23	6758.83	189.05	6758.72	190.16	6758.64
191.32	6758.6	192.34	6758.55	194.39	6758.47	194.92	6758.46	196.43	6758.4
198.16	6758.35	198.48	6758.33	200.16	6758.28	201.54	6758.29	202.75	6758.29
203.73	6758.3	205.69	6758.29	209.16	6758.26	210.75	6758.26	212.16	6758.27
214.5	6758.3	216.88	6758.31	218.16	6758.33	219.4	6758.33	223.31	6758.37
224.04	6758.34	226.25	6758.29	228.13	6758.23	229.19	6758.21	230	6758.18
232.23	6758.15	233.08	6758.13	235.02	6758.15	236.37	6758.15	237.92	6758.17
239.17	6758.17	240.17	6758.18	242.75	6758.1	244.18	6758.1	245.7	6758.09
247.59	6758.07	248.81	6758.07	250.18	6758.06	250.88	6758.02	252.18	6757.97
252.42	6757.95	252.96	6757.98	253.18	6757.97	254.36	6757.98	255.32	6758
257.26	6758.02	258.14	6758.04	259.19	6758.05	260.19	6758.07	261.13	6757.91
266.43	6757.03	266.92	6755.75	267.58	6755.87	312.69	6750.93	313.92	6750.8
314.55	6750.71	334.87	6747.75	335.92	6747.6	336.79	6747.59	348.92	6747.41
368.59	6747.67	369.92	6747.69	370.62	6747.93	379.27	6750.88	380.92	6751.44
381.33	6751.51	407.92	6756.2	452.97	6758.16	453.92	6758.2	454.65	6758.39
457.63	6759.14	459.45	6759.01	460.87	6758.92	461.37	6758.92	462.33	6758.89
462.96	6758.89	465.21	6758.85	465.63	6758.85	467.13	6758.82	467.64	6758.82
470.64	6758.61	470.98	6758.62	471.32	6758.56	472.64	6758.59	475.78	6758.64
477.7	6758.68	478.64	6758.64	480.73	6758.58	482.82	6758.5	483.86	6758.47
485.95	6758.39	487	6758.36	487.65	6758.33	488.26	6758.49	491.66	6759.41
492.1	6759.44	492.23	6759.56	493.66	6759.67	497.66	6759.95	498.82	6760.08
499.54	6760.15	500.59	6760.27	502.68	6760.49	505.54	6761.23	507.67	6761.77
508.67	6761.81	512.09	6761.91	513.13	6761.95	517.06	6762.03	517.68	6762.05
518.68	6762.03	520.45	6762.02	521.5	6762	522.69	6761.99	522.82	6762
523.59	6761.98	524.74	6762.01	527.62	6762.1	529.54	6762.08	529.69	6762.07
530.9	6762.06	531.95	6762.04	533.7	6762.02	535.3	6761.99	537.7	6761.96
539.14	6761.95	541.7	6761.95	542.02	6761.94	544.9	6761.94	546.71	6761.96
546.82	6761.97	554.5	6762.05	557.72	6762.05	559.72	6761.93	560.72	6761.88
563.14	6761.74	565.4	6761.62	566.73	6761.58	566.93	6761.58	567.73	6761.56
568.53	6761.5	570.83	6761.36	573.37	6761.2	574.79	6761.1	575.83	6761.04
576.6	6761.12	576.88	6761.13	577.92	6761.21	578.74	6761.23	579.74	6761.27
583.34	6761.38	584.18	6761.4	585.22	6761.44	585.74	6761.45	586.22	6761.33
586.26	6761.47	587.74	6761.11	588.35	6760.93	591.03	6760.16	592.75	6759.66
593.75	6759.38	594.88	6759.05	596.8	6758.5	597.74	6758.31	599.69	6758.57
599.82	6758.58	603.99	6759.14	604.5	6759.2	606.42	6759.46	607.76	6759.63
609.21	6759.64	610.25	6759.66	610.76	6759.66	611.76	6759.68	613.16	6759.69
614.12	6759.71	614.77	6759.71	616.51	6759.74	617.55	6759.75	618.93	6759.71
620.68	6759.64	622.88	6759.57	623.74	6759.53	625.66	6759.46	626.83	6759.46
805.6	6758								

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-344	.1	-229.66	.05	-119.26	.016	-8.95	.05	266.92	.04
453.92	.05								

Bank Sta: Left Right Coeff Contr. Expan.
266.92 453.92 .3 .5

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 3

Pier Data

Pier Station	Upstream=	326.43	Downstream=	281.09
Upstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	
Downstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	

Pier Data

Pier Station	Upstream=	326.43	Downstream=	368.09
Upstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	
Downstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	

Pier Data

Pier Station	Upstream=	413.43	Downstream=	
Upstream	num=	2		
Width	Elev	Width	Elev	
1.8	6700	1.8	6800	
Downstream	num=	0		

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy
Selected Low Flow Methods = Energy

High Flow Method
Energy Only

Additional Bridge Parameters

Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 2517

INPUT

Description:

Station Elevation Data	num=	496							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-344	6780.26	-339.96	6760.38	-338.72	6760.49	-337.95	6760.54	-336.53	6760.65
-336.38	6760.67	-334.94	6760.78	-333.94	6760.82	-331.93	6760.93	-329.98	6761.05

-326.17	6761.01	-321.9	6760.97	-320.9	6760.97	-319.67	6760.95	-318.75	6760.95
-312.25	6760.88	-311.32	6760.88	-308.86	6760.85	-308.14	6760.85	-307.05	6760.83
-303.84	6760.8	-302.84	6760.8	-297.4	6760.74	-296.48	6760.74	-293.95	6760.71
-292.26	6760.7	-290.67	6760.68	-289.58	6760.68	-288.12	6760.69	-287.79	6760.7
-286.27	6760.71	-285.21	6760.73	-284.41	6760.73	-283.03	6760.71	-277.57	6760.66
-276.06	6760.64	-275.13	6760.64	-269.73	6760.58	-255.65	6760.58	-252.45	6760.55
-251.01	6760.54	-248.66	6760.51	-247.66	6760.51	-245.65	6760.49	-244.65	6760.51
-242.62	6760.58	-241.53	6760.63	-240.8	6760.65	-239.63	6760.7	-238.94	6760.7
-236.07	6760.65	-234.98	6760.64	-231.7	6760.55	-230.61	6760.51	-229.66	6760.49
-227.34	6760.34	-226.88	6760.3	-225.58	6760.22	-224.58	6760.15	-222.97	6760.08
-219.56	6759.95	-218.6	6759.94	-217.51	6759.94	-215.74	6759.92	-214.82	6759.92
-213.14	6759.9	-209.53	6759.9	-206.59	6759.8	-204.41	6759.72	-203.68	6759.7
-202.22	6759.64	-200.5	6759.59	-199.5	6759.55	-196.26	6759.55	-195.67	6759.56
-191.3	6759.56	-190.69	6759.55	-189.47	6759.55	-188.46	6759.51	-187.91	6759.5
-186.98	6759.46	-185.84	6759.43	-184.45	6759.35	-182.34	6759.28	-181.47	6759.26
-180.48	6759.22	-178.63	6759.18	-178.2	6759.16	-177.43	6759.15	-175.42	6759.1
-174.92	6759.08	-174.42	6759.09	-173.06	6759.04	-172.74	6759.04	-171.2	6758.99
-169.46	6758.95	-165.63	6758.99	-164	6759.01	-163.38	6759.01	-161.92	6759.03
-161.37	6759.03	-159.37	6759.06	-156.36	6758.98	-155.43	6758.96	-153.57	6758.9
-153.35	6758.9	-151.72	6758.85	-149.81	6758.8	-149.33	6758.78	-146.53	6758.83
-145.44	6758.84	-141.07	6758.92	-139.3	6758.96	-138.89	6758.94	-137.29	6758.9
-136.29	6758.86	-135.01	6758.83	-134.28	6758.8	-133.43	6758.78	-132.34	6758.74
-130.15	6758.68	-129.27	6758.65	-126.88	6758.72	-126.26	6758.73	-123.88	6758.8
-122.02	6758.86	-121.42	6758.87	-119.26	6758.94	-117.38	6758.89	-115.96	6758.84
-111.21	6758.71	-110.89	6758.71	-109.41	6758.66	-108.1	6758.63	-106.9	6758.59
-104.19	6758.52	-103.18	6758.48	-101.76	6758.44	-100.17	6758.38	-99.17	6758.35
-93.03	6758.35	-92.33	6758.34	-90.84	6758.34	-89.54	6758.33	-88.13	6758.3
-85.12	6758.21	-84.9	6758.21	-83.05	6758.15	-80.11	6758.09	-78.83	6758.06
-76.09	6757.96	-75.56	6757.95	-74.09	6757.9	-72.28	6757.83	-71.19	6757.8
-70.1	6757.75	-66.06	6757.58	-64.64	6757.51	-63.05	6757.45	-62.05	6757.4
-60.78	6757.36	-60.27	6757.33	-59.04	6757.32	-58.08	6757.53	-53.35	6758.75
-52.42	6758.98	-50.01	6759.61	-49	6759.86	-42.99	6759.86	-42.8	6759.85
-38.97	6759.85	-37.58	6759.82	-34.79	6759.73	-33.87	6759.71	-32.76	6759.67
-31.88	6759.65	-30.15	6759.59	-28.94	6759.56	-26.93	6759.57	-25.51	6759.59
-24.23	6759.6	-23.14	6759.6	-22.92	6759.61	-21.8	6759.61	-20.4	6759.63
-19.02	6759.64	-16.9	6759.56	-15.5	6759.52	-14.41	6759.48	-11.13	6759.39
-9.74	6759.34	-8.95	6759.32	-8.81	6759.3	-5.86	6758.6	1.16	6756.78
5.11	6757.52	5.25	6757.54	6.04	6757.77	6.34	6757.84	8.18	6758.35
10.71	6759.03	11.19	6759.17	11.6	6759.21	15.08	6759.62	15.32	6759.63
16.24	6759.75	17.17	6759.77	18.35	6759.82	19.44	6759.85	20.88	6759.9
21.23	6759.92	22.23	6759.93	24.6	6759.98	26.24	6760	26.45	6760.02
27.09	6760.02	29.27	6760.12	31.26	6760.22	32.55	6760.22	32.95	6760.21
35.82	6760.21	36.27	6760.2	38.28	6760.2	41.39	6760.17	43.3	6760.27
45.94	6760.39	46.87	6760.42	49.32	6760.52	50.58	6760.56	51.11	6760.59
52.2	6760.6	57.66	6760.6	58	6760.61	61.71	6760.61	62.36	6760.59
63.36	6760.58	64.5	6760.55	65.43	6760.54	67.28	6760.5	69.67	6760.46
70.39	6760.44	71.39	6760.43	72.95	6760.49	73.78	6760.51	74.4	6760.54
80.27	6760.73	80.59	6760.75	83.43	6760.83	83.87	6760.85	85.84	6760.9
87.7	6760.96	88.62	6760.98	91.41	6761.07	92.6	6761.07	94.19	6761.03
96.97	6760.95	98.06	6760.93	99.76	6760.88	101.34	6760.84	103.17	6760.77
103.47	6760.75	104.4	6760.76	105.71	6760.76	106.26	6760.77	107.89	6760.77
108.11	6760.78	109.97	6760.78	110.08	6760.79	113.53	6760.79	117.39	6760.75
118.32	6760.75	119.55	6760.73	121.1	6760.72	122.96	6760.68	124.81	6760.62
125.74	6760.6	126.46	6760.57	127.55	6760.54	131.59	6760.4	133.59	6760.53
134.6	6760.59	136.28	6760.71	140.65	6760.94	141.62	6761	143.63	6761
143.93	6761.01	148.64	6761.01	149.87	6760.99	151.57	6760.98	154.51	6760.76
155.44	6760.68	155.94	6760.65	157.67	6760.51	158.22	6760.45	158.68	6760.42
161.69	6760.11	164.67	6759.97	166.7	6759.81	167.51	6759.76	170.15	6759.76
174.36	6759.46	174.96	6759.47	175.15	6759.45	178.16	6759.42	178.28	6759.41
180.16	6759.39	184.16	6759.04	187.23	6758.83	189.05	6758.72	190.16	6758.64
191.32	6758.6	192.34	6758.55	194.39	6758.47	194.92	6758.46	196.43	6758.4
198.16	6758.35	198.48	6758.33	200.16	6758.28	201.54	6758.29	202.75	6758.29
203.73	6758.3	205.69	6758.29	209.16	6758.26	210.75	6758.26	212.16	6758.27
214.5	6758.3	216.88	6758.31	218.16	6758.33	219.4	6758.33	223.31	6758.37
224.04	6758.34	226.25	6758.29	228.13	6758.23	229.19	6758.21	230	6758.18
232.23	6758.15	233.08	6758.13	235.02	6758.15	236.37	6758.15	237.92	6758.17
239.17	6758.17	240.17	6758.18	242.75	6758.1	244.18	6758.1	245.7	6758.09
247.59	6758.07	248.81	6758.06	250.18	6758.06	250.88	6758.02	252.18	6757.97
252.42	6757.95	252.96	6757.98	253.18	6757.97	254.36	6757.98	255.32	6758
257.26	6758.02	258.14	6758.04	259.19	6758.05	260.19	6758.07	261.13	6757.91
266.43	6757.03	266.92	6755.75	267.58	6755.87	312.69	6750.93	313.92	6750.8

314.55	6750.71	334.87	6747.75	335.92	6747.6	336.79	6747.59	348.92	6747.41
368.59	6747.67	369.92	6747.69	370.62	6747.93	379.27	6750.88	380.92	6751.44
381.33	6751.51	407.92	6756.2	452.97	6758.16	453.92	6758.2	454.65	6758.39
457.63	6759.14	459.45	6759.01	460.87	6758.92	461.37	6758.92	462.33	6758.89
462.96	6758.89	465.21	6758.85	465.63	6758.85	467.13	6758.82	467.64	6758.82
470.64	6758.61	470.98	6758.62	471.32	6758.56	472.64	6758.59	475.78	6758.64
477.7	6758.68	478.64	6758.64	480.73	6758.58	482.82	6758.5	483.86	6758.47
485.95	6758.39	487	6758.36	487.65	6758.33	488.26	6758.49	491.66	6759.41
492.1	6759.44	492.23	6759.56	493.66	6759.67	497.66	6759.95	498.82	6760.08
499.54	6760.15	500.59	6760.27	502.68	6760.49	505.54	6761.23	507.67	6761.77
508.67	6761.81	512.09	6761.91	513.13	6761.95	517.06	6762.03	517.68	6762.05
518.68	6762.03	520.45	6762.02	521.5	6762	522.69	6761.99	522.82	6762
523.59	6761.98	524.74	6762.01	527.62	6762.1	529.54	6762.08	529.69	6762.07
530.9	6762.06	531.95	6762.04	533.7	6762.02	535.3	6761.99	537.7	6761.96
539.14	6761.95	541.7	6761.95	542.02	6761.94	544.9	6761.94	546.71	6761.96
546.82	6761.97	554.5	6762.05	557.72	6762.05	559.72	6761.93	560.72	6761.88
563.14	6761.74	565.4	6761.62	566.73	6761.58	566.93	6761.58	567.73	6761.56
568.53	6761.5	570.83	6761.36	573.37	6761.2	574.79	6761.1	575.83	6761.04
576.6	6761.12	576.88	6761.13	577.92	6761.21	578.74	6761.23	579.74	6761.27
583.34	6761.38	584.18	6761.4	585.22	6761.44	585.74	6761.45	586.22	6761.33
586.26	6761.47	587.74	6761.11	588.35	6760.93	591.03	6760.16	592.75	6759.66
593.75	6759.38	594.88	6759.05	596.8	6758.5	597.74	6758.31	599.69	6758.57
599.82	6758.58	603.99	6759.14	604.5	6759.2	606.42	6759.46	607.76	6759.63
609.21	6759.64	610.25	6759.66	610.76	6759.66	611.76	6759.68	613.16	6759.69
614.12	6759.71	614.77	6759.71	616.51	6759.74	617.55	6759.75	618.93	6759.71
620.68	6759.64	622.88	6759.57	623.74	6759.53	625.66	6759.46	626.83	6759.46
805.6	6758								

Manning's n Values		num=	6						
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-344	.1	-229.66	.05	-119.26	.016	-8.95	.05	266.92	.04
453.92	.05								

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
266.92	453.92	219.85	219.86	219.85		.3	.5

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 2294

INPUT

Description:

Station	Elevation	Data	num=	490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-209.02	6780.38	-208.09	6760.53	-206.25	6760.49	-205.09	6760.47	-204.09	6760.44
-201.26	6760.38	-200.26	6760.37	-199.08	6760.37	-198.26	6760.36	-195.26	6760.39
-195.08	6760.4	-190.27	6760.45	-189.07	6760.45	-188.27	6760.46	-187.27	6760.45
-186.07	6760.45	-185.27	6760.44	-184.07	6760.44	-183.28	6760.43	-182.06	6760.43
-181.28	6760.42	-179.28	6760.44	-178.06	6760.44	-177.28	6760.46	-176.06	6760.47
-175.28	6760.49	-173.28	6760.51	-173.17	6760.52	-171.29	6760.54	-171.17	6760.55
-170.29	6760.54	-168.17	6760.54	-168.05	6760.53	-164.29	6760.46	-163.05	6760.43
-162.17	6760.42	-160.3	6760.37	-160.04	6760.37	-158.3	6760.32	-157.04	6760.31
-155.3	6760.28	-153.3	6760.26	-153.17	6760.25	-151.17	6760.23	-149.17	6760.09
-149.03	6760.09	-148.03	6760.02	-142.31	6759.68	-141.17	6759.62	-140.17	6759.62
-140.02	6759.63	-139.02	6759.63	-138.32	6759.64	-135.32	6759.61	-134.32	6759.61
-134.17	6759.6	-133.17	6759.6	-133.02	6759.59	-132.02	6759.59	-128.33	6759.55
-126.17	6759.55	-126.01	6759.56	-123.01	6759.56	-122.33	6759.57	-121.01	6759.57
-120.34	6759.55	-119.17	6759.53	-118	6759.52	-117.17	6759.5	-116	6759.49
-113.17	6759.44	-111	6759.42	-109	6759.44	-108.35	6759.46	-105.99	6759.48
-102.99	6759.51	-101.99	6759.53	-100.99	6759.53	-100.35	6759.52	-98.99	6759.48
-98.17	6759.47	-97.17	6759.44	-95.36	6759.41	-94.36	6759.38	-93.98	6759.38
-92.98	6759.35	-91.98	6759.33	-90.98	6759.32	-88.98	6759.34	-86.17	6759.39
-85.17	6759.4	-81.17	6759.47	-80.97	6759.45	-79.97	6759.4	-78.97	6759.33
-78.37	6759.3	-77.17	6759.17	-75.38	6758.99	-75.17	6758.96	-73.38	6758.78
-73.17	6758.75	-71.38	6758.57	-71.17	6758.54	-69.96	6758.58	-66.39	6758.72
-65.39	6758.77	-65.17	6758.77	-63.95	6758.83	-62.39	6758.89	-61.17	6758.95
-58.39	6758.84	-50.94	6758.84	-48.4	6758.87	-47.4	6758.87	-47.17	6758.88
-44.93	6758.88	-44.41	6758.89	-41.93	6758.89	-41.17	6758.9	-38.93	6758.86
-38.41	6758.86	-36.93	6758.83	-34.42	6758.8	-34.17	6758.79	-31.17	6758.79

-29.17	6758.85	-27.92	6758.88	-25.42	6758.91	-23.91	6758.94	-22.17	6758.96
-21.17	6758.98	-20.17	6758.96	-18.43	6758.94	-17.17	6758.91	-15.91	6758.87
-15.17	6758.86	-13.44	6758.81	-13.17	6758.81	-11.44	6758.76	-10.9	6758.76
-8.44	6758.8	-7.44	6758.83	-6.44	6758.87	-6.17	6758.87	-4.9	6758.92
-4.44	6758.93	-1.45	6759.04	-.89	6759.05	1.55	6759.05	4.83	6759.15
5.11	6759.15	7.83	6759.24	9.12	6759.27	16.6	6759.27	17.23	6759.26
20.78	6759.26	22.22	6759.32	23.67	6759.37	24.3	6759.4	25.72	6759.45
26.3	6759.48	29.07	6759.58	30.89	6759.66	31.37	6759.67	33.23	6759.75
34.2	6759.78	35.62	6759.84	36.32	6759.85	37.03	6759.82	37.74	6759.82
38.11	6759.8	39.15	6759.79	39.56	6759.77	40.57	6759.76	41	6759.74
41.98	6759.73	42.93	6759.7	43.4	6759.71	44.1	6759.68	44.81	6759.68
45.52	6759.65	46.23	6759.65	46.93	6759.62	47.64	6759.62	48.35	6759.59
49.06	6759.59	49.85	6759.56	51.88	6759.5	52.56	6759.47	53.3	6759.46
54.26	6759.42	56.13	6759.37	56.78	6759.34	57.54	6759.33	59.78	6759.25
60.37	6759.24	61.08	6759.21	61.79	6759.2	63.71	6759.13	64.62	6759.12
65.32	6759.08	66.03	6759.07	68.45	6758.98	70.27	6758.93	70.64	6758.91
73.1	6758.84	73.41	6758.82	74.22	6758.8	75.22	6758.76	77.57	6758.69
78.56	6758.51	78.96	6758.42	81.73	6757.76	82.89	6757.49	83.11	6757.43
84.34	6757.15	85.78	6756.8	86.54	6756.63	87.27	6756.45	88.66	6756.13
90.78	6755.62	91.43	6755.47	93	6755.24	95.03	6755	95.73	6754.91
97.15	6754.75	97.34	6754.72	99.74	6754.44	101.67	6754.2	102.81	6754.07
105.28	6753.77	106.34	6753.77	106.67	6753.76	107.76	6753.76	108.89	6753.78
110.59	6753.79	110.83	6753.8	111.24	6754.01	111.84	6754.01	112.05	6753.98
113.23	6753.76	113.49	6753.72	115.73	6753.31	118.31	6752.86	119.72	6752.59
121.93	6752.19	122.55	6752.07	125.45	6751.54	126.07	6751.42	127.51	6751.39
129.62	6751.33	130.38	6751.32	131.68	6751.28	133.26	6751.28	133.87	6751.27
135.28	6751.27	135.85	6751.26	137.57	6751.26	137.94	6751.25	139.53	6751.25
140.44	6751.24	143.32	6751.12	143.77	6751.11	145.6	6751.03	148.38	6751.31
149.78	6751.44	150.5	6751.52	154.81	6751.94	155.08	6752	157.21	6752.42
157.69	6752.51	159.33	6752.84	160.03	6752.95	161.45	6753.14	163.57	6753.44
164.28	6753.53	167.75	6754.02	167.88	6754.03	169.18	6754.22	169.27	6754.22
173.45	6754.52	177.01	6754.57	177.81	6754.57	180.54	6754.61	181.25	6754.61
183.19	6754.64	187.37	6754.64	189.74	6754.84	190.44	6754.89	191.55	6754.99
192.94	6755.1	193.98	6755.19	194.33	6755.21	195.72	6755.33	197.12	6755.44
197.52	6755.48	199.64	6755.63	200.8	6755.7	201.29	6755.74	204.08	6755.65
206	6755.58	206.55	6755.57	209.42	6755.47	209.65	6755.47	212.3	6755.38
213.74	6755.31	215.17	6755.23	217.32	6755.25	218.73	6755.25	223.57	6755.29
225.1	6755.29	225.23	6755.3	226.67	6755.3	227.22	6755.33	229.14	6755.4
230.75	6755.4	230.98	6755.39	232.87	6755.39	233.32	6755.38	235.29	6755.38
235.7	6755.37	237.49	6755.37	237.83	6755.36	239.95	6755.36	240.28	6755.35
241.67	6755.35	242.48	6755.32	243.06	6755.28	244.46	6755.28	244.9	6755.27
246.31	6755.27	246.79	6755.26	248.63	6755.26	249.14	6755.25	249.85	6755.44
251.42	6755.84	252.81	6756.21	253.38	6756.35	254.2	6756.57	255.41	6756.88
256.21	6757.07	256.85	6757.35	257.63	6757.71	258.29	6758	260.46	6758.98
261.31	6759.37	263.28	6760.26	264.7	6760.28	265.41	6760.28	268.13	6760.32
269.78	6760.33	271.06	6760.39	271.77	6760.39	272.48	6760.41	273.19	6760.41
273.89	6760.43	274.09	6760.42	276.48	6760.45	276.72	6760.47	277.43	6760.46
278.14	6760.49	278.41	6760.47	282.05	6760.52	282.38	6760.54	283.09	6760.53
283.79	6760.56	284.15	6760.54	285.21	6760.54	285.59	6760.53	286.62	6760.53
287.03	6760.52	288.04	6760.52	288.47	6760.51	289.45	6760.51	298.76	6760.44
299.35	6760.47	300.15	6760.49	300.77	6760.52	301.4	6760.53	302.18	6760.57
302.84	6760.58	303.59	6760.62	304.27	6760.63	305.01	6760.67	306.02	6760.69
306.42	6760.72	307.15	6760.73	307.84	6760.77	308.59	6760.78	309.25	6760.82
310.02	6760.83	310.67	6760.87	311.46	6760.88	312.68	6760.93	313.5	6760.89
314.07	6760.9	314.91	6760.87	315.77	6760.87	316.32	6760.84	316.86	6760.85
317.74	6760.82	318.45	6760.82	319.15	6760.79	319.64	6760.8	320.57	6760.77
321.27	6760.77	321.98	6760.74	322.96	6760.74	323.4	6760.72	324.39	6760.71
324.81	6760.69	325.52	6760.69	326.22	6760.66	326.61	6760.67	327.64	6760.67
331.58	6760.56	331.88	6760.56	333.02	6760.52	334.45	6760.49	334.96	6760.47
336.83	6760.43	337.33	6760.41	338.76	6760.38	339.66	6760.35	341.08	6760.32
344.51	6760.2	344.71	6760.2	347.49	6760.1	349.56	6760.04	350.26	6760.01
351.67	6759.97	351.7	6759.96	353.06	6759.92	354.45	6759.87	356.01	6759.76
357.45	6759.69	358.05	6759.67	359.46	6759.6	360.32	6759.57	361.76	6759.5
362.81	6759.46	364.63	6759.38	365.12	6759.35	368.38	6759.21	370.07	6759.17
373.26	6759.13	374.31	6759.11	375.02	6759.11	377.14	6759.08	378.12	6759.06
379.26	6759.05	381.88	6759.01	384.21	6759.01	385.09	6759.02	385.63	6759.01
388.46	6759.01	389.06	6759	391.29	6759	391.94	6758.99	394.12	6758.99
394.81	6758.98	396.25	6758.98	397.62	6759	399.12	6759.01	400.4	6759.05
401.79	6759.08	402.6	6759.11	404.02	6759.14	404.87	6759.17	405.97	6759.19
408.26	6759.26	409.67	6759.29	410.15	6759.31	412.5	6759.32	412.93	6759.33
413.92	6759.33	414.33	6759.32	415.33	6759.32	417.81	6759.29	418.87	6759.29

420.68	6759.25	421.7	6759.24	424.07	6759.19	426.65	6759.01	428.06	6758.93
429.64	6758.91	431.03	6758.88	433.62	6758.84	435.05	6758.81	436.05	6758.81

Manning's n Values num= 5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-209.02	.1	-151.17	.016	77.57	.05	99.74	.04	173.45	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	99.74	173.45		191.29	191.29	191.29		.1	.3

CROSS SECTION

RIVER: Walton Creek
REACH: lower-main split RS: 2103

INPUT

Description:

Station Elevation Data		num= 490							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-214.25	6759.39	-213.63	6759.39	-212.41	6759.36	-211.53	6759.49	-211.39	6759.49
-210.49	6759.45	-210.01	6759.41	-209.86	6759.34	-209.21	6759.27	-208.5	6759.12
-208.34	6759.1	-207.62	6759.07	-207.34	6759.05	-206.3	6758.99	-206.02	6758.96
-205.3	6758.92	-203.77	6758.82	-203.63	6758.8	-202.83	6758.75	-201.78	6758.75
-200.73	6758.79	-199.63	6758.82	-198.43	6758.87	-197.68	6758.89	-196.44	6758.94
-195.07	6758.99	-193.72	6759.03	-193.11	6759.06	-191.71	6759.1	-191.59	6759.11
-190.58	6759.15	-190.05	6759.04	-189.53	6758.94	-188.36	6758.77	-187.44	6758.65
-187.02	6758.63	-186.86	6758.64	-186.39	6758.63	-185.5	6758.63	-185.34	6758.64
-184.46	6758.64	-184.3	6758.65	-183.67	6758.65	-183.25	6758.66	-182.07	6758.66
-181.15	6758.68	-180.47	6758.71	-180.11	6758.72	-179.67	6758.67	-179.06	6758.61
-178.87	6758.62	-178.28	6758.56	-178.08	6758.55	-176.96	6758.61	-176.48	6758.68
-176.36	6758.68	-175.92	6758.73	-175.68	6758.77	-174.84	6758.88	-174.08	6758.91
-173.32	6758.96	-173.29	6758.97	-172.77	6759	-171.8	6759.03	-170.89	6759.08
-170.27	6759.09	-169.63	6759.12	-168.75	6759.1	-168.5	6759.1	-167.7	6759.08
-166.9	6759.05	-165.3	6759.01	-164.86	6758.99	-164.39	6758.98	-163.7	6758.86
-163.35	6758.79	-162.3	6758.77	-162.11	6758.8	-161.14	6758.88	-160.2	6759
-159.71	6759.07	-159.16	6759.14	-158.91	6759.14	-158.14	6759.16	-158.09	6759.17
-157.32	6759.19	-157.06	6759.19	-156.57	6759.21	-156.52	6759.19	-156.01	6759.21
-155.05	6759.22	-153.52	6759.22	-153.33	6759.21	-152.87	6759.21	-152	6759.19
-151.73	6759.19	-150.93	6759.17	-150.48	6759.17	-150.13	6759.16	-149.73	6759.16
-148.96	6759.14	-147.43	6759.14	-146.94	6759.15	-145.34	6759.15	-144.71	6759.16
-143.44	6759.16	-142.87	6759.18	-141.36	6759.24	-140.55	6759.26	-139.82	6759.29
-138	6759.35	-137.36	6759.34	-134.16	6759.34	-133.73	6759.33	-133.36	6759.34
-132.97	6759.34	-132.57	6759.33	-131.77	6759.33	-131.28	6759.32	-127.64	6759.32
-126.18	6759.17	-126.12	6759.17	-125.38	6759.09	-124.57	6759.13	-123.54	6759.22
-123.07	6759.27	-122.99	6759.4	-122.49	6759.42	-121.39	6759.35	-120.85	6759.35
-120.85	6756.82	-119.85	6756.75	-119.85	6759.09	-119.35	6759.09	-118.5	6759.13
-118.19	6759.15	-117.86	6759.12	-116.98	6759.07	-116.6	6759.14	-116.21	6759.09
-115.8	6759.09	-115.46	6759.1	-113.45	6759.1	-113.45	6756.22	-113.09	6756.2
-112.45	6756.14	-112.45	6759.05	-111.81	6759.05	-111.14	6759.03	-110.89	6759.03
-109.92	6759	-109.41	6758.99	-109.37	6758.98	-107.02	6758.92	-106.78	6758.91
-105.73	6758.89	-103.82	6758.83	-101.75	6758.78	-101.07	6758.76	-100.63	6758.74
-100.23	6758.74	-99.83	6758.73	-99.03	6758.73	-98.4	6758.71	-97.35	6758.69
-96.64	6758.69	-96.3	6758.68	-95.84	6758.68	-95.66	6758.67	-95.04	6758.67
-93.44	6758.65	-93.16	6758.64	-92.62	6758.64	-90.25	6758.61	-90.02	6758.61
-88.97	6758.59	-88.05	6758.58	-87.64	6758.58	-87.06	6758.57	-86.87	6758.59
-86.53	6758.77	-86.26	6758.72	-85.83	6758.99	-85.46	6759.18	-85	6759.19
-84.78	6759.29	-83.06	6759.16	-82.68	6759.14	-81.96	6759.09	-80.67	6758.99
-80.43	6758.96	-79.07	6758.81	-78.91	6758.8	-77.39	6758.63	-76.4	6758.53
-75.35	6758.41	-75.08	6758.37	-73.48	6758.11	-72.82	6758	-72.69	6758
-72.21	6757.92	-70.86	6757.74	-69.07	6757.49	-67.1	6757.23	-65.92	6757.07
-64.88	6756.92	-64.14	6756.75	-63.69	6756.63	-61.73	6756.16	-61.51	6756.1
-60.79	6755.93	-59.91	6755.71	-59.64	6755.65	-58.31	6755.32	-57.43	6755.11
-56.72	6754.91	-56.49	6754.86	-55.45	6754.59	-54.4	6754.31	-53.52	6754.38
-52.72	6754.43	-51.5	6754.52	-50.21	6754.62	-49.98	6754.63	-49.53	6754.67
-49.16	6754.69	-47.07	6754.84	-46.34	6754.9	-44.97	6754.99	-44	6755.07
-43.92	6755.07	-42.37	6754.53	-42.35	6754.6	-41.83	6754.4	-41.61	6752.75
-40.86	6752.53	-39.56	6752.17	-38.79	6751.95	-38.08	6751.74	-37.38	6751.5
-36.67	6751.25	-35.96	6751.01	-35.52	6750.99	-33.46	6750.88	-32.82	6750.82
-32.42	6750.77	-31.97	6750.73	-30.13	6750.54	-28.88	6750.42	-28.17	6750.43
-26.1	6750.49	-25.34	6750.51	-24.73	6750.52	-23.53	6750.68	-23.39	6750.69

-22.51	6750.81	-22.04	6750.86	-21.8	6750.9	-21.09	6750.98	-20.69	6751.04
-20.38	6751.07	-20.04	6751.12	-19.67	6751.16	-19.35	6751.21	-18.97	6751.25
-18.54	6751.31	-17.05	6751.61	-15.55	6751.92	-15.31	6751.96	-14.72	6752.08
-13.97	6752.24	-13.3	6752.37	-11.89	6752.66	-11.28	6752.78	-11.07	6752.79
-9.93	6752.81	-8.08	6752.85	-6.93	6752.88	-6.58	6752.88	-5.51	6752.91
-5.09	6752.91	-4.55	6752.93	-3.59	6752.95	-2.68	6752.86	-1.86	6752.79
-5.51	6752.66	.83	6752.54	.89	6752.53	2.18	6752.42	3.52	6752.42
3.69	6752.43	4.87	6752.43	5.11	6752.44	6.21	6752.44	6.52	6752.45
7.94	6752.45	8.36	6752.46	9.36	6752.46	9.85	6752.47	10.77	6752.47
11.48	6752.48	11.61	6752.49	12.82	6752.53	13.6	6752.55	14.31	6752.58
14.45	6752.58	15.67	6752.62	16.44	6752.72	17.28	6752.84	17.85	6752.91
19.27	6753.1	19.97	6753.19	20.68	6753.29	21.39	6753.38	22.1	6753.48
23.22	6753.62	24.22	6753.76	24.93	6753.85	25.64	6753.95	26.19	6754.02
27.05	6754.23	28.47	6754.57	29.19	6754.75	29.53	6754.76	30.54	6754.81
30.65	6754.82	31.89	6754.88	32.72	6754.91	33.63	6754.96	34.59	6755
34.84	6755.02	35.94	6755.07	36.26	6755.08	36.97	6755.12	37.29	6755.13
38.63	6755.2	39.8	6755.25	40.51	6755.29	41.08	6755.31	41.92	6755.22
42.57	6755.14	43.34	6755.09	44.75	6755.01	46.17	6754.92	48.07	6754.81
48.29	6754.78	48.54	6754.78	49.42	6754.73	49.71	6754.69	50.03	6754.69
50.77	6754.65	51.12	6754.61	51.52	6754.6	52.12	6754.57	52.54	6754.52
53.01	6754.51	53.47	6754.49	53.96	6754.43	54.5	6754.42	54.82	6754.4
55.37	6754.34	55.99	6754.33	56.16	6754.34	56.79	6754.4	57.48	6754.41
57.83	6754.43	58.2	6754.48	58.86	6754.49	59.62	6754.56	60.21	6754.57
61.04	6754.64	61.56	6754.65	62.45	6754.72	62.9	6754.73	63.45	6754.77
63.87	6754.81	64.25	6754.81	64.58	6754.83	65.29	6754.89	65.6	6754.89
65.99	6754.92	66.43	6754.94	66.7	6754.97	66.95	6754.97	68.29	6755.05
68.83	6755.09	69.64	6755.13	70.99	6755.09	71.7	6755.15	72.33	6755.21
72.4	6755.21	73.07	6755.27	74.49	6755.39	75.2	6755.44	78.03	6755.68
79.07	6755.77	79.86	6755.83	80.15	6755.86	81.57	6755.98	81.76	6755.99
82.28	6756.04	82.85	6756.08	83.11	6756.11	83.69	6756.3	85.5	6756.91
85.8	6757.02	86.53	6757.22	87.15	6757.4	87.94	6757.62	88.5	6757.77
90.07	6758.21	91.19	6758.53	91.81	6758.7	92.54	6758.91	93.88	6759.28
94.31	6759.41	95.02	6759.6	96.28	6759.96	96.58	6760.04	97.78	6760.08
97.92	6760.08	98.56	6760.11	100.62	6760.17	100.69	6760.18	101.39	6760.18
101.97	6760.19	102.81	6760.19	103.31	6760.2	104.23	6760.2	104.66	6760.21
105.24	6760.21	105.64	6760.22	106.73	6760.22	107.06	6760.23	107.77	6760.23
108.23	6760.24	109.18	6760.24	110.05	6760.25	111.21	6760.29	111.39	6760.29
112.7	6760.33	112.74	6760.34	114.09	6760.38	114.2	6760.38	115.44	6760.42
116.26	6760.45	117.18	6760.47	117.68	6760.49	118.39	6760.51	118.67	6760.51
119.1	6760.53	119.8	6760.55	120.82	6760.52	121.66	6760.5	124.05	6760.45
124.76	6760.45	124.86	6760.44	125.47	6760.44	128.9	6760.39	129.12	6760.39
130.25	6760.37	131.84	6760.37	132.11	6760.36	135.38	6760.36	135.64	6760.35
142.37	6760.35	142.46	6760.36	145.54	6760.36	146	6760.34	147.04	6760.31
147.42	6760.29	148.53	6760.26	149.54	6760.22	150.02	6760.21	150.46	6760.19
151.51	6760.13	152.37	6760.07	153.79	6759.98	154.5	6759.94	155.21	6759.89
156.62	6759.8	157.19	6759.76	157.33	6759.76	158.04	6759.71	158.75	6759.67
158.98	6759.65	159.88	6759.59	160.16	6759.58	160.87	6759.53	161.7	6759.48

Manning's n Values		num=	4		
Sta	n Val	Sta	n Val	Sta	n Val
-214.25	.016	-84.78	.05	-41.61	.04
				-11.28	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
-41.61	-11.28	96.09	96.09	96.09		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 1790

INPUT

Description:

Station Elevation	Data	num=	490		
Sta	Elev	Sta	Elev	Sta	Elev
2.33	6756.55	2.65	6756.55	4	6756.47
5.28	6756.42	6.02	6756.38	6.27	6756.4
7.26	6756.38	7.65	6756.38	8.05	6756.41
9.06	6756.45	9.24	6756.44	10.07	6756.52
11.65	6756.66	12.21	6756.73	13.1	6756.83
14.19	6756.94	15.12	6757.02	15.65	6757.07
				16.65	6757.17
				17.15	6757.21

17.65	6757.26	18.14	6757.29	18.15	6757.3	18.65	6757.34	19.16	6757.37
19.65	6757.41	20.12	6757.44	20.17	6757.45	21.11	6757.51	21.65	6757.55
22.65	6757.59	23.09	6757.59	23.2	6757.61	23.65	6757.61	25.07	6757.64
25.23	6757.64	26.06	6757.66	26.65	6757.67	27.05	6757.71	27.25	6757.72
28.26	6757.82	29.03	6757.9	29.27	6757.93	30.02	6758.01	30.28	6758.03
31.65	6758.18	32.3	6758.27	34.32	6758.57	34.65	6758.61	34.97	6758.66
35.65	6758.75	35.96	6758.8	36.65	6758.89	37.65	6758.92	37.94	6758.95
38.36	6758.93	38.93	6758.99	39.37	6759.03	39.92	6759.09	40.38	6759.13
40.91	6759.19	41.4	6759.23	41.65	6759.26	42.41	6759.39	42.65	6759.44
43.65	6759.61	43.88	6759.64	44.43	6759.6	44.65	6759.62	45.44	6759.59
45.86	6759.57	46.65	6759.54	46.85	6759.45	47.46	6759.15	47.65	6759.05
48.29	6758.74	48.71	6758.52	48.83	6758.49	49.49	6758.29	49.74	6758.29
50.25	6758.38	50.27	6758.35	50.8	6758.46	51.06	6758.48	51.92	6758.64
52.62	6758.65	53.4	6758.71	53.99	6758.77	54.18	6758.83	54.69	6758.83
55.05	6758.87	55.26	6758.88	55.74	6759.02	56.12	6759.03	56.52	6759.21
56.93	6759.07	57.18	6759.15	57.3	6759.13	57.63	6759.11	58.08	6759.1
58.6	6759.1	58.86	6759.09	59.31	6759.09	59.64	6759.08	60.27	6759.07
61.2	6759.06	61.94	6759.03	61.98	6759.01	62.5	6759	62.76	6758.98
63.61	6758.83	64.33	6758.77	65.11	6758.69	65.27	6758.71	65.69	6758.68
66.42	6758.67	66.67	6758.66	67.45	6758.65	67.82	6758.65	69.01	6758.56
69.79	6758.49	69.95	6758.46	70.28	6758.42	70.57	6758.35	71.01	6758.3
71.35	6758.31	71.95	6758.4	72.07	6758.4	72.91	6758.52	73.14	6758.54
73.62	6758.54	73.69	6758.53	74.2	6758.54	74.47	6758.53	75.29	6758.53
76.33	6758.52	76.82	6758.51	77.6	6758.51	78.16	6758.5	78.63	6758.51
79.52	6758.54	79.94	6758.56	80.58	6758.58	81.97	6758.64	82.28	6758.64
82.71	6758.66	83.84	6758.7	84.62	6758.7	84.84	6758.71	85.4	6758.71
85.9	6758.72	86.96	6758.73	88.03	6758.72	88.53	6758.71	89.09	6758.71
89.31	6758.69	90.16	6758.69	90.87	6758.65	91.65	6758.63	92.29	6758.6
92.82	6758.57	93.21	6758.56	94.41	6758.5	95.76	6758.5	96.33	6758.49
97.11	6758.49	97.6	6758.48	98.69	6758.48	99.45	6758.46	105.05	6758.46
105.7	6758.43	106.11	6758.42	106.48	6758.4	108.04	6758.34	108.67	6758.31
109.31	6758.29	109.6	6758.27	110.34	6758.24	111.43	6758.21	112.5	6758.19
112.72	6758.18	113.51	6758.17	113.68	6758.12	114.29	6757.91	114.62	6757.81
115.07	6757.78	115.35	6758.02	115.85	6758.05	116.63	6757.86	116.75	6757.8
117.82	6757.48	118.19	6757.36	119.22	6757.05	119.94	6756.82	120.53	6756.64
121.31	6756.41	122.02	6756.19	124.2	6755.52	125.36	6755.17	126.32	6754.87
127.03	6754.72	127.56	6754.6	128.7	6754.35	129.12	6754.25	129.52	6754.17
129.9	6754.08	131.46	6753.74	132.24	6753.56	132.71	6753.46	133.02	6753.38
133.8	6753.21	134.83	6752.97	135.9	6752.73	136.14	6752.67	136.96	6752.48
137.7	6752.46	138.03	6752.44	138.49	6752.43	139.27	6752.4	140.05	6752.38
140.38	6752.36	141.22	6752.34	141.61	6752.32	142.05	6752.31	142.39	6752.29
143.17	6752.27	143.95	6752.24	144.41	6752.23	144.73	6752.21	145.62	6752.18
146.29	6752.17	147.06	6752.14	147.6	6752.13	147.85	6752.11	148.55	6752.14
148.73	6752.14	149.41	6752.09	149.73	6752.1	150.79	6752.05	150.9	6751.79
151.56	6751.74	151.68	6751.74	152.46	6751.7	152.63	6751.7	152.98	6751.66
153.24	6751.64	153.69	6751.59	155.58	6751.41	155.82	6751.38	156.36	6751.33
157.15	6751.25	158.34	6751.14	160.27	6750.94	161.05	6750.87	161.83	6750.78
162.2	6750.75	162.61	6750.7	163.26	6750.63	164.17	6750.61	164.33	6750.6
165.39	6750.57	166.67	6750.53	167.29	6750.53	167.52	6750.52	168.07	6750.52
170.42	6750.49	170.85	6750.49	171.21	6750.48	171.99	6750.48	172.55	6750.47
173.02	6750.47	173.55	6750.46	173.91	6750.46	174.33	6750.45	175.47	6750.45
175.88	6750.44	177.44	6750.44	178.02	6750.43	179.22	6750.43	179.69	6750.42
181.36	6750.42	182.12	6750.41	183.02	6750.41	183.34	6750.4	184.54	6750.4
185.6	6750.61	186.03	6750.7	186.36	6750.76	188.03	6751.1	188.37	6751.16
188.79	6751.25	189.7	6751.43	190.13	6751.52	190.92	6751.67	191.49	6751.79
191.99	6751.89	192.27	6751.94	193.04	6752.1	193.06	6752.1	193.83	6752.26
194.11	6752.31	194.61	6752.32	194.71	6752.43	195.18	6752.47	195.39	6752.54
195.99	6752.72	196.38	6752.83	197.74	6753.23	198.37	6753.41	198.52	6753.46
199.3	6753.69	200.08	6753.91	200.5	6754.04	200.86	6754.14	201.86	6754.44
202.62	6754.66	203.06	6754.72	203.2	6754.83	203.69	6754.86	203.98	6754.89
204.79	6754.94	205.81	6755.02	206.32	6755	206.88	6754.99	207.1	6754.98
207.72	6754.97	208.66	6754.94	209.44	6754.92	209.74	6754.92	210.23	6754.9
212.2	6754.85	212.57	6754.83	213.07	6754.82	214.13	6754.78	214.32	6754.78
214.74	6754.76	214.91	6754.76	215.69	6754.73	216.41	6754.71	217.25	6754.66
218.08	6754.62	218.81	6754.59	219.75	6754.53	221.15	6754.46	221.93	6754.41
222.39	6754.39	222.83	6754.36	223.09	6754.35	224.28	6754.29	225.06	6754.24
225.32	6754.23	226.03	6754.17	226.62	6754.13	227.09	6754.09	227.4	6754.04
228.1	6754.2	228.25	6754.19	228.96	6754.07	229.22	6754.13	229.74	6754.09
230.28	6754.06	230.52	6754.04	231.18	6754	231.44	6753.99	232.41	6753.93
233.11	6753.88	234.78	6753.78	235.2	6753.75	235.6	6753.73	235.98	6753.7
236.66	6753.66	237.05	6753.63	237.73	6753.59	238.79	6753.75	239.11	6753.79

240.67	6754.02	241.98	6754.22	242.23	6754.25	243.79	6754.48	244.11	6754.53
244.57	6754.68	244.79	6754.63	245.84	6754.91	246.13	6755	246.24	6755.01
246.91	6755.19	247.69	6755.39	248.37	6755.57	249.8	6755.6	250.49	6755.61
250.82	6755.61	251.47	6755.63	252.38	6755.64	252.62	6755.65	253.68	6755.67
253.94	6755.67	254.64	6755.69	255.5	6755.74	256.88	6755.83	257.57	6755.87
257.94	6755.9	259	6755.96	259.82	6756.25	260.18	6756.36	260.5	6756.48
261.13	6756.7	261.49	6756.82	261.74	6756.86	262.19	6757.03	262.52	6757.13
263.44	6757.39	264.83	6757.8	265.65	6758.03	266.37	6758.24	266.49	6758.28
268.16	6758.77	268.77	6758.94	269.64	6759.2	270.33	6759.3	272.23	6759.59
272.67	6759.66	273.45	6759.77	274.23	6759.89	275.17	6760.03	275.79	6760.13
276.02	6760.16	276.51	6760.24	277.09	6760.32	277.36	6760.43	278.1	6760.48
278.18	6760.49	278.92	6760.78	279.21	6760.8	280.28	6761.13	280.48	6761.12
281.52	6761.1	282.04	6761.08	282.82	6761.06	283.19	6761.06	283.96	6761.04
285.16	6761	285.94	6760.97	286.53	6760.96	286.89	6760.94	287.5	6760.92
287.72	6760.92	289.06	6760.87	289.87	6760.85	291.41	6760.79	291.54	6760.79
292.19	6760.76	293.75	6760.7	294.11	6760.68	294.53	6760.68	294.87	6760.65
295.69	6760.63	296.09	6760.63	296.23	6760.62	296.54	6760.62	297.65	6760.59
298.43	6760.58	298.62	6760.57	299.43	6760.56	299.88	6760.55	299.99	6760.54
300.77	6760.53	301.55	6760.51	303.22	6760.51	303.68	6760.5	305.81	6760.5
306.24	6760.49	308.58	6760.49	309	6760.48	311.57	6760.48	311.7	6760.46
312.48	6760.46	313.24	6760.44	314.04	6760.43	314.91	6760.43	315.43	6760.42

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2.33	.05	150.9	.04	191.49	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	150.9	191.49		216.99	217.01		216.99	
							.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
2.33	43.88	6759.64	F

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 1789

INPUT

Description:

Station	Elevation	Data	num=	406					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
113.32	6756.78	113.36	6756.77	113.5	6756.74	113.85	6756.67	114.12	6756.61
114.59	6756.52	114.88	6756.46	115.56	6756.33	115.64	6756.31	115.67	6756.31
115.76	6756.3	116.4	6756.27	116.76	6756.26	117.16	6756.24	117.66	6756.22
117.85	6756.21	117.93	6756.21	118.1	6756.2	118.69	6756.17	118.94	6756.16
119.45	6756.17	119.56	6756.14	120.03	6756.13	120.21	6756.13	120.64	6756.12
120.97	6756.13	121.11	6756.12	121.47	6756.1	121.73	6756.09	122.2	6756.06
122.5	6756.05	123.18	6756.01	123.26	6756.01	123.29	6756	123.37	6756
124.02	6755.96	124.38	6755.93	124.78	6755.91	125.28	6755.87	125.47	6755.86
125.54	6755.86	125.72	6755.84	126.3	6755.81	126.55	6755.79	127.06	6755.75
127.18	6755.75	127.64	6755.72	127.83	6755.7	128.26	6755.67	128.59	6755.65
128.73	6755.64	129.08	6755.62	129.35	6755.6	129.82	6755.57	130.11	6755.55
130.8	6755.5	130.87	6755.5	130.91	6755.49	130.99	6755.49	131.63	6755.44
131.99	6755.42	132.4	6755.41	133.08	6755.41	133.16	6755.4	133.92	6755.4
134.17	6755.39	134.68	6755.39	134.79	6755.38	135.44	6755.38	135.87	6755.37
136.2	6755.36	136.35	6755.36	136.7	6755.35	136.97	6755.35	137.43	6755.34
137.73	6755.32	138.41	6755.29	138.49	6755.28	138.52	6755.28	138.6	6755.27
139.25	6755.23	139.61	6755.21	140.01	6755.18	140.51	6755.15	140.7	6755.14
140.77	6755.13	140.95	6755.12	141.54	6755.08	141.79	6755.07	142.3	6755.03
142.41	6755.03	142.87	6755	143.06	6754.99	143.49	6754.97	143.82	6754.96
143.96	6754.95	144.31	6754.94	144.58	6754.93	145.05	6754.91	145.34	6754.9
146.03	6754.88	146.1	6754.87	146.22	6754.87	146.87	6754.85	147.22	6754.83
147.63	6754.81	148.12	6754.8	148.31	6754.79	148.39	6754.79	148.57	6754.78
149.15	6754.76	149.4	6754.75	149.91	6754.73	150.02	6754.72	150.49	6754.7
150.67	6754.7	151.11	6754.68	151.44	6754.66	151.58	6754.66	151.93	6754.64
152.2	6754.63	152.66	6754.61	152.96	6754.59	153.65	6754.56	153.72	6754.55
153.83	6754.55	154.48	6754.54	154.84	6754.53	155.24	6754.52	155.74	6754.51
155.93	6754.5	156.18	6754.5	156.77	6754.49	157.02	6754.48	157.53	6754.46
157.64	6754.47	158.1	6754.45	158.29	6754.44	158.72	6754.43	159.05	6754.42
159.19	6754.42	159.54	6754.39	159.81	6754.38	160.28	6754.35	160.57	6754.33

161.26	6754.29	161.34	6754.28	161.45	6754.28	162.1	6754.24	162.46	6754.21
162.86	6754.19	163.35	6754.16	163.54	6754.15	163.62	6754.14	163.8	6754.13
164.38	6754.1	164.63	6754.08	165.14	6754.07	165.25	6754.07	165.72	6754.05
165.91	6754.05	166.34	6754.04	166.67	6754.03	166.81	6754.03	167.16	6754.02
167.43	6754.02	167.9	6754	168.19	6754	168.88	6753.99	168.95	6753.99
168.98	6753.98	169.06	6753.98	169.71	6753.97	170.07	6753.97	170.48	6753.96
170.97	6753.95	171.24	6753.95	171.42	6753.94	172	6753.94	172.25	6753.93
172.76	6753.92	173.34	6753.92	173.52	6753.91	174.28	6753.91	174.42	6753.92
174.77	6753.92	175.05	6753.93	175.51	6753.94	175.81	6753.98	176.5	6754.01
176.57	6754.02	176.6	6754.02	176.68	6754.03	177.33	6754.11	177.69	6754.13
178.09	6754.17	178.58	6754.22	178.78	6754.24	178.85	6754.25	179.03	6754.27
179.61	6754.32	179.86	6754.35	180.31	6753.6	180.32	6753.75	180.32	6753.6
180.66	6753.49	183.96	6752.71	185.95	6751.85	190.33	6751.14	191.79	6750.87
194.03	6750.72	197.63	6750.43	199.99	6750.42	203.48	6750.4	206.26	6750.38
208.82	6750.37	209.65	6750.37	215.16	6750.36	218.76	6750.36	219.31	6750.35
221.01	6750.35	224.01	6750.36	226.85	6750.35	228.97	6750.37	231.26	6750.44
232.69	6750.49	238.39	6750.63	238.54	6750.64	238.63	6750.64	244.38	6750.36
248.3	6750.47	250.22	6750.63	253.17	6751.79	256.07	6752.74	257.96	6753.17
261.91	6753.83	262.05	6753.86	262.5	6753.94	262.61	6753.96	262.79	6753.99
263.34	6754.09	263.67	6754.15	264.06	6754.22	264.72	6754.35	264.79	6754.36
264.84	6754.37	265.01	6754.4	265.52	6754.49	266	6754.58	266.25	6754.63
266.65	6754.7	266.98	6754.76	267.17	6754.8	267.71	6754.9	267.97	6754.95
268.34	6755.02	268.43	6755.03	268.59	6755.06	269.16	6755.17	269.51	6755.24
269.89	6755.31	270.52	6755.42	270.62	6755.44	270.68	6755.45	270.93	6755.5
271.35	6755.58	271.85	6755.67	272.07	6755.72	272.45	6755.79	272.8	6755.85
273.02	6755.89	273.53	6755.99	273.88	6756.05	274.18	6756.11	274.26	6756.13
274.38	6756.15	274.99	6756.28	275.35	6756.35	275.72	6756.43	276.31	6756.55
276.44	6756.58	276.52	6756.59	276.84	6756.66	277.17	6756.73	277.69	6756.83
277.9	6756.88	278.25	6756.95	278.63	6757.03	278.86	6757.07	279.36	6757.18
279.8	6757.27	280.03	6757.31	280.09	6757.33	280.18	6757.35	280.81	6757.48
281.2	6757.56	281.54	6757.63	282.11	6757.74	282.27	6757.78	282.37	6757.8
282.75	6757.88	283	6757.93	283.53	6758.04	283.73	6758.08	284.04	6758.14
284.45	6758.23	284.7	6758.28	285.18	6758.39	285.71	6758.48	285.87	6758.52
286.64	6758.52	287.04	6758.51	287.37	6758.51	287.91	6758.5	288.21	6758.5
288.67	6758.49	288.82	6758.49	289.38	6758.48	289.84	6758.48	290.28	6758.47
290.55	6758.47	291.01	6758.46	291.63	6758.45	291.77	6758.45	292.47	6758.44
292.88	6758.44	293.19	6758.43	293.92	6758.43	294.05	6758.42	294.65	6758.42
295.22	6758.41	295.38	6758.41	295.64	6758.4	296.39	6758.4	296.83	6758.39
297.54	6758.38	297.57	6758.38	298.29	6758.49	298.73	6758.56	299.02	6758.6
299.5	6758.68	299.75	6758.72	299.9	6758.74	300.48	6758.83	300.5	6758.83
301.06	6758.92	301.2	6758.94	301.43	6758.97	301.93	6759.05	302.23	6759.1
302.66	6759.16	303.37	6759.27	303.39	6759.27	303.4	6759.28	303.45	6759.28
304.12	6759.38	304.57	6759.45	304.84	6759.5	305.3	6759.57	305.57	6759.58
305.74	6759.59	306.3	6759.62	306.41	6759.63	306.91	6759.65	307.03	6759.66
307.23	6759.67	307.76	6759.7	308.08	6759.71	308.49	6759.74	309.16	6759.77
309.21	6759.78	309.24	6759.78	309.37	6759.8	309.94	6759.92	310.41	6760.01
310.67	6760.06	311.1	6760.14	311.4	6760.2	311.58	6760.24	312.13	6760.35
312.33	6760.39	312.75	6760.47	312.86	6760.48	313.03	6760.53	313.58	6760.64
313.92	6760.7	314.31	6760.72	314.96	6760.91	315.04	6760.92	315.09	6760.93
315.28	6760.97	315.77	6760.97	316.26	6761.11	316.5	6761.14	316.89	6761.2
317.22	6761.22	317.43	6761.27	317.95	6761.35	318.24	6761.39	318.59	6761.44
318.68	6761.45	318.83	6761.47	319.41	6761.55	319.76	6761.6	320.14	6761.66
320.62	6761.66								

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
113.32	.05	180.32	.04	261.91	.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	180.32	261.91		144.48	144.48	144.48		.1	.3

CROSS SECTION

RIVER: Walton Creek
 REACH: lower-main split RS: 1640.

INPUT									
Description:									
Station	Elevation	Data	num=	78					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev

num=													
Sta	Hi	Cord	Lo Cord		Sta	Hi	Cord	Lo Cord		Sta	Hi	Cord	Lo Cord
-212.95		6760			173.05	6757.64	6754.64			191.05	6757.53	6754.53	
233.55	6757.78	6754.78			472.05	6761.3							

Upstream Bridge Cross Section Data

Station Elevation Data									
num= 18									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-212.95	6760	-182.95	6756	-12.95	6751.95	134.18	6752	135.17	6752
162.46	6752	172.05	6752	172.05	6747.66	190.95	6745.89	193.65	6745.6
212.35	6745.19	213.95	6744.57	221.05	6745.25	221.95	6747.93	222.65	6746.67
233.05	6747.13	233.05	6756	472.05	6758				

Manning's n Values							
num= 4							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
-212.95	.05	172.05	.03	212.35	.015	233.05	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	172.05	233.05		.3	.5

Ineffective Flow				
num= 2				
Sta L	Sta R	Elev	Permanent	
-212.95	172.05	6757.5	F	
233.05	472.05	6757.5	F	

Downstream Deck/Roadway Coordinates

num= 5									
Sta	Hi	Cord	Lo	Cord	Sta	Hi	Cord	Lo	Cord
10		6760			386	6757.64	6754.64		
446.5	6757.78	6754.78			688	6761.3			

Downstream Bridge Cross Section Data

Station Elevation Data									
num= 17									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10	6758	47	6754	385	6752	387	6746.2	405.9	6745.22
406.3	6745.25	407.4	6745.41	407.9	6745.42	426.9	6744.9	427.7	6744.9
428.7	6745.85	435.8	6746.23	436.2	6747.84	436.9	6745.97	448	6746.48
448	6752	688	6753.82						

Manning's n Values							
num= 4							
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
10	.05	385	.03	426.9	.015	448	.05

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	385	448		.3	.5

Ineffective Flow				
num= 2				
Sta L	Sta R	Elev	Permanent	
10	385	6757.5	F	
448	688	6757.5	F	

Upstream Embankment side slope	=	0 horiz. to 1.0 vertical
Downstream Embankment side slope	=	0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow	=	.95
Elevation at which weir flow begins	=	
Energy head used in spillway design	=	
Spillway height used in design	=	
Weir crest shape	=	Broad Crested

Number of Piers = 2

Pier Data

Pier Station	Upstream=	192.05	Downstream=	405
Upstream num= 2				
Width	Elev	Width	Elev	
2	6700	2	6800	
Downstream num= 2				
Width	Elev	Width	Elev	
2	6700	2	6800	

Pier Data

Pier Station	Upstream=	213.05	Downstream=	426
Upstream num= 2				
Width	Elev	Width	Elev	
2	6700	2	6800	
Downstream num= 2				
Width	Elev	Width	Elev	

2 6700 2 6800

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data

Energy

Selected Low Flow Methods = Energy

High Flow Method

Pressure and Weir flow

Submerged Inlet Cd =

Submerged Inlet + Outlet Cd = .8

Max Low Cord =

Additional Bridge Parameters

Add Friction component to Momentum

Do not add Weight component to Momentum

Class B flow critical depth computations use critical depth

inside the bridge at the upstream end

Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: Walton Creek

REACH: lower RS: 1455

INPUT

Description:

Station	Elevation	Data	num=	17	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10	6758	47	6754	385	6752	387	6746.2	405.9	6745.22			
406.3	6745.25	407.4	6745.41	407.9	6745.42	426.9	6744.9	427.7	6744.9			
428.7	6745.85	435.8	6746.23	436.2	6747.84	436.9	6745.97	448	6746.48			
448	6752	688	6753.82									

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
10	.05	385	.04	448	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	385	448		0	0	.3	.5

Ineffective Flow	num=	2	
Sta L	Sta R	Elev	Permanent
10	385	6757.5	F
448	688	6757.5	F

SUMMARY OF MANNING'S N VALUES

River:Walton Creek

Reach	River Sta.	n1	n2	n3	n4	n5	n6
lower-DE	11692	.06	.04	.06			
lower-DE	11280	.06	.04	.06			
lower-DE	10714	.06	.04	.06			
lower-DE	9997	.06	.04	.06			
lower-DE	9471	.06	.04	.06			
lower-DE	9027	.06	.04	.06			
lower-DE	8734	.06	.04	.06			
lower-DE	8402	.06	.04	.06			
lower-DE	8070	.06	.04	.06			
lower-DE	7577	.06	.04	.06			
lower-DE	7176.41	.06	.04	.06			
lower-DE	6775.68	.06	.04	.06			
lower-DE	6375	.06	.04	.06			
lower-split	1001	.016	.025	.06	.04	.06	.04
.06							

lower-split	1000.8	Lat Struct					
lower-split	1000	.016	.025	.04	.05	.04	.05
lower-split	999.7	Lat Struct					
lower-split	999.6	.016	.025	.05	.04	.05	
lower-split	999	.016	.025	.05	.04	.05	
lower-split	998.8	.016	.04	.04	.05		
lower-split	998.7	.016	.04	.05			
lower-split	998.6	Inl Struct					
lower-split	998.56	.045	.04	.045			
lower-split	998.5	.016	.025	.4	.02	.016	
lower-split	998.46	Culvert					
lower-split	998.4	.016	.025	.04	.05		
lower-split	998.35	Lat Struct					
lower-split	998.3	.016	.025	.04			
lower-split	998.2	.016	.04				
lower-split	998	.016	.04	.038			
lower-split	997.8	.016	.04	.038			
lower-split	997	.016	.025	.035	.016		
lower-split	996.45	Culvert					
lower-split	996	.016	.04	.016			
lower-split	995.7	.016	.04	.05			
lower-split	995.5	.016	.025	.035	.045		
lower-split	995.45	Culvert					
lower-split	995.4	.016	.038	.04			
lower-split	995.2	.016	.038	.04			
lower-split	995	.038	.038	.05			
lower-main split	5893	.05	.04	.05			
lower-main split	5892.0	.05	.04	.05			
lower-main split	5550.12	.05	.04	.05			
lower-main split	5209	.05	.04	.05			
lower-main split	4667	.05	.04	.05			
lower-main split	4571.82	.05	.04	.05			
lower-main split	4262.82	.05	.04	.05			
lower-main split	4220.82	Bridge					
lower-main split	4178.71	.05	.04	.05			
lower-main split	4033.14	.05	.04	.05			
lower-main split	3887.57	.05	.04	.05			
lower-main split	3742	.05	.04	.05			
lower-main split	3640	.05	.04	.05			
lower-main split	3639	.05	.04	.05			
lower-main split	3622	Bridge					
lower-main split	3609	.05	.04	.05			
lower-main split	3379	.05	.04	.05			
lower-main split	3035	.05	.04	.05			
lower-main split	2665	.1	.016	.05	.04	.05	
lower-main split	2539	.1	.016	.05	.04	.05	
lower-main split	2528	Bridge					
lower-main split	2517	.1	.05	.016	.05	.04	.05
lower-main split	2294	.1	.016	.05	.04	.05	
lower-main split	2103	.016	.05	.04	.05		
lower-main split	1790	.05	.04	.05			
lower-main split	1789	.05	.04	.05			
lower-main split	1640.	.05	.04	.05			
lower	1578	.05	.04	.05			
lower	1516	Bridge					
lower	1455	.05	.04	.05			

SUMMARY OF REACH LENGTHS

River: Walton Creek

Reach	River Sta.	Left	Channel	Right
lower-DE	11692	420	411.17	390.88
lower-DE	11280	570	566.57	485.84
lower-DE	10714	505.72	625.08	497.71
lower-DE	9997	498.86	617.68	510
lower-DE	9471	313.68	444.1	280.09

lower-DE	9027	285.55	293.44	280.09
lower-DE	8734	275	331.69	275
lower-DE	8402	275	331.69	275
lower-DE	8070	335	493.05	345.36
lower-DE	7577	132.77	132.77	132.77
lower-DE	7176.41	163.08	163.08	163.08
lower-DE	6775.68	132.85	132.85	132.85
lower-DE	6375	223	223	223
lower-split	1001	224.95	230.26	224.95
lower-split	1000.8	Lat Struct		
lower-split	1000	573.3	630.03	573.3
lower-split	999.7	Lat Struct		
lower-split	999.6	309.31	313.36	309.31
lower-split	999	541.75	549.59	541.75
lower-split	998.8	78.95	79.9	78.95
lower-split	998.7	137.57	137.57	137.57
lower-split	998.6	Inl Struct		
lower-split	998.56	139.94	139.94	139.94
lower-split	998.5	146.04	146.04	146.04
lower-split	998.46	Culvert		
lower-split	998.4	60.64	59.41	60.64
lower-split	998.35	Lat Struct		
lower-split	998.3	145.25	145.76	145.25
lower-split	998.2	164.57	165.08	164.57
lower-split	998	117.79	106.55	117.79
lower-split	997.8	450.46	450.19	450.46
lower-split	997	76.24	76.23	76.24
lower-split	996.45	Culvert		
lower-split	996	207.67	207.09	207.67
lower-split	995.7	159.9	159.28	159.9
lower-split	995.5	105.25	105.25	105.25
lower-split	995.45	Culvert		
lower-split	995.4	197.72	197.72	197.72
lower-split	995.2	127.75	127.76	127.75
lower-split	995	0	0	0
lower-main split	5893	263.61	263.61	263.61
lower-main split	5892.0	142.82	142.83	142.82
lower-main split	5550.12	190.33	190.32	190.33
lower-main split	5209	949.69	949.69	949.69
lower-main split	4667	112.11	112.11	112.11
lower-main split	4571.82	307.12	307.12	307.12
lower-main split	4262.82	84.42	84.42	84.42
lower-main split	4220.82	Bridge		
lower-main split	4178.71	151.66	151.67	151.66
lower-main split	4033.14	150.8	150.79	150.8
lower-main split	3887.57	146.75	146.75	146.75
lower-main split	3742	54.92	54.92	54.92
lower-main split	3640	54.86	54.86	54.86
lower-main split	3639	30.52	30.51	30.52
lower-main split	3622	Bridge		
lower-main split	3609	221.26	221.27	221.26
lower-main split	3379	315	355.57	350
lower-main split	3035	373.7	373.7	373.7
lower-main split	2665	129.59	130.14	129.59
lower-main split	2539	21.59	21.03	21.59
lower-main split	2528	Bridge		
lower-main split	2517	219.85	219.86	219.85
lower-main split	2294	191.29	191.29	191.29
lower-main split	2103	96.09	96.09	96.09
lower-main split	1790	216.99	217.01	216.99
lower-main split	1789	144.48	144.48	144.48
lower-main split	1640.	0	0	0
lower	1578	122	122	122
lower	1516	Bridge		
lower	1455	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Walton Creek

Reach	River Sta.	Contr.	Expan.
lower-DE	11692	.1	.3
lower-DE	11280	.1	.3
lower-DE	10714	.1	.3
lower-DE	9997	.1	.3
lower-DE	9471	.1	.3
lower-DE	9027	.1	.3
lower-DE	8734	.1	.3
lower-DE	8402	.1	.3
lower-DE	8070	.1	.3
lower-DE	7577	.1	.3
lower-DE	7176.41	.1	.3
lower-DE	6775.68	.1	.3
lower-DE	6375	.1	.3
lower-split	1001	.1	.3
lower-split	1000.8	Lat Struct	
lower-split	1000	.1	.3
lower-split	999.7	Lat Struct	
lower-split	999.6	.1	.3
lower-split	999	.1	.3
lower-split	998.8	.1	.3
lower-split	998.7	.1	.3
lower-split	998.6	Inl Struct	
lower-split	998.56	.1	.3
lower-split	998.5	.3	.5
lower-split	998.46	Culvert	
lower-split	998.4	.3	.5
lower-split	998.35	Lat Struct	
lower-split	998.3	.1	.3
lower-split	998.2	.1	.3
lower-split	998	.1	.3
lower-split	997.8	.1	.3
lower-split	997	.3	.5
lower-split	996.45	Culvert	
lower-split	996	.3	.5
lower-split	995.7	.1	.3
lower-split	995.5	.3	.5
lower-split	995.45	Culvert	
lower-split	995.4	.3	.5
lower-split	995.2	.1	.3
lower-split	995	.1	.3
lower-main split	5893	.1	.3
lower-main split	5892.0	.1	.3
lower-main split	5550.12	.1	.3
lower-main split	5209	.1	.3
lower-main split	4667	.1	.3
lower-main split	4571.82	.1	.3
lower-main split	4262.82	.3	.5
lower-main split	4220.82	Bridge	
lower-main split	4178.71	.3	.5
lower-main split	4033.14	.1	.3
lower-main split	3887.57	.1	.3
lower-main split	3742	.1	.3
lower-main split	3640	.1	.3
lower-main split	3639	.3	.5
lower-main split	3622	Bridge	
lower-main split	3609	.3	.5
lower-main split	3379	.1	.3
lower-main split	3035	.1	.3
lower-main split	2665	.3	.5
lower-main split	2539	.3	.5
lower-main split	2528	Bridge	
lower-main split	2517	.3	.5
lower-main split	2294	.1	.3
lower-main split	2103	.1	.3
lower-main split	1790	.1	.3
lower-main split	1789	.1	.3
lower-main split	1640.	.3	.5

lower	1578		.3	.5
lower	1516	Bridge		
lower	1455		.3	.5

Profile Output Table - Standard Table 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
lower-DE	11692	100-yr	1883.00	6799.38	6804.48	6804.48	6805.22	0.008492	7.52	380.77	310.65	0.73
lower-DE	11280	100-yr	1883.00	6791.13	6795.21	6794.38	6795.65	0.010546	6.21	426.35	309.53	0.76
lower-DE	10714	100-yr	1883.00	6783.81	6790.43	6789.96	6790.75	0.007455	4.53	415.78	244.92	0.61
lower-DE	9997	100-yr	1883.00	6781.76	6785.56	6785.12	6785.95	0.008868	6.90	528.67	503.47	0.73
lower-DE	9471	100-yr	1883.00	6775.50	6780.79	6780.45	6781.44	0.006749	6.88	360.55	201.80	0.64
lower-DE	9027	100-yr	1883.00	6773.68	6777.23	6776.70	6778.03	0.009136	7.18	268.20	996.85	0.74
lower-DE	8734	100-yr	1883.00	6771.83	6777.12	6775.11	6777.21	0.000891	2.47	890.94	1784.04	0.24
lower-DE	8402	100-yr	1883.00	6772.45	6776.76	6775.66	6776.85	0.001415	2.79	953.02	1642.82	0.29
lower-DE	8070	100-yr	1883.00	6773.07	6775.39	6775.39	6775.75	0.018372	6.05	494.78	1391.90	0.93
lower-DE	7577	100-yr	1883.00	6765.79	6768.57	6767.68	6768.63	0.003756	2.91	1018.87	1277.80	0.43
lower-DE	7176.41	100-yr	1883.00	6764.97	6768.32	6766.75	6768.39	0.001070	2.26	955.69	821.63	0.25
lower-DE	6775.68	100-yr	1883.00	6765.16	6768.29	6768.29	6768.30	0.000259	1.14	2513.64	1128.41	0.12
lower-DE	6375	100-yr	1883.00	6764.27	6767.28	6767.11	6767.30	0.000661	1.59	1854.47	1047.96	0.19
lower-split	1001	100-yr	497.22	6763.00	6766.42	6766.42	6767.01	0.011492	6.54	100.23	697.07	0.79
lower-split	1000.8	100-yr	Lat Struct									
lower-split	1000		504.01	6763.04	6765.21		6765.22	0.000068	0.31	878.21	458.37	0.05
lower-split	999.7	100-yr	Lat Struct									
lower-split	999.6		504.02	6761.26	6765.13		6765.14	0.000343	1.36	671.56	492.12	0.14
lower-split	999	100-yr	504.59	6757.51	6765.11		6765.11	0.000035	0.61	1234.48	366.86	0.05
lower-split	998.8	100-yr	458.90	6756.96	6765.10		6765.10	0.000015	0.49	1220.24	247.11	0.03
lower-split	998.7	100-yr	428.72	6758.40	6765.03	6761.78	6765.09	0.000384	1.90	235.02	125.90	0.16
lower-split	998.6	100-yr	Inl Struct									
lower-split	998.56		428.72	6757.62	6762.20		6762.25	0.000742	1.92	223.94	85.49	0.21
lower-split	998.5	100-yr	358.53	6757.02	6762.20	6759.75	6762.22	0.000065	0.08	360.32	120.61	0.01
lower-split	998.46	100-yr	Culvert									
lower-split	998.4		358.53	6756.42	6761.20		6761.23	0.000350	1.38	271.45	113.43	0.14
lower-split	998.35	100-yr	Lat Struct									
lower-split	998.3		358.54	6755.91	6761.19		6761.21	0.000248	1.20	309.46	132.32	0.12
lower-split	998.2	100-yr	358.54	6754.38	6761.17		6761.18	0.000140	1.02	364.39	127.78	0.09
lower-split	998	100-yr	359.33	6754.86	6761.15		6761.16	0.000108	1.01	401.85	146.95	0.09
lower-split	997.8	100-yr	360.05	6753.98	6761.14		6761.15	0.000069	0.78	461.45	114.49	0.07
lower-split	997	100-yr	360.05	6753.95	6761.04	6758.11	6761.09	0.000357	1.88	197.24	117.94	0.17
lower-split	996.45	100-yr	Culvert									
lower-split	996		360.05	6752.86	6760.51		6760.59	0.000680	2.35	164.92	109.21	0.20
lower-split	995.7	100-yr	360.05	6754.13	6760.41		6760.46	0.000491	1.84	213.68	95.34	0.17
lower-split	995.5	100-yr	360.05	6752.66	6760.35	6756.87	6760.39	0.000334	2.04	246.34	92.00	0.16
lower-split	995.45	100-yr	Culvert									
lower-split	995.4		360.05	6751.50	6758.49	6755.38	6758.58	0.000642	2.55	169.87	60.00	0.21
lower-split	995.2	100-yr	360.05	6752.33	6756.78	6756.78	6757.92	0.014206	8.68	44.36	22.70	0.91
lower-split	995	100-yr	360.05	6751.22	6755.11		6755.52	0.005676	5.46	78.35	40.99	0.59
lower-main split	5893	100-yr	1385.78	6764.64	6766.85		6767.01	0.003860	3.31	438.61	283.68	0.44
lower-main split	5892.0	100-yr	1378.99	6761.21	6764.73	6764.73	6765.42	0.009875	7.29	257.31	200.81	0.77
lower-main split	5550.12	100-yr	1524.47	6761.21	6763.99		6764.15	0.006023	4.53	555.81	526.35	0.57
lower-main split	5209	100-yr	1524.47	6759.71	6763.14	6762.13	6763.27	0.003625	2.98	563.36	460.97	0.42
lower-main split	4667	100-yr	1524.47	6757.16	6761.93	6760.44	6761.97	0.000687	2.40	1154.95	653.12	0.21

lower-main split	4571.82	100-yr	1524.47	6757.22	6761.64	6760.41	6761.83	0.002302	4.48	511.09	250.47	0.39
lower-main split	4262.82	100-yr	1524.47	6754.54	6760.65	6759.95	6761.02	0.002889	5.66	411.23	556.31	0.45
lower-main split	4220.82		Bridge									
lower-main split	4178.71	100-yr	1524.47	6753.81	6759.94	6758.44	6760.06	0.001216	3.77	673.87	284.71	0.30
lower-main split	4033.14	100-yr	1522.95	6753.43	6759.63		6759.83	0.001572	4.24	565.37	370.53	0.34
lower-main split	3887.57	100-yr	1522.95	6752.84	6759.22		6759.53	0.002372	5.12	434.34	207.98	0.41
lower-main split	3742	100-yr	1522.95	6752.95	6759.14		6759.24	0.001084	3.65	759.06	321.61	0.28
lower-main split	3640	100-yr	1522.95	6752.89	6758.79	6757.43	6759.13	0.002681	5.04	384.66	172.98	0.43
lower-main split	3639	100-yr	1522.95	6752.65	6758.69	6756.38	6758.99	0.002118	4.40	347.87	84.60	0.38
lower-main split	3622		Bridge									
lower-main split	3609	100-yr	1522.95	6753.33	6758.53		6758.89	0.003127	4.86	314.42	109.93	0.45
lower-main split	3379	100-yr	1522.95	6752.32	6757.93	6756.17	6758.26	0.002477	4.95	400.02	532.82	0.41
lower-main split	3035	100-yr	1623.95	6751.55	6757.58	6755.54	6757.69	0.001001	3.09	712.00	654.34	0.26
lower-main split	2665	100-yr	1623.95	6747.30	6757.56		6757.58	0.000090	1.50	1924.90	516.82	0.09
lower-main split	2539	100-yr	1623.95	6747.21	6757.54	6750.75	6757.57	0.000106	1.27	1540.58	444.97	0.09
lower-main split	2528		Bridge									
lower-main split	2517	100-yr	1623.95	6747.41	6757.48		6757.53	0.000242	1.77	923.11	185.90	0.13
lower-main split	2294	100-yr	1623.95	6751.03	6757.19		6757.38	0.001420	3.86	523.06	172.29	0.32
lower-main split	2103	100-yr	1623.95	6750.42	6756.73		6757.03	0.002272	5.43	450.54	150.05	0.41
lower-main split	1790	100-yr	1623.95	6750.40	6756.58	6754.38	6756.84	0.001566	4.71	476.40	148.53	0.35
lower-main split	1789	100-yr	1623.95	6750.35	6756.40		6756.56	0.000883	3.38	557.02	160.36	0.26
lower-main split	1640.	100-yr	1623.95	6750.41	6754.60	6754.40	6756.11	0.012308	9.89	167.48	62.65	0.90
lower	1578	100-yr	1984.00	6744.57	6755.26	6749.30	6755.46	0.000551	3.55	559.48	385.01	0.21
lower	1516		Bridge									
lower	1455	100-yr	1984.00	6744.90	6755.04	6748.88	6755.22	0.000549	3.40	583.77	650.62	0.20

Profile Output Table - Standard Table 2

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frctn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
lower-DE	11692	100-yr	6805.22	6804.48	0.74	3.85	0.09	306.82	1575.97	0.21	310.65
lower-DE	11280	100-yr	6795.65	6795.21	0.43	4.86	0.03	2.11	1193.55	687.35	309.53
lower-DE	10714	100-yr	6790.75	6790.43	0.32	4.79	0.01		1883.00		244.92
lower-DE	9997	100-yr	6785.95	6785.56	0.39	4.48	0.03	1.20	856.95	1024.85	503.47
lower-DE	9471	100-yr	6781.44	6780.79	0.65	3.40	0.01	226.55	1656.45		201.80
lower-DE	9027	100-yr	6778.03	6777.23	0.80	0.61	0.21		1877.16	5.84	996.85
lower-DE	8734	100-yr	6777.21	6777.12	0.09	0.36	0.00	178.95	1702.00	2.05	1784.04
lower-DE	8402	100-yr	6776.85	6776.76	0.09	1.08	0.03	536.35	1341.43	5.22	1642.82
lower-DE	8070	100-yr	6775.75	6775.39	0.36	2.80	0.09	854.15	1028.85		1391.90
lower-DE	7577	100-yr	6768.63	6768.57	0.06	0.24	0.00	1539.37	343.63		1277.80
lower-DE	7176.41	100-yr	6768.39	6768.32	0.07	0.08	0.02	147.66	1729.88	5.46	821.63
lower-DE	6775.68	100-yr	6768.30	6768.29	0.01	0.05	0.00	1616.53	132.90	133.57	1128.41
lower-DE	6375	100-yr	6767.30	6767.28	0.02	0.28	0.01	1557.55	224.70	100.75	1047.96
lower-split	1001	100-yr	6767.01	6766.42	0.59	0.05	0.18	60.00	437.14	0.08	697.07
lower-split	1000.8		Lat Struct								
lower-split	1000	100-yr	6765.22	6765.21	0.01	0.08	0.00	474.60	14.51	14.90	458.37
lower-split	999.7		Lat Struct								
lower-split	999.6	100-yr	6765.14	6765.13	0.01	0.02	0.00	169.10	140.31	194.61	492.12

lower-split	999	100-yr	6765.11	6765.11	0.00	0.01	0.00	242.75	89.29	172.55	366.86
lower-split	998.8	100-yr	6765.10	6765.10	0.00	0.00	0.01	133.55	79.86	245.49	247.11
lower-split	998.7	100-yr	6765.09	6765.03	0.06			3.84	423.80	1.08	125.90
lower-split	998.6		Inl Struct								
lower-split	998.56	100-yr	6762.25	6762.20	0.06	0.02	0.01		427.73	0.99	85.49
lower-split	998.5	100-yr	6762.22	6762.20	0.02			1.88	4.86	351.80	120.61
lower-split	998.46		Culvert								
lower-split	998.4	100-yr	6761.23	6761.20	0.03	0.02	0.00	31.80	316.26	10.47	113.43
lower-split	998.35		Lat Struct								
lower-split	998.3	100-yr	6761.21	6761.19	0.02	0.03	0.00		352.95	5.59	132.32
lower-split	998.2	100-yr	6761.18	6761.17	0.02	0.02	0.00	0.12	354.40	4.01	127.78
lower-split	998	100-yr	6761.16	6761.15	0.01	0.01	0.00	8.51	313.09	37.74	146.95
lower-split	997.8	100-yr	6761.15	6761.14	0.01	0.06	0.00		359.93	0.12	114.49
lower-split	997	100-yr	6761.09	6761.04	0.05			2.80	203.10	154.15	117.94
lower-split	996.45		Culvert								
lower-split	996	100-yr	6760.59	6760.51	0.08	0.12	0.02	0.60	338.23	21.23	109.21
lower-split	995.7	100-yr	6760.46	6760.41	0.05	0.06	0.00	1.88	347.94	10.23	95.34
lower-split	995.5	100-yr	6760.39	6760.35	0.05			0.34	244.48	115.24	92.00
lower-split	995.45		Culvert								
lower-split	995.4	100-yr	6758.58	6758.49	0.09	0.35	0.32	1.01	292.10	66.94	60.00
lower-split	995.2	100-yr	6757.92	6756.78	1.14	1.09	0.22	2.48	348.81	8.76	22.70
lower-split	995	100-yr	6755.52	6755.11	0.41	0.00	0.06	9.16	302.86	48.03	40.99
lower-main split	5893	100-yr	6767.01	6766.85	0.17	1.54	0.05	53.17	1332.60		283.68
lower-main split	5892.0	100-yr	6765.42	6764.73	0.69	1.07	0.16	215.34	1121.63	42.02	200.81
lower-main split	5550.12	100-yr	6764.15	6763.99	0.16	0.88	0.01	972.70	538.29	13.47	526.35
lower-main split	5209	100-yr	6763.27	6763.14	0.13	1.27	0.03	146.40	1378.07		460.97
lower-main split	4667	100-yr	6761.97	6761.93	0.04	0.13	0.02	978.10	490.76	55.60	653.12
lower-main split	4571.82	100-yr	6761.83	6761.64	0.19	0.79	0.02	808.80	689.27	26.39	250.47
lower-main split	4262.82	100-yr	6761.02	6760.65	0.37	0.08	0.15	12.69	1064.35	447.43	556.31
lower-main split	4220.82		Bridge								
lower-main split	4178.71	100-yr	6760.06	6759.94	0.13	0.21	0.02	387.49	710.23	426.75	284.71
lower-main split	4033.14	100-yr	6759.83	6759.63	0.20	0.29	0.01	315.00	1029.72	178.23	370.53
lower-main split	3887.57	100-yr	6759.53	6759.22	0.31	0.23	0.06	392.62	1118.22	12.11	207.98
lower-main split	3742	100-yr	6759.24	6759.14	0.10	0.09	0.02	645.35	479.58	398.02	321.61
lower-main split	3640	100-yr	6759.13	6758.79	0.34	0.13	0.01	212.28	1260.57	50.10	172.98
lower-main split	3639	100-yr	6758.99	6758.69	0.30	0.03	0.00	3.50	1519.45		84.60
lower-main split	3622		Bridge								
lower-main split	3609	100-yr	6758.89	6758.53	0.37	0.61	0.02	0.23	1522.72		109.93
lower-main split	3379	100-yr	6758.26	6757.93	0.33	0.51	0.07	226.02	1296.93		532.82
lower-main split	3035	100-yr	6757.69	6757.58	0.10	0.08	0.03	635.63	919.72	68.60	654.34
lower-main split	2665	100-yr	6757.58	6757.56	0.02	0.01	0.00	708.76	715.68	199.50	516.82
lower-main split	2539	100-yr	6757.57	6757.54	0.02	0.00	0.00	45.90	1451.60	126.44	444.97
lower-main split	2528		Bridge								
lower-main split	2517	100-yr	6757.53	6757.48	0.05	0.11	0.04	0.91	1623.04		185.90
lower-main split	2294	100-yr	6757.38	6757.19	0.20	0.34	0.01	37.76	1316.57	269.62	172.29
lower-main split	2103	100-yr	6757.03	6756.73	0.30	0.18	0.01	72.77	899.18	652.00	150.05
lower-main split	1790	100-yr	6756.84	6756.58	0.26	0.25	0.03	240.18	1102.53	281.23	148.53
lower-main split	1789	100-yr	6756.56	6756.40	0.16	0.32	0.13	110.75	1494.69	18.51	160.36
lower-main split	1640.	100-yr	6756.11	6754.60	1.51	0.00	0.66	0.17	1609.21	14.57	62.65
lower	1578	100-yr	6755.46	6755.26	0.20			1.30	1982.70		385.01

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Appendix E

HY-8 Model Output – Existing Holiday Inn Culvert

HY-8 Culvert Analysis Report

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 100.00 cfs

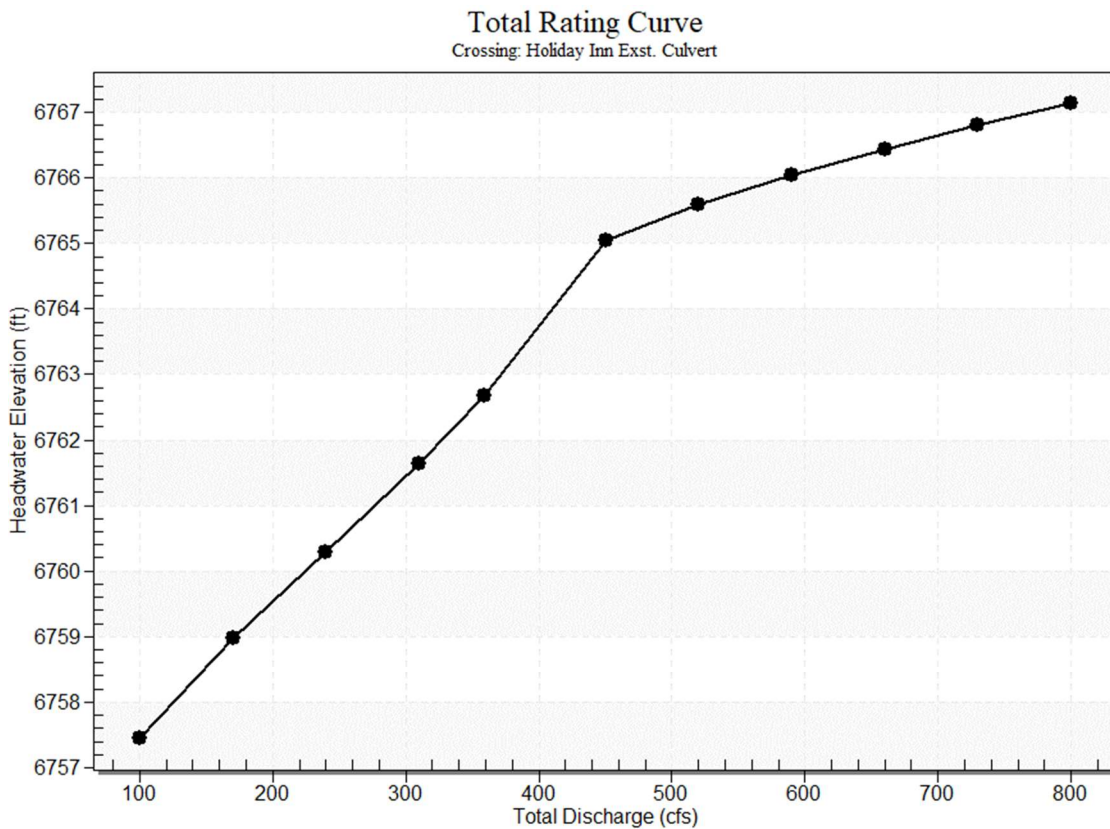
Design Flow: 359.00 cfs= HW/D= 1.48

Maximum Flow: 800.00 cfs

Table 1 - Summary of Culvert Flows at Crossing: Holiday Inn Exst. Culvert

Headwater Elevation (ft)	Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Roadway Discharge (cfs)	Iterations
6757.45	100.00	100.00	0.00	1
6758.97	170.00	170.00	0.00	1
6760.29	240.00	240.00	0.00	1
6761.64	310.00	310.00	0.00	1
6762.68	359.00	359.00	0.00	1
6765.04	450.00	433.90	15.97	8
6765.59	520.00	451.16	68.81	4
6766.04	590.00	464.43	125.53	4
6766.44	660.00	476.50	183.48	4
6766.80	730.00	486.93	243.04	3
6767.14	800.00	496.30	303.66	4
6764.61	421.05	421.05	0.00	Overtopping

Rating Curve Plot for Crossing: Holiday Inn Exst. Culvert



Culvert Data: Culvert 1

Table 2 - Culvert Summary Table: Culvert 1

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
100.00 cfs	100.00 cfs	6757.45	3.64	1.957	1-S2n	2.35	2.69	2.36	0.77	9.66	16.34
170.00 cfs	170.00 cfs	6758.97	5.16	3.473	1-S2n	3.18	3.55	3.20	1.03	11.08	19.18
240.00 cfs	240.00 cfs	6760.29	6.48	5.159	5-S2n	3.98	4.24	3.99	1.24	12.01	21.21
310.00 cfs	310.00 cfs	6761.64	7.75	7.829	7-M2c	4.95	4.81	4.81	1.42	12.77	22.82

359.0 0 cfs	359.0 0 cfs	6762.6 8	8.69	8.86 6	7- M2 c	6.00	5.12	5.1 2	1.53	13.9 7	23.78
450.0 0 cfs	433.9 0 cfs	6765.0 4	10.2 8	11.2 28	7- M2 c	6.00	5.48	5.4 8	1.72	16.0 3	25.32
520.0 0 cfs	451.1 6 cfs	6765.5 9	10.6 7	11.7 84	7- M2 c	6.00	5.54	5.5 4	1.86	16.5 5	26.35
590.0 0 cfs	464.4 3 cfs	6766.0 4	10.9 9	12.2 34	7- M2 c	6.00	5.58	5.5 8	1.98	16.9 5	27.27
660.0 0 cfs	476.5 0 cfs	6766.4 4	11.2 8	12.6 27	7- M2 c	6.00	5.61	5.6 1	2.09	17.3 3	28.11
730.0 0 cfs	486.9 3 cfs	6766.8 0	11.5 4	12.9 88	7- M2 c	6.00	5.64	5.6 4	2.20	17.6 5	28.89
800.0 0 cfs	496.3 0 cfs	6767.1 4	11.7 8	13.3 26	7- M2 c	6.00	5.66	5.6 6	2.30	17.9 5	29.60

Culvert Barrel Data

Culvert Barrel Type Straight Culvert

Inlet Elevation (invert): 6753.81 ft,

Outlet Elevation (invert): 6752.73 ft

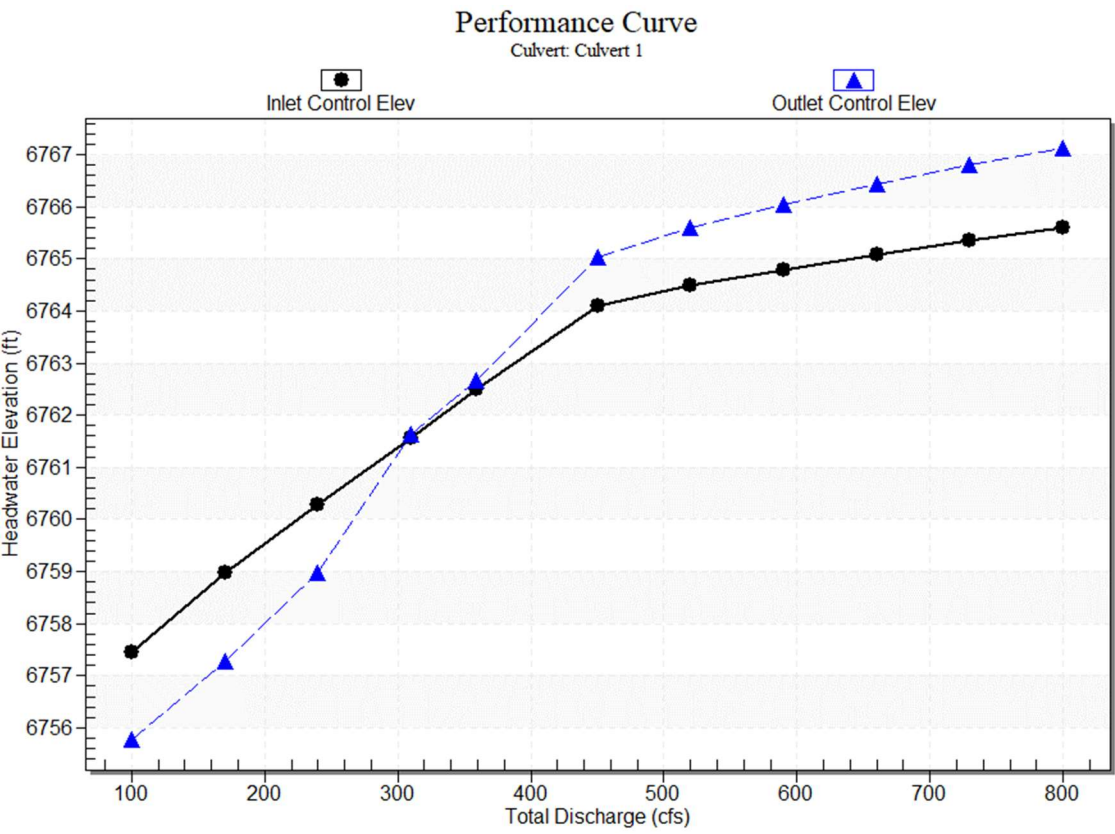
Culvert Length: 60.01 ft,

Culvert Slope: 0.0180

Inlet Throat Elevation: 6753.70 ft,

Inlet Crest Elevation: 0.00 ft

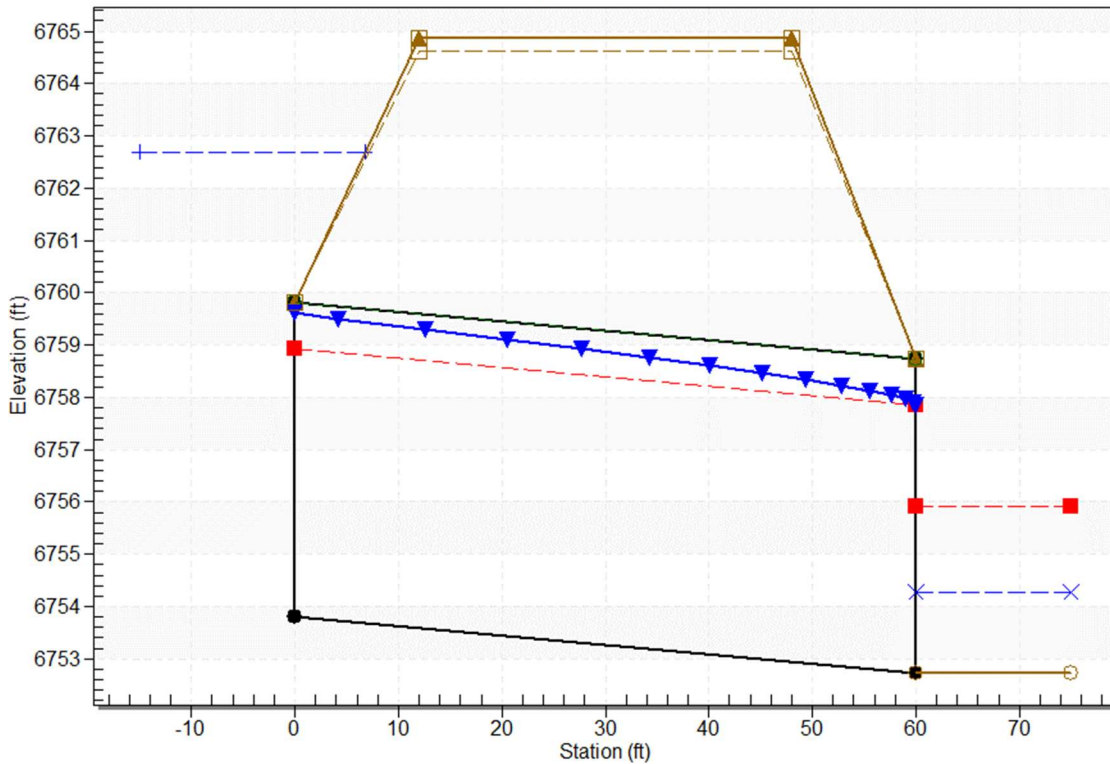
Culvert Performance Curve Plot: Culvert 1



Water Surface Profile Plot for Culvert: Culvert 1

Crossing - Holiday Inn Exst. Culvert, Design Discharge - 359.0 cfs

Culvert - Culvert 1, Culvert Discharge - 359.0 cfs



Site Data - Culvert 1

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 6753.81 ft

Outlet Station: 60.00 ft

Outlet Elevation: 6752.73 ft

Number of Barrels: 1

Culvert Data Summary - Culvert 1

Barrel Shape: Circular

Barrel Diameter: 6.00 ft

Barrel Material: Corrugated Steel

Embedment: 0.00 in

Barrel Manning's n: 0.0240

Culvert Type: Side-Tapered, Circular

Inlet Configuration: Beveled Edge Top and Side (45-90°) Wingwall (Ke=0.2)

Inlet Depression: None

Tailwater Data for Crossing: Holiday Inn Exst. Culvert

Table 3 - Downstream Channel Rating Curve (Crossing: Holiday Inn Exst. Culvert)

Flow (cfs)	Water Surface Elev (ft)	Velocity (ft/s)	Depth (ft)	Shear (psf)	Froude Number
100.00	6753.50	0.77	16.34	18.30	3.65
170.00	6753.76	1.03	19.18	24.49	3.79
240.00	6753.97	1.24	21.21	29.46	3.88
310.00	6754.15	1.42	22.82	33.71	3.95
359.00	6754.26	1.53	23.78	36.39	3.99
450.00	6754.45	1.72	25.32	40.87	4.05
520.00	6754.59	1.86	26.35	43.99	4.09
590.00	6754.71	1.98	27.27	46.88	4.12
660.00	6754.82	2.09	28.11	49.58	4.15
730.00	6754.93	2.20	28.89	52.13	4.17
800.00	6755.03	2.30	29.60	54.54	4.20

Tailwater Channel Data - Holiday Inn Exst. Culvert

Tailwater Channel Option: Trapezoidal Channel

Bottom Width: 6.00 ft

Side Slope (H:V): 2.50 (:1)

Channel Slope: 0.3800

Channel Manning's n: 0.0400

Channel Invert Elevation: 6752.73 ft

Roadway Data for Crossing: Holiday Inn Exst. Culvert

Roadway Profile Shape: Irregular Roadway Shape (coordinates)

Irregular Roadway Cross-Section

Coord No.	Station (ft)	Elevation (ft)
0	0.00	6764.86
1	10.82	6764.65
2	26.01	6764.61

Roadway Surface: Paved

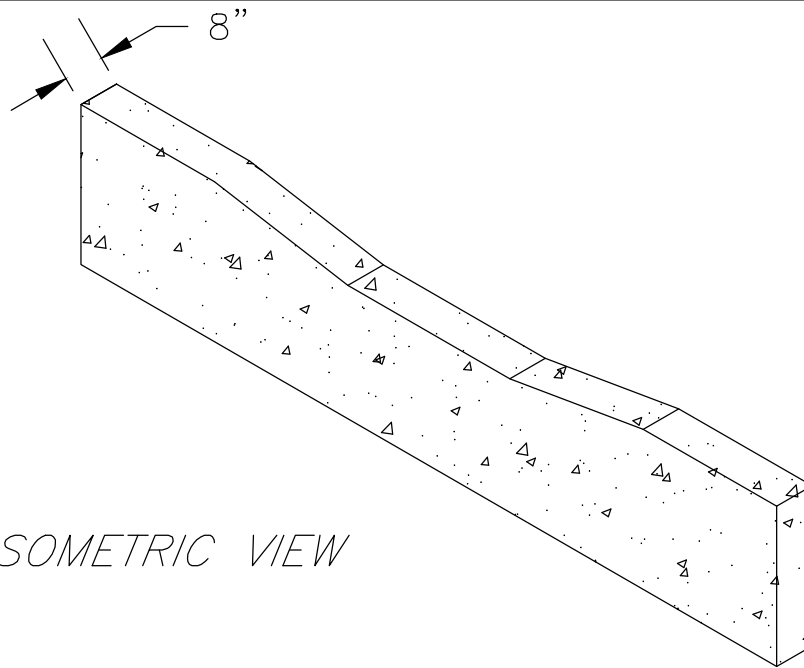
Roadway Top Width: 36.00 ft

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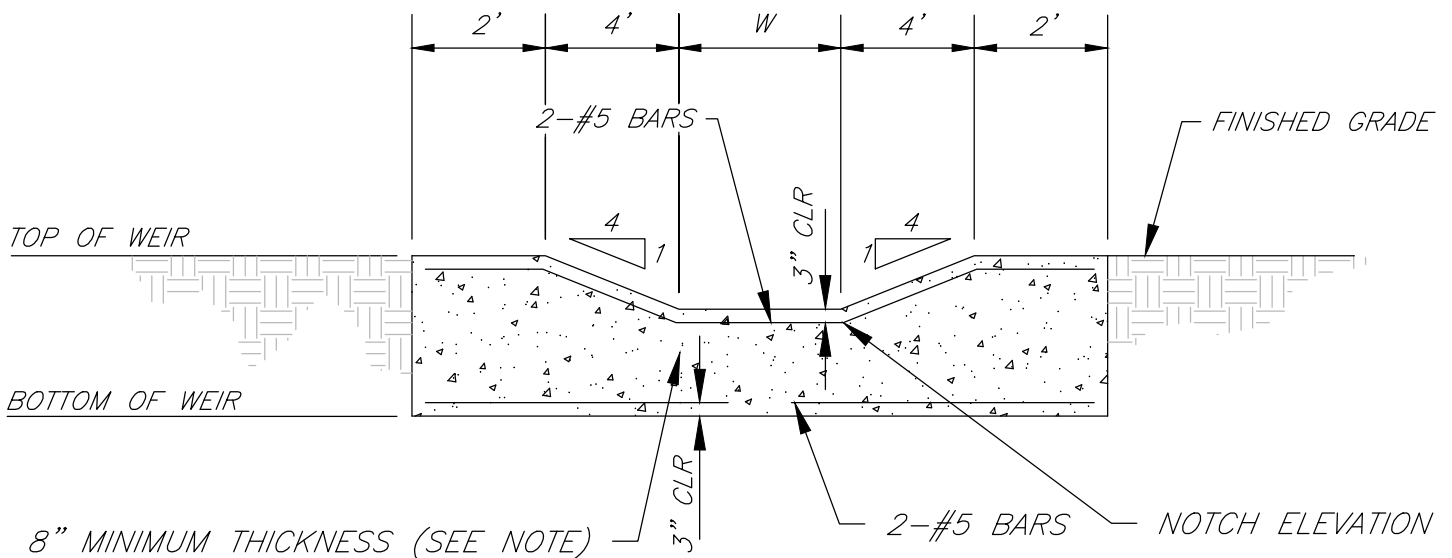


Appendix F

Reference Documents



ISOMETRIC VIEW



NOTE:

1. TRENCH FOR WEIR OUTLET STRUCTURE USING NATIVE GROUND AS FORM WORK. CONSTRUCT WEIR 8" MINIMUM THICKNESS. UPON COMPLETION OF TRENCHING, PLACE TEMPERED STEEL AND CONCRETE IMMEDIATELY. FORM TOP 4".
2. ELEVATIONS BASED ON NAVD88 DATUM.

WEIR SCHEDULE				
LOCATION	W (FT)	NOTCH ELEV.	TOP OF WEIR	BOTTOM OF WEIR
HOMEWOOD SUITES	83.5	6767.12	6768.12	6765.12

POND OVERFLOW WEIR

NOT TO SCALE

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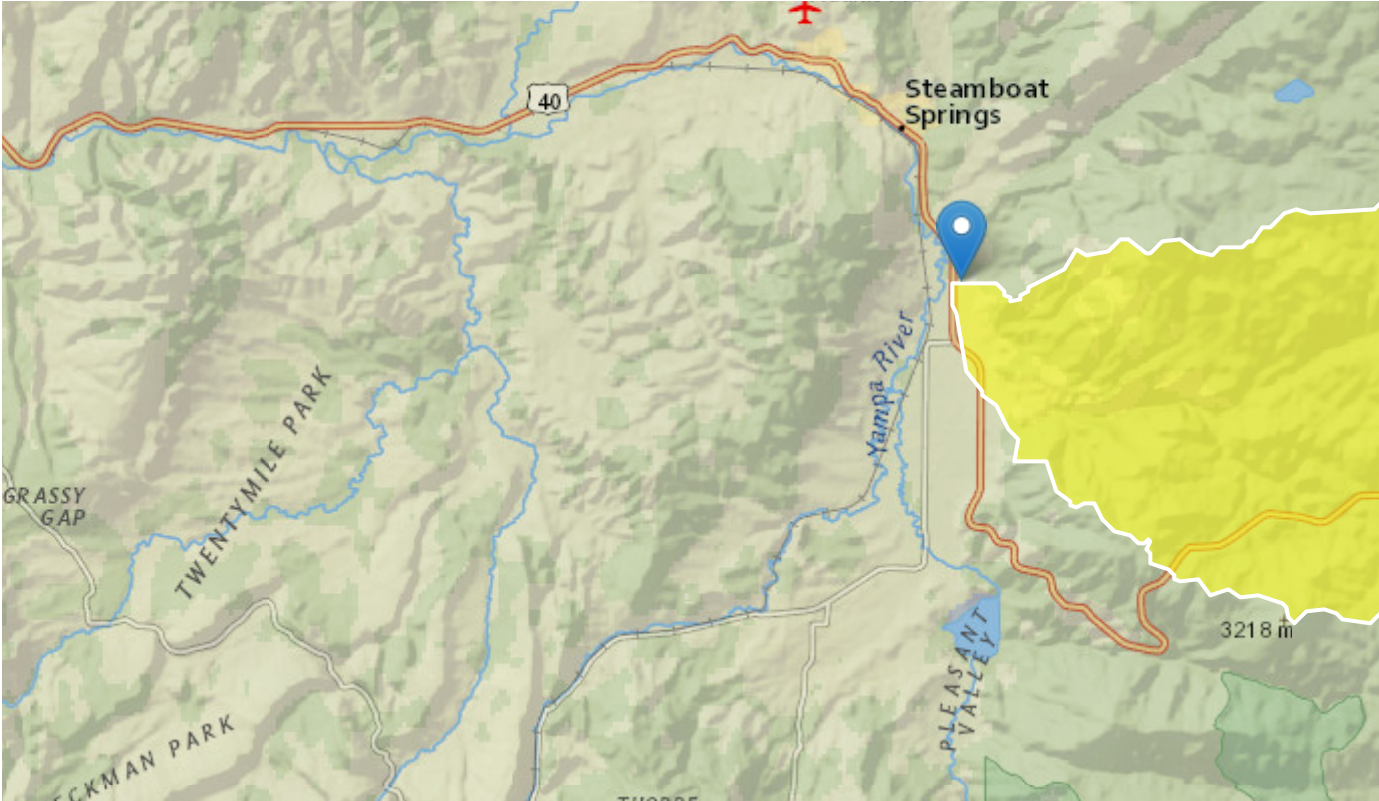


Appendix G

Stream Stats Output

StreamStats Report - Walton Creek at Stone Lane

Region ID: CO
Workspace ID: C020220919115230469000
Clicked Point (Latitude, Longitude): 40.44463, -106.81329
Time: 2022-09-19 05:52:50 -0600



+ Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLDEM10M	Mean basin slope computed from 10 m DEM	20	percent
CSL1085LFP	Change in elevation divided by length between points 10 and 85 percent of distance along the longest flow path to the basin divide, LFP from 2D grid	213.7	feet per mile
DRNAREA	Area that drains to a point on a stream	49	square miles
EL7500	Percent of area above 7500 ft	90	percent
ELEV	Mean Basin Elevation	9249	feet

Parameter Code	Parameter Description	Value	Unit
ELEVMAX	Maximum basin elevation	10600	feet
I24H100Y	Maximum 24-hour precipitation that occurs on average once in 100 years	4.06	inch
I24H2Y	Maximum 24-hour precipitation that occurs on average once in 2 years - Equivalent to precipitation intensity index	1.87	inch
I6H100Y	6-hour precipitation that is expected to occur on average once in 100 years	2.7	inch
I6H2Y	Maximum 6-hour precipitation that occurs on average once in 2 years	1.13	inch
LAT_OUT	Latitude of Basin Outlet	40.444608	deg
LC11BARE	Percentage of barren from NLCD 2011 class 31	0	percent
LC11CRPHAY	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2011	0.9	percent
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	2.4	percent
LC11FOREST	Percentage of forest from NLCD 2011 classes 41-43	70.9	percent
LC11GRASS	Percent of area covered by grassland/herbaceous using 2011 NLCD	15.3	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	3	percent
LC11SHRUB	Percent of area covered by shrubland using 2011 NLCD	1.5	percent
LC11SNOIC	Percent snow and ice from NLCD 2011 class 12	0	percent
LC11WATER	Percent of open water, class 11, from NLCD 2011	0.1	percent
LC11WETLND	Percentage of wetlands, classes 90 and 95, from NLCD 2011	7.4	percent
LFLENGTH	Length of longest flow path	16.5	miles
LONG_OUT	Longitude of Basin Outlet	-106.813261	deg
MINBELEV	Minimum basin elevation	6760	feet
OUTLETELEV	Elevation of the stream outlet in feet above NAVD88	6764	feet
PRECIP	Mean Annual Precipitation	44.47	inch
RCN	Runoff-curve number as defined by NRCS (http://policy.nrcs.usda.gov/OpenNonWebContent.aspx?content=17758.wba)	74.15	dimensionless

Parameter Code	Parameter Description	Value	Unit
RUNCO_CO	Soil runoff coefficient as defined by Verdin and Gross (2017)	0.44	dim
SSURGOA	Percentage of area of Hydrologic Soil Type A from SSURGO	0	per
SSURGOB	Percentage of area of Hydrologic Soil Type B from SSURGO	1.06	per
SSURGOC	Percentage of area of Hydrologic Soil Type C from SSURGO	2.53	per
SSURGOD	Percentage of area of Hydrologic Soil Type D from SSURGO	0.95	per
STATSCLAY	Percentage of clay soils from STATSGO	15.16	per
STORNHD	Percent storage (wetlands and waterbodies) determined from 1:24K NHD	0.2	per
TOC	Time of concentration in hours	5.03	hou

➤ Flow-Duration Statistics

Flow-Duration Statistics Parameters [90.8 Percent (44.5 square miles) Mountain Region Flow Duration]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	49	square miles	1	1060
PRECIP	Mean Annual Precipitation	44.47	inches	18	47

Flow-Duration Statistics Parameters [9.2 Percent (4.51 square miles) Northwest Region Flow Duration]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	49	square miles	1	5250

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
PRECIP	Mean Annual Precipitation	44.47	inches	8	49

Flow-Duration Statistics Flow Report [90.8 Percent (44.5 square miles) Mountain Region Flow Duration]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	ASEp
10 Percent Duration	333	ft ³ /s	45
25 Percent Duration	84.5	ft ³ /s	55
50 Percent Duration	26.4	ft ³ /s	55
75 Percent Duration	14.6	ft ³ /s	64
90 Percent Duration	10.5	ft ³ /s	85

Flow-Duration Statistics Flow Report [9.2 Percent (4.51 square miles) Northwest Region Flow Duration]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	ASEp
10 Percent Duration	481	ft ³ /s	73
25 Percent Duration	111	ft ³ /s	77
50 Percent Duration	45.1	ft ³ /s	83
75 Percent Duration	28.7	ft ³ /s	100
90 Percent Duration	24.1	ft ³ /s	154

Flow-Duration Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
10 Percent Duration	347	ft ³ /s
25 Percent Duration	86.9	ft ³ /s
50 Percent Duration	28.1	ft ³ /s
75 Percent Duration	15.9	ft ³ /s
90 Percent Duration	11.8	ft ³ /s

**Capesius, J.P., and Stephens, V. C.,2009, Regional Regression Equations for Estimation of Natural Streamflow Statistics in Colorado: U. S. Geological Survey Scientific Investigations Report 2009-5136, 32 p.
(<http://pubs.usgs.gov/sir/2009/5136/http://pubs.usgs.gov/sir/2009/5136/>)**

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Application Version: 4.10.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

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Appendix H

HEC-RAS Work Maps

