

1/21/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

19.100	.000	.024	.040	12.19	5954.49	.00	5954.52
.000541	119	119	119	5954.57	.08	1.99	.00
4.84	0	66	1033	.00	5952.00	5952.00	2
2470	0	187	2282	261.0	1489.00	1750.00	0
.03	.00	2.80	2.21	.000	2.0	5942.30	8

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 20.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)							1500.00
Right Encroachment Station (ft, STENCR)							1651.00
Encroachment Method (TYPE)							1
Width or Percent Target							151.000
20.000	.040	.040	.000	5.19	5957.09	5957.09	5957.40
.014583	861	861	861	5958.24	1.15	1.31	.53
18.71	42	260	0	.00	5956.20	100000.00	0
2470	164	2305	0	145.7	1500.00	1645.71	12
.06	3.89	8.84	.00	.000	6.0	5951.90	0

STATUS: Analyzing cross-section reach 21.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)		1400.00
Right Encroachment Station (ft, STENCR)		1555.00
Encroachment Method (TYPE)		1
Width or Percent Target		155.000

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
21.000	.000	.040	.000	3.28	5968.58	5968.32	5967.49
.012696	810	810	810	5969.36	.78	11.01	.11
24.78	0	349	0	.00	100000.00	100000.00	4
2470	0	2469	0	155.0	1400.00	1555.00	11
.09	.00	7.07	.00	.000	8.8	5965.30	0

STATUS: Analyzing cross-section reach 22.000.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1228.00						
Right Encroachment Station (ft, STENCR)	1400.00						
Encroachment Method (TYPE)	1						
Width or Percent Target	172.000						
22.000	.040	.040	.000	2.70	5979.60	5979.60	5979.36
.019096	710	710	710	5980.52	.92	10.94	.07
30.23	20	300	0	.00	5977.50	100000.00	0
2470	144	2325	0	172.0	1228.00	1400.00	12
.12	7.07	7.75	.00	.000	11.5	5976.90	0

STATUS: Analyzing cross-section reach 23.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1216.00
Right Encroachment Station (ft, STENCR)	1500.00
Encroachment Method (TYPE)	1
Width or Percent Target	284.000

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
23.000	.000	.040	.000	2.05	5989.25	5988.76	5988.34
.005884	770	770	770	5989.45	.20	8.71	.22
36.67	0	407	0	.00	100000.00	100000.00	6
1470	0	1469	0	284.0	1216.00	1500.00	11
.18	.00	3.61	.00	.000	15.5	5987.20	0

STATUS: Analyzing cross-section reach 24.000.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	.00
Right Encroachment Station (ft, STENCR)	1548.00
Encroachment Method (TYPE)	1
Width or Percent Target	1547.999
24.000	.000
.015578	920
45.03	0
1470	0
.24	.00
	.00
	3.82
	.000
	27.1
	5998.00
	0

STATUS: Analyzing cross-section reach 25.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1143.00
Right Encroachment Station (ft, STENCR)	1350.00
Encroachment Method (TYPE)	1
Width or Percent Target	207.000

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

25.000	.000	.040	.000	2.02	6007.32	6006.95	6006.74
.009032	650	650	650	6007.65	.34	7.57	.05
50.26	0	316	0	.00	100000.00	100000.00	5
1470	0	1469	0	207.0	1143.00	1350.00	8
.28	.00	4.65	.00	.000	34.7	6005.30	0

STATUS: Analyzing cross-section reach 26.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)						1192.00	
Right Encroachment Station (ft, STENCR)						1400.00	
Encroachment Method (TYPE)						1	
Width or Percent Target						208.000	
26.000	.000	.040	.000	2.16	6016.76	6016.58	6016.02
.014971	830	830	830	6017.21	.45	9.50	.06
55.87	0	272	0	.00	100000.00	100000.00	4
1470	0	1469	0	208.0	1192.00	1400.00	5
.32	.00	5.40	.00	.000	38.6	6014.60	0

STATUS: Analyzing cross-section reach 27.000.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)						1193.00	
Right Encroachment Station (ft, STENCR)						1450.00	
Encroachment Method (TYPE)						1	
Width or Percent Target						257.000	
27.000	.000	.040	.000	1.61	6025.71	6025.49	6025.13
.012305	650	650	650	6026.05	.34	8.80	.03
60.24	0	313	0	.00	100000.00	100000.00	5
1470	0	1469	0	257.0	1193.00	1450.00	11
.36	.00	4.68	.00	.000	42.1	6024.10	0

SPECIAL NOTE :

 An asterisk (*) to the left of the cross-section number indicates a special note is present in the SUMMARY OF WARNING AND STATUS MESSAGES section.

SUMMARY PRINTOUT TABLE 150 : PETERSON CREEK - BELOW PETERSON FIELD
 ----- PETERSON DRAINAGE CALIBRATION: FISFW.DAT
 COLO SPGS FLOOD INSURANCE

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG		VCH	AREA	
* 18.000	.00	.00	.00	5935.00	2520.00	5941.72	5941.72	5943.72	109.45	11.51	227.52	240.88
* 18.000	.00	.00	.00	5935.00	2520.00	5941.76	5941.76	5943.94	126.25	11.84	212.80	224.28
* 19.000	370.00	.00	.00	5942.30	2470.00	5951.17	5951.17	5951.73	96.03	10.52	524.89	252.05
* 19.000	370.00	.00	.00	5942.30	2470.00	5951.93	5951.93	5952.58	84.23	10.00	432.97	269.12
* 19.100	119.00	5952.00	5949.80	5942.30	2470.00	5954.52	.00	5954.53	.80	1.15	3152.43	2769.12
* 19.100	119.00	5952.00	5949.80	5942.30	2470.00	5954.49	.00	5954.57	5.41	2.80	1100.84	1061.55
* 20.000	861.00	.00	.00	5951.90	2470.00	5957.40	5957.40	5957.92	71.15	6.48	524.04	292.83
* 20.000	861.00	.00	.00	5951.90	2470.00	5957.09	5957.09	5958.24	145.83	8.84	303.12	204.54
* 21.000	810.00	.00	.00	5965.30	2470.00	5967.49	5967.49	5967.90	166.76	5.51	479.90	191.27
* 21.000	810.00	.00	.00	5965.30	2470.00	5968.58	5968.32	5969.36	126.96	7.07	349.14	219.21
* 22.000	710.00	.00	.00	5976.90	2470.00	5979.36	5979.36	5979.72	116.34	5.53	594.40	229.00
* 22.000	710.00	.00	.00	5976.90	2470.00	5979.60	5979.60	5980.52	190.96	7.75	320.47	178.74
* 23.000	770.00	.00	.00	5987.20	1470.00	5988.34	5988.19	5988.48	107.70	2.71	490.60	141.65
* 23.000	770.00	.00	.00	5987.20	1470.00	5989.25	5988.76	5989.45	58.84	3.61	407.17	191.63
* 24.000	920.00	.00	.00	5998.00	1470.00	5999.82	5999.81	6000.03	147.18	.00	394.30	121.17
* 24.000	920.00	.00	.00	5998.00	1470.00	5999.80	5999.80	6000.03	155.78	.00	384.77	117.78
* 25.000	650.00	.00	.00	6005.30	1470.00	6006.74	6006.41	6006.93	79.81	3.48	423.93	164.54
* 25.000	650.00	.00	.00	6005.30	1470.00	6007.32	6006.95	6007.65	90.32	4.65	316.25	154.67
* 26.000	830.00	.00	.00	6014.60	1470.00	6016.02	6015.97	6016.31	170.05	3.37	357.54	112.73
* 26.000	830.00	.00	.00	6014.60	1470.00	6016.76	6016.58	6017.21	149.71	5.40	272.19	120.14
* 27.000	650.00	.00	.00	6024.10	1470.00	6025.13	6024.95	6025.29	113.61	3.34	451.80	137.91

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG		VCH	AREA	
27.000	650.00	.00	.00	6024.10	1470.00	6025.71	6025.49	6026.05	123.05	4.68	313.87	132.52

SUMMARY PRINTOUT TABLE 150 : PETERSON CREEK - BELOW PETERSON FIELD
 PETERSON DRAINAGE CALIBRATION: FISFW.DAT
 COLO SPGS FLOOD INSURANCE

Cross- Section Number	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	W.S. Elev Diff per Profile (ft)	W.S. Elev Diff per Section (ft)	W.S. Elev Diff per Know/Comp (ft)	Water Surface Top Width (ft)	Channel Reach Length (ft)
SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 18.000	2520.00	5941.72	.00	.00	-.04	58.86	.00
* 18.000	2520.00	5941.76	.04	.00	.04	49.50	.00
* 19.000	2470.00	5951.17	.00	9.46	.00	468.22	370.00
* 19.000	2470.00	5951.93	.76	10.17	.76	255.83	370.00
* 19.100	2470.00	5954.52	.00	3.35	.00	1021.62	119.00
* 19.100	2470.00	5954.49	-.03	2.56	-.03	261.00	119.00
* 20.000	2470.00	5957.40	.00	2.88	.00	518.68	861.00
* 20.000	2470.00	5957.09	-.31	2.60	-.31	145.71	861.00
* 21.000	2470.00	5967.49	.00	10.08	.00	457.30	810.00
21.000	2470.00	5968.58	1.10	11.49	1.10	155.00	810.00
* 22.000	2470.00	5979.36	.00	11.88	.00	841.46	710.00
* 22.000	2470.00	5979.60	.23	11.01	.23	172.00	710.00
* 23.000	1470.00	5988.34	.00	8.98	.00	801.26	770.00
23.000	1470.00	5989.25	.91	9.65	.91	284.00	770.00
24.000	1470.00	5999.82	.00	11.48	.00	813.98	920.00
* 24.000	1470.00	5999.80	-.01	10.56	-.01	811.67	920.00
25.000	1470.00	6006.74	.00	6.92	.00	413.93	650.00
25.000	1470.00	6007.32	.58	7.51	.58	207.00	650.00
* 26.000	1470.00	6016.02	.00	9.28	.00	510.82	830.00

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Cross- Section Number	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Profile (ft) DIFWSP	W.S. Elev Diff per Section (ft) DIFWSX	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Water Surface Top Width (ft) TOPWID	Channel Reach Length (ft) XLCH
26.000	1470.00	6016.76	.74	9.44	.74	208.00	830.00
27.000	1470.00	6025.13	.00	9.11	.00	628.59	650.00
27.000	1470.00	6025.71	.58	8.95	.58	257.00	650.00

SUMMARY OF WARNING AND STATUS MESSAGES :

Section 18, profile 1, critical depth assumed.
 Section 18, profile 2, critical depth assumed.
 Section 19, profile 1, critical depth assumed.
 Section 19, profile 1, minimum specific energy.
 Section 19, profile 2, critical depth assumed.
 Section 19, profile 2, minimum specific energy.
 Section 19.1, profile 1, conveyance change outside acceptable range.
 Section 19.1, profile 2, conveyance change outside acceptable range.
 Section 20, profile 1, critical depth assumed.
 Section 20, profile 1, minimum specific energy.
 Section 20, profile 2, critical depth assumed.
 Section 20, profile 2, minimum specific energy.
 Section 21, profile 1, critical depth assumed.
 Section 21, profile 1, minimum specific energy.
 Section 22, profile 1, critical depth assumed.
 Section 22, profile 1, minimum specific energy.
 Section 22, profile 2, critical depth assumed.
 Section 22, profile 2, minimum specific energy.

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Section 23, profile 1, conveyance change outside acceptable range.

Section 24, profile 2, critical depth assumed.

Section 24, profile 2, minimum specific energy.

Section 26, profile 1, conveyance change outside acceptable range.

22 Warning and status message(s) generated

SUMMARY PRINTOUT TABLE 200 : PETERSON CREEK - BELOW PETERSON FIELD
 ----- PETERSON DRAINAGE CALIBRATION: FISFW.DAT
 COLO SPGS FLOOD INSURANCE

Profile Number 2

Cross- Section Number	Floodway Width (ft)	Floodway Section Area (sq ft)	Floodway Mean Velocity (ft/s)	W. S. Elevation with Floodway (ft MSL)	W. S. Elevation without Floodway (ft MSL)	W. S. Elevation Difference (ft)
18.000	50.	213.	11.8	5941.7	5941.7	.0
19.000	261.	433.	5.7	5952.0	5951.2	.8
19.100	261.	1101.	2.2	5954.5	5954.5	.0
20.000	146.	303.	8.1	5957.1	5957.4	-.3
21.000	155.	349.	7.1	5968.6	5967.5	1.1
22.000	172.	320.	7.7	5979.6	5979.4	.2
23.000	284.	407.	3.6	5989.2	5988.3	.9
24.000	812.	385.	3.8	5999.8	5999.8	.0
25.000	207.	316.	4.6	6007.3	6006.7	.6
26.000	208.	272.	5.4	6016.7	6016.0	.7
27.000	257.	314.	4.7	6025.7	6025.1	.6

END OF OUTPUT

CORRECTED EFFECTIVE MODEL

1/21/1999

=====
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=====

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BOSS RMS for AutoCAD HEC-2 Analysis is an enhanced version of the U.S.
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PROJECT DESCRIPTION :

PROJECT TITLE : PETERSON CREEK - BELOW PETERSON FIELD
PROJECT NUMBER : COLO SPGS FLOOD INSURANCE
DESCRIPTION : PETERSON DRAINAGE CORRECTED EFF. :CORRFW
ENGINEER :
DATE OF RUN : 1/21/1999
TIME OF RUN : 11:53 am

JOB PARAMETERS :

USER-DEFINED SUMMARY TABLES (J3) :

	150		200							
NC	0.04	0.04	0.035	0.3	0.5					
ET			7.1				1273	1323		
X1	18	24	1273	1323						
X3	0							5938	5941.9	
GR	5951.4	1000	5949.2	1037	5947.1	1084	5945.4	1122	5944.2	1156
GR	5943	1215	5942.1	1253	5941.7	1264	5938	1273	5936.4	1289
GR	5935	1294	5935.5	1300	5941.9	1323	5943.3	1378	5944.1	1450
GR	5944.5	1525	5944.9	1583	5945.1	1638	5945.5	1670	5945	1673
GR	5945.8	1679	5947.2	1718	5947.9	1748	5947.8	1750		
NC	0.04	0.04	0.024	0.3	0.5					
QT	2	2470	2470							
ET			7.1				1488	1718		
X1	19	19	1489	1495	370	370	370			
X3	0							5952	5952	
GR	5957.8	1000	5956.4	1116	5954.6	1284	5953	1383	5952	1489
GR	5945.4	1489	5943.5	1490	5942.7	1491	5942.3	1492	5942.7	1493
GR	5943.5	1494	5945.4	1495	5952	1495	5950.9	1580	5949.9	1655
GR	5949.4	1700	5950	1880	5952	2120	5954	2310		
ET			7.1				1489	1750		
SB	1.05	1.25	2.6	0	6	0	31	0	5943.5	5942.3
X1	19.1	19	1489	1495	119	119	119			
X2			1	5949.8	5952					
X3	0							5952	5952	
BT	-11	1383	5952	5953	1489	5952	5952	1489	5952	5945.4
BT		1490	5952	5947.6	1491	5952	5948.3	1492	5952	5948.6
BT		1493	5952	5948	1494	5952	5947.6	1495	5952	5945.4

BT		1495	5952	5952	1580	5952	5950.9			
GR	5957.8	1000	5956.4	1116	5954.6	1284	5953	1383	5952	1489
GR	5945.4	1489	5943.5	1490	5942.7	1491	5942.3	1492	5942.7	1493
GR	5943.5	1494	5945.4	1495	5952	1495	5950.9	1580	5949.9	1655
GR	5949.4	1700	5950	1880	5952	2120	5954	2310		
NC	0.04	0.04	0.04	0.3	0.5					
ET			7.1				1590	1647		
X1	20	30	1552	1651	861	861	861			
X3	0							5956.2	5957.6	
GR	5960.7	1000	5960.3	1031	5958.5	1057	5958.2	1085	5957.3	1136
GR	5956.9	1183	5957.1	1228	5957.2	1271	5957.3	1326	5956.7	1368
GR	5956.5	1416	5956.7	1468	5956.3	1514	5956.2	1552	5953.5	1587
GR	5952	1596	5951.9	1607	5955.3	1627	5957.6	1651	5958.6	1673
GR	5958.1	1681	5958.3	1736	5958.9	1794	5959.8	1874	5959.5	1888
GR	5959.8	1900	5959.3	1917	5960.5	1937	5960.7	1948	5960.7	1950
ET			7.1				1325	1555		
X1	21	25	1394	1555	810	810	810			
X3	0							5965.9	5967.6	
GR	5970.3	1000	5969.4	1032	5968.2	1064	5967.2	1101	5966.8	1133
GR	5966.8	1157	5966.7	1165	5966.5	1207	5966.4	1243	5966.4	1275
GR	5966.6	1299	5966.1	1321	5966.4	1364	5965.9	1394	5965.5	1406
GR	5965.9	1416	5965.6	1439	5965.3	1453	5966.5	1485	5967.6	1555
GR	5968.1	1632	5969	1712	5969.5	1778	5969.8	1890	5970.8	2000
ET			7.1				1228	1400		
X1	22	29	1239	1401	710	710	710			
X3	0							5977.5	5979	
GR	5980.6	1000	5980.1	1059	5979.9	1108	5978.6	1157	5978.1	1183
GR	5978.2	1223	5977.5	1239	5976.9	1282	5978.1	1304	5977.3	1317
GR	5977.1	1349	5979	1369	5979	1401	5978.1	1443	5978.7	1478
GR	5978.7	1556	5979.1	1602	5979.2	1674	5979.4	1730	5979.1	1791
GR	5979	1830	5978.8	1888	5978.7	1933	5978.9	1964	5979.8	2010
GR	5979.9	2058	5979.9	2133	5981.1	2198	5980.5	2250		
QT	2	1470	1470							
ET			7.1				1216	1500		
X1	23	25	1094	1508	770	770	770			
X3	0							5990.5	5988.7	
GR	5990.4	1000	5991.2	1051	5990.5	1094	5989.8	1146	5988.6	1196
GR	5988	1243	5987.6	1282	5987.2	1345	5987.8	1392	5988	1443
GR	5988.7	1508	5988.4	1556	5987.9	1615	5988	1664	5987.8	1710
GR	5987.7	1760	5987.6	1810	5987.2	1822	5987.4	1942	5987.8	2004
GR	5987.9	2072	5988.6	2104	5987.8	2111	5988.8	2128	5989.9	2200
ET			7.1				1250	1395		
X1	24	25	1195	1465	920	920	920			
X3	0							6001	5999.6	
GR	6000.1	1000	5999.9	1069	6000.4	1100	6000.4	1134	6000.8	1169
GR	6001	1195	6000.5	1226	5999.7	1264	5998.5	1298	5998.5	1332
GR	5998	1381	5999.1	1419	5999.6	1465	5999.6	1505	5999.5	1548

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GR	5998.8	1587	5998.6	1635	5998.2	1678	5998.4	1743	5998	1790
GR	5998.2	1841	5998.4	1896	5998.5	1953	5999.3	2025	6000	2100
ET			7.1				1125	1370		
X1	25	23	1069	1671	650	650	650			
X3	0							6008.5	6008.6	
GR	6008.9	1000	6009.7	1023	6009.9	1039	6008.5	1069	6007	1132
GR	6006.1	1178	6005.6	1228	6005.6	1288	6005.5	1336	6005.4	1394
GR	6005.3	1433	6005.6	1492	6006.5	1548	6007.8	1611	6008.6	1671
GR	6008.7	1735	6009.5	1808	6010.3	1883	6010	1932	6009.2	1983
GR	6009.8	2054	6010.2	2090	6010.4	2100				
ET			7.1				1260	1390		
X1	26	35	1087	1521	830	830	830			
X3	0							6017.8	6014.9	
GR	6020.3	1000	6019.6	1024	6018.9	1055	6017.8	1087	6016.9	1119
GR	6016.8	1149	6016	1185	6015.9	1213	6016	1245	6015.8	1283
GR	6015.3	1303	6014.6	1341	6015	1370	6015.3	1396	6015.9	1428
GR	6015.4	1456	6015.2	1489	6014.9	1521	6014.7	1558	6014.9	1606
GR	6015.1	1629	6015.4	1660	6016.2	1705	6016.6	1736	6016.5	1778
GR	6016.7	1822	6017	1866	6017.7	1916	6017.9	1946	6017.9	1991
GR	6018	2033	6018.1	2059	6018.2	2079	6018.3	2090	6018.4	2100
ET			7.1				1185	1460		
X1	27	21	1135	1638	650	650	650			
X3	0							6026	6024.3	
GR	6028.5	1000	6027.5	1049	6026.4	1092	6026	1135	6025.3	1180
GR	6024.9	1217	6024.5	1280	6024.4	1336	6024.2	1415	6024.2	1509
GR	6024.1	1578	6024.3	1638	6024.4	1715	6024.6	1772	6025.2	1832
GR	6025.5	1881	6025.7	1923	6026.2	1970	6026.2	2011	6027.3	2054
GR	6027.9	2100								

STATUS: Analyzing profile 1.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Allowable error for critical depth determination (ALLDC) is 10.000 percent of the depth.

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 18.000.

WARNING: (3720) Critical depth has been assumed.

Cross Section Number SECNO	Left Overbank Manning XNL	Channel Manning n XNCH	Right Overbank Manning XNR	Flow Depth DEPTH (ft)	Water Surface Elevation CWSEL (ft MSL)	Critical W. S. Elevation CRIWS (ft MSL)	Known W. S. Elevation WSELK (ft MSL)
Energy Gradient	Left Overbank Length	Channel Length	Right Overbank Length	Energy Gradient Elevation EG (ft MSL)	Weighted Velocity Head HV (ft)	Friction Energy Loss HL (ft)	Other Energy Loss OLOSS (ft)
SLOPE (ft/ft)	XLOBL (ft)	XLCH (ft)	XLOBR (ft)				
Cummul- ative Volume VOL (acre-ft)	Left Overbank Area ALOB (sq ft)	Channel Area ACH (sq ft)	Right Overbank Area AROB (sq ft)	Bridge Deck Area CORAR (sq ft)	Left Bank Elevation LTBNK (ft MSL)	Right Bank Elevation RTBNK (ft MSL)	Number of Balance Trials ITRIAL
Total Flow Q (cfs)	Left Overbank Flow QLOB (cfs)	Channel Flow QCH (cfs)	Right Overbank Flow QROB (cfs)	Computed W. S. Top Width TOPWD (ft)	Left W. S. Station SSTA (ft)	Right W. S. Station ENDST (ft)	Number of Crit Dpth Trials IDC
Flow Travel Time TIME (hrs)	Left Overbank Velocity VLOB (ft/s)	Channel Mean Velocity VCH (ft/s)	Right Overbank Velocity VROB (ft/s)	Length Weighted Manning n WTN	Cummul. Surface Area TWA (acres)	Minimum C. S. Elevation ELMIN (ft MSL)	Number of Other Trials ICONTR
18.000	.040	.035	.000	6.77	5941.77	5941.77	5941.00
.010581	0	0	0	5943.72	1.95	.00	.00
.00	17	213	0	.00	5938.00	5941.90	0
2520	96	2423	0	60.3	1262.20	1322.52	7
.00	5.58	11.38	.00	.000	.0	5935.00	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 19.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
19.000	.000	.024	.040	9.08	5951.38	5951.38	.00
.006255	.370	.370	.370	5951.73	.35	2.97	.48
3.62	0	48	574	.00	5952.00	5952.00	0
2470	0	410	2059	507.8	1489.00	2045.06	12
.02	.00	8.53	3.58	.000	2.4	5942.30	0

STATUS: Special bridge analysis being performed.

BRIDGE DESCRIPTION :

Bridge Total Loss Coefficient (XKOR)	1.25
Bridge Opening Total Area (sq ft, BAREA)	31.00
Bridge Opening Bottom Width (ft, BWC)	6.00
Bridge Opening Side Slope (SS)	1 : .00
Bridge Opening Upstream Invert (ft MSL, ELCHU)	5943.50
Bridge Opening Downstream Invert (ft MSL, ELCHD)	5942.30
Bridge Skew Factor (BSQ)	1.00
Roadway Length (ft, RDLEN)	.00
Roadway Weir Flow Discharge Coefficient (COFQ)	2.60
Pier Width (ft, BWP)	.00
Pier Loss Drag Coefficient (CMOM)	2.00
Pier Shape Coefficient (XK)	1.05

STATUS: Analyzing cross-section reach 19.100.

WARNING: (1860) Bridge low chord elevation exceeds corresponding
top of roadway elevation.

Bridge Low Chord Elevation (ft MSL, XLCEL)	5953.00
Top of Roadway Elevation (ft MSL, RDEL)	5952.00

STATUS: (3280) For cross-section 19.10, ends have been extended
vertically .54 feet in order to calculate the hydraulic
cross-section properties.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	8.92
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STATUS: Pressure and weir flow. Weir submergence based on TRAPEZOIDAL
shape.

BRIDGE ANALYSIS RESULTS :

Pressure Flow Energy Grade Line Elevation (ft MSL, EGPRS)	6074.60
Low Flow Energy Grade Line Elevation (ft MSL, EGLWC)	5952.93
Low Flow Water Surface Drop Through Bridge (ft, H3)	.00
Total Weir Flow (cfs, QWEIR)	2078.
Total Pressure or Low Flow (cfs, QPR)	396.04
Actual Bridge Opening Area (sq ft, BAREA)	31.
Trapezoidal Approx. Opening Area less Pier Area (sq ft, TAREA)	38.
Bridge Low Chord Elevation (ft MSL, ELLC)	5949.80
Top of Roadway Elevation (ft MSL, ELTRD)	5952.00
Roadway Weir Length (ft, WEIRLN)	197.0

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTKBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

19.100	.040	.024	.040	12.23	5954.53	.00	.00
.000079	119	119	119	5954.54	.01	2.81	.00
8.80	290	67	2809	.00	5952.00	5952.00	0
2470	135	77	2257	1022.5	1287.50	2310.00	0
.06	.47	1.15	.80	.000	4.5	5942.30	8

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 20.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

20.000	.040	.040	.000	5.50	5957.40	5957.40	.00
.007121	861	861	861	5957.92	.52	.22	.26
45.27	233	290	0	.00	5956.20	5957.60	0
2470	588	1881	0	518.6	1130.27	1648.92	12
.11	2.52	6.48	.00	.000	19.7	5951.90	0

STATUS: Analyzing cross-section reach 21.000.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

21.000	.040	.040	.000	2.17	5967.47	5967.47	.00
.017447	810	810	810	5967.90	.43	8.59	.03
54.54	285	186	0	.00	5965.90	5967.60	0
2470	1420	1049	0	455.7	1091.03	1546.70	13
.15	4.97	5.61	.00	.000	28.8	5965.30	0

STATUS: Analyzing cross-section reach 22.000.

STATUS: (3265) Divided flow.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTKBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

22.000	.040	.040	.040	2.47	5979.37	5979.37	.00
.011540	710	710	710	5979.72	.35	9.97	.02
63.25	110	263	223	.00	5977.50	5979.00	0
2470	.477	1449	542	842.9	1128.16	1987.79	8
.19	4.33	5.51	2.43	.000	39.4	5976.90	0

STATUS: Analyzing cross-section reach 23.000.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .61

23.000	.000	.040	.040	1.13	5988.33	5988.21	.00
.010894	770	770	770	5988.48	.14	8.70	.06
72.84	0	151	337	.00	5990.50	5988.70	4
1470	0	412	1057	800.4	1216.54	2120.15	13
.26	.00	2.72	3.14	.000	53.9	5987.20	0

STATUS: Analyzing cross-section reach 24.000.

STATUS: (3265) Divided flow.

24.000	.000	.040	.040	1.16	5999.16	5999.02	.00
.012821	920	920	920	5999.36	.19	10.85	.03
82.40	0	96	320	.00	6001.00	5999.60	5
1470	0	308	1161	590.5	1279.33	2012.34	8
.34	.00	3.20	3.62	.000	68.6	5998.00	0

STATUS: Analyzing cross-section reach 25.000.

25.000	.000	.040	.000	1.37	6006.67	6006.39	.00
.010483	650	650	650	6006.88	.22	7.52	.01
88.46	0	394	0	.00	6008.50	6008.60	4
1470	0	1469	0	406.8	1149.17	1555.95	5
.39	.00	3.73	.00	.000	76.0	6005.30	0

STATUS: Analyzing cross-section reach 26.000.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

26.000	.000	.040	.040	1.50	6016.10	6015.93	.00
.012375	830	830	830	6016.33	.23	9.44	.01
96.00	0	222	175	.00	6017.80	6014.90	3
1470	0	690	779	518.7	1180.56	1699.29	5
.45	.00	3.11	4.44	.000	84.8	6014.60	0

STATUS: Analyzing cross-section reach 27.000.

27.000	.000	.040	.040	.96	6025.06	6024.95	.00
.015302	650	650	650	6025.26	.20	8.92	.01
102.03	0	312	97	.00	6026.00	6024.30	4
1470	0	1152	317	615.6	1202.27	1817.89	11
.50	.00	3.68	3.27	.000	93.3	6024.10	0

T1 COLO SPGS FLOOD INSURANCE
 T2 PETERSON CREEK - BELOW PETERSON FIELD
 T3 PETERSON DRAINAGE CORRECTED EFF. :CORREWF.DAT

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3			-1			2520	5941	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1				-10	-6		

STATUS: Analyzing profile 2.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Allowable error for critical depth determination (ALLDC) is 10.000 percent of the depth.

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 18.000.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1273.00
Right Encroachment Station (ft, STENCR)	1323.00
Encroachment Method (TYPE)	1
Width or Percent Target	50.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

18.000	.000	.035	.000	6.77	5941.77	5941.77	5941.77
.012540	0	0	0	5943.94	2.17	.00	.00
.00	0	213	0	.00	5938.00	100000.00	0
2520	0	2520	0	49.5	1273.00	1322.54	7
.00	.00	11.81	.00	.000	.0	5935.00	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 19.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1488.00
Right Encroachment Station (ft, STENCR)	1718.00
Encroachment Method (TYPE)	1
Width or Percent Target	230.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
19.000	.040	.024	.040	9.79	5952.09	5952.09	5951.38
.010230	370	370	370	5952.91	.82	4.18	.40
2.57	0	52	338	.00	5952.00	5952.00	0
2470	0	582	1887	230.0	1488.00	1718.00	9
.01	.04	11.10	5.58	.000	1.2	5942.30	0

STATUS: Special bridge analysis being performed.

BRIDGE DESCRIPTION :

Bridge Total Loss Coefficient (XKOR)	1.25
Bridge Opening Total Area (sq ft, BAREA)	31.00
Bridge Opening Bottom Width (ft, BWC)	6.00
Bridge Opening Side Slope (SS)	1 : .00
Bridge Opening Upstream Invert (ft MSL, ELCHU)	5943.50
Bridge Opening Downstream Invert (ft MSL, ELCHD)	5942.30
Bridge Skew Factor (BSQ)	1.00
Roadway Length (ft, RDLEN)	.00
Roadway Weir Flow Discharge Coefficient (COFQ)	2.60
Pier Width (ft, BWP)	.00
Pier Loss Drag Coefficient (CMOM)	2.00
Pier Shape Coefficient (XK)	1.05

STATUS: Analyzing cross-section reach 19.100.

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WARNING: (1860) Bridge low chord elevation exceeds corresponding
top of roadway elevation.

Bridge Low Chord Elevation (ft MSL, XLCEL)	5953.00
Top of Roadway Elevation (ft MSL, RDEL)	5952.00

STATUS: (3280) For cross-section 19.10, ends have been extended
vertically .50 feet in order to calculate the hydraulic
cross-section properties.

STATUS: (3301) The velocity head difference for current and previous
cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	4.36
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STATUS: Pressure and weir flow. Weir submergence based on TRAPEZOIDAL
shape.

BRIDGE ANALYSIS RESULTS :

Pressure Flow Energy Grade Line Elevation (ft MSL, EGPRS)	6075.31
Low Flow Energy Grade Line Elevation (ft MSL, EGLWC)	5954.11
Low Flow Water Surface Drop Through Bridge (ft, H3)	.00
Total Weir Flow (cfs, QWEIR)	2122.
Total Pressure or Low Flow (cfs, QPR)	351.20
Actual Bridge Opening Area (sq ft, BAREA)	31.
Trapezoidal Approx. Opening Area less Pier Area (sq ft, TAREA)	38.
Bridge Low Chord Elevation (ft MSL, ELLC)	5949.80
Top of Roadway Elevation (ft MSL, ELTRD)	5952.00
Roadway Weir Length (ft, WEIRLN)	197.0

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1489.00
Right Encroachment Station (ft, STENCR)	1750.00
Encroachment Method (TYPE)	1
Width or Percent Target	261.000

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SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

19.100	.000	.024	.040	12.20	5954.50	.00	5954.53
.000538	119	119	119	5954.58	.08	1.67	.00
4.61	0	66	1036	.00	5952.00	5952.00	2
2470	0	186	2283	261.0	1489.00	1750.00	0
.03	.00	2.79	2.20	.000	1.9	5942.30	8

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 20.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)						1590.00	
Right Encroachment Station (ft, STENCR)						1647.00	
Encroachment Method (TYPE)						1	
Width or Percent Target						57.000	
20.000	.000	.040	.000	6.03	5957.93	5957.93	5957.40
.017650	861	861	861	5959.92	1.98	1.34	.95
17.67	0	218	0	.00	100000.00	100000.00	0
2470	0	2469	0	57.0	1590.00	1647.00	8
.05	.00	11.30	.00	.000	5.0	5951.90	0

STATUS: Analyzing cross-section reach 21.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.61

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 1325.00
 Right Encroachment Station (ft, STENCR) 1555.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 230.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

21.000	.040	.040	.000	3.14	5968.41	5967.72	5967.47
.006838	810	810	810	5968.81	.39	8.42	.48
24.26	151	338	0	.00	5965.90	100000.00	6
2470	772	1697	0	230.0	1325.00	1555.00	12
.10	5.09	5.02	.00	.000	7.7	5965.30	0

STATUS: Analyzing cross-section reach 22.000.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 1228.00
 Right Encroachment Station (ft, STENCR) 1400.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 172.000

22.000	.040	.040	.000	2.86	5979.76	5979.76	5979.37
.014585	710	710	710	5980.54	.78	6.84	.20
31.08	22	325	0	.00	5977.50	100000.00	0
2470	143	2326	0	172.0	1228.00	1400.00	6
.12	6.47	7.15	.00	.000	10.9	5976.90	0

STATUS: Analyzing cross-section reach 23.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1216.00
Right Encroachment Station (ft, STENCR)	1500.00
Encroachment Method (TYPE)	1
Width or Percent Target	284.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
23.000	.000	.040	.000	-1.94	5989.14	5988.75	5988.33
.007772	770	770	770	5989.38	.24	8.67	.16
37.46	0	374	0	.00	100000.00	100000.00	4
1470	0	1469	0	284.0	1216.00	1500.00	8
.18	.00	3.93	.00	.000	15.0	5987.20	0

STATUS: Analyzing cross-section reach 24.000.

STATUS: (3280) For cross-section 24.00, ends have been extended vertically .12 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1250.00
Right Encroachment Station (ft, STENCR)	1395.00
Encroachment Method (TYPE)	1
Width or Percent Target	145.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
24.000	.000	.040	.000	2.12	6000.12	6000.12	5999.16
.021264	920	920	920	6000.87	.74	11.11	.25
43.66	0	212	0	.00	100000.00	100000.00	0
1470	0	1469	0	145.0	1250.00	1395.00	5
.21	.00	6.93	.00	.000	19.5	5998.00	0

STATUS: Analyzing cross-section reach 25.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.89

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	1125.00						
Right Encroachment Station (ft, STENCR)	1370.00						
Encroachment Method (TYPE)	1						
Width or Percent Target	245.000						
25.000	.000	.040	.000	2.11	6007.41	6006.96	6006.67
.005944	650	650	650	6007.63	.23	6.61	.15
48.10	0	383	0	.00	100000.00	100000.00	5
1470	0	1469	0	245.0	1125.00	1370.00	10
.26	.00	3.84	.00	.000	22.4	6005.30	0

STATUS: Analyzing cross-section reach 26.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 1260.00
 Right Encroachment Station (ft, STENCR) 1390.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 130.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
26.000	.000	.040	.000	2.18	6016.78	6016.78	6016.10
.020392	830	830	830	6017.57	.79	8.32	.28
53.72	0	206	0	.00	100000.00	100000.00	0
1470	0	1469	0	130.0	1260.00	1390.00	5
.29	.00	7.13	.00	.000	26.0	6014.60	0

STATUS: Analyzing cross-section reach 27.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.52

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 1185.00
 Right Encroachment Station (ft, STENCR) 1460.00
 Encroachment Method (TYPE) 1
 Width or Percent Target 275.000

27.000	.000	.040	.000	1.69	6025.79	6025.46	6025.06
.008787	650	650	650	6026.06	.26	8.33	.16
57.92	0	356	0	.00	100000.00	100000.00	6
1470	0	1469	0	275.0	1185.00	1460.00	11
.34	.00	4.12	.00	.000	29.0	6024.10	0

SPECIAL NOTE :

An asterisk (*) to the left of the cross-section number indicates a special note is present in the SUMMARY OF WARNING AND STATUS MESSAGES section.

SUMMARY PRINTOUT TABLE 150 : PETERSON CREEK - BELOW PETERSON FIELD
 ----- PETERSON DRAINAGE CORRECTED EFF. :CORRFW
 COLO SPGS FLOOD INSURANCE

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRISW	EG		VCH	AREA	
* 18.000	.00	.00	.00	5935.00	2520.00	5941.77	5941.77	5943.72	105.81	11.38	230.31	244.98
* 18.000	.00	.00	.00	5935.00	2520.00	5941.77	5941.77	5943.94	125.40	11.81	213.30	225.04
* 19.000	370.00	.00	.00	5942.30	2470.00	5951.38	5951.38	5951.73	62.55	8.53	622.83	312.31
* 19.000	370.00	.00	.00	5942.30	2470.00	5952.09	5952.09	5952.91	102.30	11.10	391.00	244.21
* 19.100	119.00	5952.00	5949.80	5942.30	2470.00	5954.53	.00	5954.54	.79	1.15	3166.91	2787.37
* 19.100	119.00	5952.00	5949.80	5942.30	2470.00	5954.50	.00	5954.58	5.38	2.79	1103.01	1064.88
* 20.000	861.00	.00	.00	5951.90	2470.00	5957.40	5957.40	5957.92	71.21	6.48	523.79	292.70
* 20.000	861.00	.00	.00	5951.90	2470.00	5957.93	5957.93	5959.92	176.50	11.30	218.60	185.92
* 21.000	810.00	.00	.00	5965.30	2470.00	5967.47	5967.47	5967.90	174.47	5.61	472.55	187.00
* 21.000	810.00	.00	.00	5965.30	2470.00	5968.41	5967.72	5968.81	68.38	5.02	489.86	298.70
* 22.000	710.00	.00	.00	5976.90	2470.00	5979.37	5979.37	5979.72	115.40	5.51	596.46	229.93
* 22.000	710.00	.00	.00	5976.90	2470.00	5979.76	5979.76	5980.54	145.85	7.15	347.68	204.52
* 23.000	770.00	.00	.00	5987.20	1470.00	5988.33	5988.21	5988.48	108.94	2.72	488.65	140.84
23.000	770.00	.00	.00	5987.20	1470.00	5989.14	5988.75	5989.38	77.72	3.93	374.45	166.74
* 24.000	920.00	.00	.00	5998.00	1470.00	5999.16	5999.02	5999.36	128.21	3.20	416.88	129.82
* 24.000	920.00	.00	.00	5998.00	1470.00	6000.12	6000.12	6000.87	212.64	6.93	212.27	100.81
* 25.000	650.00	.00	.00	6005.30	1470.00	6006.67	6006.39	6006.88	104.83	3.73	394.48	143.58
* 25.000	650.00	.00	.00	6005.30	1470.00	6007.41	6006.96	6007.63	59.44	3.84	383.21	190.68
* 26.000	830.00	.00	.00	6014.60	1470.00	6016.10	6015.93	6016.33	123.75	3.11	397.76	132.14
* 26.000	830.00	.00	.00	6014.60	1470.00	6016.78	6016.78	6017.57	203.92	7.13	206.24	102.94
27.000	650.00	.00	.00	6024.10	1470.00	6025.06	6024.95	6025.26	153.02	3.68	409.88	118.84

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG		VCH	AREA	
* 27.000	650.00	.00	.00	6024.10	1470.00	6025.79	6025.46	6026.06	87.87	4.12	356.73	156.82

SUMMARY PRINTOUT TABLE 150 : PETERSON CREEK - BELOW PETERSON FIELD
 ----- PETERSON DRAINAGE CORRECTED EFF. :CORRFW
 COLO SPGS FLOOD INSURANCE

Cross- Section Number	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	W.S. Elev Diff per Profile (ft)	W.S. Elev Diff per Section (ft)	W.S. Elev Diff per Know/Comp (ft)	Water Surface Top Width (ft)	Channel Reach Length (ft)
SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 18.000	2520.00	5941.77	.00	.00	.77	60.32	.00
* 18.000	2520.00	5941.77	.01	.00	.01	49.54	.00
* 19.000	2470.00	5951.38	.00	9.61	.00	507.81	370.00
* 19.000	2470.00	5952.09	.71	10.32	.71	230.00	370.00
* 19.100	2470.00	5954.53	.00	3.16	.00	1022.50	119.00
* 19.100	2470.00	5954.50	-.03	2.41	-.03	261.00	119.00
* 20.000	2470.00	5957.40	.00	2.87	.00	518.65	861.00
* 20.000	2470.00	5957.93	.53	3.43	.53	57.00	861.00
* 21.000	2470.00	5967.47	.00	10.07	.00	455.68	810.00
* 21.000	2470.00	5968.41	.94	10.48	.94	230.00	810.00
* 22.000	2470.00	5979.37	.00	11.90	.00	842.86	710.00
* 22.000	2470.00	5979.76	.39	11.34	.39	172.00	710.00
* 23.000	1470.00	5988.33	.00	8.97	.00	800.38	770.00
	23.000	1470.00	.80	9.38	.80	284.00	770.00
	24.000	1470.00	.00	10.83	.00	590.47	920.00
* 24.000	1470.00	6000.12	.96	10.98	.96	145.00	920.00
	25.000	1470.00	.00	7.51	.00	406.78	650.00
* 25.000	1470.00	6007.41	.74	7.28	.74	245.00	650.00
	26.000	1470.00	.00	9.43	.00	518.73	830.00

Cross- Section Number	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	W.S. Elev Diff per Profile (ft)	W.S. Elev Diff per Section (ft)	W.S. Elev Diff per Know/Comp (ft)	Water Surface Top Width (ft)	Channel Reach Length (ft)
SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 26.000	1470.00	6016.78	.68	9.38	.68	130.00	830.00
27.000	1470.00	6025.06	.00	8.96	.00	615.62	650.00
* 27.000	1470.00	6025.79	.73	9.01	.73	275.00	650.00

SUMMARY OF WARNING AND STATUS MESSAGES :

Section 18, profile 1, critical depth assumed.

Section 18, profile 2, critical depth assumed.

Section 19, profile 1, critical depth assumed.

Section 19, profile 1, minimum specific energy.

Section 19, profile 2, critical depth assumed.

Section 19, profile 2, minimum specific energy.

Section 19.1, profile 1, conveyance change outside acceptable range.

Section 19.1, profile 2, conveyance change outside acceptable range.

Section 20, profile 1, critical depth assumed.

Section 20, profile 1, minimum specific energy.

Section 20, profile 2, critical depth assumed.

Section 20, profile 2, minimum specific energy.

Section 21, profile 1, critical depth assumed.

Section 21, profile 1, minimum specific energy.

Section 21, profile 2, conveyance change outside acceptable range.

Section 22, profile 1, critical depth assumed.

Section 22, profile 1, minimum specific energy.

Section 22, profile 2, critical depth assumed.

Section 22, profile 2, minimum specific energy.
 Section 23, profile 1, conveyance change outside acceptable range.
 Section 24, profile 2, critical depth assumed.
 Section 24, profile 2, minimum specific energy.
 Section 25, profile 2, conveyance change outside acceptable range.
 Section 26, profile 2, critical depth assumed.
 Section 26, profile 2, minimum specific energy.
 Section 27, profile 2, conveyance change outside acceptable range.

26 Warning and status message(s) generated

SUMMARY PRINTOUT TABLE 200 : PETERSON CREEK - BELOW PETERSON FIELD
 ----- PETERSON DRAINAGE CORRECTED EFF. :CORRFW
 COLO SPGS FLOOD INSURANCE

Profile Number 2

Cross- Section Number	Floodway Width (ft)	Floodway Section Area (sq ft)	Floodway Mean Velocity (ft/s)	W. S. Elevation with Floodway (ft MSL)	W. S. Elevation without Floodway (ft MSL)	W. S. Elevation Difference (ft)
18.000	50.	213.	11.8	5941.8	5941.8	.0
19.000	230.	391.	6.3	5952.1	5951.4	.7
19.100	261.	1103.	2.2	5954.5	5954.5	.0
20.000	57.	219.	11.3	5957.9	5957.4	.5
21.000	230.	490.	5.0	5968.4	5967.5	.9
22.000	172.	348.	7.1	5979.8	5979.4	.4
23.000	284.	374.	3.9	5989.1	5988.3	.8
24.000	145.	212.	6.9	6000.2	5999.2	1.0
25.000	245.	383.	3.8	6007.4	6006.7	.7
26.000	130.	206.	7.1	6016.8	6016.1	.7
27.000	275.	357.	4.1	6025.8	6025.1	.7

END OF OUTPUT

SFHA ANALYSIS

SEGMENT 2

5/04/1999

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=====

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PROJECT DESCRIPTION :

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR
PROJECT NUMBER : 67.42167.08
DESCRIPTION : SECT.11858/13000/SBCRT/HECSP4E2.*
ENGINEER : R. SANCHEZ / J. SCHWAB
DATE OF RUN : 5/04/1999
TIME OF RUN : 10:26 am

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.11858/13000/SBCRT/HECSP4E2.*

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2						600	5954.76	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1		-1				-1	-6		

USER-DEFINED SUMMARY TABLES (J3) :

	150	201								
NC	0.04	0.04	0.03							
X1	11858	13	609.56	670.01						
X3	0									
GR	5958	100	5956	208.46	5956	292.71	5955.39	5955.39	5955.39	
GR	5950.4	655.01	5955.39	670.01	5956	690.22	5958	609.56	5950.39	624.56
GR	5958	805.33	5960	878.95	5960	962.5		719.6	5958	802.29
NC	0.04	0.04	0.035		0.5					
X1	11934	15	676.95	736.91	81.62	85.14	80.76			
X3	10									
GR	5960	100	5958	148.58	5956	259.89	5956	5955.74	5955.74	
GR	5950.7	691.94	5950.7	721.92	5955.74	736.91	5960	286.59	5955.74	676.95
GR	5960	841.83	5960	854.48	5960	919.76	5962	807.49	5960	815.88
								1310.8	5962	1351.74
NC	0.04	0.04	0.03							
X1	12030	17	717.1	787.2	105.58	105.58	105.58			
X3	10			656.1	5964.13					
GR	5962	100	5960	141.87	5960	166.29	5960	5960.38	5960.38	
GR	5964.1	648.1	5964.13	656.1	5960.63	672.1	5960.38	328.87	5962.13	628.1
GR	5955.3	772.18	5960.38	787.2	5960	817.04	5962	717.1	5955.38	732.12
GR	5962	1264.81	5962	1301.79				1168.02	5962	1207.24
X1	12400	13	585.06	655.07	372.08	372.08	372.08			
X3	10									
GR	5966	100	5964	263.07	5964.5	504.06	5965.75	5962	5962	
GR	5962.2	540.06	5962	585.06	5957	600.06	5957	518.06	5965.75	524.06
GR	5964	707.19	5966	753.05	5966	756.87		640.07	5962	655.07

X1	12655	11	429.21	499.36	255	255	255			
X3	0							5963.12	5963.12	
GR	5968	100	5966	320.7	5966	338.6	5967.07	362.21	5967.07	368.21
GR	5963.5	384.21	5963.12	429.21	5958.12	444.24	5958.12	484.33	5963.12	499.36
GR	5968	587.6								
NC	0.04	0.04	0.035							
X1	12910	13	218.92	288.94	259.39	259.39	259.39			
X3	10							5964.31	5964.46	
GR	5968	105	5967.24	143.92	5967.24	151.92	5964.74	173.92	5964.24	218.92
GR	5959.2	233.92	5959.2	273.94	5964.24	288.94	5966	292.43	5968	298.43
GR	5970	347.97	5970	433.84	5970	435.43				
NC					0.5					
X1	12965	15	135.29	234.95	54.01	54.01	54.01			
X3	10							5970	5970	
GR	5972	100	5970	135.29	5968	141.28	5966	147.27	5964.24	150.03
GR	5959.2	165.03	5959.2	205.04	5964.24	220.04	5966	222.92	5968	228.94
GR	5970	234.95	5970	243.55	5970	262.91	5972	290.24	5972	358.06
NC					0.5					
X1	13000	10	117.89	187.92	34.4	34.4	34.4			
X3	10							5964.75	5964.75	
GR	5972	100	5970	106	5968	111.99	5964.75	117.89	5959.75	132.89
GR	5959.7	172.91	5964.75	187.92	5968	194.01	5970	200.03	5972	253.71

STATUS: Analyzing profile 1.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 11858.000.

[illegible]

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBK	RTBK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11934.000	.000	.035	.000	4.13	5954.83	5952.84	.00
.001438	81	80	85	5955.02	.18	.09	.01
.34	0	174	0	.00	5955.74	5955.74	0
600	0	600	0	54.5	679.66	734.20	8
.01	.00	3.44	.00	.000	.1	5950.70	0

STATUS: Analyzing cross-section reach 12030.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	656.10
Right Encroachment Station (ft, STENCR)	1301.79
Encroachment Method (TYPE)	1
Width or Percent Target	-656.100
Left Encroachment Elevation (ft, ELENCL)	5964.13
Right Encroachment Elevation (ft, ELENCR)	100000.00

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5960.38
Right Overbank Elevation (ft, RBEL)	5960.38

12030.000	.000	.030	.000	1.86	5957.16	5957.16	.00
.011395	105	105	105	5957.98	.82	.33	.32
.65	0	82	0	.00	5960.38	5960.38	0
600	0	599	0	50.9	726.78	777.68	14
.01	.00	7.25	.00	.000	.2	5955.30	0

STATUS: Analyzing cross-section reach 12400.000.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	1.90
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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5962.00
 Right Overbank Elevation (ft, RBEL) 5962.00

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12400.000	.000	.030	.000	2.64	5959.64	5958.82	.00
.003146	372	372	372	5959.99	.35	2.01	.00
1.54	0	126	0	.00	5962.00	5962.00	4
600	0	600	0	55.8	592.14	647.99	8
.03	.00	4.74	.00	.000	.7	5957.00	0

STATUS: Analyzing cross-section reach 12655.000.

12655.000	.000	.030	.000	2.41	5960.53	5959.94	.00
.004284	255	255	255	5960.96	.43	.93	.04
2.25	0	114	0	.00	5963.12	5963.12	3
600	0	600	0	54.6	436.99	491.58	14
.05	.00	5.25	.00	.000	1.0	5958.12	0

STATUS: Analyzing cross-section reach 12910.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.31
 Right Overbank Elevation (ft, RBEL) 5964.46

12910.000	.000	.035	.000	2.56	5961.76	5961.01	.00
.004831	259	259	259	5962.14	.38	1.18	.00
2.95	0	121	0	.00	5964.24	5964.24	2
600	0	600	0	55.2	226.33	281.53	15
.06	.00	4.94	.00	.000	1.3	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 12965.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5970.00
 Right Overbank Elevation (ft, RBEL) 5970.00

5/04/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12965.000	.000	.035	.000	2.86	5962.06	5961.02	.00
.003248	54	54	54	5962.35	.29	.21	.00
3.11	0	138	0	.00	5970.00	5970.00	2
600	0	600	0	57.0	156.53	213.54	15
.06	.00	4.33	.00	.000	1.4	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.75
 Right Overbank Elevation (ft, RBEL) 5964.75

13000.000	.000	.035	.000	2.43	5962.13	5961.54	.00
.005881	34	34	34	5962.57	.43	.15	.07
3.21	0	113	0	.00	5964.75	5964.75	2
600	0	600	0	54.4	125.74	180.15	14
.07	.00	5.27	.00	.000	1.5	5959.70	0

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.11858/13000/SBCRT/HECSP4E2.*

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3						1370	5956.32	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1				-1	-6		

STATUS: Analyzing profile 2.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 11858.000.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

11858.000	.040	.030	.040	5.93	5956.32	5953.90	5956.32
.000934	0	0	0	5956.55	.23	.00	.00
.00	227	283	13	.00	5955.39	5955.39	0
1370	179	1179	10	503.8	191.12	694.92	13
.00	.79	4.17	.80	.000	.0	5950.39	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 11934.000.

11934.000	.040	.035	.040	5.70	5956.40	5954.25	.00
.001509	81	80	85	5956.66	.25	.09	.01
.95	220	266	3	.00	5955.74	5955.74	0
1370	204	1163	2	510.0	237.80	747.79	11
.01	.92	4.37	.69	.000	1.0	5950.70	0

STATUS: Analyzing cross-section reach 12030.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	656.10
Right Encroachment Station (ft, STENCR)	1301.79
Encroachment Method (TYPE)	1
Width or Percent Target	-656.100
Left Encroachment Elevation (ft, ELENCL)	5964.13
Right Encroachment Elevation (ft, ELENCR)	100000.00

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5960.38
Right Overbank Elevation (ft, RBEL)	5960.38

5/04/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

12030.000	.000	.030	.000	3.08	5958.38	5958.38	.00
.009990	105	105	105	5959.69	1.31	.33	.53
1.72	0	149	0	.00	5960.38	5960.38	0
1370	0	1369	0	58.2	723.11	781.29	11
.01	.00	9.18	.00	.000	1.6	5955.30	0

STATUS: Analyzing cross-section reach 12400.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.70

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5962.00
 Right Overbank Elevation (ft, RBEL) 5962.00

12400.000	.000	.030	.000	4.09	5961.09	5960.05	.00
.003465	372	372	372	5961.73	.64	2.04	.00
3.27	0	214	0	.00	5962.00	5962.00	3
1370	0	1370	0	64.6	587.77	652.36	5
.03	.00	6.40	.00	.000	2.2	5957.00	0

STATUS: Analyzing cross-section reach 12655.000.

12655.000	.000	.030	.000	3.90	5962.02	5961.17	.00
.004119	255	255	255	5962.73	.71	.96	.04
4.49	0	201	0	.00	5963.12	5963.12	3
1370	0	1370	0	63.5	432.52	496.05	15
.04	.00	6.78	.00	.000	2.5	5958.12	0

STATUS: Analyzing cross-section reach 12910.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.31
 Right Overbank Elevation (ft, RBEL) 5964.46

5/04/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

12910.000	.000	.035	.000	4.04	5963.24	5962.25	.00
.004953	259	259	259	5963.90	.66	1.17	.00
5.72	0	210	0	.00	5964.24	5964.24	3
1370	0	1370	0	64.1	221.89	285.97	15
.05	.00	6.51	.00	.000	2.9	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 12965.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5970.00
Right Overbank Elevation (ft, RBEL)	5970.00

12965.000	.000	.035	.000	4.39	5963.59	5962.25	.00
.003668	54	54	54	5964.13	.54	.23	.00
5.99	0	233	0	.00	5970.00	5970.00	2
1370	0	1370	0	66.2	151.95	218.12	15
.05	.00	5.87	.00	.000	3.0	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5964.75
Right Overbank Elevation (ft, RBEL)	5964.75

13000.000	.000	.035	.000	3.96	5963.66	5962.78	.00
.005431	34	34	34	5964.36	.70	.15	.08
6.17	0	203	0	.00	5964.75	5964.75	2
1370	0	1370	0	63.5	121.15	184.69	19
.05	.00	6.72	.00	.000	3.0	5959.70	0

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.11858/13000/SBCRT/HECSP4E2.*

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		4						2470	5957	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3		-1				-1	-6		

STATUS: Analyzing profile 3.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 11858.000.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11858.000	.040	.030	.040	6.61	5957.00	5956.44	5957.00
.001182	0	0	0	5957.29	.29	.00	.00
.00	524	324	33	.00	5955.39	5955.39	0
2470	760	1663	46	550.7	154.23	704.91	18
.00	1.45	5.13	1.37	.000	.0	5950.39	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 11934.000.

11934.000	.040	.035	.040	6.45	5957.15	5956.52	.00
.001505	81	80	85	5957.39	.24	.11	.00
1.66	569	311	16	.00	5955.74	5955.74	2
2470	939	1511	18	564.7	195.62	760.35	12
.01	1.65	4.85	1.14	.000	1.0	5950.70	0

STATUS: Analyzing cross-section reach 12030.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

5/04/1999

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	656.10
Right Encroachment Station (ft, STENCR)	1301.79
Encroachment Method (TYPE)	1
Width or Percent Target	-656.100
Left Encroachment Elevation (ft, ELENCL)	5964.13
Right Encroachment Elevation (ft, ELENCR)	100000.00

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5960.38
Right Overbank Elevation (ft, RBEL)	5960.38

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12030.000	.000	.030	.000	4.40	5959.70	5959.70	.00
.008983	105	105	105	5961.47	1.77	.32	.76
3.03	0	231	0	.00	5960.38	5960.38	0
2470	0	2470	0	66.1	719.14	785.19	16
.01	.00	10.68	.00	.000	1.8	5955.30	0

STATUS: Analyzing cross-section reach 12400.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.59

12400.000	.040	.030	.040	5.52	5962.52	5961.36	.00
.003566	372	372	372	5963.47	.95	2.00	.00
5.44	18	310	3	.00	5962.00	5962.00	2
2470	22	2444	3	129.7	538.67	668.34	5
.02	1.22	7.87	.89	.000	2.6	5957.00	0

STATUS: Analyzing cross-section reach 12655.000.

5/04/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

12655.000	.040	.030	.040	5.32	5963.44	5962.47	.00
.004149	255	255	255	5964.50	1.06	.98	.05
7.31	6	298	0	.00	5963.12	5963.12	3
2470	4	2464	0	115.0	390.34	505.29	14
.03	.72	8.25	.72	.000	3.4	5958.12	0

STATUS: Analyzing cross-section reach 12910.000.

12910.000	.040	.035	.040	5.50	5964.70	5963.58	.00
.004988	259	259	259	5965.68	.98	1.18	.00
9.17	9	309	0	.00	5964.24	5964.24	3
2470	9	2460	0	112.2	177.61	289.85	12
.04	.98	7.95	.91	.000	4.0	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 12965.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5970.00
Right Overbank Elevation (ft, RBEL)	5970.00

12965.000	.000	.035	.000	5.89	5965.09	5963.56	.00
.003983	54	54	54	5965.92	.83	.24	.00
9.58	0	337	0	.00	5970.00	5970.00	2
2470	0	2470	0	72.7	148.70	221.42	15
.04	.00	7.32	.00	.000	4.2	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

13000.000	.040	.035	.040	5.45	5965.15	5964.08	.00
.005311	34	34	34	5966.17	1.02	.16	.10
9.83	0	304	0	.00	5964.75	5964.75	2
2470	0	2469	0	71.5	117.17	188.67	15
.04	.84	8.11	.85	.000	4.2	5959.70	0

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR

5/04/1999

T3 SECT.11858/13000/SBCRT/HECSP4E2.*

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		5						4087	5957.88	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1				-1	-6		

STATUS: Analyzing profile 4.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 11858.000.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11858.000	.040	.030	.040	7.49	5957.88	5957.03	5957.88
.001128	0	0	0	5958.15	.27	.00	.00
.00	946	377	70	.00	5955.39	5955.39	0
4087	1870	2093	123	611.3	106.51	717.84	8
.00	1.98	5.54	1.77	.000	.0	5950.39	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 11934.000.

11934.000	.040	.035	.040	7.34	5958.04	5957.10	.00
.001318	81	80	85	5958.25	.22	.10	.00
2.64	1015	364	43	.00	5955.74	5955.74	2
4087	2186	1836	64	627.2	147.70	774.95	9
.01	2.15	5.04	1.48	.000	1.2	5950.70	0

STATUS: Analyzing cross-section reach 12030.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	656.10
Right Encroachment Station (ft, STENCR)	1301.79
Encroachment Method (TYPE)	1
Width or Percent Target	-656.100
Left Encroachment Elevation (ft, ELENCL)	5964.13
Right Encroachment Elevation (ft, ELENCR)	100000.00

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12030.000	.040	.030	.040	6.42	5961.72	5961.72	.00
.003580	105	105	105	5962.71	1.00	.22	.39
5.25	57	371	304	.00	5960.38	5960.38	0
4087	141	3292	653	451.1	667.13	1118.23	12
.01	2.48	8.87	2.15	.000	2.5	5955.30	0

STATUS: Analyzing cross-section reach 12400.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

12400.000	.040	.030	.040	6.20	5963.20	5963.20	.00
.005617	372	372	372	5964.95	1.76	1.65	.38
10.21	51	358	18	.00	5962.00	5962.00	0
4087	149	3900	36	150.7	535.57	686.26	8
.02	2.91	10.87	1.98	.000	5.0	5957.00	0

STATUS: Analyzing cross-section reach 12655.000.

5/04/1999

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

12655.000	.040	.030	.040	6.64	5964.76	5964.27	.00
.004084	255	255	255	5966.17	1.41	1.21	.00
12.88	68	390	24	.00	5963.12	5963.12	2
4087	205	3830	50	150.5	378.55	529.08	5
.03	2.98	9.80	2.08	.000	5.9	5958.12	0

STATUS: Analyzing cross-section reach 12910.000.

12910.000	.040	.035	.040	6.81	5966.01	5965.35	.00
.005048	259	259	259	5967.34	1.33	1.17	.00
15.76	75	401	3	.00	5964.24	5964.24	0
4087	254	3825	7	129.8	162.68	292.48	11
.04	3.35	9.52	2.28	.000	6.8	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 12965.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5970.00
Right Overbank Elevation (ft, RBEL)	5970.00

12965.000	.000	.035	.000	7.04	5966.24	5965.03	.00
.005540	54	54	54	5967.68	1.44	.29	.06
16.32	0	424	0	.00	5970.00	5970.00	1
4087	0	4087	0	77.2	146.52	223.68	15
.04	.00	9.62	.00	.000	6.9	5959.20	0

Contraction Coefficient (CCHV) .000

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

13000.000	.040	.035	.040	6.60	5966.30	5965.52	.00
.006599	34	34	34	5968.04	1.73	.21	.15
16.64	2	385	2	.00	5964.75	5964.75	2
4087	5	4076	5	75.8	115.07	190.83	15
.04	2.33	10.58	2.34	.000	6.9	5959.70	0

5/04/1999

SPECIAL NOTE :

An asterisk (*) to the left of the cross-section number indicates a special note is present in the SUMMARY OF WARNING AND STATUS MESSAGES section.

SUMMARY PRINTOUT TABLE 150 : PETERSON FIELD DRAINAGE BASIN LOMR
 SECT.11858/13000/SBCRT/HECSP4E2.*
 67.42167.08

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.)
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG		VCH	AREA	.01K
11858.000	.00	.00	.00	5950.39	600.00	5954.76	5952.52	5954.91	8.35	3.16	190.12	207.62
11858.000	.00	.00	.00	5950.39	1370.00	5956.32	5953.90	5956.55	9.34	4.17	524.28	448.21
11858.000	.00	.00	.00	5950.39	2470.00	5957.00	5956.44	5957.29	11.82	5.13	882.89	718.30
11858.000	.00	.00	.00	5950.39	4087.00	5957.88	5957.03	5958.15	11.28	5.54	1394.11	1216.81
11934.000	80.76	.00	.00	5950.70	600.00	5954.83	5952.84	5955.02	14.38	3.44	174.46	158.22
11934.000	80.76	.00	.00	5950.70	1370.00	5956.40	5954.25	5956.66	15.09	4.37	490.25	352.67
11934.000	80.76	.00	.00	5950.70	2470.00	5957.15	5956.52	5957.39	15.05	4.85	897.47	636.76
11934.000	80.76	.00	.00	5950.70	4087.00	5958.04	5957.10	5958.25	13.18	5.04	1423.22	1125.77
* 12030.000	105.58	.00	.00	5955.30	600.00	5957.16	5957.16	5957.98	113.95	7.25	82.72	56.21
* 12030.000	105.58	.00	.00	5955.30	1370.00	5958.38	5958.38	5959.69	99.90	9.18	149.30	137.07
* 12030.000	105.58	.00	.00	5955.30	2470.00	5959.70	5959.70	5961.47	89.83	10.68	231.37	260.61
* 12030.000	105.58	.00	.00	5955.30	4087.00	5961.72	5961.72	5962.71	35.80	8.87	732.52	683.08
* 12400.000	372.08	.00	.00	5957.00	600.00	5959.64	5958.82	5959.99	31.46	4.74	126.49	106.97
* 12400.000	372.08	.00	.00	5957.00	1370.00	5961.09	5960.05	5961.73	34.65	6.40	214.16	232.73
* 12400.000	372.08	.00	.00	5957.00	2470.00	5962.52	5961.36	5963.47	35.66	7.87	332.71	413.64
* 12400.000	372.08	.00	.00	5957.00	4087.00	5963.20	5963.20	5964.95	56.17	10.87	429.09	545.34
12655.000	255.00	.00	.00	5958.12	600.00	5960.53	5959.94	5960.96	42.84	5.25	114.22	91.67
12655.000	255.00	.00	.00	5958.12	1370.00	5962.02	5961.17	5962.73	41.19	6.78	201.94	213.45
12655.000	255.00	.00	.00	5958.12	2470.00	5963.44	5962.47	5964.50	41.49	8.25	305.97	383.48
12655.000	255.00	.00	.00	5958.12	4087.00	5964.76	5964.27	5966.17	40.84	9.80	484.31	639.51
12910.000	259.39	.00	.00	5959.20	600.00	5961.76	5961.01	5962.14	48.31	4.94	121.42	86.33
12910.000	259.39	.00	.00	5959.20	1370.00	5963.24	5962.25	5963.90	49.53	6.51	210.38	194.66
12910.000	259.39	.00	.00	5959.20	2470.00	5964.70	5963.58	5965.68	49.88	7.95	319.13	349.73
12910.000	259.39	.00	.00	5959.20	4087.00	5966.01	5965.35	5967.34	50.48	9.52	480.86	575.23
12965.000	54.01	.00	.00	5959.20	600.00	5962.06	5961.02	5962.35	32.48	4.33	138.63	105.27

5/04/1999

Cross- Section Number	Channel Reach Length (ft)	Top of Roadway Elevation (ft MSL)	Max. Low Chord Elevation (ft MSL)	Minimum C. S. Elevation (ft MSL)	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	Critical W. S. Elevation (ft MSL)	Energy Gradient Elevation (ft MSL)	Energy Gradient Slope * 10,000 10K*S	Channel Mean Flow Velocity (ft/s)	Cross- Section Area (sq ft)	Index Q (0.01 * Convey.) .01K
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG		VCH	AREA	
12965.000	54.01	.00	.00	5959.20	1370.00	5963.59	5962.25	5964.13	36.68	5.87	233.30	226.21
12965.000	54.01	.00	.00	5959.20	2470.00	5965.09	5963.56	5965.92	39.83	7.32	337.64	391.37
12965.000	54.01	.00	.00	5959.20	4087.00	5966.24	5965.03	5967.68	55.40	9.62	424.63	549.08
13000.000	34.40	.00	.00	5959.70	600.00	5962.13	5961.54	5962.57	58.81	5.27	113.77	78.24
13000.000	34.40	.00	.00	5959.70	1370.00	5963.66	5962.78	5964.36	54.31	6.72	203.94	185.91
13000.000	34.40	.00	.00	5959.70	2470.00	5965.15	5964.08	5966.17	53.11	8.11	304.66	338.94
13000.000	34.40	.00	.00	5959.70	4087.00	5966.30	5965.52	5968.04	65.99	10.58	389.64	503.12

SUMMARY PRINTOUT TABLE 150 : PETERSON FIELD DRAINAGE BASIN LOMR
 ----- SECT.11858/13000/SBCRT/HECSP4E2.*
 67.42167.08

Cross- Section Number	Discharge Flow (cfs)	Computed W. S. Elevation (ft MSL)	W.S. Elev Diff per Profile (ft)	W.S. Elev Diff per Section (ft)	W.S. Elev Diff per Know/Comp (ft)	Water Surface Top Width (ft)	Channel Reach Length (ft)
SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
11858.000	600.00	5954.76	.00	.00	.00	56.66	.00
11858.000	1370.00	5956.32	1.56	.00	.00	503.80	.00
11858.000	2470.00	5957.00	.68	.00	.00	550.68	.00
11858.000	4087.00	5957.88	.88	.00	.00	611.32	.00
11934.000	600.00	5954.83	.00	.07	.00	54.54	80.76
11934.000	1370.00	5956.40	1.57	.08	.00	509.99	80.76
11934.000	2470.00	5957.15	.75	.15	.00	564.73	80.76
11934.000	4087.00	5958.04	.88	.16	.00	627.25	80.76
* 12030.000	600.00	5957.16	.00	2.33	.00	50.90	105.58
* 12030.000	1370.00	5958.38	1.22	1.98	.00	58.18	105.58
* 12030.000	2470.00	5959.70	1.32	2.55	.00	66.05	105.58
* 12030.000	4087.00	5961.72	2.02	3.68	.00	451.10	105.58
* 12400.000	600.00	5959.64	.00	2.48	.00	55.84	372.08
* 12400.000	1370.00	5961.09	1.46	2.71	.00	64.58	372.08
* 12400.000	2470.00	5962.52	1.42	2.82	.00	129.67	372.08
* 12400.000	4087.00	5963.20	.68	1.48	.00	150.69	372.08
12655.000	600.00	5960.53	.00	.89	.00	54.59	255.00

5/04/1999

Cross- Section Number	Discharge Flow (cfs) Q	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Profile (ft) DIFWSP	W.S. Elev Diff per Section (ft) DIFWSX	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Water Surface Top Width (ft) TOPWID	Channel Reach Length (ft) XLCH
SECNO							
12655.000	1370.00	5962.02	1.49	.92	.00	63.52	255.00
12655.000	2470.00	5963.44	1.43	.93	.00	114.95	255.00
12655.000	4087.00	5964.76	1.32	1.56	.00	150.53	255.00
12910.000	600.00	5961.76	.00	1.23	.00	55.20	259.39
12910.000	1370.00	5963.24	1.48	1.23	.00	64.08	259.39
12910.000	2470.00	5964.70	1.46	1.25	.00	112.24	259.39
12910.000	4087.00	5966.01	1.31	1.25	.00	129.81	259.39
12965.000	600.00	5962.06	.00	.30	.00	57.02	54.01
12965.000	1370.00	5963.59	1.54	.35	.00	66.17	54.01
12965.000	2470.00	5965.09	1.49	.39	.00	72.72	54.01
12965.000	4087.00	5966.24	1.16	.23	.00	77.16	54.01
13000.000	600.00	5962.13	.00	.08	.00	54.41	34.40
13000.000	1370.00	5963.66	1.53	.07	.00	63.54	34.40
13000.000	2470.00	5965.15	1.48	.06	.00	71.50	34.40
13000.000	4087.00	5966.30	1.16	.06	.00	75.76	34.40

SUMMARY OF WARNING AND STATUS MESSAGES :

Section 12030, profile 1, critical depth assumed.

Section 12030, profile 1, minimum specific energy.

Section 12030, profile 2, critical depth assumed.

Section 12030, profile 2, minimum specific energy.

Section 12030, profile 3, critical depth assumed.

Section 12030, profile 3, minimum specific energy.

Section 12030, profile 4, critical depth assumed.

Section 12030, profile 4, minimum specific energy.

Section 12400, profile 1, conveyance change outside acceptable range.

Section 12400, profile 2, conveyance change outside acceptable range.

Section 12400, profile 3, conveyance change outside acceptable range.

Section 12400, profile 4, critical depth assumed.

Section 12400, profile 4, minimum specific energy.

13 Warning and status message(s) generated

FLOODWAY INSURANCE ZONE DATA : PETERSON FIELD DRAINAGE BASIN LOMR
 ----- SECT.11858/13000/SBCRT/HECSP4E2.*
 67.42167.08

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS :

Cross- Section Number	Cumulative Distance (ft)	-----Elevation Difference----- Between Base Flood and		
		10 Year Flood 10% prb. (ft)	50 Year Flood 2% prb. (ft)	500 Year Flood 0.2% prb. (ft)

11858.000	0.	-2.24	-.68	.88
11934.000	81.	-2.32	-.75	.88
12030.000	186.	-2.54	-1.32	2.02
12400.000	558.	-2.88	-1.42	.68
12655.000	813.	-2.91	-1.43	1.32
12910.000	1073.	-2.94	-1.46	1.31
12965.000	1127.	-3.03	-1.49	1.16
13000.000	1161.	-3.01	-1.48	1.16

 Weighted Avg for Reach: -2.77 -1.33 1.23

Flood hazard factor (FHF) is 030 for the reach , with 100.0 percent
 of the reach within 1.00 feet. Zone for the reach = A 6.

END OF OUTPUT

SEGMENT 3

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=====

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PROJECT DESCRIPTION :

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR
PROJECT NUMBER : 67.42167.08
DESCRIPTION : SECT.13000/17150 SPRCRIT/HECSP4E3.*
ENGINEER : R.SANCHEZ/J.SCHWAB
DATE OF RUN : 10/19/1998
TIME OF RUN : 10:32 am

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.13000/17150 SPRCRIT/HECSP4E3.DAT

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2		1				360	6016.3	
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1		-1				-1	-6		

USER-DEFINED SUMMARY TABLES (J3) :

	150	201								
NC	0.04	0.04	0.013							
X1	17510	8	102	132	128.54	128.54	128.54			
X3	10							6021.51	6021.51	
GR	6022	96.5	6021.51	100	6021.51	102	6013.51	114	6013.51	120
GR	6021.5	132	6021.51	134	6022	136.5				
X1	17383	6	102	132	5	5	5			
X3	10							6020.84	6020.75	
GR	6020.7	100	6020.75	102	6012.75	114	6012.75	120	6020.75	132
GR	6020.7	134								
X1	17375	6	102	132	195.78	195.78	195.78			
X3	10							6018.75	6018.75	
GR	6018.7	100	6018.75	102	6010.75	114	6010.75	120	6018.75	132
GR	6018.7	134								
X1	17178	6	102	132	4	4	4			
X3	10							6017.5	6017.5	
GR	6017.5	100	6017.5	102	6009.5	114	6009.5	120	6017.5	132
GR	6017.5	134								
X1	17174	6	102	132	242	242	242			
X3	10							6016.5	6016.5	
GR	6016.5	100	6016.5	102	6008.5	114	6008.5	120	6016.5	132
GR	6016.5	134								
X1	16928	6	102	132	8	8	8			
X3	10							6014.95	6014.95	

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

10/19/1998

GR	6014.9	100	6014.95	102	6006.95	114	6006.95	120	6014.95	132
GR	6014.9	134								
X1	16920	6	102	132	192	192	192			
X3	10									
GR	6012.9	100	6012.95	102	6004.95	114	6004.95	6012.95 120	6012.95	132
GR	6012.9	134								
X1	16728	6	102	132	8	8	8			
X3	10									
GR	6011.7	100	6011.72	102	6003.72	114	6003.72	6011.72 120	6011.72	132
GR	6011.7	134								
X1	16720	6	102	132	204	204	204			
X3	10									
GR	6009.7	100	6009.72	102	6001.72	114	6001.72	6009.72 120	6009.72	132
GR	6009.7	134								
X1	16516	6	102	132	8	8	8			
X3	10									
GR	6008.4	100	6008.41	102	6000.41	114	6000.41	6008.41 120	6008.41	132
GR	6008.4	134								
X1	16508	6	102	132	205	250	205			
X3	10									
GR	6006.4	100	6006.41	102	5998.41	114	5998.41	6006.41 120	6006.41	132
GR	6006.4	134								
X1	16303	6	102	132	8	8	8			
X3	10									
GR	6005.1	100	6005.1	102	5997.1	114	5997.1	6005.1 120	6005.1	132
GR	6005.1	134								
X1	16295	6	102	132	125	125	125			
X3	10									
GR	6004.1	100	6004.1	102	5996.1	114	5996.1	6004.1 120	6004.1	132
GR	6004.1	134								
NC				0.3						
X1	16171	6	102	132	32	32	32			
X3	10									
GR	6003.3	100	6003.3	102	5995.3	114	5995.3	6003.3 120	6003.3	132
GR	6003.3	134								
X1	16139	11	158.02	176.98	129	129	129			
X3	0									
X5	4	5998.11	6000.73	6004.01	6005.92			6002.6	6002.6	
GR	6006	100	6002.6	157.02	6002.6	158.02	5994.6	158.02	5994.6	167.03
GR	6002.6	167.05	6002.6	167.88	5994.6	167.88	5994.6	176.98	6002.6	176.98
GR	6006	197.33								
X1	16010	10	115.38	133.94	32	32	32			

X3	10							6000.48	6000.48	
GR	6004	100	6000.48	115.38	5992.48	115.39	5992.48	124.24	6000.48	124.25
GR	6000.4	125.07	5992.48	125.08	5992.48	133.93	6000.48	133.94	6004	158.89
NC					0.5					
X1	15978	6	102	133.51	180.13	176.49	178.33			
X3	10							6000.37	6000.37	
X5	4	5994.43	5995.75	5997.03	5998.42					
GR	6000.3	100	6000.37	102	5991.87	114.75	5991.87	120.75	6000.37	133.51
GR	6000.3	135.51								
X1	15800	5	100	131.56	209.46	191.33	199.59			
X3	10							5998.95	5998.95	
GR	5998.9	100	5990.45	112.75	5990.45	118.72	5998.95	131.56	5998.95	133.56
X1	15600	5	100	131.31	206.82	194.32	200			
X3	10							5997.35	5997.35	
GR	5997.3	100	5988.85	112.55	5988.85	118.66	5997.35	131.31	5997.35	133.29
X1	15400	6	102	133.51	400	400	400			
X3	10							5995.75	5995.75	
GR	5995.7	100	5995.75	102	5987.25	114.76	5987.25	120.76	5995.75	133.51
GR	5995.7	135.51								
X1	15000	6	102	133.51	350	350	350			
X3	10							5992.55	5992.55	
GR	5992.5	100	5992.55	102	5984.05	114.75	5984.05	120.76	5992.55	133.51
GR	5992.5	135.51								
NC	0.016	0.016	0.013	0.3						
X1	14650	8	146.61	178.17	48.28	48.28	48.28			
X3	10							5990.16	5990.16	
GR	5995.2	100	5990.16	144.61	5990.16	146.61	5981.66	159.39	5981.66	165.4
GR	5990.1	178.17	5990.16	180.18	5992.67	205.17				
X1	14606	11	216.8	235.74	302	302	302			
X3	10							5989.28	5989.28	
X5	4	5984.79	5987.42	5990.71	5994.12					
GR	5994	100	5989.28	216.8	5981.28	216.81	5981.28	225.84	5981.28	226.1814
GR	5981.2	226.1814	5981.28	226.7	5981.28	235.73	5989.28	235.74	5992.67	275.37
GR	5992	473.15								
X1	14317	21	177.21	197.41	33.75	36.88	32.38			
X3	10							5988	5988	
GR	6000	100	5998	130.04	5996	139.83	5994	164.54	5992	168.47
GR	5990	172.41	5988	177.21	5985.17	177.51	5977.17	177.52	5977.17	186.54
GR	5985.1	186.55	5985.17	187.38	5977.17	187.39	5977.17	196.41	5985.17	196.42
GR	5988	197.41	5988	202.42	5988	269.08	5990	279.29	5992	297.8
GR	5994	321.15								
NC					0.5					
X1	14285	23	157.35	189.36	68.59	94.58	68.79			

X3	10					191.36	5984.66	5984.66	5984.66	
X5	4	5977.98	5978.78	5979.6	5980.51					
GR	6000	100	5998	108.16	5996	115.78	5994	123.4	5992	131.01
GR	5990	138.63	5988	146.24	5986	153.86	5984.66	155.34	5984.66	157.35
GR	5976.6	169.35	5976.6	177.36	5984.66	189.36	5984.66	191.36	5984	208.63
GR	5982	240.38	5980	250.89	5980	261.22	5982	272.03	5984	284.89
GR	5984	293	5984	313.4	5986	315.88				
X1	14217	6	102	134.01	123.98	125.87	124.95			
X3	10							5981.33	5981.33	
GR	5981.3	100	5981.33	102	5973.33	114	5973.33	122	5981.33	134.01
GR	5981.3	136.01								
NC					0.3					
QT	4	600	1370	2470	4087					
X1	14193	6	102	140.01	392.11	380.11	385.24			
X3	10							5980.62	5980.62	
GR	5980.6	100	5980.62	102	5972.62	114	5972.62	128.01	5980.62	140.01
GR	5980.6	142.01								
X1	13706	6	102	140	135.63	134.52	135.58			
X3	10							5977.42	5977.42	
GR	5977.4	100	5977.42	102	5969.42	114	5969.42	128	5977.42	140
GR	5977.4	142								
NC					0.3					
X1	13570	6	102	140	40	40	40			
X3	10							5977.25	5977.25	
GR	5977.2	100	5977.25	102	5968.25	114	5968.25	128	5977.25	140
GR	5977.2	142								
NC	0.013	0.013	0.013							
X1	13525	8	100.99	121.01	116.7	123.88	120.36			
X3	10							5976.42	5976.42	
GR	5976.4	100	5976.42	100.99	5967.42	101	5967.42	121	5967.42	121.01
GR	5976.4	121.01	5976.42	121.02	5976.42	122				
X1	13405	6	164.06	184.26	119.17	129.51	124.07			
X3	10							5975.43	5975.43	
GR	5977.4	100	5975.43	164.06	5966.43	164.16	5966.43	184.16	5975.43	184.26
GR	5977.4	209								
X1	13280	8	175.41	195.64	78.04	73.14	75.52			
X3	10							5974.39	5974.4	
GR	5975.4	100	5975.4	169.45	5974.39	175.41	5965.39	175.51	5965.39	195.54
GR	5974.4	195.64	5975.4	199.35	5973.39	258.24				
X1	13205	7	209.59	229.05	103.28	90.77	99.51			
X3	10							5972.95	5972.95	
GR	5975.4	100	5972.95	209.59	5963.95	209.69	5963.95	228.95	5972.95	229.05
GR	5973.4	234.68	5973.4	266.81						

X1	13105	6	188.28	208.11	72.16	67.55	69.75			
X3	10									
GR	5973.4	100	5971.03	188.28	5962.03	188.38	5962.03	5971.03	5971.03	
GR	5971.4	261.46						208.01	5971.03	208.11
X1	13036	8	100.99	121.01	39.13	39.07	37.09			
X3	10									
GR	5969.6	100	5969.67	100.99	5969.67	100.99	5960.67	5969.67	5969.67	
GR	5960.6	121	5969.67	121.01	5969.67	122		101	5960.67	101
NC					0.5					
X1	13000	4	100	170.02						
X3	10									
GR	5964.7	100	5959.75	115.01	5959.75	155.02	5964.75	5964.75	5964.75	
								170.02		

STATUS: Analyzing profile 1.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 17510.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6021.51
Right Overbank Elevation (ft, RBEL)	6021.51

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

10/19/1998

Cross Section Number SECNO	Left Overbank Manning XNL	Channel Manning n XNCH	Right Overbank Manning XNR	Flow Depth DEPTH (ft)	Water Surface Elevation CWSEL (ft MSL)	Critical W. S. Elevation CRIWS (ft MSL)	Known W. S. Elevation WSELK (ft MSL)
Energy Gradient	Left Overbank Length	Channel Length	Right Overbank Length	Energy Gradient Elevation EG	Weighted Velocity Head HV	Friction Energy Loss HL	Other Energy Loss OLOSS
SLOPE (ft/ft)	XLOBL (ft)	XLCH (ft)	XLOBR (ft)	(ft MSL)	(ft)	(ft)	(ft)
Cummul- ative Volume VOL (acre-ft)	Left Overbank Area ALOB (sq ft)	Channel Area ACH (sq ft)	Right Overbank Area AROB (sq ft)	Bridge Deck Area CORAR (sq ft)	Left Bank Elevation LTBNK (ft MSL)	Right Bank Elevation RTBNK (ft MSL)	Number of Balance Trials ITRIAL
Total Flow Q (cfs)	Left Overbank Flow QLOB (cfs)	Channel Flow QCH (cfs)	Right Overbank Flow QROB (cfs)	Computed W. S. TOPWD (ft)	Left W. S. SSTA (ft)	Right W. S. ENDST (ft)	Number of Crit Dpth Trials IDC
Flow Travel Time TIME (hrs)	Left Overbank Velocity VLOB (ft/s)	Channel Mean Velocity VCH (ft/s)	Right Overbank Velocity VROB (ft/s)	Length Weighted Manning n WTN	Cummul. Surface Area TWA (acres)	Minimum C. S. Elevation ELMIN (ft MSL)	Number of Other Trials ICONT
17510.000	.000	.013	.000	2.79	6016.30	6017.08	6016.30
.005736	0	0	0	6018.79	2.49	.00	.00
.00	0	28	0	.00	6021.51	6021.50	0
360	0	360	0	14.4	109.81	124.19	10
.00	.00	12.67	.00	.000	.0	6013.51	0

STATUS: Analyzing cross-section reach 17383.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)

6020.84

Right Overbank Elevation (ft, RBEL)

6020.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRISW	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17383.000	.000	.013	.000	2.78	6015.53	6016.31	.00
.005829	128	128	128	6018.05	2.52	.74	.00
.08	0	28	0	.00	6020.75	6020.75	6
360	0	360	0	14.3	109.83	124.17	11
.00	.00	12.74	.00	.000	.0	6012.75	0

STATUS: Analyzing cross-section reach 17375.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.62

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6018.75
 Right Overbank Elevation (ft, RBEL) 6018.75

17375.000	.000	.013	.000	2.16	6012.91	6014.31	.00
.015371	5	5	5	6018.00	5.09	.04	.00
.09	0	19	0	.00	6018.75	6018.75	7
360	0	359	0	12.5	110.77	123.23	11
.00	.00	18.11	.00	.000	.0	6010.75	0

STATUS: Analyzing cross-section reach 17178.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6017.50
 Right Overbank Elevation (ft, RBEL) 6017.50

17178.000	.000	.013	.000	2.43	6011.93	6013.06	.00
.009858	195	195	195	6015.62	3.69	2.38	.00
.18	0	23	0	.00	6017.50	6017.50	6
360	0	360	0	13.3	110.37	123.63	14
.01	.00	15.42	.00	.000	.1	6009.50	0

STATUS: Analyzing cross-section reach 17174.000.

10/19/1998

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6016.50
 Right Overbank Elevation (ft, RBEL) 6016.50

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17174.000	.000	.013	.000	2.19	6010.69	6012.08	.00
.014526	4	4	4	6015.58	4.89	.05	.00
.19	0	20	0	.00	6016.50	6016.50	8
360	0	359	0	12.6	110.72	123.28	11
.01	.00	17.74	.00	.000	.1	6008.50	0

STATUS: Analyzing cross-section reach 16928.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6014.95
 Right Overbank Elevation (ft, RBEL) 6014.95

16928.000	.000	.013	.000	2.49	6009.44	6010.51	.00
.008887	242	242	242	6012.87	3.43	2.71	.00
.31	0	24	0	.00	6014.95	6014.95	6
360	0	360	0	13.5	110.27	123.73	14
.01	.00	14.85	.00	.000	.2	6006.95	0

STATUS: Analyzing cross-section reach 16920.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.43

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6012.95
 Right Overbank Elevation (ft, RBEL) 6012.95

10/19/1998

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16920.000	.000	.013	.000	2.07	6007.02	6008.53	.00
.018201	8	8	8	6012.77	5.75	.10	.00
.31	0	18	0	.00	6012.95	6012.95	7
360	0	359	0	12.2	110.91	123.09	11
.01	.00	19.24	.00	.000	.2	6004.95	0

STATUS: Analyzing cross-section reach 16728.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6011.72
 Right Overbank Elevation (ft, RBEL) 6011.72

16728.000	.000	.013	.000	2.35	6006.07	6007.28	.00
.011058	192	192	192	6010.09	4.01	2.68	.00
.40	0	22	0	.00	6011.72	6011.72	7
360	0	359	0	13.1	110.47	123.53	14
.01	.00	16.08	.00	.000	.2	6003.72	0

STATUS: Analyzing cross-section reach 16720.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6009.72
 Right Overbank Elevation (ft, RBEL) 6009.72

16720.000	.000	.013	.000	2.00	6003.72	6005.28	.00
.020452	8	8	8	6009.97	6.25	.12	.00
.41	0	17	0	.00	6009.72	6009.72	7
360	0	359	0	12.0	111.01	122.99	14
.01	.00	20.07	.00	.000	.2	6001.72	0

STATUS: Analyzing cross-section reach 16516.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6008.41
 Right Overbank Elevation (ft, RBEL) 6008.41

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16516.000	.000	.013	.000	2.32	6002.73	6003.98	.00
.011604	204	204	204	6006.89	4.16	3.08	.00
.50	0	22	0	.00	6008.41	6008.41	7
360	0	359	0	13.0	110.52	123.48	14
.02	.00	16.36	.00	.000	.3	6000.41	0

STATUS: Analyzing cross-section reach 16508.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6006.41
 Right Overbank Elevation (ft, RBEL) 6006.41

16508.000	.000	.013	.000	1.98	6000.39	6001.97	.00
.021000	8	8	8	6006.77	6.37	.12	.00
.50	0	17	0	.00	6006.41	6006.41	7
360	0	359	0	11.9	111.03	122.97	14
.02	.00	20.26	.00	.000	.3	5998.41	0

STATUS: Analyzing cross-section reach 16303.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6005.10
 Right Overbank Elevation (ft, RBEL) 6005.10

16303.000	.000	.013	.000	2.31	5999.41	6000.67	.00
.011763	205	205	250	6003.61	4.20	3.16	.00
.60	0	21	0	.00	6005.10	6005.10	7
360	0	359	0	12.9	110.53	123.47	14
.02	.00	16.44	.00	.000	.4	5997.10	0

STATUS: Analyzing cross-section reach 16295.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6004.10
 Right Overbank Elevation (ft, RBEL) 6004.10

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16295.000	.000	.013	.000	2.12	5998.22	5999.66	.00
.016152	8	8	8	6003.50	5.28	.11	.00
.60	0	19	0	.00	6004.10	6004.10	8
360	0	359	0	12.4	110.81	123.19	14
.02	.00	18.43	.00	.000	.4	5996.10	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .000

STATUS: Analyzing cross-section reach 16171.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6003.30
 Right Overbank Elevation (ft, RBEL) 6003.30

16171.000	.000	.013	.000	2.32	5997.62	5998.86	.00
.011688	125	125	125	6001.79	4.18	1.71	.00
.66	0	21	0	.00	6003.30	6003.30	7
360	0	359	0	12.9	110.53	123.47	14
.02	.00	16.40	.00	.000	.4	5995.30	0

STATUS: Analyzing cross-section reach 16139.000.

STATUS: Water surface elevation set by X5 card, 5998.110 ft MSL.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .54

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16139.000	.000	.013	.000	2.27	5996.87	5996.90	.00
.003370	32	32	32	5998.06	1.19	.18	.00
.68	0	41	0	.00	6002.60	6002.60	0
360	0	360	0	18.1	158.02	176.98	5
.02	.00	8.75	.00	.000	.4	5994.60	0

STATUS: Analyzing cross-section reach 16010.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.88

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6000.48
 Right Overbank Elevation (ft, RBEL) 6000.48

16010.000	.000	.013	.000	1.51	5993.99	5994.81	.00
.011945	129	129	129	5996.83	2.83	.74	.49
.78	0	26	0	.00	6000.48	6000.48	6
360	0	359	0	17.7	115.39	133.93	8
.03	.00	13.50	.00	.000	.5	5992.48	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 15978.000.

STATUS: Water surface elevation set by X5 card, 5994.430 ft MSL.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6000.37
 Right Overbank Elevation (ft, RBEL) 6000.37

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15978.000	.000	.013	.000	2.56	5994.43	5995.44	.00
.007988	32	32	32	5997.60	3.17	.31	.10
.80	0	25	0	.00	6000.37	6000.37	0
360	0	360	0	13.7	110.91	124.59	17
.03	.00	14.29	.00	.000	.5	5991.87	0

STATUS: Analyzing cross-section reach 15800.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5998.95
 Right Overbank Elevation (ft, RBEL) 5998.95

15800.000	.000	.013	.000	2.56	5993.01	5994.02	.00
.007989	180	178	176	5996.17	3.17	1.42	.00
.91	0	25	0	.00	5998.90	5998.95	5
360	0	360	0	13.7	108.88	122.59	11
.03	.00	14.28	.00	.000	.5	5990.45	0

STATUS: Analyzing cross-section reach 15600.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5997.35
 Right Overbank Elevation (ft, RBEL) 5997.35

15600.000	.000	.013	.000	2.56	5991.41	5992.41	.00
.007997	209	199	191	5994.58	3.17	1.60	.00
1.02	0	25	0	.00	5997.30	5997.35	7
360	0	360	0	13.7	108.77	122.45	11
.04	.00	14.29	.00	.000	.6	5988.85	0

STATUS: Analyzing cross-section reach 15400.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5995.75
 Right Overbank Elevation (ft, RBEL) 5995.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15400.000	.000	.013	.000	2.55	5989.80	5990.82	.00
.008005	206	200	194	5992.98	3.18	1.60	.00
1.14	0	25	0	.00	5995.75	5995.75	5
360	0	360	0	13.7	110.92	124.60	11
.04	.00	14.30	.00	.000	.7	5987.25	0

STATUS: Analyzing cross-section reach 15000.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						5992.55	
Right Overbank Elevation (ft, RBEL)						5992.55	
15000.000	.000	.013	.000	2.55	5986.60	5987.62	.00
.008005	400	400	400	5989.77	3.17	3.20	.00
1.37	0	25	0	.00	5992.55	5992.55	5
360	0	360	0	13.7	110.91	124.60	11
.05	.00	14.30	.00	.000	.8	5984.05	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14650.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						5990.16	
Right Overbank Elevation (ft, RBEL)						5990.16	
14650.000	.000	.013	.000	2.72	5984.38	5985.23	.00
.006304	350	350	350	5987.04	2.66	2.48	.26
1.58	0	27	0	.00	5990.16	5990.10	6
360	0	360	0	14.2	155.30	169.51	11
.05	.00	13.10	.00	.000	.9	5981.66	0

STATUS: Analyzing cross-section reach 14606.000.

STATUS: Water surface elevation set by X5 card, 5984.790 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .65

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5989.28
 Right Overbank Elevation (ft, RBEL) 5989.28

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	RTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14606.000	.000	.013	.000	2.28	5983.48	5983.50	.00
.002643	48	48	48	5984.64	1.16	.19	.75
1.62	0	41	0	.00	5989.28	5989.28	0
360	0	360	0	18.9	216.81	235.73	15
.06	.00	8.63	.00	.000	.9	5981.20	0

STATUS: Analyzing cross-section reach 14317.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.63

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5988.00
 Right Overbank Elevation (ft, RBEL) 5988.00

14317.000	.000	.013	.000	1.29	5978.46	5979.48	.00
.018332	302	302	302	5982.19	3.73	1.68	.77
1.84	0	23	0	.00	5988.00	5988.00	6
360	0	359	0	18.0	177.52	196.41	5
.06	.00	15.50	.00	.000	1.0	5977.17	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14285.000.

STATUS: Water surface elevation set by X5 card, 5977.980 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.60

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	.00
Right Encroachment Station (ft, STENCR)	191.36
Encroachment Method (TYPE)	1
Width or Percent Target	191.359

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5984.66
Right Overbank Elevation (ft, RBEL)	5984.66

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14285.000	.000	.013	.000	1.38	5977.98	5979.82	.00
.046896	33	32	36	5988.41	10.43	.90	2.01
1.86	0	13	0	.00	5984.66	5984.66	0
360	0	359	0	12.1	167.30	179.41	17
.06	.00	25.92	.00	.000	1.0	5976.60	0

STATUS: Analyzing cross-section reach 14217.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5981.33
Right Overbank Elevation (ft, RBEL)	5981.33

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

10/19/1998

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14217.000	.000	.013	.000	1.37	5974.70	5976.55	.00
.047173	68	68	94	5985.17	10.47	3.24	.01
1.88	0	13	0	.00	5981.33	5981.33	9
360	0	359	0	12.1	111.93	124.07	17
.06	.00	25.96	.00	.000	1.1	5973.33	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 14193.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .38

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5980.62
Right Overbank Elevation (ft, RBEL)	5980.62

14193.000	.000	.013	.000	1.78	5974.40	5976.00	.00
.018992	123	124	125	5980.75	6.34	3.19	1.24
1.94	0	29	0	.00	5980.62	5980.62	6
600	0	599	0	19.3	111.33	130.68	17
.06	.00	20.21	.00	.000	1.1	5972.62	0

STATUS: Analyzing cross-section reach 13706.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .66

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5977.42
Right Overbank Elevation (ft, RBEL)	5977.42

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

10/19/1998

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

13706.000	.000	.013	.000	2.27	5971.69	5972.80	.00
.008275	392	385	380	5975.30	3.61	4.63	.82
2.25	0	39	0	.00	5977.42	5977.42	6
600	.0	599	0	20.8	110.61	131.39	14
.07	.00	15.25	.00	.000	1.3	5969.42	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 13570.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5977.25
Right Overbank Elevation (ft, RBEL)	5977.25

13570.000	.000	.013	.000	2.30	5970.55	5971.66	.00
.008104	135	135	134	5974.18	3.63	1.11	.01
2.37	0	39	0	.00	5977.25	5977.25	9
600	0	599	0	20.1	110.93	131.07	14
.07	.00	15.29	.00	.000	1.4	5968.25	0

STATUS: Analyzing cross-section reach 13525.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5976.42
Right Overbank Elevation (ft, RBEL)	5976.42

13525.000	.000	.013	.000	1.79	5969.21	5970.44	.00
.012313	40	40	40	5973.57	4.36	.40	.22
2.40	0	35	0	.00	5976.42	5976.40	14
600	0	599	0	20.0	101.00	121.01	11
.07	.00	16.75	.00	.000	1.4	5967.42	0

STATUS: Analyzing cross-section reach 13405.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5975.43
 Right Overbank Elevation (ft, RBEL) 5975.43

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13405.000	.000	.013	.000	1.94	5968.37	5969.45	.00
.009533	116	120	123	5972.07	3.70	1.30	.20
2.51	0	38	0	.00	5975.43	5975.43	7
600	0	599	0	20.0	164.14	184.18	14
.08	.00	15.44	.00	.000	1.4	5966.43	0

STATUS: Analyzing cross-section reach 13280.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5974.39
 Right Overbank Elevation (ft, RBEL) 5974.40

13280.000	.000	.013	.000	2.00	5967.39	5968.41	.00
.008726	119	124	129	5970.88	3.49	1.13	.06
2.62	0	39	0	.00	5974.39	5974.40	7
600	0	599	0	20.1	175.49	195.56	14
.08	.00	15.00	.00	.000	1.5	5965.39	0

STATUS: Analyzing cross-section reach 13205.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5972.95
 Right Overbank Elevation (ft, RBEL) 5972.95

13205.000	.000	.013	.000	1.91	5965.86	5967.05	.00
.010815	78	75	73	5969.97	4.10	.73	.18
2.69	0	36	0	.00	5972.95	5972.95	10
600	0	599	0	19.3	209.67	228.97	14
.08	.00	16.25	.00	.000	1.5	5963.95	0

STATUS: Analyzing cross-section reach 13105.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5971.03
 Right Overbank Elevation (ft, RBEL) 5971.03

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13105.000	.000	.013	.000	1.73	5963.76	5965.09	.00
.013976	103	99	90	5968.54	4.78	1.22	.20
2.77	0	34	0	.00	5971.03	5971.03	8
600	0	599	0	19.7	188.36	208.03	14
.08	.00	17.55	.00	.000	1.6	5962.03	0

STATUS: Analyzing cross-section reach 13036.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5969.67
 Right Overbank Elevation (ft, RBEL) 5969.67

13036.000	.000	.013	.000	1.69	5962.29	5963.65	.00
.015823	72	69	67	5967.41	5.12	1.04	.10
2.82	0	33	0	.00	5969.67	5969.67	10
600	0	599	0	20.0	101.00	121.00	14
.08	.00	18.15	.00	.000	1.6	5960.60	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.71

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.75
 Right Overbank Elevation (ft, RBEL) 5964.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13000.000	.000	.013	.000	.73	5960.48	5961.57	.00
.046316	39	37	39	5966.27	5.79	.94	.20
2.85	0	31	0	.00	5964.70	5964.75	17
600	0	599	0	44.4	112.78	157.23	8
.08	.00	19.31	.00	.000	1.6	5959.75	0

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.13000/17150 SPRCRIT/HECSP4E3.DAT

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3		1				820	6017.73	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
		2	-1				-1	-6		

STATUS: Analyzing profile 2.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 17510.000.

STATUS: (3495) Overbank area assumed noneffective.

	Left Overbank Elevation (ft, XLBEL)						6021.51
	Right Overbank Elevation (ft, RBEL)						6021.51
17510.000	.000	.013	.000	4.22	6017.73	6018.95	6017.73
.005742	0	0	0	6021.58	3.85	.00	.00
.00	0	52	0	.00	6021.51	6021.50	0
820	0	820	0	18.7	107.67	126.34	10
.00	.00	15.75	.00	.000	.0	6013.51	0

STATUS: Analyzing cross-section reach 17383.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						6020.84
Right Overbank Elevation (ft, RBEL)						6020.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

17383.000	.000	.013	.000	4.21	6016.96	6018.19	.00
.005803	128	128	128	6020.84	3.88	.74	.00
.15	0	51	0	.00	6020.75	6020.75	6
820	0	820	0	18.6	107.69	126.31	11
.00	.00	15.82	.00	.000	.1	6012.75	0

STATUS: Analyzing cross-section reach 17375.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.42

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6018.75
 Right Overbank Elevation (ft, RBEL) 6018.75

17375.000	.000	.013	.000	3.54	6014.29	6016.19	.00
.011672	5	5	5	6020.80	6.51	.04	.00
.16	0	40	0	.00	6018.75	6018.75	7
820	0	819	0	16.6	108.69	125.31	11
.00	.00	20.47	.00	.000	.1	6010.75	0

STATUS: Analyzing cross-section reach 17178.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6017.50
 Right Overbank Elevation (ft, RBEL) 6017.50

17178.000	.000	.013	.000	3.75	6013.25	6014.94	.00
.009320	195	195	195	6018.77	5.51	2.04	.00
.35	0	43	0	.00	6017.50	6017.50	6
820	0	820	0	17.2	108.38	125.62	14
.01	.00	18.84	.00	.000	.1	6009.50	0

STATUS: Analyzing cross-section reach 17174.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6016.50
 Right Overbank Elevation (ft, RBEL) 6016.50

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17174.000	.000	.013	.000	3.51	6012.01	6013.97	.00
.012173	4	4	4	6018.72	6.71	.04	.00
.35	0	39	0	.00	6016.50	6016.50	7
820	0	819	0	16.5	108.74	125.26	11
.01	.00	20.79	.00	.000	.1	6008.50	0

STATUS: Analyzing cross-section reach 16928.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6014.95
 Right Overbank Elevation (ft, RBEL) 6014.95

16928.000	.000	.013	.000	3.76	6010.71	6012.39	.00
.009204	242	242	242	6016.17	5.46	2.55	.00
.58	0	43	0	.00	6014.95	6014.95	6
820	0	820	0	17.3	108.36	125.64	14
.01	.00	18.76	.00	.000	.2	6006.95	0

STATUS: Analyzing cross-section reach 16920.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6012.95
 Right Overbank Elevation (ft, RBEL) 6012.95

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

10/19/1998

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16920.000	.000	.013	.000	3.33	6008.28	6010.42	.00
.014943	8	8	8	6016.08	7.80	.09	.00
.59	0	36	0	.00	6012.95	6012.95	8
820	0	819	0	16.0	109.01	124.99	11
.01	.00	22.42	.00	.000	.2	6004.95	0

STATUS: Analyzing cross-section reach 16728.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6011.72
Right Overbank Elevation (ft, RBEL)	6011.72

16728.000	.000	.013	.000	3.58	6007.30	6009.16	.00
.011196	192	192	192	6013.61	6.31	2.47	.00
.76	0	40	0	.00	6011.72	6011.72	7
820	0	819	0	16.7	108.63	125.37	14
.01	.00	20.16	.00	.000	.3	6003.72	0

STATUS: Analyzing cross-section reach 16720.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	6009.72
Right Overbank Elevation (ft, RBEL)	6009.72

16720.000	.000	.013	.000	3.23	6004.95	6007.16	.00
.016940	8	8	8	6013.50	8.56	.11	.00
.77	0	34	0	.00	6009.72	6009.72	8
820	0	819	0	15.7	109.16	124.84	14
.01	.00	23.48	.00	.000	.3	6001.72	0

STATUS: Analyzing cross-section reach 16516.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6008.41
 Right Overbank Elevation (ft, RBEL) 6008.41

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16516.000	.000	.013	.000	3.51	6003.92	6005.85	.00
.012099	204	204	204	6010.60	6.68	2.90	.00
.94	0	39	0	.00	6008.41	6008.41	7
820	0	819	0	16.5	108.74	125.26	14
.01	.00	20.74	.00	.000	.4	6000.41	0

STATUS: Analyzing cross-section reach 16508.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6006.41
 Right Overbank Elevation (ft, RBEL) 6006.41

16508.000	.000	.013	.000	3.18	6001.59	6003.85	.00
.017860	8	8	8	6010.49	8.90	.12	.00
.95	0	34	0	.00	6006.41	6006.41	8
820	0	819	0	15.5	109.23	124.77	14
.01	.00	23.94	.00	.000	.4	5998.41	0

STATUS: Analyzing cross-section reach 16303.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6005.10
 Right Overbank Elevation (ft, RBEL) 6005.10

16303.000	.000	.013	.000	3.48	6000.58	6002.54	.00
.012545	205	205	250	6007.44	6.86	3.04	.00
1.12	0	39	0	.00	6005.10	6005.10	7
820	0	819	0	16.4	108.78	125.22	14
.02	.00	21.02	.00	.000	.5	5997.10	0

STATUS: Analyzing cross-section reach 16295.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6004.10
 Right Overbank Elevation (ft, RBEL) 6004.10

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16295.000	.000	.013	.000	3.31	5999.41	6001.54	.00
.015242	8	8	8	6007.33	7.92	.11	.00
1.13	0	36	0	.00	6004.10	6004.10	8
820	0	819	0	15.9	109.03	124.97	14
.02	.00	22.58	.00	.000	.5	5996.10	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .000

STATUS: Analyzing cross-section reach 16171.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6003.30
 Right Overbank Elevation (ft, RBEL) 6003.30

16171.000	.000	.013	.000	3.49	5998.79	6000.74	.00
.012448	125	125	125	6005.61	6.82	1.72	.00
1.23	0	39	0	.00	6003.30	6003.30	7
820	0	819	0	16.5	108.77	125.23	14
.02	.00	20.96	.00	.000	.5	5995.30	0

STATUS: Analyzing cross-section reach 16139.000.

STATUS: Water surface elevation set by X5 card, 6000.730 ft MSL.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .55

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16139.000	.000	.013	.000	3.95	5998.55	5998.59	.00
.003718	32	32	32	6000.59	2.04	.20	.00
1.28	0	71	0	.00	6002.60	6002.60	0
820	0	820	0	18.1	158.02	176.98	8
.02	.00	11.46	.00	.000	.5	5994.60	0

STATUS: Analyzing cross-section reach 16010.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.57

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)							6000.48
Right Overbank Elevation (ft, RBEL)							6000.48
16010.000	.000	.013	.000	2.91	5995.39	5996.52	.00
.009107	129	129	129	5999.31	3.92	.71	.56
1.46	0	51	0	.00	6000.48	6000.48	5
820	0	820	0	17.7	115.39	133.93	8
.02	.00	15.89	.00	.000	.6	5992.48	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 15978.000.

STATUS: Water surface elevation set by X5 card, 5995.750 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6000.37
 Right Overbank Elevation (ft, RBEL) 6000.37

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15978.000	.000	.013	.000	3.88	5995.75	5997.33	.00
.008083	32	32	32	6000.71	4.96	.27	.31
1.49	0	45	0	.00	6000.37	6000.37	0
820	0	820	0	17.6	108.93	126.57	14
.02	.00	17.88	.00	.000	.6	5991.87	0

STATUS: Analyzing cross-section reach 15800.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5998.95
 Right Overbank Elevation (ft, RBEL) 5998.95

15800.000	.000	.013	.000	3.88	5994.33	5995.91	.00
.008033	180	178	176	5999.26	4.93	1.44	.01
1.68	0	46	0	.00	5998.90	5998.95	10
820	0	820	0	17.7	106.89	124.59	11
.03	.00	17.83	.00	.000	.7	5990.45	0

STATUS: Analyzing cross-section reach 15600.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5997.35
 Right Overbank Elevation (ft, RBEL) 5997.35

15600.000	.000	.013	.000	3.89	5992.74	5994.29	.00
.007971	209	199	191	5997.66	4.92	1.60	.01
1.89	0	46	0	.00	5997.30	5997.35	6
820	0	820	0	17.6	106.79	124.43	11
.03	.00	17.80	.00	.000	.7	5988.85	0

STATUS: Analyzing cross-section reach 15400.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5995.75
 Right Overbank Elevation (ft, RBEL) 5995.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15400.000	.000	.013	.000	3.89	5991.14	5992.71	.00
.007989	206	200	194	5996.06	4.92	1.60	.00
2.10	0	46	0	.00	5995.75	5995.75	8
820	0	820	0	17.7	108.92	126.60	11
.03	.00	17.80	.00	.000	.8	5987.25	0

STATUS: Analyzing cross-section reach 15000.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5992.55
 Right Overbank Elevation (ft, RBEL) 5992.55

15000.000	.000	.013	.000	3.90	5987.95	5989.51	.00
.007975	400	400	400	5992.86	4.91	3.19	.00
2.53	0	46	0	.00	5992.55	5992.55	7
820	0	820	0	17.7	108.91	126.60	11
.04	.00	17.79	.00	.000	1.0	5984.05	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14650.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5990.16
 Right Overbank Elevation (ft, RBEL) 5990.16

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14650.000	.000	.013	.000	4.06	5985.72	5987.11	.00
.006649	350	350	350	5990.01	4.29	2.54	.31
2.91	0	49	0	.00	5990.16	5990.10	5
820	0	820	0	18.3	153.28	171.55	11
.04	.00	16.62	.00	.000	1.1	5981.66	0

STATUS: Analyzing cross-section reach 14606.000.

STATUS: Water surface elevation set by X5 card, 5987.420 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .62

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5989.28
 Right Overbank Elevation (ft, RBEL) 5989.28

14606.000	.000	.013	.000	3.91	5985.11	5985.15	.00
.002574	48	48	48	5987.10	1.98	.19	1.15
2.98	0	72	0	.00	5989.28	5989.28	0
820	0	820	0	18.9	216.81	235.73	8
.04	.00	11.30	.00	.000	1.2	5981.20	0

STATUS: Analyzing cross-section reach 14317.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.24

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5988.00
 Right Overbank Elevation (ft, RBEL) 5988.00

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

10/19/1998

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRISW	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

14317.000	.000	.013	.000	2.53	5979.70	5981.17	.00
.012935	302	302	302	5984.70	5.00	1.49	.91
3.39	0	45	0	.00	5988.00	5988.00	7
820	0	819	0	18.1	177.52	196.41	5
.05	.00	17.95	.00	.000	1.3	5977.17	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14285.000.

STATUS: Water surface elevation set by X5 card, 5978.780 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.92

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	.00
Right Encroachment Station (ft, STENCR)	191.36
Encroachment Method (TYPE)	1
Width or Percent Target	191.359

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5984.66
Right Overbank Elevation (ft, RBEL)	5984.66

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRISW	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT

14285.000	.000	.013	.000	2.18	5978.78	5981.63	.00
.047668	33	32	36	5996.13	17.35	.72	3.70
3.41	0	24	0	.00	5984.66	5984.66	0
820	0	819	0	14.5	166.10	180.61	17
.05	.00	33.42	.00	.000	1.3	5976.60	0

STATUS: Analyzing cross-section reach 14217.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5981.33
Right Overbank Elevation (ft, RBEL)	5981.33

14217.000	.000	.013	.000	2.18	5975.51	5978.35	.00
.047694	68	68	94	5992.84	17.33	3.28	.01
3.45	0	24	0	.00	5981.33	5981.33	15
820	0	819	0	14.5	110.73	125.27	17
.05	.00	33.41	.00	.000	1.3	5973.33	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 14193.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	.42
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STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)	5980.62
Right Overbank Elevation (ft, RBEL)	5980.62

14193.000	.000	.013	.000	2.70	5975.32	5978.06	.00
.023316	123	124	125	5987.64	12.32	3.70	1.50
3.56	0	48	0	.00	5980.62	5980.62	5
1370	0	1369	0	22.1	109.96	132.05	17
.05	.00	28.17	.00	.000	1.4	5972.62	0

STATUS: Analyzing cross-section reach 13706.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .69

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5977.42
 Right Overbank Elevation (ft, RBEL) 5977.42

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	RTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13706.000	.000	.013	.000	3.31	5972.73	5974.85	.00
.011221	392	385	380	5980.13	7.40	6.03	1.48
4.05	0	62	0	.00	5977.42	5977.42	7
1370	0	1369	0	23.9	109.04	132.96	17
.06	.00	21.83	.00	.000	1.6	5969.42	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 13570.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5977.25
 Right Overbank Elevation (ft, RBEL) 5977.25

13570.000	.000	.013	.000	3.51	5971.76	5973.78	.00
.009601	135	135	134	5978.54	6.79	1.41	.18
4.25	0	65	0	.00	5977.25	5977.25	8
1370	0	1369	0	23.4	109.32	132.68	14
.06	.00	20.91	.00	.000	1.6	5968.25	0

STATUS: Analyzing cross-section reach 13525.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5976.42
 Right Overbank Elevation (ft, RBEL) 5976.42

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13525.000	.000	.013	.000	3.14	5970.56	5972.68	.00
.011403	40	40	40	5977.95	7.39	.42	.18
4.31	0	62	0	.00	5976.42	5976.40	17
1370	0	1369	0	20.0	101.00	121.01	11
.06	.00	21.82	.00	.000	1.7	5967.42	0

STATUS: Analyzing cross-section reach 13405.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5975.43
 Right Overbank Elevation (ft, RBEL) 5975.43

13405.000	.000	.013	.000	3.28	5969.71	5971.67	.00
.009979	116	120	123	5976.48	6.77	1.28	.19
4.49	0	65	0	.00	5975.43	5975.43	9
1370	0	1369	0	20.1	164.12	184.20	14
.06	.00	20.88	.00	.000	1.7	5966.43	0

STATUS: Analyzing cross-section reach 13280.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5974.39
 Right Overbank Elevation (ft, RBEL) 5974.40

13280.000	.000	.013	.000	3.36	5968.75	5970.62	.00
.009264	119	124	129	5975.18	6.44	1.19	.10
4.68	0	67	0	.00	5974.39	5974.40	9
1370	0	1369	0	20.1	175.47	195.58	14
.06	.00	20.36	.00	.000	1.8	5965.39	0

STATUS: Analyzing cross-section reach 13205.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5972.95
 Right Overbank Elevation (ft, RBEL) 5972.95

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13205.000	.000	.013	.000	3.35	5967.30	5969.32	.00
.010213	78	75	73	5974.28	6.99	.73	.17
4.79	0	64	0	.00	5972.95	5972.95	13
1370	0	1369	0	19.3	209.65	228.99	14
.06	.00	21.21	.00	.000	1.8	5963.95	0

STATUS: Analyzing cross-section reach 13105.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5971.03
 Right Overbank Elevation (ft, RBEL) 5971.03

13105.000	.000	.013	.000	3.10	5965.13	5967.34	.00
.012207	103	99	90	5972.93	7.80	1.11	.24
4.93	0	61	0	.00	5971.03	5971.03	12
1370	0	1369	0	19.7	188.35	208.04	14
.06	.00	22.42	.00	.000	1.9	5962.03	0

STATUS: Analyzing cross-section reach 13036.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5969.67
 Right Overbank Elevation (ft, RBEL) 5969.67

13036.000	.000	.013	.000	3.00	5963.60	5965.88	.00
.013548	72	69	67	5971.89	8.28	.90	.14
5.03	0	59	0	.00	5969.67	5969.67	14
1370	0	1369	0	20.0	101.00	121.00	14
.07	.00	23.10	.00	.000	1.9	5960.60	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 13000.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.71

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5964.75
 Right Overbank Elevation (ft, RBEL) 5964.75

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13000.000	.000	.013	.000	1.25	5961.00	5962.81	.00
.039847	39	37	39	5970.67	9.67	.80	.42
5.08	0	54	0	.00	5964.70	5964.75	19
1370	0	1369	0	47.6	111.21	158.78	5
.07	.00	24.96	.00	.000	1.9	5959.75	0

T1 67.42167.08
 T2 PETERSON FIELD DRAINAGE BASIN LOMR
 T3 SECT.13000/17150 SPRCRIT/HECSP4E3.DAT

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		4		1				1470	6019.11	
J2	NPROF	IPLLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
		3	-1				-1	-6		

STATUS: Analyzing profile 3.

STATUS: Critical depth to be calculated at all cross-sections.

STATUS: Analyzing cross-section reach 17510.000.

10/19/1998

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6021.51
 Right Overbank Elevation (ft, RBEL) 6021.51

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17510.000	.000	.013	.000	5.60	6019.11	6020.75	6019.11
.005673	0	0	0	6024.27	5.16	.00	.00
.00	0	80	0	.00	6021.51	6021.50	0
1470	0	1470	0	22.8	105.60	128.41	10
.00	.00	18.22	.00	.000	.0	6013.51	0

STATUS: Analyzing cross-section reach 17383.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6020.84
 Right Overbank Elevation (ft, RBEL) 6020.75

17383.000	.000	.013	.000	5.58	6018.33	6020.00	.00
.005734	128	128	128	6023.53	5.20	.73	.00
.24	0	80	0	.00	6020.75	6020.75	6
1470	0	1470	0	22.8	105.62	128.38	11
.00	.00	18.30	.00	.000	.1	6012.75	0

STATUS: Analyzing cross-section reach 17375.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6018.75
 Right Overbank Elevation (ft, RBEL) 6018.75

17375.000	.000	.013	.000	4.90	6015.65	6018.00	.00
.009972	5	5	5	6023.50	7.85	.04	.00
.25	0	65	0	.00	6018.75	6018.75	7
1470	0	1469	0	20.7	106.65	127.35	11
.00	.00	22.48	.00	.000	.1	6010.75	0

STATUS: Analyzing cross-section reach 17178.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6017.50
 Right Overbank Elevation (ft, RBEL) 6017.50

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17178.000	.000	.013	.000	5.06	6014.56	6016.75	.00
.008731	195	195	195	6021.67	7.11	1.82	.00
.55	0	68	0	.00	6017.50	6017.50	6
1470	0	1469	0	21.2	106.41	127.59	14
.00	.00	21.40	.00	.000	.2	6009.50	0

STATUS: Analyzing cross-section reach 17174.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6016.50
 Right Overbank Elevation (ft, RBEL) 6016.50

17174.000	.000	.013	.000	4.81	6013.31	6015.78	.00
.010790	4	4	4	6021.63	8.32	.04	.00
.55	0	63	0	.00	6016.50	6016.50	7
1470	0	1470	0	20.4	106.79	127.21	11
.00	.00	23.15	.00	.000	.2	6008.50	0

STATUS: Analyzing cross-section reach 16928.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6014.95
 Right Overbank Elevation (ft, RBEL) 6014.95

16928.000	.000	.013	.000	5.03	6011.98	6014.19	.00
.009005	242	242	242	6019.25	7.27	2.38	.00
.92	0	67	0	.00	6014.95	6014.95	6
1470	0	1470	0	21.1	106.47	127.53	14
.01	.00	21.64	.00	.000	.3	6006.95	0

STATUS: Analyzing cross-section reach 16920.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6012.95
 Right Overbank Elevation (ft, RBEL) 6012.95

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16920.000	.000	.013	.000	4.58	6009.53	6012.23	.00
.013142	8	8	8	6019.17	9.63	.09	.00
.93	0	59	0	.00	6012.95	6012.95	8
1470	0	1469	0	19.8	107.12	126.88	11
.01	.00	24.91	.00	.000	.3	6004.95	0

STATUS: Analyzing cross-section reach 16728.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6011.72
 Right Overbank Elevation (ft, RBEL) 6011.72

16728.000	.000	.013	.000	4.80	6008.52	6010.96	.00
.010854	192	192	192	6016.88	8.36	2.29	.00
1.20	0	63	0	.00	6011.72	6011.72	7
1470	0	1469	0	20.4	106.80	127.20	14
.01	.00	23.20	.00	.000	.4	6003.72	0

STATUS: Analyzing cross-section reach 16720.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6009.72
 Right Overbank Elevation (ft, RBEL) 6009.72

PROJECT TITLE : PETERSON FIELD DRAINAGE BASIN LOMR

PROJECT NUMBER : 67.42167.08

10/19/1998

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16720.000	.000	.013	.000	4.44	6006.16	6008.96	.00
.014986	8	8	8	6016.78	10.62	.10	.00
1.21	0	56	0	.00	6009.72	6009.72	8
1470	0	1469	0	19.3	107.34	126.66	14
.01	.00	26.15	.00	.000	.4	6001.72	0

STATUS: Analyzing cross-section reach 16516.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						6008.41	
Right Overbank Elevation (ft, RBEL)						6008.41	
16516.000	.000	.013	.000	4.70	6005.11	6007.66	.00
.011909	204	204	204	6014.06	8.95	2.72	.00
1.49	0	61	0	.00	6008.41	6008.41	7
1470	0	1469	0	20.1	106.96	127.04	14
.01	.00	24.01	.00	.000	.5	6000.41	0

STATUS: Analyzing cross-section reach 16508.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						6006.41	
Right Overbank Elevation (ft, RBEL)						6006.41	
16508.000	.000	.013	.000	4.36	6002.77	6005.66	.00
.016062	8	8	8	6013.95	11.18	.11	.00
1.50	0	54	0	.00	6006.41	6006.41	8
1470	0	1469	0	19.1	107.45	126.55	14
.01	.00	26.83	.00	.000	.5	5998.41	0

STATUS: Analyzing cross-section reach 16303.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6005.10
 Right Overbank Elevation (ft, RBEL) 6005.10

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16303.000	.000	.013	.000	4.64	6001.74	6004.35	.00
.012557	205	205	250	6011.05	9.31	2.90	.00
1.77	0	60	0	.00	6005.10	6005.10	7
1470	0	1469	0	19.9	107.05	126.95	14
.01	.00	24.49	.00	.000	.6	5997.10	0

STATUS: Analyzing cross-section reach 16295.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6004.10
 Right Overbank Elevation (ft, RBEL) 6004.10

16295.000	.000	.013	.000	4.47	6000.57	6003.35	.00
.014514	8	8	8	6010.94	10.37	.11	.00
1.78	0	56	0	.00	6004.10	6004.10	8
1470	0	1469	0	19.4	107.29	126.71	14
.02	.00	25.84	.00	.000	.6	5996.10	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .000

STATUS: Analyzing cross-section reach 16171.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6003.30
 Right Overbank Elevation (ft, RBEL) 6003.30

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16171.000	.000	.013	.000	4.63	5999.93	6002.55	.00
.012578	125	125	125	6009.26	9.32	1.69	.00
1.95	0	59	0	.00	6003.30	6003.30	8
1470	0	1469	0	19.9	107.05	126.95	14
.02	.00	24.50	.00	.000	.6	5995.30	0

STATUS: Analyzing cross-section reach 16139.000.

STATUS: Water surface elevation set by X5 card, 6004.010 ft MSL.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .58

16139.000	.000	.013	.000	5.81	6000.41	6000.47	.00
.004297	32	32	32	6003.44	3.03	.22	.00
2.01	0	105	0	.00	6002.60	6002.60	0
1470	0	1470	0	18.1	158.02	176.98	11
.02	.00	13.97	.00	.000	.6	5994.60	0

STATUS: Analyzing cross-section reach 16010.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6000.48
 Right Overbank Elevation (ft, RBEL) 6000.48

16010.000	.000	.013	.000	4.63	5997.11	5998.44	.00
.008282	129	129	129	6002.10	4.99	.75	.59
2.28	0	81	0	.00	6000.48	6000.48	5
1470	0	1470	0	17.7	115.38	133.94	8
.02	.00	17.93	.00	.000	.7	5992.48	0

Contraction Coefficient (CCHV) .300
 Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 15978.000.

STATUS: Water surface elevation set by X5 card, 5997.030 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 6000.37
 Right Overbank Elevation (ft, RBEL) 6000.37

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15978.000	.000	.013	.000	5.16	5997.03	5999.11	.00
.008022	32	32	32	6003.70	6.67	.26	.50
2.34	0	70	0	.00	6000.37	6000.37	0
1470	0	1470	0	21.5	107.01	128.50	14
.02	.00	20.73	.00	.000	.7	5991.87	0

STATUS: Analyzing cross-section reach 15800.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5998.95
 Right Overbank Elevation (ft, RBEL) 5998.95

15800.000	.000	.013	.000	5.15	5995.60	5997.72	.00
.008028	180	178	176	6002.27	6.67	1.43	.00
2.63	0	70	0	.00	5998.90	5998.95	12
1470	0	1470	0	21.5	104.97	126.51	11
.02	.00	20.72	.00	.000	.8	5990.45	0

STATUS: Analyzing cross-section reach 15600.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5997.35
 Right Overbank Elevation (ft, RBEL) 5997.35

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15600.000	.000	.013	.000	5.15	5994.00	5996.11	.00
.007997	209	199	191	6000.67	6.67	1.60	.00
2.95	0	70	0	.00	5997.30	5997.35	12
1470	.0	1470	0	21.4	104.90	126.33	11
.02	.00	20.73	.00	.000	.9	5988.85	0

STATUS: Analyzing cross-section reach 15400.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						5995.75	
Right Overbank Elevation (ft, RBEL)						5995.75	
15400.000	.000	.013	.000	5.15	5992.40	5994.52	.00
.008003	206	200	194	5999.07	6.66	1.60	.00
3.28	0	70	0	.00	5995.75	5995.75	12
1470	0	1470	0	21.5	107.01	128.50	11
.03	.00	20.71	.00	.000	1.0	5987.25	0

STATUS: Analyzing cross-section reach 15000.000.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL)						5992.55	
Right Overbank Elevation (ft, RBEL)						5992.55	
15000.000	.000	.013	.000	5.18	5989.23	5991.32	.00
.007956	400	400	400	5995.86	6.63	3.19	.01
3.93	0	71	0	.00	5992.55	5992.55	7
1470	0	1470	0	21.5	107.00	128.51	11
.03	.00	20.67	.00	.000	1.2	5984.05	0

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 14650.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5990.16
 Right Overbank Elevation (ft, RBEL) 5990.16

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14650.000	.000	.013	.000	5.35	5987.01	5988.92	.00
.006831	350	350	350	5992.92	5.91	2.58	.36
4.52	0	75	0	.00	5990.16	5990.10	5
1470	0	1470	0	22.1	151.35	173.49	11
.04	.00	19.52	.00	.000	1.4	5981.66	0

STATUS: Analyzing cross-section reach 14606.000.

STATUS: Water surface elevation set by X5 card, 5990.710 ft MSL.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .63

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 5989.28
 Right Overbank Elevation (ft, RBEL) 5989.28

14606.000	.000	.013	.000	5.73	5986.93	5986.98	.00
.002695	48	48	48	5989.86	2.94	.20	1.49
4.62	0	106	0	.00	5989.28	5989.28	0
1470	0	1470	0	18.9	216.80	235.74	8
.04	.00	13.75	.00	.000	1.4	5981.20	0

STATUS: Analyzing cross-section reach 14317.000.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.02