

905	.	.	.	
	.	.	.	M2
910	.	.	.	.
	.	.	14C	.
913	.	.	.	.
	14	.	.	.
	V	.	.	.
916	.	.	.	.
	14-15	.	.	.
919	.	.	.	.
	.	M5	.	.
924	.	.	.	.
	.	.	P1	.
929	.	.	.	.
	15	.	.	.
	V	.	.	.
932	.	.	.	.
	15-16	.	.	.
935	.	.	.	.
	.	M3	.	.
	.	V	.	.
940	.	.	.	.
	.	M3-16	.	.
	.	.	.	.
943	.	.	.	.
	.	.	M4	.
	.	.	V	.
948	.	.	.	.
	.	.	M4-168	.
951	.	.	.	.
	.	.	.	M6
956	.	.	.	.
	.	.	168	.
959	.	.	.	.
	.	.	.	P2
	.	.	.	V
964	.	.	.	.
	.	.	P2-16C	.
967	.	.	.	.
	.	.	.	P3
972	.	.	.	.
	.	.	16C	.
	.	.	.	.

975	16.	.....		
	V			
978	16-17			
	.			
981	.	T2		
	.	V		
986	.	V		
	.	T2-17A		
	.	.		
989	.	.	T3	
	.	.	.	
994	.	17A.	.....	
	.	V		
997	.	V		
	.	17A-17		
	.	.		
1000	.	.	T1A	
	.	.	.	
1005	.	.	.	S1
	.	.	.	.
1010	.	.	.	S2
	.	.	.	.
1015	17.	.....		
	V			
1018	17-18			
	.			
1021	.	T4A		
	.	V		
1026	.	V		
	.	T4A18A		
	.	.		
1029	.	.	T1B	
	.	.	.	
1034	.	18A.	.....	
	.	.		
1037	.	.	S3	
	.	.	.	
1042	18.	.....		
	V			
1045	18-19			
	.			

1048	.	Q1	
	.	V	
	.	V	
1053	.	Q1-19A	
	.	.	
1056	.	.	Q2
	.	.	.
1061	.	19A.....	
	.	.	
1064	.	.	Q3
	.	.	.
1069	.	19B.....	
	.	V	
	.	V	
1072	.	19B19C	
	.	.	
1075	.	.	Q4
	.	.	.
1080	.	19C.....	
	.	.	
1083	.	.	Q5
	.	.	.
1088	.	19D.....	
	.	V	
	.	V	
1091	.	19D19E	
	.	.	
1094	.	.	Q6
	.	.	.
1099	.	19E.....	
	.	V	
	.	V	
1102	.	19E19F	
	.	.	
1105	.	.	Q7
	.	.	.
1110	.	19F.....	
	.	.	
1113	.	.	T4B
	.	.	V
	.	.	V
1118	.	.	T4B19G

1121	.	.	.	W1
	.	.	.	.
1126	.	.	196.....	.
	.	.	.	.
1129	.	.	.	Q8
	.	.	.	.
1134	19	.....	.	.
	V			
1137	19-20			
	.			
1140	.	W2		
	.	.		
1145	20	.....		
	V			
1148	20-21			
	.			
1151	.	W3		
	.	.		
1156	21	.....		
	.			
1159	.	V2		

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

COTTONWOOD CREEK DBPS URS PROJECT NO. 49209
 RECOMMENDED PLAN FOR THE BASIN - INPUT FILE CDT9.IMP
 USING THE 100 YEAR 24 HOUR STORM IN NEW CRITERIA
 RUN DATE 7-31-92 - REVISED TO MOVE POND @ 12CP

6 10

OUTPUT CONTROL VARIABLES

IPRNT	5	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

17

HYDROGRAPH TIME DATA

NNMIN	5	MINUTES IN COMPUTATION INTERVAL
IDATE	1SEP89	STARTING DATE

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 24.92 HOURS

[illegible]

[illegible]

[illegible]

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
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 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 1

RUNOFF SUMMARY
 FLOW IN CUBIC FEET PER SECOND
 TIME IN HOURS, AREA IN SQUARE MILES

	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT									
+		A1	61.	6.33	12.	4.	4.	.19		
+	ROUTED TO									
+		1-2	60.	6.42	12.	4.	4.	.19		
+	HYDROGRAPH AT									
+		A3	56.	6.25	10.	4.	3.	.16		
+	2 COMBINED AT									
+		2	114.	6.33	22.	8.	8.	.35		
+	ROUTED TO									
+		2-3	111.	6.42	22.	8.	7.	.35		
+	HYDROGRAPH AT									
+		A2	74.	6.25	13.	5.	5.	.21		
+	HYDROGRAPH AT									
+		A4	98.	6.25	16.	6.	5.	.25		

+	HYDROGRAPH AT	A5	76.	6.25	13.	5.	5.	.21		
+	4 COMBINED AT	3	335.	6.33	65.	23.	22.	1.02		
+	ROUTED TO	3-4	333.	6.42	65.	23.	22.	1.02		
+	HYDROGRAPH AT	A8	80.	6.33	15.	5.	5.	.24		
+	HYDROGRAPH AT	A9	75.	6.25	13.	4.	4.	.20		
+	3 COMBINED AT	4	467.	6.42	93.	33.	31.	1.46		
+	ROUTED TO	4-5	466.	6.42	93.	33.	32.	1.46		
+	HYDROGRAPH AT	A6	52.	6.25	9.	3.	3.	.14		
+	HYDROGRAPH AT	A7	48.	6.25	9.	3.	3.	.14		
+	2 COMBINED AT	5A	101.	6.25	18.	6.	6.	.28		
+	ROUTED TO	5A-5	99.	6.42	18.	6.	6.	.28		
+	HYDROGRAPH AT	A10	58.	6.25	11.	4.	4.	.17		
+	HYDROGRAPH AT	A11	48.	6.17	8.	3.	3.	.12		
+	HYDROGRAPH AT	A12	89.	6.17	13.	4.	4.	.12		
+	HYDROGRAPH AT	A13	57.	6.25	10.	4.	3.	.16		
+	HYDROGRAPH AT	B1	119.	6.17	18.	6.	6.	.19		
+	7 COMBINED AT	5	870.	6.33	170.	59.	57.	2.50		
+	ROUTED TO	5P	90.	8.50	87.	56.	54.	2.50	6625.53	8.50

+	ROUTED TO	5-6	90.	8.75	87.	55.	53.	2.50
+	HYDROGRAPH AT	B2	140.	6.17	18.	6.	6.	.11
+	ROUTED TO	B2-6A	137.	6.17	18.	6.	5.	.11
+	HYDROGRAPH AT	B6	302.	6.08	35.	11.	10.	.18
+	2 COMBINED AT	6A	417.	6.08	53.	16.	16.	.29
+	HYDROGRAPH AT	B3	161.	6.17	21.	7.	6.	.15
+	HYDROGRAPH AT	B4	106.	6.17	14.	5.	4.	.10
+	4 COMBINED AT	6	673.	6.17	160.	82.	79.	3.04
+	ROUTED TO	6-7	618.	6.25	157.	81.	78.	3.04
+	HYDROGRAPH AT	B8	271.	6.17	36.	11.	10.	.16
+	2 COMBINED AT	7	854.	6.25	190.	92.	89.	3.20
+	ROUTED TO	7-8	826.	6.25	188.	91.	88.	3.20
+	HYDROGRAPH AT	C2	75.	6.17	11.	4.	4.	.15
+	ROUTED TO	C2-8A	70.	6.25	11.	4.	4.	.15
+	HYDROGRAPH AT	C3	113.	6.17	16.	5.	5.	.16
+	2 COMBINED AT	8A	179.	6.25	27.	9.	9.	.32
+	ROUTED TO	8A-8B	171.	6.33	28.	9.	9.	.32
+	HYDROGRAPH AT	C4	179.	6.17	26.	9.	8.	.22
+	ROUTED TO	C4-8B	179.	6.25	26.	9.	8.	.22

+	HYDROGRAPH AT	C7	238.	6.17	32.	10.	9.	.16
+	3 COMBINED AT	88	552.	6.17	86.	28.	27.	.70
+	HYDROGRAPH AT	C1	122.	6.17	17.	6.	5.	.17
+	HYDROGRAPH AT	C13	111.	6.17	15.	5.	5.	.13
+	2 COMBINED AT	8C	233.	6.17	32.	10.	10.	.29
+	ROUTED TO	8C-8D	224.	6.33	33.	11.	10.	.29
+	HYDROGRAPH AT	C6	106.	6.33	20.	6.	6.	.11
+	2 COMBINED AT	8D	330.	6.33	53.	17.	16.	.40
+	2 COMBINED AT	8E	861.	6.25	139.	45.	43.	1.09
+	ROUTED TO	8E-8G	857.	6.33	139.	45.	43.	1.09
+	HYDROGRAPH AT	C5	127.	6.33	23.	8.	7.	.23
+	ROUTED TO	C5-8F	113.	6.50	23.	8.	7.	.23
+	HYDROGRAPH AT	C8	231.	6.17	31.	10.	9.	.17
+	2 COMBINED AT	8F	246.	6.25	54.	17.	17.	.40
+	HYDROGRAPH AT	C9	250.	6.17	36.	11.	11.	.21
+	HYDROGRAPH AT	C10	116.	6.25	18.	6.	5.	.11
+	HYDROGRAPH AT	C11	180.	6.17	25.	8.	7.	.13
+	5 COMBINED AT	8G	1632.	6.25	272.	87.	84.	1.93
	ROUTED TO							

+		C12	180.	6.08	22.	7.	7.	.11
+	HYDROGRAPH AT	D1	289.	6.08	36.	11.	11.	.17
+	HYDROGRAPH AT	D2	357.	6.08	44.	13.	13.	.20
+	5 COMBINED AT	9	2332.	6.25	640.	265.	256.	6.65
+	ROUTED TO	9-10	2274.	6.33	641.	265.	255.	6.65
+	HYDROGRAPH AT	C19	134.	6.25	21.	6.	6.	.11
+	HYDROGRAPH AT	D4	248.	6.08	28.	9.	8.	.12
+	3 COMBINED AT	10	2531.	6.25	688.	280.	270.	6.88
+	ROUTED TO	10-11	2501.	6.33	687.	280.	270.	6.88
+	HYDROGRAPH AT	E1	89.	6.17	13.	4.	4.	.09
+	ROUTED TO	E1-11A	87.	6.33	13.	4.	4.	.09
+	HYDROGRAPH AT	E3	274.	6.08	35.	11.	10.	.15
+	2 COMBINED AT	11A	335.	6.17	48.	15.	14.	.24
+	ROUTED TO	11A11B	329.	6.25	48.	15.	14.	.24
+	HYDROGRAPH AT	E5	218.	6.17	29.	9.	8.	.13
+	2 COMBINED AT	11B	539.	6.17	77.	24.	23.	.37
+	HYDROGRAPH AT	E2	198.	6.08	24.	7.	7.	.09
+	ROUTED TO	E2-11C	197.	6.17	25.	7.	7.	.09
+	HYDROGRAPH AT	E4	176.	6.25	28.	9.	8.	.15

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+		C20	148.	6.17	21.	7.	6.	.11		
+	2 COMBINED AT	11G	310.	6.25	44.	14.	13.	.25		
+	3 COMBINED AT	11	3008.	6.25	855.	368.	354.	8.33		
+	ROUTED TO	11-12	3003.	6.33	856.	368.	354.	8.33		
+	HYDROGRAPH AT	G1	289.	6.08	37.	11.	11.	.18		
+	ROUTED TO	G1-12A	288.	6.17	37.	11.	11.	.18		
+	HYDROGRAPH AT	G3	267.	6.08	32.	10.	10.	.18		
+	2 COMBINED AT	12A	541.	6.17	70.	21.	21.	.36		
+	HYDROGRAPH AT	G2	159.	6.17	21.	6.	6.	.11		
+	ROUTED TO	G2-12B	158.	6.17	21.	6.	6.	.11		
+	HYDROGRAPH AT	G4	272.	6.08	33.	10.	9.	.13		
+	3 COMBINED AT	12B	947.	6.17	123.	38.	36.	.60		
+	ROUTED TO	12B12C	947.	6.17	123.	38.	36.	.60		
+	HYDROGRAPH AT	G5	169.	6.08	19.	6.	6.	.12		
+	HYDROGRAPH AT	G6	195.	6.17	26.	8.	8.	.14		
+	3 COMBINED AT	12C	1289.	6.17	169.	52.	50.	.86		
+	ROUTED TO	12CP	252.	6.75	110.	52.	50.	.86		
+									6737.02	6.75
+	ROUTED TO	12CP12	250.	6.75	110.	52.	50.	.86		
+	HYDROGRAPH AT	D3	321.	6.08	39.	11.	11.	.13		

+	ROUTED TO	D3-12D	315.	6.08	39.	11.	11.	.13
+	HYDROGRAPH AT	D5	284.	6.08	38.	11.	11.	.13
+	2 COMBINED AT	12D	600.	6.08	76.	23.	22.	.25
+	HYDROGRAPH AT	F1	220.	6.17	29.	9.	9.	.14
+	HYDROGRAPH AT	G7	272.	6.08	34.	11.	10.	.17
+	HYDROGRAPH AT	G8	154.	6.08	17.	5.	5.	.08
+	HYDROGRAPH AT	H21	194.	6.08	24.	7.	7.	.08
+	7 COMBINED AT	12	4026.	6.25	1131.	474.	456.	9.92
+	ROUTED TO	12-13	4019.	6.25	1133.	473.	456.	9.92
+	HYDROGRAPH AT	H5	813.	6.08	98.	29.	28.	.36
+	ROUTED TO	H5-138	794.	6.08	98.	29.	28.	.36
+	HYDROGRAPH AT	H6	413.	6.08	55.	16.	16.	.21
+	ROUTED TO	H6-138	413.	6.17	55.	16.	16.	.21
+	HYDROGRAPH AT	H7	271.	6.08	32.	10.	9.	.14
+	3 COMBINED AT	138	1454.	6.08	185.	55.	53.	.72
+	ROUTED TO	13813C	1435.	6.17	186.	56.	54.	.72
+	HYDROGRAPH AT	H8	202.	6.08	24.	7.	7.	.13
+	2 COMBINED AT	13C	1625.	6.17	211.	63.	61.	.84
	HYDROGRAPH AT							

+		H2	226.	6.08	27.	8.	8.	.11
+	ROUTED TO							
+		H2-13D	219.	6.17	27.	8.	8.	.11
+	HYDROGRAPH AT							
+		H1	364.	6.08	42.	13.	12.	.17
+	2 COMBINED AT							
+		13D	579.	6.08	69.	21.	20.	.28
+	ROUTED TO							
+		13D13E	558.	6.17	69.	21.	20.	.28
+	HYDROGRAPH AT							
+		H4	204.	6.08	24.	7.	7.	.13
+	2 COMBINED AT							
+		13E	752.	6.08	93.	28.	27.	.40
+	HYDROGRAPH AT							
+		H16	197.	6.08	23.	7.	7.	.11
+	HYDROGRAPH AT							
+		H17	178.	6.08	20.	6.	6.	.10
+	2 COMBINED AT							
+		13F	375.	6.08	43.	13.	13.	.21
+	ROUTED TO							
+		13F13G	365.	6.17	43.	13.	13.	.21
+	HYDROGRAPH AT							
+		H18	294.	6.08	33.	10.	10.	.17
+	2 COMBINED AT							
+		13G	642.	6.08	77.	24.	23.	.38
+	HYDROGRAPH AT							
+		H3	199.	6.17	27.	8.	8.	.14
+	4 COMBINED AT							
+		13H	3186.	6.17	407.	123.	119.	1.77
+	ROUTED TO							
+		13H13I	3182.	6.17	408.	123.	119.	1.77
+	HYDROGRAPH AT							
+		H9	267.	6.08	33.	10.	10.	.17
+	2 COMBINED AT							
+		13I	3438.	6.17	440.	133.	129.	1.94
+	ROUTED TO							
+		13I13J	3411.	6.17	442.	134.	129.	1.94

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+		130	2414.	6.50	618.	203.	196.	2.93
+	HYDROGRAPH AT	K1	298.	6.17	40.	12.	12.	.17
+	HYDROGRAPH AT	K2	363.	6.08	43.	13.	12.	.19
+	2 COMBINED AT	13P	653.	6.08	83.	25.	24.	.36
+	ROUTED TO	13P13Q	643.	6.17	83.	25.	24.	.36
+	HYDROGRAPH AT	K3	191.	6.08	22.	7.	6.	.10
+	HYDROGRAPH AT	K4	256.	6.08	34.	10.	10.	.15
+	3 COMBINED AT	13Q	1066.	6.17	139.	42.	41.	.60
+	ROUTED TO	13Q13R	1059.	6.17	139.	42.	41.	.60
+	HYDROGRAPH AT	J1	273.	6.17	39.	12.	12.	.21
+	ROUTED TO	J1-13S	265.	6.25	39.	12.	12.	.21
+	HYDROGRAPH AT	J2	161.	6.17	22.	7.	6.	.09
+	2 COMBINED AT	13S	425.	6.17	61.	19.	18.	.30
+	HYDROGRAPH AT	H22	389.	6.08	47.	14.	13.	.18
+	HYDROGRAPH AT	J3	294.	6.08	35.	10.	10.	.13
+	6 COMBINED AT	13	7844.	6.25	2020.	762.	734.	14.06
+	ROUTED TO	13-14	7792.	6.33	2022.	761.	733.	14.06
+	HYDROGRAPH AT	L1	248.	6.08	30.	9.	9.	.14
+	ROUTED TO	L1-14A	243.	6.08	30.	9.	9.	.14

+	HYDROGRAPH AT	L2	137.	6.17	21.	7.	6.	.15
+	2 COMBINED AT	14A	371.	6.17	50.	16.	15.	.29
+	HYDROGRAPH AT	01	211.	6.08	26.	8.	8.	.11
+	ROUTED TO	01-14B	207.	6.17	26.	8.	8.	.11
+	HYDROGRAPH AT	02	225.	6.08	29.	9.	8.	.12
+	2 COMBINED AT	14B	426.	6.17	55.	17.	16.	.23
+	2 COMBINED AT	14AB	798.	6.17	106.	32.	31.	.53
+	HYDROGRAPH AT	M1	205.	6.08	24.	7.	7.	.09
+	ROUTED TO	M1-14C	202.	6.08	24.	7.	7.	.09
+	HYDROGRAPH AT	M2	310.	6.08	38.	12.	11.	.20
+	2 COMBINED AT	14C	513.	6.08	62.	19.	18.	.30
+	3 COMBINED AT	14	8598.	6.33	2184.	812.	783.	14.88
+	ROUTED TO	14-15	8595.	6.33	2183.	812.	782.	14.88
+	HYDROGRAPH AT	M5	136.	6.08	16.	5.	5.	.10
+	HYDROGRAPH AT	P1	207.	6.08	27.	8.	8.	.12
+	3 COMBINED AT	15	8790.	6.33	2224.	825.	795.	15.10
+	ROUTED TO	15-16	8730.	6.33	2227.	825.	795.	15.10
+	HYDROGRAPH AT	M3	242.	6.17	32.	10.	9.	.16
+	ROUTED TO	M3-16	242.	6.17	32.	10.	9.	.16

+	HYDROGRAPH AT	M4	252.	6.17	32.	10.	10.	.23
+	ROUTED TO	M4-16B	250.	6.17	32.	10.	10.	.23
+	HYDROGRAPH AT	M6	158.	6.08	19.	6.	6.	.10
+	2 COMBINED AT	16B	395.	6.17	51.	16.	15.	.33
+	HYDROGRAPH AT	P2	88.	6.17	12.	4.	4.	.08
+	ROUTED TO	P2-16C	86.	6.17	12.	4.	4.	.08
+	HYDROGRAPH AT	P3	282.	6.17	37.	12.	11.	.20
+	2 COMBINED AT	16C	368.	6.17	49.	15.	15.	.28
+	4 COMBINED AT	16	9416.	6.33	2355.	866.	835.	15.88
+	ROUTED TO	16-17	9282.	6.33	2354.	866.	834.	15.88
+	HYDROGRAPH AT	T2	186.	6.08	21.	7.	6.	.16
+	ROUTED TO	T2-17A	166.	6.25	21.	7.	6.	.16
+	HYDROGRAPH AT	T3	161.	6.08	19.	6.	6.	.12
+	2 COMBINED AT	17A	312.	6.17	40.	13.	12.	.28
+	ROUTED TO	17A-17	310.	6.25	40.	13.	12.	.28
+	HYDROGRAPH AT	T1A	162.	6.08	18.	6.	5.	.09
+	HYDROGRAPH AT	S1	205.	6.08	23.	7.	7.	.13
+	HYDROGRAPH AT	S2	221.	6.08	28.	8.	8.	.13
	5 COMBINED AT							

+		17	9837.	6.33	2456.	900.	867.	16.51
+	ROUTED TO	17-18	9670.	6.33	2458.	900.	867.	16.51
+	HYDROGRAPH AT	T4A	155.	6.08	19.	6.	6.	.09
+	ROUTED TO	T4A18A	152.	6.08	19.	6.	6.	.09
+	HYDROGRAPH AT	T1B	165.	6.08	20.	6.	6.	.13
+	2 COMBINED AT	18A	317.	6.08	39.	12.	12.	.22
+	HYDROGRAPH AT	S3	260.	6.08	33.	10.	10.	.18
+	3 COMBINED AT	18	10000.	6.33	2524.	922.	888.	16.91
+	ROUTED TO	18-19	9925.	6.42	2525.	922.	888.	16.91
+	HYDROGRAPH AT	Q1	165.	6.08	19.	6.	6.	.10
+	ROUTED TO	Q1-19A	161.	6.08	19.	6.	6.	.10
+	HYDROGRAPH AT	Q2	240.	6.17	32.	10.	10.	.20
+	2 COMBINED AT	19A	390.	6.17	51.	16.	15.	.30
+	HYDROGRAPH AT	Q3	104.	6.17	14.	4.	4.	.08
+	2 COMBINED AT	19B	495.	6.17	65.	20.	20.	.38
+	ROUTED TO	19B19C	491.	6.17	65.	20.	20.	.38
+	HYDROGRAPH AT	Q4	246.	6.08	31.	9.	9.	.13
+	2 COMBINED AT	19C	726.	6.17	96.	30.	28.	.51
+	HYDROGRAPH AT	Q5	167.	6.17	21.	7.	7.	.15

+	2 COMBINED AT	19D	893.	6.17	117.	36.	35.	.66
+	ROUTED TO	19D19E	880.	6.17	118.	37.	35.	.66
+	HYDROGRAPH AT	Q6	436.	6.08	53.	16.	15.	.21
+	2 COMBINED AT	19E	1285.	6.17	171.	52.	51.	.87
+	ROUTED TO	19E19F	1270.	6.17	171.	53.	51.	.87
+	HYDROGRAPH AT	Q7	311.	6.08	37.	11.	11.	.18
+	2 COMBINED AT	19F	1560.	6.17	208.	64.	62.	1.05
+	HYDROGRAPH AT	T4B	148.	6.08	18.	5.	5.	.08
+	ROUTED TO	T4B19G	143.	6.08	18.	5.	5.	.08
+	HYDROGRAPH AT	W1	385.	6.08	43.	13.	13.	.21
+	2 COMBINED AT	19G	528.	6.08	61.	19.	18.	.28
+	HYDROGRAPH AT	Q8	136.	6.08	16.	5.	5.	.08
+	4 COMBINED AT	19	11127.	6.33	2794.	1009.	972.	18.33
+	ROUTED TO	19-20	11018.	6.42	2793.	1009.	972.	18.33
+	HYDROGRAPH AT	W2	265.	6.08	32.	10.	9.	.13
+	2 COMBINED AT	20	11112.	6.42	2823.	1019.	981.	18.46
+	ROUTED TO	20-21	11105.	6.42	2821.	1018.	981.	18.46
+	HYDROGRAPH AT	W3	268.	6.08	32.	9.	9.	.10
+	2 COMBINED AT	21	11173.	6.42	2848.	1028.	990.	18.56

HYDROGRAPH AT
+ V2 343. 6.08 43. 13. 12. .14

*** NORMAL END OF HEC-1 ***

**COTTONWOOD CREEK
DRAINAGE BASIN PLANNING STUDY
AUGUST 24, 1992
HEC-1 COMPUTER PRINTOUTS
PINE CREEK BASIN**

1

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1	ID SOUTH PINE CREEK DBPS 1-15-92 URS PROJECT NO. 49209
2	ID RECOMMENDED RUN FOR THE BASIN - INPUT FILE PDT3.INP
3	ID USING THE 100 YEAR 24 HOUR STORM IN NEW CRITERIA
	*DIAGRAM
4	IT 5 0 0 300
5	IO 5
6	VS 32 31 29 OFF-29 28 28H 26 25 23 22
7	VV 2.11 2.11 2.11 2.11 2.11 2.11 2.11 2.11 2.11 2.11
8	VS 268 268P 268P 268P 25 25P 25P 25P U1 U1P
9	VV 2.11 2.11 6.11 7.11 2.11 2.11 6.11 7.11 2.11 2.11
10	VS U1P U1P
11	VV 6.11 7.11
12	KK 11
13	KM RUNOFF FROM 11
14	BA 0.203
15	LS 0 77.2
16	UD 0.280
17	IN 15
18	PB 0
19	PC 0.000 0.002 0.007 0.013 0.020 0.026 0.035 0.044 0.053 0.063
20	PC 0.073 0.083 0.092 0.103 0.112 0.122 0.141 0.172 0.202 0.233
21	PC 0.264 0.330 0.440 1.760 3.080 3.190 3.300 3.366 3.432 3.476
22	PC 3.520 3.564 3.608 3.630 3.652 3.674 3.696 3.718 3.740 3.762
23	PC 3.784 3.801 3.817 3.834 3.850 3.867 3.883 3.900 3.916 3.933
24	PC 3.949 3.966 3.982 3.997 4.011 4.025 4.039 4.052 4.066 4.079
25	PC 4.092 4.103 4.114 4.125 4.136 4.147 4.158 4.169 4.180 4.191
26	PC 4.202 4.213 4.224 4.235 4.246 4.257 4.268 4.279 4.290 4.301
27	PC 4.312 4.318 4.323 4.329 4.334 4.340 4.345 4.351 4.356 4.362
28	PC 4.367 4.373 4.378 4.384 4.389 4.395 4.400
29	KK 11-22
30	KM ROUTE 11 TO DESIGN POINT 22
31	RK 2400 .025 .015 0 TRAP 10 2
32	KK 12
33	KM RUNOFF FROM 12

34 BA 0.101
 35 LS 0 77.2
 36 UD 0.290

 37 KK 12-22A
 38 KM ROUTE 12 TO DESIGN POINT 22A
 39 RK 1650 .020 .012 0 CIRC 3.5 0

 40 KK 13
 41 KM RUNOFF FROM 13
 42 BA 0.133
 43 LS 0 73.5
 44 UD 0.250

HEC-1 INPUT

PAGE 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 45 KK 22A
 46 KM COMBINE 12-22A,13
 47 HC 2

 48 KK 22
 49 KM COMBINE 11-22,22A
 50 HC 2

 51 KK 22-23
 52 KM ROUTE TO DESIGN POINT 23
 53 RK 4550 .020 .015 0 TRAP 10 2

 54 KK 14
 55 KM RUNOFF FROM 14
 56 BA 0.174
 57 LS 0 73.9
 58 UD 0.350

 59 KK 14-23A
 60 KM ROUTE 14 TO DESIGN POINT 23A
 61 RK 3200 .020 .012 0 CIRC 4.0 0

 62 KK 15
 63 KM RUNOFF FROM 15
 64 BA 0.246
 65 LS 0 79.5
 66 UD 0.350

 67 KK 23A
 68 KM COMBINE 14-23A,15
 69 HC 2

 70 KK 23A-23
 71 KM ROUTE 23A TO DESIGN POINT 23
 72 RK 1200 .005 .015 0 TRAP 15 2

 73 KK 16
 74 KM RUNOFF FROM 16

75 BA 0.274
76 LS 0 88.0
77 UD 0.320

78 KK 17
79 KM RUNOFF FROM 17
80 BA 0.150
81 LS 0 78.8
82 UD 0.210

83 KK 23
84 KM COMBINE 22-23,23A-23,16,17
85 HC 4

HEC-1 INPUT

PAGE 3

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

86 KK 23-24
87 KM ROUTE TO DESIGN POINT 24
88 RK 1300 .006 .015 0 TRAP 15 2

89 KK 18
90 KM RUNOFF FROM 18
91 BA 0.107
92 LS 0 79.4
93 UD 0.230

94 KK 19
95 KM RUNOFF FROM 19
96 BA 0.046
97 LS 0 73.5
98 UD 0.210

99 KK 24
100 KM COMBINE 23-24,18,19
101 HC 3

102 KK 24-25
103 KM ROUTE TO DESIGN POINT 25
104 RK 1750 .050 .035 0 TRAP 15 2

105 KK 110
106 KM RUNOFF FROM 110
107 BA 0.171
108 LS 0 77.0
109 UD 0.210

110 KK 25
111 KM COMBINE 24-25,110P
112 HC 2

113 KK 25P
114 KM CHAPEL HILLS EAST DETENTION POND NO 2
115 SV 0 2.8 6.4 10.8 15.0 21.3 27.5 33.8 41.0 49.0
116 SV 57.0 65.4 74.7 85.5 95.8 109.0 123.9 144.8 163.5

117	SE	6602	6604.5	6607	6609.5	6612	6614.5	6617	6619.5	6622	6624.5
118	SE	6627	6629.5	6632	6634.5	6637	6639.5	6642	6644.5	6647	
119	SQ	0	24	37	46	56	63	70	76	82	88
120	SQ	92	97	102	107	111	115	119	596	1802	
121	RS	1	ELEV	6602							

122	KK	25-26									
123	KM	ROUTE TO DESIGN POINT 26									
124	RK	1800	.030	.012	0	CIRC	4.5	0			

125	KK	N1									
126	KM	RUNOFF FROM N1									
127	BA	0.153									
128	LS	0	88.7								
129	UD	0.260									

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

130	KK	N1-26A									
131	KM	ROUTE N1 TO DESIGN POINT 26A									
132	RK	3100	.035	.012	0	CIRC	3.0	0			

133	KK	N2									
134	KM	RUNOFF FROM N2									
135	BA	0.091									
136	LS	0	75.2								
137	UD	0.260									

138	KK	26A									
139	KM	COMBINE N1-26A,N2									
140	HC	2									

141	KK	26A26B									
142	KM	ROUTE 26A TO DESIGN POINT 26B									
143	RK	3500	.060	.035	0	TRAP	10	2			

144	KK	N3									
145	KM	RUNOFF FROM N3									
146	BA	0.254									
147	LS	0	76.2								
148	UD	0.270									

149	KK	26B									
150	KM	COMBINE 26A-26B,N3									
151	HC	2									

152	KK	268P									
153	KM	CHAPEL HILLS EAST DETENTION POND NO 1									
154	SV	0	1.4	3.1	5.4	7.7	10.5	13.5	16.0	21.0	25.7
155	SV	29.1	34.1	39.0	45.1	46.5	50.5	56.2	62.0		
156	SE	6582	6584	6586	6588	6590	6592	6594	6596	6598	6600
157	SE	6602	6604	6606	6608	6608.5	6610	6612	6614		
158	SQ	0	42.5	65	79.5	90.5	100	109.5	117	124.5	132
159	SQ	138.5	145	152.5	157.5	159	229.5	459.5	885		

160 RS 1 ELEV 6582

161 KK 26

162 KM COMBINE 25-26,26BP

163 HC 2

164 KK 26-27

165 KM ROUTE TO DESIGN POINT 27

166 RK 3500 .022 .015 0 CIRC 7.5 0

167 KK R6

168 KM RUNOFF FROM R6

169 BA 0.200

170 LS 0 83.4

171 UD 0.330

HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

172 KK 27

173 KM COMBINE 26-27,R6

174 HC 2

175 KK 27-28G

176 KM ROUTE 27 TO DESIGN POINT 28G

177 RK 2700 .022 .015 0 TRAP 10 1.5

178 KK R7

179 KM RUNOFF FROM R7

180 BA 0.165

181 LS 0 85.2

182 UD 0.340

183 KK 28G

184 KM COMBINE 27-28G,R7

185 HC 2

186 KK R1

187 KM RUNOFF FROM R1

188 BA 0.179

189 LS 0 85.9

190 UD 0.260

191 KK R1-28C

192 KM ROUTE R1 TO DESIGN POINT 28C

193 RK 2400 .045 .035 0 TRAP 10 2

194 KK R4

195 KM RUNOFF FROM R4

196 BA 0.194

197 LS 0 88.7

198 UD 0.280

199 KK 28C

200 KM COMBINE R1-28C,R4

201 HC 2

202 KK 28C28E

203 KM ROUTE 28C TO DESIGN POINT 28E

204 RK 1450 .018 .035 0 TRAP 10 2

205 KK R2

206 KM RUNOFF FROM R2

207 BA 0.124

208 LS 0 78.5

209 UD 0.250

210 KK R2-28D

211 KM ROUTE R2 TO DESIGN POINT 28D

212 RK 1100 .020 .015 0 TRAP 15 2

HEC-1 INPUT

PAGE 6

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

213 KK R3

214 KM RUNOFF FROM R3

215 BA 0.074

216 LS 0 88.4

217 UD 0.240

218 KK 28D

219 KM COMBINE R2-28D,R3

220 HC 2

221 KK 28D28E

222 KM ROUTE 28D TO DESIGN POINT 28E

223 RK 2200 .023 .015 0 CIRC 7.0 0

224 KK 28E

225 KM COMBINE 28C-28E,28D-28E

226 HC 2

227 KK 28E28F

228 KM ROUTE 28E TO DESIGN POINT 28F

229 RK 1200 .030 .015 0 CIRC 9.0 0

230 KK R5

231 KM RUNOFF FROM R5

232 BA 0.194

233 LS 0 92.0

234 UD 0.310

235 KK 28F

236 KM COMBINE 28E-28F,R5

237 HC 2

238 KK 28H

239 KM COMBINE 28F,28G

240 HC 2

241	KK	U1								
242	KM	RUNOFF FROM U1								
243	BA	0.136								
244	LS	0	77.8							
245	UD	0.190								
246	KK	U1P								
247	KM	DETENTION POND NO 3								
248	SV	0	0.9	2.0	3.6	5.4	7.4	9.8	12.4	
249	SE	6578	6580	6582	6584	6586	6588	6590	6592	
250	SQ	0	4.7	5.6	6.5	72.6	78.2	124.2	500	
251	RS	1	ELEV	6578						

HEC-1 INPUT

PAGE 7

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

252	KK	U1-28A								
253	KM	ROUTE U1 TO DESIGN POINT 28A								
254	RK	2800	.035	.020	0	TRAP	30	0		
255	KK	U2								
256	KM	RUNOFF FROM U2								
257	BA	0.145								
258	LS	0	77.5							
259	UD	0.300								
260	KK	28A								
261	KM	COMBINE U1-28A,U2								
262	HC	2								
263	KK	28A28B								
264	KM	ROUTE 28A TO DESIGN POINT 28B								
265	RK	1900	.025	.012	0	CIRC	4.0	0		
266	KK	U3								
267	KM	RUNOFF FROM U3								
268	BA	0.103								
269	LS	0	87.5							
270	UD	0.170								
271	KK	28B								
272	KM	COMBINE 28A-28B,U3								
273	HC	2								
274	KK	28B-28								
275	KM	ROUTE 28B TO DESIGN POINT 28								
276	RK	1600	.020	.012	0	CIRC	4.5	0		
277	KK	28								
278	KM	COMBINE 28B-28,28H								
279	HC	2								
280	KK	28-29								
281	KM	ROUTE TO DESIGN POINT 29								
282	RK	1900	.012	.015	0	TRAP	12	2		

* =====
 * BEGIN OBERING WURTH DATA
 * =====

283
 284
 285
 286
 287

KK SB1
 KM SCS RUNOFF COMPUTATION BY O/W
 BA .2421
 LS 0 81
 UD .38

HEC-1 INPUT

PAGE 8

LINE

ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

288
 289

KK SB1-1
 RK 1750 .025 .019 TRAP 34 0

290
 291
 292
 293
 294

KK SB3
 KM SCS RUNOFF COMPUTATION
 BA .3593
 LS 0 88
 UD .35

295
 296
 297

KK SUMPT1
 KM COMBINE 1 AND 3
 HC 2

298
 299
 300
 301
 302
 303
 304

KK DF#2
 KM ROUTE FLOWS THROUGH DETENTION FACILITY NO. 2
 RS 1 STOR 0
 SA 0 .0001 .3500 .7900 1.6800 3.0100 4.7300 6.7600
 SE 6953 6955 6960 6965 6970 6975 6980 6985
 SL 6955 12.566 .60 0.5
 SS 6985

305
 306

KK -PT4
 RK 4880 .03 .04 TRAP 10 2.5

307
 308
 309
 310
 311

KK SB9
 KM SCS RUNOFF - SUBBASIN NO. 9
 BA .1765
 LS 0 79.5
 UD .28

312
 313
 314
 315
 316

KK SB10
 KM SCS RUNOFF - SUBBASIN NO 10
 BA .1468
 LS 0 86
 UD .47

317
 318
 319

KK SUMPT4
 KM COMBINE PT 1, 9 AND 10
 HC 3

320
 321

KK SB15UP
 KM SCS RUNOFF - SUBBASIN NO 15 UPPER / WITH MAIN CHANNEL

322	BA	.0422							
323	LS	0	82						
324	UK	1600	.025	.25	100				
325	RK	1600	.015	.015		TRAP	10	1.5	YES
326	KK	SB2							
327	KM	SCS RUNOFF	SUBBASIN NO. 2						
328	BA	.1796							
329	LS	0	81						
330	UD	.24							

HEC-1 INPUT

PAGE 9

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

331	KK	-DF#3							
332	RK	1085	.04	.019		TRAP	34	0	
333	RK	915	.015	.015		TRAP	8	1.5	
334	KK	SB4A							
335	KM	SCS RUNOFF	- SUBBASIN NO. 4A ABOVE POND NO. 3						
336	BA	.2062							
337	LS	0	84						
338	UD	.26							
339	KK	SUM2A							
340	KM	SUM FLOWS AT DF#3							
341	HC	2							
342	KK	DF#3							
343	KM	ROUTE FLOWS THRU DETENTION FACILITY NO. 3							
344	RS	1	STOR	0					
345	SA	0	.5510	2.9511					
346	SE	7075	7080	7090					
347	SL	7077.3	15.904	.60	.50				
348	SS	7090							
349	KK	-2B							
350	RK	2400	.028	.015		TRAP	8	1.5	
351	KK	SB4B							
352	KM	SCS RUNOFF	- SUBBASIN NO. 4B BELOW POND NO 3						
353	BA	.1460							
354	LS	0	90						
355	UD	.36							
356	KK	SB5							
357	KM	SCS RUNOFF	- SUBBASIN NO. 5						
358	BA	.2359							
359	LS	0	89						
360	UD	.53							
361	KK	SUM2B							
362	KM	COMBINE SUBBASINS 2,4 AND 5							
363	HC	3							

364 KK DF#4
 365 KM ROUTE FLOWS THROUGH DETENTION FACILITY NO. 4
 366 RS 1 STOR 0
 367 SA 0 1.6102 3.1054 4.6006
 368 SE 7015 7023 7028 7033
 369 SL 7019 50.266 .60 .50
 370 SS 7033

HEC-1 INPUT

PAGE 10

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

371 KK SB7UP
 372 KM SCS RUNOFF - SUBBASIN NO 7 ABOVE POND NO 5
 373 BA .0272
 374 LS 0 86
 375 UK 1000 .02 .15 100
 376 RK 400 .02 .015 TRAP 8 1.5 YES

377 KK DF#5
 378 KM ROUTE FLOWS THROUGH DETENTION FACILITY NO 5
 379 RS 1 STOR 0
 380 SA 0 1.100 1.6669 7.30
 381 SE 6984 6989 6994 6999
 382 SL 6987.3 33.183 .60 .50
 383 SS 6999

384 KK -SB6
 385 RK 2100 .025 .015 TRAP 8 1.5

386 KK SB6
 387 KM SCS RUNOFF - SUBBASIN NO. 6
 388 BA .0797
 389 LS 0 88
 390 UD .48

391 KK COM-2
 392 HC 2

393 KK -3
 394 RK 1340 .025 .015 TRAP 8 1.5

395 KK SB7
 396 KM SCS RUNOFF - SUBBASIN NO. 7
 397 BA .2352
 398 LS 0 86
 399 UD .42

400 KK SB8
 401 KM SCS RUNOFF - SUBBASIN NO. 8
 402 BA .1406
 403 LS 0 84
 404 UD .23

405 KK SUM3
 406 KM COMBINE PT. 2 ROUTED WITH 6,7 AND 8

407 HC 3

408 KK SB12

409 KM SCS RUNOFF - SUBBAIN NO. 12 / WITH MAIN CHANNEL

410 BA .1718

411 LS 0 85

412 UK 4450 .025 .30 100

413 RK 2900 .020 .015 TRAP 10 1.5 YES

HEC-1 INPUT

PAGE 11

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

414 KK SB11

415 KM SCS RUNOFF - SUBBASIN NO. 11

416 BA .1250

417 LS 0 83

418 UD .33

419 KK SUM5

420 KM COMBINE PT. 3 WITH SUBBASINS 11 AND 12

421 HC 2

422 KK -SB13

423 RK 700 .015 .015 TRAP 12 1.5

424 KK SB13

425 KM SCS RUNOFF - SUBBASIN NO. 13

426 BA .1664

427 LS 0 84

428 UD .57

429 KK COM13

430 HC 2

431 KK SB15LO

432 KM SCS RUNOFF - SUBBASIN NO. 15 LOWER WITH MAIN CHANNEL

433 BA .0422

434 LS 0 82

435 UK 1600 .025 .25 100

436 RK 1020 .015 .015 TRAP 12 1.5 YES

437 KK SUM6

438 KM COMBINE PT 4 AND 5 WITH SUBBASINS 13 AND 15

439 HC 2

440 KK SB16

441 KM SCS RUNOFF - SUBBASIN NO. 16 / WITH MAIN CHANNEL

442 BA .0359

443 LS 0 75.5

444 UK 2100 .03 .30 100

445 RK 1850 .010 .015 TRAP 12 1.5 YES

446 KK SB14

447 KM SCS RUNOFF - SUBBASIN NO. 14

448 BA .2952

449 LS 0 70
450 UD .39

451 KK SUM7
452 KM COMBINE PT 6, SUBBASINS 14 AND 16
453 HC 2

HEC-1 INPUT

PAGE 12

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

454 KK 7-8
455 RK 1100 .01 .040 TRAP 30 5
456 RK 640 .01 .015 TRAP 20 1.5

457 KK SB19
458 KM SCS RUNOFF - SUBBASIN NO. 19
459 BA .2210
460 LS 0 75
461 UD .51

462 KK -8
463 RK 1600 .035 .019 TRAP 36 0

464 KK SB17
465 KM SCS RUNOFF - SUBBASIN NO. 17
466 BA .1203
467 LS 0 71
468 UD .25

469 KK COM19
470 HC 2

471 KK SB18
472 KM SCS RUNOFF - SUBBASIN NO. 18
473 BA .1062
474 LS 0 78.5
475 UD .24

476 KK SUM8
477 KM COMBINE PT 7, SUBBASINS 17, 18 AND 19
478 HC 3

479 KK 8-9
480 RK 3960 .01 .040 TRAP 30 5

481 KK SB20
482 KM SCS RUNOFF - SUBBASIN NO. 20
483 BA .2640
484 LS 0 70.5
485 UD .23

486 KK SB21
487 KM SCS RUNOFF - SUBBASIN NO. 21
488 BA .1234
489 LS 0 80.5

490 UD .43
 491 KK SB22
 492 KM SCS RUNOFF - SUBBASIN NO. 22
 493 BA .1624
 494 LS 0 82
 495 UD .47

HEC-1 INPUT

PAGE 13

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

496 KK -9
 497 RK 3200 .04 .019 TRAP 72 0

498 KK SB25A
 499 KM SCS RUNOFF - SUBBASIN NO. 25A
 500 BA .0875
 501 LS 0 91
 502 UD .52

503 KK COM25A
 504 HC 2

505 KK SUM9
 506 KM COMBINE PT. 8, SUBBASINS 20 AND 21, AND 22 AND 25A
 507 HC 4

508 KK DF#1
 509 KM ROUTE FLOW THROUGH DETENTION FACILITY NO. 1
 510 RS 1 STOR 0
 511 SA 0 1.4700 2.5959 4.5650 5.6100 6.4570
 512 SE 50.0 55.0 60.0 65.0 70.0 75.0
 513 SL 54.0 95.030 0.60 0.50
 514 SS 75.0

515 KK 9-10
 516 RK 1450 .02 .015 DEEP 11.5 0

517 KK SB25B
 518 KM SCS RUNOFF - SUBBASIN NO. 25B
 519 BA .0531
 520 LS 0 91
 521 UD .35

522 KK SUM10
 523 KM SUMMARY SB25B AND POND NO. 1 ROUTED
 524 HC 2

525 KK SB23
 526 KM SCS RUNOFF - SUBBASIN NO. 23 -
 527 BA .2515
 528 LS 0 83
 529 UD .57

530 KK -11

531 RK 4100 .03 .019 TRAP 30 2

532 KK SB24

533 KM SCS RUNOFF - SUBBASIN NO. 24

534 BA .1874

535 LS 0 91

536 UD .58

HEC-1 INPUT

PAGE 14

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

537 KK SUM11

538 KM SUMMARY SUBBASINS NO. 23 AND 24

539 HC 2

540 KK SB26

541 KM SCS RUNOFF - SUBBASIN NO. 26

542 BA .1703

543 LS 0 58

544 UD .80

545 KK SUM12

546 KM SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26

547 HC 3

548 KK SB28

549 KM SCS RUNOFF - SUBBASIN NO. 28

550 BA .1609

551 LS 0 65

552 UK 1980 .038 .35 100

553 RK 4707 .0075 .015 TRAP 25.5 3 YES

554 KK SB27

555 KM SCS RUNOFF - SUBBASIN NO. 27

556 BA .0312

557 LS 0 58

558 UD .12

559 KK SUM13

560 KM SUMMARY PT 12, SUBBASINS 27 AND 28

561 HC 2

* =====

* END OBERING WURTH DATA

* =====

562 KK OFF-29

563 KM ROUTE OBERING/WURTH HYDROGRAPH TO DESIGN POINT 29

564 RK 3300 .025 .040 TRAP 50 3

565 KK X2

566 KM RUNOFF FROM X2

567 BA 0.147

568 LS 0 88.7

569 UD 0.270

570 KK X1A
 571 KM RUNOFF FROM X1A
 572 BA 0.048
 573 LS 0 66.0
 574 UD 0.220

HEC-1 INPUT

PAGE 15

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

575 KK 29
 576 KM COMBINE 28-29, OFFSITE FROM O/W, X2, X1A
 577 HC 4

578 KK U4A
 579 KM RUNOFF FROM U4A
 580 BA 0.083
 581 LS 0 77.1
 582 UD 0.240

583 KK U4A-30
 584 KM ROUTE U4A TO DESIGN POINT 30
 585 RK 4500 .017 .015 TRAP 20 3

586 KK X3
 587 KM RUNOFF FROM X3
 588 BA 0.186
 589 LS 0 86.9
 590 UD 0.220

591 KK U4A+X3
 592 KM COMBINE U4A-30, X3
 593 HC 2

594 KK 30
 595 KM COMBINE 29, U4A+X3
 596 HC 2

597 KK 30-31
 598 KM ROUTE 30 TO DESIGN POINT 31
 599 RK 1600 .020 .045 TRAP 20 3

600 KK U4B
 601 KM RUNOFF FROM U4B
 602 BA 0.156
 603 LS 0 74.4
 604 UD 0.240

605 KK U4B-31
 606 KM ROUTE U4B TO DESIGN POINT 31
 607 RK 4500 .017 .015 TRAP 20 3

608 KK X4
 609 KM RUNOFF FROM X4
 610 BA 0.183
 611 LS 0 81.8

612 UD 0.210
 613 KK U4B+X4
 614 KM COMBINE U4B-31,X4
 615 HC 2

HEC-1 INPUT

PAGE 16

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

616 KK X5
 617 KM RUNOFF FROM X5
 618 BA 0.123
 619 LS 0 85.2
 620 UD 0.210
 621 KK X1B
 622 KM RUNOFF FROM X1B
 623 BA 0.125
 624 LS 0 67.7
 625 UD 0.310
 626 KK 31
 627 KM COMBINE 30-31,U4B+X4,X5,X1B
 628 HC 4
 629 KK 31-32
 630 KM ROUTE 31 TO DESIGN POINT 32
 631 RK 1500 .020 .045 TRAP 20 3
 632 KK Y1
 633 KM RUNOFF FROM Y1
 634 BA 0.124
 635 LS 0 71.4
 636 UD 0.210
 637 KK 32
 638 KM COMBINE 31-32,Y1,Y2
 639 HC 2
 640 KK Y2
 641 KM RUNOFF FROM Y2
 642 BA 0.152
 643 LS 0 91.9
 644 UD 0.250
 645 ZZ

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT
 LINE

(V) ROUTING (--->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

12

I1
 V
 V

29	11-22		
	.		
32	.	12	
	.	V	
	.	V	
37	.	12-22	
	.	.	
40	.	.	13
	.	.	.
45	.	22A.....	.
	.	.	.
48	22.....	.	
	V		
	V		
51	22-23		
	.		
54	.	14	
	.	V	
	.	V	
59	.	14-23A	
	.	.	
62	.	.	15
	.	.	.
67	.	23A.....	.
	.	V	
	.	V	
70	.	23A-23	
	.	.	
73	.	.	16
	.	.	.
78	.	.	17
	.	.	.
83	23.....	.	.
	V		
	V		
86	23-24		
	.		
89	.	18	
	.	.	
94	.	.	19
	.	.	.
99	24.....	.	.
	V		

102	V 24-25	
	.	
105	.	110
	.	.
110	25.....	
	V	
	V	
113	25P	
	V	
	V	
122	25-26	
	.	
125	.	N1
	.	V
	.	V
130	.	N1-26A
	.	.
133	.	.
	.	N2
	.	.
138	.	26A.....
	.	V
	.	V
141	.	26A26B
	.	.
144	.	.
	.	N3
	.	.
149	.	26B.....
	.	V
	.	V
152	.	26BP
	.	.
	.	.
161	26.....	
	V	
	V	
164	26-27	
	.	
167	.	R6
	.	.
	.	.
172	27.....	
	V	
	V	
175	27-28G	
	.	
178	.	R7

183	.	.
	28G.....	.
186	.	R1
	.	V
	.	V
191	.	R1-28C
	.	.
194	.	R4
	.	.
199	.	28C.....
	.	V
	.	V
202	.	28C28E
	.	.
205	.	R2
	.	V
	.	V
210	.	R2-28D
	.	.
213	.	R3
	.	.
218	.	28D.....
	.	V
	.	V
221	.	28D28E
	.	.
224	.	28E.....
	.	V
	.	V
227	.	28E28F
	.	.
230	.	R5
	.	.
235	.	28F.....
	.	.
238	.	28H.....
	.	.
241	.	U1
	.	V
	.	V
246	.	U1P
	.	V
	.	V

252	.	U1-28A	.	
	.	.	.	
255	.	.	.	U2
	.	.	.	
260	.	28A.....	.	
	.	V	.	
	.	V	.	
263	.	28A28B	.	
	.	.	.	
266	.	.	.	U3
	.	.	.	
271	.	28B.....	.	
	.	V	.	
	.	V	.	
274	.	28B-28	.	
	.	.	.	
277	.	28.....	.	
	.	V	.	
	.	V	.	
280	.	28-29	.	
	.	.	.	
283	.	SB1	.	
	.	V	.	
	.	V	.	
288	.	SB1-1	.	
	.	.	.	
290	.	.	.	SB3
	.	.	.	
295	.	SUMPT1.....	.	
	.	V	.	
	.	V	.	
298	.	DF#2	.	
	.	V	.	
	.	V	.	
305	.	-PT4	.	
	.	.	.	
307	.	.	.	SB9
	.	.	.	
312	.	.	.	SB10
	.	.	.	
317	.	SUMPT4.....	.	
	.	V	.	
	.	V	.	
320	.	SB15UP ***	.	
	.	.	.	

326	.	.	SB2		
	.	.	V		
	.	.	V		
331	.	.	-DF#3		
	.	.	.		
334	.	.	.	SB4A	
	.	.	.	.	
339	.	.	SUM2A.....		
	.	.	V		
	.	.	V		
342	.	.	DF#3		
	.	.	V		
	.	.	V		
349	.	.	-2B		
	.	.	.		
351	.	.	.	SB4B	
	.	.	.	.	
356	.	.	.	.	SB5
	.	.	.	.	.
361	.	.	SUM2B.....		
	.	.	V		
	.	.	V		
364	.	.	DF#4		
	.	.	V		
	.	.	V		
371	.	.	SB7UP ***		
	.	.	V		
	.	.	V		
377	.	.	DF#5		
	.	.	V		
	.	.	V		
384	.	.	-SB6		
	.	.	.		
386	.	.	.	SB6	
	.	.	.	.	
391	.	.	COM-2.....		
	.	.	V		
	.	.	V		
393	.	.	-3		
	.	.	.		
395	.	.	.	SB7	
	.	.	.	.	
400	.	.	.	.	SB8
	.	.	.	.	.
405	.	.	SUM3.....		

	.	.	V	
408	.	.	V	
	.	.	SB12 ***	
	.	.	.	
414	.	.	.	SB11
	.	.	.	.
419	.	.	SUM5.....	.
	.	.	V	
422	.	.	V	
	.	.	-SB13	
	.	.	.	
424	.	.	.	SB13
	.	.	.	.
429	.	.	COM13.....	.
	.	.	V	
431	.	.	V	
	.	.	SB15LO ***	
	.	.	.	
437	.	.	SUM6.....	
	.	.	V	
440	.	.	V	
	.	.	SB16 ***	
	.	.	.	
446	.	.	.	SB14
	.	.	.	.
451	.	.	SUM7.....	.
	.	.	V	
454	.	.	V	
	.	.	7-8	
	.	.	.	
457	.	.	.	SB19
	.	.	V	
462	.	.	V	
	.	.	-8	
	.	.	.	
464	.	.	.	SB17
	.	.	.	.
469	.	.	COM19.....	.
	.	.	.	
471	.	.	.	SB18
	.	.	.	.
476	.	.	SUM8.....	.
	.	.	V	
	.	.	V	

479	.	8-9			
	.	.			
481	.	.	SB20		
	.	.	.		
486	.	.		SB21	
	.	.		.	
491	.	.			SB22
	.	.			V
496	.	.			V
	.	.			-9
	.	.			.
498	.	.			
	.	.			SB25A
	.	.			.
503	.	.			COM25A
	.	.			
	.	.			.
505	.	SUM9	.....		
	.	V			
	.	V			
508	.	DF#1			
	.	V			
	.	V			
515	.	9-10			
	.	.			
517	.	.	SB25B		
	.	.	.		
522	.	SUM10	.....		
	.	.			
525	.	.	SB23		
	.	.	V		
	.	.	V		
530	.	.	-11		
	.	.	.		
532	.	.		SB24	
	.	.		.	
537	.	.	SUM11	.....	
	.	.	.		
540	.	.		SB26	
	.	.	.	.	
545	.	SUM12	.....		
	.	V			
	.	V			
548	.	SB28 ***			
	.	.			

554	.	.	SB27
559	.	SUM13	.
	.	V	.
562	.	OFF-29	.
565	.	.	X2
570	.	.	X1A
575	29	.	.
578	.	U4A	.
	.	V	.
583	.	U4A-30	.
586	.	.	X3
591	.	U4A+X3	.
594	30	.	.
	V	.	.
597	30-31	.	.
600	.	U4B	.
	.	V	.
605	.	U4B-31	.
608	.	.	X4
613	.	U4B+X4	.
616	.	.	X5
621	.	.	X1B
626	31	.	.

```

      V
      V
629   31-32
      .
632   .      Y1
      .
637   32.....
      .
640   .      Y2

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1 *****
 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

SOUTH PINE CREEK DBPS 1-15-92 URS PROJECT NO. 49209
 RECOMMENDED RUN FOR THE BASIN - INPUT FILE PDT3.INP
 USING THE 100 YEAR 24 HOUR STORM IN NEW CRITERIA

5 10 OUTPUT CONTROL VARIABLES
 IPRNT 5 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME

COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

USER-DEFINED OUTPUT SPECIFICATIONS

TABLE 1

VS STATION	32	31	29	OFF-29	28	28H	26	25	23	22
VV VARIABLE CODE	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11

TABLE 2

VS STATION	268	268P	268P	268P	25	25P	25P	25P	U1	U1P
VV VARIABLE CODE	2.11	2.11	6.11	7.11	2.11	2.11	6.11	7.11	2.11	2.11

TABLE 3

VS STATION	U1P	U1P

VV VARIABLE CODE	6.11	7.11	.00	.00	.00	.00	.00	.00	.00	.00
------------------	------	------	-----	-----	-----	-----	-----	-----	-----	-----

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 87.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 457.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
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 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG
 WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

1

RUNOFF SUMMARY
 FLOW IN CUBIC FEET PER SECOND
 TIME IN HOURS, AREA IN SQUARE MILES

	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT									
+		11	284.	6.17	38.	12.	11.	.20		
+	ROUTED TO	11-22	278.	6.17	38.	12.	11.	.20		
+	HYDROGRAPH AT	12	139.	6.17	19.	6.	6.	.10		
+	ROUTED TO	12-22	137.	6.17	19.	6.	6.	.10		
+	HYDROGRAPH AT	13	163.	6.17	21.	7.	6.	.13		
+	2 COMBINED AT	22A	300.	6.17	40.	12.	12.	.23		
+	2 COMBINED AT	22	578.	6.17	77.	24.	23.	.44		
+	ROUTED TO	22-23	558.	6.25	77.	24.	23.	.44		
+	HYDROGRAPH AT	14	182.	6.25	28.	9.	9.	.17		
+	ROUTED TO	14-23A	181.	6.25	28.	9.	9.	.17		

[illegible]

+		26A	454.	6.17	59.	18.	17.	.24		
+	ROUTED TO	26A26B	452.	6.17	60.	18.	17.	.24		
+	HYDROGRAPH AT	N3	345.	6.17	45.	14.	14.	.25		
+	2 COMBINED AT	26B	797.	6.17	105.	32.	31.	.50		
+	ROUTED TO	26BP	138.	6.83	103.	32.	31.	.50		
+									6601.97	6.83
+	2 COMBINED AT	26	253.	7.00	215.	114.	110.	2.10		
+	ROUTED TO	26-27	253.	7.00	215.	114.	109.	2.10		
+	HYDROGRAPH AT	R6	333.	6.17	47.	14.	14.	.20		
+	2 COMBINED AT	27	518.	6.25	259.	128.	123.	2.30		
+	ROUTED TO	27-28G	516.	6.25	259.	128.	123.	2.30		
+	HYDROGRAPH AT	R7	290.	6.17	42.	13.	12.	.17		
+	2 COMBINED AT	28G	794.	6.25	299.	140.	135.	2.47		
+	HYDROGRAPH AT	R1	365.	6.08	46.	14.	13.	.18		
+	ROUTED TO	R1-28C	359.	6.17	47.	14.	14.	.18		
+	HYDROGRAPH AT	R4	419.	6.08	55.	17.	16.	.19		
+	2 COMBINED AT	28C	775.	6.17	102.	31.	29.	.37		
+	ROUTED TO	28C28E	771.	6.17	102.	31.	29.	.37		
+	HYDROGRAPH AT	R2	191.	6.08	24.	8.	7.	.12		
+	ROUTED TO	R2-28D	189.	6.17	24.	8.	7.	.12		

+	HYDROGRAPH AT	R3	171.	6.08	21.	6.	6.	.07		
+	2 COMBINED AT	28D	356.	6.08	45.	14.	13.	.20		
+	ROUTED TO	28D28E	349.	6.17	45.	14.	13.	.20		
+	2 COMBINED AT	28E	1120.	6.17	147.	44.	43.	.57		
+	ROUTED TO	28E28F	1115.	6.17	147.	44.	43.	.57		
+	HYDROGRAPH AT	R5	448.	6.17	62.	18.	18.	.19		
+	2 COMBINED AT	28F	1563.	6.17	209.	63.	60.	.77		
+	2 COMBINED AT	28H	2344.	6.17	506.	203.	196.	3.23		
+	HYDROGRAPH AT	U1	234.	6.08	26.	8.	8.	.14		
+	ROUTED TO	U1P	75.	6.33	19.	8.	7.	.14	6586.95	6.33
+	ROUTED TO	U1-28A	75.	6.42	20.	8.	7.	.14		
+	HYDROGRAPH AT	U2	199.	6.17	27.	8.	8.	.14		
+	2 COMBINED AT	28A	256.	6.25	46.	16.	16.	.28		
+	ROUTED TO	28A28B	255.	6.25	46.	16.	16.	.28		
+	HYDROGRAPH AT	U3	253.	6.00	28.	8.	8.	.10		
+	2 COMBINED AT	28B	430.	6.08	74.	25.	24.	.38		
+	ROUTED TO	28B-28	426.	6.17	74.	25.	24.	.38		
+	2 COMBINED AT	28	2770.	6.17	580.	228.	219.	3.62		

+	ROUTED TO	28-29	2739.	6.17	579.	228.	219.	3.62		
+	HYDROGRAPH AT	SB1	335.	6.25	52.	16.	15.	.24		
+	ROUTED TO	SB1-1	332.	6.25	52.	16.	15.	.24		
+	HYDROGRAPH AT	SB3	688.	6.17	100.	30.	29.	.36		
+	2 COMBINED AT	SUMPT1	997.	6.17	152.	46.	44.	.60		
+	ROUTED TO	DF#2	290.	6.75	152.	46.	44.	.60	6978.09	6.75
+	ROUTED TO	-PT4	290.	6.83	152.	46.	44.	.60		
+	HYDROGRAPH AT	SB9	272.	6.17	36.	11.	11.	.18		
+	HYDROGRAPH AT	SB10	217.	6.33	38.	11.	11.	.15		
+	3 COMBINED AT	SUMPT4	702.	6.25	225.	68.	66.	.92		
+	HYDROGRAPH AT	SB15UP	721.	6.25	234.	71.	69.	.97		
+	HYDROGRAPH AT	SB2	316.	6.08	39.	12.	11.	.18		
+	ROUTED TO	-DF#3	310.	6.08	39.	12.	11.	.18		
+	HYDROGRAPH AT	SB4A	390.	6.08	50.	15.	15.	.21		
+	2 COMBINED AT	SUM2A	700.	6.08	89.	27.	26.	.39		
+	ROUTED TO	DF#3	268.	6.42	89.	27.	26.	.39	7089.63	6.42
+	ROUTED TO	-2B	268.	6.50	88.	27.	26.	.39		
+	HYDROGRAPH AT	SB4B	295.	6.17	44.	13.	12.	.15		

+	HYDROGRAPH AT	SB5	363.	6.33	68.	20.	20.	.24		
+	3 COMBINED AT	SUM28	883.	6.25	200.	60.	58.	.77		
+	ROUTED TO	DF#4	682.	6.58	199.	60.	58.	.77	7026.97	6.58
+	HYDROGRAPH AT	SB7UP	700.	6.58	206.	62.	60.	.79		
+	ROUTED TO	DF#5	511.	7.25	205.	62.	59.	.79	6997.57	7.25
+	ROUTED TO	-SB6	510.	7.25	205.	62.	59.	.79		
+	HYDROGRAPH AT	SB6	126.	6.33	22.	7.	6.	.08		
+	2 COMBINED AT	COM-2	560.	6.58	226.	68.	66.	.87		
+	ROUTED TO	-3	560.	6.58	226.	68.	66.	.87		
+	HYDROGRAPH AT	SB7	377.	6.25	61.	18.	18.	.24		
+	HYDROGRAPH AT	SB8	284.	6.08	34.	10.	10.	.14		
+	3 COMBINED AT	SUM3	1075.	6.25	321.	97.	94.	1.25		
+	HYDROGRAPH AT	SB12	1101.	6.25	353.	109.	105.	1.42		
+	HYDROGRAPH AT	SB11	205.	6.17	29.	9.	9.	.13		
+	2 COMBINED AT	SUM5	1296.	6.25	381.	118.	113.	1.55		
2+	ROUTED TO	-SB13	1293.	6.25	382.	118.	113.	1.55		
+	HYDROGRAPH AT	SB13	199.	6.42	40.	12.	12.	.17		
+	2 COMBINED AT	COM13	1469.	6.25	421.	130.	125.	1.71		

+	HYDROGRAPH AT	SB15LO	1482.	6.25	430.	133.	128.	1.76
+	2 COMBINED AT	SUM6	2203.	6.25	664.	204.	196.	2.72
+	HYDROGRAPH AT	SB16	2186.	6.25	668.	206.	198.	2.76
+	HYDROGRAPH AT	SB14	235.	6.25	39.	13.	12.	.30
+	2 COMBINED AT	SUM7	2422.	6.25	708.	218.	210.	3.05
+	ROUTED TO	7-8	2411.	6.33	708.	218.	210.	3.05
+	HYDROGRAPH AT	SB19	189.	6.42	37.	12.	11.	.22
+	ROUTED TO	-8	189.	6.42	37.	12.	11.	.22
+	HYDROGRAPH AT	SB17	131.	6.17	17.	5.	5.	.12
+	2 COMBINED AT	COM19	273.	6.25	54.	17.	16.	.34
+	HYDROGRAPH AT	SB18	168.	6.08	21.	6.	6.	.11
+	3 COMBINED AT	SUM8	2813.	6.25	782.	242.	233.	3.50
+	ROUTED TO	8-9	2792.	6.33	778.	241.	232.	3.50
+	HYDROGRAPH AT	SB20	291.	6.08	36.	12.	11.	.26
+	HYDROGRAPH AT	SB21	154.	6.25	26.	8.	8.	.12
+	HYDROGRAPH AT	SB22	205.	6.33	36.	11.	11.	.16
+	ROUTED TO	-9	203.	6.42	36.	11.	11.	.16
+	HYDROGRAPH AT	SB25A	147.	6.33	27.	8.	8.	.09
+	2 COMBINED AT	COM25A	347.	6.33	63.	19.	18.	.25

+	4 COMBINED AT	SUM9	3454.	6.33	902.	280.	270.	4.14		
+	ROUTED TO	DF#1	2039.	6.83	981.	279.	269.	4.14		
+									73.94	6.83
+	ROUTED TO	9-10	2039.	6.83	902.	280.	270.	4.14		
+	HYDROGRAPH AT	SB25B	113.	6.17	16.	5.	5.	.05		
+	2 COMBINED AT	SUM10	2062.	6.83	918.	285.	274.	4.19		
+	HYDROGRAPH AT	SB23	289.	6.42	58.	18.	17.	.25		
+	ROUTED TO	-11	287.	6.50	58.	18.	17.	.25		
+	HYDROGRAPH AT	SB24	291.	6.42	58.	17.	16.	.19		
+	2 COMBINED AT	SUM11	573.	6.42	116.	35.	34.	.44		
+	HYDROGRAPH AT	SB26	34.	6.83	11.	4.	4.	.17		
+	3 COMBINED AT	SUM12	2578.	6.58	1044.	324.	312.	4.80		
+	HYDROGRAPH AT	SB28	2583.	6.67	1056.	328.	316.	4.96		
+	HYDROGRAPH AT	SB27	20.	6.08	2.	1.	1.	.03		
+	2 COMBINED AT	SUM13	2586.	6.67	1058.	329.	317.	4.99		
+	ROUTED TO	OFF-29	2583.	6.67	1058.	329.	317.	4.99		
+	HYDROGRAPH AT	X2	324.	6.08	42.	13.	12.	.15		
+	HYDROGRAPH AT	X1A	42.	6.08	5.	2.	2.	.05		
+	4 COMBINED AT	29	4589.	6.25	1677.	571.	550.	8.81		

+	HYDROGRAPH AT	U4A	123.	6.08	15.	5.	5.	.08
+	ROUTED TO	U4A-30	121.	6.17	15.	5.	5.	.08
+	HYDROGRAPH AT	X3	423.	6.08	50.	15.	14.	.19
+	2 COMBINED AT	U4A+X3	530.	6.08	65.	20.	19.	.27
+	2 COMBINED AT	30	4981.	6.25	1740.	591.	569.	9.07
+	ROUTED TO	30-31	4916.	6.25	1740.	591.	569.	9.07
+	HYDROGRAPH AT	U4B	204.	6.08	26.	8.	8.	.16
+	ROUTED TO	U4B-31	204.	6.17	26.	8.	8.	.16
+	HYDROGRAPH AT	X4	354.	6.08	41.	12.	12.	.18
+	2 COMBINED AT	U4B+X4	538.	6.08	66.	21.	20.	.34
+	HYDROGRAPH AT	X5	268.	6.08	31.	9.	9.	.12
+	HYDROGRAPH AT	X1B	101.	6.17	15.	5.	5.	.13
+	4 COMBINED AT	31	5613.	6.25	1851.	626.	603.	9.66
+	ROUTED TO	31-32	5570.	6.25	1850.	625.	602.	9.66
+	HYDROGRAPH AT	Y1	152.	6.08	18.	6.	5.	.12
+	2 COMBINED AT	32	5674.	6.25	1868.	631.	608.	9.78
+	HYDROGRAPH AT	Y2	386.	6.08	48.	14.	14.	.15

*** NORMAL END OF HEC-1 ***

**COTTONWOOD CREEK
DRAINAGE BASIN PLANNING STUDY
AUGUST 24, 1992
APPENDIX B
HEC-2 COMPUTER PRINTOUTS**

 * U.S. ARMY CORPS OF ENGINEERS *
 * THE HYDROLOGIC ENGINEERING CENTER *
 * 609 SECOND STREET, SUITE D *
 * DAVIS, CALIFORNIA 95616 *
 * (916) 440-2105 (FTS) 448-2105 *

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HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
ERROR CORR - 01,02,03,04,05,06
MODIFICATION - 50,51,52,53,54,55,56
IBM-PC-XT VERSION AUGUST 1985
*****
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C
T1 COTTONWOOD CREEK DRAINAGE BASIN PLANNING STUDY
T2 100 YEAR DISCHARGE - PROPOSED SYSTEM - REACH 21-9
T3 FILE HEC2.DAT - URS PROJECT NO. 49209 - 1-30-92

[illegible]

QT	1.000	11152.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.060	.060	.050	.100	.300	.000	.000	.000	.000	.000
	DESIGN POINT 21									
X1	.170	4.000	.000	215.000	.000	.000	.000	.000	.000	.000
GR	6262.000	.000	6238.600	90.000	6238.600	130.000	6258.000	215.000	.000	.000
X1	.280	5.000	25.000	190.000	110.000	110.000	110.000	.000	.000	.000
GR	6264.000	.000	6262.000	25.000	6239.800	85.000	6239.800	146.000	6260.000	190.000
	BRIDGE AT CORPORATE DRIVE									
X1	.330	7.000	182.000	311.000	50.000	50.000	50.000	.000	.000	.000
BT	7.000	.000	6264.000	6264.000	182.000	6262.000	6257.000	215.000	6262.000	6257.000
BT	276.000	6262.000	6257.000	311.000	6262.000	6257.000	550.000	6262.000	6262.000	660.000
BT	6264.000	6264.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	6264.000	.000	6257.000	182.000	6241.200	215.000	6241.200	276.000	6257.000	311.000
GR	6262.000	550.000	6264.000	660.000	.000	.000	.000	.000	.000	.000
X1	.380	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000

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	BRIDGE AT I-25									
X1	.450	9.000	90.900	229.000	70.000	70.000	70.000	.000	.000	.000
BT	9.000	.000	6270.000	6270.000	90.900	6268.000	6264.000	91.000	6268.000	6264.000
BT	204.000	6268.000	6264.000	212.000	6268.000	6264.000	228.900	6268.000	6264.000	229.000
BT	6268.000	6264.000	495.000	6268.000	6268.000	580.000	6270.000	6270.000	.000	.000
GR	6270.000	.000	6264.000	90.900	6244.000	91.000	6246.000	204.000	6251.000	212.000
GR	6252.000	228.900	6264.000	229.000	6268.000	495.000	6270.000	580.000	.000	.000
X1	.590	.000	.000	.000	140.000	140.000	140.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
	DROP STRUCTURE									
X1	.750	7.000	45.000	280.000	170.000	150.000	160.000	.000	.000	.000
GR	6290.000	.000	6260.000	45.000	6252.000	65.000	6246.000	105.000	6246.000	185.000
GR	6260.000	280.000	6268.000	360.000	.000	.000	.000	.000	.000	.000
X1	.790	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	.930	9.000	150.000	340.000	150.000	130.000	140.000	.000	.000	.000
GR	6300.000	.000	6270.000	50.000	6262.000	90.000	6260.000	150.000	6254.000	180.000
GR	6251.000	225.000	6251.000	285.000	6270.000	340.000	6280.000	410.000	.000	.000
X1	1.270	7.000	.000	325.000	340.000	340.000	340.000	.000	.000	.000
GR	6300.000	.000	6280.000	60.000	6260.000	150.000	6254.500	165.000	6254.500	205.000
GR	6270.000	282.000	6290.000	325.000	.000	.000	.000	.000	.000	.000
QT	1.000	11093.000	.000	.000	.000	.000	.000	.000	.000	.000
	BRIDGE AT VINCENT DRIVE & DESIGN POINT 20									
X1	1.470	11.000	179.900	389.000	190.000	210.000	200.000	.000	.000	.000
BT	11.000	.000	6302.000	6302.000	179.900	6301.000	6297.000	180.000	6301.000	6297.000
BT	233.000	6301.000	6297.000	286.000	6301.000	6297.000	304.000	6301.000	6297.000	339.000
BT	6301.000	6297.000	349.000	6301.000	6297.000	388.900	6301.000	6297.000	389.000	6301.000
BT	6297.000	500.000	6302.000	6302.000	.000	.000	.000	.000	.000	.000

GR	6302.000	.000	6297.000	179.900	6285.500	180.000	6269.000	233.000	6263.500	286.000
GR	6256.000	304.000	6256.000	339.000	6262.500	349.000	6291.000	388.900	6297.000	389.000
GR	6302.000	500.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1.500	.000	.000	.000	30.000	30.000	30.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
NC	.060	.060	.015	.100	.300	.000	.000	.000	.000	.000
	BRIDGE AT CURRENT ACCESS ROAD									
X1	1.720	17.000	270.000	319.100	220.000	220.000	220.000	.000	.000	.000
BT	17.000	.000	6310.000	6310.000	100.000	6308.000	6308.000	270.000	6307.000	6274.000
BT	270.100	6307.000	6275.500	275.500	6307.000	6283.500	281.000	6307.000	6285.000	286.500
BT	6307.000	6283.500	292.000	6307.000	6275.500	292.100	6307.000	6274.000	297.000	6307.000
BT	6274.000	297.100	6307.000	6275.500	302.500	6307.000	6283.500	308.000	6307.000	6285.000
BT	313.500	6307.000	6283.500	319.000	6307.000	6275.500	319.100	6307.000	6274.000	350.000
BT	6310.000	6310.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	6310.000	.000	6308.000	100.000	6274.000	270.000	6263.000	270.100	6263.000	275.500
GR	6263.000	281.000	6263.000	286.500	6263.000	292.000	6274.000	292.100	6274.000	297.000
GR	6263.000	297.100	6263.000	302.500	6263.000	308.000	6263.000	313.500	6263.000	319.000
GR	6274.000	319.100	6310.000	350.000	.000	.000	.000	.000	.000	.000

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X1	1.750	.000	.000	.000	30.000	30.000	30.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
NC	.060	.060	.050	.100	.300	.000	.000	.000	.000	.000
X1	1.880	7.000	.000	300.000	120.000	170.000	130.000	.000	.000	.000
GR	6308.000	.000	6290.000	95.000	6267.000	150.000	6267.000	180.000	6290.000	220.000
GR	6300.000	260.000	6310.000	300.000	.000	.000	.000	.000	.000	.000
	DROP STRUCTURE									
X1	2.020	9.000	20.000	320.000	140.000	140.000	140.000	.000	.000	.000
GR	6312.000	.000	6310.000	20.000	6280.000	110.000	6270.000	120.000	6270.000	140.000
GR	6280.000	170.000	6290.000	230.000	6310.000	320.000	6316.000	365.000	.000	.000
X1	2.060	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	2.360	7.000	140.000	340.000	290.000	310.000	300.000	.000	.000	.000
GR	6320.000	.000	6300.000	140.000	6290.000	200.000	6276.600	280.000	6276.600	300.000
GR	6310.000	340.000	6320.000	390.000	.000	.000	.000	.000	.000	.000
X1	2.710	9.000	10.000	100.000	290.000	410.000	350.000	.000	.000	.000
GR	6326.000	.000	6320.000	10.000	6283.500	65.000	6283.500	85.000	6286.000	100.000
GR	6288.000	150.000	6296.000	200.000	6298.000	350.000	6304.000	480.000	.000	.000
X1	3.030	8.000	8.000	240.000	400.000	240.000	320.000	.000	.000	.000
GR	6332.000	.000	6330.000	8.000	6300.000	62.000	6289.000	105.000	6289.000	130.000
GR	6299.000	235.000	6300.000	240.000	6304.000	430.000	.000	.000	.000	.000
X1	3.420	9.000	90.000	325.000	410.000	370.000	390.000	.000	.000	.000
GR	6336.000	.000	6330.000	20.000	6320.000	90.000	6310.000	105.000	6294.000	165.000
GR	6294.000	190.000	6300.000	245.000	6320.000	325.000	6330.000	405.000	.000	.000
X1	3.760	8.000	170.000	340.000	310.000	370.000	340.000	.000	.000	.000

GR	6340.000	.000	6330.000	65.000	6320.000	110.000	6310.000	170.000	6301.000	180.000
GR	6301.000	205.000	6310.000	265.000	6340.000	340.000	.000	.000	.000	.000
QT	1.000	11101.000	.000	.000	.000	.000	.000	.000	.000	.000
	DROP STRUCTURE & DESIGN POINT 19									
X1	4.270	8.000	5.000	170.000	520.000	500.000	510.000	.000	.000	.000
GR	6342.000	.000	6340.000	5.000	6320.000	45.000	6308.000	130.000	6308.000	160.000
GR	6310.000	170.000	6330.000	340.000	6340.000	380.000	.000	.000	.000	.000
X1	4.310	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	4.690	8.000	.000	175.000	390.000	370.000	380.000	.000	.000	.000
GR	6350.000	.000	6330.000	60.000	6320.000	110.000	6316.000	130.000	6316.000	160.000
GR	6320.000	175.000	6322.000	225.000	6350.000	355.000	.000	.000	.000	.000
X1	5.060	8.000	.000	158.000	360.000	380.000	370.000	.000	.000	.000
GR	6356.000	.000	6330.000	70.000	6322.000	100.000	6322.000	115.000	6324.000	158.000
GR	6328.000	205.000	6340.000	245.000	6360.000	325.000	.000	.000	.000	.000

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	DROP STRUCTURE									
X1	5.300	10.000	.000	355.000	270.000	210.000	240.000	.000	.000	.000
GR	6374.000	.000	6360.000	60.000	6350.000	90.000	6340.000	100.000	6330.000	128.000
GR	6326.000	155.000	6326.000	195.000	6340.000	250.000	6360.000	320.000	6368.000	355.000
X1	5.340	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	5.780	10.000	.000	305.000	330.000	550.000	440.000	.000	.000	.000
GR	6382.000	.000	6340.000	45.000	6334.600	60.000	6334.600	75.000	6336.000	80.000
GR	6338.000	95.000	6340.000	130.000	6360.000	230.000	6370.000	260.000	6374.000	305.000
	DROP STRUCTURE									
X1	5.920	9.000	30.000	325.000	170.000	110.000	140.000	.000	.000	.000
GR	6390.000	.000	6380.000	30.000	6350.000	80.000	6335.700	122.900	6335.700	202.100
GR	6340.000	215.000	6350.000	235.000	6360.000	290.000	6370.000	325.000	.000	.000
X1	5.950	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	6.220	6.000	.000	240.000	270.000	270.000	270.000	.000	.000	.000
GR	6390.000	.000	6350.000	85.000	6342.000	110.000	6342.000	125.000	6350.000	195.000
GR	6384.000	240.000	.000	.000	.000	.000	.000	.000	.000	.000
	DROP STRUCTURE									
X1	6.460	4.000	.000	118.000	240.000	240.000	240.000	.000	.000	.000
GR	6359.000	.000	6347.000	24.000	6347.000	94.000	6359.000	118.000	.000	.000
X1	6.490	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	6.600	4.000	.000	128.000	140.000	140.000	140.000	.000	.000	.000
GR	6364.000	.000	6352.000	24.000	6352.000	104.000	6364.000	128.000	.000	.000
NC	.060	.060	.040	.100	.300	.000	.000	.000	.000	.000
	DROP STRUCTURE									
X1	6.780	.000	.000	.000	210.000	150.000	180.000	.000	.750	.000

X1	6.810	.000	.000	.000	30.000	30.000	30.000	.000	4.000	.000
X1	7.025	.000	.000	.000	250.000	180.000	215.000	.000	4.890	.000
X1	7.225	.000	.000	.000	225.000	175.000	200.000	.000	4.490	.000
X1	7.425	.000	.000	.000	170.000	230.000	200.000	.000	4.490	.000
X1	7.600	.000	.000	.000	145.000	205.000	175.000	.000	3.450	.000
X1	7.675	.000	.000	.000	75.000	75.000	75.000	.000	1.480	.000
NC	.060	.060	.015	.100	.300	.000	.000	.000	.000	.000

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BOX CULVERTS AT ACADEMY BLVD. & DESIGN POINT 18

X1	7.747	22.000	299.900	404.000	72.000	72.000	72.000	.000	.000	.000
BT	22.000	.000	6394.000	6394.000	299.900	6392.000	6386.000	300.000	6392.000	6386.000
BT	319.900	6392.000	6386.000	320.000	6392.000	6386.000	320.900	6392.000	6386.000	321.000
BT	6392.000	6386.000	340.900	6392.000	6386.000	341.000	6392.000	6386.000	341.900	6392.000
BT	6386.000	342.000	6392.000	6386.000	361.900	6392.000	6386.000	362.000	6392.000	6386.000
BT	362.900	6392.000	6386.000	363.000	6392.000	6386.000	382.900	6392.000	6386.000	383.000
BT	6392.000	6386.000	383.900	6392.000	6386.000	384.000	6392.000	6386.000	403.900	6392.000
BT	6386.000	404.000	6392.000	6386.000	560.000	6396.000	6396.000	.000	.000	.000
GR	6394.000	.000	6386.000	299.900	6377.000	300.000	6377.000	319.900	6386.000	320.000
GR	6386.000	320.900	6377.000	321.000	6377.000	340.900	6386.000	341.000	6386.000	341.900
GR	6377.000	342.000	6377.000	361.900	6386.000	362.000	6386.000	362.900	6377.000	363.000
GR	6377.000	382.900	6386.000	383.000	6386.000	383.900	6377.000	384.000	6377.000	403.900
GR	6386.000	404.000	6396.000	560.000	.000	.000	.000	.000	.000	.000
QT	1.000	9978.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	7.846	22.000	299.900	404.000	99.000	99.000	99.000	.000	.000	.000
BT	22.000	.000	6394.000	6394.000	299.900	6392.000	6388.900	300.000	6392.000	6388.900
BT	319.900	6392.000	6388.900	320.000	6392.000	6388.900	320.900	6392.000	6388.900	321.000
BT	6392.000	6388.900	340.900	6392.000	6388.900	341.000	6392.000	6388.900	341.900	6392.000
BT	6388.900	342.000	6392.000	6388.900	361.900	6392.000	6388.900	362.000	6392.000	6388.900
BT	362.900	6392.000	6388.900	363.000	6392.000	6388.900	382.900	6392.000	6388.900	383.000
BT	6392.000	6388.900	383.900	6392.000	6388.900	384.000	6392.000	6388.900	403.900	6392.000
BT	6388.900	404.000	6392.000	6388.900	560.000	6396.000	6396.000	.000	.000	.000
GR	6394.000	.000	6388.900	299.900	6379.900	300.000	6379.900	319.900	6388.900	320.000
GR	6388.900	320.900	6379.900	321.000	6379.900	340.900	6388.900	341.000	6388.900	341.900
GR	6379.900	342.000	6379.900	361.900	6388.900	362.000	6388.900	362.900	6379.900	363.000
GR	6379.900	382.900	6388.900	383.000	6388.900	383.900	6379.900	384.000	6379.900	403.900
GR	6388.900	404.000	6396.000	560.000	.000	.000	.000	.000	.000	.000
NC	.060	.060	.050	.100	.300	.000	.000	.000	.000	.000
	DROP STRUCTURE									
X1	7.971	4.000	.000	163.000	125.000	125.000	125.000	.000	.000	.000
GR	6393.500	.000	6381.500	24.000	6381.500	139.000	6393.500	163.000	.000	.000
X1	7.994	.000	.000	.000	23.000	23.000	23.000	.000	3.980	.000
	DROP STRUCTURE									
X1	8.146	.000	.000	.000	152.000	152.000	152.000	.000	.630	.000

X1	8.175	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
	DROP STRUCTURE									
X1	8.346	.000	.000	.000	171.000	171.000	171.000	.000	.740	.000
X1	8.375	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
X1	8.498	.000	.000	.000	123.000	123.000	123.000	.000	.730	.000

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	DROP STRUCTURE									
X1	8.621	.000	.000	.000	123.000	123.000	123.000	.000	.460	.000
X1	8.650	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
X1	8.777	.000	.000	.000	127.000	127.000	127.000	.000	.750	.000
	DROP STRUCTURE									
X1	8.904	.000	.000	.000	127.000	127.000	127.000	.000	.530	.000
X1	8.925	.000	.000	.000	21.000	21.000	21.000	.000	3.000	.000
X1	9.048	.000	.000	.000	123.000	123.000	123.000	.000	.730	.000
	DROP STRUCTURE									
X1	9.171	.000	.000	.000	123.000	123.000	123.000	.000	.460	.000
X1	9.200	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
X1	9.323	.000	.000	.000	123.000	123.000	123.000	.000	.730	.000
	DROP STRUCTURE									
X1	9.446	.000	.000	.000	123.000	123.000	123.000	.000	.450	.000
X1	9.475	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
X1	9.598	.000	.000	.000	123.000	123.000	123.000	.000	.730	.000
	DROP STRUCTURE									
X1	9.721	.000	.000	.000	123.000	123.000	123.000	.000	.460	.000
X1	9.750	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
X1	9.873	.000	.000	.000	123.000	123.000	123.000	.000	.730	.000
	DROP STRUCTURE									
X1	9.996	.000	.000	.000	123.000	123.000	123.000	.000	.460	.000
X1	10.025	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
X1	10.152	.000	.000	.000	127.000	127.000	127.000	.000	.750	.000

DROP STRUCTURE

X1	10.279	.000	.000	.000	127.000	127.000	127.000	.000	.530	.000
X1	10.300	.000	.000	.000	21.000	21.000	21.000	.000	3.000	.000
X1	10.427	.000	.000	.000	127.000	127.000	127.000	.000	.750	.000

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QT	1.000	9818.000	.000	.000	.000	.000	.000	.000	.000	.000
	DROP STRUCTURE & DESIGN POINT 17									
X1	10.554	.000	.000	.000	127.000	127.000	127.000	.000	.530	.000
X1	10.575	.000	.000	.000	21.000	21.000	21.000	.000	3.000	.000
X1	10.698	.000	.000	.000	123.000	123.000	123.000	.000	.730	.000
	DROP STRUCTURE									
X1	10.821	.000	.000	.000	123.000	123.000	123.000	.000	.460	.000
X1	10.850	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
	DROP STRUCTURE									
X1	11.009	.000	.000	.000	159.000	159.000	159.000	.000	.710	.000
X1	11.030	.000	.000	.000	21.000	21.000	21.000	.000	3.000	.000
	DROP STRUCTURE									
X1	11.196	.000	.000	.000	166.000	166.000	166.000	.000	.710	.000
X1	11.225	.000	.000	.000	29.000	29.000	29.000	.000	4.000	.000
X1	11.500	5.000	.000	270.000	275.000	275.000	275.000	.000	.000	.000
GR	6466.000	.000	6460.000	80.000	6454.000	90.000	6454.000	210.000	6466.000	270.000
X1	11.700	5.000	.000	310.000	200.000	200.000	200.000	.000	.000	.000
GR	6470.000	.000	6464.000	110.000	6456.000	135.000	6456.400	255.000	6468.000	310.000
	DROP STRUCTURE									
X1	11.890	4.000	.000	230.000	190.000	190.000	190.000	.000	.000	.000
GR	6472.000	.000	6458.000	70.000	6458.000	180.000	6476.000	230.000	.000	.000
X1	11.930	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	12.100	4.000	.000	222.000	170.000	170.000	170.000	.000	.000	.000
GR	6477.000	.000	6463.000	56.000	6463.000	166.000	6477.000	222.000	.000	.000
	DROP STRUCTURE									
X1	12.330	4.000	.000	232.000	230.000	230.000	230.000	.000	.000	.000
GR	6478.400	.000	6464.400	56.000	6464.400	176.000	6478.400	232.000	.000	.000
X1	12.360	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000

DROP STRUCTURE

X1	12.590	4.000	.000	164.000	230.000	230.000	230.000	.000	.000	.000
GR	6482.000	.000	6468.000	42.000	6468.000	122.000	6482.000	164.000	.000	.000

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X1	12.630	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	12.880	4.000	.000	136.000	230.000	270.000	250.000	.000	.000	.000
GR	6487.500	.000	6473.500	28.000	6473.500	108.000	6487.500	136.000	.000	.000
X1	13.130	.000	.000	.000	230.000	270.000	250.000	.000	1.500	.000
X1	13.280	.000	.000	.000	130.000	170.000	150.000	.000	.900	.000
NC	.060	.060	.150	.100	.300	.000	.000	.000	.000	.000
BOX CULVERTS AT UNION BLVD. & DESIGN POINT 16										
X1	13.330	7.000	149.900	270.100	50.000	50.000	50.000	.000	.000	.000
BT	7.000	.000	6506.000	6506.000	149.900	6504.000	6485.200	150.000	6504.000	6485.200
BT	270.000	6500.000	6485.200	270.100	6500.000	6485.200	420.000	6497.800	6497.800	550.000
BT	6500.000	6500.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	6506.000	.000	6485.200	149.900	6476.200	150.000	6476.200	270.000	6485.200	270.100
GR	6497.800	420.000	6500.000	550.000	.000	.000	.000	.000	.000	.000
QT	1.000	9399.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.060	.060	.050	.100	.300	.000	.000	.000	.000	.000
BOX CULVERTS AT UNION BLVD - LOWERED TO ELEV. 6488										
X1	13.550	10.000	232.000	452.000	220.000	220.000	220.000	.000	.000	.000
GR	6510.000	.000	6508.000	125.000	6504.000	232.000	6488.000	280.000	6488.000	.000
GR	6502.000	452.000	6498.000	520.000	6498.000	760.000	6500.000	860.000	6510.000	410.000
DROP STRUCTURE										
X1	13.640	10.000	232.000	452.000	90.000	90.000	90.000	.000	.000	.000
GR	6510.000	.000	6508.000	125.000	6504.000	232.000	6488.600	280.000	6488.600	.000
GR	6502.000	452.000	6498.000	520.000	6498.000	760.000	6500.000	860.000	6510.000	410.000
X1	13.670	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
DROP STRUCTURE										
X1	13.940	9.000	75.000	280.000	280.000	260.000	270.000	.000	.000	.000
GR	6518.000	.000	6510.000	75.000	6502.000	115.000	6493.800	138.400	6493.800	.000
GR	6502.000	265.000	6505.000	280.000	6502.200	350.000	6504.000	550.000	.000	241.600
X1	13.970	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
DROP STRUCTURE										
X1	14.230	8.000	.000	250.000	270.000	250.000	260.000	.000	.000	.000
GR	6520.000	.000	6507.000	80.000	6498.900	102.500	6498.900	198.500	6505.000	.000
GR	6509.000	250.000	6507.500	300.000	6509.000	420.000	.000	.000	.000	215.000
X1	14.260	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
DROP STRUCTURE										
X1	14.530	8.000	.000	220.000	280.000	260.000	270.000	.000	.000	.000
GR	6520.000	.000	6510.000	50.000	6504.100	65.600	6504.100	184.400	6510.000	.000

GR	6514.500	220.000	6512.700	280.000	6515.000	400.000	.000	.000	.000	.000
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X1	14.560	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
	DROP STRUCTURE									
X1	14.830	8.000	130.000	285.000	280.000	260.000	270.000	.000	.000	.000
GR	6530.000	.000	6524.000	45.000	6520.000	90.000	6514.000	130.000	6509.200	141.700
GR	6509.200	243.300	6514.000	255.000	6517.000	285.000	.000	.000	.000	.000
X1	14.860	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
	DROP STRUCTURE									
X1	15.130	7.000	60.000	265.000	280.000	260.000	270.000	.000	.000	.000
GR	6530.000	.000	6526.000	60.000	6518.000	100.000	6514.400	107.800	6514.400	227.200
GR	6518.000	235.000	6522.900	265.000	.000	.000	.000	.000	.000	.000
X1	15.160	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
	DROP STRUCTURE									
X1	15.430	8.000	120.000	315.000	270.000	270.000	270.000	.000	.000	.000
GR	6540.000	.000	6530.000	75.000	6528.000	120.000	6523.000	150.000	6519.500	156.900
GR	6519.500	283.100	6523.000	290.000	6528.400	315.000	.000	.000	.000	.000
X1	15.460	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
	DROP STRUCTURE									
X1	15.740	7.000	.000	290.000	280.000	280.000	280.000	.000	.000	.000
GR	6540.000	.000	6528.000	90.000	6524.800	96.000	6524.800	244.000	6528.000	250.000
GR	6532.000	290.000	6536.000	360.000	.000	.000	.000	.000	.000	.000
X1	15.770	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
QT	1.000	8776.000	.000	.000	.000	.000	.000	.000	.000	.000
	DROP STRUCTURE & DESIGN PT. 15									
X1	16.040	5.000	90.000	300.000	270.000	270.000	270.000	.000	.000	.000
GR	6548.000	.000	6540.000	90.000	6529.900	150.000	6529.900	270.000	6538.000	300.000
X1	16.070	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
	DROP STRUCTURE									
X1	16.350	6.000	135.000	445.000	280.000	280.000	280.000	.000	.000	.000
GR	6568.000	.000	6550.000	135.000	6535.200	175.000	6535.200	410.000	6542.000	445.000
GR	6544.000	500.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	16.380	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
	DROP STRUCTURE									
X1	16.660	5.000	.000	270.000	280.000	280.000	280.000	.000	.000	.000
GR	6552.000	.000	6540.400	60.000	6540.400	250.000	6548.000	270.000	6552.000	310.000
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X1	16.690	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
DROP STRUCTURE										
X1	16.930	7.000	20.000	210.000	240.000	240.000	240.000	.000	.000	.000
GR	6558.000	.000	6554.000	20.000	6545.300	50.000	6545.300	120.000	6548.000	170.000
GR	6554.000	210.000	6555.000	260.000	.000	.000	.000	.000	.000	.000
X1	16.960	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
DROP STRUCTURE										
X1	17.170	5.000	.000	220.000	210.000	210.000	210.000	.000	.000	.000
GR	6562.500	.000	6550.000	40.000	6550.000	195.000	6556.000	220.000	6558.000	285.000
X1	17.200	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	17.430	5.000	.000	305.000	220.000	240.000	230.000	.000	.000	.000
GR	6566.000	.000	6558.000	25.000	6556.000	40.000	6556.000	265.000	6568.000	305.000
QT	1.000	8585.000	.000	.000	.000	.000	.000	.000	.000	.000
DESIGN PT. 14										
X1	17.700	5.000	.000	325.000	250.000	280.000	270.000	.000	.000	.000
GR	6570.000	.000	6560.000	50.000	6558.200	140.000	6560.000	240.000	6572.000	325.000
X1	18.000	7.000	.000	400.000	290.000	310.000	300.000	.000	.000	.000
GR	6578.000	.000	6564.000	55.000	6563.000	115.000	6564.200	195.000	6563.500	295.000
GR	6566.000	360.000	6578.000	400.000	.000	.000	.000	.000	.000	.000
X1	18.300	8.000	.000	380.000	300.000	300.000	300.000	.000	.000	.000
GR	6582.000	.000	6568.000	50.000	6566.200	70.000	6567.000	160.000	6566.500	245.000
GR	6568.000	315.000	6570.000	340.000	6582.000	380.000	.000	.000	.000	.000
X1	18.600	8.000	35.000	435.000	300.000	300.000	300.000	.000	.000	.000
GR	6584.000	.000	6580.000	35.000	6570.000	75.000	6569.000	90.000	6570.000	115.000
GR	6572.000	345.000	6574.000	395.000	6582.000	435.000	.000	.000	.000	.000
X1	18.900	7.000	.000	235.000	300.000	300.000	300.000	.000	.000	.000
GR	6584.000	.000	6574.000	50.000	6573.700	105.000	6574.000	135.000	6578.000	235.000
GR	6580.000	415.000	6584.000	435.000	.000	.000	.000	.000	.000	.000
X1	19.150	10.000	.000	260.000	250.000	250.000	250.000	.000	.000	.000
GR	6590.000	.000	6580.000	40.000	6578.000	160.000	6580.000	225.000	6582.000	260.000
GR	6583.000	310.000	6582.000	410.000	6584.000	430.000	6586.000	460.000	6587.000	570.000
X1	19.450	9.000	.000	280.000	300.000	300.000	300.000	.000	.000	.000
GR	6594.000	.000	6590.000	15.000	6582.000	80.000	6583.000	155.000	6582.000	265.000
GR	6586.000	280.000	6588.000	355.000	6590.000	570.000	6594.000	630.000	.000	.000
QT	1.000	4681.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.060	.060	.030	.100	.300	.000	.000	.000	.000	.000

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X1	19.780	32.000	285.000	415.200	380.000	280.000	330.000	.000	.000	.000
BT	32.000	.000	6614.000	6614.000	90.000	6612.000	6612.000	285.000	6611.000	6595.800
BT	286.000	6611.000	6598.600	290.800	6611.000	6602.200	297.600	6611.000	6603.200	303.400
BT	6611.000	6602.200	309.200	6611.000	6598.600	310.200	6611.000	6595.800	320.000	6611.000
BT	6595.800	321.000	6611.000	6598.600	325.800	6611.000	6602.200	332.600	6611.000	6603.200

BT	338.400	6611.000	6602.200	344.200	6611.000	6598.600	345.200	6611.000	6595.800	355.000
BT	6611.000	6595.800	356.000	6611.000	6598.600	360.800	6611.000	6602.200	367.600	6611.000
BT	6603.200	373.400	6611.000	6602.200	379.200	6611.000	6598.600	380.200	6611.000	6595.800
BT	390.000	6611.000	6595.800	391.000	6611.000	6598.600	395.800	6611.000	6602.200	402.600
BT	6611.000	6603.200	408.400	6611.000	6602.200	414.200	6611.000	6598.600	415.200	6611.000
BT	6595.800	490.000	6612.000	6612.000	670.000	6614.000	6614.000	.000	.000	.000
GR	6614.000	.000	6612.000	90.000	6595.800	285.000	6590.000	286.000	6590.000	290.800
GR	6590.000	297.600	6590.000	303.400	6590.000	309.200	6595.800	310.200	6595.800	320.000
GR	6590.000	321.000	6590.000	325.800	6590.000	332.600	6590.000	338.400	6590.000	344.200
GR	6595.800	345.200	6595.800	355.000	6590.000	356.000	6590.000	360.800	6590.000	367.600
GR	6590.000	373.400	6590.000	379.200	6595.800	380.200	6595.800	390.000	6590.000	391.000
GR	6590.000	395.800	6590.000	402.600	6590.000	408.400	6590.000	414.200	6595.800	415.200
GR	6612.000	490.000	6614.000	670.000	.000	.000	.000	.000	.000	.000

X1	19.950	.000	.000	.000	170.000	170.000	170.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000

NC	.060	.060	.050	.100	.300	.000	.000	.000	.000	.000
X1	20.160	10.000	50.000	315.000	250.000	170.000	210.000	.000	.000	.000
GR	6614.000	.000	6610.000	50.000	6600.000	70.000	6596.000	120.000	6594.400	160.000
GR	6596.000	264.000	6598.000	270.000	6610.000	315.000	6612.000	345.000	6614.000	550.000

X1	20.400	7.000	.000	380.000	240.000	240.000	240.000	.000	.000	.000
GR	6620.000	.000	6604.000	80.000	6602.000	100.000	6598.400	200.000	6598.400	340.000
GR	6612.000	380.000	6614.000	725.000	.000	.000	.000	.000	.000	.000

DROP STRUCTURE										
X1	20.480	.000	.000	.000	80.000	80.000	80.000	.000	.820	.000

X1	20.510	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	20.700	7.000	.000	370.000	190.000	190.000	190.000	.000	.000	.000
GR	6620.000	.000	6604.500	80.000	6604.500	275.000	6606.000	340.000	6614.000	370.000
GR	6616.000	415.000	6618.000	630.000	.000	.000	.000	.000	.000	.000

DROP STRUCTURE										
X1	20.980	10.000	.000	395.000	280.000	280.000	280.000	.000	.000	.000
GR	6630.000	.000	6620.000	75.000	6612.000	115.000	6610.000	150.000	6607.400	220.000
GR	6607.400	335.000	6610.000	365.000	6618.000	395.000	6620.000	610.000	6630.000	735.000

X1	21.010	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	21.300	10.000	75.000	430.000	290.000	290.000	290.000	.000	.000	.000
GR	6640.000	.000	6630.000	75.000	6620.000	110.000	6618.000	125.000	6616.000	170.000
GR	6613.400	205.000	6613.400	290.000	6614.000	370.000	6624.000	430.000	6636.000	660.000

X1	21.500	.000	.000	.000	200.000	200.000	200.000	.000	2.040	.000
X1	21.530	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	21.600	7.000	40.000	430.000	70.000	70.000	70.000	.000	.000	.000
GR	6640.000	.000	6636.000	40.000	6620.000	140.000	6619.400	215.000	6619.400	300.000

GR	6620.000	370.000	6638.000	430.000	.000	.000	.000	.000	.000	.000
X1	21.900	7.000	180.000	470.000	310.000	290.000	300.000	.000	.000	.000
GR	6640.000	.000	6630.000	180.000	6626.000	230.000	6622.500	240.000	6622.500	330.000
GR	6626.000	375.000	6654.000	470.000	.000	.000	.000	.000	.000	.000

DROP STRUCTURE										
X1	22.080	.000	.000	.000	180.000	180.000	180.000	.000	1.840	.000
X1	22.110	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	22.200	7.000	140.000	420.000	90.000	90.000	90.000	.000	.000	.000
GR	6640.000	.000	6638.000	140.000	6630.000	180.000	6628.600	225.000	6628.600	285.000
GR	6630.000	325.000	6660.000	420.000	.000	.000	.000	.000	.000	.000

DROP STRUCTURE										
X1	22.390	.000	.000	.000	190.000	190.000	190.000	.000	1.940	.000
X1	22.420	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	22.500	7.000	115.000	320.000	80.000	80.000	80.000	.000	.000	.000
GR	6646.000	.000	6644.000	50.000	6642.000	115.000	6634.600	150.000	6634.600	230.000
GR	6640.000	250.000	6670.000	320.000	.000	.000	.000	.000	.000	.000

DROP STRUCTURE										
X1	22.840	9.000	155.000	430.000	240.000	240.000	240.000	.000	.000	.000
GR	6654.000	.000	6650.000	125.000	6648.000	155.000	6642.000	200.000	6644.000	220.000
GR	6638.400	240.000	6638.400	320.000	6640.000	345.000	6680.000	430.000	.000	.000

X1	22.870	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	23.100	5.000	.000	245.000	230.000	230.000	230.000	.000	.000	.000
GR	6656.000	.000	6652.000	40.000	6643.700	78.000	6643.700	183.000	6660.000	245.000

DROP STRUCTURE										
X1	23.180	.000	.000	.000	80.000	80.000	80.000	.000	.820	.000
X1	23.210	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000

X1	23.400	7.000	90.000	307.000	190.000	190.000	190.000	.000	.000	.000
GR	6670.000	.000	6666.000	50.000	6664.000	90.000	6649.800	152.000	6649.800	257.000
GR	6660.000	307.000	6680.000	390.000	.000	.000	.000	.000	.000	.000

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DROP STRUCTURE										
X1	23.550	.000	.000	.000	150.000	150.000	150.000	.000	1.530	.000

X1	23.580	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	23.700	5.000	.000	290.000	120.000	120.000	120.000	.000	.000	.000
GR	6676.000	.000	6655.900	84.000	6655.900	189.000	6670.000	255.000	6680.000	290.000

DROP STRUCTURE										
X1	23.890	.000	.000	.000	190.000	190.000	190.000	.000	1.940	.000

X1	23.920	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	23.950	5.000	50.000	250.000	30.000	30.000	30.000	.000	.000	.000
GR	6690.000	.000	6680.000	50.000	6661.500	100.000	6661.500	220.000	6670.000	250.000

DROP STRUCTURE										
X1	24.250	5.000	.000	285.000	300.000	300.000	300.000	.000	.000	.000
GR	6680.000	.000	6664.900	66.000	6664.900	200.000	6670.000	235.000	6680.000	285.000

X1	24.280	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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DROP STRUCTURE										
X1	24.500	7.000	105.000	385.000	220.000	220.000	220.000	.000	.000	.000
GR	6690.000	.000	6680.000	90.000	6678.000	105.000	6670.200	152.000	6670.200	257.000
GR	6680.000	330.000	6690.000	385.000	.000	.000	.000	.000	.000	.000

X1	24.530	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	24.850	6.000	90.000	290.000	350.000	290.000	320.000	.000	.000	.000
GR	6690.000	.000	6686.000	90.000	6674.500	117.000	6674.500	231.000	6680.000	240.000
GR	6690.000	290.000	.000	.000	.000	.000	.000	.000	.000	.000

X1	25.070	4.000	.000	235.000	310.000	210.000	220.000	.000	.000	.000
GR	6710.000	.000	6675.400	80.000	6675.400	185.000	6710.000	235.000	.000	.000

QT	1.000	4014.000	.000	.000	.000	.000	.000	.000	.000	.000
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BRIDGE AT WOODMEN ROAD - DESIGN POINT 12										
X1	25.230	8.000	180.000	290.100	200.000	150.000	160.000	.000	.000	.000
BT	8.000	.000	6706.000	6706.000	180.000	6705.000	6700.000	180.100	6705.000	6700.000
BT	215.000	6705.000	6700.000	255.000	6705.000	6700.000	290.000	6705.000	6700.000	290.100
BT	6705.000	6700.000	540.000	6706.000	6706.000	.000	.000	.000	.000	.000
GR	6706.000	.000	6700.000	180.000	6690.000	180.100	6676.000	215.000	6676.000	255.000
GR	6690.000	290.000	6700.000	290.100	6706.000	540.000	.000	.000	.000	.000

X1	25.360	.000	.000	.000	130.000	130.000	130.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000

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DROP STRUCTURE										
X1	25.470	4.000	.000	130.000	90.000	160.000	110.000	.000	.000	.000
GR	6690.800	.000	6676.800	35.000	6676.800	95.000	6690.800	130.000	.000	.000

X1	25.495	.000	.000	.000	25.000	25.000	25.000	.000	5.200	.000
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BRIDGE AT AUSTIN BLUFFS PARKWAY

X1	25.630	8.000	180.000	290.100	135.000	135.000	135.000	.000	.000	.000
BT	8.000	.000	6706.000	6706.000	180.000	6705.000	6700.000	180.100	6705.000	6700.000
BT	215.000	6705.000	6700.000	255.000	6705.000	6700.000	290.000	6705.000	6700.000	290.100
BT	6705.000	6700.000	540.000	6706.000	6706.000	.000	.000	.000	.000	.000
GR	6706.000	.000	6700.000	180.000	6697.000	180.100	6683.000	215.000	6683.000	255.000
GR	6697.000	290.000	6700.000	290.100	6706.000	540.000	.000	.000	.000	.000

DROP STRUCTURE

X1	25.760	.000	.000	.000	130.000	130.000	130.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
X1	25.790	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000

DROP STRUCTURE

X1	26.010	4.000	.000	148.000	180.000	260.000	220.000	.000	.000	.000
GR	6697.000	.000	6689.000	24.000	6689.000	124.000	6697.000	148.000	.000	.000

X1	26.040	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	26.160	4.000	.000	133.000	130.000	110.000	120.000	.000	.000	.000
GR	6701.000	.000	6693.000	24.000	6693.000	109.000	6701.000	133.000	.000	.000

DROP STRUCTURE

X1	26.320	4.000	.000	128.000	190.000	130.000	160.000	.000	.000	.000
GR	6702.300	.000	6694.300	24.000	6694.300	104.000	6702.300	128.000	.000	.000

X1	26.350	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	26.500	4.000	.000	128.000	160.000	140.000	150.000	.000	.000	.000
GR	6706.500	.000	6698.500	24.000	6698.500	104.000	6706.500	128.000	.000	.000

DROP STRUCTURE

X1	26.640	4.000	.000	128.000	150.000	130.000	140.000	.000	.000	.000
GR	6707.700	.000	6699.700	24.000	6699.700	104.000	6707.700	128.000	.000	.000

X1	26.670	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	26.800	4.000	.000	128.000	130.000	130.000	130.000	.000	.000	.000
GR	6711.800	.000	6703.800	24.000	6703.800	104.000	6711.800	128.000	.000	.000

DROP STRUCTURE

X1	26.940	4.000	.000	133.000	140.000	140.000	140.000	.000	.000	.000
GR	6712.900	.000	6704.900	24.000	6704.900	109.000	6712.900	133.000	.000	.000

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X1	26.970	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	27.120	4.000	.000	133.000	110.000	210.000	150.000	.000	.000	.000
GR	6717.100	.000	6709.100	24.000	6709.100	109.000	6717.100	133.000	.000	.000

DROP STRUCTURE

X1	27.200	4.000	.000	138.000	40.000	120.000	80.000	.000	.000	.000
GR	6717.800	.000	6709.800	24.000	6709.800	114.000	6717.800	138.000	.000	.000

X1	27.230	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	27.350	4.000	.000	148.000	120.000	120.000	120.000	.000	.000	.000
GR	6721.800	.000	6713.800	24.000	6713.800	124.000	6721.800	148.000	.000	.000

DROP STRUCTURE										
X1	27.540	4.000	.000	148.000	240.000	80.000	190.000	.000	.000	.000
GR	6723.300	.000	6715.300	24.000	6715.300	124.000	6723.300	148.000	.000	.000

X1	27.570	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	27.700	4.000	.000	158.000	150.000	110.000	130.000	.000	.000	.000
GR	6727.400	.000	6719.400	24.000	6719.400	134.000	6727.400	158.000	.000	.000

DROP STRUCTURE										
X1	27.860	4.000	.000	158.000	200.000	100.000	160.000	.000	.000	.000
GR	6728.700	.000	6720.700	24.000	6720.700	134.000	6728.700	158.000	.000	.000

X1	27.890	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	28.020	4.000	.000	158.000	140.000	120.000	130.000	.000	.000	.000
GR	6732.800	.000	6724.800	24.000	6724.800	134.000	6732.800	158.000	.000	.000

DROP STRUCTURE										
X1	28.170	4.000	.000	148.000	150.000	150.000	150.000	.000	.000	.000
GR	6734.000	.000	6726.000	24.000	6726.000	124.000	6734.000	148.000	.000	.000

X1	28.200	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	28.330	4.000	.000	138.000	110.000	150.000	130.000	.000	.000	.000
GR	6738.100	.000	6730.100	24.000	6730.100	114.000	6738.100	138.000	.000	.000

DROP STRUCTURE										
X1	28.470	4.000	.000	138.000	110.000	170.000	140.000	.000	.000	.000
GR	6739.200	.000	6731.200	24.000	6731.200	114.000	6739.200	138.000	.000	.000

X1	28.500	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	28.640	4.000	.000	138.000	140.000	140.000	140.000	.000	.000	.000
GR	6743.300	.000	6735.300	24.000	6735.300	114.000	6743.300	138.000	.000	.000

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DROP STRUCTURE										
X1	28.780	4.000	.000	138.000	140.000	140.000	140.000	.000	.000	.000
GR	6744.500	.000	6736.500	24.000	6736.500	114.000	6744.500	138.000	.000	.000

X1	28.810	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
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X1	28.930	4.000	.000	148.000	100.000	140.000	120.000	.000	.000	.000
GR	6748.500	.000	6740.500	24.000	6740.500	124.000	6748.500	148.000	.000	.000

DROP STRUCTURE

X1	29.050	4.000	.000	158.000	60.000	180.000	120.000	.000	.000	.000
GR	6749.500	.000	6741.500	24.000	6741.500	134.000	6749.500	158.000	.000	.000
X1	29.090	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	29.200	4.000	.000	158.000	120.000	100.000	110.000	.000	.000	.000
GR	6754.400	.000	6746.400	24.000	6746.400	134.000	6754.400	158.000	.000	.000
	DROP STRUCTURE									
X1	29.360	4.000	.000	158.000	230.000	100.000	160.000	.000	.000	.000

GR	6755.700	.000	6747.700	24.000	6747.700	134.000	6755.700	158.000	.000	.000
X1	29.400	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	29.530	4.000	.000	138.000	190.000	70.000	130.000	.000	.000	.000
GR	6760.700	.000	6752.700	24.000	6752.700	114.000	6760.700	138.000	.000	.000
	DROP STRUCTURE									
X1	29.640	4.000	.000	148.000	110.000	110.000	110.000	.000	.000	.000
GR	6761.600	.000	6753.600	24.000	6753.600	124.000	6761.600	148.000	.000	.000
X1	29.680	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000
X1	29.800	4.000	.000	148.000	110.000	130.000	120.000	.000	.000	.000
GR	6766.600	.000	6758.600	24.000	6758.600	124.000	6766.600	148.000	.000	.000
	DROP STRUCTURE									
X1	29.940	4.000	.000	128.000	130.000	150.000	140.000	.000	.000	.000
GR	6767.700	.000	6759.700	24.000	6759.700	104.000	6767.700	128.000	.000	.000
X1	29.970	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	30.080	4.000	.000	128.000	100.000	120.000	110.000	.000	.000	.000
GR	6771.800	.000	6763.800	24.000	6763.800	104.000	6771.800	128.000	.000	.000
	DROP STRUCTURE									
X1	30.210	4.000	.000	128.000	160.000	100.000	130.000	.000	.000	.000
GR	6773.100	.000	6765.100	24.000	6765.100	104.000	6773.100	128.000	.000	.000

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X1	30.240	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
QT	1.000	3008.000	.000	.000	.000	.000	.000	.000	.000	.000
	DESIGN POINT 11									
X1	30.440	4.000	.000	138.000	160.000	240.000	200.000	.000	.000	.000
GR	6778.200	.000	6770.200	24.000	6770.200	114.000	6778.200	138.000	.000	.000
	DROP STRUCTURE									
X1	30.770	4.000	.000	128.000	280.000	380.000	330.000	.000	.000	.000
GR	6781.500	.000	6773.500	24.000	6773.500	104.000	6781.500	128.000	.000	.000
X1	30.810	.000	.000	.000	40.000	40.000	40.000	.000	4.000	.000

X1	30.950	4.000	.000	148.000	150.000	130.000	140.000	.000	.000	.000
GR	6786.900	.000	6778.900	24.000	6778.900	124.000	6786.900	148.000	.000	.000
DROP STRUCTURE										
X1	31.110	4.000	.000	148.000	160.000	160.000	160.000	.000	.000	.000
GR	6788.500	.000	6780.500	24.000	6780.500	124.000	6788.500	148.000	.000	.000
X1	31.140	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	31.280	4.000	.000	138.000	140.000	140.000	140.000	.000	.000	.000
GR	6792.900	.000	6784.900	24.000	6784.900	114.000	6792.900	138.000	.000	.000

DROP STRUCTURE										
X1	31.420	4.000	.000	138.000	100.000	150.000	140.000	.000	.000	.000
GR	6794.300	.000	6786.300	24.000	6786.300	114.000	6794.300	138.000	.000	.000
X1	31.450	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
QT	1.000	2531.000	.000	.000	.000	.000	.000	.000	.000	.000
DESIGN POINT 10										
X1	31.690	4.000	.000	158.000	180.000	300.000	240.000	.000	.000	.000
GR	6799.700	.000	6791.700	24.000	6791.700	134.000	6799.700	158.000	.000	.000
DROP STRUCTURE										
X1	31.910	4.000	.000	128.000	360.000	80.000	220.000	.000	.000	.000
GR	6801.900	.000	6793.900	24.000	6793.900	104.000	6801.900	128.000	.000	.000
X1	31.940	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	32.110	4.000	.000	148.000	150.000	220.000	170.000	.000	.000	.000
GR	6806.600	.000	6798.600	24.000	6798.600	124.000	6806.600	148.000	.000	.000
DROP STRUCTURE										
X1	32.320	4.000	.000	138.000	160.000	250.000	210.000	.000	.000	.000
GR	6808.700	.000	6800.700	24.000	6800.700	114.000	6808.700	138.000	.000	.000

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X1	32.350	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	32.500	4.000	.000	148.000	230.000	130.000	150.000	.000	.000	.000
GR	6813.200	.000	6805.200	24.000	6805.200	124.000	6813.200	148.000	.000	.000
DROP STRUCTURE										
X1	32.690	4.000	.000	138.000	160.000	220.000	190.000	.000	.000	.000
GR	6815.100	.000	6807.100	24.000	6807.100	114.000	6815.100	138.000	.000	.000
X1	32.720	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
X1	32.880	4.000	.000	118.000	150.000	170.000	160.000	.000	.000	.000
GR	6819.700	.000	6811.700	24.000	6811.700	94.000	6819.700	118.000	.000	.000
DROP STRUCTURE										
X1	32.990	4.000	.000	80.000	120.000	100.000	110.000	.000	.000	.000

GR	6820.800	.000	6812.800	24.000	6812.800	56.000	6820.800	80.000	.000	.000
X1	33.020	.000	.000	.000	30.000	30.000	30.000	.000	3.000	.000
QT	1.000	2332.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.060	.060	.015	.100	.300	.000	.000	.000	.000	.000
BOX CULVERTS AT POWERS BLVD. & DES PT 9										
X1	33.090	14.000	319.900	352.000	70.000	70.000	70.000	.000	.000	.000
BT	14.000	.000	6850.000	6850.000	319.900	6848.000	6827.500	320.000	6848.000	6827.500
BT	329.900	6848.000	6827.500	330.000	6848.000	6827.500	330.900	6848.000	6827.500	331.000
BT	6848.000	6827.500	340.900	6848.000	6827.500	341.000	6848.000	6827.500	341.900	6848.000
BT	6827.500	342.000	6848.000	6827.500	351.900	6848.000	6827.500	352.000	6848.000	6827.500

BT	500.000	6850.000	6850.000	.000	.000	.000	.000	.000	.000	.000
GR	6850.000	.000	6827.500	319.900	6818.500	320.000	6818.500	329.900	6827.500	330.000
GR	6827.500	330.900	6818.500	331.000	6818.500	340.900	6827.500	341.000	6827.500	341.900
GR	6818.500	342.000	6818.500	351.900	6827.900	352.000	6850.000	500.000	.000	.000
X1	33.290	14.000	319.900	352.000	200.000	200.000	200.000	.000	.000	.000
BT	14.000	.000	6850.000	6850.000	319.900	6848.000	6829.500	320.000	6848.000	6829.500
BT	329.900	6848.000	6829.500	330.000	6848.000	6829.500	330.900	6848.000	6829.500	331.000
BT	6848.000	6829.500	340.900	6848.000	6829.500	341.000	6848.000	6829.500	341.900	6848.000
BT	6829.500	342.000	6848.000	6829.500	351.900	6848.000	6829.500	352.000	6848.000	6829.500
BT	500.000	6850.000	6850.000	.000	.000	.000	.000	.000	.000	.000
GR	6850.000	.000	6829.500	319.900	6820.500	320.000	6820.500	329.900	6829.500	330.000
GR	6829.500	330.900	6820.500	331.000	6820.500	340.900	6829.500	341.000	6829.500	341.900
GR	6820.500	342.000	6820.500	351.900	6829.900	352.000	6850.000	500.000	.000	.000
NC	.060	.060	.050	.100	.300	.000	.000	.000	.000	.000
X1	33.400	4.000	.000	138.000	110.000	110.000	110.000	.000	.000	.000
GR	6829.600	.000	6821.600	24.000	6821.600	114.000	6829.600	138.000	.000	.000
EJ	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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THIS RUN EXECUTED 01-30-92

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

FILE HEC2.DAT - URS PRO

SUMMARY PRINTOUT

SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
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*	.170	6248.28	6248.28	6251.51	9.68	14.42	.00	.00	52.75	172.43
*	.280	6250.81	6248.70	6252.87	11.01	11.52	.00	.00	55.23	169.99
*	.330	6250.52	6250.21	6253.90	9.32	14.76	.00	.00	195.53	296.65
*	.380	6252.53	6250.21	6254.59	11.33	11.53	.00	.00	191.34	301.10
*	.450	6253.43	6251.84	6255.27	9.43	10.89	.00	.00	90.95	228.91
*	.590	6255.11	6251.84	6256.33	11.11	8.87	.00	.00	90.94	228.93
*	.750	6256.27	6252.86	6257.14	10.27	7.46	.00	.00	54.31	254.72

*	.790	6256.86	6256.86	6259.45	6.86	12.91	.00	.00	62.85	231.55
*	.930	6259.97	6258.32	6261.63	8.97	10.33	.00	.00	150.16	310.96
*	1.270	6264.84	6264.31	6267.53	10.33	13.18	.00	.00	128.22	256.37
*	1.470	6269.49	6267.78	6271.58	13.49	11.59	.00	.00	231.41	358.79
	1.500	6270.13	6267.79	6271.91	14.13	10.68	.00	.00	229.36	359.68
*	1.720	6275.88	6275.88	6281.61	12.88	19.22	1.35	1.03	260.59	320.72
	1.750	6277.28	6275.86	6281.81	14.28	17.12	1.61	1.23	253.60	321.92
*	1.880	6280.13	6279.16	6283.53	13.13	14.79	.00	.00	118.60	202.84
*	2.020	6284.02	6284.02	6287.77	14.02	15.54	.00	.00	97.94	194.12
*	2.060	6288.00	6288.00	6291.77	14.00	15.58	.00	.00	98.00	194.00

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	SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
*	2.360	6293.03	6288.36	6294.17	16.43	8.56	.00	.00	181.82	319.68
*	2.710	6293.60	6293.60	6296.62	10.10	15.82	.00	10.69	49.77	185.03
*	3.030	6301.09	6298.19	6302.14	12.09	8.26	.00	1.21	60.04	291.63
*	3.420	6303.47	6303.47	6306.57	9.47	14.13	.00	.00	129.47	258.89
*	3.760	6311.96	6311.96	6315.50	10.96	15.12	3.37	.00	158.23	269.91
*	4.270	6318.39	6317.26	6320.20	10.40	11.48	.00	6.85	56.38	241.35
*	4.310	6321.27	6321.27	6323.97	9.27	13.95	.00	8.07	64.31	231.82
*	4.690	6326.59	6325.55	6328.47	10.59	11.81	.00	7.67	77.06	246.30

* 5.060	6331.23	6330.80	6333.71	9.23	13.45	.00	8.85	66.67	215.78
* 5.300	6336.39	6335.19	6338.69	10.39	12.18	.00	.00	110.10	235.83
* 5.340	6339.17	6339.17	6342.46	9.17	14.54	.00	.00	113.52	231.04
* 5.780	6347.08	6345.29	6349.08	12.48	11.34	.00	.00	37.41	165.40
* 5.920	6349.03	6343.34	6349.83	13.33	7.17	.00	.00	82.92	233.06
5.950	6348.50	6346.33	6350.24	9.80	10.58	.00	.00	93.49	226.01
* 6.220	6352.38	6352.35	6355.59	10.38	14.39	.00	.00	79.94	198.15

* 6.460	6356.18	6355.43	6359.09	9.18	13.68	.00	.00	5.63	112.37
* 6.490	6358.43	6358.43	6362.00	8.43	15.16	.00	.00	7.14	110.86
* 6.600	6361.68	6359.83	6363.75	9.68	11.54	.00	.00	4.64	123.36
* 6.780	6363.03	6360.59	6364.82	10.28	10.74	.00	.00	3.45	124.55
* 6.810	6364.59	6364.59	6367.99	7.84	14.80	.00	.00	8.32	119.68
* 7.025	6369.48	6369.48	6372.88	7.84	14.79	.00	.00	8.32	119.68
* 7.225	6373.98	6373.98	6377.37	7.85	14.79	.00	.00	8.31	119.69
* 7.425	6378.47	6378.47	6381.86	7.85	14.79	.00	.00	8.31	119.69
* 7.600	6381.92	6381.92	6385.31	7.85	14.79	.00	.00	8.31	119.69
* 7.675	6383.40	6383.40	6386.79	7.85	14.79	.00	.00	8.31	119.69
* 7.747	6384.27	6384.27	6387.90	7.27	15.29	.00	.00	299.92	403.98

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	SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
* 7.846	6386.65	6386.65	6390.05	6.75	14.81	.00	.00	299.93	403.97	
* 7.971	6389.94	6387.42	6391.19	8.44	8.96	.00	.00	7.11	155.89	
* 7.994	6391.43	6391.43	6394.14	5.95	13.22	.00	.00	12.11	150.89	
* 8.146	6394.41	6392.04	6395.70	8.30	9.14	.00	.00	7.40	155.60	
* 8.175	6396.05	6396.05	6398.77	5.94	13.24	.00	.00	12.12	150.88	
* 8.346	6399.20	6396.79	6400.48	8.35	9.07	.00	.00	7.29	155.71	
* 8.375	6400.80	6400.80	6403.51	5.95	13.22	.00	.00	12.10	150.90	

*	8.498	6403.47	6401.50	6404.92	7.89	9.67	.00	.00	8.22	154.78
*	8.621	6404.59	6401.96	6405.80	8.55	8.83	.00	.00	6.90	156.10
*	8.650	6405.96	6405.96	6408.70	5.92	13.29	.00	.00	12.17	150.83
*	8.777	6408.75	6406.71	6410.17	7.95	9.58	.00	.00	8.09	154.91
*	8.904	6409.85	6407.24	6411.07	8.53	8.86	.00	.00	6.94	156.06
*	8.925	6410.24	6410.24	6412.98	5.92	13.28	.00	.00	12.15	150.85
*	9.048	6412.98	6410.97	6414.42	7.93	9.62	.00	.00	8.15	154.85
*	9.171	6414.08	6411.43	6415.28	8.57	8.81	.00	.00	6.86	156.14

*	9.200	6415.43	6415.43	6418.17	5.92	13.28	.00	.00	12.16	150.84
*	9.323	6418.17	6416.16	6419.61	7.93	9.61	.00	.00	8.13	154.87
*	9.446	6419.27	6416.61	6420.47	8.58	8.80	.00	.00	6.84	156.16
*	9.475	6420.61	6420.61	6423.35	5.92	13.29	.00	.00	12.17	150.83
*	9.598	6423.36	6421.34	6424.79	7.94	9.61	.00	.00	8.13	154.87
*	9.721	6424.45	6421.81	6425.66	8.57	8.81	.00	.00	6.86	156.14
*	9.750	6425.80	6425.80	6428.54	5.92	13.28	.00	.00	12.16	150.84
*	9.873	6428.54	6426.54	6429.98	7.93	9.62	.00	.00	8.14	154.86
*	9.996	6429.64	6426.99	6430.85	8.57	8.81	.00	.00	6.86	156.14
*	10.025	6430.99	6430.99	6433.73	5.92	13.28	.00	.00	12.16	150.84
*	10.152	6433.77	6431.74	6435.20	7.95	9.59	.00	.00	8.10	154.90

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	SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VR08	SSTA	ENDST
*	10.279	6434.88	6432.30	6436.10	8.53	8.86	.00	.00	6.95	156.05
*	10.300	6435.28	6435.28	6438.01	5.92	13.28	.00	.00	12.15	150.85
*	10.427	6438.05	6436.02	6439.48	7.95	9.59	.00	.00	8.10	154.90
*	10.554	6439.19	6436.49	6440.36	8.56	8.68	.00	.00	6.89	156.11
*	10.575	6439.50	6439.50	6442.21	5.86	13.21	.00	.00	12.27	150.73
*	10.698	6442.22	6440.22	6443.64	7.86	9.56	.00	.00	8.28	154.72

*	10.821	6443.32	6440.69	6444.51	8.49	8.76	.00	.00	7.01	155.99
*	10.850	6444.68	6444.68	6447.40	5.86	13.23	.00	.00	12.29	150.71
*	11.009	6447.77	6445.41	6449.05	8.24	9.06	.00	.00	7.52	155.48
*	11.030	6448.41	6448.41	6451.11	5.88	13.17	.00	.00	12.24	150.76
*	11.196	6451.51	6449.12	6452.78	8.27	9.03	.00	.00	7.46	155.54
*	11.225	6453.10	6453.10	6455.82	5.86	13.23	.00	.00	12.28	150.72
*	11.500	6459.58	6459.58	6462.08	5.58	12.69	.00	.00	80.70	237.90
*	11.700	6463.19	6461.74	6464.60	7.19	9.54	.00	.00	112.52	287.21

*	11.890	6465.06	6463.82	6466.65	7.06	10.11	.00	.00	34.69	199.62
*	11.930	6467.81	6467.81	6470.33	5.81	12.73	.00	.00	40.93	196.15
*	12.100	6470.91	6468.81	6472.10	7.91	8.76	.00	.00	24.35	197.65
*	12.330	6472.60	6469.94	6473.55	8.20	7.84	.00	.00	23.21	208.79
*	12.360	6472.93	6472.93	6475.35	5.53	12.49	.00	.00	33.87	198.13
*	12.590	6477.57	6475.04	6478.95	9.57	9.44	.00	.00	13.29	150.71
*	12.630	6479.06	6479.06	6481.99	7.06	13.75	.00	.00	20.83	143.17
*	12.880	6483.09	6480.75	6484.74	9.59	10.33	.00	.00	8.82	127.18
*	13.130	6485.07	6482.26	6486.54	10.07	9.73	.00	.00	7.85	128.15
	13.280	6486.09	6483.18	6487.52	10.19	9.59	.00	.00	7.61	128.39
*	13.330	6487.80	6482.11	6488.51	11.60	6.84	4.34	4.35	131.15	301.05
*	13.550	6493.23	6493.23	6495.59	5.22	12.35	.00	.00	264.33	425.67

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	SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
*	13.640	6495.42	6493.81	6496.71	6.82	9.10	.00	.00	258.73	431.39
*	13.670	6496.81	6496.81	6499.17	5.21	12.34	.00	.00	263.77	426.32
*	13.940	6501.42	6499.78	6502.94	7.62	9.87	.00	.00	116.66	263.34
*	13.970	6502.78	6502.78	6505.43	5.98	13.08	.00	.00	121.35	258.65
*	14.230	6507.13	6505.16	6508.53	8.23	9.51	.00	.00	79.23	233.59

*	14.260	6508.16	6508.16	6510.89	6.26	13.26	.00	.00	85.11	216.41
*	14.530	6512.27	6509.63	6513.29	8.17	8.12	.00	.00	38.66	210.08
*	14.560	6512.63	6512.63	6515.15	5.53	12.74	.00	.00	50.98	199.02
*	14.830	6517.22	6515.39	6518.56	8.02	9.31	3.09	.00	108.52	285.00
*	14.860	6518.40	6518.40	6520.97	6.20	12.89	2.81	.00	120.70	268.96
*	15.130	6522.43	6520.02	6523.44	8.03	8.06	.00	.00	77.82	262.15
*	15.160	6523.02	6523.02	6525.44	5.62	12.49	.00	.00	89.92	247.35
*	15.430	6526.98	6524.95	6528.10	7.48	8.49	.00	.00	126.11	308.43
*	15.460	6527.96	6527.96	6530.33	5.46	12.36	.00	.00	138.25	299.07

*	15.740	6532.00	6529.77	6532.85	7.20	7.38	.00	.00	59.98	290.04
*	15.770	6532.77	6532.77	6534.90	4.97	11.69	.00	.00	76.70	267.74
*	16.040	6536.69	6535.00	6537.80	6.79	8.46	.00	.00	109.67	295.14
*	16.070	6538.00	6538.00	6540.20	5.10	11.91	.00	.00	119.72	288.88
*	16.350	6541.48	6538.63	6541.93	6.28	5.38	.00	.00	158.03	442.31
*	16.380	6541.64	6541.64	6543.28	3.44	10.27	.00	.00	165.71	427.70
*	16.660	6545.68	6544.32	6546.65	5.28	7.89	.00	.00	32.69	263.89
*	16.690	6547.33	6547.33	6549.17	3.93	10.89	.00	.00	39.69	260.33
*	16.930	6552.75	6551.13	6553.95	7.45	8.80	.00	.00	24.32	201.65
*	16.960	6554.13	6554.13	6556.42	5.83	12.12	.00	.00	29.88	190.89
*	17.170	6557.31	6554.45	6557.98	7.31	6.60	.00	1.19	16.62	262.47
*	17.200	6557.45	6557.45	6559.50	4.45	11.51	.00	.00	25.76	213.54

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	SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
*	17.430	6560.92	6559.49	6561.72	4.92	7.19	.00	.00	15.86	281.42
*	17.700	6563.80	6563.02	6564.99	5.60	8.75	.00	.00	30.99	266.93
*	18.000	6567.51	6566.78	6568.41	4.51	7.61	.00	.00	41.20	365.04
	18.300	6570.98	6570.03	6571.83	4.78	7.40	.00	.00	39.35	343.27

	18.600	6574.49	6573.89	6575.40	5.49	7.66	.00	.00	57.00	397.50
*	18.900	6579.11	6579.06	6580.72	5.41	10.26	.00	2.33	24.43	335.33
*	19.150	6583.31	6583.17	6584.56	5.31	9.16	.00	2.67	26.77	423.07
*	19.450	6587.18	6586.30	6588.26	5.18	8.35	.00	1.88	37.91	324.27
*	19.780	6594.24	6594.24	6596.31	4.24	11.54	.00	.00	285.27	414.93
*	19.950	6596.53	6594.24	6597.32	6.53	7.12	.74	.73	276.19	418.58
*	20.160	6598.34	6598.34	6599.73	3.94	9.47	.00	.00	90.79	271.26
*	20.400	6602.00	6601.30	6602.69	3.60	6.65	.00	.00	99.97	350.60
	20.480	6603.00	6602.12	6603.61	3.79	6.24	.00	.00	98.13	351.14

*	20.510	6605.12	6605.12	6606.31	2.90	8.73	.00	.00	119.31	348.54
*	20.700	6607.77	6606.82	6608.26	3.27	5.61	.00	.00	63.13	346.63
*	20.980	6611.08	6610.48	6611.83	3.69	6.93	.00	.00	130.99	369.07
*	21.010	6613.47	6613.47	6614.67	3.07	8.79	.00	.00	141.76	366.77
*	21.300	6617.28	6616.31	6617.87	3.88	6.18	.00	.00	141.14	389.70
	21.500	6619.27	6618.35	6619.88	3.83	6.28	.00	.00	142.26	389.40
*	21.530	6621.35	6621.35	6622.56	2.91	8.85	.00	.00	163.10	383.84
*	21.600	6622.89	6621.90	6623.42	3.49	5.85	.00	.00	121.92	379.64
*	21.900	6626.87	6626.38	6628.02	4.37	8.60	.00	.00	219.04	377.98
*	22.080	6629.28	6628.21	6630.13	4.94	7.36	.00	.00	212.07	379.87
*	22.110	6631.21	6631.21	6632.78	3.87	10.04	.00	.00	225.36	376.26
*	22.200	6633.15	6632.18	6633.98	4.55	7.31	.00	.00	164.26	334.97
	22.390	6635.12	6634.12	6635.94	4.58	7.25	.00	.00	164.09	335.07

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	SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
*	22.420	6637.12	6637.12	6638.60	3.58	9.78	.00	.00	169.12	331.89
*	22.500	6639.37	6638.95	6640.86	4.77	9.80	.00	.00	127.44	247.66
*	22.840	6643.27	6642.49	6644.36	4.87	8.36	.00	.00	190.44	351.96

*	22.870	6645.50	6645.50	6647.19	4.10	10.41	.00	.00	196.24	350.31
*	23.100	6648.80	6647.45	6649.62	5.10	7.27	.00	.00	54.66	202.39
	23.180	6649.47	6648.26	6650.35	4.95	7.52	.00	.00	55.33	201.84
*	23.210	6651.26	6651.26	6652.93	3.74	10.38	.00	.00	60.88	197.22
*	23.400	6654.42	6653.52	6655.42	4.62	8.01	.00	.00	131.82	279.65
	23.550	6656.16	6655.05	6657.06	4.83	7.61	.00	.00	130.92	280.67
*	23.580	6658.04	6658.04	6659.70	3.71	10.32	.00	.00	135.79	275.20
*	23.700	6660.41	6659.62	6661.49	4.51	8.32	.00	.00	65.17	210.09
*	23.890	6662.65	6661.57	6663.58	4.81	7.71	.00	.00	63.91	211.51
*	23.920	6664.56	6664.56	6666.23	3.72	10.35	.00	.00	68.45	206.42

	23.950	6665.75	6664.99	6666.81	4.25	8.29	.00	.00	88.54	234.96
*	24.250	6669.15	6668.10	6669.91	4.25	6.97	.00	.00	47.41	229.19
*	24.280	6671.10	6671.10	6672.54	3.20	9.63	.00	.00	52.03	221.94
*	24.500	6674.82	6673.83	6675.68	4.62	7.46	.00	.00	124.20	291.37
*	24.530	6676.83	6676.83	6678.37	3.63	9.98	.00	.00	130.15	284.01
*	24.850	6680.26	6678.15	6680.91	5.76	6.49	.00	.00	103.50	241.25
	25.070	6681.41	6679.25	6682.11	6.01	6.69	.00	.00	66.09	193.69
*	25.230	6682.05	6681.94	6684.30	6.05	12.03	.00	.00	199.91	270.14
*	25.360	6684.69	6681.93	6685.56	8.69	7.48	.00	.00	193.33	276.73
*	25.470	6685.53	6681.61	6686.02	8.73	5.62	.00	.00	13.19	116.81
*	25.495	6686.82	6686.82	6688.90	4.82	11.57	.00	.00	22.96	107.04
*	25.630	6690.40	6688.94	6691.74	7.40	9.30	.00	.00	196.58	273.47
*	25.760	6691.87	6688.93	6692.69	8.87	7.28	.00	.00	192.88	277.18

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	SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
*	25.790	6691.94	6691.94	6694.30	5.94	12.33	.00	.00	200.20	269.84
*	26.010	6695.27	6692.54	6695.72	6.27	5.38	.00	.00	5.17	142.83

*	26.040	6695.54	6695.54	6697.17	3.54	10.24	.00	.00	13.37	134.63
*	26.160	6698.05	6696.90	6699.03	5.05	7.95	.00	.00	8.87	124.13
	26.320	6699.64	6698.34	6700.59	5.34	7.83	.00	.00	7.98	120.02
*	26.350	6701.34	6701.34	6703.15	4.04	10.79	.00	.00	11.88	116.12
*	26.500	6703.98	6702.54	6704.87	5.48	7.60	.00	.00	7.57	120.43
	26.640	6705.17	6703.74	6706.07	5.47	7.60	.00	.00	7.57	120.43
*	26.670	6706.74	6706.74	6708.55	4.04	10.79	.00	.00	11.88	116.12
*	26.800	6709.19	6707.84	6710.12	5.39	7.75	.00	.00	7.84	120.16
*	26.940	6710.46	6708.80	6711.24	5.56	7.10	.00	.00	7.31	125.69
*	26.970	6711.80	6711.80	6713.56	3.90	10.64	.00	.00	12.30	120.70

*	27.120	6714.41	6713.00	6715.28	5.31	7.49	.00	.00	8.07	124.93
	27.200	6715.15	6713.58	6715.93	5.35	7.08	.00	.00	7.96	130.04
*	27.230	6716.57	6716.57	6718.28	3.77	10.51	.00	.00	12.69	125.31
*	27.350	6718.86	6717.34	6719.60	5.06	6.89	.00	.00	8.82	139.18
	27.540	6720.29	6718.84	6721.05	4.99	7.00	.00	.00	9.04	138.96
*	27.570	6721.84	6721.84	6723.47	3.54	10.25	.00	.00	13.38	134.62
*	27.700	6724.17	6722.74	6724.88	4.77	6.79	.00	.00	9.73	148.27
	27.860	6725.40	6724.05	6726.14	4.70	6.88	.00	.00	9.90	148.10
*	27.890	6727.04	6727.04	6728.60	3.34	10.03	.00	.00	13.99	144.01
*	28.020	6729.35	6728.15	6730.14	4.55	7.13	.00	.00	10.34	147.66
	28.170	6730.68	6729.54	6731.56	4.68	7.52	.00	.00	9.95	138.05
*	28.200	6732.54	6732.54	6734.17	3.54	10.25	.00	.00	13.38	134.62
*	28.330	6735.04	6733.87	6735.97	4.94	7.76	.00	.00	9.19	128.81
*	28.470	6736.39	6734.98	6737.22	5.19	7.32	.00	.00	8.42	129.58

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	SECNO	CWSEL	CRWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
*	28.500	6737.98	6737.98	6739.69	3.78	10.48	.00	.00	12.66	125.34

*	28.640	6740.43	6739.07	6741.29	5.13	7.42	.00	.00	8.60	129.40
	28.780	6741.64	6740.28	6742.49	5.14	7.42	.00	.00	8.60	129.40
*	28.810	6743.27	6743.27	6744.98	3.77	10.50	.00	.00	12.68	125.32
*	28.930	6745.56	6744.04	6746.29	5.06	6.89	.00	.00	8.83	139.17
	29.050	6746.49	6744.84	6747.14	4.99	6.43	.00	.00	9.02	148.98
*	29.090	6748.84	6748.84	6750.40	3.34	10.01	.00	.00	13.98	144.02
*	29.200	6750.93	6749.74	6751.73	4.53	7.18	.00	.00	10.42	147.58
	29.360	6752.36	6751.05	6753.11	4.66	6.94	.00	.00	10.01	147.99
*	29.400	6755.04	6755.04	6756.60	3.34	10.01	.00	.00	13.98	144.02
*	29.530	6757.66	6756.47	6758.59	4.96	7.72	.00	.00	9.13	128.87
*	29.640	6758.78	6757.14	6759.48	5.18	6.72	.00	.00	8.49	139.51

*	29.680	6761.14	6761.14	6762.77	3.54	10.24	.00	.00	13.37	134.63
*	29.800	6763.37	6762.14	6764.21	4.77	7.36	.00	.00	9.69	138.31
*	29.940	6764.68	6763.74	6765.80	4.97	8.50	.00	.00	9.08	118.92
*	29.970	6766.74	6766.74	6768.55	4.04	10.80	.00	.00	11.89	116.11
*	30.080	6768.99	6767.83	6770.01	5.19	8.08	.00	.00	8.42	119.58
	30.210	6770.33	6769.14	6771.33	5.23	8.02	.00	.00	8.32	119.68
*	30.240	6772.14	6772.14	6773.95	4.04	10.79	.00	.00	11.88	116.12
*	30.440	6775.19	6773.33	6775.70	4.99	5.74	.00	.00	9.02	128.98
*	30.770	6777.84	6776.86	6778.70	4.34	7.45	.00	.00	10.97	117.03
*	30.810	6780.86	6780.86	6782.39	3.36	9.93	.00	.00	13.91	114.09
*	30.950	6783.24	6781.84	6783.83	4.34	6.12	.00	.00	10.96	137.04
*	31.110	6784.49	6783.43	6785.19	3.99	6.73	.00	.00	12.02	135.98
*	31.140	6786.45	6786.45	6787.81	2.95	9.38	.00	.00	15.16	132.84
*	31.280	6788.97	6788.04	6789.78	4.07	7.24	.00	.00	11.80	126.20

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SECNO	CWSEL	CRIWS	EG	DEPTH	VCH	VLOB	VROB	SSTA	ENDST
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	31.420	6790.46	6789.43	6791.24	4.16	7.05	.00	.00	11.51	126.49
*	31.450	6792.43	6792.43	6793.88	3.13	9.66	.00	.00	14.60	123.40
*	31.690	6795.54	6794.18	6796.00	3.84	5.42	.00	.00	12.47	145.53
*	31.910	6797.59	6796.91	6798.47	3.69	7.53	.00	.00	12.93	115.07
*	31.940	6799.91	6799.91	6801.29	3.01	9.44	.00	.00	14.96	113.04
*	32.110	6802.48	6801.23	6803.01	3.88	5.84	.00	.00	12.36	135.64
*	32.320	6804.36	6803.51	6805.09	3.66	6.85	.00	.00	13.02	124.98
*	32.350	6806.51	6806.51	6807.81	2.81	9.16	.00	.00	15.58	122.42
*	32.500	6808.90	6807.83	6809.49	3.70	6.16	.00	.00	12.91	135.09
*	32.690	6810.74	6809.91	6811.48	3.64	6.89	.00	.00	13.08	124.92
*	32.720	6812.91	6812.91	6814.21	2.81	9.17	.00	.00	15.58	122.42

*	32.880	6815.90	6814.96	6816.73	4.20	7.31	.00	.00	11.42	106.58
*	32.990	6817.75	6817.70	6819.59	4.95	10.90	.00	.00	9.14	70.86
*	33.020	6820.70	6820.70	6822.60	4.91	11.04	.00	.00	9.28	70.72
*	33.090	6824.24	6824.24	6827.11	5.74	13.60	.00	.00	319.94	351.96
*	33.290	6826.24	6826.24	6829.11	5.74	13.60	.00	.00	319.94	351.96
*	33.400	6829.49	6824.26	6829.59	7.89	2.60	.00	.00	.34	137.66

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION	SECNO=	.170	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	.280	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	.330	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	.380	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	.450	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	.590	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	.750	PROFILE= 1	INTERPOLATED XSECTIONS USED

CAUTION	SECNO=	.790	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	.790	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	.930	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	1.270	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	1.470	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	1.720	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	1.880	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	2.020	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	2.060	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	2.060	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	2.360	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	2.710	PROFILE= 1	INTERPOLATED XSECTIONS USED

CAUTION	SECNO=	3.030	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	3.420	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	3.760	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	4.270	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	4.310	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	4.310	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	4.690	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	5.060	PROFILE= 1	INTERPOLATED XSECTIONS USED

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CAUTION	SECNO=	5.300	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	5.340	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	5.340	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	5.780	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	5.920	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	6.220	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	6.460	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	6.490	PROFILE= 1	CRITICAL DEPTH ASSUMED

CAUTION	SECNO=	6.490	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	6.600	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	6.780	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	6.810	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	6.810	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	7.025	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	7.025	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	7.225	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	7.225	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	7.425	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	7.425	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	7.600	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	7.600	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	7.675	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	7.675	PROFILE= 1	MINIMUM SPECIFIC ENERGY

CAUTION	SECNO=	7.747	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	7.846	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	7.971	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	7.994	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	7.994	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	8.146	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	8.175	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	8.175	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	8.346	PROFILE= 1	INTERPOLATED XSECTIONS USED

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CAUTION	SECNO=	8.375	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	8.375	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	8.498	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	8.621	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	8.650	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	8.650	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	8.777	PROFILE= 1	INTERPOLATED XSECTIONS USED

CAUTION	SECNO=	8.904	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	8.925	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	8.925	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	9.048	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	9.171	PROFILE= 1	INTERPOLATED XSECTIONS USED
CAUTION	SECNO=	9.200	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	9.200	PROFILE= 1	MINIMUM SPECIFIC ENERGY
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CAUTION SECNO= 12.360 PROFILE= 1 MINIMUM SPECIFIC ENERGY
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 CAUTION SECNO= 13.640 PROFILE= 1 INTERPOLATED XSECTIONS USED
 CAUTION SECNO= 13.670 PROFILE= 1 CRITICAL DEPTH ASSUMED

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CAUTION SECNO= 13.670 PROFILE= 1 MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 13.940 PROFILE= 1 INTERPOLATED XSECTIONS USED
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CAUTION	SECNO=	16.690	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	16.690	PROFILE= 1	MINIMUM SPECIFIC ENERGY
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CAUTION	SECNO=	17.200	PROFILE= 1	MINIMUM SPECIFIC ENERGY
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CAUTION	SECNO=	18.000	PROFILE= 1	INTERPOLATED XSECTIONS USED
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