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#1016.33

Rosewood Wash Drainage Basin

Hydrology Report

for

Rosewood Wash Detention Basin Down-Drains

Prepared by:

Codega & Fricke, inc.
engineers + planners + landscape architects
3690 Grant Drive, Suite J
Reno, Nevada 89509



August 1990

looks ok to
PMG
8/2/90

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Rosewood Wash Drainage Basin

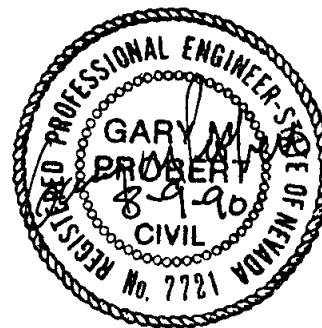
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Location

The Rosewood Wash Detention Basin at McCarran Boulevard is located in the south east portion of Section 28, T. 19 N., R. 19 E., within the Caughlin Ranch in Reno, Nevada. The detention basin is located on the south side of McCarran where the Rosewood Wash channel crosses McCarran Boulevard. Adjacent developments include the proposed Eastgate and Southpoint subdivisions to the west and the Eastridge Subdivisions to the east. The down-drains extend from the top of the slope on the west side of the basin to the bottom of the basin.

Background

The Rosewood Wash Detention Basin was built with the construction of McCarran Boulevard for the phase between Skyline View and Cashill Boulevard. The basin consists of approximately one half acre of land adjacent to McCarran Boulevard. A hydrology report: "Rosewood Wash Detention Basin - McCarran Boulevard" describes the basin and its benefits.

This report and its associated plans have been designed in conjunction with the above mentioned report. The plans consist of a series of ponds, trash racks, manholes, piping and energy dissipators to get the storm runoff from the top of the slope to the bottom of the slope and into the detention basin. The hydrology report considers the runoff in its present state (existing) and its proposed state.

Existing Conditions

With the grading of McCarran Boulevard and Caughlin Village, the drainage basin for the Rosewood Wash has changed drastically over the past year. The area from Sierra Pacific Power Company's Mt. Rose substation to McCarran Boulevard, have had the steep and deep canyon filled in to form a mild (8% grade) sloping surface. The disturbed land is void of all vegetation. The upper end of the drainage basin is still in its "natural" state and consists of mild to moderate sloping land with native grasses and sage brush.

Flows for the 5-year and 100-year storms using the rational method are as follows:

$$\begin{aligned} Q &= CIA \\ &= (.55)(.75)(134) = 55.3 \text{ cfs (5-year)} \\ &= (.55)(200)(134) = 147.4 \text{ cfs (100-year)} \end{aligned}$$

(These were described in greater detail in the hydrology report for the Rosewood Wash Detention Basin.)

7
2.0
1

Proposed Conditions

The proposed conditions are based on the Caughlin Village - Master Grading Plan II submitted to the City of Reno as a Special Use Permit. The above grading plan illustrates the layout for streets, lots and common areas. The Master Grading Plan II sheet used as a base sheet for this hydrology and is labeled as Master Hydrology Map (enclosed).

The Master Hydrology Map shows the proposed layout along with a proposed storm drain system including catch basins, yard drains, swales, manholes, pipes, ponds and ditches.

Existing Conditions

Several existing ponds are located along the flow line of the existing Rosewood Drainage Basin. Pond #1 is built and will not change with construction. A second existing pond is located halfway between Pond #1 and the top of the slope. This is a relatively small pond and will be enlarged at later date for future development. The third pond will be constructed at the inlet to down-drain #1. This pond is designed not for detention but as a stilling basin for the inlet to the down-drain. The water will have time to decrease its velocity prior to entering the down-drain.

The flows through this series of ponds are as follows:

5-Year Storm

Inflow (cfs)	Pond #	Outflow (cfs)	Contributing Flow (cfs)
35.0	#1	7.7	15
21.7	#2	22.0	16
38.0	#3	37.9	

100-Year Storm

Inflow (cfs)	Pond #	Outflow (cfs)	Contributing Flow (cfs)
90.0	#1	16.7	36.0
45.5	#2	46.3	44.0
90.3	#3	91.6	

Thus the existing flows are 37.9 cfs and 91.6 cfs for the 5-year and 100-year storms, respectively

Methodology

The following is a summary of the method used to compute flows. The software package used for routing storms through ponds is Haestad Methods' - Pond 2 and TR55 programs. Basically the size of the pond is inputted into the computer and it determines the volume. The outlet structures for each pond are these inputted into the computer. A hydrograph is generated using the TR55 method and the peak flow is checked against the Rational Method. The hydrograph (inflow) is routed through the pond and an outflow hydrograph is created.

A separate hydrograph is then created for the area contributing to the next pond. The rational method is used to determine the flows at each catch basin and yard drain as shown on the Master Hydrology Map. Refer to the Runoff Flows Calculations at the end of this section. Runoff Flows calculates the 5-year and 100-year flows at each catch basin. Contributing areas of the street, lots and common area are used to determine the flows. For simplicity as well as being conservative, a time of concentration of 10 minutes was used.

After the new hydrograph is created for just the area contributing to the next pond in the system, it is combined with the outflow hydrograph from the previous pond in the system. The new combined hydrograph then becomes the inflow hydrograph for the next pond. This procedure is repeated for each pond. The flow chart for hydrology appears at the end of this section.

Proposed Runoff for Down-drain #1 (South pipe)

The runoff which ultimately ends up at the southern most down-drain (#1) consists of flows from Pond #1, Pond #2, Pond #3, Pond #4 and the contributing areas to each ponds. A summary of the flows are as follows:

5-Year Storm

Inflow (cfs)	Pond #	Outflow (cfs)	Contributing Flow (cfs)
45	#1	7.4	28.9
35.3	#2	7.7	7.9
13.5	#3	8.6	6.2
11.9	#4	11.7	

100-Year Storm

Inflow (cfs)	Pond #	Outflow (cfs)	Contributing Flow (cfs)
91	#1	16	78.3
88	#2	23.8	21.6
31.0	#3	25.3	13.6
26.8	#4	26.8	

The 5-year and 100-year flows exiting Pond #4 are 11.7 cfs and 26.8 cfs. This is the flow that will go down the down-drains.

As can be seen from above, the contributing flow cannot be directly added to the outflow to obtain the new inflow. This is because the peaks do not occur at the same time as the pond delays the peak. In most cases, the inflow is "close" if one adds the outflow and the contributing area flow.

Proposed Runoff for Down-drain #2

The second down-drain (#2), the northern most pipe, receives flow from pond #5. Pond #5 receives off-site flows from Village Green Unit Two and Caughlin Village Park. Off-site flows consist of 17 cfs and 46 cfs for the 5-year and 100-year storms, respectively. Thus total inflows to pond #5 are 26 cfs and 69 cfs for the 5-year storm and 100-year storms respectively. The 100-year storm outflow for the 5-year storm is 18.4 cfs and 52.3 cfs for the 100-year storm.

Pond #6 does not effect the down-drain plans. The outflow from the pond will go through the storm drain system located in the proposed Caughlin Ranch Shopping Center. Total runoff for the area contributing to Pond #6 is 2.4 cfs and 6.6 cfs for the 5-year and 100-year storms respectively. From the Caughlin Village/Caughlin Ranch Shopping Center Hydrology Reports, outflow from pond #6 shall be 2.0 and 5.3 cfs for the 5 and 100 year storms respectively. The inflows as shown above are very close without the use of a pond and for this reason a pond may or may not be constructed. At the time planning for this area, an in depth study will determine if a pond is necessary or not.

As can be seen from the above, the proposed conditions with the series of ponds works well. Both the 5-year and 100-year storms have decreased peak flows. The interesting thing about the contributing flows to down-drain #1 is that the existing conditions are greater than the proposed conditions. Thus the pipe shall be designed using 91.6 cfs.

Design

The down-drains consist of a trash rack, a short section of CMP, a manhole/overflow structure, a long length of CMP, a manhole, a section of RCP, and then an energy dissipator (in that order from top to bottom). The pipe to be used is corrugated metal pipe with a paved invert. A helical corrugation pattern will be used as this decreases Mannings "N" value. Armco's catalog provides an "N" value for 24" paved invert and 2 2/3" x 1/2" helical pattern as .014.

Design Manual states " n " = 0.019

pg 21 #1

Down-drain Inlets

The inlets to the down-drains consist of a trash rack/headwall, a short section of pipe and then an emergency overflow manhole. The overflow manhole helps during the 100-year storm to get the water into the down-drain pipes. It consists of a 60" diameter manhole barrel with 1" rebar on 8" centers across the top. The rebar will help keep debris and kids out of the pipe.

As can be seen by the computer printout under the Structures section, the capacity for Inlet #1 (South inlet) is 147 cfs and capacity for Inlet #2 (North inlet) is 133 cfs. The manholes were calculated as 4' diameter even though 5' diameter barrels will be used. This was done to account for losses due to the 1" rebar.

Down-drain Pipes

Using manning's equation to find full flow capacity for the two pipes are as follows:

$$18" \text{ CMP}, S = 0.322, n = 0.014 = Q(\text{full}) = 60 \text{ cfs} - Q_{\max} @ 0.94 D$$
$$24" \text{ CMP}, S = 0.31, n = 0.014 = Q(\text{full}) = 125 \text{ cfs} - Q_{\max} @ 0.94 D$$

with 0.019 18" \rightarrow 44 cfs 24" \rightarrow 86 cfs

Using the worst case flows for checking capacity of the pipes are as follows:

The 100-year flow at down-drain #1 (Southern pipe) for existing conditions is 92 cfs. This is less than the full flow capacity of the pipe at 125 cfs.

The 100-year flow at down-drain #2 (Northern pipe) for the proposed conditions is 52 cfs. This is less than the full flow capacity of the pipe at 60 cfs.

As a note, both the down-drains may operate under pressure flow conditions due to the use of "O-rings" at each pipe connection.

Conclusion

In conclusion, the proposed subdivision and proposed pond/storm drain layout has a great effect on the hydrology of the area. The flows are being reduced from 55.3 cfs and 147.4 cfs to 30 cfs and 79 cfs for the 5-year and 100-year storms. If you route the above proposed flows through the existing detention basin at McCarran Boulevard, even more benefits occur as the 100-year storm decreases to almost a third of the original flow to 47 cfs.

Even the intermediate or existing condition, flows have remained about the same as the original conditions, 55 cfs and 148 cfs. The reason why this number has not decreased is because the contributing area has increased due to the site grading. The Park and Village Green Unit Two have been added to the total area. Plus the "C" value has increased some due to the removal of all the vegetation. The encouraging factor is that the 100-year storm decreases after routing through the existing Rosewood Wash Detention Basin at McCarran Boulevard from 147 cfs to 93 cfs.

As a final note, the ponds shown are schematic at this time and were designed in conjunction with the layout shown. The ponds may change in size, shape or location but the basic concept shall remain. The main concept is to decrease flows to the point that the 100-year flows shall fit in the designed 24" and 18" CMP down-drain pipes. The 5-year flow must not be increased beyond the point of existing conditions.

RUNOFF FLOWS

RUNOFF FLOWS

EXISTING - CONDITIONS

AREA ID	C	TC (MIN)	I5 (IN/HR)	I100 (IN/HR)	AREA (SF)	AREA (ACRES)	Q5 (CFS)	Q100 (CFS)
OVERALL	0.55	26.30	0.75	2.00		134.00	55.28	147.40

PROPOSED - EASTGATE AND SOUTH POINT DEVELOPMENTS

AREA (ID)	C	TC (MIN)	I5 (IN/HR)	I100 (IN/HR)	AREA (SF)	AREA (ACRES)	Q5 (CFS)	Q100 (CFS)
STREET	0.90				14365	0.33		
LOT AREA	0.50				71535	1.64		
COMMON AREA	0.25				0	0.00		
CB #1	0.57	10.00	1.40	3.80	85900	1.97	1.57	4.25
STREET	0.90				11560	0.27		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #2	0.90	10.00	1.40	3.80	11560	0.27	0.33	0.91
STREET	0.90				24780	0.57		
LOT AREA	0.50				35370	0.81		
COMMON AREA	0.25				0	0.00		
CB #3	0.66	10.00	1.40	3.80	60150	1.38	1.29	3.49
STREET	0.90				11070	0.25		
LOT AREA	0.50				36405	0.84		
COMMON AREA	0.25				0	0.00		
CB #4	0.59	10.00	1.40	3.80	47475	1.09	0.91	2.46
STREET	0.90				11070	0.25		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #5	0.90	10.00	1.40	3.80	11070	0.25	0.32	0.87
STREET	0.90				22060	0.51		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #6	0.90	10.00	1.40	3.80	22060	0.51	0.64	1.73
STREET	0.90				21505	0.49		
LOT AREA	0.50				139390	3.20		
COMMON AREA	0.25				0	0.00		
CB #7	0.55	10.00	1.40	3.80	160895	3.69	2.86	7.77
STREET	0.90				23880	0.55		
LOT AREA	0.50				85410	1.96		
COMMON AREA	0.25				0	0.00		
CB #8	0.59	10.00	1.40	3.80	109290	2.51	2.06	5.60
STREET	0.90				22480	0.52		
LOT AREA	0.50				122360	2.81		
COMMON AREA	0.25				0	0.00		
CB #9	0.56	10.00	1.40	3.80	144840	3.33	2.62	7.10

STREET	0.90				19150	0.44		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #10	0.90	10.00	1.40	<u>3.80</u>	19150	0.44	0.55	1.50
STREET	0.90				25005	0.57		
LOT AREA	0.50				95540	2.19		
COMMON AREA	0.25				0	0.00		
CB #11	0.58	10.00	1.40	3.80	120545	2.77	2.26	6.13
STREET	0.90				9800	0.22		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #12	0.90	10.00	1.40	3.80	9800	0.22	0.28	0.77
STREET	0.90				12065	0.28		
LOT AREA	0.50				93980	2.16		
COMMON AREA	0.25				0	0.00		
CB #13	0.55	10.00	1.40	3.80	106045	2.43	1.86	5.05
STREET	0.90				11590	0.27		
LOT AREA	0.50				84680	1.94		
COMMON AREA	0.25				0	0.00		
CB #14	0.55	10.00	1.40	3.80	96270	2.21	1.70	4.60
STREET	0.90				25910	0.59		
LOT AREA	0.50				65830	1.51		
COMMON AREA	0.25				0	0.00		
CB #15	0.61	10.00	1.40	3.80	91740	2.11	1.81	4.91
STREET	0.90				19600	0.45		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #16	0.90	10.00	1.40	3.80	19600	0.45	0.57	1.54
STREET	0.90				4190	0.10		
LOT AREA	0.50				27020	0.62		
COMMON AREA	0.25				0	0.00		
CB #17	0.55	10.00	1.40	3.80	31210	0.72	0.56	1.51
STREET	0.90				4553	0.10		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #18	0.90	10.00	1.40	3.80	4553	0.10	0.13	0.36
STREET	0.90				13300	0.31		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #19	0.90	10.00	1.40	3.80	13300	0.31	0.38	1.04
STREET	0.90				7140	0.16		
LOT AREA	0.50				21160	0.49		
COMMON AREA	0.25				0	0.00		
CB #20	0.60	10.00	1.40	3.80	28300	0.65	0.55	1.48

STREET	0.90				13800	0.32		
LOT AREA	0.50				54300	1.25		
COMMON AREA	0.25				0	0.00		
CB #21	0.58	10.00	1.40	3.80	68100	1.56	1.27	3.45
STREET	0.90				17100	0.39		
LOT AREA	0.50				58300	1.34		
COMMON AREA	0.25				0	0.00		
CB #22	0.59	10.00	1.40	3.80	75400	1.73	1.43	3.89
STREET	0.90				16500	0.38		
LOT AREA	0.50				80640	1.85		
COMMON AREA	0.25				0	0.00		
CB #23	0.57	10.00	1.40	3.80	97140	2.23	1.77	4.81
STREET	0.90				15725	0.36		
LOT AREA	0.50				83575	1.92		
COMMON AREA	0.25				0	0.00		
CB #24	0.56	10.00	1.40	3.80	99300	2.28	1.80	4.88
STREET	0.90				14600	0.34		
LOT AREA	0.50				74100	1.70		
COMMON AREA	0.25				0	0.00		
CB #25	0.57	10.00	1.40	3.80	88700	2.04	1.61	4.38
STREET	0.90				21900	0.50		
LOT AREA	0.50				84300	1.94		
COMMON AREA	0.25				0	0.00		
CB #26	0.58	10.00	1.40	3.80	106200	2.44	1.99	5.40
STREET	0.90				7480	0.17		
LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				0	0.00		
CB #27	0.90	10.00	1.40	3.80	7480	0.17	0.22	0.59
STREET	0.90				16400	0.38		
LOT AREA	0.50				54400	1.25		
COMMON AREA	0.25				0	0.00		
CB #28	0.59	10.00	1.40	3.80	70800	1.63	1.35	3.66
STREET	0.90				0	0.00		
LOT AREA	0.50				64610	1.48		
COMMON AREA	0.25				0	0.00		
YD #1	0.50	10.00	1.40	3.80	64610	1.48	1.04	2.82
STREET	0.90				0	0.00		
LOT AREA	0.50				34120	0.78		
COMMON AREA	0.25				0	0.00		
YD #2	0.50	10.00	1.40	3.80	34120	0.78	0.55	1.49
STREET	0.90				0	0.00		
LOT AREA	0.50				40230	0.92		
COMMON AREA	0.25				0	0.00		
YD #3	0.50	10.00	1.40	3.80	40230	0.92	0.65	1.75
STREET	0.90				0	0.00		

LOT AREA	0.50				0	0.00		
COMMON AREA	0.25				150000	3.44		
COMMON #1	0.25	10.00	1.40	3.80	150000	3.44	1.21	3.27
STREET	0.90				0	0.00		
LOT AREA	0.50				355300	8.16		
COMMON AREA	0.25				330620	7.59		
COMMON #2	0.38	10.00	1.40	3.80	685920	15.75	8.37	22.71
STREET	0.90				0	0.00		
LOT AREA	0.50				75000	1.72		
COMMON AREA	0.25				46400	1.07		
COMMON #3	0.40	10.00	1.40	3.80	121400	2.79	1.58	4.28
STREET	0.90				0	0.00		
LOT AREA	0.50				60000	1.38		
COMMON AREA	0.25				14400	0.33		
COMMON #4	0.45	10.00	1.40	3.80	74400	1.71	1.08	2.93
STREET	0.90				0	0.00		
LOT AREA	0.50				125000	2.87		
COMMON AREA	0.25				12500	0.29		
COMMON #5	0.48	10.00	1.40	3.80	137500	3.16	2.11	5.72
STREET	0.90				0	0.00		
LOT AREA	0.50				35000	0.80		
COMMON AREA	0.25				33500	0.77		
COMMON #6	0.38	10.00	1.40	3.80	68500	1.57	0.83	2.26

POND	Q5	Q100		
CB #4	0.91	2.46		
CB #5	0.32	0.87		
COMMON #1	1.21	3.27		
POND #1-TOTAL	2.43	6.60		

CB #1	1.57	4.25		
CB #2	0.33	0.91		
CB #3	1.29	3.49		
CB #6	0.64	1.73		
CB #7	2.86	7.77		
CB #8	2.06	5.60		
CB #9	2.62	7.10		
CB #12	0.28	0.77		
CB #13	1.86	5.05		
CB #14	1.70	4.60		
CB #15	1.81	4.91		
CB #16	0.57	1.54		
CB #17	0.56	1.51		
CB #18	0.13	0.36		
YD #1	1.04	2.82		
YD #2	0.55	1.49		

YD #3	0.65	1.75
COMMON #2	8.37	22.71

POND #2-TOTAL	28.86	78.34
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CB #10	0.55	1.50
CB #11	2.26	6.13
CB #26	1.99	5.40
CB #27	0.22	0.59
CB #28	1.35	3.66
COMMON #3	1.58	4.28

POND #3-TOTAL	7.94	21.56
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CB #19	0.38	1.04
CB #20	0.55	1.48
COMMON #4	1.08	2.93
OFFSITE	4.20	8.10

POND #4-TOTAL	6.21	13.56
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CB #21	1.27	3.45
CB #22	1.43	3.89
CB #23	1.77	4.81
CB #24	1.80	4.88
COMMON #5	2.11	5.72
OFFSITE	17.00	46.00

POND #5-TOTAL	25.38	68.76
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CB #25	1.61	4.38
COMMON #6	0.83	2.26

OFFSITE-TOTAL	2.44	6.64
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POND VOLUMES

POND-2 Version: 5.13

S/N: 1220510336

ROSEWOOD WASH DRAINAGE BASIN
POND #1 FIRST POND IN SERIES NEAR SPPCo SUBSTATION
5 YEAR STORM
CODEGA & FRICKE, INC 7-20-90 GMP 1016.10

CALCULATED 08-05-1990 10:03:41
DISK FILE: C:\POND2\ROSE1-5.VOL

Planimeter scale: 1 inch = 100 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqrt(A1*A2) (acres)	Volume (acre-ft)	Volume Sum (acre-ft)
5,240.00	0.39	0.09	0.00	0.00	0.00
5,245.00	1.86	0.43	0.71	1.19	1.19
5,250.00	3.52	0.81	1.82	3.04	4.22
5,250.10	3.53	0.81	2.43	0.08	4.31

2

$$IA = (\sqrt{Area1} + ((Ei-E1)/(E2-E1)) * (\sqrt{Area2}-\sqrt{Area1}))$$

where: E1, E2 = Closest two elevations with planimeter data

Ei = Elevation at which to interpolate area

Area1,Area2 = Areas computed for E1, E2, respectively

IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + \sqrt{Area1*Area2})$$

where: EL1, EL2 = Lower and upper elevations of the increment

Area1,Area2 = Areas computed for EL1, EL2, respectively

Volume = Incremental volume between EL1 and EL2

POND-2 Version: 5.13
S/N: 1220510336

ROSEWOOD WASH DETENTION BASIN
POND #2 SECOND POND IN SERIES NEAR MIDDLE OF PROJECT
5 YEAR STORM
CODEBA & FRICKE, INC 7-25-90 GMP 1016.10

CALCULATED 08-05-1990 10:04:01
DISK FILE: C:\POND2\ROSE2-5.VOL

Planimeter scale: 1 inch = 100 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqrt(A1*A2) (acres)	Volume (acre-ft)	Volume Sum (acre-ft)
5,172.00	0.97	0.22	0.00	0.00	0.00
5,180.00	3.04	0.70	1.31	3.51	3.51
5,180.10	3.05	0.70	2.10	0.07	3.58

2

$$IA = (\sqrt{Area1} + ((Ei-E1)/(E2-E1)) * (\sqrt{Area2}-\sqrt{Area1}))$$

where: Ei, E2 = Closest two elevations with planimeter data

Ei = Elevation at which to interpolate area

Area1,Area2 = Areas computed for E1, E2, respectively

IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + \sqrt{Area1*Area2})$$

where: EL1, EL2 = Lower and upper elevations of the increment

Area1,Area2 = Areas computed for EL1, EL2, respectively

Volume = Incremental volume between EL1 and EL2

POND-2 Version: 5.12
S/N: 1220510336

ROSEWOOD WASH DETENTION BASIN
POND #3 THIRD POND IN SERIES NEAR MIDDLE OF PROJECT
5 YEAR STORM
CODEGA & FRICKE, INC 7-25-90 GMF 1016.10

CALCULATED 08-05-1990 10:04:20
DISK FILE: C:\POND2\ROSE3-5.VOL

Planimeter scale: 1 inch = 100 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqrt(A1*A2) (acres)	Volume (acre-ft)	Volume Sum (acre-ft)
5,170.00	0.55	0.13	0.00	0.00	0.00
5,175.00	1.26	0.29	0.61	1.01	1.01
5,175.10	1.27	0.29	0.67	0.03	1.04

2

$$IA = (\sqrt{Area1} + ((Ei-E1)/(E2-E1)) * (\sqrt{Area2}-\sqrt{Area1}))$$

where: E1, E2 = Closest two elevations with planimeter data

Ei = Elevation at which to interpolate area

Area1, Area2 = Areas computed for E1, E2, respectively

IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + \sqrt{Area1*Area2})$$

where: EL1, EL2 = Lower and upper elevations of the increment

Area1, Area2 = Areas computed for EL1, EL2, respectively

Volume = Incremental volume between EL1 and EL2

POND-2 Version: 5.15
S/N: 1220510336

ROSEWOOD DRAINAGE BASIN
POND #5 POND NEAR TOP OF SLOPE
5 YEAR STORM
CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

CALCULATED 08-05-1990 10:04:42
DISK FILE: C:\POND2\ROSES5.VOL

Planimeter scale: 1 inch = 100 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqrt(A1*A2) (acres)	Volume (acre-ft)	Volume Sum (acre-ft)
5,146.00	0.16	0.04	0.00	0.00	0.00
5,150.00	0.61	0.14	0.24	0.33	0.33
5,154.00	1.05	0.24	0.56	0.75	1.08
5,155.00	1.10	0.25	0.74	0.25	1.32
5,155.10	1.15	0.26	0.77	0.03	1.35

2

$$IA = (\sqrt{Area1}) + ((Ei-E1)/(E2-E1)) * (\sqrt{Area2} - \sqrt{Area1})$$

where: E1, E2 = Closest two elevations with planimeter data

Ei = Elevation at which to interpolate area

Area1,Area2 = Areas computed for E1, E2, respectively

IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + \sqrt{Area1*Area2})$$

where: EL1, EL2 = Lower and upper elevations of the increment

Area1,Area2 = Areas computed for EL1, EL2, respectively

Volume = Incremental volume between EL1 and EL2

POND-2 Version: 5.13

S/N: 1220510336

ROSEWOOD WASH DRAINAGE BASIN EXISTING CONDITIONS
POND #4 - LAST POND PRIOR TO GOING DOWN SLOPE TO McCARRAN
5 YEAR STORM
CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

CALCULATED 08-05-1990 10:05:19
DISK FILE: C:\POND2\ROSEX-5.VOL

Planimeter scale: 1 inch = 100 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqrt(A1*A2) (acres)	* Volume (acre-ft)	Volume Sum (acre-ft)
5,155.00	0.00	0.00	0.00	0.00	0.00
5,160.00	0.35	0.08	0.08	0.13	0.13
5,160.10	0.36	0.08	0.24	0.01	0.14

2

$$IA = (\sqrt{Area1} + ((Ei-E1)/(E2-E1)) * (\sqrt{Area2}-\sqrt{Area1}))$$

where: E1, E2 = Closest two elevations with planimeter data
Ei = Elevation at which to interpolate area
Area1,Area2 = Areas computed for E1, E2, respectively
IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + \sqrt{(Area1*Area2)})$$

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

POND-2 Version: 5.13
S/N: 1220510336

ROSEWOOD WASH DRAINAGE BASIN EXISTING CONDITIONS
THIRD POND - POND PRIOR TO GOING DOWN SLOPE TO McCARRAN
5 YEAR STORM
CODEBA & FRICKE, INC 7-25-90 GMP 1016.10

CALCULATED 08-05-1990 10:05:35
DISK FILE: C:\POND2\ROSEX1-5.VOL

Planimeter scale: 1 inch = 100 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqrt(A1*A2) (acres)	* Volume (acre-ft)	Volume Sum (acre-ft)
5,174.00	0.10	0.02	0.00	0.00	0.00
5,176.00	0.53	0.12	0.20	0.13	0.13
5,177.00	0.69	0.16	0.42	0.14	0.27
5,177.10	0.70	0.16	0.48	0.02	0.29

2

$$IA = (\sqrt{Area1}) + ((Ei-E1)/(E2-E1)) * (\sqrt{Area2} - \sqrt{Area1})$$

where: E1, E2 = Closest two elevations with planimeter data
Ei = Elevation at which to interpolate area
Area1, Area2 = Areas computed for E1, E2, respectively
IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + \sqrt{Area1*Area2})$$

where: EL1, EL2 = Lower and upper elevations of the increment
Area1, Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

POND-2 Version 1.5.13

S/N: 1220510336

ROSEWOOD WASH DRAINAGE BASIN EXISTING CONDITIONS
THIRD POND - POND PRIOR TO GOING DOWN SLOPE TO McCARRAN
5 YEAR STORM
CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

CALCULATED 08-05-1990 10:06:08
DISK FILE: C:\POND2\ROSEX2-5.VOL

Planimeter scale: 1 inch = 100 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqrt(A1*A2) (acres)	* Volume (acre-ft)	Volume Sum (acre-ft)
5,155.00	0.00	0.00	0.00	0.00	0.00
5,160.00	0.35	0.08	0.08	0.13	0.13
5,160.10	0.36	0.08	0.24	0.01	0.14

2

$$IA = (\sqrt{Area_{E1}} + ((Ei-E1)/(E2-E1)) * (\sqrt{Area_{E2}} - \sqrt{Area_{E1}}))$$

where: E1, E2 = Closest two elevations with planimeter data

Ei = Elevation at which to interpolate area

Area1,Area2 = Areas computed for E1, E2, respectively

IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + \sqrt{Area1*Area2})$$

where: EL1, EL2 = Lower and upper elevations of the increment

Area1,Area2 = Areas computed for EL1, EL2, respectively

Volume = Incremental volume between EL1 and EL2

STRUCTURES

Outlet Structure File: ROSE1-5 .STR

POND-2 Version: 5.13

S/N: 1220510336

Date Executed:

Time Executed:

***** ROSEWOOD WASH DRAINAGE BASIN *****

POND #1

5 YEAR STORM

CODEGA & FRICKIE, INC 7-20-90 GMP 1016.10

***** COMPOSITE OUTFLOW SUMMARY *****

Elevation (ft)	Q (cfs)	Contributing Structures
5240.00	0.0	1
5240.50	0.6	1
5241.00	2.0	1
5241.50	3.4	1
5242.00	4.4	1
5242.50	5.2	1
5243.00	5.9	1
5243.50	6.5	1
5244.00	7.0	1
5244.50	7.6	1
5245.00	8.0	1
5245.50	8.5	1
5246.00	8.9	1
5246.50	9.3	1
5247.00	9.7	1 +2
5247.50	11.1	1 +2
5248.00	13.7	1 +2
5248.50	17.5	1 +2
5249.00	22.1	1 +2
5249.50	25.5	1 +2
5250.00	28.5	1 +2
5250.10	0.0	

Outlet Structure File: ROSE1-5 .STR

POND-2 Version: 5.13

S/N: 1220510336

Date Executed:

Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #1

5 YEAR STORM

CODEGA & FRICKE, INC 7-20-90 GMP 1016.10

ROSEWOOD WASH DRAINAGE BASIN

Outlet Structure File: C:\POND2\ROSE1-5 .STR

Planimeter Input File: C:\POND2\ROSE1-5 .VOL

Rating Table Output File: C:\POND2\ROSE1-5 .PND

Min. Elev.(ft) = 5240 Max. Elev.(ft) = 5250.1 Incr.(ft) = .5

Additional elevations (ft) to be included in table:

5240 5245 5250 5255 5260 5265 5270 5275 5280 5285 5290 5295 5300 5305 5310 5315 5320 5325 5330 5335 5340 5345 5350 5355 5360 5365 5370 5375 5380 5385 5390 5395 5400 5405 5410 5415 5420 5425 5430 5435 5440 5445 5450 5455 5460 5465 5470 5475 5480 5485 5490 5495 5500 5505 5510 5515 5520 5525 5530 5535 5540 5545 5550 5555 5560 5565 5570 5575 5580 5585 5590 5595 5600 5605 5610 5615 5620 5625 5630 5635 5640 5645 5650 5655 5660 5665 5670 5675 5680 5685 5690 5695 5700 5705 5710 5715 5720 5725 5730 5735 5740 5745 5750 5755 5760 5765 5770 5775 5780 5785 5790 5795 5800 5805 5810 5815 5820 5825 5830 5835 5840 5845 5850 5855 5860 5865 5870 5875 5880 5885 5890 5895 5900 5905 5910 5915 5920 5925 5930 5935 5940 5945 5950 5955 5960 5965 5970 5975 5980 5985 5990 5995 6000 6005 6010 6015 6020 6025 6030 6035 6040 6045 6050 6055 6060 6065 6070 6075 6080 6085 6090 6095 6100 6105 6110 6115 6120 6125 6130 6135 6140 6145 6150 6155 6160 6165 6170 6175 6180 6185 6190 6195 6200 6205 6210 6215 6220 6225 6230 6235 6240 6245 6250 6255 6260 6265 6270 6275 6280 6285 6290 6295 6300 6305 6310 6315 6320 6325 6330 6335 6340 6345 6350 6355 6360 6365 6370 6375 6380 6385 6390 6395 6400 6405 6410 6415 6420 6425 6430 6435 6440 6445 6450 6455 6460 6465 6470 6475 6480 6485 6490 6495 6500 6505 6510 6515 6520 6525 6530 6535 6540 6545 6550 6555 6560 6565 6570 6575 6580 6585 6590 6595 6600 6605 6610 6615 6620 6625 6630 6635 6640 6645 6650 6655 6660 6665 6670 6675 6680 6685 6690 6695 6700 6705 6710 6715 6720 6725 6730 6735 6740 6745 6750 6755 6760 6765 6770 6775 6780 6785 6790 6795 6800 6805 6810 6815 6820 6825 6830 6835 6840 6845 6850 6855 6860 6865 6870 6875 6880 6885 6890 6895 6900 6905 6910 6915 6920 6925 6930 6935 6940 6945 6950 6955 6960 6965 6970 6975 6980 6985 6990 6995 7000 7005 7010 7015 7020 7025 7030 7035 7040 7045 7050 7055 7060 7065 7070 7075 7080 7085 7090 7095 7100 7105 7110 7115 7120 7125 7130 7135 7140 7145 7150 7155 7160 7165 7170 7175 7180 7185 7190 7195 7200 7205 7210 7215 7220 7225 7230 7235 7240 7245 7250 7255 7260 7265 7270 7275 7280 7285 7290 7295 7300 7305 7310 7315 7320 7325 7330 7335 7340 7345 7350 7355 7360 7365 7370 7375 7380 7385 7390 7395 7400 7405 7410 7415 7420 7425 7430 7435 7440 7445 7450 7455 7460 7465 7470 7475 7480 7485 7490 7495 7500 7505 7510 7515 7520 7525 7530 7535 7540 7545 7550 7555 7560 7565 7570 7575 7580 7585 7590 7595 7600 7605 7610 7615 7620 7625 7630 7635 7640 7645 7650 7655 7660 7665 7670 7675 7680 7685 7690 7695 7700 7705 7710 7715 7720 7725 7730 7735 7740 7745 7750 7755 7760 7765 7770 7775 7780 7785 7790 7795 7800 7805 7810 7815 7820 7825 7830 7835 7840 7845 7850 7855 7860 7865 7870 7875 7880 7885 7890 7895 7900 7905 7910 7915 7920 7925 7930 7935 7940 7945 7950 7955 7960 7965 7970 7975 7980 7985 7990 7995 8000 8005 8010 8015 8020 8025 8030 8035 8040 8045 8050 8055 8060 8065 8070 8075 8080 8085 8090 8095 8100 8105 8110 8115 8120 8125 8130 8135 8140 8145 8150 8155 8160 8165 8170 8175 8180 8185 8190 8195 8200 8205 8210 8215 8220 8225 8230 8235 8240 8245 8250 8255 8260 8265 8270 8275 8280 8285 8290 8295 8300 8305 8310 8315 8320 8325 8330 8335 8340 8345 8350 8355 8360 8365 8370 8375 8380 8385 8390 8395 8400 8405 8410 8415 8420 8425 8430 8435 8440 8445 8450 8455 8460 8465 8470 8475 8480 8485 8490 8495 8500 8505 8510 8515 8520 8525 8530 8535 8540 8545 8550 8555 8560 8565 8570 8575 8580 8585 8590 8595 8600 8605 8610 8615 8620 8625 8630 8635 8640 8645 8650 8655 8660 8665 8670 8675 8680 8685 8690 8695 8700 8705 8710 8715 8720 8725 8730 8735 8740 8745 8750 8755 8760 8765 8770 8775 8780 8785 8790 8795 8800 8805 8810 8815 8820 8825 8830 8835 8840 8845 8850 8855 8860 8865 8870 8875 8880 8885 8890 8895 8900 8905 8910 8915 8920 8925 8930 8935 8940 8945 8950 8955 8960 8965 8970 8975 8980 8985 8990 8995 9000 9005 9010 9015 9020 9025 9030 9035 9040 9045 9050 9055 9060 9065 9070 9075 9080 9085 9090 9095 9100 9105 9110 9115 9120 9125 9130 9135 9140 9145 9150 9155 9160 9165 9170 9175 9180 9185 9190 9195 9200 9205 9210 9215 9220 9225 9230 9235 9240 9245 9250 9255 9260 9265 9270 9275 9280 9285 9290 9295 9300 9305 9310 9315 9320 9325 9330 9335 9340 9345 9350 9355 9360 9365 9370 9375 9380 9385 9390 9395 9400 9405 9410 9415 9420 9425 9430 9435 9440 9445 9450 9455 9460 9465 9470 9475 9480 9485 9490 9495 9500 9505 9510 9515 9520 9525 9530 9535 9540 9545 9550 9555 9560 9565 9570 9575 9580 9585 9590 9595 9600 9605 9610 9615 9620 9625 9630 9635 9640 9645 9650 9655 9660 9665 9670 9675 9680 9685 9690 9695 9700 9705 9710 9715 9720 9725 9730 9735 9740 9745 9750 9755 9760 9765 9770 9775 9780 9785 9790 9795 9800 9805 9810 9815 9820 9825 9830 9835 9840 9845 9850 9855 9860 9865 9870 9875 9880 9885 9890 9895 9900 9905 9910 9915 9920 9925 9930 9935 9940 9945 9950 9955 9960 9965 9970 9975 9980 9985 9990 9995 9999

SYSTEM CONNECTIVITY

ROSEWOOD WASH DRAINAGE BASIN

Structure	No.	Q Table	Q Table
CULVERT-CR	1	->	1
CULVERT-CR	2	->	2

Outflow rating table summary was stored in file:

C:\POND2\ROSE1-5 .PND

Outlet Structure File: ROSE1-5.STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #2 - -

5 YEAR STORM

CODESA & FRICKE, INC 7-20-90 GMP 1016.10

>>>> Structure No. 1 <<<<<
(Input Data)

CULVERT-CR

Circular Culvert (With Inlet Control)

E1 elev.(ft)?	5240
E2 elev.(ft)?	5250.1
Diam. (ft)?	.833
Inv. el.(ft)?	5240
Slope (ft/ft)?	.010
T1 ratio?	
T2 ratio?	
K Coeff.?	.534
M Coeff.?	.555
c Coeff.?	.0196
Y Coeff.?	.89
Form 1 or 2?	2
Slope factor?	-.5

Outlet Structure File: ROSE1-S.STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #4 - - -

5 YEAR STORM

CODEGA & FRICKE, INC 7-20-90 GMP 1016.10

>>>> Structure No. 2 <<<<<
(Input Data)

CULVERT-CR

Circular Culvert (With Inlet Control)

E1 elev.(ft)?	5247.0
E2 elev.(ft)?	5250.1
Diam. (ft)?	1.5
Inv. el.(ft)?	5247.0
Slope (ft/ft)?	.10
T1 ratio?	
T2 ratio?	
K Coeff.? .534	
M Coeff.? .555	
c Coeff.? .0196	
Y Coeff.? .89	
Form 1 or 2? 2	
Slope factor? -.5	

Outlet Structure File: ROSE1-5 .STR

POND-2 Version: 5.13

S/N: 1220510336

Date Executed:

Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #1 - -

5 YEAR STORM

CODEGA & FRICKE, INC 7-20-90 GMP 1016.10

Outflow Rating Table for Structure #1
CULVERT-CR Circular Culvert (With Inlet Control)

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5240.00	0.0	No headwater	
5240.50	0.6	Equ.2:	HW = .5
5241.00	2.0	Submerged:	HW = 1.0
5241.50	3.4	Submerged:	HW = 1.5
5242.00	4.4	Submerged:	HW = 2.0
5242.50	5.2	Submerged:	HW = 2.5
5243.00	5.9	Submerged:	HW = 3.0
5243.50	6.5	Submerged:	HW = 3.5
5244.00	7.0	Submerged:	HW = 4.0
5244.50	7.6	Submerged:	HW = 4.5
5245.00	8.0	Submerged:	HW = 5.0
5245.50	8.5	Submerged:	HW = 5.5
5246.00	8.9	Submerged:	HW = 6.0
5246.50	9.3	Submerged:	HW = 6.5
5247.00	9.7	Submerged:	HW = 7.0
5247.50	10.1	Submerged:	HW = 7.5
5248.00	10.5	Submerged:	HW = 8.0
5248.50	10.8	Submerged:	HW = 8.5
5249.00	11.2	Submerged:	HW = 9.0
5249.50	11.5	Submerged:	HW = 9.5
5250.00	11.8	Submerged:	HW = 10.0
5250.10	0.0	E = or > E2=5250.1	

Used Unsubmerged Eq. Form (2) for elev. less than 5240.89 ft
Used Submerged Equation for elevations greater than 5241.0 ft
HW=Headwater (ft)

Transition flows interpolated from the following values:
E1=5240.89 ft; Q1=1.74 cfs; E2=5241.0 ft; Q2=1.99 cfs

Outlet Structure File: ROSE1-S.STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #1
5 YEAR STORM

CODEGA & FRICKE, INC 7-20-90 GMP 1016.10

Outflow Rating Table for Structure #2
CULVERT-CR Circular Culvert (With Inlet Control)

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5240.00	0.0	E < Inv.El.= 5247	
5240.50	0.0	E < Inv.El.= 5247	
5241.00	0.0	E < Inv.El.= 5247	
5241.50	0.0	E < Inv.El.= 5247	
5242.00	0.0	E < Inv.El.= 5247	
5242.50	0.0	E < Inv.El.= 5247	
5243.00	0.0	E < Inv.El.= 5247	
5243.50	0.0	E < Inv.El.= 5247	
5244.00	0.0	E < Inv.El.= 5247	
5244.50	0.0	E < Inv.El.= 5247	
5245.00	0.0	E < Inv.El.= 5247	
5245.50	0.0	E < Inv.El.= 5247	
5246.00	0.0	E < Inv.El.= 5247	
5246.50	0.0	E < Inv.El.= 5247	
5247.00	0.0	No headwater	
5247.50	1.0	Equ.2: HW=.5	
5248.00	3.2	Equ.2: HW=1.0	
5248.50	6.7	Equ.2: HW=1.5	
5249.00	10.9	Submerged: HW=2.0	
5249.50	14.0	Submerged: HW=2.5	
5250.00	16.7	Submerged: HW=3.0	
5250.10	0.0	E = or > E2=5250.1	

Used Unsubmerged Equ. Form (2) for elev. less than 5248.61 ft
Used Submerged Equation for elevations greater than 5248.73 ft
HW=Headwater (ft)

Transition flows interpolated from the following values:
E1=5248.61 ft; Q1=7.58 cfs; E2=5248.73 ft; Q2=8.66 cfs

Outlet Structure File: ROSE2-5.STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #2 SECOND POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

***** COMPOSITE OUTFLOW SUMMARY *****

Elevation (ft)	Q (cfs)	Contributing Structures
5172.00	0.0	1
5172.50	0.6	1
5173.00	2.0	1
5173.50	3.4	1
5174.00	4.4	1
5174.50	5.2	1
5175.00	5.9	1
5175.50	6.5	1
5176.00	7.0	1
5176.50	7.6	1
5177.00	8.0	1 +2
5177.50	9.6	1 +2
5178.00	12.9	1 +2
5178.50	17.5	1 +2
5179.00	23.5	1 +2
5179.50	30.3	1 +2
5180.00	36.2	1 +2
5180.10	0.0	

Outlet Structure File: ROSE2-5 .STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510334
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #2 SECOND POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

Outlet Structure File: C:\POND2\ROSE2-5 .STR

Planimeter Input File: C:\POND2\ROSE2-5 .VOL

Rating Table Output File: C:\POND2\ROSE2-5 .PND

Min. Elev. (ft) = 5172 Max. Elev. (ft) = 5180.1 Incr. (ft) = .5

Additional elevations (ft) to be included in table:

SYSTEM CONNECTIVITY

Structure	No.	Q Table	Q Table
CULVERT-CR	1	->	1
CULVERT-CR	2	->	2

Outflow rating table summary was stored in file:
C:\POND2\ROSE2-5 .PND

Outlet Structure File: ROSE2-S.STR

POND-2 Version: 5.13

S/N: 1220510336

Date Executed:

Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #2 SECOND POND IN A SERIES (NEAR MIDDLE OF PROJECT)

5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

ROSEWOOD WASH DRAINAGE BASIN

>>>> Structure No. 1 <<<<<
(Input Data)

CULVERT-CR

Circular Culvert (With Inlet Control)

E1 elev. (ft)?	5172
E2 elev. (ft)?	5180.1
Diam. (ft)?	.833
Inv. el. (ft)?	5172
Slope (ft/ft)?	.010
T1 ratio?	
T2 ratio?	
K Coeff.?	.534
M Coeff.?	.555
c Coeff.?	.0196
Y Coeff.?	.89
Form 1 or 2?	2
Slope factor?	-.5

Outlet Structure File: ROSE2-5.STR

POND-2 Version: 5.13

S/N: 1220510336

Date Executed:

Time Executed:

ROSEWOOD WASH DRAINAGE BASIN
POND #2 SECOND POND IN A SERIES (NEAR MIDDLE OF PROJECT)

CODE 000A 84 関西 RICOH 計算機 INC 7-25-70 GMF 1016.10

>>>> Structure No. 2 <<<<
(Input Data)

CULVERT-CR

Circular Culvert (With Inlet Control)

E1 elev. (ft)?	5177.0
E2 elev. (ft)?	5180.1
Diam. (ft)?	2.0
Inv. el. (ft)?	5177.0
Slope (ft/ft)?	.10
T1 ratio?	
T2 ratio?	
K Coeff.?	.534
M Coeff.?	.555
c Coeff.?	.0196
Y Coeff.?	.89
Form 1 or 2?	2
Slope factor?	-.5

Outlet Structure File: ROSE2-5 .STR

POND-2 Version: 5.13
Date Executed:S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #2 SECOND POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

Outflow Rating Table for Structure #1
CULVERT-CR Circular Culvert (With Inlet Control)

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5172.00	0.0	No headwater	
5172.50	0.6	Equ.2:	HW = .5
5173.00	2.0	Submerged:	HW = 1.0
5173.50	3.4	Submerged:	HW = 1.5
5174.00	4.4	Submerged:	HW = 2.0
5174.50	5.2	Submerged:	HW = 2.5
5175.00	5.9	Submerged:	HW = 3.0
5175.50	6.5	Submerged:	HW = 3.5
5176.00	7.0	Submerged:	HW = 4.0
5176.50	7.6	Submerged:	HW = 4.5
5177.00	8.0	Submerged:	HW = 5.0
5177.50	8.5	Submerged:	HW = 5.5
5178.00	8.9	Submerged:	HW = 6.0
5178.50	9.3	Submerged:	HW = 6.5
5179.00	9.7	Submerged:	HW = 7.0
5179.50	10.1	Submerged:	HW = 7.5
5180.00	10.5	Submerged:	HW = 8.0
5180.10	0.0	E = or > E2=5180.1	

Used Unsubmerged Eqn. Form (2) for elev. less than 5172.89 ft

Used Submerged Equation for elevations greater than 5173.0 ft

HW=Headwater (ft)

Transition flows interpolated from the following values:
E1=5172.89 ft; Q1=1.74 cfs; E2=5173.0 ft; Q2=1.99 cfs

Outlet Structure File: ROSE2-5.STR

POND-2 Version: 5.13
Date Executed:S/N: 1220E10334
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #2 SECOND POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

Outflow Rating Table for Structure #2
CULVERT-CR Circular Culvert (With Inlet Control)

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5172.00	0.0	E < Inv.El.= 5177	
5172.50	0.0	E < Inv.El.= 5177	
5173.00	0.0	E < Inv.El.= 5177	
5173.50	0.0	E < Inv.El.= 5177	
5174.00	0.0	E < Inv.El.= 5177	
5174.50	0.0	E < Inv.El.= 5177	
5175.00	0.0	E < Inv.El.= 5177	
5175.50	0.0	E < Inv.El.= 5177	
5176.00	0.0	E < Inv.El.= 5177	
5176.50	0.0	E < Inv.El.= 5177	
5177.00	0.0	No headwater	
5177.50	1.1	Equ.2: HW = .5	
5178.00	4.0	Equ.2: HW = 1.0	
5178.50	8.2	Equ.2: HW = 1.5	
5179.00	13.7	Equ.2: HW = 2.0	
5179.50	20.2	Submerged: HW = 2.5	
5180.00	25.7	Submerged: HW = 3.0	
5180.10	0.0	E = or > E2=5180.1	

Used Unsubmerged Equ. Form (2) for elev. less than 5179.14 ft
Used Submerged Equation for elevations greater than 5179.31 ft
HW=Headwater (ft)Transition flows interpolated from the following values:
E1=5179.14 ft; Q1=15.55 cfs; E2=5179.31 ft; Q2=17.77 cfs

Outlet Structure File: ROSE3-5 .STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #3 THIRD POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

ROSEWOOD WASH DRAINAGE BASIN

COMPOSITE OUTFLOW SUMMARY

Elevation (ft)	Q (cfs)	Contributing Structures
5170.00	0.0	1
5170.50	0.8	1
5171.00	2.9	1
5171.50	5.5	1
5172.00	8.3	1
5172.50	10.3	1
5173.00	12.1	1 +2
5173.50	14.7	1 +2
5174.00	18.9	1 +2
5174.50	24.4	1 +2
5175.00	31.0	1 +2
5175.10	0.0	

Outlet Structure File: ROSE3-5 .STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #3 THIRD POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

ROSEWOOD WASH DRAINAGE BASIN

Outlet Structure File: C:\POND2\ROSE3-5 .STR

Planimeter Input File: C:\POND2\ROSE3-5 .VOL

Rating Table Output File: C:\POND2\ROSE3-5 .PND

Min. Elev.(ft) = 5170 Max. Elev.(ft) = 5175.1 Incr.(ft) = .5

Additional elevations (ft) to be included in table:

5170.5 5171.0 5171.5 5172.0 5172.5 5173.0 5173.5 5174.0 5174.5 5175.0

SYSTEM CONNECTIVITY

CULVERT-CR 1 -> 1
CULVERT-CR 2 -> 2

Outflow rating table summary was stored in file:
C:\POND2\ROSE3-5 .PND

Outlet Structure File: ROSE3-5 .STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #3 THIRD POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

>>>>> Structure No. 1 <<<<<
(Input Data)

CULVERT-CR

Circular Culvert (With Inlet Control)

E1 elev. (ft)?	5170
E2 elev. (ft)?	5175.1
Diam. (ft)?	1.25
Inv. el. (ft)?	5170
Slope (ft/ft)?	.010
T1 ratio?	
T2 ratio?	
K Coeff.?	.534
M Coeff.?	.555
c Coeff.?	.0194
Y Coeff.?	.89
Form 1 or 2?	2
Slope factor?	-.5

Outlet Structure File: ROSE3-5 .STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #3 THIRD POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

ROSEWOOD WASH DRAINAGE BASIN

>>>>> Structure No. 2 <<<<<
(Input Data)

CULVERT-CR

Circular Culvert (With Inlet Control)

E1 elev. (ft)?	5173.0
E2 elev. (ft)?	5175.1
Diam. (ft)?	2.0
Inv. el. (ft)?	5173.0
Slope (ft/ft)?	.10
T1 ratio?	
T2 ratio?	
K Coeff.?	.534
M Coeff.?	.555
c Coeff.?	.0196
Y Coeff.?	.89
Form 1 or 2?	2
Slope factor?	-.5

Outlet Structure File: ROSE3-S .STR

POND-2 Version: 5.13
Date Executed:S/N: 1220510336
Time Executed:*****
ROSEWOOD WASH DRAINAGE BASINPOND #3 THIRD POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

Outflow Rating Table for Structure #1
CULVERT-CR Circular Culvert (With Inlet Control)

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5170.00	0.0	No headwater	
5170.50	0.8	Equ. 2: HW = .5	
5171.00	2.9	Equ. 2: HW = 1.0	
5171.50	5.5	Submerged: HW = 1.5	
5172.00	8.3	Submerged: HW = 2.0	
5172.50	10.3	Submerged: HW = 2.5	
5173.00	12.1	Submerged: HW = 3.0	
5173.50	13.5	Submerged: HW = 3.5	
5174.00	14.9	Submerged: HW = 4.0	
5174.50	16.2	Submerged: HW = 4.5	
5175.00	17.3	Submerged: HW = 5.0	
5175.10	0.0	E = or > E2=5175.1	

Used Unsubmerged Equ. Form (2) for elev. less than 5171.34 ft
Used Submerged Equation for elevations greater than 5171.5 ft
HW=Headwater (ft)Transition flows interpolated from the following values:
E1=5171.34 ft; Q1=4.8 cfs; E2=5171.5 ft; Q2=5.49 cfs

Outlet Structure File: ROSES-5 .STR

POND-2 Version: 5.13
Date Executed:S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #3 THIRD POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

Outflow Rating Table for Structure #2
CULVERT-DR Circular Culvert (With Inlet Control)

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5170.00	0.0	E < Inv.El.= 5173	
5170.50	0.0	E < Inv.El.= 5173	
5171.00	0.0	E < Inv.El.= 5173	
5171.50	0.0	E < Inv.El.= 5173	
5172.00	0.0	E < Inv.El.= 5173	
5172.50	0.0	E < Inv.El.= 5173	
5173.00	0.0	No headwater	
5173.50	1.1	Equ.2: HW = .5	
5174.00	4.0	Equ.2: HW = 1.0	
5174.50	6.2	Equ.2: HW = 1.5	
5175.00	13.7	Equ.2: HW = 2.0	
5175.10	0.0	E = or > E2=5175.1	

Used Unsubmerged Equ. Form (2) for elev. less than 5175.14 ft

Used Submerged Equation for elevations greater than 5175.31 ft

HW=Headwater (ft)

Transition flows interpolated from the following values:
E1=5175.14 ft; Q1=15.55 cfs; E2=5175.31 ft; Q2=17.77 cfs

Outlet Structure File: ROSE4-5 .STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #4 LAST POND PRIOR TO GO DOWN SLOPE TO McCARRAN BLVD
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

***** COMPOSITE OUTFLOW SUMMARY *****

Elevation (ft)	Q (cfs)	Contributing Structures
5155.00	0.0	1
5155.50	1.1	1
5156.00	4.0	1
5156.50	8.2	1
5157.00	13.7	1 +2
5157.50	33.4	1 +2
5158.00	64.3	1 +2
5158.50	91.9	1 +2
5159.00	118.1	1 +2
5159.50	133.1	1 +2
5160.00	145.4	1 +2
5160.10	147.7	1 +2

Outlet Structure File: ROSE4-5 .STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #4 LAST POND PRIOR TO GO DOWN SLOPE TO McCARRAN BLVD
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

Outlet Structure File: C:\POND2\ROSE4-5 .STR

Planimeter Input File: C:\POND2\ROSE4-5 .VOL

Rating Table Output File: C:\POND2\ROSE4-5 .PND

Min. Elev.(ft) = 5155 Max. Elev.(ft) = 5160.1 Incr.(ft) = .5

Additional elevations (ft) to be included in table:

SYSTEM CONNECTIVITY

Structure	No.	Q Table	Q Table
CULVERT-CR	1	->	1
STAND PIPE	2	->	2

Outflow rating table summary was stored in file:
C:\POND2\ROSE4-5 .PND

Outlet Structure File: ROE4-5.STR

POND-2 Version: 5.13
Date Executed:S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #4 LAST POND PRIOR TO GO DOWN SLOPE TO McCARRAN BLVD
5 YEAR STORM

CODEBA & FRICKE, INC 7-25-90 BMP 1016.10

ROSEWOOD WASH DRAINAGE BASIN

>>>>> Structure No. 1 <<<<<
(Input Data)

CULVERT-CR

Circular Culvert (With Inlet Control)

E1 elev. (ft)?	5155
E2 elev. (ft)?	5160.101
Diam. (ft)?	2.00
Inv. el. (ft)?	5155.00
Slope (ft/ft)?	.050
T1 ratio?	
T2 ratio?	
K Coeff.?	.534
M Coeff.?	.555
c Coeff.?	.0196
Y Coeff.?	.89
Form 1 or 2?	2
Slope factor?	-.5

Outlet Structure File: ROSE4-5.STR

POND-2 Version: 5.13

S/N: 1220510336

Date Executed:

Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #4 LAST POND PRIOR TO GO DOWN SLOPE TO McCARRAN BLVD
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

>>>>> Structure No. 2 <<<<<
(Input Data)

STAND PIPE

Stand Pipe with weir or orifice flow

E1 elev. (ft)?	5157
E2 elev. (ft)?	5160.101
Crest elev. (ft)?	5157.00
Diameter (ft)?	4
Weir coefficient?	3.1
Orifice coefficient?	.60
Start transition elev. (ft) @ ?	
Transition height (ft)?	1.0

Outlet Structure File: ROGE4-5 .STR

PCND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #4 LAST POND PRIOR TO GO DOWN SLOPE TO McDARRAN BLVD
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

ROSEWOOD WASH DRAINAGE BASIN

Outflow Rating Table for Structure #1
CULVERT-CR Circular Culvert (with Inlet Control)

INLET CONTROL ASSUMED

Elevation (ft)	Q (cfs)	Computation	Messages
5155.00	0.0	No headwater	
5155.50	1.1	Equ.2:	HW = .5
5156.00	4.0	Equ.2:	HW = 1.0
5156.50	8.2	Equ.2:	HW = 1.5
5157.00	13.7	Equ.2:	HW = 2.0
5157.50	19.6	Submerged:	HW = 2.5
5158.00	25.4	Submerged:	HW = 3.0
5158.50	29.9	Submerged:	HW = 3.5
5159.00	33.8	Submerged:	HW = 4.0
5159.50	37.4	Submerged:	HW = 4.5
5160.00	40.6	Submerged:	HW = 5.0
5160.10	41.2	Submerged:	HW = 5.1

Used Unsubmerged Equ. Form (2) for elev. less than 5157.14 ft

Used Submerged Equation for elevations greater than 5157.36 ft

HW=Headwater (ft)

Transition flows interpolated from the following values:
E1=5157.14 ft; Q1=15.55 cfs; E2=5157.36 ft; Q2=17.77 cfs

Outlet Structure File: ROSE4-5.STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #4 LAST POND PRIOR TO GO DOWN SLOPE TO McCARRAN BLVD
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

ROSEWOOD WASH DRAINAGE BASIN

Outflow Rating Table for Structure #2
STAND PIPE Stand Pipe with weir or orifice flow

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5155.00	0.0	E < Inv.E1.= 5157	
5155.50	0.0	E < E1= 5157	
5156.00	0.0	E < E1= 5157	
5156.50	0.0	E < E1= 5157	
5157.00	0.0	Weir: H =0.0	
5157.50	13.8	Weir: H =.5	
5158.00	39.0	Weir: H =1.0	
5158.50	62.0	Transition: H =1.5	
5159.00	84.3	Transition: H =2.0	
5159.50	95.7	Orifice: H =2.5	
5160.00	104.8	Orifice: H =3.0	
5160.10	106.5	Orifice: H =3.1	

Weir Cw = 3.1 Weir length = 12.56637 ft

Orifice Co = .6 Orifice area = 12.56637 sq.ft.

Q (cfs) = (Cw * L * H**1.5) or (Co * A * sqrt(2*g*H))

Transition interpolated between elev. 5158.053 and 5159.053 ft

Weir equation = Orifice equation @ elev.= 5158.553 ft

Outlet Structure File: ROSES5.STR

POND-2 Version: 5.13

S/N: 1220510336

Date Executed:

Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #5 POND IN EASTGATE AT TOP OF SLOPE

5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

***** COMPOSITE OUTFLOW SUMMARY *****

Elevation (ft)	Q (cfs)	Contributing Structures
5146.00	0.0	1
5146.50	1.0	1
5147.00	3.2	1
5147.50	6.7	1
5148.00	10.6	1
5148.50	13.8	1
5149.00	16.5	1
5149.50	18.7	1
5150.00	20.7	1
5150.50	22.6	1
5151.00	24.3	1
5151.50	25.9	1
5152.00	27.4	1
5152.50	28.8	1 +2
5153.00	43.9	1 +2
5153.50	70.4	1 +2
5154.00	94.7	1 +2
5154.50	118.2	1 +2
5155.00	130.7	1 +2
5155.10	132.6	1 +2

Outlet Structure File: ROSE5-5 .STR

POND-2 Version: 5.13

S/N: 1220510336

Date Executed:

Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #3 POND IN EASTGATE AT TOP OF SLOPE
5 YEAR STORM

CODEBA & FRICKE, INC 7-25-90 GMP 1016.10

Outlet Structure File: C:\POND2\ROSE5-5 .STR

Planimeter Input File: C:\POND2\ROSE5-5 .VOL

Rating Table Output File: C:\POND2\ROSE5-5 .PND

Min. Elev. (ft) = 5146.1 Max. Elev. (ft) = 5155.1 Incr. (ft) = .5

Additional elevations (ft) to be included in table:

SYSTEM CONNECTIVITY

Structure	No.	Q Table	Q Table
CULVERT-CR.	1	→	1
STAND PIPE	2	→	2

Outflow rating table summary was stored in file:
C:\POND2\ROSE5-5 .PND

Outlet Structure File: ROSE5-5.STR

POND-2 Version: 5.13
Date Executed:

S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #5 POND IN EASTDATE AT TOP OF SLOPE
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

>>>> Structure No. 1 <<<<<
(Input Data)

CULVERT-OR

Circular Culvert (With Inlet Control)

E1 elev. (ft)?	5146
E2 elev. (ft)?	5155.101
Diam. (ft)?	1.50
Inv. el. (ft)?	5146.00
Slope (ft/ft)?	.050
T1 ratio?	
T2 ratio?	
K Coeff.?	.534
M Coeff.?	.555
C Coeff.?	.0196
Y Coeff.?	.89
Form 1 or 2?	2
Slope factor?	-.5

Outlet Structure File: ROSES-5 .STR

POND-2 Version: 2.13
Date Executed:

S/N: 1220510334
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #5 POND IN EASTGATE AT TOP OF SLOPE
5 YEAR STORM

CODEGA & FRICKE, INC 7-25-90 GMP 1016.10

>>>>> Structure No. 2 <<<<<
(Input Data)

. STAND PIPE

Stand Pipe with weir or orifice flow

E1 elev. (ft)?	5152.5
E2 elev. (ft)?	5155.10
Crest elev. (ft)?	5152.50
Diameter (ft)?	4
Weir coefficient?	3.1
Orifice coefficient?	.60
Start transition elev. (ft) @ ?	
Transition height (ft)?	1.0

Outlet Structure File: ROSE5-5 .STR

POND-2 Version: 5.13
Date Executed:S/N: 1220510336
Time Executed:*****
ROSEWOOD WASH DRAINAGE BASINPOND #5 POND IN EASTGATE AT TOP OF SLOPE
5 YEAR STORM

CODEBA & FRICKE, INC 7-25-90 GMP 1016.10

Outflow Rating Table for Structure #1
CULVERT-CR Circular Culvert (With Inlet Control)

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5146.00	0.0	No headwater	
5146.50	1.0	Equ.2:	HW = .5
5147.00	3.2	Equ.2:	HW = 1.0
5147.50	6.7	Equ.2:	HW = 1.5
5148.00	10.6	Submerged:	HW = 2.0
5148.50	13.6	Submerged:	HW = 2.5
5149.00	16.5	Submerged:	HW = 3.0
5149.50	19.7	Submerged:	HW = 3.5
5150.00	20.7	Submerged:	HW = 4.0
5150.50	22.6	Submerged:	HW = 4.5
5151.00	24.3	Submerged:	HW = 5.0
5151.50	25.9	Submerged:	HW = 5.5
5152.00	27.4	Submerged:	HW = 6.0
5152.50	28.8	Submerged:	HW = 6.5
5153.00	30.1	Submerged:	HW = 7.0
5153.50	31.4	Submerged:	HW = 7.5
5154.00	32.7	Submerged:	HW = 8.0
5154.50	33.9	Submerged:	HW = 8.5
5155.00	35.0	Submerged:	HW = 9.0
5155.10	35.2	Submerged:	HW = 9.1

Used Unsubmerged Equ. Form (2) for elev. less than 5147.61 ft

Used Submerged Equation for elevations greater than 5147.77 ft

HW=Headwater (ft)

Transition flows interpolated from the following values:
E1=5147.61 ft; Q1=7.58 cfs; E2=5147.77 ft; Q2=8.66 cfs

Outlet Structure File: ROSE5.STR

POND-2 Version: 5.13
Date Executed:S/N: 1220510336
Time Executed:

ROSEWOOD WASH DRAINAGE BASIN

POND #5 POND IN EASTGATE AT TOP OF SLOPE
5 YEAR STORMCODEGA & FRICKE, INC 7-25-90 GMP 1016.10
*****Outflow Rating Table for Structure #2
STAND PIPE Stand Pipe with weir or orifice flow

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
5146.00	0.0	E < Inv.E1 = 5152.5	
5146.50	0.0	E < E1 = 5152.5	
5147.00	0.0	E < E1 = 5152.5	
5147.50	0.0	E < E1 = 5152.5	
5148.00	0.0	E < E1 = 5152.5	
5148.50	0.0	E < E1 = 5152.5	
5149.00	0.0	E < E1 = 5152.5	
5149.50	0.0	E < E1 = 5152.5	
5150.00	0.0	E < E1 = 5152.5	
5150.50	0.0	E < E1 = 5152.5	
5151.00	0.0	E < E1 = 5152.5	
5151.50	0.0	E < E1 = 5152.5	
5152.00	0.0	E < E1 = 5152.5	
5152.50	0.0	Weir: H =0.0	
5153.00	13.8	Weir: H =.5	
5153.50	39.0	Weir: H =1.0	
5154.00	62.0	Transition: H =1.5	
5154.50	84.3	Transition: H =2.0	
5155.00	95.7	Orifice: H =2.5	
5155.10	97.6	Orifice: H =2.6	

Weir Cw = 3.1 Weir length = 12.56637 ft

Orifice Co = .6 Orifice area = 12.56637 sq.ft.

 $Q (\text{cfs}) = (Cw * L * H^{3.5}) \text{ or } (Co * A * \sqrt{2gH})$

Transition interpolated between elev. 5153.553 and 5154.553 ft

Weir equation = Orifice equation @ elev.= 5154.053 ft

ROUTING

POND-2 Version: 5.13 S/N: 1220510336
EXECUTED: 08-05-1990 10:27:49

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ROSEWOOD WASH DRAINAGE BASIN

POND #1

5 YEAR STORM

CODEGA & FRICKE, INC 6-5-90 - GMP 1016.10

Inflow Hydrograph: C:\POND2\ROSE1-5I.HYD

Rating Table file: C:\POND2\ROSE1-5.PND

-----INITIAL CONDITIONS-----

Elevation = 5240.00 ft

Outflow = 0.00 cfs

Storage = 0.00 ac-ft

GIVEN POND DATA

INTERMEDIATE ROUTING COMPUTATIONS

EL ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + Q (cfs)
5240.00	0.0	0.000	0.0	0.0
5240.50	0.6	0.050	12.2	12.8
5241.00	2.0	0.112	27.2	29.2
5241.50	3.4	0.188	45.4	48.8
5242.00	4.4	0.277	67.1	71.5
5242.50	5.2	0.382	92.6	97.2
5243.00	5.9	0.505	122.1	128.0
5243.50	6.5	0.645	156.0	162.5
5244.00	7.0	0.804	194.7	201.7
5244.50	7.6	0.985	238.3	245.9
5245.00	8.0	1.187	287.2	295.2
5245.50	8.5	1.408	340.8	349.3
5246.00	8.9	1.647	398.5	407.4
5246.50	9.3	1.902	460.3	469.6
5247.00	9.7	2.176	528.5	536.2
5247.50	11.1	2.467	597.1	608.2
5248.00	13.7	2.778	672.3	686.0
5248.50	17.5	3.109	752.3	769.8
5249.00	22.1	3.459	837.2	859.3
5249.50	25.5	3.831	927.1	952.6
5250.00	28.5	4.224	1022.3	1050.8

Time increment (t) = 0.100 hrs.

Pond File: C:\POND2\ROSE1-5.PND
 Inflow Hydrograph: C:\POND2\ROSE1-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE1-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
11.000	0.001	-----	0.0	0.0	0.00	5240.00
11.100	0.001	0.0	0.0	0.0	0.00	5240.00
11.200	0.001	0.0	0.0	0.0	0.00	5240.00
11.300	0.001	0.0	0.0	0.0	0.00	5240.00
11.400	0.001	0.0	0.0	0.0	0.00	5240.00
11.500	1.001	1.0	0.9	1.0	0.05	5240.04
11.600	1.001	2.0	2.6	2.9	0.14	5240.11
11.700	2.001	3.0	5.1	5.6	0.26	5240.22
11.800	2.001	4.0	8.2	9.1	0.43	5240.36
11.900	3.001	5.0	12.0	13.2	0.64	5240.51
12.000	8.001	11.0	20.0	23.0	1.47	5240.81
12.100	20.001	28.0	41.3	48.0	3.34	5241.48
12.200	33.001	53.0	84.1	94.3	5.10	5242.43
12.300	31.001	64.0	135.6	148.1	6.25	5243.29
12.400	23.001	54.0	176.0	189.6	6.85	5243.85
12.500	15.001	38.0	199.6	214.0	7.17	5244.14
12.600	12.001	27.0	211.9	226.6	7.34	5244.26
12.700	9.001	21.0	218.1	232.9	7.42	5244.35
12.800	7.001	16.0	219.2	234.1	7.44	5244.37
12.900	6.001	13.0	217.4	232.2	7.41	5244.35
13.000	6.001	12.0	214.6	229.4	7.38	5244.31
13.100	6.001	12.0	212.0	226.6	7.34	5244.28
13.200	5.001	11.0	208.4	223.0	7.29	5244.24
13.300	4.001	9.0	203.0	217.4	7.21	5244.18
13.400	4.001	8.0	196.7	211.0	7.13	5244.11
13.500	4.001	8.0	190.6	204.7	7.04	5244.03
13.600	4.001	8.0	184.7	198.6	6.96	5243.96
13.700	4.001	8.0	178.9	192.7	6.89	5243.89
13.800	4.001	8.0	173.3	186.9	6.81	5243.81
13.900	4.001	8.0	167.8	181.3	6.74	5243.74
14.000	4.001	8.0	162.5	175.8	6.67	5243.67
14.100	3.001	7.0	156.3	169.5	6.59	5243.59
14.200	3.001	6.0	149.3	162.3	6.50	5243.50
14.300	2.001	5.0	141.6	154.3	6.36	5243.38
14.400	2.001	4.0	133.2	145.6	6.21	5243.25
14.500	2.001	4.0	125.1	137.2	6.06	5243.13
14.600	2.001	4.0	117.2	129.1	5.92	5243.02
14.700	2.001	4.0	109.7	121.2	5.74	5242.89
14.800	2.001	4.0	102.6	113.7	5.57	5242.76
14.900	2.001	4.0	95.8	106.6	5.40	5242.65
15.000	2.001	4.0	89.3	99.8	5.25	5242.53
15.100	2.001	4.0	83.2	93.3	5.06	5242.42
15.200	2.001	4.0	77.4	87.2	4.88	5242.30
15.300	2.001	4.0	72.0	81.4	4.70	5242.19
15.400	2.001	4.0	66.9	76.0	4.54	5242.07

Pond File: C:\POND2\ROSE1-5.PND
 Inflow Hydrograph: C:\POND2\ROSE1-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE1-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
15.500	2.001	4.0	62.2	70.91	4.38	5241.99
15.600	2.001	4.0	57.9	66.21	4.17	5241.88
15.700	2.001	4.0	53.9	61.91	3.98	5241.79
15.800	2.001	4.0	50.3	57.91	3.80	5241.70
15.900	2.001	4.0	47.0	54.31	3.64	5241.62
16.000	2.001	4.0	44.0	51.01	3.50	5241.55
16.100	2.001	4.0	41.3	48.01	3.34	5241.48
16.200	2.001	4.0	39.0	45.31	3.15	5241.41
16.300	1.001	3.0	36.2	42.01	2.92	5241.33
16.400	1.001	2.0	32.9	38.21	2.64	5241.23
16.500	1.001	2.0	30.1	34.91	2.41	5241.15
16.600	1.001	2.0	27.7	32.11	2.21	5241.07
16.700	1.001	2.0	25.6	29.71	2.03	5241.01
16.800	1.001	2.0	23.9	27.61	1.86	5240.95
16.900	1.001	2.0	22.5	25.91	1.72	5240.90
17.000	1.001	2.0	21.3	24.51	1.60	5240.86
17.100	1.001	2.0	20.3	23.31	1.49	5240.82
17.200	1.001	2.0	19.5	22.31	1.41	5240.79
17.300	1.001	2.0	18.8	21.51	1.34	5240.76
17.400	1.001	2.0	18.2	20.91	1.28	5240.74
17.500	1.001	2.0	17.7	20.21	1.23	5240.73
17.600	1.001	2.0	17.4	19.71	1.19	5240.71
17.700	1.001	2.0	17.0	19.41	1.16	5240.70
17.800	1.001	2.0	16.8	19.01	1.13	5240.69
17.900	1.001	2.0	16.5	18.81	1.11	5240.68
18.000	1.001	2.0	16.4	18.51	1.09	5240.68
18.100	1.001	2.0	16.2	18.41	1.08	5240.67
18.200	1.001	2.0	16.1	18.21	1.06	5240.67
18.300	1.001	2.0	16.0	18.11	1.05	5240.66
18.400	1.001	2.0	15.9	18.01	1.04	5240.66
18.500	1.001	2.0	15.8	17.91	1.04	5240.66
18.600	1.001	2.0	15.8	17.81	1.03	5240.65
18.700	1.001	2.0	15.7	17.81	1.02	5240.65
18.800	1.001	2.0	15.7	17.71	1.02	5240.65
18.900	1.001	2.0	15.6	17.71	1.02	5240.65
19.000	1.001	2.0	15.6	17.61	1.01	5240.65
19.100	1.001	2.0	15.6	17.61	1.01	5240.65
19.200	1.001	2.0	15.6	17.61	1.01	5240.65
19.300	1.001	2.0	15.5	17.51	1.01	5240.65
19.400	1.001	2.0	15.5	17.51	1.01	5240.64
19.500	1.001	2.0	15.5	17.51	1.01	5240.64
19.600	1.001	2.0	15.5	17.51	1.00	5240.64
19.700	1.001	2.0	15.5	17.51	1.00	5240.64
19.800	1.001	2.0	15.5	17.51	1.00	5240.64
19.900	1.001	2.0	15.5	17.51	1.00	5240.64
20.000	1.001	2.0	15.5	17.51	1.00	5240.64

Pond File: C:\POND2\ROSE1-5.PND

Inflow Hydrograph: C:\POND2\ROSE1-5I.HYD

Outflow Hydrograph: C:\POND2\ROSE1-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
20.100	1.00	2.0	15.5	17.5	1.00	5240.64
20.200	1.00	2.0	15.5	17.5	1.00	5240.64
20.300	1.00	2.0	15.5	17.5	1.00	5240.64
20.400	1.00	2.0	15.5	17.5	1.00	5240.64
20.500	1.00	2.0	15.5	17.5	1.00	5240.64
20.600	1.00	2.0	15.5	17.5	1.00	5240.64
20.700	1.00	2.0	15.5	17.5	1.00	5240.64
20.800	1.00	2.0	15.5	17.5	1.00	5240.64
20.900	1.00	2.0	15.5	17.5	1.00	5240.64
21.000	1.00	2.0	15.5	17.5	1.00	5240.64
21.100	1.00	2.0	15.5	17.5	1.00	5240.64
21.200	1.00	2.0	15.5	17.5	1.00	5240.64
21.300	1.00	2.0	15.5	17.5	1.00	5240.64
21.400	1.00	2.0	15.5	17.5	1.00	5240.64
21.500	1.00	2.0	15.5	17.5	1.00	5240.64
21.600	1.00	2.0	15.5	17.5	1.00	5240.64
21.700	1.00	2.0	15.5	17.5	1.00	5240.64
21.800	1.00	2.0	15.5	17.5	1.00	5240.64
21.900	1.00	2.0	15.5	17.5	1.00	5240.64
22.000	1.00	2.0	15.5	17.5	1.00	5240.64
22.100	1.00	2.0	15.5	17.5	1.00	5240.64
22.200	1.00	2.0	15.5	17.5	1.00	5240.64
22.300	1.00	2.0	15.5	17.5	1.00	5240.64
22.400	1.00	2.0	15.5	17.5	1.00	5240.64
22.500	1.00	2.0	15.5	17.5	1.00	5240.64
22.600	1.00	2.0	15.5	17.5	1.00	5240.64
22.700	1.00	2.0	15.5	17.5	1.00	5240.64
22.800	1.00	2.0	15.5	17.5	1.00	5240.64
22.900	1.00	2.0	15.5	17.5	1.00	5240.64
23.000	1.00	2.0	15.5	17.5	1.00	5240.64
23.100	1.00	2.0	15.5	17.5	1.00	5240.64
23.200	1.00	2.0	15.5	17.5	1.00	5240.64
23.300	1.00	2.0	15.5	17.5	1.00	5240.64
23.400	1.00	2.0	15.5	17.5	1.00	5240.64
23.500	1.00	2.0	15.5	17.5	1.00	5240.64
23.600	1.00	2.0	15.5	17.5	1.00	5240.64
23.700	1.00	2.0	15.5	17.5	1.00	5240.64
23.800	1.00	2.0	15.5	17.5	1.00	5240.64
23.900	1.00	2.0	15.5	17.5	1.00	5240.64
24.000	0.00	1.0	14.6	16.5	0.91	5240.61
24.100	0.00	0.0	13.1	14.6	0.76	5240.56
24.200	0.00	0.0	11.9	13.1	0.63	5240.51
24.300	0.00	0.0	10.7	11.9	0.56	5240.46
24.400	0.00	0.0	9.7	10.7	0.50	5240.42
24.500	0.00	0.0	8.6	9.7	0.46	5240.38
24.600	0.00	0.0	8.0	8.8	0.41	5240.35

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Pond File: C:\POND2\ROSE1-5.PND
Inflow Hydrograph: C:\POND2\ROSE1-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE1-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
24.700	0.001	0.0	7.2	8.0	0.38	5240.31
24.800	0.001	0.0	6.6	7.2	0.34	5240.28
24.900	0.001	0.0	5.9	6.6	0.31	5240.26
25.000	0.001	0.0	5.4	5.9	0.28	5240.23
25.100	0.001	0.0	4.9	5.4	0.25	5240.21
25.200	0.001	0.0	4.4	4.9	0.23	5240.19
25.300	0.001	0.0	4.0	4.4	0.21	5240.17
25.400	0.001	0.0	3.6	4.0	0.19	5240.16
25.500	0.001	0.0	3.3	3.6	0.17	5240.14
25.600	0.001	0.0	3.0	3.3	0.15	5240.13
25.700	0.001	0.0	2.7	3.0	0.14	5240.12
25.800	0.001	0.0	2.4	2.7	0.13	5240.11
25.900	0.001	0.0	2.2	2.4	0.11	5240.10

SUMMARY OF ROUTING COMPUTATIONS

Pond File: C:\POND2\ROSE1-5.PND
Inflow Hydrograph: C:\POND2\ROSE1-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE1-5O.HYD

Starting Pond W.S. Elevation = 5240.00 ft

* * * * * Summary of Peak Outflow and Peak Elevation * * * * *

Peak Inflow = 33.00 cfs
Peak Outflow = 7.44 cfs
Peak Elevation = 5244.37 ft

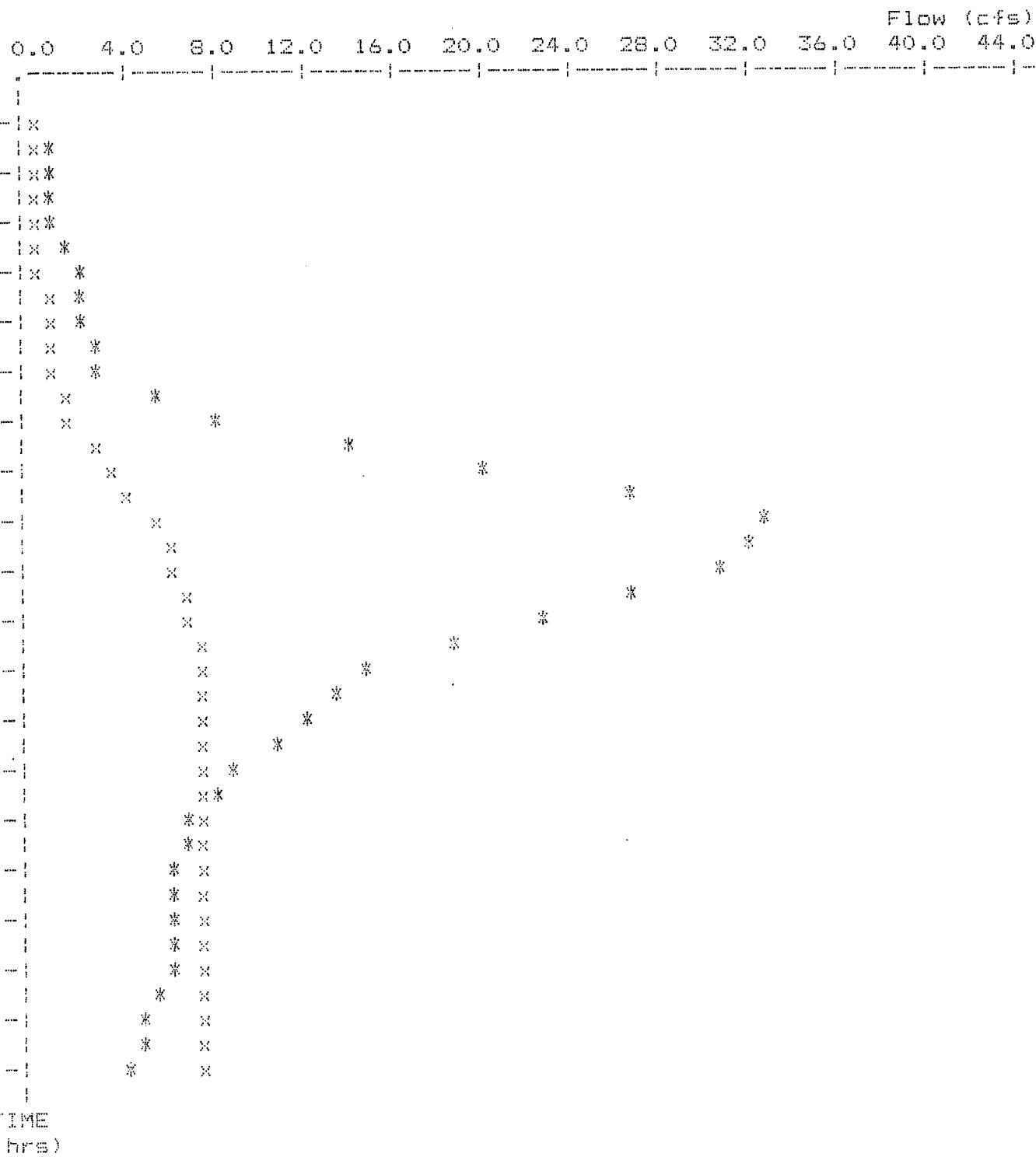
* * * * * Summary of Approximate Peak Storage * * * * *

Initial Storage = 0.00 ac-ft
 Peak Storage From Storm = 0.94 ac-ft
 Total Storage in Pond = 0.94 ac-ft

Pond File: C:\POND2\ROSE1-5.PND
 Inflow Hydrograph: C:\POND2\ROSE1-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE1-5O.HYD

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Peak Inflow = 33.00 cfs
 Peak Outflow = 7.44 cfs
 Peak Elevation = 5244.37 ft



* File: C:\POND2\ROSE1-5I.HYD Qmax = 33.0 cfs
 x File: C:\POND2\ROSE1-5O.HYD Qmax = 7.4 cfs

ROSEWOOD WASH DRAINAGE BASIN

POND #1

100 YEAR STORM

CODEGA & FRICKE, INC 8-8-90 GMP 1016.10

Inflow Hydrograph: C:\POND2\ROSE1-CI.HYD
Rating Table file: C:\POND2\ROSE1-C.RND

-----INITIAL CONDITIONS-----

Elevation = 5240.00 ft

Outflow = 0.00 cfs

Storage = 0.00 ac-ft

GIVEN POND DATA

INTERMEDIATE ROUTING COMPUTATIONS

EL ELEVATION	OUTFLOW	STORAGE	2S/t	2S/t + Q
(ft)	(cfs)	(ac-ft)	(cfs)	(cfs)
5240.00	0.0	0.000	0.0	0.0
5240.50	0.6	0.050	12.2	12.8
5241.00	2.0	0.112	27.2	29.2
5241.50	3.4	0.186	45.4	48.8
5242.00	4.4	0.277	67.1	71.5
5242.50	5.2	0.382	92.6	97.8
5243.00	5.9	0.505	122.1	128.0
5243.50	6.5	0.645	156.0	162.5
5244.00	7.0	0.804	194.7	201.7
5244.50	7.6	0.985	238.3	245.9
5245.00	8.0	1.187	287.2	295.2
5245.50	8.5	1.408	340.8	349.3
5246.00	8.9	1.647	398.5	407.4
5246.50	9.3	1.902	460.3	469.6
5247.00	9.7	2.176	526.5	536.2
5247.50	11.1	2.467	597.1	608.2
5248.00	13.7	2.778	672.3	686.0
5248.50	17.5	3.109	752.3	769.8
5249.00	22.1	3.459	837.2	859.3
5249.50	25.5	3.831	927.1	952.6
5250.00	29.5	4.224	1022.3	1050.8

Time increment (t) = 0.100 hrs.

Pond File: C:\POND2\ROSE1-C.PND
 Inflow Hydrograph: C:\POND2\ROSE1-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE1-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
11.000	3.001	---	0.0	0.0	0.00	5240.00
11.100	3.001	6.0	5.4	6.0	0.28	5240.24
11.200	4.001	7.0	11.3	12.4	0.58	5240.49
11.300	4.001	8.0	17.0	19.3	1.15	5240.70
11.400	4.001	8.0	21.7	25.0	1.64	5240.87
11.500	5.001	9.0	26.5	30.7	2.11	5241.04
11.600	5.001	10.0	31.4	36.5	2.52	5241.19
11.700	9.001	14.0	39.1	45.4	3.16	5241.41
11.800	14.001	23.0	54.1	62.1	3.99	5241.79
11.900	18.001	32.0	76.4	86.1	4.85	5242.28
12.000	34.001	52.0	116.6	128.4	5.91	5243.01
12.100	65.001	99.0	201.3	215.6	7.19	5244.16
12.200	91.001	156.0	340.1	357.3	8.55	5245.57
12.300	84.001	175.0	496.0	515.1	9.57	5246.84
12.400	56.001	140.0	611.9	636.0	12.03	5247.68
12.500	35.001	91.0	674.0	702.9	14.47	5248.10
12.600	24.001	59.0	701.3	733.0	15.83	5248.28
12.700	16.001	42.0	710.7	743.3	16.30	5248.34
12.800	14.001	32.0	710.2	742.7	16.27	5248.34
12.900	12.001	26.0	704.2	736.2	15.98	5248.30
13.000	11.001	23.0	696.1	727.2	15.57	5248.25
13.100	9.001	20.0	686.0	716.1	15.06	5248.18
13.200	8.001	17.0	674.0	703.0	14.47	5248.10
13.300	8.001	16.0	662.3	690.0	13.88	5248.02
13.400	7.001	15.0	650.5	677.3	13.41	5247.94
13.500	7.001	14.0	638.5	664.5	12.98	5247.86
13.600	7.001	14.0	627.3	652.5	12.58	5247.78
13.700	6.001	13.0	616.0	640.3	12.17	5247.71
13.800	6.001	12.0	604.5	628.0	11.76	5247.63
13.900	6.001	12.0	593.7	616.5	11.38	5247.55
14.000	6.001	12.0	583.6	605.7	11.05	5247.48
14.100	6.001	12.0	573.9	595.6	10.86	5247.41
14.200	5.001	11.0	563.6	584.9	10.65	5247.34
14.300	5.001	10.0	552.8	573.6	10.43	5247.26
14.400	5.001	10.0	542.3	562.6	10.22	5247.18
14.500	5.001	10.0	532.3	552.3	10.01	5247.11
14.600	5.001	10.0	522.7	542.3	9.82	5247.04
14.700	5.001	10.0	513.3	532.7	9.68	5246.97
14.800	4.001	9.0	503.1	522.3	9.62	5246.90
14.900	4.001	8.0	492.0	511.1	9.55	5246.81
15.000	4.001	8.0	481.0	500.0	9.48	5246.73
15.100	4.001	8.0	470.2	489.0	9.42	5246.65
15.200	4.001	8.0	459.5	478.2	9.35	5246.56
15.300	4.001	8.0	448.9	467.5	9.29	5246.48
15.400	4.001	8.0	438.5	456.9	9.22	5246.40

Pond File: C:\POND2\ROSE1-C.PND
Inflow Hydrograph: C:\POND2\ROSE1-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE1-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
15.500	4.001	8.0	428.2	446.51	9.15	5246.31
15.600	4.001	8.0	418.0	436.21	9.08	5246.23
15.700	4.001	8.0	407.9	426.01	9.02	5246.15
15.800	4.001	8.0	398.0	415.71	8.95	5246.07
15.900	4.001	8.0	388.3	406.01	8.89	5245.99
16.000	4.001	8.0	378.6	396.31	8.82	5245.90
16.100	4.001	8.0	369.1	386.61	8.76	5245.82
16.200	3.001	7.0	358.7	376.11	8.68	5245.73
16.300	3.001	6.0	347.5	364.71	8.61	5245.63
16.400	2.001	5.0	335.5	352.51	8.52	5245.53
16.500	2.001	4.0	322.6	339.51	8.41	5245.41
16.600	2.001	4.0	310.1	326.61	8.29	5245.29
16.700	2.001	4.0	297.7	314.11	8.17	5245.17
16.800	2.001	4.0	285.6	301.71	8.06	5245.06
16.900	2.001	4.0	273.7	289.61	7.95	5244.94
17.000	2.001	4.0	262.0	277.71	7.86	5244.82
17.100	2.001	4.0	250.4	266.01	7.76	5244.70
17.200	2.001	4.0	239.1	254.41	7.67	5244.59
17.300	2.001	4.0	228.0	243.11	7.56	5244.47
17.400	2.001	4.0	217.2	232.01	7.41	5244.34
17.500	2.001	4.0	206.6	221.21	7.26	5244.22
17.600	2.001	4.0	196.4	210.61	7.12	5244.10
17.700	2.001	4.0	186.4	200.41	6.98	5243.98
17.800	2.001	4.0	176.7	190.41	6.86	5243.86
17.900	2.001	4.0	167.2	180.71	6.73	5243.73
18.000	2.001	4.0	158.0	171.21	6.61	5243.61
18.100	2.001	4.0	149.0	162.01	6.49	5243.49
18.200	2.001	4.0	140.4	153.01	6.33	5243.36
18.300	2.001	4.0	132.0	144.41	6.18	5243.24
18.400	2.001	4.0	123.9	136.01	6.04	5243.12
18.500	2.001	4.0	116.1	127.91	5.90	5243.00
18.600	2.001	4.0	108.7	120.11	5.72	5242.87
18.700	2.001	4.0	101.6	112.71	5.55	5242.75
18.800	2.001	4.0	94.8	105.61	5.38	5242.63
18.900	2.001	4.0	88.4	98.81	5.23	5242.52
19.000	2.001	4.0	82.3	92.41	5.04	5242.40
19.100	2.001	4.0	76.6	86.31	4.85	5242.28
19.200	2.001	4.0	71.3	80.61	4.68	5242.17
19.300	2.001	4.0	66.2	75.31	4.51	5242.07
19.400	2.001	4.0	61.5	70.21	4.34	5241.97
19.500	2.001	4.0	57.3	65.51	4.14	5241.87
19.600	1.001	3.0	52.5	60.31	3.90	5241.75
19.700	1.001	2.0	47.2	54.51	3.65	5241.62
19.800	1.001	2.0	42.3	49.21	3.42	5241.51
19.900	1.001	2.0	38.2	44.31	3.08	5241.39
20.000	1.001	2.0	34.6	40.21	2.73	5241.28

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Pond File: C:\POND2\ROSE1-C.PND
Inflow Hydrograph: C:\POND2\ROSE1-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE1-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
20.100	1.001	2.0	31.5	36.6	2.53	5241.19
20.200	1.001	2.0	28.9	33.5	2.31	5241.11
20.300	1.001	2.0	26.7	30.9	2.12	5241.04
20.400	1.001	2.0	24.8	28.7	1.96	5240.98
20.500	1.001	2.0	23.2	26.8	1.79	5240.93
20.600	1.001	2.0	21.9	25.2	1.66	5240.88
20.700	1.001	2.0	20.8	23.9	1.55	5240.84
20.800	1.001	2.0	19.9	22.8	1.45	5240.80
20.900	1.001	2.0	19.1	21.9	1.38	5240.78
21.000	1.001	2.0	18.5	21.1	1.31	5240.75
21.100	1.001	2.0	18.0	20.5	1.24	5240.74
21.200	1.001	2.0	17.5	20.0	1.21	5240.72
21.300	1.001	2.0	17.2	19.5	1.18	5240.71
21.400	1.001	2.0	16.9	19.2	1.15	5240.70
21.500	1.001	2.0	16.7	18.9	1.12	5240.69
21.600	1.001	2.0	16.5	18.7	1.10	5240.68
21.700	1.001	2.0	16.3	18.5	1.08	5240.67
21.800	1.001	2.0	16.1	18.3	1.07	5240.67
21.900	1.001	2.0	16.0	18.1	1.06	5240.66
22.000	1.001	2.0	15.9	18.0	1.05	5240.66
22.100	1.001	2.0	15.9	17.9	1.04	5240.66
22.200	1.001	2.0	15.8	17.9	1.03	5240.65
22.300	1.001	2.0	15.7	17.8	1.03	5240.65
22.400	1.001	2.0	15.7	17.7	1.02	5240.65
22.500	1.001	2.0	15.6	17.7	1.02	5240.65
22.600	1.001	2.0	15.6	17.6	1.02	5240.65
22.700	1.001	2.0	15.6	17.6	1.01	5240.65
22.800	1.001	2.0	15.6	17.6	1.01	5240.65
22.900	1.001	2.0	15.5	17.6	1.01	5240.65
23.000	1.001	2.0	15.5	17.5	1.01	5240.65
23.100	1.001	2.0	15.5	17.5	1.01	5240.65
23.200	1.001	2.0	15.5	17.5	1.01	5240.64
23.300	1.001	2.0	15.5	17.5	1.00	5240.64
23.400	1.001	2.0	15.5	17.5	1.00	5240.64
23.500	1.001	2.0	15.5	17.5	1.00	5240.64
23.600	1.001	2.0	15.5	17.5	1.00	5240.64
23.700	1.001	2.0	15.5	17.5	1.00	5240.64
23.800	1.001	2.0	15.5	17.5	1.00	5240.64
23.900	1.001	2.0	15.5	17.5	1.00	5240.64
24.000	0.001	1.0	14.6	16.5	0.92	5240.61
24.100	0.001	0.0	13.1	14.6	0.76	5240.56
24.200	0.001	0.0	11.9	13.1	0.63	5240.51
24.300	0.001	0.0	10.7	11.9	0.56	5240.46
24.400	0.001	0.0	9.7	10.7	0.51	5240.42
24.500	0.001	0.0	8.6	9.7	0.46	5240.38
24.600	0.001	0.0	8.0	8.8	0.41	5240.35

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Pond File: C:\POND2\ROSE1-C.PND
Inflow Hydrograph: C:\POND2\ROSE1-DI.HYD
Outflow Hydrograph: C:\POND2\ROSE1-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
24.700	0.001	0.0	7.2	8.01	0.38	5240.31
24.800	0.001	0.0	6.6	7.21	0.34	5240.28
24.900	0.001	0.0	5.9	6.61	0.31	5240.26
25.000	0.001	0.0	5.4	5.91	0.28	5240.23
25.100	0.001	0.0	4.9	5.41	0.25	5240.21
25.200	0.001	0.0	4.4	4.91	0.23	5240.19
25.300	0.001	0.0	4.0	4.41	0.21	5240.17
25.400	0.001	0.0	3.6	4.01	0.19	5240.16
25.500	0.001	0.0	3.3	3.61	0.17	5240.14
25.600	0.001	0.0	3.0	3.31	0.15	5240.13
25.700	0.001	0.0	2.7	3.01	0.14	5240.12
25.800	0.001	0.0	2.4	2.71	0.13	5240.11
25.900	0.001	0.0	2.2	2.41	0.11	5240.10

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* * * * * SUMMARY OF ROUTING COMPUTATIONS * * * * *

Pond File: C:\POND2\ROSE1-C.PND
Inflow Hydrograph: C:\POND2\ROSE1-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE1-CO.HYD

Starting Pond W.S. Elevation = 5240.00 ft

* * * * * Summary of Peak Outflow and Peak Elevation *

Peak Inflow = 91.00 cfs
Peak Outflow = 16.30 cfs
Peak Elevation = 5248.34 ft

* * * * * Summary of Approximate Peak Storage *

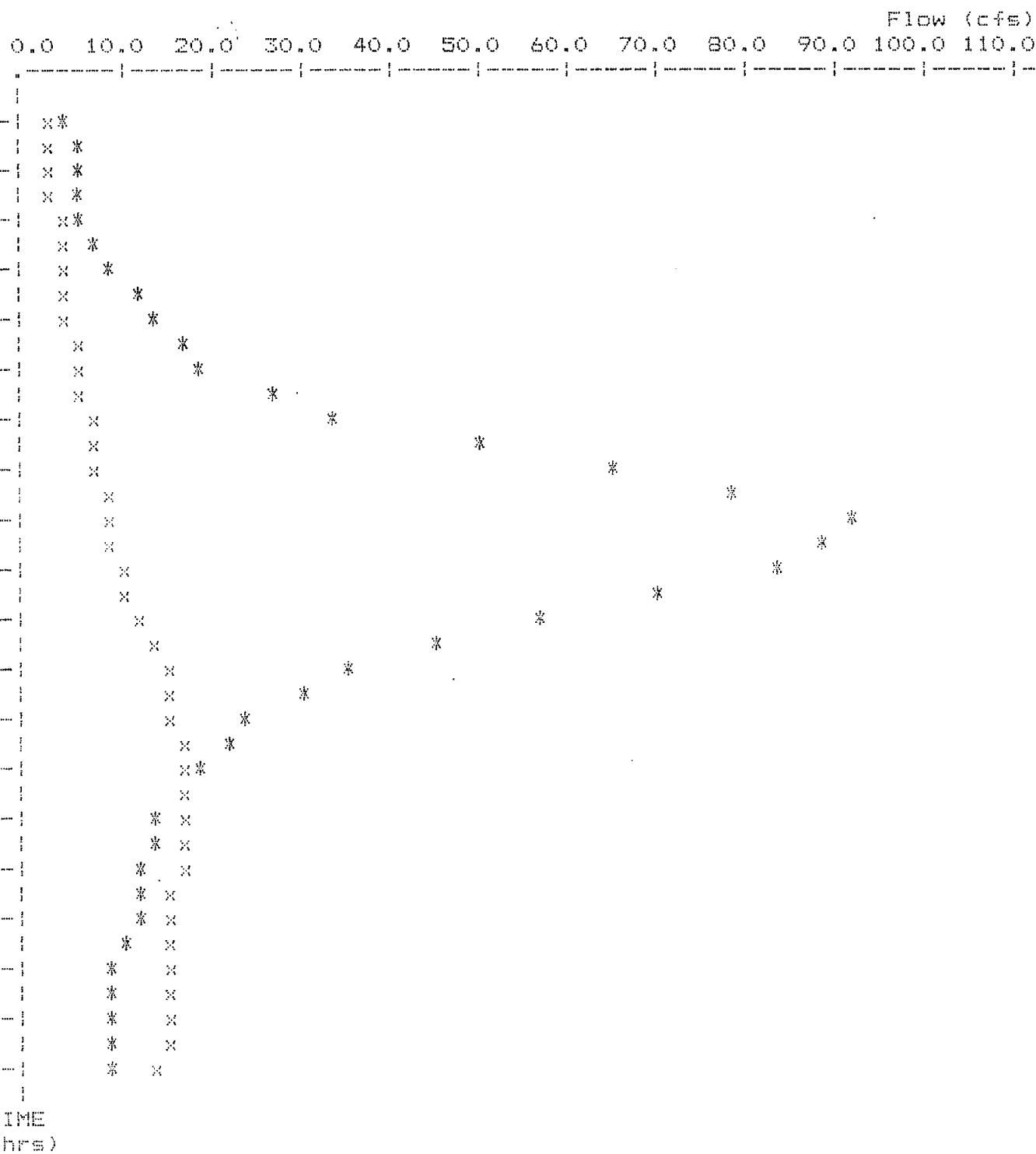
Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	3.00 ac-ft
-----		-----
Total Storage in Pond	=	3.00 ac-ft

Warning: Inflow hydrograph truncated on left side.

Pond File: C:\POND2\ROSE1-C.PND
 Inflow Hydrograph: C:\POND2\ROSE1-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE1-CO.HYD

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Peak Inflow = 91.00 cfs
 Peak Outflow = 16.30 cfs
 Peak Elevation = 5248.34 ft



* File: C:\POND2\ROSE1-CI.HYD Qmax = 91.0 cfs
 x File: C:\POND2\ROSE1-CO.HYD Qmax = 16.3 cfs

POND-2 Version: 5.13 S/N: 1220510336
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ROSEWOOD WASH DRAINAGE BASIN
POND #2 SECOND POND IN A SERIES (NEAR MIDDLE OF PROJECT)
5 YEAR STORM
CODEGA & FRICKE, INC 8-5-90 - GMP 1016.10

Inflow Hydrograph: C:\POND2\ROSE2-5I.HYD
Rating Table file: C:\POND2\ROSE2-5.PND

-----INITIAL CONDITIONS-----

Elevation = 5172.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

GIVEN POND DATA

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
5172.00	0.0	0.000	0.0	0.0
5172.50	0.6	0.117	28.3	28.9
5173.00	2.0	0.245	59.2	61.2
5173.50	3.4	0.385	93.1	96.5
5174.00	4.4	0.537	129.9	134.3
5174.50	5.2	0.701	169.8	175.0
5175.00	5.9	0.880	212.9	218.8
5175.50	6.5	1.072	259.3	265.8
5176.00	7.0	1.275	309.2	316.2
5176.50	7.6	1.499	362.8	370.4
5177.00	8.0	1.735	420.0	428.0
5177.50	9.6	1.988	481.1	490.7
5178.00	12.9	2.257	546.1	559.0
5178.50	17.5	2.542	615.2	632.7
5179.00	23.5	2.845	688.6	712.1
5179.50	30.3	3.167	766.3	796.6
5180.00	36.2	3.506	848.5	884.7

Time increment (t) = 0.100 hrs.

Pond File: C:\POND2\ROSE2-5.PND
 Inflow Hydrograph: C:\POND2\ROSE2-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE2-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
10.000	0.001	-----	0.0	0.0	0.00	5172.00
10.100	0.001	0.0	0.0	0.0	0.00	5172.00
10.200	0.001	0.0	0.0	0.0	0.00	5172.00
10.300	0.001	0.0	0.0	0.0	0.00	5172.00
10.400	0.001	0.0	0.0	0.0	0.00	5172.00
10.500	0.001	0.0	0.0	0.0	0.00	5172.00
10.600	0.001	0.0	0.0	0.0	0.00	5172.00
10.700	0.001	0.0	0.0	0.0	0.00	5172.00
10.800	0.001	0.0	0.0	0.0	0.00	5172.00
10.900	0.001	0.0	0.0	0.0	0.00	5172.00
11.000	1.001	1.0	1.0	1.0	0.02	5172.02
11.100	1.001	2.0	2.8	3.0	0.06	5172.05
11.200	1.001	2.0	4.6	4.8	0.10	5172.08
11.300	1.001	2.0	6.4	6.6	0.14	5172.11
11.400	1.001	2.0	8.0	8.4	0.17	5172.14
11.500	2.051	3.1	10.6	11.1	0.23	5172.19
11.600	2.141	4.2	14.2	14.8	0.31	5172.26
11.700	3.261	5.4	18.8	19.6	0.41	5172.34
11.800	4.431	7.7	25.4	26.5	0.55	5172.46
11.900	5.641	10.1	33.7	35.4	0.68	5172.60
12.000	11.471	17.1	47.7	50.8	1.55	5172.84
12.100	22.341	33.8	75.9	81.5	2.80	5173.29
12.200	34.101	56.4	123.6	132.3	4.35	5173.97
12.300	35.251	69.3	182.0	193.0	5.49	5174.71
12.400	26.851	62.1	231.6	244.1	6.22	5175.27
12.500	19.171	46.0	264.4	277.7	6.62	5175.62
12.600	15.341	34.5	285.3	298.9	6.83	5175.83
12.700	13.421	26.8	300.1	314.0	6.98	5175.98
12.800	12.441	26.9	311.7	325.9	7.11	5176.09
12.900	11.411	23.9	321.2	335.6	7.21	5176.18
13.000	10.381	21.8	328.4	342.9	7.30	5176.25
13.100	10.341	20.7	334.3	349.1	7.36	5176.30
13.200	10.291	20.6	340.1	355.0	7.43	5176.36
13.300	9.211	19.5	344.7	359.6	7.48	5176.40
13.400	9.131	18.3	348.0	363.0	7.52	5176.43
13.500	9.041	18.2	351.0	366.1	7.55	5176.46
13.600	8.961	18.0	353.8	369.0	7.59	5176.49
13.700	8.891	17.9	356.5	371.7	7.61	5176.51
13.800	8.811	17.7	358.9	374.2	7.63	5176.53
13.900	8.741	17.6	361.2	376.5	7.64	5176.55
14.000	8.671	17.4	363.3	378.6	7.66	5176.57
14.100	8.591	17.3	365.2	380.5	7.67	5176.59
14.200	8.501	17.1	366.9	382.3	7.68	5176.60
14.300	8.361	16.9	368.4	383.8	7.69	5176.62
14.400	8.211	16.6	369.6	385.0	7.70	5176.63

Pond File: C:\POND2\ROSE2-5.PND
 Inflow Hydrograph: C:\POND2\ROSE2-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE2-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
14.500	7.061	15.3	369.4	384.8	7.70	5176.63
14.600	6.921	14.0	368.0	383.4	7.69	5176.61
14.700	6.741	13.7	366.3	381.7	7.68	5176.60
14.800	6.571	13.3	364.3	379.6	7.66	5176.58
14.900	6.401	13.0	362.0	377.3	7.65	5176.56
15.000	6.251	12.7	359.4	374.6	7.63	5176.54
15.100	6.061	12.3	356.5	371.7	7.61	5176.51
15.200	5.881	11.9	353.3	368.4	7.58	5176.48
15.300	5.701	11.6	349.8	364.8	7.54	5176.45
15.400	5.541	11.2	346.0	361.0	7.50	5176.41
15.500	5.381	10.9	342.0	356.9	7.45	5176.38
15.600	5.171	10.6	337.8	352.6	7.40	5176.34
15.700	4.981	10.2	333.2	347.9	7.35	5176.29
15.800	4.801	9.8	328.4	343.0	7.30	5176.25
15.900	4.641	9.4	323.4	337.6	7.24	5176.20
16.000	4.501	9.1	318.1	332.5	7.18	5176.15
16.100	4.341	8.8	312.7	327.0	7.12	5176.10
16.200	4.151	8.5	307.1	321.2	7.06	5176.05
16.300	3.921	8.1	301.2	315.2	6.99	5175.99
16.400	3.641	7.6	294.9	308.8	6.93	5175.93
16.500	3.411	7.1	288.3	302.0	6.86	5175.86
16.600	3.211	6.6	281.3	294.9	6.79	5175.79
16.700	3.031	6.2	274.1	287.5	6.72	5175.72
16.800	2.861	5.9	266.7	280.0	6.64	5175.64
16.900	2.721	5.6	259.2	272.3	6.56	5175.56
17.000	2.601	5.3	251.5	264.5	6.48	5175.49
17.100	2.491	5.1	243.8	256.6	6.38	5175.40
17.200	2.411	4.9	236.2	248.7	6.28	5175.32
17.300	2.341	4.8	228.6	240.9	6.18	5175.24
17.400	2.281	4.6	221.0	233.2	6.08	5175.15
17.500	2.231	4.5	213.6	225.5	5.99	5175.07
17.600	2.191	4.4	206.2	218.0	5.89	5174.99
17.700	2.161	4.4	199.0	210.6	5.77	5174.91
17.800	2.131	4.3	192.0	203.3	5.65	5174.82
17.900	2.111	4.2	185.2	196.2	5.54	5174.74
18.000	2.091	4.2	178.5	189.4	5.43	5174.66
18.100	2.081	4.2	172.0	182.7	5.32	5174.59
18.200	2.061	4.1	165.7	176.2	5.22	5174.51
18.300	2.051	4.1	159.6	169.8	5.10	5174.44
18.400	2.041	4.1	153.8	163.7	4.98	5174.36
18.500	2.041	4.1	148.1	157.8	4.86	5174.29
18.600	2.031	4.1	142.7	152.2	4.75	5174.22
18.700	2.021	4.1	137.4	146.7	4.65	5174.15
18.800	2.021	4.0	132.4	141.5	4.54	5174.09
18.900	2.021	4.0	127.6	136.4	4.44	5174.03
19.000	2.011	4.0	122.9	131.6	4.33	5173.96

Pond File: C:\POND2\ROSE2-5.PND
 Inflow Hydrograph: C:\POND2\ROSE2-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE2-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
19.100	2.001	4.0	118.5	126.9	4.21	5173.90
19.200	2.001	4.0	114.4	122.6	4.09	5173.85
19.300	2.001	4.0	110.4	118.4	3.98	5173.79
19.400	2.001	4.0	106.7	114.5	3.88	5173.74
19.500	2.001	4.0	103.2	110.7	3.78	5173.69
19.600	2.001	4.0	99.8	107.2	3.68	5173.64
19.700	2.001	4.0	96.6	103.8	3.59	5173.60
19.800	2.001	4.0	93.6	100.6	3.51	5173.55
19.900	2.001	4.0	90.7	97.6	3.43	5173.51
20.000	2.001	4.0	88.1	94.7	3.33	5173.48
20.100	2.001	4.0	85.6	92.1	3.23	5173.44
20.200	2.001	4.0	83.4	89.6	3.13	5173.40
20.300	2.001	4.0	81.3	87.4	3.04	5173.37
20.400	2.001	4.0	79.4	85.3	2.96	5173.34
20.500	2.001	4.0	77.6	83.4	2.88	5173.31
20.600	2.001	4.0	76.0	81.6	2.81	5173.29
20.700	2.001	4.0	74.5	80.0	2.75	5173.27
20.800	2.001	4.0	73.1	78.5	2.69	5173.25
20.900	2.001	4.0	71.9	77.1	2.63	5173.23
21.000	2.001	4.0	70.7	75.9	2.58	5173.21
21.100	2.001	4.0	69.6	74.7	2.54	5173.19
21.200	2.001	4.0	68.7	73.6	2.49	5173.18
21.300	2.001	4.0	67.8	72.7	2.45	5173.16
21.400	2.001	4.0	66.9	71.8	2.42	5173.15
21.500	2.001	4.0	66.1	70.9	2.38	5173.14
21.600	2.001	4.0	65.4	70.1	2.35	5173.13
21.700	2.001	4.0	64.8	69.4	2.33	5173.12
21.800	2.001	4.0	64.2	68.8	2.30	5173.11
21.900	2.001	4.0	63.6	68.2	2.28	5173.10
22.000	2.001	4.0	63.1	67.6	2.25	5173.09
22.100	2.001	4.0	62.7	67.1	2.23	5173.08
22.200	2.001	4.0	62.2	66.7	2.22	5173.08
22.300	2.001	4.0	61.8	66.2	2.20	5173.07
22.400	2.001	4.0	61.5	65.8	2.18	5173.07
22.500	2.001	4.0	61.1	65.5	2.17	5173.06
22.600	2.001	4.0	60.8	65.1	2.15	5173.06
22.700	2.001	4.0	60.5	64.8	2.14	5173.05
22.800	2.001	4.0	60.3	64.5	2.13	5173.05
22.900	2.001	4.0	60.0	64.3	2.12	5173.04
23.000	2.001	4.0	59.8	64.0	2.11	5173.04
23.100	2.001	4.0	59.6	63.8	2.10	5173.04
23.200	2.001	4.0	59.4	63.6	2.09	5173.03
23.300	2.001	4.0	59.2	63.4	2.09	5173.03
23.400	2.001	4.0	59.1	63.2	2.08	5173.03
23.500	2.001	4.0	58.9	63.1	2.07	5173.03
23.600	2.001	4.0	58.8	62.9	2.07	5173.02

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Pond File: C:\POND2\ROSE2-5.PND
Inflow Hydrograph: C:\POND2\ROSE2-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE2-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
23.700	2.00	4.0	58.7	62.8	2.06	5173.02
23.800	2.00	4.0	58.6	62.7	2.06	5173.02
23.900	2.00	4.0	58.5	62.6	2.05	5173.02
24.000	0.91	2.9	57.4	61.4	2.01	5173.00
24.100	0.76	1.7	55.2	59.0	1.90	5172.97
24.200	0.63	1.4	53.0	56.6	1.80	5172.93
24.300	0.56	1.2	50.8	54.2	1.70	5172.89
24.400	0.50	1.1	48.7	51.9	1.59	5172.86
24.500	0.46	1.0	46.6	49.6	1.50	5172.82
24.600	0.41	0.9	44.7	47.5	1.41	5172.79
24.700	0.38	0.8	42.9	45.5	1.32	5172.76
24.800	0.34	0.7	41.1	43.6	1.24	5172.73
24.900	0.31	0.7	39.4	41.8	1.16	5172.70
25.000	0.28	0.6	37.9	40.0	1.08	5172.67
25.100	0.25	0.5	36.4	38.4	1.01	5172.65
25.200	0.23	0.5	35.0	36.8	0.95	5172.62
25.300	0.21	0.4	33.6	35.4	0.88	5172.60
25.400	0.19	0.4	32.4	34.0	0.82	5172.58
25.500	0.17	0.4	31.2	32.7	0.77	5172.56
25.600	0.15	0.3	30.1	31.5	0.72	5172.54
25.700	0.14	0.3	29.1	30.4	0.67	5172.52
25.800	0.13	0.3	28.1	29.3	0.62	5172.51
25.900	0.11	0.2	27.2	28.3	0.59	5172.49
26.000	0.00	0.1	26.1	27.3	0.57	5172.47
26.100	0.00	0.0	25.0	26.1	0.54	5172.45
26.200	0.00	0.0	24.0	25.0	0.52	5172.43
26.300	0.00	0.0	23.0	24.0	0.50	5172.42
26.400	0.00	0.0	22.0	23.0	0.48	5172.40
26.500	0.00	0.0	21.1	22.0	0.46	5172.38
26.600	0.00	0.0	20.3	21.1	0.44	5172.37
26.700	0.00	0.0	19.4	20.3	0.42	5172.35
26.800	0.00	0.0	18.6	19.4	0.40	5172.34
26.900	0.00	0.0	17.8	18.6	0.39	5172.32
27.000	0.00	0.0	17.1	17.8	0.37	5172.31
27.100	0.00	0.0	16.4	17.1	0.36	5172.30
27.200	0.00	0.0	15.7	16.4	0.34	5172.28
27.300	0.00	0.0	15.0	15.7	0.33	5172.27
27.400	0.00	0.0	14.4	15.0	0.31	5172.26
27.500	0.00	0.0	13.8	14.4	0.30	5172.25
27.600	0.00	0.0	13.2	13.8	0.29	5172.24
27.700	0.00	0.0	12.7	13.2	0.28	5172.23
27.800	0.00	0.0	12.2	12.7	0.26	5172.22
27.900	0.00	0.0	11.7	12.2	0.25	5172.21
28.000	0.00	0.0	11.2	11.7	0.24	5172.20
28.100	0.00	0.0	10.7	11.2	0.23	5172.19
28.200	0.00	0.0	10.3	10.7	0.22	5172.19

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Inflow Hydrograph: C:\POND2\ROSE2-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE2-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
28.300	0.001	0.0	9.8	10.3	0.21	5172.18
28.400	0.001	0.0	9.4	9.8	0.20	5172.17
28.500	0.001	0.0	9.0	9.4	0.20	5172.16
28.600	0.001	0.0	8.7	9.0	0.19	5172.16
28.700	0.001	0.0	8.3	8.7	0.18	5172.15
28.800	0.001	0.0	8.0	8.3	0.17	5172.14
28.900	0.001	0.0	7.6	8.0	0.17	5172.14
29.000	0.001	0.0	7.3	7.6	0.16	5172.13
29.100	0.001	0.0	7.0	7.3	0.15	5172.13
29.200	0.001	0.0	6.7	7.0	0.15	5172.12
29.300	0.001	0.0	6.4	6.7	0.14	5172.12
29.400	0.001	0.0	6.2	6.4	0.13	5172.11
29.500	0.001	0.0	5.9	6.2	0.13	5172.11
29.600	0.001	0.0	5.7	5.9	0.12	5172.10
29.700	0.001	0.0	5.4	5.7	0.12	5172.10
29.800	0.001	0.0	5.2	5.4	0.11	5172.09
29.900	0.001	0.0	5.0	5.2	0.11	5172.09
30.000	0.001	0.0	4.8	5.0	0.10	5172.09

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***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: C:\POND2\ROSE2-5.PND
Inflow Hydrograph: C:\POND2\ROSE2-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE2-5O.HYD

Starting Pond W.S. Elevation = 5172.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 35.25 cfs
Peak Outflow = 7.70 cfs
Peak Elevation = 5176.63 ft

***** Summary of Approximate Peak Storage *****

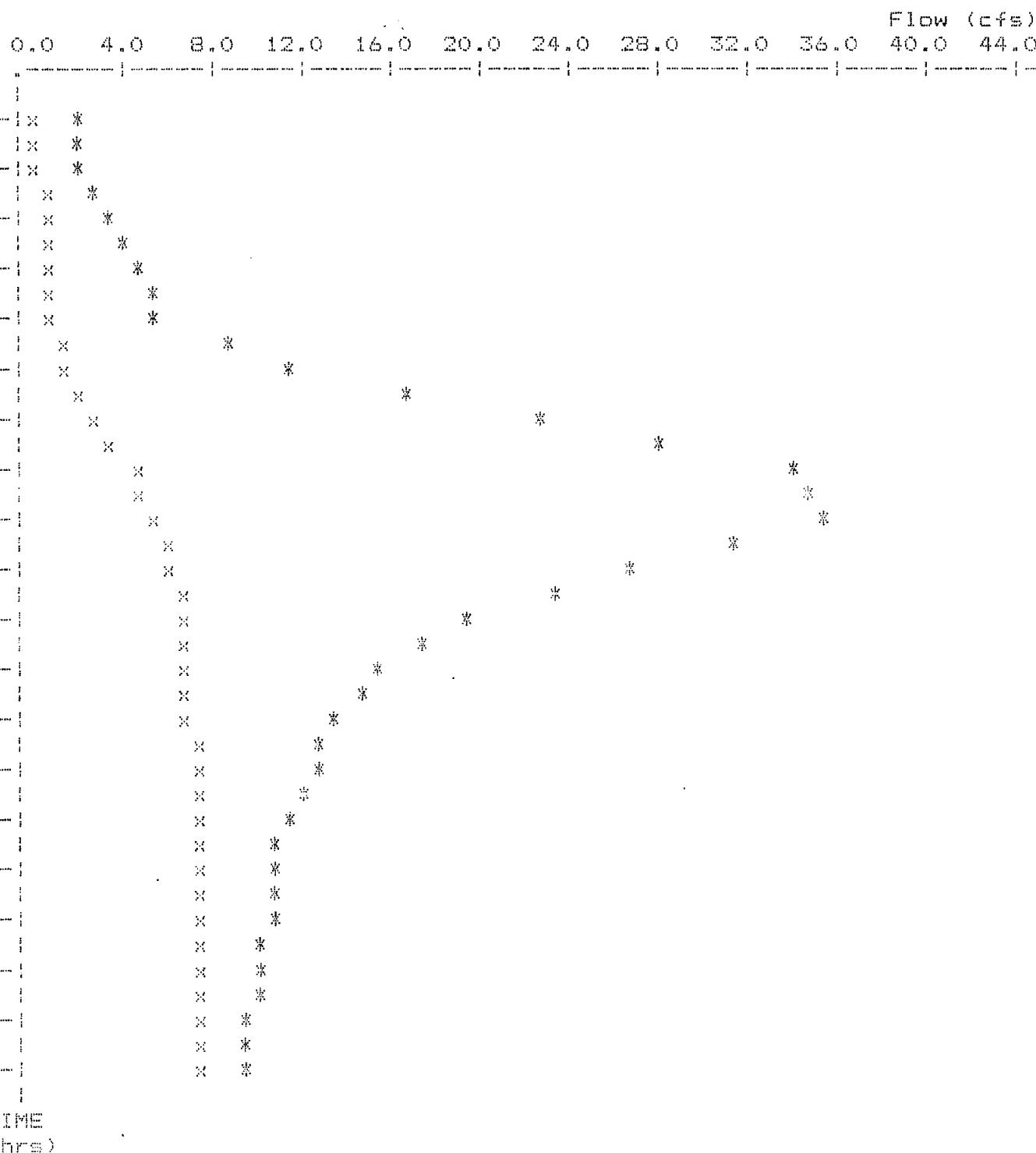
Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	1.56 ac-ft
-----		-----
Total Storage in Pond	=	1.56 ac-ft

Pond File: C:\POND2\ROSE2-5.PND
 Inflow Hydrograph: C:\POND2\ROSE2-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE2-5O.HYD

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Peak Inflow = 35.25 cfs
 Peak Outflow = 7.70 cfs
 Peak Elevation = 5176.63 ft



* File: C:\POND2\ROSE2-5I.HYD Qmax = 35.3 cfs
 x File: C:\POND2\ROSE2-5O.HYD Qmax = 7.7 cfs

ROSEWOOD WASH DRAINAGE BASIN

POND #2 SECOND POND IN A SERIES (NEAR MIDDLE OF PROJECT)

100 YEAR STORM

CODEGA & FRICKE, INC 8-5-90 GMP 1016.10

Inflow Hydrograph: C:\POND2\ROSE2-CI.HYD

Rating Table file: C:\POND2\ROSE2-C.PND

-----INITIAL CONDITIONS-----

Elevation = 5172.00 ft

Outflow = 0.00 cfs

Storage = 0.00 ac-ft

GIVEN POND DATA

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
5172.00	0.0	0.000	0.0	0.0
5172.50	0.6	0.117	28.3	28.9
5173.00	2.0	0.245	59.2	61.2
5173.50	3.4	0.385	93.1	96.5
5174.00	4.4	0.537	129.9	134.3
5174.50	5.2	0.701	169.8	175.0
5175.00	5.9	0.880	212.9	218.8
5175.50	6.5	1.072	259.3	265.8
5176.00	7.0	1.278	309.2	316.2
5176.50	7.6	1.499	362.8	370.4
5177.00	8.0	1.735	420.0	428.0
5177.50	9.6	1.988	481.1	490.7
5178.00	12.9	2.257	546.1	559.0
5178.50	17.5	2.542	615.2	632.7
5179.00	23.5	2.845	689.6	712.1
5179.50	30.3	3.167	766.3	796.6
5180.00	36.2	3.506	843.5	864.7

Time increment (t) = 0.100 hrs.

Pond File: C:\POND2\ROSE2-C.PND
 Inflow Hydrograph: C:\POND2\ROSE2-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE2-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
10.000	0.001	---	0.0	0.01	0.00	5172.00
10.100	0.001	0.0	0.0	0.01	0.00	5172.00
10.200	0.001	0.0	0.0	0.01	0.00	5172.00
10.300	0.001	0.0	0.0	0.01	0.00	5172.00
10.400	0.001	0.0	0.0	0.01	0.00	5172.00
10.500	0.001	0.0	0.0	0.01	0.00	5172.00
10.600	0.001	0.0	0.0	0.01	0.00	5172.00
10.700	0.001	0.0	0.0	0.01	0.00	5172.00
10.800	0.001	0.0	0.0	0.01	0.00	5172.00
10.900	0.001	0.0	0.0	0.01	0.00	5172.00
11.000	2.001	2.0	1.9	2.01	0.04	5172.03
11.100	2.281	4.3	5.9	6.21	0.13	5172.11
11.200	3.581	5.9	11.3	11.81	0.25	5172.20
11.300	4.151	7.7	18.2	19.01	0.40	5172.33
11.400	5.641	9.8	26.9	26.01	0.58	5172.49
11.500	6.111	11.8	36.6	38.61	1.02	5172.65
11.600	7.521	13.6	47.2	50.21	1.52	5172.83
11.700	13.161	20.7	63.3	67.81	2.26	5173.09
11.800	19.991	33.2	89.7	96.51	3.40	5173.50
11.900	25.851	45.8	126.7	135.51	4.42	5174.02
12.000	45.911	71.8	187.3	198.41	5.57	5174.77
12.100	80.191	126.1	299.4	313.41	6.97	5175.97
12.200	87.551	167.7	449.2	467.21	9.00	5177.31
12.300	86.571	144.1	563.2	593.31	15.04	5178.23
12.400	37.031	93.6	618.2	656.81	19.32	5178.65
12.500	30.471	67.5	642.7	685.71	21.50	5178.83
12.600	28.831	59.3	656.5	702.01	22.73	5178.94
12.700	26.301	55.1	664.7	711.61	23.46	5179.00
12.800	24.271	50.6	667.8	715.31	23.75	5179.02
12.900	23.981	48.3	668.4	716.01	23.81	5179.02
13.000	22.571	46.6	667.5	714.91	23.73	5179.02
13.100	21.061	43.6	664.3	711.11	23.42	5178.99
13.200	20.471	41.5	659.7	705.81	23.02	5178.96
13.300	19.881	40.3	654.9	700.11	22.59	5178.92
13.400	18.411	38.3	649.1	693.21	22.07	5178.88
13.500	17.981	36.4	642.5	685.51	21.48	5178.83
13.600	17.581	35.6	636.2	678.01	20.92	5178.79
13.700	16.171	33.8	629.3	669.91	20.31	5178.73
13.800	15.761	31.9	621.9	661.21	19.65	5178.68
13.900	15.381	31.1	615.0	653.11	19.04	5178.63
14.000	15.051	30.4	608.5	645.41	18.46	5178.58
14.100	14.861	29.9	602.6	638.41	17.93	5178.54
14.200	13.651	28.5	596.3	631.11	17.40	5178.49
14.300	13.431	27.1	589.5	623.41	16.91	5178.44
14.400	13.221	26.7	583.3	616.21	16.47	5178.39

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Pond File: C:\POND2\ROSE2-C.PND
Inflow Hydrograph: C:\POND2\ROSE2-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE2-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
14.500	13.011	26.2	577.4	609.51	16.05	5178.34
14.600	12.821	25.8	571.9	603.21	15.66	5178.30
14.700	12.681	25.5	566.8	597.41	15.29	5178.26
14.800	12.621	25.3	562.2	592.11	14.96	5178.22
14.900	12.551	25.2	558.0	587.41	14.67	5178.19
15.000	12.481	25.0	554.2	583.01	14.40	5178.16
15.100	12.421	24.9	550.8	579.11	14.16	5178.14
15.200	12.351	24.8	547.7	575.61	13.94	5178.11
15.300	12.291	24.6	544.9	572.41	13.73	5178.09
15.400	12.221	24.5	542.3	569.41	13.55	5178.07
15.500	12.151	24.4	539.9	566.71	13.38	5178.05
15.600	12.081	24.2	537.7	564.21	13.22	5178.03
15.700	12.021	24.1	535.7	561.81	13.08	5178.02
15.800	10.951	23.0	532.9	558.61	12.88	5178.00
15.900	10.891	21.8	529.3	554.71	12.69	5177.97
16.000	10.821	21.7	526.0	551.01	12.52	5177.94
16.100	10.761	21.6	522.9	547.61	12.35	5177.92
16.200	10.681	21.4	519.9	544.31	12.19	5177.89
16.300	10.611	21.3	517.2	541.21	12.04	5177.87
16.400	10.521	21.1	514.5	538.31	11.90	5177.85
16.500	10.411	20.9	511.9	535.41	11.76	5177.83
16.600	10.291	20.7	509.3	532.61	11.62	5177.81
16.700	10.171	20.5	506.8	529.81	11.49	5177.79
16.800	10.061	20.2	504.3	527.11	11.36	5177.77
16.900	9.951	20.0	501.9	524.41	11.23	5177.75
17.000	9.861	19.8	499.5	521.71	11.10	5177.73
17.100	9.761	19.6	497.2	519.11	10.97	5177.71
17.200	9.671	19.4	494.9	516.61	10.85	5177.69
17.300	9.561	19.2	492.7	514.11	10.73	5177.67
17.400	9.411	19.0	490.4	511.61	10.61	5177.65
17.500	9.261	18.7	488.1	509.11	10.49	5177.63
17.600	9.121	18.4	485.8	506.51	10.36	5177.62
17.700	8.981	18.1	483.4	503.91	10.24	5177.60
17.800	8.861	17.8	481.0	501.21	10.11	5177.58
17.900	8.731	17.6	478.6	498.61	9.98	5177.56
18.000	8.611	17.3	476.3	496.01	9.86	5177.54
18.100	8.491	17.1	473.9	493.41	9.73	5177.52
18.200	8.331	16.8	471.5	490.71	9.60	5177.50
18.300	8.181	16.5	469.0	488.01	9.53	5177.48
18.400	8.041	16.2	466.3	485.21	9.46	5177.46
18.500	7.901	15.9	463.4	482.21	9.38	5177.43
18.600	7.721	15.6	460.4	479.01	9.30	5177.41
18.700	7.551	15.3	457.3	475.71	9.22	5177.38
18.800	7.381	14.9	453.9	472.21	9.13	5177.35
18.900	7.231	14.6	450.5	468.61	9.04	5177.32
19.000	7.041	14.3	446.9	464.61	8.94	5177.29

POND-2 Version: 5.13 S/N: 1220510336
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Pond File: C:\POND2\ROSE2-C.PND
Inflow Hydrograph: C:\POND2\ROSE2-DI.HYD
Outflow Hydrograph: C:\POND2\ROSE2-DO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
19.100	6.85	13.9	443.1	460.8	8.84	5177.26
19.200	6.68	13.5	439.2	456.6	8.73	5177.23
19.300	6.51	13.2	435.1	452.4	8.62	5177.19
19.400	6.34	12.9	430.9	448.0	8.51	5177.16
19.500	6.14	12.5	426.6	443.4	8.39	5177.12
19.600	4.90	11.0	421.2	437.7	8.25	5177.08
19.700	4.65	9.6	414.6	430.7	8.07	5177.02
19.800	4.42	9.1	407.7	423.7	7.97	5176.96
19.900	4.08	8.5	400.4	416.2	7.92	5176.90
20.000	3.78	7.9	392.5	408.2	7.86	5176.83
20.100	3.53	7.3	384.2	399.8	7.80	5176.76
20.200	3.31	6.8	375.6	391.1	7.74	5176.68
20.300	3.12	6.4	366.6	382.0	7.68	5176.60
20.400	2.96	6.1	357.5	372.7	7.62	5176.52
20.500	2.79	5.8	348.2	363.2	7.52	5176.43
20.600	2.66	5.5	338.6	353.6	7.41	5176.35
20.700	2.55	5.2	329.4	344.0	7.31	5176.26
20.800	2.45	5.0	320.0	334.4	7.20	5176.17
20.900	2.38	4.8	310.6	324.8	7.10	5176.08
21.000	2.31	4.7	301.4	315.3	6.99	5175.99
21.100	2.26	4.6	292.1	305.9	6.90	5175.90
21.200	2.21	4.5	283.0	296.6	6.81	5175.81
21.300	2.18	4.4	273.9	287.4	6.71	5175.71
21.400	2.15	4.3	265.0	276.3	6.62	5175.62
21.500	2.12	4.3	256.2	269.3	6.53	5175.53
21.600	2.10	4.2	247.6	260.5	6.43	5175.44
21.700	2.08	4.2	239.1	251.8	6.32	5175.35
21.800	2.07	4.2	230.9	243.3	6.21	5175.26
21.900	2.06	4.1	222.8	235.0	6.11	5175.17
22.000	2.05	4.1	214.9	226.9	6.00	5175.09
22.100	2.04	4.1	207.2	219.0	5.90	5175.00
22.200	2.03	4.1	199.7	211.2	5.78	5174.91
22.300	2.03	4.1	192.4	203.7	5.66	5174.83
22.400	2.02	4.1	185.4	196.5	5.54	5174.75
22.500	2.02	4.0	178.5	189.4	5.43	5174.66
22.600	2.02	4.0	171.9	182.6	5.32	5174.59
22.700	2.01	4.0	165.5	176.0	5.22	5174.51
22.800	2.01	4.0	159.4	169.6	5.09	5174.43
22.900	2.01	4.0	153.4	163.4	4.97	5174.36
23.000	2.01	4.0	147.8	157.5	4.86	5174.29
23.100	2.01	4.0	142.3	151.8	4.74	5174.22
23.200	2.01	4.0	137.0	146.3	4.64	5174.15
23.300	2.00	4.0	132.0	141.0	4.53	5174.08
23.400	2.00	4.0	127.1	136.0	4.43	5174.02
23.500	2.00	4.0	122.5	131.1	4.32	5173.96
23.600	2.00	4.0	118.1	126.5	4.19	5173.90

EXECUTED: 08-05-1990 10:38:30

Pond File: C:\POND2\ROSE2-C.PND

Inflow Hydrograph: C:\POND2\ROSE2-CI.HYD

Outflow Hydrograph: C:\POND2\ROSE2-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
23.700	2.001	4.0	113.9	122.1	4.08	5173.84
23.800	2.001	4.0	110.0	117.9	3.97	5173.78
23.900	2.001	4.0	106.3	114.0	3.86	5173.73
24.000	0.921	2.9	101.7	109.2	3.74	5173.67
24.100	0.761	1.7	96.2	103.4	3.58	5173.59
24.200	0.631	1.4	90.8	97.6	3.43	5173.52
24.300	0.561	1.2	85.5	92.0	3.22	5173.44
24.400	0.511	1.1	80.6	86.6	3.01	5173.36
24.500	0.461	1.0	75.9	81.5	2.81	5173.29
24.600	0.411	0.9	71.6	76.8	2.62	5173.22
24.700	0.381	0.8	67.5	72.3	2.44	5173.16
24.800	0.341	0.7	63.6	68.2	2.28	5173.10
24.900	0.311	0.7	60.0	64.3	2.12	5173.04
25.000	0.281	0.6	56.7	60.6	1.97	5172.99
25.100	0.251	0.5	53.6	57.2	1.83	5172.94
25.200	0.231	0.5	50.7	54.0	1.69	5172.89
25.300	0.211	0.4	48.0	51.1	1.56	5172.84
25.400	0.171	0.4	45.5	48.4	1.44	5172.80
25.500	0.171	0.4	43.2	45.9	1.33	5172.76
25.600	0.151	0.3	41.0	43.5	1.23	5172.73
25.700	0.141	0.3	39.1	41.3	1.14	5172.69
25.800	0.131	0.3	37.2	39.3	1.05	5172.66
25.900	0.111	0.2	35.5	37.5	0.97	5172.63
26.000	0.001	0.1	33.8	35.6	0.89	5172.60
26.100	0.001	0.0	32.2	33.8	0.82	5172.58
26.200	0.001	0.0	30.7	32.2	0.74	5172.55
26.300	0.001	0.0	29.4	30.7	0.68	5172.53
26.400	0.001	0.0	28.1	29.4	0.62	5172.51
26.500	0.001	0.0	26.9	28.1	0.58	5172.49
26.600	0.001	0.0	25.8	26.9	0.56	5172.47
26.700	0.001	0.0	24.8	25.8	0.54	5172.45
26.800	0.001	0.0	23.7	24.8	0.51	5172.43
26.900	0.001	0.0	22.7	23.7	0.49	5172.41
27.000	0.001	0.0	21.8	22.7	0.47	5172.39
27.100	0.001	0.0	20.9	21.8	0.45	5172.38
27.200	0.001	0.0	20.0	20.9	0.43	5172.36
27.300	0.001	0.0	19.2	20.0	0.42	5172.35
27.400	0.001	0.0	18.4	19.2	0.40	5172.33
27.500	0.001	0.0	17.6	18.4	0.38	5172.32
27.600	0.001	0.0	16.9	17.6	0.37	5172.31
27.700	0.001	0.0	16.2	16.9	0.36	5172.29
27.800	0.001	0.0	15.5	16.2	0.34	5172.28
27.900	0.001	0.0	14.9	15.5	0.32	5172.27
28.000	0.001	0.0	14.3	14.9	0.31	5172.26
28.100	0.001	0.0	13.7	14.3	0.30	5172.25
28.200	0.001	0.0	13.1	13.7	0.28	5172.24

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Pond File: C:\POND2\ROSE2-C.PND

Inflow Hydrograph: C:\POND2\ROSE2-CI.HYD

Outflow Hydrograph: C:\POND2\ROSE2-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
28.300	0.001	0.0	12.5	13.1	0.27	5172.23
28.400	0.001	0.0	12.0	12.5	0.26	5172.22
28.500	0.001	0.0	11.5	12.0	0.25	5172.21
28.600	0.001	0.0	11.0	11.5	0.24	5172.20
28.700	0.001	0.0	10.6	11.0	0.23	5172.19
28.800	0.001	0.0	10.1	10.6	0.22	5172.18
28.900	0.001	0.0	9.7	10.1	0.21	5172.18
29.000	0.001	0.0	9.3	9.7	0.20	5172.17
29.100	0.001	0.0	8.9	9.3	0.19	5172.16
29.200	0.001	0.0	8.6	8.9	0.19	5172.15
29.300	0.001	0.0	8.2	8.6	0.18	5172.15
29.400	0.001	0.0	7.9	8.2	0.17	5172.14
29.500	0.001	0.0	7.5	7.9	0.16	5172.14
29.600	0.001	0.0	7.2	7.5	0.16	5172.13
29.700	0.001	0.0	6.9	7.2	0.15	5172.13
29.800	0.001	0.0	6.6	6.9	0.14	5172.12
29.900	0.001	0.0	6.4	6.6	0.14	5172.11
30.000	0.001	0.0	6.1	6.4	0.13	5172.11

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: C:\POND2\ROSE2-C.PND
Inflow Hydrograph: C:\POND2\ROSE2-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE2-CO.HYD

Starting Pond W.S. Elevation = 5172.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 87.55 cfs
Peak Outflow = 23.81 cfs
Peak Elevation = 5179.02 ft

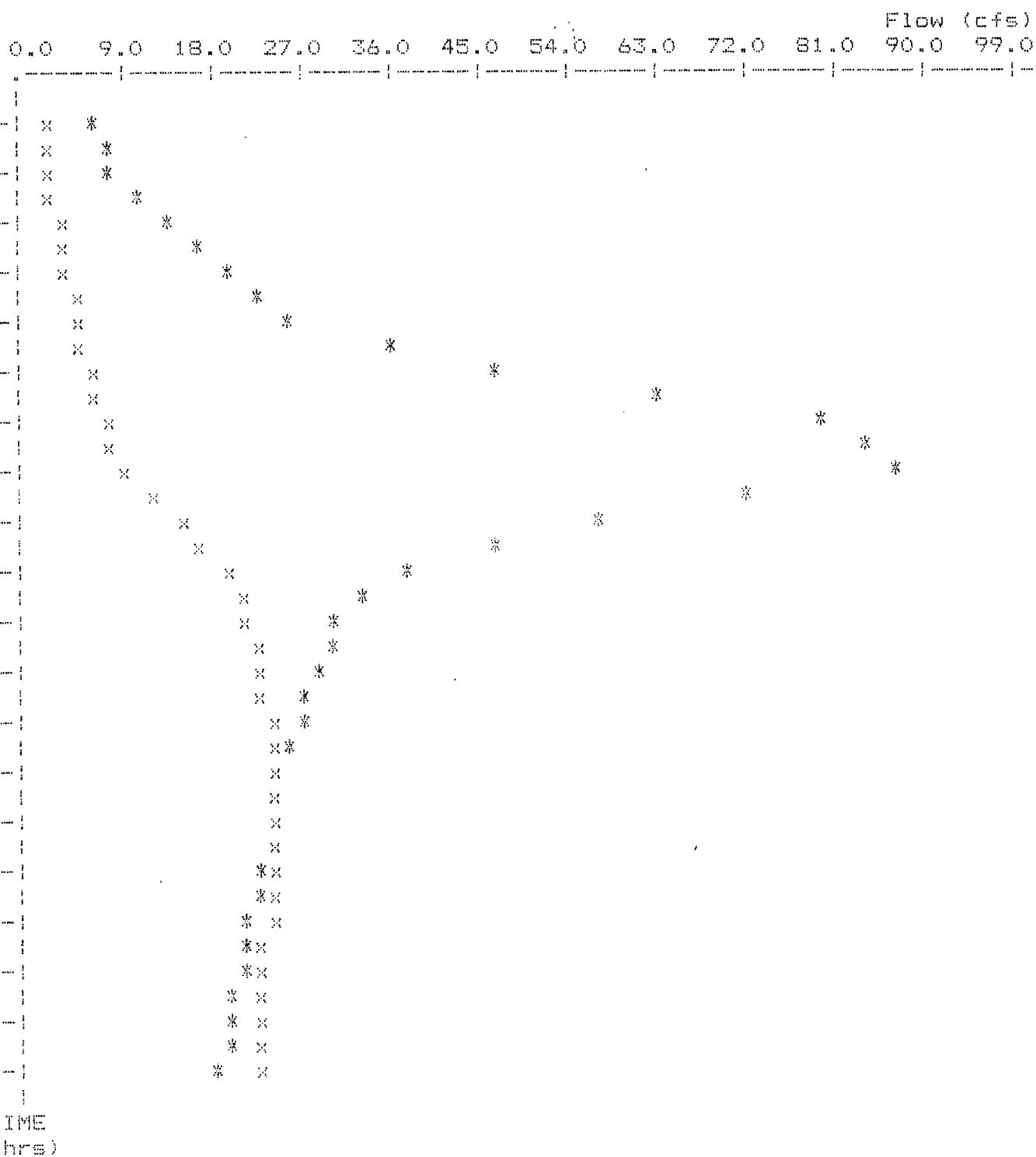
***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	2.86 ac-ft
Total Storage in Pond	=	2.86 ac-ft

Pond File: C:\POND2\ROSE2-C.PND
 Inflow Hydrograph: C:\POND2\ROSE2-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE2-CD.HYD

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Peak Inflow = 87.55 cfs
 Peak Outflow = 23.81 cfs
 Peak Elevation = 5179.02 ft



* File: C:\POND2\ROSE2-CI.HYD Qmax = 87.6 cfs
 x File: C:\POND2\ROSE2-CD.HYD Qmax = 23.8 cfs

ROSEWOOD WASH DRAINAGE BASIN

POND #3 THIRD POND IN A SERIES (NEAR MIDDLE OF PROJECT)

5 YEAR STORM

CODEGA & FRICKE, INC 8-90-1 GMP 1016.10

Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD

Rating Table file: C:\POND2\ROSE3-5.PND

-----INITIAL CONDITIONS-----

Elevation = 5170.00 ft

Outflow = 0.00 cfs

Storage = 0.00 ac-ft

GIVEN POND DATA

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
5170.00	0.0	0.000	0.0	0.0
5170.50	0.9	0.066	16.1	16.9
5171.00	2.9	0.140	33.8	36.7
5171.50	5.5	0.220	53.3	58.8
5172.00	8.3	0.308	74.5	82.8
5172.50	10.3	0.404	97.7	108.0
5173.00	12.4	0.508	122.8	134.9
5173.50	14.7	0.620	150.0	164.7
5174.00	18.9	0.741	179.3	198.2
5174.50	24.4	0.871	210.8	235.2
5175.00	31.0	1.011	244.7	275.7

Time increment (t) = 0.100 hrs.

Pond File: C:\POND2\ROSE3-5.PND
 Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE3-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
10.000	0.00	0.0	0.0	0.0	0.00	5170.00
10.100	0.00	0.0	0.0	0.0	0.00	5170.00
10.200	0.00	0.0	0.0	0.0	0.00	5170.00
10.300	0.00	0.0	0.0	0.0	0.00	5170.00
10.400	0.00	0.0	0.0	0.0	0.00	5170.00
10.500	0.00	0.0	0.0	0.0	0.00	5170.00
10.600	0.00	0.0	0.0	0.0	0.00	5170.00
10.700	0.00	0.0	0.0	0.0	0.00	5170.00
10.800	0.00	0.0	0.0	0.0	0.00	5170.00
10.900	0.00	0.0	0.0	0.0	0.00	5170.00
11.000	0.02	0.0	0.0	0.0	0.00	5170.00
11.100	0.06	0.1	0.1	0.1	0.00	5170.00
11.200	0.10	0.2	0.2	0.2	0.01	5170.01
11.300	0.14	0.2	0.4	0.5	0.02	5170.01
11.400	0.17	0.3	0.7	0.7	0.03	5170.02
11.500	1.23	1.4	1.9	2.1	0.10	5170.06
11.600	1.31	2.5	4.0	4.4	0.21	5170.13
11.700	1.41	2.7	6.1	6.7	0.32	5170.20
11.800	1.55	3.0	8.2	9.0	0.43	5170.27
11.900	1.88	3.4	10.5	11.6	0.55	5170.34
12.000	4.55	6.4	15.3	16.9	0.81	5170.50
12.100	7.80	12.4	23.8	27.7	1.94	5170.77
12.200	12.35	20.2	36.4	43.9	3.75	5171.16
12.300	13.49	25.8	50.5	62.3	5.91	5171.57
12.400	12.22	25.7	61.1	76.2	7.53	5171.86
12.500	9.62	21.8	66.3	83.0	8.31	5172.00
12.600	8.83	18.5	67.9	84.8	8.46	5172.04
12.700	8.98	17.8	68.6	85.7	8.53	5172.06
12.800	8.11	17.1	68.7	85.7	8.53	5172.06
12.900	8.21	16.3	68.0	85.0	8.47	5172.04
13.000	8.30	16.5	67.7	84.5	8.44	5172.03
13.100	8.36	16.7	67.5	84.3	8.42	5172.03
13.200	8.43	16.8	67.4	84.3	8.42	5172.03
13.300	8.48	16.9	67.5	84.4	8.42	5172.03
13.400	8.52	17.0	67.6	84.5	8.43	5172.03
13.500	8.55	17.1	67.8	84.7	8.45	5172.04
13.600	8.59	17.1	68.0	85.0	8.47	5172.04
13.700	8.61	17.2	68.2	85.2	8.49	5172.05
13.800	8.63	17.2	68.5	85.5	8.51	5172.05
13.900	8.64	17.3	68.7	85.7	8.53	5172.06
14.000	8.66	17.3	68.9	86.0	8.55	5172.06
14.100	8.67	17.3	69.1	86.2	8.57	5172.07
14.200	7.68	16.4	68.4	85.4	8.51	5172.05
14.300	7.69	15.4	67.0	83.8	8.38	5172.02
14.400	7.70	15.4	65.9	82.4	8.25	5171.99

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Pond File: C:\POND2\ROSE3-5.PND
Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE3-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
14.500	7.701	15.4	65.1	81.31	8.12	5171.97
14.600	7.691	15.4	64.4	80.41	8.02	5171.95
14.700	7.681	15.4	63.9	79.81	7.94	5171.94
14.800	7.661	15.3	63.5	79.21	7.88	5171.93
14.900	7.651	15.3	63.1	78.81	7.83	5171.92
15.000	7.631	15.3	62.8	78.41	7.78	5171.91
15.100	7.611	15.2	62.6	78.11	7.75	5171.90
15.200	7.581	15.2	62.3	77.81	7.71	5171.89
15.300	7.541	15.1	62.1	77.51	7.68	5171.89
15.400	7.501	15.0	61.9	77.11	7.64	5171.88
15.500	7.451	15.0	61.6	76.81	7.60	5171.88
15.600	7.401	14.9	61.3	76.51	7.56	5171.87
15.700	7.351	14.8	61.1	76.11	7.52	5171.86
15.800	7.301	14.7	60.8	75.71	7.47	5171.85
15.900	7.241	14.5	60.5	75.31	7.43	5171.84
16.000	7.181	14.4	60.1	74.91	7.38	5171.83
16.100	7.121	14.3	59.8	74.41	7.32	5171.83
16.200	7.061	14.2	59.4	74.01	7.27	5171.82
16.300	6.991	14.1	59.0	73.51	7.21	5171.81
16.400	6.931	13.9	58.7	73.01	7.15	5171.80
16.500	6.861	13.6	58.3	72.51	7.09	5171.78
16.600	6.791	13.7	57.9	71.71	7.03	5171.77
16.700	6.721	13.5	57.4	71.41	6.97	5171.76
16.800	6.641	13.4	57.0	70.91	6.90	5171.75
16.900	6.561	13.2	56.5	70.21	6.83	5171.74
17.000	6.481	13.0	56.1	69.61	6.76	5171.72
17.100	6.381	12.9	55.6	68.91	6.68	5171.71
17.200	6.281	12.7	55.0	68.21	6.60	5171.70
17.300	6.181	12.5	54.4	67.51	6.51	5171.68
17.400	6.081	12.3	53.9	66.71	6.42	5171.67
17.500	5.991	12.1	53.3	65.91	6.33	5171.65
17.600	5.891	11.9	52.7	65.11	6.24	5171.63
17.700	5.771	11.7	52.0	64.31	6.15	5171.62
17.800	5.651	11.4	51.3	63.41	6.04	5171.60
17.900	5.541	11.2	50.7	62.51	5.94	5171.58
18.000	5.431	11.0	50.0	61.61	5.83	5171.56
18.100	5.321	10.8	49.3	60.71	5.73	5171.54
18.200	5.221	10.5	48.6	59.81	5.62	5171.52
18.300	5.101	10.3	47.8	58.91	5.51	5171.50
18.400	4.981	10.1	47.1	57.91	5.40	5171.48
18.500	4.861	9.8	46.4	57.01	5.29	5171.46
18.600	4.751	9.6	45.6	56.01	5.17	5171.44
18.700	4.651	9.4	44.9	55.01	5.06	5171.42
18.800	4.541	9.2	44.2	54.11	4.95	5171.39
18.900	4.441	9.0	43.5	53.21	4.84	5171.37
19.000	4.331	8.8	42.8	52.31	4.74	5171.35

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Pond File: C:\POND2\ROSE3-5.PND
Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE3-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I _i +I _{i-1} (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
19.100	4.21	8.5	42.1	51.3	4.63	5171.33
19.200	4.09	8.3	41.4	50.4	4.51	5171.31
19.300	3.98	8.1	40.6	49.4	4.40	5171.29
19.400	3.88	7.9	39.9	48.5	4.29	5171.27
19.500	3.78	7.7	39.2	47.6	4.18	5171.25
19.600	3.68	7.5	38.5	46.7	4.07	5171.23
19.700	3.59	7.3	37.8	45.8	3.97	5171.21
19.800	3.51	7.1	37.2	44.9	3.87	5171.19
19.900	3.43	6.9	36.6	44.1	3.78	5171.17
20.000	3.33	6.8	36.0	43.3	3.68	5171.15
20.100	3.23	6.6	35.4	42.5	3.59	5171.13
20.200	3.13	6.4	34.7	41.7	3.49	5171.11
20.300	3.04	6.2	34.1	40.9	3.40	5171.10
20.400	2.96	6.0	33.5	40.1	3.30	5171.08
20.500	2.88	5.8	32.9	39.4	3.21	5171.06
20.600	2.81	5.7	32.4	38.6	3.13	5171.04
20.700	2.75	5.6	31.8	37.9	3.04	5171.03
20.800	2.69	5.4	31.3	37.3	2.97	5171.01
20.900	2.63	5.3	30.9	36.7	2.90	5171.00
21.000	2.58	5.2	30.4	36.1	2.83	5170.98
21.100	2.54	5.1	30.0	35.5	2.78	5170.97
21.200	2.49	5.0	29.6	35.0	2.72	5170.96
21.300	2.45	4.9	29.2	34.5	2.67	5170.94
21.400	2.42	4.9	28.8	34.0	2.62	5170.93
21.500	2.38	4.8	28.5	33.6	2.57	5170.92
21.600	2.35	4.7	28.1	33.2	2.53	5170.91
21.700	2.33	4.7	27.8	32.8	2.49	5170.90
21.800	2.30	4.6	27.6	32.5	2.45	5170.89
21.900	2.28	4.6	27.3	32.1	2.42	5170.89
22.000	2.25	4.5	27.1	31.8	2.39	5170.88
22.100	2.23	4.5	26.8	31.6	2.35	5170.87
22.200	2.22	4.5	26.6	31.3	2.33	5170.86
22.300	2.20	4.4	26.5	31.1	2.30	5170.86
22.400	2.18	4.4	26.3	30.8	2.28	5170.85
22.500	2.17	4.4	26.1	30.6	2.26	5170.85
22.600	2.15	4.3	26.0	30.4	2.24	5170.84
22.700	2.14	4.3	25.8	30.3	2.22	5170.84
22.800	2.13	4.3	25.7	30.1	2.20	5170.83
22.900	2.12	4.3	25.6	29.9	2.18	5170.83
23.000	2.11	4.2	25.5	29.8	2.17	5170.83
23.100	2.10	4.2	25.4	29.7	2.16	5170.82
23.200	2.09	4.2	25.3	29.6	2.14	5170.82
23.300	2.09	4.2	25.2	29.4	2.13	5170.82
23.400	2.08	4.2	25.1	29.4	2.12	5170.81
23.500	2.07	4.2	25.0	29.3	2.11	5170.81
23.600	2.07	4.1	25.0	29.2	2.10	5170.81

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Pond File: C:\POND2\ROSE3-5.PND

Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD

Outflow Hydrograph: C:\POND2\ROSE3-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
23.700	2.061	4.1	24.9	29.1	2.09	5170.81
23.800	2.061	4.1	24.9	29.0	2.09	5170.81
23.900	2.051	4.1	24.8	29.0	2.08	5170.80
24.000	2.011	4.1	24.7	28.9	2.07	5170.80
24.100	1.901	3.9	24.5	28.6	2.05	5170.80
24.200	1.801	3.7	24.2	28.2	2.00	5170.79
24.300	1.701	3.5	23.8	27.7	1.95	5170.77
24.400	1.591	3.3	23.4	27.1	1.89	5170.76
24.500	1.501	3.1	22.8	26.4	1.81	5170.74
24.600	1.411	2.9	22.3	25.7	1.74	5170.72
24.700	1.321	2.7	21.7	25.0	1.66	5170.70
24.800	1.241	2.5	21.1	24.2	1.58	5170.69
24.900	1.161	2.4	20.5	23.5	1.50	5170.67
25.000	1.081	2.2	19.9	22.7	1.42	5170.65
25.100	1.011	2.1	19.3	22.0	1.34	5170.63
25.200	0.951	2.0	18.7	21.2	1.26	5170.61
25.300	0.881	1.8	18.2	20.6	1.19	5170.59
25.400	0.821	1.7	17.6	19.9	1.12	5170.58
25.500	0.771	1.6	17.1	19.2	1.05	5170.56
25.600	0.721	1.5	16.7	18.6	0.98	5170.54
25.700	0.671	1.4	16.2	18.0	0.92	5170.53
25.800	0.621	1.3	15.8	17.5	0.86	5170.52
25.900	0.591	1.2	15.3	17.0	0.81	5170.50
26.000	0.571	1.2	14.9	16.5	0.78	5170.49
26.100	0.541	1.1	14.5	16.1	0.76	5170.48
26.200	0.521	1.1	14.1	15.6	0.74	5170.46
26.300	0.501	1.0	13.7	15.1	0.72	5170.45
26.400	0.481	1.0	13.3	14.7	0.70	5170.43
26.500	0.461	0.9	12.9	14.2	0.67	5170.42
26.600	0.441	0.9	12.5	13.8	0.65	5170.41
26.700	0.421	0.9	12.1	13.3	0.63	5170.39
26.800	0.401	0.8	11.7	12.9	0.61	5170.38
26.900	0.391	0.8	11.3	12.5	0.59	5170.37
27.000	0.371	0.8	10.9	12.0	0.57	5170.36
27.100	0.361	0.7	10.5	11.6	0.55	5170.34
27.200	0.341	0.7	10.2	11.2	0.53	5170.33
27.300	0.331	0.7	9.8	10.8	0.51	5170.32
27.400	0.311	0.6	9.5	10.4	0.49	5170.31
27.500	0.301	0.6	9.1	10.1	0.48	5170.30
27.600	0.291	0.6	8.8	9.7	0.46	5170.29
27.700	0.281	0.6	8.5	9.3	0.44	5170.28
27.800	0.261	0.5	8.1	9.0	0.43	5170.27
27.900	0.251	0.5	7.8	8.7	0.41	5170.26
28.000	0.241	0.5	7.5	8.3	0.39	5170.25
28.100	0.231	0.5	7.2	8.0	0.38	5170.24
28.200	0.221	0.5	7.0	7.7	0.36	5170.23

Pond File: C:\POND2\ROSE3-5.PND
 Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE3-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
28.300	0.21	0.4	6.7	7.4	0.35	5170.22
28.400	0.20	0.4	6.4	7.1	0.34	5170.21
28.500	0.20	0.4	6.2	6.8	0.32	5170.20
28.600	0.19	0.4	6.0	6.6	0.31	5170.19
28.700	0.18	0.4	5.7	6.3	0.30	5170.19
28.800	0.17	0.4	5.5	6.1	0.29	5170.18
28.900	0.17	0.3	5.3	5.8	0.28	5170.17
29.000	0.16	0.3	5.1	5.6	0.27	5170.17
29.100	0.15	0.3	4.9	5.4	0.26	5170.16
29.200	0.15	0.3	4.7	5.2	0.25	5170.15
29.300	0.14	0.3	4.5	5.0	0.24	5170.15
29.400	0.13	0.3	4.3	4.8	0.23	5170.14
29.500	0.13	0.3	4.1	4.6	0.22	5170.14
29.600	0.12	0.3	4.0	4.4	0.21	5170.13
29.700	0.12	0.2	3.9	4.2	0.20	5170.13
29.800	0.11	0.2	3.7	4.1	0.19	5170.12
29.900	0.11	0.2	3.5	3.9	0.18	5170.12
30.000	0.10	0.2	3.4	3.7	0.18	5170.11
30.100	0.00	0.1	3.1	3.5	0.16	5170.10
30.200	0.00	0.0	2.8	3.1	0.15	5170.09
30.300	0.00	0.0	2.6	2.8	0.14	5170.08
30.400	0.00	0.0	2.3	2.6	0.12	5170.08
30.500	0.00	0.0	2.1	2.3	0.11	5170.07
30.600	0.00	0.0	1.9	2.1	0.10	5170.06
30.700	0.00	0.0	1.7	1.9	0.09	5170.06
30.800	0.00	0.0	1.6	1.7	0.08	5170.05
30.900	0.00	0.0	1.4	1.6	0.07	5170.05
31.000	0.00	0.0	1.3	1.4	0.07	5170.04
31.100	0.00	0.0	1.2	1.3	0.06	5170.04
31.200	0.00	0.0	1.1	1.2	0.06	5170.03
31.300	0.00	0.0	1.0	1.1	0.05	5170.03
31.400	0.00	0.0	0.9	1.0	0.05	5170.03
31.500	0.00	0.0	0.8	0.9	0.04	5170.03
31.600	0.00	0.0	0.7	0.8	0.04	5170.02
31.700	0.00	0.0	0.6	0.7	0.03	5170.02
31.800	0.00	0.0	0.6	0.6	0.03	5170.02
31.900	0.00	0.0	0.5	0.6	0.03	5170.02
32.000	0.00	0.0	0.5	0.5	0.02	5170.02
32.100	0.00	0.0	0.4	0.5	0.02	5170.01
32.200	0.00	0.0	0.4	0.4	0.02	5170.01
32.300	0.00	0.0	0.4	0.4	0.02	5170.01
32.400	0.00	0.0	0.3	0.4	0.02	5170.01
32.500	0.00	0.0	0.3	0.3	0.02	5170.01
32.600	0.00	0.0	0.3	0.3	0.01	5170.01
32.700	0.00	0.0	0.2	0.3	0.01	5170.01
32.800	0.00	0.0	0.2	0.2	0.01	5170.01

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Pond File: C:\POND2\ROSE3-5.PND
Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE3-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I ₁ +I ₂ (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
32.900	0.001	0.0	0.2	0.2	0.01	5170.01
33.000	0.001	0.0	0.2	0.2	0.01	5170.01
33.100	0.001	0.0	0.2	0.2	0.01	5170.01
33.200	0.001	0.0	0.1	0.2	0.01	5170.00
33.300	0.001	0.0	0.1	0.1	0.01	5170.00
33.400	0.001	0.0	0.1	0.1	0.01	5170.00
33.500	0.001	0.0	0.1	0.1	0.01	5170.00
33.600	0.001	0.0	0.1	0.1	0.01	5170.00
33.700	0.001	0.0	0.1	0.1	0.00	5170.00
33.800	0.001	0.0	0.1	0.1	0.00	5170.00
33.900	0.001	0.0	0.1	0.1	0.00	5170.00
34.000	0.001	0.0	0.1	0.1	0.00	5170.00
34.100	0.001	0.0	0.1	0.1	0.00	5170.00
34.200	0.001	0.0	0.1	0.1	0.00	5170.00
34.300	0.001	0.0	0.0	0.1	0.00	5170.00
34.400	0.001	0.0	0.0	0.0	0.00	5170.00
34.500	0.001	0.0	0.0	0.0	0.00	5170.00
34.600	0.001	0.0	0.0	0.0	0.00	5170.00
34.700	0.001	0.0	0.0	0.0	0.00	5170.00
34.800	0.001	0.0	0.0	0.0	0.00	5170.00
34.900	0.001	0.0	0.0	0.0	0.00	5170.00
35.000	0.001	0.0	0.0	0.0	0.00	5170.00

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: C:\POND2\ROSE3-5.PND
Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE3-5O.HYD

Starting Pond W.S. Elevation = 5170.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 13.49 cfs
Peak Outflow = 8.57 cfs
Peak Elevation = 5172.07 ft

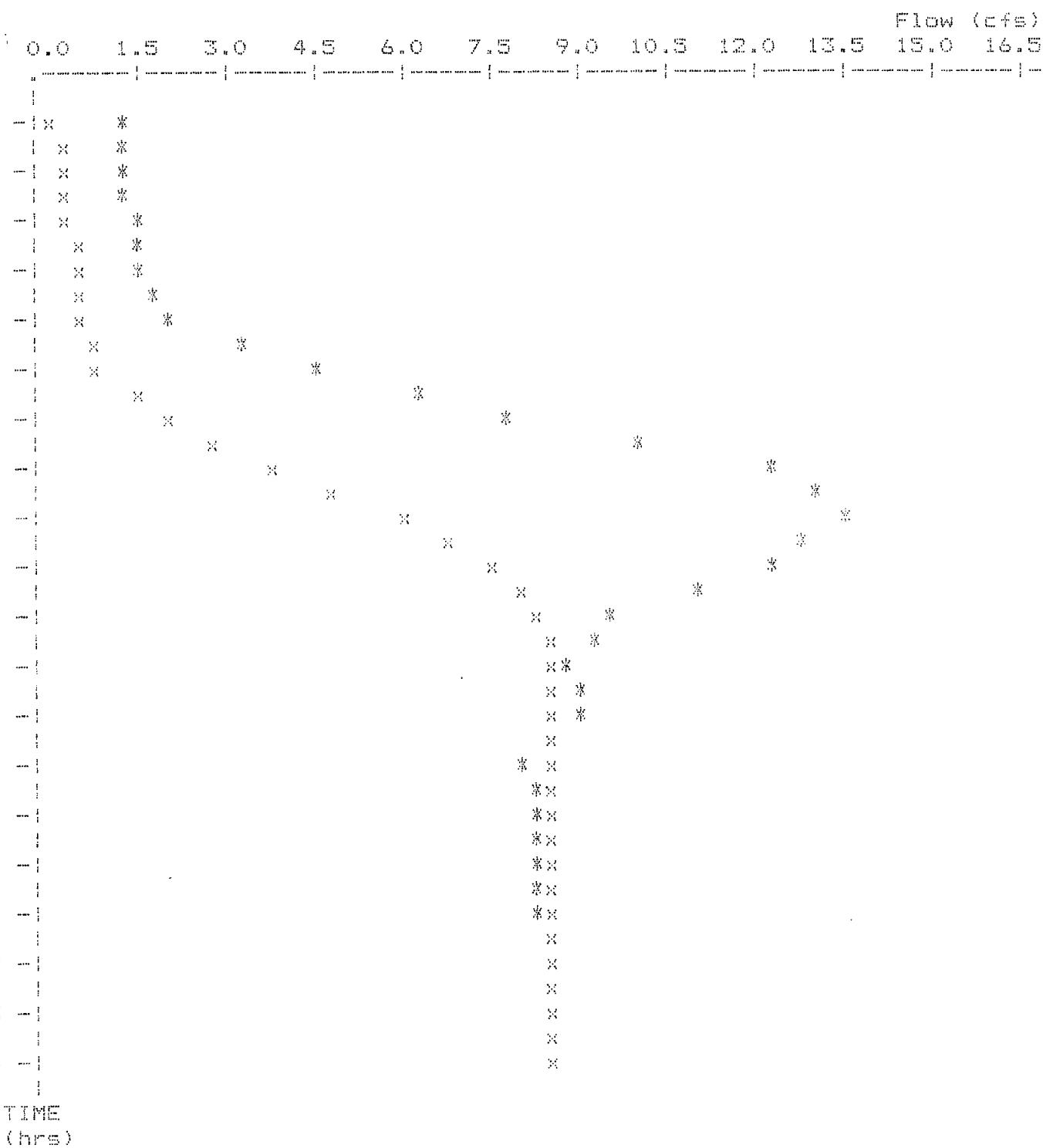
***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.32 ac-ft
<hr/>		
Total Storage in Pond	=	0.32 ac-ft

Pond File: C:\POND2\ROSE3-5.PND
 Inflow Hydrograph: C:\POND2\ROSE3-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE3-5O.HYD

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Peak Inflow = 13.49 cfs
 Peak Outflow = 8.57 cfs
 Peak Elevation = 5172.07 ft



* File: C:\POND2\ROSE3-5I.HYD Qmax = 13.5 cfs
 x File: C:\POND2\ROSE3-5O.HYD Qmax = 8.6 cfs

ROSEWOOD WASH DRAINAGE BASIN
POND #3 THIRD POND IN A SERIES (NEAR MIDDLE OF PROJECT)
100 YEAR STORM

CODEGA & FRICKE, INC 8-5-90 GMP 1016.10

Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD
Rating Table file: C:\POND2\ROSE3-C.PND

-----INITIAL CONDITIONS-----

Elevation = 5170.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
5170.00	0.0	0.000
5170.50	0.8	0.066
5171.00	2.7	0.140
5171.50	5.5	0.220
5172.00	8.3	0.308
5172.50	10.3	0.404
5173.00	12.1	0.508
5173.50	14.7	0.620
5174.00	18.9	0.741
5174.50	24.4	0.871
5175.00	31.0	1.011

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION	OUTFLOW	STORAGE	2S/t	2S/t + O
(ft)	(cfs)	(ac-ft)	(cfs)	(cfs)
5170.00	0.0	0.000	0.0	0.0
5170.50	0.8	0.066	16.1	16.9
5171.00	2.7	0.140	33.8	36.7
5171.50	5.5	0.220	53.3	58.8
5172.00	8.3	0.308	74.5	82.8
5172.50	10.3	0.404	97.7	108.0
5173.00	12.1	0.508	122.8	134.9
5173.50	14.7	0.620	150.0	164.7
5174.00	18.9	0.741	179.3	198.2
5174.50	24.4	0.871	210.8	235.2
5175.00	31.0	1.011	244.7	275.7

Time increment (t) = 0.100 hrs.

POND-2 Version: 5.13 S/N: 1220510336
EXECUTED: 08-05-1990 10:47:22

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Pond File: C:\POND2\ROSE3-C.PND
Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE3-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
10.000	0.001	---	0.0	0.0	0.00	5170.00
10.100	0.001	0.0	0.0	0.0	0.00	5170.00
10.200	0.001	0.0	0.0	0.0	0.00	5170.00
10.300	0.001	0.0	0.0	0.0	0.00	5170.00
10.400	0.001	0.0	0.0	0.0	0.00	5170.00
10.500	0.001	0.0	0.0	0.0	0.00	5170.00
10.600	0.001	0.0	0.0	0.0	0.00	5170.00
10.700	0.001	0.0	0.0	0.0	0.00	5170.00
10.800	0.001	0.0	0.0	0.0	0.00	5170.00
10.900	0.001	0.0	0.0	0.0	0.00	5170.00
11.000	1.041	1.0	0.9	1.0	0.05	5170.03
11.100	1.131	2.2	2.8	3.1	0.15	5170.09
11.200	1.251	2.4	4.7	5.2	0.25	5170.15
11.300	1.401	2.7	6.7	7.4	0.35	5170.22
11.400	1.561	3.0	9.7	9.6	0.46	5170.29
11.500	2.021	3.6	11.2	12.3	0.58	5170.37
11.600	2.521	4.5	14.2	15.7	0.74	5170.46
11.700	5.261	7.8	19.3	22.0	1.34	5170.55
11.800	7.401	12.7	27.2	32.0	2.40	5170.66
11.900	10.421	17.8	37.2	45.0	3.85	5171.19
12.000	16.571	27.0	52.0	64.2	6.14	5171.61
12.100	27.971	44.5	77.7	96.5	9.39	5172.27
12.200	31.001	59.0	112.2	136.7	12.25	5173.03
12.300	28.041	59.0	140.2	171.2	15.52	5173.60
12.400	26.321	54.4	157.7	194.5	18.44	5173.95
12.500	26.501	52.8	169.0	210.5	20.72	5174.17
12.600	26.731	53.2	177.3	222.3	22.47	5174.32
12.700	26.461	53.2	183.1	230.5	23.70	5174.44
12.800	25.751	52.2	186.5	235.3	24.41	5174.50
12.900	25.811	51.6	188.3	238.1	24.86	5174.53
13.000	25.731	51.5	189.6	239.7	25.16	5174.56
13.100	25.421	51.2	190.1	240.7	25.29	5174.57
13.200	25.021	50.4	190.0	240.6	25.27	5174.57
13.300	24.591	49.6	189.4	239.6	25.12	5174.55
13.400	24.071	48.7	188.3	238.1	24.86	5174.53
13.500	23.481	47.6	186.9	235.9	24.51	5174.51
13.600	21.921	45.4	184.4	232.3	23.96	5174.46
13.700	21.311	43.2	181.1	227.6	23.26	5174.40
13.800	20.651	42.0	177.9	223.0	22.59	5174.34
13.900	20.041	40.7	174.7	218.5	21.92	5174.27
14.000	19.461	39.5	171.7	214.2	21.28	5174.22
14.100	19.931	38.4	168.7	210.0	20.66	5174.16
14.200	18.401	37.2	165.9	206.1	20.07	5174.11
14.300	17.911	36.3	163.2	202.2	19.50	5174.05
14.400	17.471	35.4	160.7	198.6	18.96	5174.01

Pond File: C:\POND2\ROSE3-C.PND
 Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE3-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
14.500	17.05	34.5	158.2	195.2	18.53	5173.96
14.600	16.66	33.7	155.7	191.9	18.11	5173.91
14.700	16.29	33.0	153.2	188.6	17.70	5173.86
14.800	15.96	32.3	150.9	185.5	17.30	5173.81
14.900	15.67	31.6	148.6	182.5	16.93	5173.77
15.000	15.40	31.1	146.5	179.7	16.58	5173.72
15.100	15.16	30.6	144.6	177.1	16.25	5173.69
15.200	14.94	30.1	142.8	174.7	15.95	5173.65
15.300	14.73	29.7	141.1	172.5	15.67	5173.62
15.400	14.55	29.3	139.6	170.4	15.41	5173.58
15.500	14.36	28.9	138.1	168.5	15.18	5173.56
15.600	14.22	28.6	136.8	166.7	14.96	5173.53
15.700	14.08	28.3	135.6	165.1	14.75	5173.51
15.800	13.93	28.0	134.4	163.6	14.60	5173.48
15.900	13.69	27.6	133.0	161.9	14.46	5173.45
16.000	13.52	27.2	131.6	160.2	14.31	5173.43
16.100	13.35	26.9	130.2	158.5	14.16	5173.40
16.200	13.19	26.5	128.7	156.7	14.00	5173.37
16.300	13.04	26.2	127.2	154.9	13.85	5173.34
16.400	12.90	25.9	125.8	153.2	13.69	5173.31
16.500	12.76	25.7	124.4	151.5	13.54	5173.28
16.600	12.62	25.4	123.0	149.7	13.39	5173.25
16.700	12.49	25.1	121.6	148.1	13.25	5173.22
16.800	12.36	24.9	120.2	146.4	13.10	5173.19
16.900	12.23	24.6	118.9	144.8	12.96	5173.17
17.000	12.10	24.3	117.6	143.2	12.82	5173.14
17.100	11.97	24.1	116.3	141.6	12.69	5173.11
17.200	11.85	23.8	115.0	140.1	12.55	5173.09
17.300	11.73	23.6	113.7	138.6	12.42	5173.06
17.400	11.61	23.3	112.5	137.1	12.29	5173.04
17.500	11.49	23.1	111.3	135.6	12.16	5173.01
17.600	11.36	22.9	110.0	134.1	12.05	5172.99
17.700	11.24	22.6	108.7	132.6	11.95	5172.96
17.800	11.11	22.4	107.4	131.1	11.84	5172.93
17.900	10.98	22.1	106.0	129.5	11.74	5172.90
18.000	10.86	21.8	104.6	127.8	11.63	5172.87
18.100	10.73	21.6	103.2	126.2	11.52	5172.84
18.200	10.60	21.3	101.7	124.5	11.40	5172.81
18.300	10.53	21.1	100.2	122.8	11.29	5172.78
18.400	10.46	21.0	98.8	121.2	11.18	5172.75
18.500	9.38	19.9	96.7	118.7	11.02	5172.70
18.600	9.30	18.7	93.9	115.3	10.79	5172.64
18.700	9.22	18.5	91.1	112.3	10.59	5172.58
18.800	9.13	18.4	88.7	109.4	10.40	5172.53
18.900	9.04	18.2	86.4	106.8	10.21	5172.48
19.000	8.94	18.0	84.4	104.4	10.01	5172.43

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Pond File: C:\POND2\ROSE3-C.PND
Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE3-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
19.100	8.84	17.8	82.5	102.1	9.84	5172.38
19.200	8.73	17.6	80.7	100.0	9.67	5172.34
19.300	8.62	17.4	79.0	98.1	9.51	5172.30
19.400	8.51	17.1	77.4	96.2	9.36	5172.27
19.500	8.39	16.9	75.9	94.3	9.22	5172.23
19.600	8.25	16.6	74.4	92.5	9.07	5172.19
19.700	8.07	16.3	72.9	90.7	8.93	5172.16
19.800	7.97	16.0	71.3	88.9	8.78	5172.12
19.900	7.92	15.9	69.9	87.2	8.65	5172.09
20.000	7.86	15.8	68.7	85.7	8.53	5172.06
20.100	7.80	15.7	67.5	84.3	8.42	5172.03
20.200	7.74	15.5	66.4	83.0	8.32	5172.00
20.300	7.68	15.4	65.4	81.8	8.18	5171.98
20.400	7.62	15.3	64.6	80.7	8.06	5171.96
20.500	7.52	15.1	63.9	79.8	7.94	5171.94
20.600	7.41	14.9	63.1	78.8	7.83	5171.92
20.700	7.31	14.7	62.4	77.9	7.72	5171.90
20.800	7.20	14.5	61.7	76.9	7.61	5171.88
20.900	7.10	14.3	61.0	76.0	7.51	5171.86
21.000	6.99	14.1	60.3	75.1	7.40	5171.84
21.100	6.90	13.9	59.6	74.2	7.29	5171.82
21.200	6.81	13.7	58.9	73.3	7.19	5171.80
21.300	6.71	13.5	58.2	72.4	7.09	5171.78
21.400	6.62	13.3	57.6	71.6	6.99	5171.77
21.500	6.53	13.2	57.0	70.7	6.89	5171.75
21.600	6.43	13.0	56.3	69.9	6.80	5171.73
21.700	6.32	12.8	55.7	69.1	6.70	5171.71
21.800	6.21	12.5	55.0	68.2	6.60	5171.70
21.900	6.11	12.3	54.3	67.3	6.50	5171.68
22.000	6.00	12.1	53.7	66.4	6.39	5171.66
22.100	5.90	11.9	53.0	65.6	6.29	5171.64
22.200	5.78	11.7	52.3	64.7	6.19	5171.62
22.300	5.66	11.4	51.6	63.7	6.08	5171.60
22.400	5.54	11.2	50.9	62.8	5.97	5171.58
22.500	5.43	11.0	50.1	61.8	5.85	5171.56
22.600	5.32	10.8	49.4	60.8	5.74	5171.54
22.700	5.22	10.5	48.6	59.9	5.63	5171.52
22.800	5.09	10.3	47.9	58.9	5.52	5171.50
22.900	4.97	10.1	47.1	58.0	5.41	5171.48
23.000	4.86	9.8	46.4	57.0	5.29	5171.46
23.100	4.74	9.6	45.6	56.0	5.17	5171.44
23.200	4.64	9.4	44.9	55.0	5.06	5171.42
23.300	4.53	9.2	44.2	54.1	4.95	5171.39
23.400	4.43	9.0	43.5	53.1	4.84	5171.37
23.500	4.32	8.8	42.8	52.2	4.73	5171.35
23.600	4.19	8.5	42.0	51.3	4.62	5171.33

Pond File: C:\POND2\ROSE3-C.PND

Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD

Outflow Hydrograph: C:\POND2\ROSE3-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
23.700	4.08	8.3	41.3	50.3	4.50	5171.31
23.800	3.97	8.1	40.6	49.3	4.39	5171.29
23.900	3.86	7.9	39.8	48.4	4.28	5171.27
24.000	3.74	7.6	39.1	47.4	4.17	5171.24
24.100	3.58	7.3	38.3	46.4	4.05	5171.22
24.200	3.43	7.0	37.5	45.3	3.92	5171.20
24.300	3.22	6.7	36.6	44.2	3.78	5171.17
24.400	3.01	6.2	35.6	42.8	3.62	5171.14
24.500	2.81	5.8	34.5	41.4	3.45	5171.11
24.600	2.62	5.4	33.4	39.9	3.28	5171.07
24.700	2.44	5.1	32.2	38.4	3.10	5171.04
24.800	2.28	4.7	31.1	36.9	2.93	5171.01
24.900	2.12	4.4	29.9	35.5	2.77	5170.97
25.000	1.97	4.1	28.8	34.0	2.62	5170.93
25.100	1.83	3.8	27.7	32.6	2.47	5170.90
25.200	1.69	3.5	26.6	31.2	2.32	5170.86
25.300	1.56	3.3	25.5	29.8	2.17	5170.83
25.400	1.44	3.0	24.4	28.5	2.03	5170.79
25.500	1.33	2.8	23.4	27.2	1.89	5170.76
25.600	1.23	2.6	22.4	26.0	1.76	5170.73
25.700	1.14	2.4	21.5	24.8	1.64	5170.70
25.800	1.05	2.2	20.7	23.7	1.52	5170.67
25.900	0.97	2.0	19.9	22.7	1.42	5170.65
26.000	0.89	1.9	19.1	21.7	1.31	5170.62
26.100	0.82	1.7	18.4	20.6	1.22	5170.60
26.200	0.74	1.6	17.7	19.9	1.12	5170.58
26.300	0.68	1.4	17.0	19.1	1.04	5170.56
26.400	0.62	1.3	16.4	18.3	0.95	5170.54
26.500	0.58	1.2	15.9	17.6	0.88	5170.52
26.600	0.56	1.1	15.4	17.0	0.81	5170.50
26.700	0.54	1.1	14.9	16.5	0.78	5170.49
26.800	0.51	1.1	14.5	16.0	0.76	5170.47
26.900	0.49	1.0	14.0	15.5	0.73	5170.46
27.000	0.47	1.0	13.5	14.9	0.71	5170.44
27.100	0.45	0.9	13.1	14.4	0.68	5170.43
27.200	0.43	0.9	12.6	14.0	0.66	5170.41
27.300	0.42	0.9	12.2	13.5	0.64	5170.40
27.400	0.40	0.8	11.8	13.0	0.62	5170.39
27.500	0.38	0.8	11.4	12.6	0.60	5170.37
27.600	0.37	0.8	11.0	12.1	0.58	5170.36
27.700	0.35	0.7	10.6	11.7	0.55	5170.35
27.800	0.34	0.7	10.2	11.3	0.53	5170.33
27.900	0.32	0.7	9.8	10.9	0.52	5170.32
28.000	0.31	0.6	9.5	10.5	0.50	5170.31
28.100	0.30	0.6	9.1	10.1	0.48	5170.30
28.200	0.28	0.6	8.8	9.7	0.46	5170.29

Pond File: C:\POND2\ROSE3-C.PND
 Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE3-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
28.300	0.27	0.6	8.5	9.3	0.44	5170.28
28.400	0.26	0.5	8.1	9.0	0.43	5170.27
28.500	0.25	0.5	7.8	8.6	0.41	5170.26
28.600	0.24	0.5	7.5	8.3	0.39	5170.25
28.700	0.23	0.5	7.2	8.0	0.38	5170.24
28.800	0.22	0.5	7.0	7.7	0.36	5170.23
28.900	0.21	0.4	6.7	7.4	0.35	5170.22
29.000	0.20	0.4	6.4	7.1	0.34	5170.21
29.100	0.19	0.4	6.2	6.8	0.32	5170.20
29.200	0.19	0.4	5.9	6.5	0.31	5170.19
29.300	0.18	0.4	5.7	6.3	0.30	5170.19
29.400	0.17	0.4	5.5	6.1	0.29	5170.18
29.500	0.16	0.3	5.3	5.9	0.28	5170.17
29.600	0.16	0.3	5.0	5.6	0.26	5170.17
29.700	0.15	0.3	4.9	5.4	0.25	5170.16
29.800	0.14	0.3	4.7	5.1	0.24	5170.15
29.900	0.14	0.3	4.5	4.9	0.23	5170.15
30.000	0.13	0.3	4.3	4.7	0.22	5170.14
30.100	0.001	0.1	4.0	4.4	0.21	5170.13
30.200	0.001	0.0	3.6	4.0	0.19	5170.12
30.300	0.001	0.0	3.3	3.6	0.17	5170.11
30.400	0.001	0.0	3.0	3.3	0.16	5170.10
30.500	0.001	0.0	2.7	3.0	0.14	5170.09
30.600	0.001	0.0	2.4	2.7	0.13	5170.08
30.700	0.001	0.0	2.2	2.4	0.12	5170.07
30.800	0.001	0.0	2.0	2.2	0.10	5170.07
30.900	0.001	0.0	1.8	2.0	0.09	5170.06
31.000	0.001	0.0	1.6	1.8	0.09	5170.05
31.100	0.001	0.0	1.5	1.6	0.08	5170.05
31.200	0.001	0.0	1.3	1.5	0.07	5170.04
31.300	0.001	0.0	1.2	1.3	0.06	5170.04
31.400	0.001	0.0	1.1	1.2	0.06	5170.04
31.500	0.001	0.0	1.0	1.1	0.05	5170.03
31.600	0.001	0.0	0.9	1.0	0.05	5170.03
31.700	0.001	0.0	0.8	0.9	0.04	5170.03
31.800	0.001	0.0	0.7	0.8	0.04	5170.02
31.900	0.001	0.0	0.7	0.7	0.03	5170.02
32.000	0.001	0.0	0.6	0.7	0.03	5170.02
32.100	0.001	0.0	0.5	0.6	0.03	5170.02
32.200	0.001	0.0	0.5	0.5	0.03	5170.02
32.300	0.001	0.0	0.4	0.5	0.02	5170.01
32.400	0.001	0.0	0.4	0.4	0.02	5170.01
32.500	0.001	0.0	0.4	0.4	0.02	5170.01
32.600	0.001	0.0	0.3	0.4	0.02	5170.01
32.700	0.001	0.0	0.3	0.3	0.02	5170.01
32.800	0.001	0.0	0.3	0.3	0.01	5170.01

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Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE3-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
32.900	0.001	0.0	0.2	0.31	0.01	5170.01
33.000	0.001	0.0	0.2	0.21	0.01	5170.01
33.100	0.001	0.0	0.2	0.21	0.01	5170.01
33.200	0.001	0.0	0.2	0.21	0.01	5170.01
33.300	0.001	0.0	0.2	0.21	0.01	5170.01
33.400	0.001	0.0	0.1	0.21	0.01	5170.00
33.500	0.001	0.0	0.1	0.11	0.01	5170.00
33.600	0.001	0.0	0.1	0.11	0.01	5170.00
33.700	0.001	0.0	0.1	0.11	0.01	5170.00
33.800	0.001	0.0	0.1	0.11	0.01	5170.00
33.900	0.001	0.0	0.1	0.11	0.00	5170.00
34.000	0.001	0.0	0.1	0.11	0.00	5170.00
34.100	0.001	0.0	0.1	0.11	0.00	5170.00
34.200	0.001	0.0	0.1	0.11	0.00	5170.00
34.300	0.001	0.0	0.1	0.11	0.00	5170.00
34.400	0.001	0.0	0.1	0.11	0.00	5170.00
34.500	0.001	0.0	0.0	0.11	0.00	5170.00
34.600	0.001	0.0	0.0	0.01	0.00	5170.00
34.700	0.001	0.0	0.0	0.01	0.00	5170.00
34.800	0.001	0.0	0.0	0.01	0.00	5170.00
34.900	0.001	0.0	0.0	0.01	0.00	5170.00
35.000	0.001	0.0	0.0	0.01	0.00	5170.00

POUND-2 Version: 5.13 S/N: 1220510336
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***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: C:\POND2\ROSE3-C.PND
Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE3-CO.HYD

Starting Pond W.S. Elevation = 5170.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 31.00 cfs
Peak Outflow = 25.29 cfs
Peak Elevation = 5174.57 ft

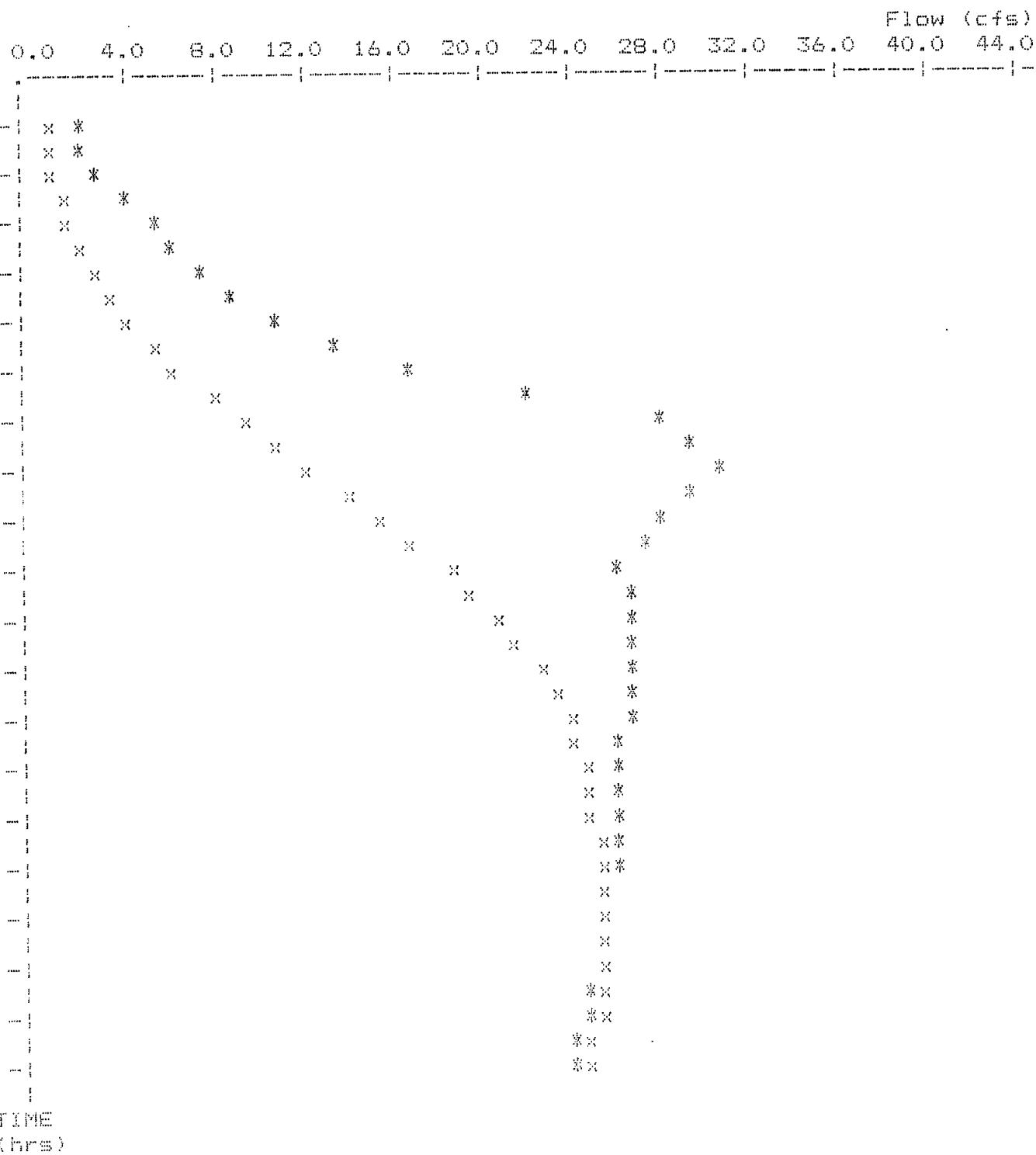
***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.89 ac-ft
Total Storage in Pond	=	0.89 ac-ft

Pond File: C:\POND2\ROSE3-C.PND
 Inflow Hydrograph: C:\POND2\ROSE3-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE3-CO.HYD

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Peak Inflow = 31.00 cfs
 Peak Outflow = 25.29 cfs
 Peak Elevation = 5174.57 ft



* File: C:\POND2\ROSE3-CI.HYD Qmax = 31.0 cfs
 x File: C:\POND2\ROSE3-CO.HYD Qmax = 25.3 cfs

ROSEWOOD WASH DRAINAGE BASIN

* POND #4 LAST POND PRIOR TO GO DOWN SLOPE TO McCARRAN ELV
* 5 YEAR STORM

CODEGA & FRICKE, INC 8-5-90 GMP 1016.1C

Inflow Hydrograph: C:\POND2\ROSE4-5I.HYD
Rating Table file: C:\POND2\ROSE4-5.PND

- - - - INITIAL CONDITIONS - - - -

Elevation = 5155.00 ft

Outflow = 0.00 cfs

Storage = 0.00 ac-ft

GIVEN POND DATA

INTERMEDIATE ROUTING COMPUTATIONS

EL ELEVATION	OUTFLOW	STORAGE	2S/t	2S/t + O
(ft)	(cfs)	(ac-ft)	(cfs)	(cfs)
5155.00	0.0	0.000	0.0	0.0
5155.50	1.1	0.000	0.0	1.1
5156.00	4.0	0.001	0.3	4.3
5156.50	8.2	0.004	0.9	9.1
5157.00	13.7	0.009	2.1	15.8
5157.50	33.4	0.017	4.1	37.5
5158.00	64.3	0.029	7.0	71.3
5158.50	91.9	0.046	11.1	103.0
5159.00	118.1	0.069	16.6	134.7
5159.50	133.1	0.098	23.6	156.7
5160.00	145.4	0.134	32.4	177.8
5160.10	147.7	0.142	34.4	182.1

Time increment (Δt) = 0.100 hrs.

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Pond File: C:\POND2\ROSE4-5.PND
Inflow Hydrograph: C:\POND2\ROSE4-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE4-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
10.000	0.001	---	0.0	0.0	0.00	5155.00
10.100	0.001	0.0	0.0	0.0	0.00	5155.00
10.200	0.001	0.0	0.0	0.0	0.00	5155.00
10.300	0.001	0.0	0.0	0.0	0.00	5155.00
10.400	0.001	0.0	0.0	0.0	0.00	5155.00
10.500	0.001	0.0	0.0	0.0	0.00	5155.00
10.600	0.001	0.0	0.0	0.0	0.00	5155.00
10.700	0.001	0.0	0.0	0.0	0.00	5155.00
10.800	0.001	0.0	0.0	0.0	0.00	5155.00
10.900	0.001	0.0	0.0	0.0	0.00	5155.00
11.000	0.001	0.0	0.0	0.0	0.00	5155.00
11.100	0.001	0.0	0.0	0.0	0.00	5155.00
11.200	0.011	0.0	-0.0	0.0	0.01	5155.00
11.300	0.021	0.0	-0.0	0.0	0.02	5155.01
11.400	0.031	0.1	-0.0	0.0	0.03	5155.01
11.500	0.101	0.1	-0.1	0.1	0.10	5155.04
11.600	0.211	0.3	-0.2	0.2	0.21	5155.09
11.700	0.321	0.5	-0.3	0.3	0.32	5155.14
11.800	1.431	1.8	-1.3	1.4	1.39	5155.55
11.900	1.551	3.0	-1.5	1.6	1.58	5155.58
12.000	2.811	4.4	-2.5	2.9	2.69	5155.77
12.100	5.941	8.8	-5.2	6.2	5.70	5156.20
12.200	9.751	15.7	-8.2	10.5	9.37	5156.61
12.300	11.911	21.7	-10.1	13.4	11.77	5156.82
12.400	11.531	23.4	-10.1	13.3	11.69	5156.82
12.500	10.311	21.6	-9.1	11.8	10.43	5156.70
12.600	10.461	20.8	-9.0	11.7	10.36	5156.70
12.700	9.531	20.0	-8.5	11.0	9.76	5156.64
12.800	9.531	19.1	-8.2	10.5	9.38	5156.61
12.900	9.471	19.0	-8.4	10.8	9.58	5156.63
13.000	9.441	18.9	-8.2	10.5	9.38	5156.61
13.100	9.421	18.9	-8.3	10.6	9.46	5156.61
13.200	9.421	18.8	-8.3	10.5	9.39	5156.61
13.300	8.421	17.8	-7.7	9.6	8.62	5156.54
13.400	8.431	16.9	-7.4	9.2	8.30	5156.51
13.500	8.451	16.9	-7.6	9.5	8.53	5156.53
13.600	8.471	16.9	-7.5	9.3	8.42	5156.52
13.700	8.491	17.0	-7.6	9.5	8.52	5156.53
13.800	8.511	17.0	-7.5	9.4	8.49	5156.53
13.900	8.531	17.0	-7.6	9.5	8.54	5156.53
14.000	8.551	17.1	-7.6	9.5	8.54	5156.53
14.100	8.571	17.1	-7.6	9.5	8.57	5156.53
14.200	8.511	17.1	-7.6	9.5	8.52	5156.53
14.300	8.381	16.9	-7.5	9.3	8.40	5156.52
14.400	8.251	16.8	-7.4	9.2	8.26	5156.51

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Inflow Hydrograph: C:\POND2\ROSE4-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE4-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
14.500	8.121	16.4	-7.3	9.0	8.13	5156.49
14.600	8.021	16.1	-7.2	8.9	8.02	5156.48
14.700	7.941	16.0	-7.1	8.8	7.95	5156.47
14.800	7.881	15.8	-7.1	8.7	7.88	5156.46
14.900	7.831	15.7	-7.0	8.7	7.83	5156.46
15.000	7.781	15.6	-7.0	8.6	7.78	5156.45
15.100	7.751	15.5	-6.9	8.6	7.75	5156.45
15.200	7.711	15.5	-6.9	8.5	7.71	5156.44
15.300	7.681	15.4	-6.9	8.5	7.68	5156.44
15.400	7.641	15.3	-6.9	8.4	7.64	5156.43
15.500	7.601	15.2	-6.8	8.4	7.60	5156.43
15.600	7.561	15.2	-6.8	8.3	7.56	5156.42
15.700	7.521	15.1	-6.7	8.3	7.52	5156.42
15.800	7.471	15.0	-6.7	8.2	7.47	5156.41
15.900	7.431	14.9	-6.7	8.2	7.43	5156.41
16.000	7.381	14.6	-6.6	8.1	7.39	5156.40
16.100	7.321	14.7	-6.6	8.1	7.32	5156.40
16.200	7.271	14.6	-6.5	8.0	7.27	5156.39
16.300	7.211	14.5	-6.5	7.9	7.22	5156.38
16.400	7.151	14.4	-6.4	7.9	7.15	5156.38
16.500	7.091	14.2	-6.4	7.8	7.09	5156.37
16.600	7.031	14.1	-6.3	7.7	7.03	5156.36
16.700	6.971	14.0	-6.3	7.7	6.97	5156.35
16.800	6.901	13.9	-6.2	7.6	6.91	5156.35
16.900	6.831	13.7	-6.2	7.5	6.83	5156.34
17.000	6.761	13.6	-6.1	7.4	6.77	5156.33
17.100	6.681	13.4	-6.0	7.3	6.69	5156.32
17.200	6.601	13.3	-6.0	7.2	6.61	5156.31
17.300	6.511	13.1	-5.9	7.1	6.52	5156.30
17.400	6.421	12.9	-5.8	7.0	6.43	5156.29
17.500	6.331	12.8	-5.7	6.9	6.34	5156.28
17.600	6.241	12.6	-5.7	6.8	6.25	5156.27
17.700	6.151	12.4	-5.6	6.7	6.16	5156.26
17.800	6.041	12.2	-5.5	6.6	6.05	5156.24
17.900	5.941	12.0	-5.4	6.5	5.95	5156.23
18.000	5.831	11.8	-5.3	6.4	5.84	5156.22
18.100	5.731	11.6	-5.2	6.2	5.74	5156.21
18.200	5.621	11.4	-5.1	6.1	5.63	5156.19
18.300	5.511	11.1	-5.0	6.0	5.52	5156.18
18.400	5.401	10.9	-4.9	5.9	5.41	5156.17
18.500	5.291	10.7	-4.8	5.7	5.30	5156.15
18.600	5.171	10.5	-4.7	5.6	5.18	5156.14
18.700	5.061	10.2	-4.7	5.5	5.07	5156.13
18.800	4.951	10.0	-4.6	5.4	4.96	5156.11
18.900	4.841	9.8	-4.5	5.2	4.85	5156.10
19.000	4.741	9.6	-4.4	5.1	4.75	5156.09

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Outflow Hydrograph: C:\POND2\ROSE4-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I ₁ +I ₂ (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
19.100	4.63	9.4	-4.3	5.0	4.64	5156.08
19.200	4.51	9.1	-4.2	4.9	4.52	5156.06
19.300	4.40	8.9	-4.1	4.7	4.41	5156.05
19.400	4.29	8.7	-4.0	4.6	4.30	5156.04
19.500	4.18	8.5	-3.9	4.5	4.19	5156.02
19.600	4.07	8.3	-3.8	4.3	4.08	5156.01
19.700	3.97	8.0	-3.7	4.2	3.98	5156.00
19.800	3.87	7.8	-3.6	4.1	3.87	5155.98
19.900	3.76	7.7	-3.5	4.0	3.78	5155.96
20.000	3.68	7.5	-3.4	3.9	3.68	5155.95
20.100	3.59	7.3	-3.4	3.8	3.59	5155.93
20.200	3.49	7.1	-3.3	3.7	3.49	5155.91
20.300	3.40	6.9	-3.2	3.6	3.40	5155.90
20.400	3.30	6.7	-3.1	3.5	3.30	5155.88
20.500	3.21	6.5	-3.0	3.4	3.21	5155.86
20.600	3.13	6.3	-2.9	3.3	3.13	5155.85
20.700	3.04	6.2	-2.9	3.2	3.04	5155.84
20.800	2.97	6.0	-2.8	3.2	2.97	5155.82
20.900	2.90	5.9	-2.7	3.1	2.90	5155.81
21.000	2.83	5.7	-2.7	3.0	2.83	5155.80
21.100	2.78	5.6	-2.6	2.9	2.78	5155.79
21.200	2.72	5.5	-2.6	2.9	2.72	5155.78
21.300	2.67	5.4	-2.5	2.8	2.67	5155.77
21.400	2.62	5.3	-2.5	2.8	2.62	5155.76
21.500	2.57	5.2	-2.4	2.7	2.57	5155.75
21.600	2.53	5.1	-2.4	2.7	2.53	5155.75
21.700	2.49	5.0	-2.4	2.6	2.49	5155.74
21.800	2.45	4.9	-2.3	2.6	2.45	5155.73
21.900	2.42	4.9	-2.3	2.6	2.42	5155.73
22.000	2.39	4.8	-2.3	2.5	2.39	5155.72
22.100	2.35	4.7	-2.2	2.5	2.35	5155.72
22.200	2.33	4.7	-2.2	2.5	2.33	5155.71
22.300	2.30	4.6	-2.2	2.4	2.30	5155.71
22.400	2.28	4.6	-2.2	2.4	2.26	5155.70
22.500	2.26	4.5	-2.1	2.4	2.26	5155.70
22.600	2.24	4.5	-2.1	2.4	2.24	5155.70
22.700	2.22	4.5	-2.1	2.3	2.22	5155.69
22.800	2.20	4.4	-2.1	2.3	2.20	5155.69
22.900	2.18	4.4	-2.1	2.3	2.18	5155.69
23.000	2.17	4.4	-2.1	2.3	2.17	5155.68
23.100	2.14	4.3	-2.0	2.3	2.16	5155.68
23.200	2.14	4.3	-2.0	2.3	2.14	5155.68
23.300	2.13	4.3	-2.0	2.2	2.13	5155.68
23.400	2.12	4.3	-2.0	2.2	2.12	5155.68
23.500	2.11	4.2	-2.0	2.2	2.11	5155.67
23.600	2.10	4.2	-2.0	2.2	2.10	5155.67

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Inflow Hydrograph: C:\POND2\ROSE4-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE4-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
23.700	2.091	4.2	-2.0	2.21	2.09	5155.67
23.800	2.091	4.2	-2.0	2.21	2.09	5155.67
23.900	2.081	4.2	-2.0	2.21	2.08	5155.67
24.000	2.071	4.2	-2.0	2.21	2.07	5155.67
24.100	2.051	4.1	-1.9	2.21	2.05	5155.66
24.200	2.001	4.1	-1.9	2.11	2.00	5155.66
24.300	1.951	4.0	-1.9	2.01	1.95	5155.65
24.400	1.891	3.8	-1.8	2.01	1.89	5155.64
24.500	1.811	3.7	-1.7	1.91	1.81	5155.62
24.600	1.741	3.6	-1.7	1.81	1.74	5155.61
24.700	1.661	3.4	-1.6	1.71	1.66	5155.60
24.800	1.581	3.2	-1.5	1.71	1.58	5155.58
24.900	1.501	3.1	-1.4	1.61	1.50	5155.57
25.000	1.421	2.9	-1.4	1.51	1.42	5155.56
25.100	1.341	2.6	-1.3	1.41	1.34	5155.54
25.200	1.261	2.6	-1.2	1.31	1.26	5155.53
25.300	1.191	2.5	-1.2	1.21	1.19	5155.52
25.400	1.121	2.3	-1.1	1.21	1.12	5155.50
25.500	1.051	2.2	-1.0	1.11	1.05	5155.48
25.600	0.981	2.0	-1.0	1.01	0.96	5155.45
25.700	0.921	1.9	-0.9	0.91	0.92	5155.42
25.800	0.861	1.8	-0.8	0.91	0.86	5155.39
25.900	0.811	1.7	-0.8	0.81	0.81	5155.37
26.000	0.731	1.6	-0.8	0.81	0.78	5155.35
26.100	0.761	1.5	-0.7	0.81	0.76	5155.35
26.200	0.741	1.5	-0.7	0.81	0.74	5155.34
26.300	0.721	1.5	-0.7	0.71	0.72	5155.33
26.400	0.701	1.4	-0.7	0.71	0.70	5155.32
26.500	0.671	1.4	-0.7	0.71	0.67	5155.30
26.600	0.651	1.3	-0.6	0.71	0.65	5155.30
26.700	0.631	1.3	-0.6	0.61	0.63	5155.29
26.800	0.611	1.2	-0.6	0.61	0.61	5155.28
26.900	0.591	1.2	-0.6	0.61	0.59	5155.27
27.000	0.571	1.2	-0.6	0.61	0.57	5155.26
27.100	0.551	1.1	-0.5	0.61	0.55	5155.25
27.200	0.531	1.1	-0.5	0.51	0.53	5155.24
27.300	0.511	1.0	-0.5	0.51	0.51	5155.23
27.400	0.491	1.0	-0.5	0.51	0.49	5155.22
27.500	0.481	1.0	-0.5	0.51	0.48	5155.22
27.600	0.461	0.9	-0.4	0.51	0.46	5155.21
27.700	0.441	0.9	-0.4	0.51	0.44	5155.20
27.800	0.431	0.9	-0.4	0.41	0.43	5155.20
27.900	0.411	0.8	-0.4	0.41	0.41	5155.19
28.000	0.391	0.8	-0.4	0.41	0.39	5155.18
28.100	0.381	0.8	-0.4	0.41	0.38	5155.17
28.200	0.361	0.7	-0.4	0.41	0.36	5155.16

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 Inflow Hydrograph: C:\POND2\ROSE4-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE4-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
28.300	0.35	0.7	-0.3	0.4	0.35	5155.16
28.400	0.34	0.7	-0.3	0.4	0.34	5155.15
28.500	0.32	0.7	-0.3	0.3	0.32	5155.15
28.600	0.31	0.6	-0.3	0.3	0.31	5155.14
28.700	0.30	0.6	-0.3	0.3	0.30	5155.14
28.800	0.29	0.6	-0.3	0.3	0.29	5155.13
28.900	0.28	0.6	-0.3	0.3	0.28	5155.13
29.000	0.27	0.6	-0.3	0.3	0.27	5155.12
29.100	0.26	0.5	-0.3	0.3	0.26	5155.12
29.200	0.25	0.5	-0.2	0.3	0.25	5155.11
29.300	0.24	0.5	-0.2	0.2	0.24	5155.11
29.400	0.23	0.5	-0.2	0.2	0.23	5155.10
29.500	0.22	0.5	-0.2	0.2	0.22	5155.10
29.600	0.21	0.4	-0.2	0.2	0.21	5155.10
29.700	0.20	0.4	-0.2	0.2	0.20	5155.09
29.800	0.19	0.4	-0.2	0.2	0.19	5155.09
29.900	0.18	0.4	-0.2	0.2	0.18	5155.08
30.000	0.18	0.4	-0.2	0.2	0.18	5155.08
30.100	0.16	0.3	-0.2	0.2	0.16	5155.07
30.200	0.15	0.3	-0.1	0.2	0.15	5155.07
30.300	0.14	0.3	-0.1	0.1	0.14	5155.06
30.400	0.12	0.3	-0.1	0.1	0.12	5155.05
30.500	0.11	0.2	-0.1	0.1	0.11	5155.05
30.600	0.10	0.2	-0.1	0.1	0.10	5155.05
30.700	0.09	0.2	-0.1	0.1	0.09	5155.04
30.800	0.08	0.2	-0.1	0.1	0.08	5155.04
30.900	0.07	0.2	-0.1	0.1	0.07	5155.03
31.000	0.07	0.1	-0.1	0.1	0.07	5155.03
31.100	0.06	0.1	-0.1	0.1	0.06	5155.03
31.200	0.06	0.1	-0.1	0.1	0.06	5155.03
31.300	0.05	0.1	-0.0	0.1	0.05	5155.02
31.400	0.05	0.1	-0.0	0.1	0.04	5155.02
31.500	0.04	0.1	-0.0	0.0	0.04	5155.02
31.600	0.04	0.1	-0.0	0.0	0.03	5155.01
31.700	0.03	0.1	-0.0	0.0	0.03	5155.01
31.800	0.03	0.1	-0.0	0.0	0.03	5155.01
31.900	0.03	0.1	-0.0	0.0	0.03	5155.01
32.000	0.02	0.1	-0.0	0.0	0.02	5155.01
32.100	0.02	0.0	-0.0	0.0	0.02	5155.01
32.200	0.02	0.0	-0.0	0.0	0.02	5155.01
32.300	0.02	0.0	-0.0	0.0	0.02	5155.01
32.400	0.02	0.0	-0.0	0.0	0.02	5155.01
32.500	0.02	0.0	-0.0	0.0	0.02	5155.01
32.600	0.01	0.0	-0.0	0.0	0.01	5155.00
32.700	0.01	0.0	-0.0	0.0	0.01	5155.00
32.800	0.01	0.0	-0.0	0.0	0.01	5155.00

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Inflow Hydrograph: C:\POND2\ROSE4-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE4-5O.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
32.900	0.011	0.011	-0.0	0.011	0.011	5155.00
33.000	0.011	0.011	-0.0	0.011	0.011	5155.00
33.100	0.011	0.011	-0.0	0.011	0.011	5155.00
33.200	0.011	0.011	-0.0	0.011	0.011	5155.00
33.300	0.011	0.011	-0.0	0.011	0.011	5155.00
33.400	0.011	0.011	-0.0	0.011	0.011	5155.00
33.500	0.011	0.011	-0.0	0.011	0.011	5155.00
33.600	0.011	0.011	-0.0	0.011	0.011	5155.00
33.700	0.001	0.001	-0.0	0.001	0.001	5155.00
33.800	0.001	0.001	-0.0	-0.001	0.001	5155.00
33.900	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.000	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.100	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.200	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.300	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.400	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.500	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.600	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.700	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.800	0.001	0.001	-0.0	-0.001	0.001	5155.00
34.900	0.001	0.001	-0.0	-0.001	0.001	5155.00
35.000	0.001	0.001	-0.0	-0.001	0.001	5155.00

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***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: C:\POND2\ROSE4-5.PND
Inflow Hydrograph: C:\POND2\ROSE4-5I.HYD
Outflow Hydrograph: C:\POND2\ROSE4-5O.HYD

Starting Pond W.S. Elevation = 5155.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 11.91 cfs
Peak Outflow = 11.77 cfs
Peak Elevation = 5156.82 ft

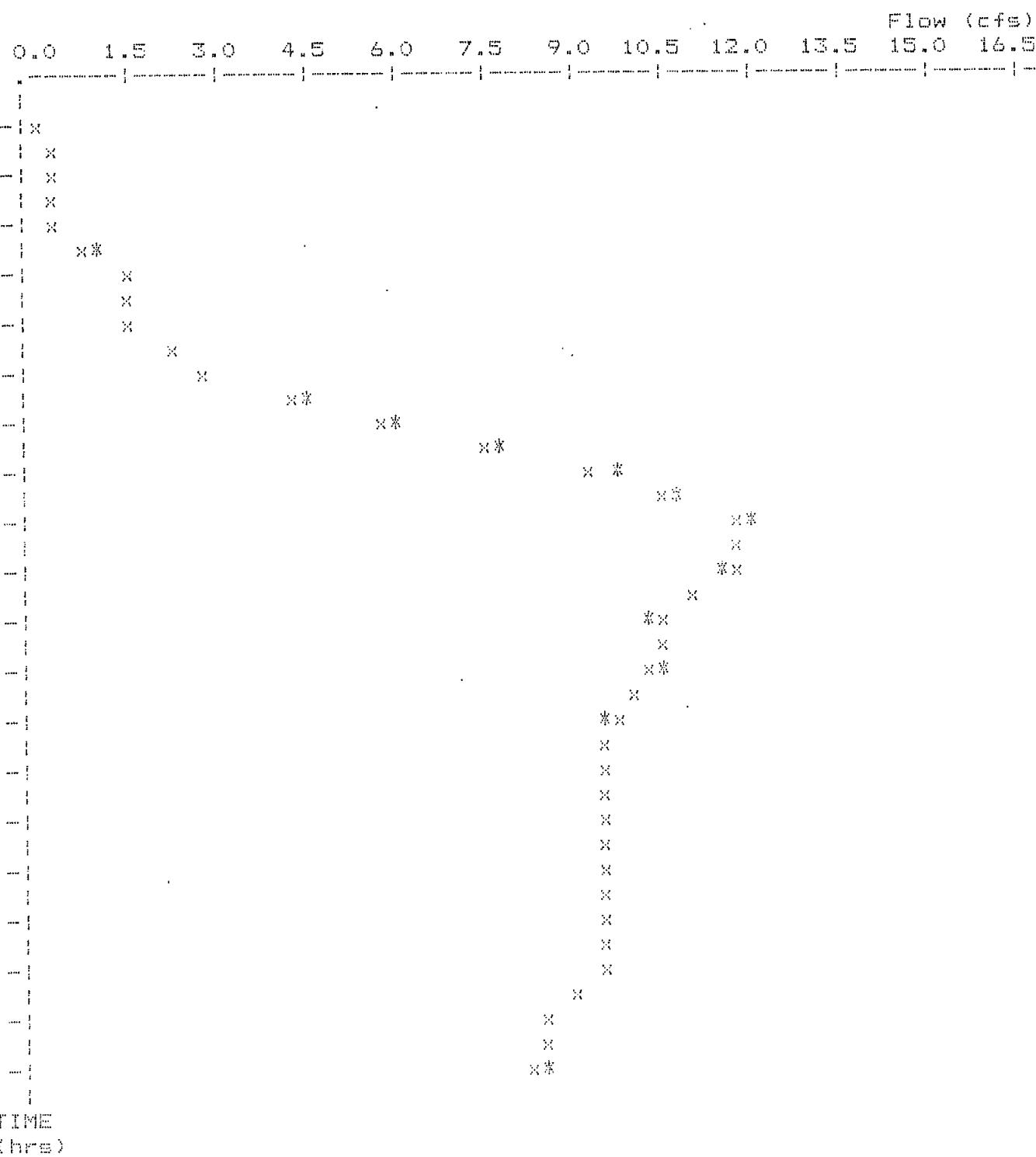
***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.01 ac-ft
<hr/>		
Total Storage in Pond	=	0.01 ac-ft

Pond File: C:\POND2\ROSE4-5.PND
 Inflow Hydrograph: C:\POND2\ROSE4-5I.HYD
 Outflow Hydrograph: C:\POND2\ROSE4-5O.HYD

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Peak Inflow = 11.91 cfs
 Peak Outflow = 11.77 cfs
 Peak Elevation = 5156.82 ft



* File: C:\POND2\ROSE4-5I.HYD Qmax = 11.9 cfs
 X File: C:\POND2\ROSE4-5O.HYD Qmax = 11.7 cfs

* * * * *

ROSEWOOD WASH DRAINAGE BASIN

* POND #4 LAST POND PRIOR TO GO DOWN SLOPE TO McCARRAN BLVD
* 100 YEAR STORM

* CODEGA & FRICKE, INC 8-5-90 GMP 1016.10

* * * * *

Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD

Rating Table file: C:\POND2\ROSE4-C.PND

----INITIAL CONDITIONS----

Elevation = 5155.00 ft

Outflow = 0.00 cfs

Storage = 0.00 ac-ft

GIVEN POND DATA

ELEVATION	OUTFLOW	STORAGE
(ft)	(cfs)	(ac-ft)
5155.00	0.0	0.000
5155.50	1.1	0.000
5156.00	4.0	0.001
5156.50	8.2	0.004
5157.00	13.7	0.009
5157.50	33.4	0.017
5158.00	64.3	0.029
5158.50	91.9	0.046
5159.00	118.1	0.069
5159.50	133.1	0.098
5160.00	145.4	0.134
5160.10	147.7	0.142

INTERMEDIATE ROUTING COMPUTATIONS

	2S/t	2S/t + O
	(cfs)	(cfs)
	0.0	0.0
	0.0	1.1
	0.3	4.3
	0.9	9.1
	2.1	15.3
	4.1	37.5
	7.0	71.3
	11.1	103.0
	16.6	134.7
	23.6	156.7
	32.4	177.8
	34.4	182.1

Time increment (t) = 0.100 hrs.

Pond File: C:\POND2\ROSE4-C.PND
 Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE4-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
10.000	0.001	---	0.0	0.0	0.00	5155.00
10.100	0.001	0.0	0.0	0.0	0.00	5155.00
10.200	0.001	0.0	0.0	0.0	0.00	5155.00
10.300	0.001	0.0	0.0	0.0	0.00	5155.00
10.400	0.001	0.0	0.0	0.0	0.00	5155.00
10.500	0.001	0.0	0.0	0.0	0.00	5155.00
10.600	0.001	0.0	0.0	0.0	0.00	5155.00
10.700	0.001	0.0	0.0	0.0	0.00	5155.00
10.800	0.001	0.0	0.0	0.0	0.00	5155.00
10.900	0.001	0.0	0.0	0.0	0.00	5155.00
11.000	0.051	0.1	-0.0	0.1	0.05	5155.02
11.100	0.151	0.2	-0.1	0.2	0.15	5155.07
11.200	1.251	1.4	-1.2	1.3	1.22	5155.52
11.300	1.351	2.6	-1.3	1.4	1.37	5155.55
11.400	1.461	2.8	-1.4	1.5	1.43	5155.56
11.500	1.581	3.0	-1.5	1.7	1.59	5155.59
11.600	1.741	3.3	-1.6	1.8	1.72	5155.61
11.700	3.341	5.1	-3.0	3.4	3.24	5155.87
11.800	5.401	6.7	-4.8	5.7	5.25	5156.15
11.900	7.881	13.3	-6.9	8.5	7.67	5156.44
12.000	13.141	21.0	-10.6	14.1	12.36	5156.88
12.100	22.391	35.5	-19.1	24.9	22.04	5157.21
12.200	26.251	48.6	-22.9	29.5	26.19	5157.32
12.300	23.521	49.8	-20.7	26.9	23.82	5157.26
12.400	22.441	46.0	-19.4	25.2	22.29	5157.22
12.500	23.721	46.2	-20.6	26.8	23.72	5157.25
12.600	24.471	48.2	-21.3	27.5	24.40	5157.27
12.700	25.701	50.2	-22.4	28.9	25.65	5157.30
12.800	26.411	52.1	-23.0	29.7	26.39	5157.32
12.900	26.861	53.3	-23.4	30.2	26.84	5157.33
13.000	26.161	53.0	-22.9	29.6	26.24	5157.32
13.100	26.291	52.5	-22.9	29.5	26.21	5157.32
13.200	26.271	52.6	-23.0	29.7	26.34	5157.32
13.300	26.121	52.4	-22.8	29.4	26.08	5157.31
13.400	25.861	52.0	-22.6	29.2	25.92	5157.31
13.500	25.511	51.4	-22.2	26.8	25.49	5157.30
13.600	24.961	50.5	-21.8	28.2	25.02	5157.29
13.700	24.261	49.2	-21.1	27.4	24.27	5157.27
13.800	23.591	47.9	-20.6	26.7	23.64	5157.25
13.900	22.921	46.5	-19.9	25.9	22.94	5157.23
14.000	22.281	45.2	-17.4	25.3	22.32	5157.22
14.100	21.661	43.9	-18.8	24.6	21.68	5157.20
14.200	21.071	42.7	-18.3	23.9	21.11	5157.19
14.300	20.501	41.6	-17.8	23.3	20.52	5157.17
14.400	19.961	40.5	-17.3	22.7	19.99	5157.16

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Pond File: C:\POND2\ROSE4-C.PND
Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE4-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
14.500	19.53	39.5	-16.9	22.2	19.54	5157.15
14.600	19.11	38.6	-16.5	21.8	19.14	5157.14
14.700	18.70	37.8	-16.1	21.3	18.72	5157.13
14.800	18.30	37.0	-15.8	20.9	18.32	5157.12
14.900	17.93	36.2	-15.4	20.4	17.94	5157.11
15.000	17.58	35.5	-15.1	20.1	17.60	5157.10
15.100	17.23	34.8	-14.8	19.7	17.26	5157.09
15.200	16.95	34.2	-14.6	19.4	16.97	5157.08
15.300	15.67	32.6	-13.5	18.1	15.77	5157.05
15.400	15.41	31.1	-13.1	17.6	15.35	5157.04
15.500	15.18	30.6	-13.0	17.5	15.25	5157.04
15.600	14.96	30.1	-12.7	17.1	14.92	5157.03
15.700	14.75	29.7	-12.6	17.0	14.80	5157.03
15.800	14.60	29.4	-12.4	16.7	14.57	5157.02
15.900	14.46	29.1	-12.3	16.6	14.50	5157.02
16.000	14.31	28.8	-12.2	16.4	14.30	5157.02
16.100	14.16	28.5	-12.1	16.3	14.19	5157.01
16.200	14.00	28.2	-11.9	16.1	13.99	5157.01
16.300	13.85	27.9	-11.8	16.0	13.87	5157.00
16.400	13.69	27.5	-11.6	15.8	13.69	5157.00
16.500	13.54	27.2	-11.5	15.6	13.57	5156.99
16.600	13.39	26.9	-11.4	15.4	13.40	5156.97
16.700	13.25	26.6	-11.3	15.2	13.27	5156.96
16.800	13.10	26.4	-11.2	15.1	13.11	5156.95
16.900	12.96	26.1	-11.1	14.9	12.98	5156.93
17.000	12.82	25.8	-10.9	14.7	12.84	5156.92
17.100	12.69	25.5	-10.8	14.6	12.70	5156.91
17.200	12.55	25.2	-10.7	14.4	12.57	5156.90
17.300	12.42	25.0	-10.6	14.2	12.43	5156.88
17.400	12.29	24.7	-10.5	14.1	12.31	5156.87
17.500	12.16	24.5	-10.4	13.9	12.17	5156.86
17.600	12.05	24.2	-10.3	13.8	12.06	5156.85
17.700	11.95	24.0	-10.3	13.7	11.96	5156.84
17.800	11.84	23.8	-10.2	13.5	11.85	5156.83
17.900	11.74	23.6	-10.1	13.4	11.75	5156.82
18.000	11.63	23.4	-10.0	13.3	11.64	5156.81
18.100	11.52	23.2	-9.9	13.1	11.53	5156.80
18.200	11.40	22.9	-9.8	13.0	11.41	5156.79
18.300	11.29	22.7	-9.7	12.9	11.30	5156.78
18.400	11.18	22.5	-9.7	12.7	11.19	5156.77
18.500	11.02	22.2	-9.5	12.5	11.04	5156.76
18.600	10.79	21.8	-9.4	12.3	10.82	5156.74
18.700	10.59	21.4	-9.2	12.0	10.61	5156.72
18.800	10.40	21.0	-9.1	11.8	10.42	5156.70
18.900	10.21	20.6	-8.9	11.5	10.23	5156.68
19.000	10.01	20.2	-8.8	11.3	10.03	5156.67

Pond File: C:\POND2\ROSE4-C.PND
 Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE4-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I _{i+1/2} (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
19.100	9.841	19.9	-8.6	11.1	9.86	5156.65
19.200	9.671	19.5	-8.5	10.91	9.69	5156.64
19.300	9.511	19.2	-8.4	10.71	9.53	5156.62
19.400	9.361	18.9	-8.2	10.51	9.38	5156.61
19.500	9.221	18.6	-8.1	10.31	9.23	5156.59
19.600	9.071	18.3	-8.0	10.21	9.09	5156.58
19.700	8.931	18.0	-7.9	10.01	8.94	5156.57
19.800	8.781	17.7	-7.8	9.81	8.80	5156.55
19.900	8.651	17.4	-7.7	9.61	8.66	5156.54
20.000	8.531	17.2	-7.6	9.51	8.54	5156.53
20.100	8.421	17.0	-7.5	9.41	8.43	5156.52
20.200	8.321	16.7	-7.4	9.21	8.33	5156.51
20.300	8.181	16.5	-7.3	9.11	8.20	5156.50
20.400	8.061	16.2	-7.2	8.91	8.06	5156.48
20.500	7.941	16.0	-7.1	8.81	7.95	5156.47
20.600	7.831	15.8	-7.0	8.71	7.83	5156.46
20.700	7.721	15.6	-6.9	8.51	7.73	5156.44
20.800	7.611	15.3	-6.8	8.41	7.62	5156.43
20.900	7.511	15.1	-6.7	8.31	7.52	5156.42
21.000	7.401	14.9	-6.6	8.21	7.41	5156.41
21.100	7.291	14.7	-6.6	8.01	7.30	5156.39
21.200	7.191	14.5	-6.5	7.91	7.20	5156.38
21.300	7.091	14.3	-6.4	7.81	7.10	5156.37
21.400	6.991	14.1	-6.3	7.71	7.00	5156.36
21.500	6.891	13.9	-6.2	7.61	6.90	5156.34
21.600	6.801	13.7	-6.1	7.51	6.81	5156.33
21.700	6.701	13.5	-6.1	7.41	6.71	5156.32
21.800	6.601	13.3	-6.0	7.21	6.61	5156.31
21.900	6.501	13.1	-5.9	7.11	6.51	5156.30
22.000	6.391	12.9	-5.8	7.01	6.40	5156.29
22.100	6.291	12.7	-5.7	6.91	6.30	5156.27
22.200	6.191	12.5	-5.6	6.81	6.20	5156.26
22.300	6.081	12.3	-5.5	6.71	6.09	5156.25
22.400	5.971	12.1	-5.4	6.51	5.98	5156.24
22.500	5.851	11.8	-5.3	6.41	5.86	5156.22
22.600	5.741	11.6	-5.2	6.31	5.75	5156.21
22.700	5.631	11.4	-5.1	6.11	5.64	5156.20
22.800	5.521	11.2	-5.0	6.01	5.53	5156.19
22.900	5.411	10.9	-4.9	5.91	5.42	5156.17
23.000	5.291	10.7	-4.8	5.71	5.30	5156.15
23.100	5.171	10.5	-4.7	5.61	5.18	5156.14
23.200	5.061	10.2	-4.7	5.51	5.07	5156.13
23.300	4.951	10.0	-4.6	5.41	4.96	5156.11
23.400	4.841	9.8	-4.5	5.21	4.85	5156.10
23.500	4.731	9.6	-4.4	5.11	4.74	5156.09
23.600	4.621	9.4	-4.3	5.01	4.63	5156.07

Pond File: C:\POND2\ROSE4-C.PND
 Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE4-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
23.700	4.50	9.1	-4.2	4.8	4.51	5156.06
23.800	4.39	8.9	-4.1	4.7	4.40	5156.05
23.900	4.28	8.7	-4.0	4.6	4.29	5156.03
24.000	4.17	8.4	-3.9	4.5	4.18	5156.02
24.100	4.05	8.2	-3.8	4.3	4.06	5156.01
24.200	3.92	8.0	-3.7	4.2	3.92	5155.99
24.300	3.78	7.7	-3.5	4.0	3.79	5155.96
24.400	3.62	7.4	-3.4	3.9	3.63	5155.94
24.500	3.45	7.1	-3.2	3.7	3.46	5155.91
24.600	3.28	6.7	-3.1	3.5	3.29	5155.88
24.700	3.10	6.4	-2.9	3.3	3.11	5155.85
24.800	2.93	6.0	-2.8	3.1	2.94	5155.82
24.900	2.77	5.7	-2.6	2.9	2.78	5155.79
25.000	2.62	5.4	-2.5	2.8	2.63	5155.76
25.100	2.47	5.1	-2.3	2.6	2.48	5155.74
25.200	2.32	4.8	-2.2	2.5	2.33	5155.71
25.300	2.17	4.5	-2.1	2.3	2.18	5155.69
25.400	2.03	4.2	-1.9	2.1	2.03	5155.66
25.500	1.89	3.9	-1.8	2.0	1.90	5155.64
25.600	1.76	3.7	-1.7	1.8	1.76	5155.61
25.700	1.64	3.4	-1.6	1.7	1.65	5155.59
25.800	1.52	3.2	-1.5	1.6	1.52	5155.57
25.900	1.42	2.9	-1.4	1.5	1.42	5155.56
26.000	1.31	2.7	-1.3	1.4	1.32	5155.54
26.100	1.22	2.5	-1.2	1.3	1.22	5155.52
26.200	1.12	2.3	-1.1	1.2	1.13	5155.50
26.300	1.04	2.2	-1.0	1.1	1.04	5155.47
26.400	0.95	2.0	-0.9	1.0	0.95	5155.43
26.500	0.88	1.8	-0.9	0.9	0.88	5155.40
26.600	0.81	1.7	-0.8	0.8	0.81	5155.37
26.700	0.78	1.6	-0.8	0.8	0.78	5155.35
26.800	0.76	1.5	-0.7	0.8	0.76	5155.35
26.900	0.73	1.5	-0.7	0.7	0.73	5155.33
27.000	0.71	1.4	-0.7	0.7	0.71	5155.32
27.100	0.68	1.4	-0.7	0.7	0.68	5155.31
27.200	0.66	1.3	-0.6	0.7	0.66	5155.30
27.300	0.64	1.3	-0.6	0.7	0.64	5155.29
27.400	0.62	1.3	-0.6	0.6	0.62	5155.28
27.500	0.60	1.2	-0.6	0.6	0.60	5155.27
27.600	0.58	1.2	-0.6	0.6	0.58	5155.26
27.700	0.55	1.1	-0.5	0.5	0.55	5155.25
27.800	0.53	1.1	-0.5	0.5	0.53	5155.24
27.900	0.52	1.1	-0.5	0.5	0.52	5155.24
28.000	0.50	1.0	-0.5	0.5	0.50	5155.23
28.100	0.48	1.0	-0.5	0.5	0.48	5155.22
28.200	0.46	0.9	-0.4	0.5	0.46	5155.21

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Pond File: C:\POND2\ROSE4-C.PND
Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE4-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	Ii+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
28.300	0.441	0.9	-0.4	0.51	0.44	5155.20
28.400	0.431	0.9	-0.4	0.41	0.43	5155.20
28.500	0.411	0.8	-0.4	0.41	0.41	5155.19
28.600	0.391	0.8	-0.4	0.41	0.39	5155.18
28.700	0.381	0.8	-0.4	0.41	0.38	5155.17
28.800	0.361	0.7	-0.4	0.41	0.36	5155.16
28.900	0.351	0.7	-0.3	0.41	0.35	5155.16
29.000	0.341	0.7	-0.3	0.41	0.34	5155.15
29.100	0.321	0.7	-0.3	0.31	0.32	5155.15
29.200	0.311	0.6	-0.3	0.31	0.31	5155.14
29.300	0.301	0.6	-0.3	0.31	0.30	5155.14
29.400	0.291	0.6	-0.3	0.31	0.29	5155.13
29.500	0.281	0.6	-0.3	0.31	0.28	5155.13
29.600	0.261	0.5	-0.3	0.31	0.26	5155.12
29.700	0.251	0.5	-0.2	0.31	0.25	5155.11
29.800	0.241	0.5	-0.2	0.21	0.24	5155.11
29.900	0.231	0.5	-0.2	0.21	0.23	5155.10
30.000	0.221	0.5	-0.2	0.21	0.22	5155.10
30.100	0.211	0.4	-0.2	0.21	0.21	5155.09
30.200	0.191	0.4	-0.2	0.21	0.19	5155.08
30.300	0.171	0.4	-0.2	0.21	0.17	5155.08
30.400	0.161	0.3	-0.2	0.21	0.16	5155.07
30.500	0.141	0.3	-0.1	0.11	0.14	5155.06
30.600	0.131	0.3	-0.1	0.11	0.13	5155.06
30.700	0.121	0.3	-0.1	0.11	0.12	5155.05
30.800	0.101	0.2	-0.1	0.11	0.10	5155.05
30.900	0.091	0.2	-0.1	0.11	0.09	5155.04
31.000	0.091	0.2	-0.1	0.11	0.09	5155.04
31.100	0.081	0.2	-0.1	0.11	0.08	5155.04
31.200	0.071	0.2	-0.1	0.11	0.07	5155.03
31.300	0.061	0.1	-0.1	0.11	0.06	5155.03
31.400	0.061	0.1	-0.1	0.11	0.06	5155.03
31.500	0.051	0.1	-0.0	0.11	0.05	5155.02
31.600	0.051	0.1	-0.0	0.11	0.05	5155.02
31.700	0.041	0.1	-0.0	0.01	0.04	5155.02
31.800	0.041	0.1	-0.0	0.01	0.04	5155.02
31.900	0.031	0.1	-0.0	0.01	0.03	5155.01
32.000	0.031	0.1	-0.0	0.01	0.03	5155.01
32.100	0.031	0.1	-0.0	0.01	0.03	5155.01
32.200	0.031	0.1	-0.0	0.01	0.02	5155.01
32.300	0.021	0.1	-0.0	0.01	0.02	5155.01
32.400	0.021	0.0	-0.0	0.01	0.02	5155.01
32.500	0.021	0.0	-0.0	0.01	0.02	5155.01
32.600	0.021	0.0	-0.0	0.01	0.02	5155.01
32.700	0.021	0.0	-0.0	0.01	0.02	5155.01
32.800	0.011	0.0	-0.0	0.01	0.01	5155.00

Pond File: C:\POND2\ROSE4-C.PND
Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE4-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
32.900	0.01	0.0	-0.0	0.0	0.01	5155.00
33.000	0.01	0.0	-0.0	0.0	0.01	5155.00
33.100	0.01	0.0	-0.0	0.0	0.01	5155.00
33.200	0.01	0.0	-0.0	0.0	0.01	5155.00
33.300	0.01	0.0	-0.0	0.0	0.01	5155.00
33.400	0.01	0.0	-0.0	0.0	0.01	5155.00
33.500	0.01	0.0	-0.0	0.0	0.01	5155.00
33.600	0.01	0.0	-0.0	0.0	0.01	5155.00
33.700	0.01	0.0	-0.0	0.0	0.01	5155.00
33.800	0.01	0.0	-0.0	0.0	0.01	5155.00
33.900	0.001	0.0	-0.0	0.0	0.00	5155.00
34.000	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.100	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.200	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.300	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.400	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.500	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.600	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.700	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.800	0.001	0.0	-0.0	-0.0	0.00	5155.00
34.900	0.001	0.0	-0.0	-0.0	0.00	5155.00
35.000	0.001	0.0	-0.0	-0.0	0.00	5155.00

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***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: C:\POND2\ROSE4-C.PND
Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD
Outflow Hydrograph: C:\POND2\ROSE4-CO.HYD

Starting Pond W.S. Elevation = 5155.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 26.86 cfs
Peak Outflow = 26.84 cfs
Peak Elevation = 5157.33 ft

***** Summary of Approximate Peak Storage *****

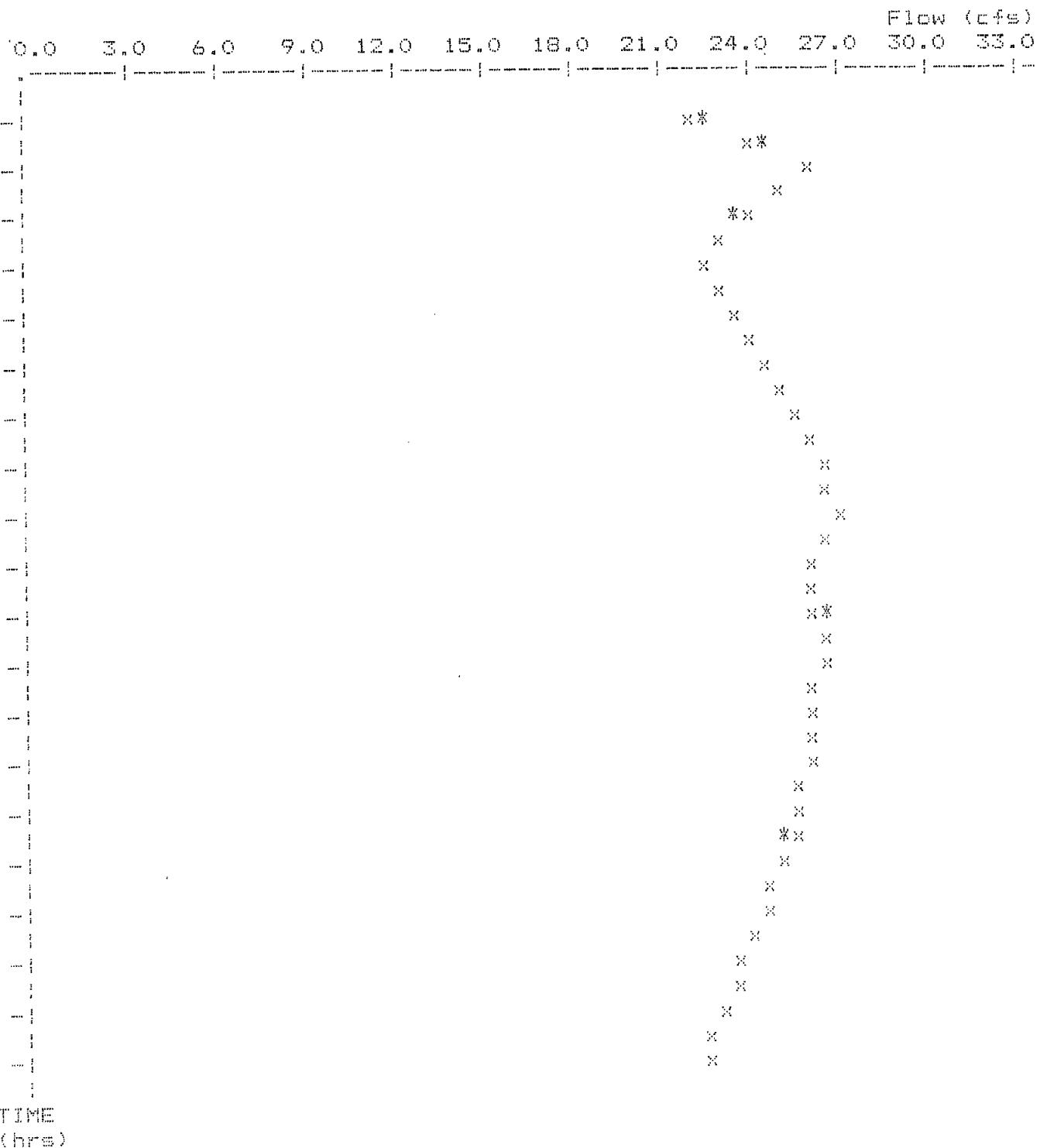
Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.01 ac-ft
Total Storage in Pond	=	0.01 ac-ft

Pond File: C:\POND2\ROSE4-C.PND
 Inflow Hydrograph: C:\POND2\ROSE4-CI.HYD
 Outflow Hydrograph: C:\POND2\ROSE4-CO.HYD

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Peak Inflow = 26.86 cfs
 Peak Outflow = 26.84 cfs
 Peak Elevation = 5157.33 ft



* File: C:\POND2\ROSE4-CI.HYD Qmax = 26.9 cfs
 x File: C:\POND2\ROSE4-CO.HYD Qmax = 26.8 cfs

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* ROSEWOOD WASH DRAINAGE BASIN

* POND #5 POND IN EASTGATE AT TOP OF SLOPE

* 5 YEAR STORM

* CODEGA & FRICKE, INC 8-5-90 GMP 1016.10

Inflow Hydrograph: C:\POND2\ROSE5-5.HYD

Rating Table file: C:\POND2\ROSE5-5.PND

-----INITIAL CONDITIONS-----

Elevation = 5146.00 ft

Outflow = 0.00 cfs

Storage = 0.00 ac-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
5146.00	0.0	0.000
5146.50	1.0	0.020
5147.00	3.2	0.045
5147.50	6.7	0.075
5148.00	10.6	0.112
5148.50	15.8	0.154
5149.00	16.5	0.204
5149.50	18.7	0.261
5150.00	20.7	0.326
5150.50	22.6	0.399
5151.00	24.3	0.477
5151.50	25.9	0.560
5152.00	27.4	0.651
5152.50	28.8	0.747
5153.00	43.9	0.850
5153.50	70.4	0.960
5154.00	94.7	1.077
5154.50	118.2	1.199
5155.00	130.7	1.324
5155.10	132.8	1.350

INTERMEDIATE ROUTING COMPUTATIONS

	2S/t (cfs)	2S/t + O (cfs)
	0.0	0.0
	4.7	5.9
	10.9	14.1
	18.2	24.9
	27.0	37.6
	37.3	51.1
	49.3	65.8
	63.2	81.9
	79.0	99.7
	96.5	119.1
	115.3	139.6
	135.6	161.5
	157.4	184.8
	180.8	209.6
	205.7	249.6
	232.3	302.7
	260.6	355.3
	290.1	408.3
	320.3	451.0
	326.6	459.4

Time increment (t) = 0.100 hrs.

Pond File: C:\POND2\ROSE5-5.PND
 Inflow Hydrograph: C:\POND2\ROSE5-5.HYD
 Outflow Hydrograph: C:\POND2\ROSE5-50.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
11.000	0.001	0.0	0.0	0.0	0.00	5146.00
11.100	0.001	0.0	0.0	0.0	0.00	5146.00
11.200	1.001	1.0	0.7	1.0	0.17	5146.09
11.300	1.001	2.0	1.7	2.7	0.45	5146.23
11.400	1.001	2.0	2.5	3.7	0.64	5146.32
11.500	2.001	3.0	3.6	5.5	0.93	5146.47
11.600	2.001	4.0	4.7	7.6	1.47	5146.61
11.700	3.001	5.0	5.6	9.7	2.02	5146.73
11.800	5.001	8.0	7.5	13.5	3.08	5146.97
11.900	6.001	11.0	9.2	18.5	4.62	5147.20
12.000	13.001	19.0	12.8	28.2	7.72	5147.63
12.100	24.001	37.0	22.8	49.8	13.49	5148.45
12.200	26.001	50.0	37.9	72.8	17.46	5149.22
12.300	16.001	42.0	43.1	79.9	18.43	5149.44
12.400	8.001	24.0	33.7	67.1	16.67	5149.04
12.500	5.001	13.0	21.2	46.7	12.76	5148.34
12.600	4.001	9.0	13.6	30.2	8.33	5147.71
12.700	3.001	7.0	10.0	20.6	5.29	5147.30
12.800	3.001	6.0	8.4	16.0	3.81	5147.09
12.900	2.001	5.0	7.3	13.4	3.00	5146.96
13.000	2.001	4.0	6.4	11.3	2.47	5146.83
13.100	2.001	4.0	6.0	10.4	2.22	5146.78
13.200	2.001	4.0	5.8	10.0	2.10	5146.75
13.300	2.001	4.0	5.7	9.8	2.05	5146.74
13.400	2.001	4.0	5.6	9.7	2.02	5146.73
13.500	2.001	4.0	5.6	9.6	2.01	5146.73
13.600	2.001	4.0	5.6	9.6	2.00	5146.73
13.700	2.001	4.0	5.6	9.6	2.00	5146.73
13.800	2.001	4.0	5.6	9.6	2.00	5146.73
13.900	2.001	4.0	5.6	9.6	2.00	5146.73
14.000	1.001	3.0	5.1	8.6	1.73	5146.67
14.100	1.001	2.0	4.4	7.1	1.34	5146.58
14.200	1.001	2.0	4.1	6.4	1.16	5146.54
14.300	1.001	2.0	4.0	6.1	1.07	5146.52
14.400	1.001	2.0	3.9	6.0	1.03	5146.51
14.500	1.001	2.0	3.9	5.9	1.02	5146.50
14.600	1.001	2.0	3.9	5.9	1.01	5146.50
14.700	1.001	2.0	3.9	5.9	1.00	5146.50
14.800	1.001	2.0	3.9	5.9	1.00	5146.50
14.900	1.001	2.0	3.9	5.9	1.00	5146.50
15.000	1.001	2.0	3.9	5.9	1.00	5146.50
15.100	1.001	2.0	3.9	5.9	1.00	5146.50
15.200	1.001	2.0	3.9	5.9	1.00	5146.50
15.300	1.001	2.0	3.9	5.9	1.00	5146.50
15.400	1.001	2.0	3.9	5.9	1.00	5146.50

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Inflow Hydrograph: C:\POND2\ROSES5-5.HYD
Outflow Hydrograph: C:\POND2\ROSES5-50.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - D (cfs)	2S/t + D (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
15.500	1.001	2.0	3.9	5.91	1.00	5146.50
15.600	1.001	2.0	3.9	5.91	1.00	5146.50
15.700	1.001	2.0	3.9	5.91	1.00	5146.50
15.800	0.001	1.0	3.2	4.91	0.83	5146.41
15.900	0.001	0.0	2.1	3.21	0.55	5146.27
16.000	0.001	0.0	1.4	2.11	0.36	5146.18
16.100	0.001	0.0	0.9	1.41	0.24	5146.12
16.200	0.001	0.0	0.6	0.91	0.16	5146.08
16.300	0.001	0.0	0.4	0.61	0.10	5146.05
16.400	0.001	0.0	0.3	0.41	0.07	5146.03
16.500	0.001	0.0	0.2	0.31	0.04	5146.02
16.600	0.001	0.0	0.1	0.21	0.03	5146.01
16.700	0.001	0.0	0.1	0.11	0.02	5146.01
16.800	0.001	0.0	0.0	0.11	0.01	5146.01
16.900	0.001	0.0	0.0	0.01	0.01	5146.00
17.000	0.001	0.0	0.0	0.01	0.01	5146.00
17.100	0.001	0.0	0.0	0.01	0.00	5146.00
17.200	0.001	0.0	0.0	0.01	0.00	5146.00
17.300	0.001	0.0	0.0	0.01	0.00	5146.00
17.400	0.001	0.0	0.0	0.01	0.00	5146.00
17.500	0.001	0.0	0.0	0.01	0.00	5146.00
17.600	0.001	0.0	0.0	0.01	0.00	5146.00
17.700	0.001	0.0	0.0	0.01	0.00	5146.00
17.800	0.001	0.0	0.0	0.01	0.00	5146.00
17.900	0.001	0.0	0.0	0.01	0.00	5146.00
18.000	0.001	0.0	0.0	0.01	0.00	5146.00
18.100	0.001	0.0	0.0	0.01	0.00	5146.00
18.200	0.001	0.0	0.0	0.01	0.00	5146.00
18.300	0.001	0.0	0.0	0.01	0.00	5146.00
18.400	0.001	0.0	0.0	0.01	0.00	5146.00
18.500	0.001	0.0	0.0	0.01	0.00	5146.00
18.600	0.001	0.0	0.0	0.01	0.00	5146.00
18.700	0.001	0.0	0.0	0.01	0.00	5146.00
18.800	0.001	0.0	0.0	0.01	0.00	5146.00
18.900	0.001	0.0	0.0	0.01	0.00	5146.00
19.000	0.001	0.0	0.0	0.01	0.00	5146.00
19.100	0.001	0.0	0.0	0.01	0.00	5146.00
19.200	0.001	0.0	0.0	0.01	0.00	5146.00
19.300	0.001	0.0	0.0	0.01	0.00	5146.00
19.400	0.001	0.0	0.0	0.01	0.00	5146.00
19.500	0.001	0.0	0.0	0.01	0.00	5146.00
19.600	0.001	0.0	0.0	0.01	0.00	5146.00
19.700	0.001	0.0	0.0	0.01	0.00	5146.00
19.800	0.001	0.0	0.0	0.01	0.00	5146.00
19.900	0.001	0.0	0.0	0.01	0.00	5146.00
20.000	0.001	0.0	0.0	0.01	0.00	5146.00

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Pond File: C:\POND2\ROSE5-5.PND
Inflow Hydrograph: C:\POND2\ROSE5-5.HYD
Outflow Hydrograph: C:\POND2\ROSE5-50.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
20.100	0.001	0.0	0.0	0.01	0.00	5146.00
20.200	0.001	0.0	0.0	0.01	0.00	5146.00
20.300	0.001	0.0	0.0	0.01	0.00	5146.00
20.400	0.001	0.0	0.0	0.01	0.00	5146.00
20.500	0.001	0.0	0.0	0.01	0.00	5146.00
20.600	0.001	0.0	0.0	0.01	0.00	5146.00
20.700	0.001	0.0	0.0	0.01	0.00	5146.00
20.800	0.001	0.0	0.0	0.01	0.00	5146.00
20.900	0.001	0.0	0.0	0.01	0.00	5146.00
21.000	0.001	0.0	0.0	0.01	0.00	5146.00
21.100	0.001	0.0	0.0	0.01	0.00	5146.00
21.200	0.001	0.0	0.0	0.01	0.00	5146.00
21.300	0.001	0.0	0.0	0.01	0.00	5146.00
21.400	0.001	0.0	0.0	0.01	0.00	5146.00
21.500	0.001	0.0	0.0	0.01	0.00	5146.00
21.600	0.001	0.0	0.0	0.01	0.00	5146.00
21.700	0.001	0.0	0.0	0.01	0.00	5146.00
21.800	0.001	0.0	0.0	0.01	0.00	5146.00
21.900	0.001	0.0	0.0	0.01	0.00	5146.00
22.000	0.001	0.0	0.0	0.01	0.00	5146.00
22.100	0.001	0.0	0.0	0.01	0.00	5146.00
22.200	0.001	0.0	0.0	0.01	0.00	5146.00
22.300	0.001	0.0	0.0	0.01	0.00	5146.00
22.400	0.001	0.0	0.0	0.01	0.00	5146.00
22.500	0.001	0.0	0.0	0.01	0.00	5146.00
22.600	0.001	0.0	0.0	0.01	0.00	5146.00
22.700	0.001	0.0	0.0	0.01	0.00	5146.00
22.800	0.001	0.0	0.0	0.01	0.00	5146.00
22.900	0.001	0.0	0.0	0.01	0.00	5146.00
23.000	0.001	0.0	0.0	0.01	0.00	5146.00
23.100	0.001	0.0	0.0	0.01	0.00	5146.00
23.200	0.001	0.0	0.0	0.01	0.00	5146.00
23.300	0.001	0.0	0.0	0.01	0.00	5146.00
23.400	0.001	0.0	0.0	0.01	0.00	5146.00
23.500	0.001	0.0	0.0	0.01	0.00	5146.00
23.600	0.001	0.0	0.0	0.01	0.00	5146.00
23.700	0.001	0.0	0.0	0.01	0.00	5146.00
23.800	0.001	0.0	0.0	0.01	0.00	5146.00
23.900	0.001	0.0	0.0	0.01	0.00	5146.00
24.000	0.001	0.0	0.0	0.01	0.00	5146.00
24.100	0.001	0.0	0.0	0.01	0.00	5146.00
24.200	0.001	0.0	0.0	0.01	0.00	5146.00
24.300	0.001	0.0	0.0	0.01	0.00	5146.00
24.400	0.001	0.0	0.0	0.01	0.00	5146.00
24.500	0.001	0.0	0.0	0.01	0.00	5146.00
24.600	0.001	0.0	0.0	0.01	0.00	5146.00

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Inflow Hydrograph: C:\POND2\ROSE5-5.HYD
Outflow Hydrograph: C:\POND2\ROSE5-50.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
24.700	0.001	0.0	0.0	0.0	0.00	5146.00
24.800	0.001	0.0	0.0	0.0	0.00	5146.00
24.900	0.001	0.0	0.0	0.0	0.00	5146.00
25.000	0.001	0.0	0.0	0.0	0.00	5146.00
25.100	0.001	0.0	0.0	0.0	0.00	5146.00
25.200	0.001	0.0	0.0	0.0	0.00	5146.00
25.300	0.001	0.0	0.0	0.0	0.00	5146.00
25.400	0.001	0.0	0.0	0.0	0.00	5146.00
25.500	0.001	0.0	0.0	0.0	0.00	5146.00
25.600	0.001	0.0	0.0	0.0	0.00	5146.00
25.700	0.001	0.0	0.0	0.0	0.00	5146.00
25.800	0.001	0.0	0.0	0.0	0.00	5146.00
25.900	0.001	0.0	0.0	0.0	0.00	5146.00

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***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: C:\POND2\ROSE5-5.PND
Inflow Hydrograph: C:\POND2\ROSE5-5.HYD
Outflow Hydrograph: C:\POND2\ROSE5-50.HYD

Starting Pond W.S. Elevation = 5146.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 26.00 cfs
Peak Outflow = 18.43 cfs
Peak Elevation = 5149.44 ft

***** Summary of Approximate Peak Storage *****

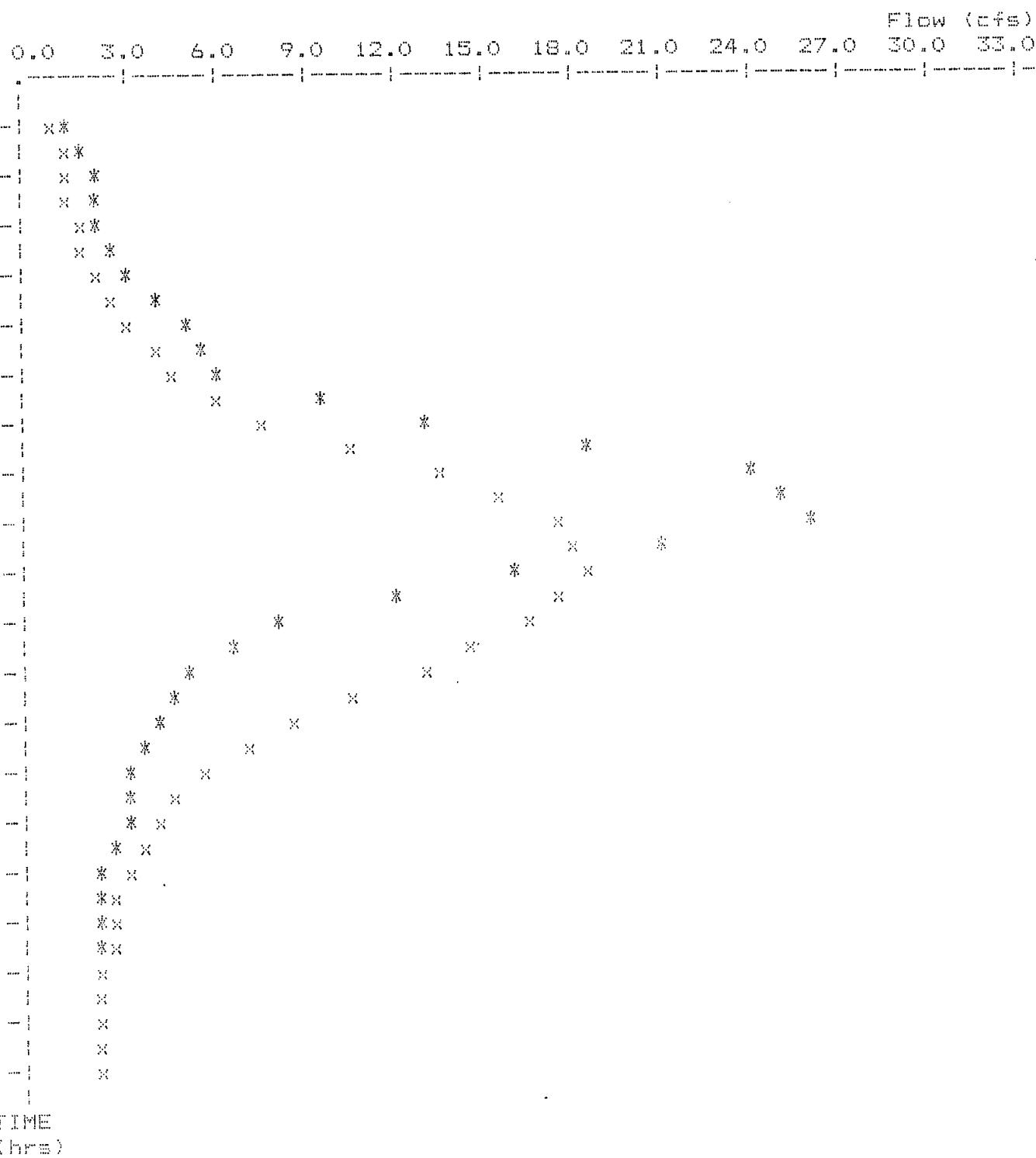
Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.25 ac-ft
Total Storage in Pond	=	0.25 ac-ft

Pond File: C:\POND2\ROSES5-5.PND
 Inflow Hydrograph: C:\POND2\ROSES5-5.HYD
 Outflow Hydrograph: C:\POND2\ROSES5-50.HYD

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Peak Inflow = 26.00 cfs
 Peak Outflow = 18.43 cfs
 Peak Elevation = 5149.44 ft



* File: C:\POND2\ROSES5-5.HYD Qmax = 26.0 cfs
 x File: C:\POND2\ROSES5-50.HYD Qmax = 18.4 cfs

ROSEWOOD WASH DRAINAGE BASIN
 POND #5 POND IN EASTGATE AT TOP OF SLOPE
 100 YEAR STORM
 CODEGA & FRICKE, INC 8-5-90 GMP 1016.10

Inflow Hydrograph: C:\POND2\ROSE5-C.HYD
 Rating Table file: C:\POND2\ROSE5-C.PND

-----INITIAL CONDITIONS-----

Elevation = 5146.00 ft
 Outflow = 0.00 cfs
 Storage = 0.00 ac-ft

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	INTERMEDIATE ROUTING COMPUTATIONS	
			2S/t (cfs)	2S/t + 0 (cfs)
5146.00	0.0	0.000	0.0	0.0
5146.50	1.0	0.020	4.9	5.9
5147.00	3.2	0.045	10.9	14.1
5147.50	6.7	0.075	18.2	24.9
5148.00	10.6	0.112	27.0	37.6
5148.50	13.8	0.154	37.3	51.1
5149.00	16.5	0.204	49.3	65.8
5149.50	18.7	0.261	63.2	81.9
5150.00	20.7	0.326	79.0	99.7
5150.50	22.6	0.399	96.5	119.1
5151.00	24.3	0.477	115.3	139.6
5151.50	25.9	0.560	135.6	161.5
5152.00	27.4	0.651	157.4	184.8
5152.50	28.8	0.747	180.8	209.6
5153.00	43.9	0.850	205.7	249.6
5153.50	70.4	0.960	232.3	302.7
5154.00	94.7	1.077	260.6	355.3
5154.50	118.2	1.199	290.1	408.3
5155.00	130.7	1.324	320.3	451.0
5155.10	132.8	1.350	326.6	459.4

Time increment (t) = 0.100 hrs.

Pond File: C:\POND2\ROSE5-C.PND
 Inflow Hydrograph: C:\POND2\ROSE5-C.HYD
 Outflow Hydrograph: C:\POND2\ROSE5-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	EL ELEVATION (ft)
11.000	2.001	---	0.0	0.0	0.00	5146.00
11.100	2.001	4.0	2.6	4.0	0.68	5146.34
11.200	3.001	5.0	4.7	7.6	1.48	5146.61
11.300	3.001	6.0	6.1	10.7	2.29	5146.79
11.400	3.001	6.0	6.8	12.1	2.67	5146.88
11.500	4.001	7.0	7.5	13.8	3.11	5146.98
11.600	4.001	8.0	8.2	15.5	3.67	5147.07
11.700	9.001	13.0	10.2	21.2	5.50	5147.33
11.800	14.001	23.0	14.7	33.2	9.25	5147.83
11.900	19.001	33.0	21.7	47.7	12.99	5148.37
12.000	35.001	54.0	40.0	75.7	17.85	5149.31
12.100	64.001	99.0	90.5	139.0	24.25	5150.99
12.200	69.001	133.0	155.4	223.5	34.06	5152.67
12.300	42.001	111.0	161.9	266.4	52.28	5153.16
12.400	22.001	64.0	156.0	225.9	34.94	5152.70
12.500	14.001	36.0	136.4	192.0	27.80	5152.14
12.600	11.001	25.0	109.6	161.4	25.89	5151.50
12.700	9.001	20.0	82.7	129.6	23.47	5150.74
12.800	3.001	17.0	58.3	99.7	20.70	5150.00
12.900	7.001	15.0	36.2	73.3	17.52	5149.23
13.000	6.001	13.0	23.6	51.2	13.82	5148.50
13.100	6.001	12.0	15.6	35.6	9.98	5147.92
13.200	5.001	11.0	12.2	26.6	7.22	5147.57
13.300	5.001	10.0	10.5	22.2	5.81	5147.37
13.400	5.001	10.0	10.0	20.5	5.29	5147.30
13.500	5.001	10.0	7.8	20.0	5.10	5147.27
13.600	5.001	10.0	9.7	19.8	5.04	5147.26
13.700	4.001	9.0	9.3	18.7	4.69	5147.21
13.800	3.001	7.0	8.5	16.3	3.92	5147.10
13.900	3.001	6.0	7.8	14.5	3.33	5147.02
14.000	3.001	6.0	7.6	13.8	3.13	5146.98
14.100	3.001	6.0	7.4	13.6	3.06	5146.97
14.200	3.001	6.0	7.4	13.4	3.03	5146.96
14.300	3.001	6.0	7.4	13.4	3.01	5146.96
14.400	3.001	6.0	7.3	13.4	3.01	5146.96
14.500	3.001	6.0	7.3	13.3	3.00	5146.96
14.600	3.001	6.0	7.3	13.3	3.00	5146.95
14.700	3.001	6.0	7.3	13.3	3.00	5146.95
14.800	3.001	6.0	7.3	13.3	3.00	5146.95
14.900	3.001	6.0	7.3	13.3	3.00	5146.95
15.000	3.001	6.0	7.3	13.3	3.00	5146.95
15.100	3.001	6.0	7.3	13.3	3.00	5146.95
15.200	3.001	6.0	7.3	13.3	3.00	5146.95
15.300	2.001	5.0	6.9	12.3	2.73	5146.89
15.400	2.001	4.0	6.2	10.9	2.34	5146.80

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Pond File: C:\POND2\ROSE5-C.PND
Inflow Hydrograph: C:\POND2\ROSE5-C.HYD
Outflow Hydrograph: C:\POND2\ROSE5-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
15.500	2.001	4.0	5.9	10.21	2.16	5146.76
15.600	2.001	4.0	5.7	9.91	2.07	5146.74
15.700	2.001	4.0	5.7	9.71	2.03	5146.74
15.800	2.001	4.0	5.6	9.71	2.02	5146.73
15.900	2.001	4.0	5.6	9.61	2.01	5146.73
16.000	2.001	4.0	5.6	9.61	2.00	5146.73
16.100	2.001	4.0	5.6	9.61	2.00	5146.73
16.200	2.001	4.0	5.6	9.61	2.00	5146.73
16.300	2.001	4.0	5.6	9.61	2.00	5146.73
16.400	2.001	4.0	5.6	9.61	2.00	5146.73
16.500	2.001	4.0	5.6	9.61	2.00	5146.73
16.600	2.001	4.0	5.6	9.61	2.00	5146.73
16.700	2.001	4.0	5.6	9.61	2.00	5146.73
16.800	2.001	4.0	5.6	9.61	2.00	5146.73
16.900	2.001	4.0	5.6	9.61	2.00	5146.73
17.000	2.001	4.0	5.6	9.61	2.00	5146.73
17.100	2.001	4.0	5.6	9.61	2.00	5146.73
17.200	2.001	4.0	5.6	9.61	2.00	5146.73
17.300	2.001	4.0	5.6	9.61	2.00	5146.73
17.400	2.001	4.0	5.6	9.61	2.00	5146.73
17.500	2.001	4.0	5.6	9.61	2.00	5146.73
17.600	2.001	4.0	5.6	9.61	2.00	5146.73
17.700	2.001	4.0	5.6	9.61	2.00	5146.73
17.800	2.001	4.0	5.6	9.61	2.00	5146.73
17.900	2.001	4.0	5.6	9.61	2.00	5146.73
18.000	2.001	4.0	5.6	9.61	2.00	5146.73
18.100	2.001	4.0	5.6	9.61	2.00	5146.73
18.200	2.001	4.0	5.6	9.61	2.00	5146.73
18.300	2.001	4.0	5.6	9.61	2.00	5146.73
18.400	2.001	4.0	5.6	9.61	2.00	5146.73
18.500	2.001	4.0	5.6	9.61	2.00	5146.73
18.600	1.001	3.0	5.1	8.61	1.73	5146.67
18.700	1.001	2.0	4.4	7.11	1.34	5146.58
18.800	1.001	2.0	4.1	6.41	1.16	5146.54
18.900	1.001	2.0	4.0	6.11	1.07	5146.52
19.000	1.001	2.0	3.9	6.01	1.03	5146.51
19.100	1.001	2.0	3.9	5.91	1.02	5146.50
19.200	1.001	2.0	3.9	5.91	1.01	5146.50
19.300	1.001	2.0	3.9	5.91	1.00	5146.50
19.400	1.001	2.0	3.9	5.91	1.00	5146.50
19.500	1.001	2.0	3.9	5.91	1.00	5146.50
19.600	1.001	2.0	3.9	5.91	1.00	5146.50
19.700	1.001	2.0	3.9	5.91	1.00	5146.50
19.800	1.001	2.0	3.9	5.91	1.00	5146.50
19.900	1.001	2.0	3.9	5.91	1.00	5146.50
20.000	1.001	2.0	3.9	5.91	1.00	5146.50

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Pond File: C:\POND2\ROSES5-C.PND
Inflow Hydrograph: C:\POND2\ROSES5-C.HYD
Outflow Hydrograph: C:\POND2\ROSES5-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
20.100	1.00	2.0	3.9	5.9	1.00	5146.50
20.200	1.00	2.0	3.9	5.9	1.00	5146.50
20.300	1.00	2.0	3.9	5.9	1.00	5146.50
20.400	1.00	2.0	3.9	5.9	1.00	5146.50
20.500	1.00	2.0	3.9	5.9	1.00	5146.50
20.600	1.00	2.0	3.9	5.9	1.00	5146.50
20.700	1.00	2.0	3.9	5.9	1.00	5146.50
20.800	1.00	2.0	3.9	5.9	1.00	5146.50
20.900	1.00	2.0	3.9	5.9	1.00	5146.50
21.000	1.00	2.0	3.9	5.9	1.00	5146.50
21.100	1.00	2.0	3.9	5.9	1.00	5146.50
21.200	1.00	2.0	3.9	5.9	1.00	5146.50
21.300	1.00	2.0	3.9	5.9	1.00	5146.50
21.400	1.00	2.0	3.9	5.9	1.00	5146.50
21.500	1.00	2.0	3.9	5.9	1.00	5146.50
21.600	1.00	2.0	3.9	5.9	1.00	5146.50
21.700	1.00	2.0	3.9	5.9	1.00	5146.50
21.800	1.00	2.0	3.9	5.9	1.00	5146.50
21.900	1.00	2.0	3.9	5.9	1.00	5146.50
22.000	1.00	2.0	3.9	5.9	1.00	5146.50
22.100	1.00	2.0	3.9	5.9	1.00	5146.50
22.200	1.00	2.0	3.9	5.9	1.00	5146.50
22.300	1.00	2.0	3.9	5.9	1.00	5146.50
22.400	1.00	2.0	3.9	5.9	1.00	5146.50
22.500	1.00	2.0	3.9	5.9	1.00	5146.50
22.600	1.00	2.0	3.9	5.9	1.00	5146.50
22.700	1.00	2.0	3.9	5.9	1.00	5146.50
22.800	1.00	2.0	3.9	5.9	1.00	5146.50
22.900	1.00	2.0	3.9	5.9	1.00	5146.50
23.000	1.00	2.0	3.9	5.9	1.00	5146.50
23.100	1.00	2.0	3.9	5.9	1.00	5146.50
23.200	1.00	2.0	3.9	5.9	1.00	5146.50
23.300	1.00	2.0	3.9	5.9	1.00	5146.50
23.400	1.00	2.0	3.9	5.9	1.00	5146.50
23.500	1.00	2.0	3.9	5.9	1.00	5146.50
23.600	1.00	2.0	3.9	5.9	1.00	5146.50
23.700	1.00	2.0	3.9	5.9	1.00	5146.50
23.800	1.00	2.0	3.9	5.9	1.00	5146.50
23.900	1.00	2.0	3.9	5.9	1.00	5146.50
24.000	0.00	1.0	3.2	4.9	0.83	5146.41
24.100	0.00	0.0	2.1	3.2	0.55	5146.27
24.200	0.00	0.0	1.4	2.1	0.36	5146.18
24.300	0.00	0.0	0.9	1.4	0.24	5146.12
24.400	0.00	0.0	0.6	0.7	0.16	5146.08
24.500	0.00	0.0	0.4	0.6	0.10	5146.05
24.600	0.00	0.0	0.3	0.4	0.07	5146.03

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Pond File: C:\POND2\ROSE5-C.PND
Inflow Hydrograph: C:\POND2\ROSE5-C.HYD
Outflow Hydrograph: C:\POND2\ROSE5-CO.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (hrs)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - Q (cfs)	2S/t + Q (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
24.700	0.001	0.0	0.2	0.31	0.04	5146.02
24.800	0.001	0.0	0.1	0.21	0.03	5146.01
24.900	0.001	0.0	0.1	0.11	0.02	5146.01
25.000	0.001	0.0	0.0	0.11	0.01	5146.01
25.100	0.001	0.0	0.0	0.01	0.01	5146.00
25.200	0.001	0.0	0.0	0.01	0.01	5146.00
25.300	0.001	0.0	0.0	0.01	0.00	5146.00
25.400	0.001	0.0	0.0	0.01	0.00	5146.00
25.500	0.001	0.0	0.0	0.01	0.00	5146.00
25.600	0.001	0.0	0.0	0.01	0.00	5146.00
25.700	0.001	0.0	0.0	0.01	0.00	5146.00
25.800	0.001	0.0	0.0	0.01	0.00	5146.00
25.900	0.001	0.0	0.0	0.01	0.00	5146.00

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***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: C:\POND2\ROSE5-C.PND
Inflow Hydrograph: C:\POND2\ROSE5-C.HYD
Outflow Hydrograph: C:\POND2\ROSE5-CO.HYD

Starting Pond W.S. Elevation = 5146.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 69.00 cfs
Peak Outflow = 52.28 cfs
Peak Elevation = 5153.16 ft

***** Summary of Approximate Peak Storage *****

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.88 ac-ft
Total Storage in Pond	=	0.88 ac-ft

Warning: Inflow hydrograph truncated on left side.

Pond File: C:\POND2\ROSES-C.PND
 Inflow Hydrograph: C:\POND2\ROSES-C.HYD
 Outflow Hydrograph: C:\POND2\ROSES-CO.HYD

EXECUTED: 08-05-1990

11:00:54

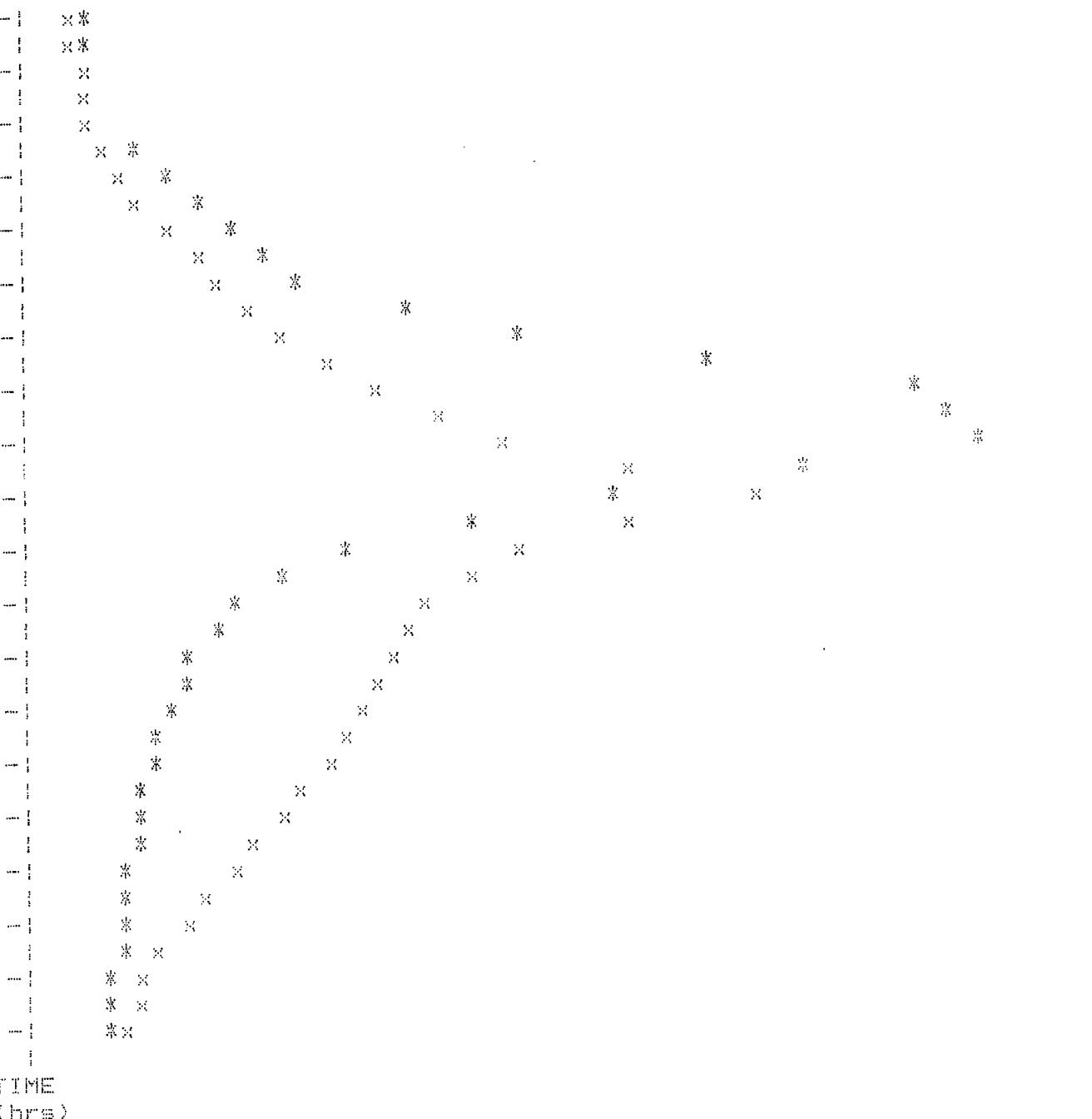
Peak Inflow = 69.00 cfs

Peak Outflow = 52.28 cfs

Peak Elevation = 5153.16 ft

Flow (cfs)

0.0 7.0 14.0 21.0 28.0 35.0 42.0 49.0 56.0 63.0 70.0 77.0



* File: C:\POND2\ROSES-C.HYD Qmax = 69.0 cfs
 x File: C:\POND2\ROSES-CO.HYD Qmax = 52.3 cfs



CAUGHLIN RANCH Master Grading Plan II & Master Hydrology Map

Caughlin Ranch
Elementary School

Caughlin Ranch Shopping Center

2

POND #	VOLUME (ac./ft.)	PRIMARY STRUCTURE	SECONDARY STRUCTURE	INFLOW (CFS)	OUTFLOW (CFS)
				Q(5)	Q(100)
1	4.3	10" PIPE	18" PIPE	45	91
2	3.6	10" PIPE	24" PIPE	35.3	87.6
3	1.0	15" PIPE	24" PIPE	13.5	31.0
4	.14	24" PIPE	60" DIA. STANDPIPE	11.9	26.8
5	1.35	18" PIPE	60" DIA. STANDPIPE	26.0	69.0
				18.4	52.3

