STORMWATER DETENTION ANALYSIS
PHEASANT POINT APARTMENTS
CITY OF O'FALLON
PREPARED BY: BAX ENGINEERING COMPANY, INC.
BAX PROJECT NO. 95-7218E
NOVEMBER 19, 1999

INTRODUCTION:

This tract of land is presently an undeveloped site located in the City of O'Fallon, Missouri. It is proposed that the 40.93 acre tract be developed into multi-family residential lots. A detention basin will be constructed in the southeast corner of the site. The storage volume and outflow rates shall be proportioned to insure that the peak rate of runoff leaving the tract under post-developed conditions is less than or equal to the peak rate of runoff under pre-developed conditions for the 2, 15, and 25 year-20 minute design storm. The basin was also analyzed for the 100 year frequency-20 minute duration design storm.

GENERAL SITE DATA AND RUNOFF CALCULATIONS:

STATE OF MISSOURI
CLIFFORD
L. HEITMANN
NUMBER
E-29817
11/22/99
REGISTERED PROFESSIONAL ENGINEER

Area of Tract: 40.93 acres

Pre-developed P.I. factors used for analysis are:

2 year – 20 minute storm	(5% impervious)	1.15 cfs/ac
15 year – 20 minute storm	(5% impervious)	1.87 cfs/ac
25 year – 20 minute storm	(5% impervious)	2.31 cfs/ac
100 year – 20 minute storm	(5% impervious)	2.95 cfs/ac

Post-developed P.I. factors used for analysis are:

2 year – 20 minute storm	(5% impervious)	1.15 cfs/ac
	(70% impervious)	2.00 cfs/ac
	(100% impervious)	2.39 cfs/ac
15 year – 20 minute storm	(5% impervious)	1.87 cfs/ac
	(70% impervious)	3.30 cfs/ac

(100% impervious) 3.85 cfs/ac
25 year – 20 minute storm (5% impervious) 2.31 cfs/ac
(70% impervious) 4.07 cfs/ac
(100% impervious) 4.75 cfs/ac
100 year – 20 minute storm (5% impervious) 2.95 cfs/ac
(70% impervious) 5.21 cfs/ac
(100% impervious) 6.08 cfs/ac

REQUIRED ATTENUATION FOR THE SITE AS A WHOLE:

The required attenuation for the site as a whole is a sum of the bypass flow (water which does not reach the basin) and the flow to the basin less the pre-developed flow.

Pre-developed runoff:

2 year – 1.00 acre @ 1.15 cfs/ac = 47.07 cfs

40.9

15 year – 1.00 acre @ 1.87 cfs/ac = 76.54 cfs

25 year – 1.00 acre @ 2.31 cfs/ac = 94.55 cfs

100 year – 1.00 acre @ 2.95 cfs/ac = 120.74 cfs

Post-developed runoff:

2 year – 21.13 acres @ 1.15 cfs/ac = 24.30 cfs
18.62 acres @ 2.00 cfs/ac = 37.24 cfs
1.18 acres @ 2.39 cfs/ac = 2.82 cfs
40.93
64.36 cfs

15 year – 21.13 acres @ 1.87 cfs/ac = 39.51 cfs
18.62 acres @ 3.30 cfs/ac = 61.45 cfs
1.18 acres @ 3.85 cfs/ac = 4.54 cfs
105.50 cfs

25 year – 21.13 acres @ 2.31 cfs/ac = 48.81 cfs
18.62 acres @ 4.07 cfs/ac = 75.78 cfs
1.18 acres @ 4.75 cfs/ac = 5.61 cfs
130.20 cfs

100 year – 21.13 acres @ 2.95 cfs/ac = 62.33 cfs
18.62 acres @ 5.21 cfs/ac = 97.01 cfs
1.18 acres @ 6.08 cfs/ac = 7.17 cfs
166.51 cfs

Bypass flow:

2 year-20 minute storm
18.00 ac.@ 1.15 cfs/ac = 20.70 cfs
6.11 ac @ 2.00 cfs/ac = 12.22 cfs
32.92 cfs

15 year-20 minute storm
18.00 ac @ 1.87 cfs/ac = 33.66 cfs
6.11 ac @ 3.30 cfs/ac = 20.16 cfs
53.82 cfs

25 year-20 minute storm
18.00 ac @ 2.31 cfs/ac = 41.58 cfs
6.11 ac @ 4.75 cfs/ac = 29.02 cfs
70.60 cfs

100 year-20 minute storm
18.00 ac @ 2.95 cfs/ac = 53.10 cfs
6.11 ac @ 6.08 cfs/ac = 37.15 cfs
90.25 cfs

	BYPASS FLOW +	FLOW TO BASIN -	PRE-DEV. Q =	REQUIRED ATTENUATION
2 year	32.92	30.98	47.07	16.83
15 year	53.82	50.91	76.54	28.19
25 year	70.60	62.83	94.55	38.88
100 year	90.25	80.39	120.74	49.90

TIME OF CONCENTRATION:

Of the inflows to the basin, the most remote point lies to the north of building 16. Flows will travel approximately 190’ overland to CI 219, then 1,075 feet via storm pipe to the detention basin. Time of concentration is estimated as follows:

T(overland): L = 190'
Elevation difference = 504 – 498 = 6 feet
T(overland) = .64 minutes (see Figure 1)
T(storm pipe): L = 1075'
1075 / 7 fps = 2.56 minutes

Total 3.20 minutes => Use **3** minutes

PERMITTED RELEASE RATE:

The permitted release rate of the detention basin is determined by subtracting the required attenuation from the peak inflow to the basin. See attached drainage area maps for flow areas.

2 year – 30.98 cfs – 16.83 cfs = **14.15 cfs**

15 year – 50.91 cfs – 28.19 cfs = **22.72 cfs**

25 year – 62.83 cfs – 38.88 cfs = **23.95 cfs**

100 year - 80.39 cfs – 49.90 cfs = **30.49 cfs**

ROUTING CALCULATIONS AND RESULTS:

A computer program "Pondpack" was utilized in routing the design storms through the basin. Because this site is partially in Floodway and Flood plain, the bottom of the basin is below the 100 year storm elevaion. The outfall structure discharges into the branch of Dardeene creek located adjacent to the site. In order to provide adequate detention below the 100 year storm elevation, a flap gate will be utilized at the end of the discharge pipe. Routing has been performed on the proposed structure, which detains properly for the 2, 15, 25 and 100 year storms. Also, routing has been performed to show that with the flap gate closed, the basin will detain fully the 2, 15, 25 and 100 year storms. As found in the routing calculations, the results are as follows:

2 year-20 minute storm

Peak release rate = 12.33 cfs
Peak elevation = 474.36 ft.

15 year-20 minute storm

Peak release rate = 15.94 cfs
Peak elevation = 475.25 ft.

25 year-20 minute storm

Peak release rate = 17.21 cfs
Peak elevation = 475.69 ft.

100 year-20 minute storm

Peak release rate = 18.70 cfs
Peak elevation = 476.27 ft.

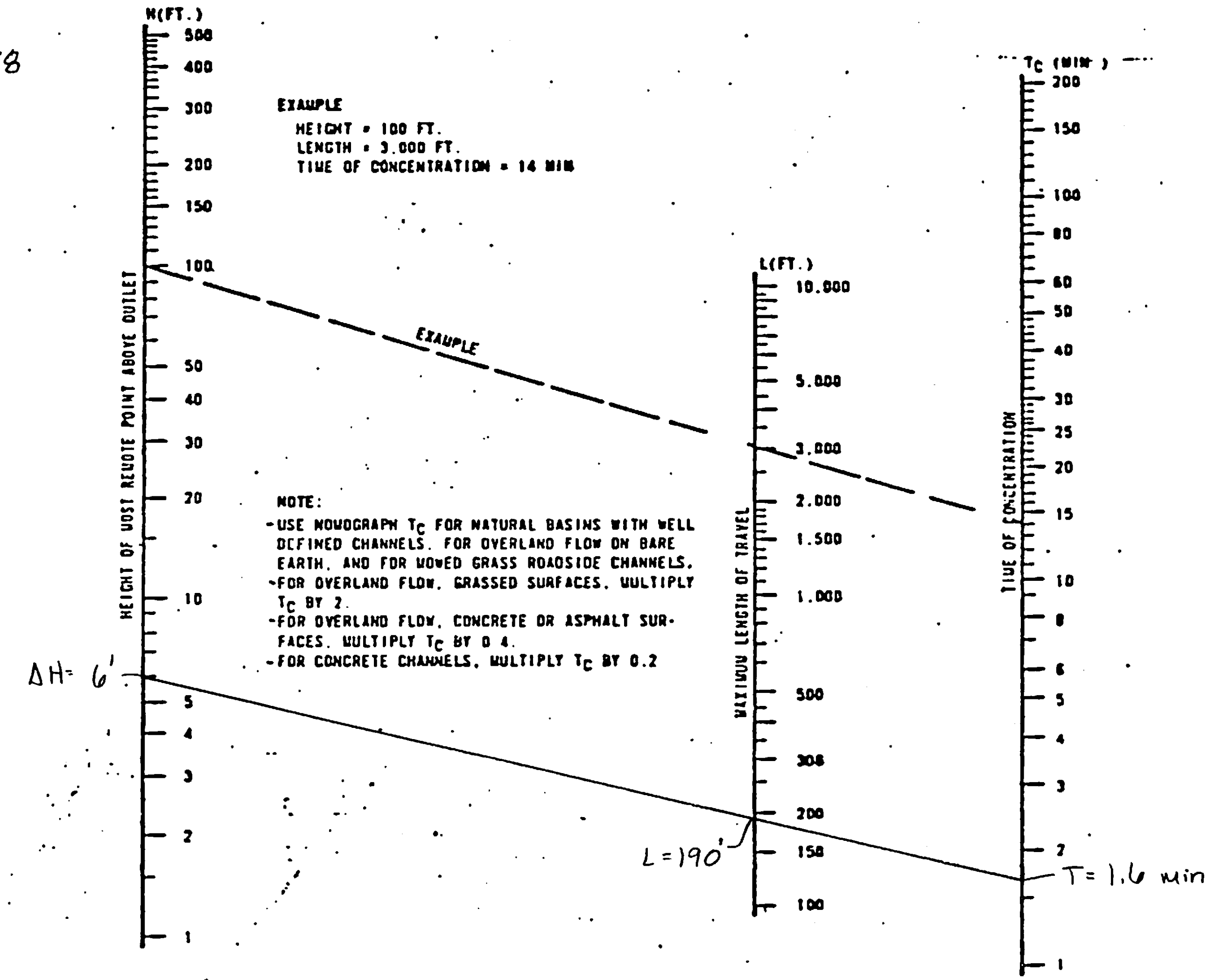
DETENTION BASIN CHARACTERISTICS SUMMARY:

25 Year – 20 minute storm highwater = 475.69
Top of berm = 482.00
Outflow structure: stand pipe with area inlet top
Low flow slot : 8"w x 36" h
Flowline out of basin = 471.00

Pheasant Point Apts.
11-17-99 95-7218E

$\Delta H = 504 - 498$
$= 6'$

$L = 190'$



$T_c = T_{190'} + T_{1,075}$

$T_{190} = 1.6\text{min}\,(.4) = .64\text{ min.}$ ← asphalt

$T_{1,075} = 1{,}075' / 7'/\text{sec} = 153.57\text{ sec} \approx 2.56\text{min}$

$3.2\text{min} \Rightarrow \underline{3\text{min}}$

FIGURE 1

TIME OF CONCENTRATION OF SMALL DRAINAGE BASINS

POND-2 Version: 5.20 S/N:

>>>>> HYDROGRAPH PRINTOUT <<<<<

11-19-1999 08:48:30

Hydrograph file: 7218E-02.HYD

HYDROGRAPH ORDINATES (cfs)
Time increment = 1.00 Minutes
Time on left represents time for first Q in each row.

Time Minutes							
0.00	0.00	10.33	20.65	30.98	30.98	30.98	30.98
7.00	30.98	30.98	30.98	30.98	30.98	30.98	30.98
14.00	30.98	30.98	30.98	30.98	30.98	30.98	30.98
21.00	20.65	10.33	0.00	0.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	0.00			

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Hydrograph [illegible] 7282-2 [illegible]

HYDROGRAPH ORDINATES (cfs)

Time increment = 1.00 Minutes

Time Minutes	Time on left represents time for first Q in each row.						
0.00	0.00	10.[illegible]	[illegible]	30.98	30.98	30.98	30.98
7.00	30.98	30.98	30.98	30.98	30.98	30.98	30.98
14.00	30.98	30.98	30.98	30.98	30.98	30.98	30.98
21.00	20.45	10.33	0.00	0.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	0.00	0.00		

POND-2 Version: 5.20 S/N:

>>>>> HYDROGRAPH PRINTOUT <<<<<

11-19-1999 08:48:42

Hydrograph file: 7218E-15.HYD

HYDROGRAPH ORDINATES (cfs)
Time increment = 1.00 Minutes
Time on left represents time for first Q in each row.

Time Minutes							
0.00	0.00	16.97	33.94	50.91	50.91	50.91	50.91
7.00	50.91	50.91	50.91	50.91	50.91	50.91	50.91
14.00	50.91	50.91	50.91	50.91	50.91	50.91	50.91
21.00	33.94	16.97	0.00	0.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	0.00			

>>>>> HYDROGRAPH PRINTOUT <<<<<

11-10-1990 08:25:42

Hydrograph File: 72188-1[illegible].HYD

HYDROGRAPH ORDINATES (cfs)

Time Minutes	Time Increment = 1.00 Minutes. Time on left represents time for first Q in each row.							
0.00	0.00	16.97	33.94	50.91	50.91	50.91	50.91	50.91
7.00	50.91	50.91	50.91	50.91	50.91	50.91	50.91	50.91
14.00	50.91	50.91	50.91	50.91	50.91	50.91	50.91	50.91
21.00	33.94	16.97	0.00	0.00	0.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	0.00				

POND-2 Version: 5.20 S/N:

>>>>> HYDROGRAPH PRINTOUT <<<<<

11-19-1999 08:49:12

Hydrograph file: 7218E-25.HYD

HYDROGRAPH ORDINATES (cfs)
Time increment = 1.00 Minutes
Time on left represents time for first Q in each row.

Time Minutes							
0.00	0.00	20.94	41.89	62.83	62.83	62.83	62.83
7.00	62.83	62.83	62.83	62.83	62.83	62.83	62.83
14.00	62.83	62.83	62.83	62.83	62.83	62.83	62.83
21.00	41.89	20.94	0.00	0.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	0.00			

... Version: 5.20 S/N:

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11-10-1996 08:40:12

Hydrograph file: 72186-25.HYD

HYDROGRAPH ORDINATES (cfs)

Time Minutes	Time increment = 7.00 Minutes. Time on left represents time for first Q in each row.						
0.00	0.00	20.94	41.89	62.83	62.83	62.83	62.83
7.00	62.83	62.83	62.83	62.83	62.83	62.83	62.83
14.00	[illegible]	[illegible]	[illegible]	[illegible]	62.83	[illegible]	[illegible]
21.00	41.89	20.94	0.00	0.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	0.00			

POND-2 Version: 5.20 S/N:

>>>>> HYDROGRAPH PRINTOUT <<<<<

11-19-1999 08:49:27

Hydrograph file: 7218E100.HYD

HYDROGRAPH ORDINATES (cfs)
Time increment = 1.00 Minutes
Time on left represents time for first Q in each row.

Time Minutes							
0.00	0.00	26.80	53.59	80.39	80.39	80.39	80.39
7.00	80.39	80.39	80.39	80.39	80.39	80.39	80.39
14.00	80.39	80.39	80.39	80.39	80.39	80.39	80.39
21.00	53.59	26.80	0.00	0.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	0.00			

Version: 5.20 S/N

>>>>> HYDROGRAPH PRINTOUT <<<<<

11-19-1995 08:49:27

Hydrograph file: 7Z1SR100.HYD

HYDROGRAPH ORDINATES (cfs)

Time	Time on left represents time for first Q in each row.						
Minutes	Time increment = 1.00 Minutes						
0.00	0.00	26.80	53.59	80.39	80.39	80.39	80.39
7.00	80.39	80.39	80.39	80.39	80.39	80.39	80.39
14.00	80.39	80.39	80.39	80.39	80.39	80.39	80.39
21.00	53.59	26.80	0.00	0.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	0.00			

POND-2 Version: 5.20
S/N:

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO 95-7218E
NOVEMBER 18, 1999

CALCULATED 11-19-1999 08:51:24
DISK FILE: 7218E .VOL

Planimeter scale: 1 inch = 50 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	* Volume (acre-ft)	Volume Sum (acre-ft)
471.00	0.00	0.00	0.00	0.00	0.00
472.00	1.64	0.09	0.09	0.03	0.03
474.00	6.51	0.37	0.65	0.44	0.47
476.00	13.44	0.77	1.68	1.12	1.59
478.00	17.38	1.00	2.65	1.76	3.35
480.00	20.47	1.18	3.26	2.17	5.52
482.00	23.63	1.36	3.79	2.53	8.05

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

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(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: 5.20
S/N:

[illegible]
BAX ENGINEERING PROJECT NO 95-7218B
NOVEMBER [illegible], 199[illegible]

CALCULATED [illegible]
DISK FILE: 7218B .VOL

Planimeter scale: 1 inch = 50 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (acre-ft)	Volume Sum (acre-ft)
471.00	0.00	0.00	0.00	0.00	0.00
472.00	1.64	0.09	0.09	0.03	0.03
[illegible]	5.54	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	0.77	[illegible]	[illegible]	[illegible]
[illegible]	17.38	1.00	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	23.63	1.36	3.79	2.53	8.05

* Incremental volume computed by the Conic Method for Reservoir Volumes

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(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

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

****

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

Elevation (ft)	Q (cfs)	Contributing Structures
471.00	0.0	1
471.30	0.3	1
471.60	0.9	1
471.90	1.7	1
472.20	2.6	1
472.50	0.0	2
472.80	4.8	1
473.10	6.1	1
473.40	7.4	1
473.70	8.9	1
474.00	10.4	1
474.30	12.0	1
474.60	13.7	1
474.90	14.9	2
475.20	15.8	2
475.50	16.7	2
475.80	17.5	2
476.10	18.3	2
476.40	19.0	2
476.70	19.7	2
477.00	20.4	2
477.30	21.1	2
477.60	21.7	2
477.90	22.4	2
478.20	23.0	2
478.50	23.6	2
478.80	24.2	2
479.10	24.7	2
479.40	25.3	2
479.70	25.8	2
480.00	26.4	2 +3
480.30	32.6	2 +3
480.60	43.7	2 +3
480.90	57.8	2 +3
481.20	74.4	2 +3
481.50	93.2	2 +3
481.80	113.9	2 +3
482.00	0.0	

Outlet Structure File: 7218E STR

POND-2 Version: 5.20 S/N:

[illegible]

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E

[illegible]

Elevation (ft)	Q (cfs)	Contributing Structures
471.00	0.0	1
[illegible]	[illegible]	[illegible]
471.50	0.0	[illegible]
471.80	1.7	1
[illegible]	[illegible]	1
472.50	0.0	2
472.80	4.8	1
[illegible]	[illegible]	[illegible]
473.40	[illegible]	1
473.70	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
474.30	12.0	1
474.60	13.7	1
[illegible]	[illegible]	[illegible]
475.20	[illegible]	[illegible]
475.50	[illegible]	2
[illegible]	[illegible]	[illegible]
476.10	18.3	2
476.40	19.0	2
[illegible]	[illegible]	[illegible]
477.00	[illegible]	[illegible]
477.30	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
477.90	22.4	2
478.20	23.0	2
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
479.10	24.[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
479.70	25.8	2
480.[illegible]	26.4	2 +3
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
481.[illegible]	[illegible]	2
[illegible]	[illegible]	[illegible]
481.50	93.2	2 +3
481.80	113.9	2 +3
[illegible]	0.0	[illegible]
[illegible]	[illegible]	[illegible]

Outlet Structure File: 7218E   .STR

POND-2 Version: 5.20   S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

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Outlet Structure File: 7218E   .STR
Planimeter Input File: 7218E   .VOL
Rating Table Output File: 7218E   .PND

Min. Elev.(ft) = 471   Max. Elev.(ft) = 482   Incr.(ft) = .3

Additional elevations (ft) to be included in table:
* *

****
SYSTEM CONNECTIVITY
****

Structure	No.	Q Table		Q Table
WEIR-VR	1		->	1
ORIFICE	2	? 1	->	A
WEIR-VR	3		->	3

Outflow rating table summary was stored in file:
7218E   .PND

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

****

PHEASANT POINT APARTMENTS
R/X ENGINEERING PROJECT NO. 95-7218E
[illegible]

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Outlet Structure File: 7218E .STR
Planimeter Input File: 7218E .VOL
Rating Table Output File: 7218E .PND

Min. Elev.(ft) = 471 Max. Elev.(ft) = [illegible] Incr.(ft) = 3

Additional elevations (ft) to be included in table:
* * * * * * * * * * * * * * * * * * * *

****
SYSTEM CONNECTIVITY
****

Structure	No.	Q Table	Q Table
[illegible]	1		
ORIFICE	2	1 -->	A
WEIR	3	<--	C

Outflow rating table summary was stored in file:
7218E .PND

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Outlet Structure File: 7218E   .STR

POND-2 Version: 5.20            S/N:
Date Executed:                  Time Executed:


          ************************************
                PHEASANT POINT APARTMENTS
          BAX ENGINEERING PROJECT NO. 95-7218E
                   NOVEMBER, 18, 1999

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

              WEIR-VR
              Weir - Vertical Rectangular


              E1 elev.(ft)?            471.00
              E2 elev.(ft)?            482.00
              Weir coefficient?        3.0
              Weir elev.(ft)?          471.0000
              Length (ft)?             .6666667
              Contracted/Suppressed (C/S)?  S
```

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:

Date Executed: Time Executed:

PLEASANT POINT APARTMENT

BAY ENGINEERING PROJECT NO. 95-7218E

[illegible]

\>>>>>> Structure No. 1 <<<<<<

(Input Data)

WEIR-VN

[illegible]

E1 elev (ft)? [illegible]

E2 elev (ft)? [illegible]

Weir coefficient? [illegible]

[illegible]

Length (ft)? .6666667

Contracted/Suppressed (C/S)? S

```
Outlet Structure File: 7218E   .STR

POND-2 Version: 5.20            S/N:
Date Executed:                  Time Executed:


          ************************************
                PHEASANT POINT APARTMENTS
          BAX ENGINEERING PROJECT NO. 95-7218E
                   NOVEMBER, 18, 1999

          ************************************


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

              ORIFICE
              Orifice - Based on Area and Datum Elevation


              E1 elev.(ft)?            472.5000
              E2 elev.(ft)?            482.00
              Orifice coeff.?          .6
              Invert elev.(ft)?        471.0000
              Datum elev.(ft) ?        472.5000
              Orifice area (sq ft)?    2.000000
```

Outlet Structure File: 7218E.STR

POND-2 Version: 5.20 S/N:

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E

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

ORIFICE
Orifice - Based on Area and Datum Elevation

E1 elev.(ft)? [illegible]
E2 elev.(ft)? 482.00
Orifice coeff.? [illegible]
Invert elev.(ft)? [illegible]
Datum elev.(ft)? 472.5000
Orifice area (sq ft)? 2.000000

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

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PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

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>>>>>> Structure No. 3 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev.(ft)?	480
E2 elev.(ft)?	482
Weir coefficient?	3.0
Weir elev.(ft)?	480
Length (ft)?	11.67
Contracted/Suppressed (C/S)?	S

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20   S/N
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAA ENGINEERING PROJECT NO. 95-7218E
NOVEMBER 16, 1999
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>>>>>> Structure No. 3 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev.(ft)?   400
E2 elev.(ft)?   400
Weir coefficient?   3.0
Weir elev.(ft)?   400
Length (ft)?   11.67
Contracted/Suppressed (C/S)? S

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

****

Outflow Rating Table for Structure #1
WEIR-VR Weir - Vertical Rectangular

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

Elevation (ft)	Q (cfs)	Computation Messages
471.00	0.0	H =0.0
471.30	0.3	H =.3
471.60	0.9	H =.6
471.90	1.7	H =.9
472.20	2.6	H =1.2
472.50	3.7	H =1.5
472.80	4.8	H =1.8
473.10	6.1	H =2.1
473.40	7.4	H =2.4
473.70	8.9	H =2.7
474.00	10.4	H =3.0
474.30	12.0	H =3.3
474.60	13.7	H =3.6
474.90	15.4	H =3.9
475.20	17.2	H =4.2
475.50	19.1	H =4.5
475.80	21.0	H =4.8
476.10	23.0	H =5.1
476.40	25.1	H =5.4
476.70	27.2	H =5.7
477.00	29.4	H =6.0
477.30	31.6	H =6.3
477.60	33.9	H =6.6
477.90	36.2	H =6.9
478.20	38.6	H =7.2
478.50	41.1	H =7.5
478.80	43.6	H =7.8
479.10	46.1	H =8.1
479.40	48.7	H =8.400
479.70	51.3	H =8.700
480.00	54.0	H =9.0
480.30	56.7	H =9.3
480.60	59.5	H =9.6
480.90	62.3	H =9.900

Outlet Structure File: 7214P   .STR

POND-2 Version: 5.20   S/N:

Date Executed: Time Executed:

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7214R
[illegible]

Outflow Rating Table for Structure #1

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

Elevation (ft)	Q (cfs)	Computation Messages
471.00	0.0	H =0.0
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
472.20	2.6	H =1.2
472.50	3.7	H =1.5
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
474.00	10.4	H =3.0
474.30	12.0	H =3.3
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
475.80	21.0	H =4.8
476.10	23.0	H =5.1
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
477.60	[illegible]	H =6.6
477.90	36.2	H =6.9
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
479.40	48.7	H =8.400
479.70	51.3	H =8.700
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

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Outflow Rating Table for Structure #1
WEIR-VR Weir - Vertical Rectangular

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

Elevation (ft)	Q (cfs)	Computation Messages
481.20	65.2	H =10.2
481.50	68.0	H =10.5
481.80	71.0	H =10.8
482.00	0.0	E = or > E2=482.00

C = 3 L (ft) = .6666667
H (ft) = Table elev. - Invert elev. (471 ft)
Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

Outlet Structure File: 7218B .STR

POND-2 Version: 5.20   S/N:
Date Executed: Time Executed:

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Outflow Rating Table for Structure #1
[illegible] Weir - Vertical Rectangular

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

Elevation (ft)	Q (cfs)	Computation Messages
484.20	65.2	H=1.[illegible]
[illegible]	68.0	H=10.8
[illegible]	71.0	H=10.[illegible]
[illegible]	0.0	[illegible]

C = 3   L (ft) = .0666667
H (ft) = Table elev. - Invert el. [illegible]
Q (cfs) = C * L * (H^1.5) -- Contracted Weir

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999
****

Outflow Rating Table for Structure #2
ORIFICE Orifice - Based on Area and Datum Elevation

Elevation (ft)	Q (cfs)	Computation Messages
471.00	0.0	E < E1=472.5000
471.30	0.0	E < E1=472.5000
471.60	0.0	E < E1=472.5000
471.90	0.0	E < E1=472.5000
472.20	0.0	E < E1=472.5000
472.50	0.0	H =0.0
472.80	5.3	H =.3
473.10	7.5	H =.6
473.40	9.1	H =.9
473.70	10.5	H =1.2
474.00	11.8	H =1.5
474.30	12.9	H =1.8
474.60	14.0	H =2.1
474.90	14.9	H =2.4
475.20	15.8	H =2.7
475.50	16.7	H =3.0
475.80	17.5	H =3.3
476.10	18.3	H =3.6
476.40	19.0	H =3.9
476.70	19.7	H =4.2
477.00	20.4	H =4.5
477.30	21.1	H =4.8
477.60	21.7	H =5.1
477.90	22.4	H =5.4
478.20	23.0	H =5.7
478.50	23.6	H =6.0
478.80	24.2	H =6.3
479.10	24.7	H =6.6
479.40	25.3	H =6.9
479.70	25.8	H =7.2
480.00	26.4	H =7.5
480.30	26.9	H =7.8
480.60	27.4	H =8.1
480.90	27.9	H =8.400

Inlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:

Date Executed: Time Executed:

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER 18, 1998

Outflow Rating Table for Structure #2
Outflow [illegible] Orifice [illegible] Based on Area and Datum Elevation

Elevation (ft)	Q (cfs)	Computation Messages
471.00	0.0	E < E1=472.5000
471.30	0.0	E < E1=472.5000
471.60	0.0	E < E1=472.5000
471.90	0.0	E < E1=472.5000
[illegible]	0.0	E < E1=472.5000
472.50	0.0	H =0.0
472.80	5.3	H =.3
[illegible]	[illegible]	H =.6
473.40	[illegible]	H =[illegible]
473.70	10.[illegible]	H =1.2
[illegible]	[illegible]	H =1.5
474.30	12.9	H =1.8
474.60	14.0	H =2.1
[illegible]	[illegible]	H =2.4
475.20	15.8	[illegible]
475.50	[illegible]	H =3.0
[illegible]	[illegible]	[illegible]
476.10	18.3	H =3.6
476.40	19.0	H =3.9
476.70	19.[illegible]	H =4.2
477.00	[illegible]	H =4.5
477.30	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
477.90	22.1	H =5.4
478.20	23.0	H =5.7
478.50	23.6	H =6.0
478.80	[illegible]	[illegible]
479.10	24.[illegible]	H =6.6
479.40	25.[illegible]	H =6.9
479.70	25.8	H =7.2
480.00	26.4	H =7.5
480.30	26.9	H =7.8
480.60	27.[illegible]	H =8.1
480.90	27.9	H =8.[illegible]

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

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Outflow Rating Table for Structure #2
ORIFICE Orifice - Based on Area and Datum Elevation

Elevation (ft)	Q (cfs)	Computation Messages
481.20	28.4	H =8.700
481.50	28.9	H =9.0
481.80	29.4	H =9.3
482.00	0.0	E = or > E2=482.00

C = .6 A = 2 sq.ft.
H (ft) = Table elev. - Datum elev. (472.5 ft)
Q (cfs) = C * A * sqr(2g * H)

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:

[illegible]

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Outflow Rating Table for Structure #2

[illegible]

Elevation (ft)	Q (cfs)	Computation Messages
481.20	28.4	H =8.700
[illegible]	[illegible]	[illegible]
481.80	29.4	[illegible]
482.00	0.0	E = or < E2=482.00

C = .6 A = 2 sq.ft
H (ft) = Table elev. - Datum elev (472.5 ft)

[illegible]

Outlet Structure File: 7218E .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

****

Outflow Rating Table for Structure #3
WEIR-VR Weir - Vertical Rectangular

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

Elevation (ft)	Q (cfs)	Computation Messages
471.00	0.0	E < Inv.El.= 480
471.30	0.0	E < Inv.El.= 480
471.60	0.0	E < Inv.El.= 480
471.90	0.0	E < Inv.El.= 480
472.20	0.0	E < Inv.El.= 480
472.50	0.0	E < Inv.El.= 480
472.80	0.0	E < Inv.El.= 480
473.10	0.0	E < Inv.El.= 480
473.40	0.0	E < Inv.El.= 480
473.70	0.0	E < Inv.El.= 480
474.00	0.0	E < Inv.El.= 480
474.30	0.0	E < Inv.El.= 480
474.60	0.0	E < Inv.El.= 480
474.90	0.0	E < Inv.El.= 480
475.20	0.0	E < Inv.El.= 480
475.50	0.0	E < Inv.El.= 480
475.80	0.0	E < Inv.El.= 480
476.10	0.0	E < Inv.El.= 480
476.40	0.0	E < Inv.El.= 480
476.70	0.0	E < Inv.El.= 480
477.00	0.0	E < Inv.El.= 480
477.30	0.0	E < Inv.El.= 480
477.60	0.0	E < Inv.El.= 480
477.90	0.0	E < Inv.El.= 480
478.20	0.0	E < Inv.El.= 480
478.50	0.0	E < Inv.El.= 480
478.80	0.0	E < Inv.El.= 480
479.10	0.0	E < Inv.El.= 480
479.40	0.0	E < Inv.El.= 480
479.70	0.0	E < Inv.El.= 480
480.00	0.0	H =0.0
480.30	5.8	H =.3
480.60	16.3	H =.6
480.90	29.9	H =.9

Outlet Structure File: 7218E .STR

POND-2 Version: 5.?? S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO 95-7.18E
NOVEMBER 12, 1996
****

Outflow Rating Table for Structure #
Weir - Vertical Rectangular

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

Elevation (ft)	Q (cfs)	Computation Messages
471.00	0.0	E < Inv.El. = 480
471.30	0.0	E < Inv.El. = 480
471.60	0.0	E < Inv.El. = 480
471.90	0.0	E < Inv.El. = 480
472.20	0.0	E < Inv.El. = 480
472.50	0.0	E < Inv.El. = 480
472.80	0.0	E < Inv.El. = 480
473.10	0.0	E < Inv.El. = 480
473.40	0.0	E < Inv.El. = 480
473.70	0.0	E < Inv.El. = 480
474.00	0.0	E < Inv.El. = 480
474.30	0.0	E < Inv.El. = 480
474.60	0.0	E < Inv.El. = 480
474.90	0.0	E < Inv.El. = 480
475.20	0.0	E < Inv.El. = 480
475.50	0.0	E < Inv.El. = 480
475.80	0.0	E < Inv.El. = 480
476.10	0.0	E < Inv.El. = 480
476.40	0.0	E < Inv.El. = 480
476.70	0.0	E < Inv.El. = 480
477.00	0.0	E < Inv.El. = 480
477.30	0.0	E < Inv.El. = 480
477.60	0.0	E < Inv.El. = 480
477.90	0.0	E < Inv.El. = 480
478.20	0.0	E < Inv.El. = 480
478.50	0.0	E < Inv.El. = 480
478.80	0.0	E < Inv.El. = 480
479.10	0.0	E < Inv.El. = 480
479.40	0.0	E < Inv.El. = 480
479.70	0.0	E < Inv.El. = 480
480.00	0.0	H=0.0
480.30	[illegible]	H = [illegible]
480.60	[illegible]	H = [illegible]
480.90	[illegible]	H = [illegible]

>>>>> CONTINUED from previous page <<<<<

Outflow Rating Table for Structure #3
WEIR-VR Weir - Vertical Rectangular

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

Elevation (ft)	Q (cfs)	Computation Messages
481.20	46.0	H =1.2
481.50	64.3	H =1.5
481.80	84.5	H =1.8
482.00	0.0	E = or > E2=482

C = 3 L (ft) = 11.67
H (ft) = Table elev. - Invert elev. (480 ft)
Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

Outlet Structure File: 7218E   .STR

POND-2 Version: 5.20   S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

****

Outflow Rating Table A
Table A = 1 ? 2

Elevation (ft)	Q (cfs)	Contributing Structures
471.00	0.0	1
471.30	0.3	1
471.60	0.9	1
471.90	1.7	1
472.20	2.6	1
472.50	0.0	2
472.80	4.8	1
473.10	6.1	1
473.40	7.4	1
473.70	8.9	1
474.00	10.4	1
474.30	12.0	1
474.60	13.7	1
474.90	14.9	2
475.20	15.8	2
475.50	16.7	2
475.80	17.5	2
476.10	18.3	2
476.40	19.0	2
476.70	19.7	2
477.00	20.4	2
477.30	21.1	2
477.60	21.7	2
477.90	22.4	2
478.20	23.0	2
478.50	23.6	2
478.80	24.2	2
479.10	24.7	2
479.40	25.3	2
479.70	25.8	2
480.00	26.4	2
480.30	26.9	2
480.60	27.4	2
480.90	27.9	2
481.20	28.4	2
481.50	28.9	2
481.80	29.4	2
482.00	0.0	-

Outlet Structure File: 7215P .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

PLEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7215E
NOVEMBER [illegible] 1995

Outflow Rating Table

Elevation (ft)	Q (cfs)	Contributing Structures
471.00	0.0	1
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
472.20	2.5	1
472.50	0.0	2
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
474.00	10.4	1
474.30	12.0	1
[illegible]	[illegible]	[illegible]
474.90	[illegible]	[illegible]
475.20	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
475.80	17.5	2
476.10	18.3	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
477.60	21.7	2
477.90	22.4	2
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
479.40	25.3	2
479.70	25.8	2
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	27.4	[illegible]
[illegible]	[illegible]	[illegible]
481.20	28.4	[illegible]
481.50	28.9	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Outlet Structure File: 7218 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

****

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

Elevation (ft)	Q (cfs)	Contributing Structures
471.00	0.0	
471.30	0.0	
471.60	0.0	
471.90	0.0	
472.20	0.0	
472.50	0.0	
472.80	0.0	
473.10	0.0	
473.40	0.0	
473.70	0.0	
474.00	0.0	
474.30	0.0	
474.60	0.0	
474.90	0.0	
475.20	0.0	
475.50	0.0	
475.80	0.0	
476.10	0.0	
476.40	0.0	
476.70	0.0	
477.00	0.0	
477.30	0.0	
477.60	0.0	
477.90	0.0	
478.20	0.0	
478.50	0.0	
478.80	0.0	
479.10	0.0	
479.40	0.0	
479.70	0.0	
480.00	0.0	
480.30	0.0	
480.60	0.0	
480.90	0.0	
481.20	3.1	3
481.50	12.4	3
481.80	25.1	3
482.00	0.0	

Outlet Structure File: 7218 .STR

POND-2 Version: 5.20 S/N:

Date Executed: Time Executed:

PHEASANT POINT APARTMENTS
BAY ENGINEERING PROJECT NO. 95-7218

Elevation (ft)	Q (cfs)	Contributing Structures
471.00	0.0	
[illegible]	[illegible]	
[illegible]	0.0	
[illegible]	0.0	
[illegible]	0.0	
472.50	0.0	
472.80	0.0	
[illegible]	[illegible]	
[illegible]	0.0	
[illegible]	0.0	
[illegible]	0.0	
474.30	0.0	
474.60	0.0	
[illegible]	[illegible]	
[illegible]	0.0	
[illegible]	[illegible]	
[illegible]	0.0	
476.10	0.0	
476.40	0.0	
[illegible]	[illegible]	
[illegible]	0.0	
[illegible]	0.0	
[illegible]	0.0	
477.[illegible]	0.0	
478.2[illegible]	0.0	
[illegible]	[illegible]	
478.[illegible]	0.0	
479.[illegible]	[illegible]	
[illegible]	0.0	
479.70	0.0	
480.00	0.0	
[illegible]	[illegible]	
[illegible]	0.0	
[illegible]	0.0	
[illegible]	[illegible]	
481.50	12.4	3
481.80	25.1	3
[illegible]	[illegible]	

Outlet Structure File: 7218   .STR

POND-2 Version: 5.20   S/N:
Date Executed: Time Executed:

****
PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

****

Outlet Structure File: 7218   .STR
Planimeter Input File: 7218E   .VOL
Rating Table Output File: 7218   .PND

Min. Elev.(ft) = 471   Max. Elev.(ft) = 482   Incr.(ft) = .3

Additional elevations (ft) to be included in table:
* *

****
SYSTEM CONNECTIVITY
****

Structure	No.	Q Table	Q Table
WEIR-VR	3	->	3

Outflow rating table summary was stored in file:
7218   .PND

POND-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:52:53


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****************************************
*                                      *
*       PHEASANT POINT APARTMENTS      *
*  BAX ENGINEERING PROJECT NO. 95-7218E *
*          NOVEMBER, 18, 1999          *
*                                      *
*                                      *
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Inflow Hydrograph: 7218E-02.HYD
Rating Table file: 7218E .PND

----INITIAL CONDITIONS----
Elevation = 471.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
471.00	0.0	0.000
471.30	0.3	0.001
471.60	0.9	0.007
471.90	1.7	0.023
472.20	2.6	0.052
472.80	4.8	0.140
473.10	6.1	0.201
473.40	7.4	0.275
473.70	8.9	0.364
474.00	10.4	0.468
474.30	12.0	0.587
474.60	13.7	0.722
474.90	14.9	0.874
475.20	15.8	1.044
475.50	16.7	1.232
475.80	17.5	1.439
476.10	18.3	1.666
476.40	19.0	1.906
476.70	19.7	2.155
477.00	20.4	2.414
477.30	21.1	2.683
477.60	21.7	2.963
477.90	22.4	3.254
478.20	23.0	3.554
478.50	23.6	3.862
478.80	24.2	4.179
479.10	24.7	4.503
479.40	25.3	4.835
479.70	25.8	5.175
480.00	26.4	5.523
480.30	32.6	5.880

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
0.0	0.0
1.2	1.5
9.8	10.7
33.1	34.8
75.5	78.1
203.6	208.4
292.3	298.4
399.9	407.3
528.2	537.1
679.0	689.4
852.6	864.6
1048.9	1062.6
1269.3	1284.2
1515.3	1531.1
1788.2	1804.9
2089.4	2106.9
2419.4	2437.7
2767.1	2786.1
3128.9	3148.6
3505.3	3525.7
3896.4	3917.5
4302.7	4324.4
4724.3	4746.7
5160.5	5183.5
5608.2	5631.8
6067.2	6091.4
6537.7	6562.4
7019.9	7045.2
7513.8	7539.6
8019.7	8046.1
8537.2	8569.8

PONDS Version 5.20
EXECUTED: 11-19-1995 09:52:58

NOVEMBER 18 1993

Rating Table file: 7218E .PRN

INITIAL CONDITIONS
Elevation = 471.00 ft
Outflow = 0.00 cfs

INTERMEDIATE ROUTING

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)		(cfs)	(cfs)
471.00	0.0	0.000		0.0	0.0
[illegible]2.80	4.8	0.140		[illegible]3.6	708.4
[illegible]	1.[illegible]	[illegible]		[illegible]2.3	[illegible]
474.60	13.7	0.722		1048.3	1062.6
474.90	14.[illegible]	0.874		1259.3	1284.2
476.40	19.0	1.[illegible]		[illegible]67.1	2786.1
476.70	19.7	2.135		[illegible]26.9	3145.9
478.20	23.0	3.5[illegible]		51[illegible]0.[illegible]	5183.5
478.50	23.6	3.8[illegible]		[illegible]08.2	[illegible]31.8
480.00	26.4	[illegible]523		[illegible]7	80[illegible]5.1
48[illegible].30	32.6	[illegible].880		[illegible]37.2	[illegible]

EXECUTED 11-19-1999 08:52:53
DISK FILES: 7218E-02.HYD ; 7218E .PND

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
480.60	43.7	6.244
480.90	57.8	6.616
481.20	74.4	6.997
481.50	93.2	7.386
481.80	113.9	7.783

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
9066.4	9110.1
9607.1	9664.9
10159.7	10234.1
10724.1	10817.3
11300.6	11414.5

Time increment (t) = 1.0 min.

EXECUTED: 11-19-1999 08:52:53

Pond File: 7218E .PND
Inflow Hydrograph: 7218E-02.HYD
Outflow Hydrograph: OUT .HYD

INFLOW HYDROGRAPH / ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	471.00
1.0	10.33	10.3	8.6	10.3	0.87	471.59
2.0	20.65	31.0	36.0	39.6	1.80	471.93
3.0	30.98	51.6	82.1	87.6	2.76	472.24
4.0	30.98	62.0	136.6	144.0	3.71	472.50
5.0	30.98	62.0	189.3	198.6	4.63	472.75
6.0	30.98	62.0	240.4	251.3	5.42	472.94
7.0	30.98	62.0	290.1	302.4	6.15	473.11
8.0	30.98	62.0	338.6	352.0	6.74	473.25
9.0	30.98	62.0	385.9	400.5	7.32	473.38
10.0	30.98	62.0	432.1	447.8	7.87	473.49
11.0	30.98	62.0	477.3	494.1	8.40	473.60
12.0	30.98	62.0	521.4	539.2	8.92	473.70
13.0	30.98	62.0	564.6	583.3	9.36	473.79
14.0	30.98	62.0	607.0	626.6	9.78	473.88
15.0	30.98	62.0	648.6	669.0	10.20	473.96
16.0	30.98	62.0	689.4	710.6	10.59	474.04
17.0	30.98	62.0	729.4	751.3	10.97	474.11
18.0	30.98	62.0	768.7	791.4	11.33	474.17
19.0	30.98	62.0	807.3	830.7	11.69	474.24
20.0	30.98	62.0	845.2	869.2	12.04	474.31
21.0	20.65	51.6	872.2	896.8	12.28	474.35
22.0	10.33	31.0	878.6	903.2	12.33	474.36
23.0	0.00	10.3	864.5	888.9	12.21	474.34
24.0	0.00	0.0	840.5	864.5	12.00	474.30
25.0	0.00	0.0	816.9	840.5	11.78	474.26
26.0	0.00	0.0	793.8	816.9	11.56	474.22
27.0	0.00	0.0	771.1	793.8	11.35	474.18
28.0	0.00	0.0	748.8	771.1	11.15	474.14
29.0	0.00	0.0	726.9	748.8	10.94	474.10
30.0	0.00	0.0	705.4	726.9	10.74	474.06
31.0	0.00	0.0	684.3	705.4	10.55	474.03

Pond File: [illegible]
Inflow Hydrograph: [illegible]
Outflow Hydrograph: OUT [illegible]

INFLOW HYDROGRAPH | ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	----	0.0	0.0	0.00	471.00
1.0	10.33	10.3	8.8	10.3	0.87	471.50
2.0	20.65	31.0	36.0	39.6	1.80	471.93
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.0	30.98	59.0	136.6	141.0	2.70	472.50
5.0	30.98	62.0	189.3	198.6	[illegible]	472.75
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7.0	30.98	62.0	390.1	402.4	6.15	473.33
8.0	30.98	62.0	432.6	[illegible]	6.74	473.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10.0	30.98	62.0	432.1	447.2	7.87	473.48
11.0	30.98	62.0	473.3	494.4	8.40	473.60
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13.0	30.98	62.0	564.6	583.3	9.36	473.79
14.0	30.98	62.0	607.0	626.6	9.78	473.9[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16.0	30.98	62.0	[illegible]	710.6	10.60	474.04
17.0	30.98	62.0	[illegible]	751.5	10.97	474.1[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19.0	30.98	62.0	807.3	8[illegible]0.7	11.69	474.2[illegible]
20.0	30.98	62.0	845.2	[illegible]9.2	12.04	474.3[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22.0	10.33	82.0	870.[illegible]	909.2	12.[illegible]	474.36
23.0	0.00	10.3	86[illegible]	880.0	12.[illegible]	474.3[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.0	0.00	0.0	816.9	84[illegible]	11.76	474.2[illegible]
26.0	0.00	0.0	793.8	[illegible]16.[illegible]	11.56	474.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28.0	0.00	0.0	[illegible]	771.[illegible]	11.15	474.1[illegible]
29.0	0.00	0.0	[illegible]	7[illegible]	10.94	474.10
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31.0	0.00	0.0	684.8	705.4	10.55	47[illegible]

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

Pond File:           7218E   .PND
Inflow Hydrograph:   7218E-02.HYD
Outflow Hydrograph: OUT      .HYD


Starting Pond W.S. Elevation =   471.00 ft

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

                      Peak Inflow    =    30.98 cfs
                      Peak Outflow   =    12.33 cfs
                      Peak Elevation =   474.36 ft

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

               Initial Storage           =     0.00 ac-ft
               Peak Storage From Storm   =     0.61 ac-ft
                                            ---------------
               Total Storage in Pond     =     0.61 ac-ft
```

POND-2 Version: 5.20 S/N:
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****************** SUMMARY OF ROUTING COMPUTATIONS ******************

Pond File : 72186 .PND
Inflow Hydrograph: 72182-02.HYD
Outflow Hydrograph: OUT .HYD

Starting Pond W.S. Elevation = 471.00 ft

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

Peak Inflow = 20.[illegible] cfs
Peak Outflow = [illegible] cfs
Peak Elevation = 472.86 ft

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

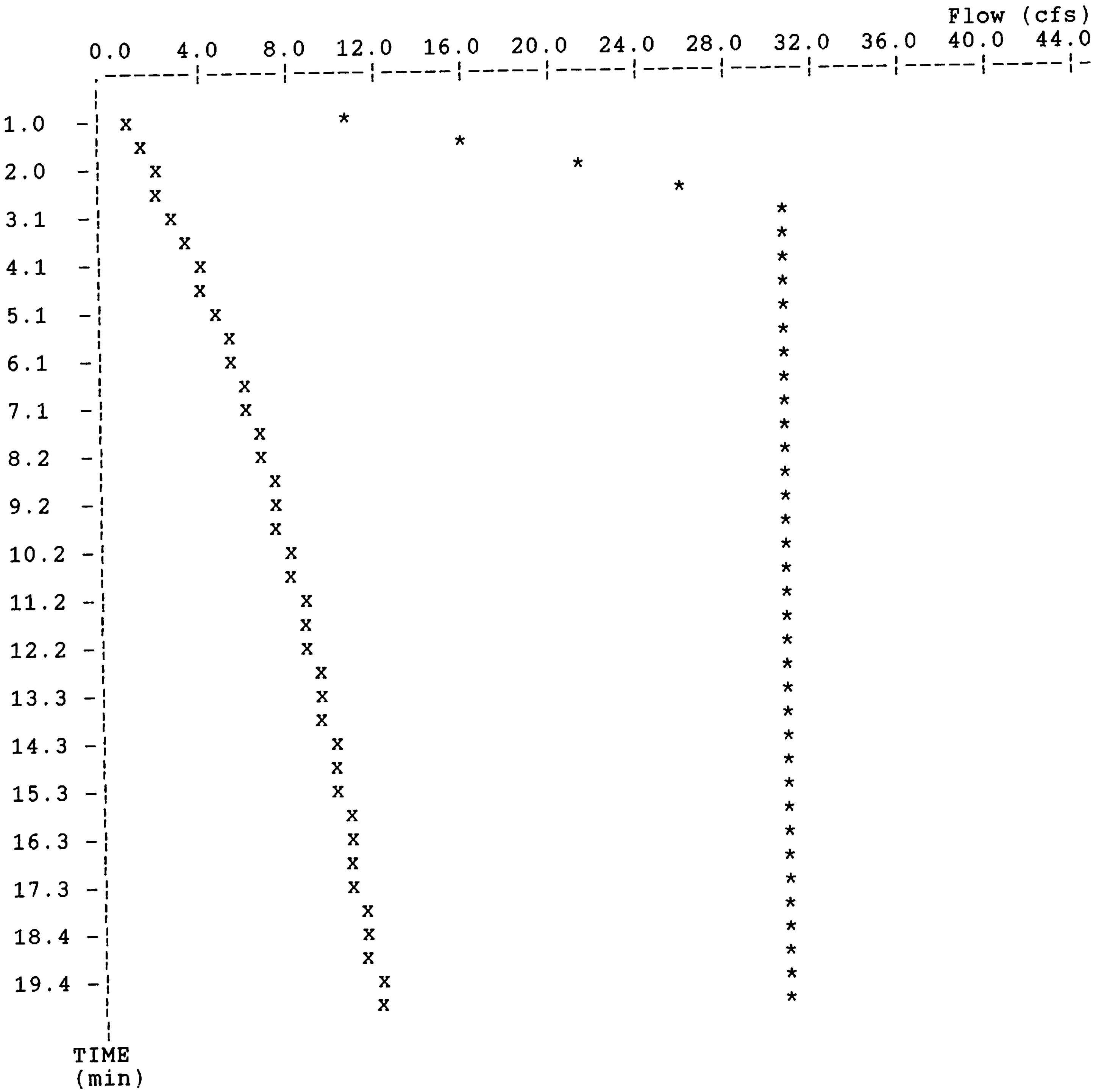
Initial Storage = 0.00 ac-ft
Peak Storage From Storm = 0.61 ac-ft
Total Storage in Pond = 0.61 ac-ft

POND-2 Version: 5.20 S/N:

Pond File: 7218E .PND
Inflow Hydrograph: 7218E-02.HYD
Outflow Hydrograph: OUT .HYD

EXECUTED: 11-19-1999
08:52:53

Peak Inflow = 30.98 cfs
Peak Outflow = 12.33 cfs
Peak Elevation = 474.36 ft



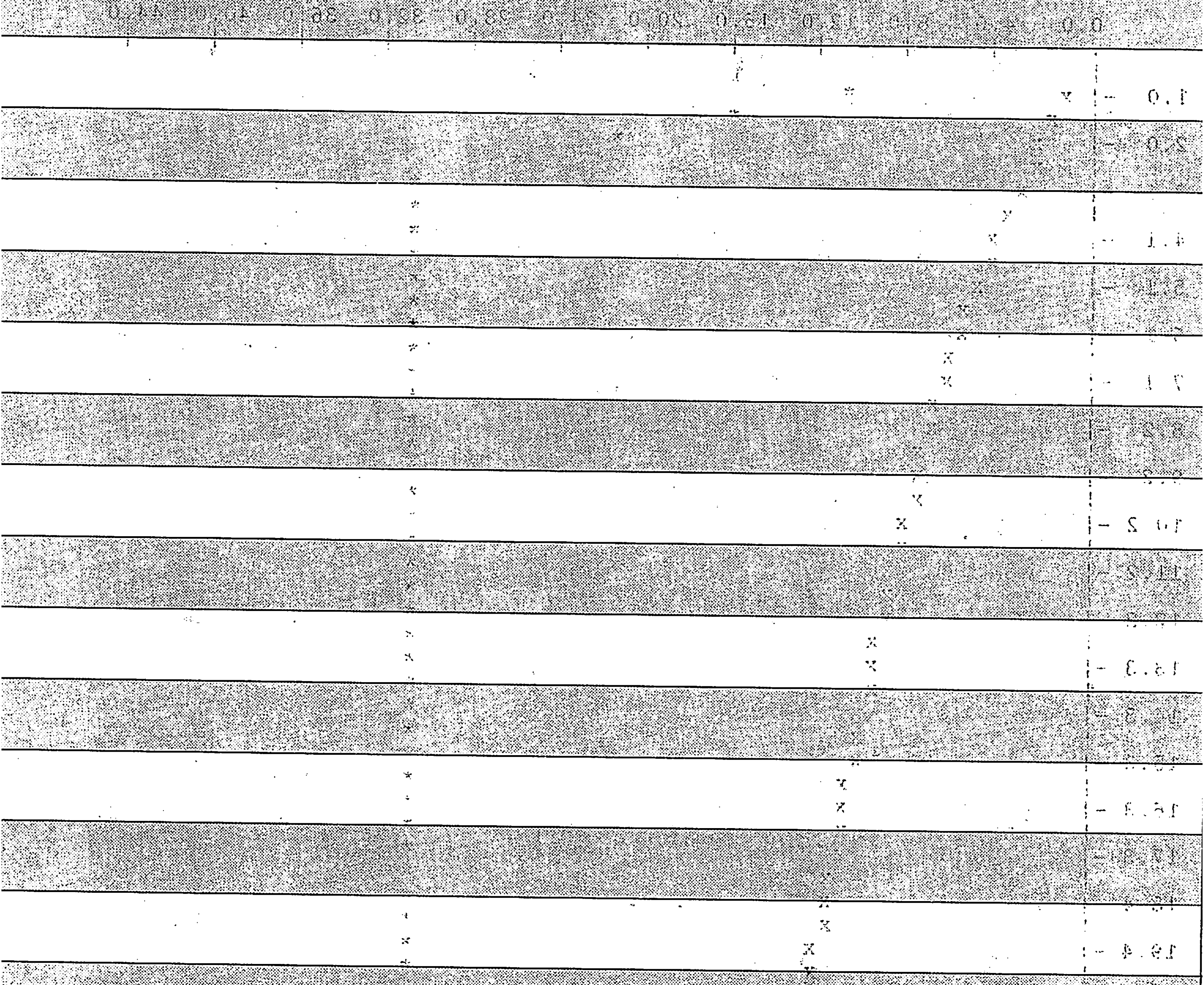
x File: OUT .HYD Qmax = 12.3 cfs
* File: 7218E-02.HYD Qmax = 31.0 cfs

POND-2 Version: 5.20 S/N:

Pond File: 7218E.PND
Inflow Hydrograph: 7218E-02.HYD
Overflow Hydrograph: OUT.HYD

Peak Inflow = [illegible] cfs
Peak Outflow = 12.33 cfs
Peak Elevation = 474.36 ft

Flow (cfs)



File: OUT.HYD Qmax = 12.3 cfs
File: 7218E-02.HYD Qmax = 21.0 cfs

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

Inflow Hydrograph: 7218E-15.HYD
Rating Table file: 7218E .PND

----INITIAL CONDITIONS----
Elevation = 471.00 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 + 0 (cfs)
471.00	0.0	0.000	0.0	0.0
471.30	0.3	0.001	1.2	1.5
471.60	0.9	0.007	9.8	10.7
471.90	1.7	0.023	33.1	34.8
472.20	2.6	0.052	75.5	78.1
472.80	4.8	0.140	203.6	208.4
473.10	6.1	0.201	292.3	298.4
473.40	7.4	0.275	399.9	407.3
473.70	8.9	0.364	528.2	537.1
474.00	10.4	0.468	679.0	689.4
474.30	12.0	0.587	852.6	864.6
474.60	13.7	0.722	1048.9	1062.6
474.90	14.9	0.874	1269.3	1284.2
475.20	15.8	1.044	1515.3	1531.1
475.50	16.7	1.232	1788.2	1804.9
475.80	17.5	1.439	2089.4	2106.9
476.10	18.3	1.666	2419.4	2437.7
476.40	19.0	1.906	2767.1	2786.1
476.70	19.7	2.155	3128.9	3148.6
477.00	20.4	2.414	3505.3	3525.7
477.30	21.1	2.683	3896.4	3917.5
477.60	21.7	2.963	4302.7	4324.4
477.90	22.4	3.254	4724.3	4746.7
478.20	23.0	3.554	5160.5	5183.5
478.50	23.6	3.862	5608.2	5631.8
478.80	24.2	4.179	6067.2	6091.4
479.10	24.7	4.503	6537.7	6562.4
479.40	25.3	4.835	7019.9	7045.2
479.70	25.8	5.175	7513.8	7539.6
480.00	26.4	5.523	8019.7	8046.1
480.30	32.6	5.880	8537.2	8569.8

PONDS ROUTING REPORTS
SAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

Inflow Hydrograph: [illegible]
Rating Table file: 7218E.PND

INITIAL CONDITIONS
Elevation = 471.00 ft
Outflow = 0.00 cfs
Storage = 0.000 ac-ft

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)		2S/t (cfs)	2S/t + O (cfs)
471.00	0.0	0.000		0.0	0.0
472.80	4.6	0.140		203.6	208.4
473.10	6.1	0.201		292.3	[illegible]
[illegible]	13.7	0.722		1048.9	1062.6
474.90	14.9	0.874		1269.3	1284.2
476.40	19.0	1.909		2767.1	2786.1
476.70	19.7	2.159		3128.9	3148.6
478.20	23.0	3.554		5160.5	5183.5
478.50	23.6	3.862		5608.2	5631.8
480.00	26.4	5.523		8019.7	8046.1
480.30	27.6	5.880		8537.2	8564.8

DISK FILES: 7218E-15.HYD ; 7218E .PND

GIVEN POND DATA			INTERMEDIATE ROUTING COMPUTATIONS	
ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + 0 (cfs)
480.60	43.7	6.244	9066.4	9110.1
480.90	57.8	6.616	9607.1	9664.9
481.20	74.4	6.997	10159.7	10234.1
481.50	93.2	7.386	10724.1	10817.3
481.80	113.9	7.783	11300.6	11414.5

Time increment (t) = 1.0 min.

EXECUTED 11-19-1999 08:53:15
DISK FILES: 7218B-15.HYD ; 7218B PND

INTERMEDIATE ROUTING COMPUTATIONS

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	57.8	[illegible]	[illegible]	[illegible]
481.20	74.4	[illegible]	[illegible]	10234.1
481.50	93.2	[illegible]	[illegible]	10817.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Time increment (t) = [illegible]

Pond File: 7218E .PND
Inflow Hydrograph: 7218E-15.HYD
Outflow Hydrograph: OUT .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	471.00
1.0	16.97	17.0	14.8	17.0	1.11	471.68
2.0	33.94	50.9	61.0	65.7	2.34	472.11
3.0	50.91	84.8	138.3	145.8	3.74	472.51
4.0	50.91	101.8	229.6	240.2	5.26	472.91
5.0	50.91	101.8	318.5	331.5	6.49	473.19
6.0	50.91	101.8	405.2	420.3	7.55	473.43
7.0	50.91	101.8	489.9	507.0	8.55	473.63
8.0	50.91	101.8	572.9	591.7	9.44	473.81
9.0	50.91	101.8	654.2	674.7	10.25	473.97
10.0	50.91	101.8	734.0	756.0	11.01	474.11
11.0	50.91	101.8	812.3	835.8	11.74	474.25
12.0	50.91	101.8	889.3	914.1	12.43	474.38
13.0	50.91	101.8	964.9	991.1	13.09	474.49
14.0	50.91	101.8	1039.3	1066.8	13.72	474.61
15.0	50.91	101.8	1112.9	1141.1	14.13	474.71
16.0	50.91	101.8	1185.7	1214.7	14.52	474.81
17.0	50.91	101.8	1257.6	1287.5	14.91	474.90
18.0	50.91	101.8	1329.1	1359.5	15.17	474.99
19.0	50.91	101.8	1400.1	1430.9	15.43	475.08
20.0	50.91	101.8	1470.5	1501.9	15.69	475.16
21.0	33.94	84.8	1523.6	1555.4	15.88	475.23
22.0	16.97	50.9	1542.6	1574.5	15.94	475.25
23.0	0.00	17.0	1527.8	1559.6	15.89	475.23
24.0	0.00	0.0	1496.2	1527.8	15.79	475.20
25.0	0.00	0.0	1464.9	1496.2	15.67	475.16
26.0	0.00	0.0	1433.8	1464.9	15.56	475.12
27.0	0.00	0.0	1402.9	1433.8	15.45	475.08
28.0	0.00	0.0	1372.2	1402.9	15.33	475.04
29.0	0.00	0.0	1341.8	1372.2	15.22	475.01
30.0	0.00	0.0	1311.5	1341.8	15.11	474.97
31.0	0.00	0.0	1281.5	1311.5	15.00	474.93

Pond File: [illegible] .PND
Inflow Hydrograph: [illegible] .HYD
Outflow Hydrograph: [illegible] .HYD

INFLOW HYDROGRAPH | ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
1.0	16.97	17.0	14.8	17.0	1.11	471.68
2.0	33.94	50.9	[illegible]	65.7	2.34	472.1[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7.0	50.91	101.8	489.9	[illegible]	8.55	473.6[illegible]
8.0	50.91	101.8	572.9	[illegible]	9.44	473.81
10.0	[illegible]	[illegible]	733.0	[illegible]	11.01	474.11
11.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13.0	50.91	101.8	964.9	[illegible]	13.09	474.4[illegible]
14.0	50.91	101.8	1039.3	[illegible]	13.72	474.6[illegible]
16.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	474.81
17.0	[illegible]	[illegible]	[illegible]	[illegible]	14.91	474.90
[illegible]	50.91	101.8	1400.1	[illegible]	15.43	475.0[illegible]
20.0	50.91	101.8	1470.5	[illegible]	15.69	475.1[illegible]
22.0	[illegible]	[illegible]	[illegible]	[illegible]	15.94	[illegible]
23.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.0	0.00	0.0	1464.9	[illegible]	15.67	475.16
26.0	0.00	0.0	1433.8	1464.9	15.56	475.12
28.0	0.00	[illegible]	[illegible]	[illegible]	15.33	475.04
29.0	0.00	[illegible]	[illegible]	[illegible]	15.22	475.01
[illegible]	0.00	0.0	1281.5	[illegible]	15.00	474.9[illegible]

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

Pond File:           7218E   .PND
Inflow Hydrograph:   7218E-15.HYD
Outflow Hydrograph:  OUT     .HYD


Starting Pond W.S. Elevation =   471.00 ft

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

                      Peak Inflow    =    50.91 cfs
                      Peak Outflow   =    15.94 cfs
                      Peak Elevation =   475.25 ft

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

               Initial Storage          =      0.00 ac-ft
               Peak Storage From Storm  =      1.07 ac-ft
                                          ---------------
               Total Storage in Pond    =      1.07 ac-ft
```

POND-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:22:15


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

Pond File: 7218[illegible].PND
Inflow Hydrograph: 7218[illegible]-15.HYD
Outflow Hydrograph: OUT[illegible].HYD

Starting Pond W.S. Elevation = 421.00 ft

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

Peak Inflow    =    50.[illegible]1 cfs
Peak Outflow   =    [illegible] cfs
Peak Elevation =    [illegible] ft

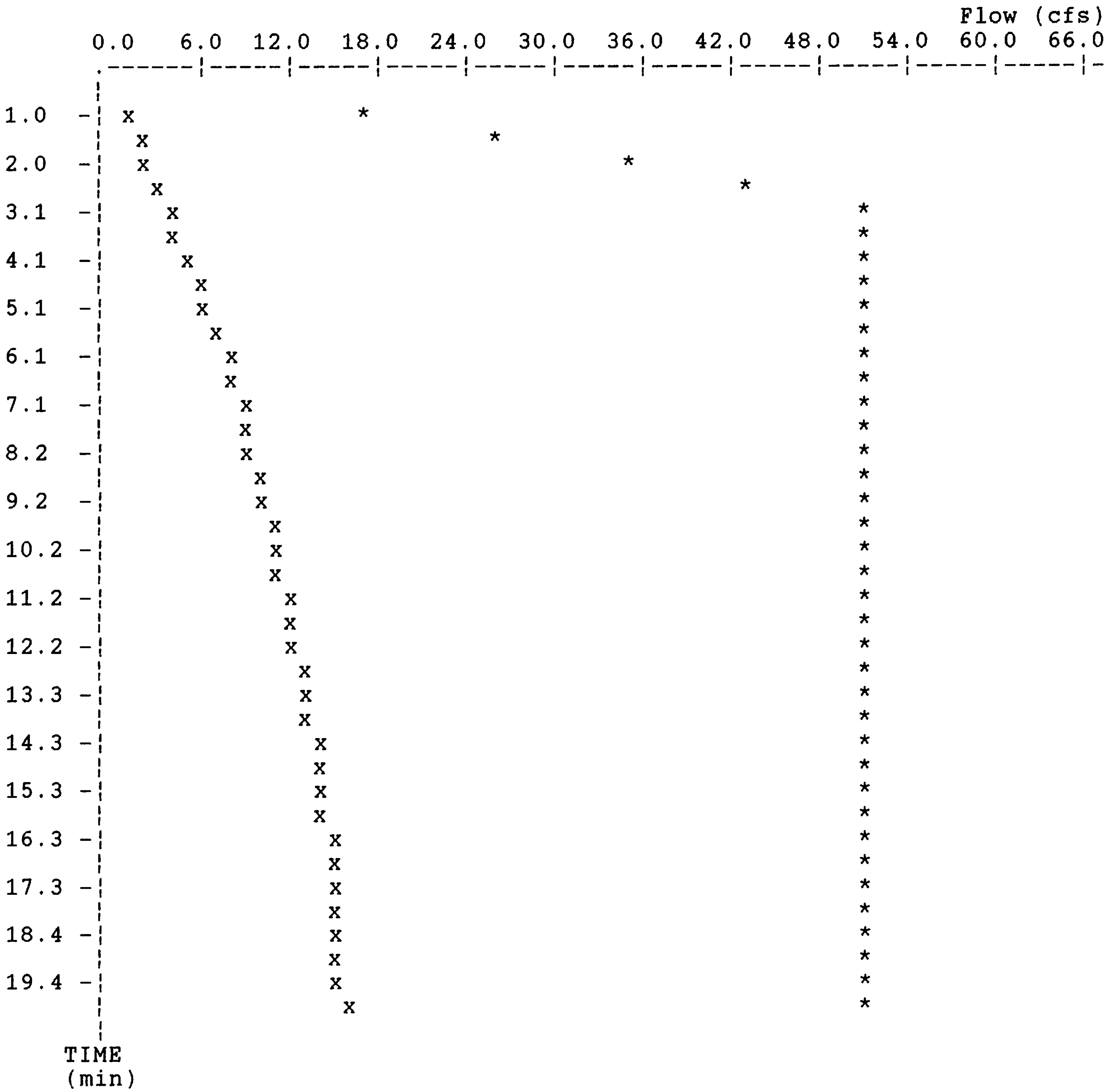
**** Summary of Approximate Peak Storage ****

Initial Storage          =    0.00 ac-ft
Peak Storage From Storm  =    1.07 ac-ft
                              -----------
Total Storage in Pond    =    1.07 ac-ft
```

Pond File: 7218E .PND
Inflow Hydrograph: 7218E-15.HYD
Outflow Hydrograph: OUT .HYD

EXECUTED: 11-19-1999
08:53:15

Peak Inflow = 50.91 cfs
Peak Outflow = 15.94 cfs
Peak Elevation = 475.25 ft



x File: OUT .HYD Qmax = 15.9 cfs
* File: 7218E-15.HYD Qmax = 50.9 cfs

PondPack Version: 5.20 S/N:

Pond File: 72188 .PND

Peak Outflow = 15.94 cfs
Peak Elevation = 475.25 ft

0.0 6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0 60.0 66.0

1.0 -
2.0 -
4.1 -
7.1 -
10 -
13.3 -
16.3 -

x File: OUT HYD Qmax = 15.9 cfs

POND-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:53:36

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

Inflow Hydrograph: 7218E-25.HYD
Rating Table file: 7218E .PND

----INITIAL CONDITIONS----
Elevation = 471.00 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 + 0 (cfs)
471.00	0.0	0.000	0.0	0.0
471.30	0.3	0.001	1.2	1.5
471.60	0.9	0.007	9.8	10.7
471.90	1.7	0.023	33.1	34.8
472.20	2.6	0.052	75.5	78.1
472.80	4.8	0.140	203.6	208.4
473.10	6.1	0.201	292.3	298.4
473.40	7.4	0.275	399.9	407.3
473.70	8.9	0.364	528.2	537.1
474.00	10.4	0.468	679.0	689.4
474.30	12.0	0.587	852.6	864.6
474.60	13.7	0.722	1048.9	1062.6
474.90	14.9	0.874	1269.3	1284.2
475.20	15.8	1.044	1515.3	1531.1
475.50	16.7	1.232	1788.2	1804.9
475.80	17.5	1.439	2089.4	2106.9
476.10	18.3	1.666	2419.4	2437.7
476.40	19.0	1.906	2767.1	2786.1
476.70	19.7	2.155	3128.9	3148.6
477.00	20.4	2.414	3505.3	3525.7
477.30	21.1	2.683	3896.4	3917.5
477.60	21.7	2.963	4302.7	4324.4
477.90	22.4	3.254	4724.3	4746.7
478.20	23.0	3.554	5160.5	5183.5
478.50	23.6	3.862	5608.2	5631.8
478.80	24.2	4.179	6067.2	6091.4
479.10	24.7	4.503	6537.7	6562.4
479.40	25.3	4.835	7019.9	7045.2
479.70	25.8	5.175	7513.8	7539.6
480.00	26.4	5.523	8019.7	8046.1
480.30	32.6	5.880	8537.2	8569.8

DELAWARE ... ENGINEERS
DVA engineering project no. 95-2105
NOVEMBER, 16 1999

Inflow Hydrograph: 72??-20.HYD
Rating Table file: 7215R .HYD

INITIAL CONDITIONS
Elevation = 471.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

INTERMEDIATE ROUTING COMPUTATIONS

Elevation (ft)	Outflow (cfs)	Storage (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
471.00	0.0	0.000	0.0	0.0
472.40	4.8	0.140	203.6	208.4
472.70	6.1	0.201	292.3	298.4
474.60	13.7	0.722	1048.9	1062.6
474.90	14.9	0.874	1269.3	1284.2
476.40	19.6	1.906	2767.1	2786.7
476.70	19.7	2.155	3128.9	3148.6
478.20	23.0	3.554	5160.5	5183.5
478.50	23.6	3.862	5608.2	5631.8
480.00	26.4	5.523	8019.7	8046.1
480.30	32.6	5.880	8537.2	8569.8

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
480.60	43.7	6.244
480.90	57.8	6.616
481.20	74.4	6.997
481.50	93.2	7.386
481.80	113.9	7.783

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
9066.4	9110.1
9607.1	9664.9
10159.7	10234.1
10724.1	10817.3
11300.6	11414.5

Time increment (t) = 1.0 min.

EXECUTED 11-10-1999 09:52:5
OTHER FILES: 72-98-25.HYD ; 7218R PND

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)		2S/t (cfs)	2S/t + O (cfs)
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
481.20	74.4	6.90[illegible]		10[illegible].7	102[illegible]4.1
481.50	95.2	7.386		107[illegible]4.1	10817.3
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]

EXECUTED: 11-19-1999 08:53:36

Pond File: 7218E .PND
Inflow Hydrograph: 7218E-25.HYD
Outflow Hydrograph: OUT .HYD

INFLOW HYDROGRAPH / ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	471.00
1.0	20.94	20.9	18.5	20.9	1.24	471.73
2.0	41.89	62.8	76.0	81.3	2.65	472.21
3.0	62.83	104.7	172.0	180.7	4.33	472.67
4.0	62.83	125.7	285.5	297.7	6.09	473.10
5.0	62.83	125.7	396.3	411.2	7.44	473.41
6.0	62.83	125.7	504.5	522.0	8.72	473.66
7.0	62.83	125.7	610.5	630.2	9.82	473.88
8.0	62.83	125.7	714.5	736.2	10.83	474.08
9.0	62.83	125.7	816.6	840.2	11.78	474.26
10.0	62.83	125.7	917.0	942.3	12.67	474.42
11.0	62.83	125.7	1015.6	1042.6	13.53	474.57
12.0	62.83	125.7	1113.0	1141.2	14.13	474.71
13.0	62.83	125.7	1209.3	1238.6	14.65	474.84
14.0	62.83	125.7	1304.8	1335.0	15.09	474.96
15.0	62.83	125.7	1399.6	1430.5	15.43	475.08
16.0	62.83	125.7	1493.7	1525.3	15.78	475.19
17.0	62.83	125.7	1587.2	1619.4	16.09	475.30
18.0	62.83	125.7	1680.1	1712.9	16.40	475.40
19.0	62.83	125.7	1772.3	1805.7	16.70	475.50
20.0	62.83	125.7	1864.1	1898.0	16.95	475.59
21.0	41.89	104.7	1934.5	1968.8	17.13	475.66
22.0	20.94	62.8	1962.9	1997.4	17.21	475.69
23.0	0.00	20.9	1949.5	1983.9	17.17	475.68
24.0	0.00	0.0	1915.4	1949.5	17.08	475.64
25.0	0.00	0.0	1881.4	1915.4	16.99	475.61
26.0	0.00	0.0	1847.6	1881.4	16.90	475.58
27.0	0.00	0.0	1814.0	1847.6	16.81	475.54
28.0	0.00	0.0	1780.5	1814.0	16.72	475.51
29.0	0.00	0.0	1747.3	1780.5	16.62	475.47
30.0	0.00	0.0	1714.2	1747.3	16.51	475.44
31.0	0.00	0.0	1681.4	1714.2	16.40	475.40

POND-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:53:36

Pond File: [illegible]
Inflow Hydrograph: [illegible]
Outflow Hydrograph: OUT[illegible]

INFLOW HYDROGRAPH | ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
1.0	20.94	20.9	15.5	[illegible]	.24	471.75
2.0	41.89	62.8	76.0	91.3	2.65	472.21
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7.0	62.[illegible]	125.7	610.0	630.2	9.82	473.68
8.0	62.83	125.7	714.5	[illegible]	10.55	474.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13.0	62.63	125.7	1200.3	1238.6	14.65	474.[illegible]
14.0	62.83	125.7	1314.6	1335.0	15.09	474.96
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	62.83	125.7	1772.3	[illegible]	16.70	475.[illegible]
[illegible]	62.83	125.7	1864.[illegible]	1898.[illegible]	16.95	475.5
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.0	0.00	0.0	1881.4	[illegible]	16.94	475.[illegible]
[illegible]	0.00	0.0	1847.6	[illegible]	16.90	475.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0.00	0.0	1681.4	[illegible]	16.40	475.[illegible]

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

```
Pond File:           7218E    .PND
Inflow Hydrograph:   7218E-25.HYD
Outflow Hydrograph:  OUT      .HYD

Starting Pond W.S. Elevation =   471.00 ft
```

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

```
Peak Inflow    =    62.83 cfs
Peak Outflow   =    17.21 cfs
Peak Elevation =   475.69 ft
```

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

```
Initial Storage          =      0.00 ac-ft
Peak Storage From Storm  =      1.36 ac-ft
                            ---------------
Total Storage in Pond    =      1.36 ac-ft
```

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

Pond File: [illegible]
Inflow Hydrograph: [illegible]
Outflow Hydrograph: [illegible]

Starting Pond W.S. Elevation = [illegible]

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

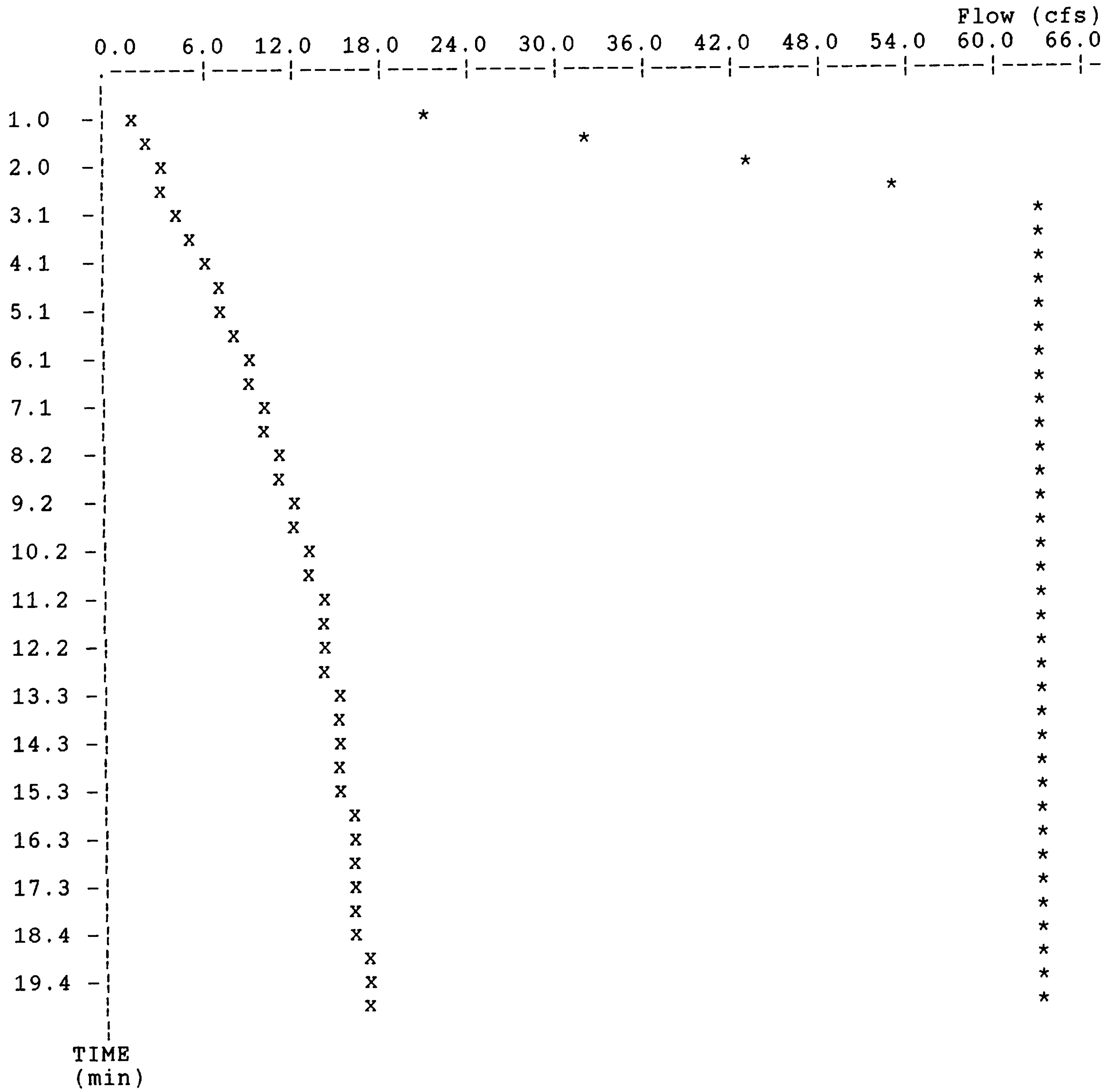
Peak Inflow = 62.13 cfs
Peak Outflow = [illegible]
Peak Elevation = [illegible]

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

Initial Storage = [illegible]
Peak Storage From Storm = [illegible]
Total Storage in Pond = [illegible]

POND-2 Version: 5.20 S/N:

```
Pond File:             7218E    .PND
Inflow Hydrograph:     7218E-25.HYD
Outflow Hydrograph:    OUT      .HYD
                                          EXECUTED: 11-19-1999
Peak Inflow    =     62.83 cfs                      08:53:36
Peak Outflow   =     17.21 cfs
Peak Elevation =    475.69 ft
```




```
x  File:  OUT      .HYD   Qmax =     17.2 cfs
*  File:  7218E-25.HYD   Qmax =     62.8 cfs
```

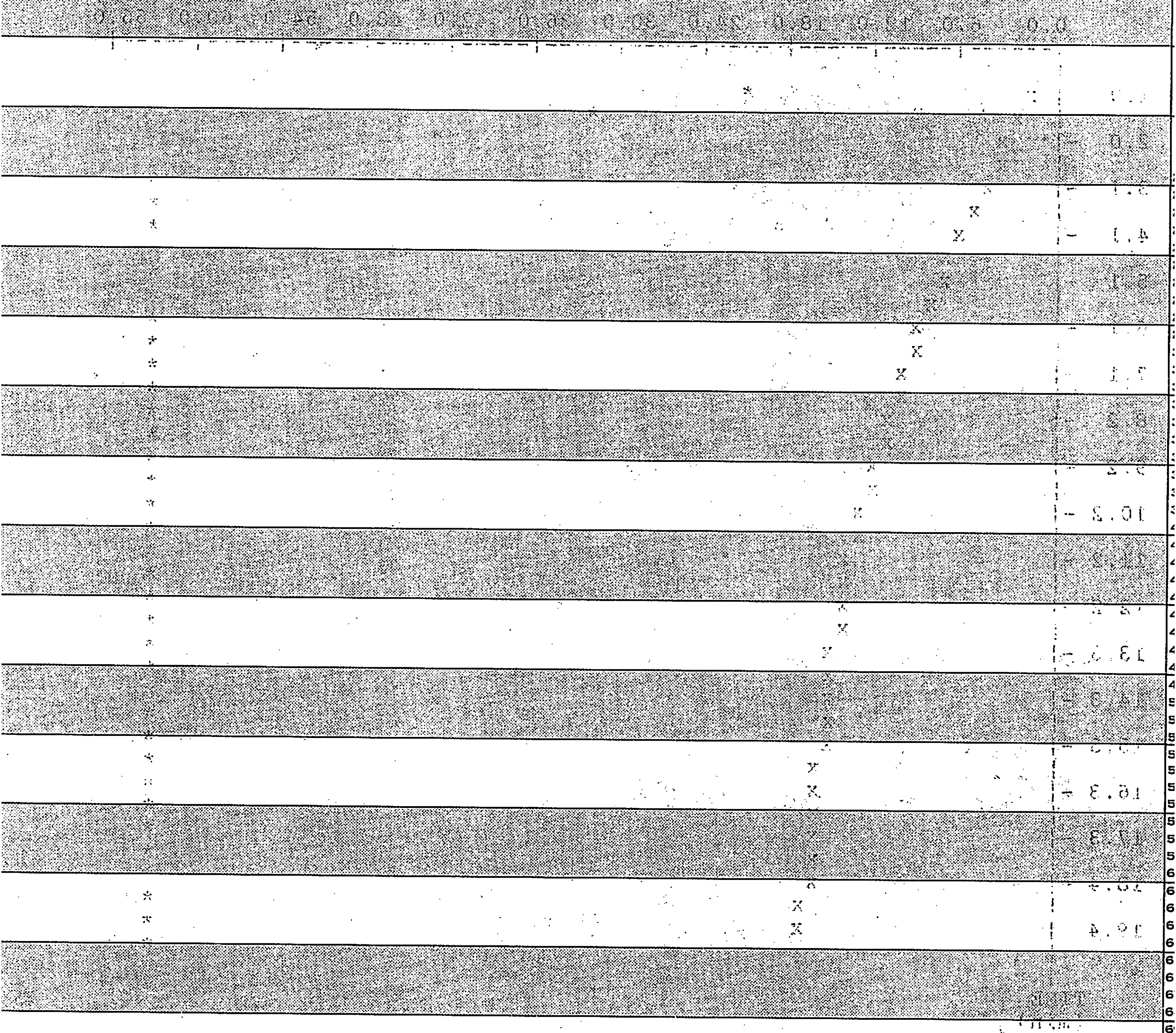
POND-2 Version: 5.20 S/N:

Pond File: 7218R .PND
Inflow Hydrograph: 7218R .HYD
Outflow Hydrograph: OUT .HYD

EXECUTED: 11-10-1998

Peak Inflow = 64.85 cfs
Peak Outflow = 17.21 cfs
Peak Elevation = 475.69 ft

Flow (cfs)



X File: OUT .HYD Qmax = 17.2 cfs
* File: 7218R .HYD Qmax = 64.8 cfs

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

Inflow Hydrograph: 7218E100.HYD
Rating Table file: 7218E .PND

----INITIAL CONDITIONS----
Elevation = 471.00 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 + 0 (cfs)
471.00	0.0	0.000	0.0	0.0
471.30	0.3	0.001	1.2	1.5
471.60	0.9	0.007	9.8	10.7
471.90	1.7	0.023	33.1	34.8
472.20	2.6	0.052	75.5	78.1
472.80	4.8	0.140	203.6	208.4
473.10	6.1	0.201	292.3	298.4
473.40	7.4	0.275	399.9	407.3
473.70	8.9	0.364	528.2	537.1
474.00	10.4	0.468	679.0	689.4
474.30	12.0	0.587	852.6	864.6
474.60	13.7	0.722	1048.9	1062.6
474.90	14.9	0.874	1269.3	1284.2
475.20	15.8	1.044	1515.3	1531.1
475.50	16.7	1.232	1788.2	1804.9
475.80	17.5	1.439	2089.4	2106.9
476.10	18.3	1.666	2419.4	2437.7
476.40	19.0	1.906	2767.1	2786.1
476.70	19.7	2.155	3128.9	3148.6
477.00	20.4	2.414	3505.3	3525.7
477.30	21.1	2.683	3896.4	3917.5
477.60	21.7	2.963	4302.7	4324.4
477.90	22.4	3.254	4724.3	4746.7
478.20	23.0	3.554	5160.5	5183.5
478.50	23.6	3.862	5608.2	5631.8
478.80	24.2	4.179	6067.2	6091.4
479.10	24.7	4.503	6537.7	6562.4
479.40	25.3	4.835	7019.9	7045.2
479.70	25.8	5.175	7513.8	7539.6
480.00	26.4	5.523	8019.7	8046.1
480.30	32.6	5.880	8537.2	8569.8

FORECAST POINT PARAMETERS

NOVEMBER 18, 1999

Rating Table file: [illegible]. PND

INITIAL CONDITIONS

Elevation = 471.00 [illegible]
Outflow = 0.00 cfs
Storage = [illegible]

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION	OUTFLOW (cfs)	STORAGE (ac-ft)		2S/t - O	2S/t + O
471.00	0.0	0.000		0.0	0.0
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
472.80	4.8	0.140		[illegible]	[illegible]
473.10	[illegible]	0.201		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
474.60	13.7	[illegible]		[illegible]	1062.6
474.90	[illegible]	[illegible]		[illegible]	1284.2
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
476.40	19.0	[illegible]		[illegible]	[illegible]
476.70	19.7	[illegible]		[illegible]	3148.6
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
478.20	23.0	3.554		5160.5	5183.5
478.50	[illegible]	3.862		5608.2	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
480.00	26.4	[illegible]		[illegible]	8046.1
480.30	32.6	5.880		[illegible]	[illegible]

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
480.60	43.7	6.244
480.90	57.8	6.616
481.20	74.4	6.997
481.50	93.2	7.386
481.80	113.9	7.783

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
9066.4	9110.1
9607.1	9664.9
10159.7	10234.1
10724.1	10817.3
11300.6	11414.5

Time increment (t) = 1.0 min.

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
480.60	43.[illegible]	[illegible]	9066.4	91[illegible]
480.[illegible]	57.[illegible]	[illegible]	[illegible]	[illegible]
481.20	74.4	6.997	10159.7	10234.1
481.50	93.2	7.359	10724.1	10817.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Pond File: 7218E .PND
Inflow Hydrograph: 7218E100.HYD
Outflow Hydrograph: OUT .HYD

INFLOW HYDROGRAPH — ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	471.00
1.0	26.80	26.8	23.9	26.8	1.43	471.80
2.0	53.59	80.4	98.2	104.3	3.04	472.32
3.0	80.39	134.0	221.9	232.2	5.14	472.88
4.0	80.39	160.8	368.5	382.7	7.11	473.33
5.0	80.39	160.8	511.7	529.3	8.81	473.68
6.0	80.39	160.8	652.0	672.4	10.23	473.97
7.0	80.39	160.8	789.7	812.8	11.53	474.21
8.0	80.39	160.8	925.0	950.5	12.74	474.43
9.0	80.39	160.8	1058.1	1085.8	13.83	474.63
10.0	80.39	160.8	1189.8	1218.9	14.55	474.81
11.0	80.39	160.8	1320.3	1350.6	15.14	474.98
12.0	80.39	160.8	1449.9	1481.1	15.62	475.14
13.0	80.39	160.8	1578.5	1610.6	16.06	475.29
14.0	80.39	160.8	1706.3	1739.3	16.48	475.43
15.0	80.39	160.8	1833.4	1867.1	16.86	475.56
16.0	80.39	160.8	1959.8	1994.2	17.20	475.69
17.0	80.39	160.8	2085.5	2120.5	17.53	475.81
18.0	80.39	160.8	2210.6	2246.3	17.84	475.93
19.0	80.39	160.8	2335.1	2371.4	18.14	476.04
20.0	80.39	160.8	2459.0	2495.9	18.42	476.15
21.0	53.59	134.0	2555.8	2593.0	18.61	476.23
22.0	26.80	80.4	2598.8	2636.2	18.70	476.27
23.0	0.00	26.8	2588.2	2625.6	18.68	476.26
24.0	0.00	0.0	2551.0	2588.2	18.60	476.23
25.0	0.00	0.0	2514.0	2551.0	18.53	476.20
26.0	0.00	0.0	2477.1	2514.0	18.45	476.17
27.0	0.00	0.0	2440.3	2477.1	18.38	476.13
28.0	0.00	0.0	2403.7	2440.3	18.31	476.10
29.0	0.00	0.0	2367.2	2403.7	18.22	476.07
30.0	0.00	0.0	2331.0	2367.2	18.13	476.04
31.0	0.00	0.0	2294.9	2331.0	18.04	476.00

Pond-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:53:52

Inflow Hydrograph: [illegible]100.HYD
Outflow Hydrograph: [illegible].HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
1.0	26.80	26.8	23.9	26.8	1.45	471.9[illegible]
2.0	53.59	80.4	99.2	104.3	3.04	472.[illegible]
4.0	[illegible]	160.8	[illegible]	[illegible]	[illegible]	[illegible]
5.0	80.39	160.8	[illegible]	[illegible]	[illegible]	[illegible]
7.0	80.39	160.8	789.[illegible]	817.8	11.73	474.[illegible]
8.0	80.39	160.8	925.0	950.5	12.74	474.4[illegible]
10.0	80.39	160.8	[illegible]	[illegible]	[illegible]	[illegible]
11.0	[illegible]	160.8	[illegible]	[illegible]	[illegible]	[illegible]
13.0	80.39	160.8	[illegible]	[illegible]	15.06	475.2[illegible]
14.0	80.39	160.8	1706.3	[illegible]	16.48	475.40
16.0	80.39	160.8	[illegible]	[illegible]	[illegible]	475.6[illegible]
17.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19.0	80.39	160.8	2335.1	2371.4	18.14	476.[illegible]
20.0	80.39	160.8	2459.0	2495.9	18.44	476.[illegible]
22.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.0	0.00	0.0	2514.0	2551.0	18.53	476.[illegible]
26.0	0.00	0.0	2477.1	2514.0	18.45	476.[illegible]
28.0	0.00	0.0	2405.[illegible]	2440.[illegible]	[illegible]	476.[illegible]
29.0	0.00	0.0	2367.[illegible]	[illegible]	[illegible]	[illegible]
31.0	0.00	0.0	2294.9	2331.0	18.04	476.[illegible]

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

Pond File:           7218E   .PND
Inflow Hydrograph:   7218E100.HYD
Outflow Hydrograph: OUT     .HYD


Starting Pond W.S. Elevation =   471.00 ft

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

                      Peak Inflow    =    80.39 cfs
                      Peak Outflow   =    18.70 cfs
                      Peak Elevation =   476.27 ft

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

               Initial Storage          =     0.00 ac-ft
               Peak Storage From Storm  =     1.80 ac-ft
                                           ---------------
               Total Storage in Pond    =     1.80 ac-ft
```

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

Pond File: [illegible]
Inflow Hydrograph: [illegible]
Outflow Hydrograph: [illegible]

Starting Pond W.S. Elevation = [illegible] ft

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

Peak Inflow = [illegible] cfs
Peak Outflow = [illegible]
Peak Elevation = [illegible] ft

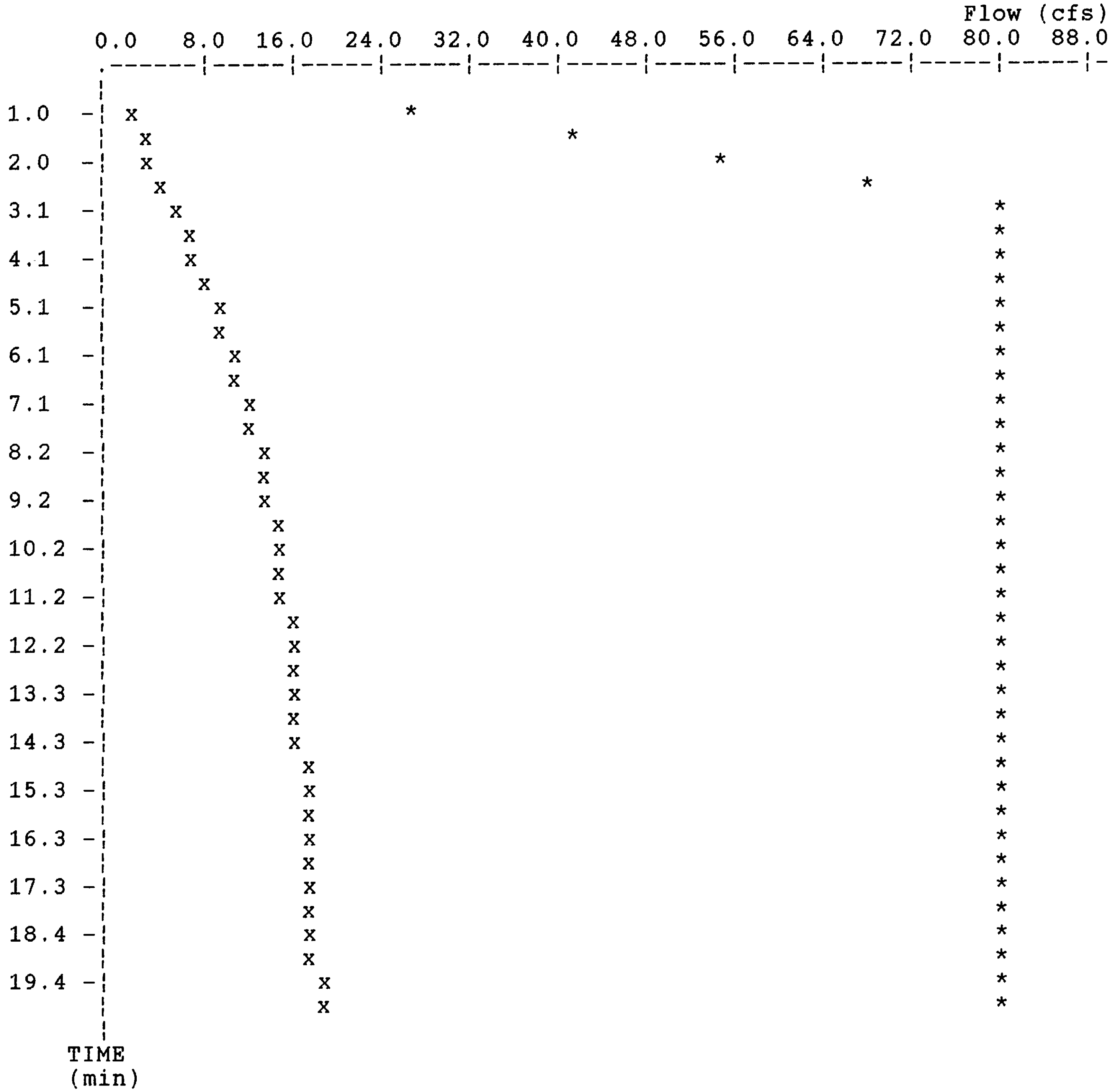
***** Summary of Approximate Peak Storage *****

Initial Storage = [illegible]
Peak Storage From Storm = [illegible] ac-ft
Total Storage in Pond = [illegible]

Pond File: 7218E .PND
Inflow Hydrograph: 7218E100.HYD
Outflow Hydrograph: OUT .HYD

EXECUTED: 11-19-1999
08:53:52

Peak Inflow = 80.39 cfs
Peak Outflow = 18.70 cfs
Peak Elevation = 476.27 ft



x File: OUT .HYD Qmax = 18.7 cfs
* File: 7218E100.HYD Qmax = 80.4 cfs

Pond File: [illegible]

Outflow Hydrograph: OUT [illegible]

Peak Inflow = [illegible] cfs

Peak Outflow = 18.70 cfs

Peak Elevation = 476.77 ft

Flow (cfs)

0.0 8.0 16.0 24.0 32.0 40.0 48.0 56.0 64.0 72.0 80.0 88.0

File: OUT HYD Qmax = 18.7 cfs

PHEASANT POINT APARTMENTS
BAX ENGINEERING PROJECT NO. 95-7218E
NOVEMBER, 18, 1999

Inflow Hydrograph: 7218E-02.HYD
Rating Table file: 7218 .PND

----INITIAL CONDITIONS----
Elevation = 471.00 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 + 0 (cfs)
471.00	0.0	0.000	0.0	0.0
471.30	0.0	0.001	1.2	1.2
471.60	0.0	0.007	9.8	9.8
471.90	0.0	0.023	33.1	33.1
472.20	0.0	0.052	75.5	75.5
472.50	0.0	0.091	131.9	131.9
472.80	0.0	0.140	203.6	203.6
473.10	0.0	0.201	292.3	292.3
473.40	0.0	0.275	399.9	399.9
473.70	0.0	0.364	528.2	528.2
474.00	0.0	0.468	679.0	679.0
474.30	0.0	0.587	852.6	852.6
474.60	0.0	0.722	1048.9	1048.9
474.90	0.0	0.874	1269.3	1269.3
475.20	0.0	1.044	1515.3	1515.3
475.50	0.0	1.232	1788.2	1788.2
475.80	0.0	1.439	2089.4	2089.4
476.10	0.0	1.666	2419.4	2419.4
476.40	0.0	1.906	2767.1	2767.1
476.70	0.0	2.155	3128.9	3128.9
477.00	0.0	2.414	3505.3	3505.3
477.30	0.0	2.683	3896.4	3896.4
477.60	0.0	2.963	4302.7	4302.7
477.90	0.0	3.254	4724.3	4724.3
478.20	0.0	3.554	5160.5	5160.5
478.50	0.0	3.862	5608.2	5608.2
478.80	0.0	4.179	6067.2	6067.2
479.10	0.0	4.503	6537.7	6537.7
479.40	0.0	4.835	7019.9	7019.9
479.70	0.0	5.175	7513.8	7513.8
480.00	0.0	5.523	8019.7	8019.7

NOVEMBER, [illegible]

Rating Table file: 7218 POND

INITIAL CONDITIONS

Elevation = 471.00 ft
Outflow = 0.00 cfs

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
471.00	0.0	0.000	0.0	0.0
472.50	0.0	0.091	131.9	131.9
472.80	0.0	0.140	203.[illegible]	203.[illegible]
474.30	0.0	0.587	852.6	852.6
474.60	0.0	0.7[illegible]	1042.9	1042.9
476.10	0.0	1.666	2419.4	2419.4
476.40	0.0	1.906	2767.1	2767.1
477.90	0.0	3.254	4724.3	4724.3
478.20	0.0	3.554	5160.5	5160.5
479.70	0.0	5.175	7513.8	7513.8
480.00	0.0	5.5[illegible]	[illegible]19.7	[illegible]19.7

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
480.30	0.0	5.880
480.60	0.0	6.244
480.90	0.0	6.616
481.20	3.1	6.997
481.50	12.4	7.386
481.80	25.1	7.783

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
8537.2	8537.2
9066.4	9066.4
9607.1	9607.1
10159.7	10162.8
10724.1	10736.5
11300.6	11325.7

Time increment (t) = 1.0 min.

[illegible] FILES: 7218E-02.HYD : 7218 .PND

[illegible]

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
[illegible]	0.0	[illegible]	[illegible]	[illegible]
[illegible]	0.0	[illegible]	[illegible]	[illegible]
480.90	0.0	6.616	9607.1	9607.1
481.20	3.1	6.997	10159.7	10162.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Time increment (t) = 1.0 min.

POND-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:54:11

Pond File: 7218 .PND
Inflow Hydrograph: 7218E-02.HYD
Outflow Hydrograph: OUT .HYD

INFLOW HYDROGRAPH

TIME (min)	INFLOW (cfs)
0.0	0.00
1.0	10.33
2.0	20.65
3.0	30.98
4.0	30.98
5.0	30.98
6.0	30.98
7.0	30.98
8.0	30.98
9.0	30.98
10.0	30.98
11.0	30.98
12.0	30.98
13.0	30.98
14.0	30.98
15.0	30.98
16.0	30.98
17.0	30.98
18.0	30.98
19.0	30.98
20.0	30.98
21.0	20.65
22.0	10.33
23.0	0.00
24.0	0.00
25.0	0.00
26.0	0.00
27.0	0.00
28.0	0.00
29.0	0.00
30.0	0.00
31.0	0.00

ROUTING COMPUTATIONS

I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
-----	0.0	0.0	0.00	471.00
10.3	10.3	10.3	0.00	471.61
31.0	41.3	41.3	0.00	471.96
51.6	92.9	92.9	0.00	472.29
62.0	154.9	154.9	0.00	472.60
62.0	216.9	216.9	0.00	472.84
62.0	278.8	278.8	0.00	473.05
62.0	340.8	340.8	0.00	473.24
62.0	402.7	402.7	0.00	473.41
62.0	464.7	464.7	0.00	473.55
62.0	526.7	526.7	0.00	473.70
62.0	588.6	588.6	0.00	473.82
62.0	650.6	650.6	0.00	473.94
62.0	712.5	712.5	0.00	474.06
62.0	774.5	774.5	0.00	474.17
62.0	836.5	836.5	0.00	474.27
62.0	898.4	898.4	0.00	474.37
62.0	960.4	960.4	0.00	474.46
62.0	1022.3	1022.3	0.00	474.56
62.0	1084.3	1084.3	0.00	474.65
62.0	1146.3	1146.3	0.00	474.73
51.6	1197.9	1197.9	0.00	474.80
31.0	1228.9	1228.9	0.00	474.84
10.3	1239.2	1239.2	0.00	474.86
0.0	1239.2	1239.2	0.00	474.86
0.0	1239.2	1239.2	0.00	474.86
0.0	1239.2	1239.2	0.00	474.86
0.0	1239.2	1239.2	0.00	474.86
0.0	1239.2	1239.2	0.00	474.86
0.0	1239.2	1239.2	0.00	474.86
0.0	1239.2	1239.2	0.00	474.86
0.0	1239.2	1239.2	0.00	474.86

Inflow Hydrograph: 72150-02.HYD [illegible]
Outflow Hydrograph: [illegible]

INFLOW HYDROGRAPH | ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	H1+H2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
1.0	10.33	10.3	10.3	10.3	0.00	471.5[illegible]
2.0	20.65	31.0	41.3	41.3	0.00	471.9[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7.0	30.98	62.0	340.8	340.[illegible]	0.00	472.[illegible]
8.0	30.98	62.0	402.7	402.7	0.00	473.4[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13.0	30.98	62.0	712.5	712.[illegible]	0.00	474.[illegible]
14.0	30.98	62.0	774.5	774.5	0.00	474.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19.0	30.98	62.0	1084.3	1084.3	0.00	474.65
20.0	30.98	62.0	1146.3	1146.3	0.00	474.7[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.0	0.00	0.0	1239.2	1239.2	0.00	474.8[illegible]
26.0	0.00	0.0	1239.2	1239.2	0.00	474.86
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0.00	0.0	1239.2	1239.2	0.00	474.8[illegible]

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

Pond File: 7218 .PND
Inflow Hydrograph: 7218E-02.HYD
Outflow Hydrograph: OUT .HYD

Starting Pond W.S. Elevation = 471.00 ft

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

Peak Inflow = 30.98 cfs
Peak Outflow = 0.00 cfs
Peak Elevation = 474.86 ft

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

Initial Storage	=	0.00 ac-ft
Peak Storage From Storm	=	0.85 ac-ft

Total Storage in Pond	=	0.85 ac-ft

>>>>>> Warning, peak outflow = last ordinate point. <<<<<<

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

Pond File : 7[illegible]
Inflow Hydrograph: [illegible]PR-02.H[illegible]
Outflow Hydrograph: [illegible]OUT [illegible]

Starting Pond W.S. Elevation = [illegible] ft

Summary of Peak Outflow and Peak Elevation

Peak Inflow = 30.98 cfs
Peak Outflow = 0.00 cfs
Peak Elevation = [illegible] ft

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

Initial Storage = 0.00 ac-ft
Peak Storage From Storm = 0.85 ac-ft
Total Storage in Pond = 0.[illegible]5 ac-ft

Warning: [illegible] point

```
       >>>>>> Warning, peak outflow = last ordinate point. <<<<<<
     POND-2 Version: 5.20 S/N:                                   Page 5

     Pond File:              7218    .PND
     Inflow Hydrograph:      7218E-02.HYD
     Outflow Hydrograph:     OUT     .HYD
                                                       EXECUTED: 11-19-1999
     Peak Inflow    =        30.98 cfs                           08:54:11
     Peak Outflow   =         0.00 cfs
     Peak Elevation =       474.86 ft

                                                                 Flow (cfs)
       0.0   4.0   8.0  12.0  16.0  20.0  24.0  28.0  32.0  36.0  40.0  44.0
       .------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-
       |
 1.0  -|x               *
       |x                       *
 2.0  -|x                               *
       |x                                      *
 3.1  -|x                                             *
       |x                                             *
 4.1  -|x                                             *
       |x                                             *
 5.1  -|x                                             *
       |x                                             *
 6.1  -|x                                             *
       |x                                             *
 7.1  -|x                                             *
       |x                                             *
 8.2  -|x                                             *
       |x                                             *
 9.2  -|x                                             *
       |x                                             *
10.2  -|x                                             *
       |x                                             *
11.2  -|x                                             *
       |x                                             *
12.2  -|x                                             *
       |x                                             *
13.3  -|x                                             *
       |x                                             *
14.3  -|x                                             *
       |x                                             *
15.3  -|x                                             *
       |x                                             *
16.3  -|x                                             *
       |x                                             *
17.3  -|x                                             *
       |x                                             *
18.4  -|x                                             *
       |x                                             *
19.4  -|x                                             *
       |x                                             *
       |
     TIME
     (min)

   x  File:  OUT     .HYD   Qmax =      0.0 cfs
   *  File:  7218E-02.HYD   Qmax =     31.0 cfs
```

<<<<<< Warning, peak outflow = last ordinate point. >>>>>>

POND-2 Version: 5.20 S/N: Page 5

Pond File: [illegible] DPD
Inflow Hydrograph: [illegible]28E-02.HYD
Outflow Hydrograph: [illegible].OUT

EXECUTED: 11-15-1999
08:54:11

Peak Inflow = 30.96 cfs
Peak Outflow = [illegible] cfs
Peak Elevation = [illegible] ft

Flow (cfs)

0.0 4.0 8.0 12.0 16.0 20.0 24.0 28.0 32.0 36.0 40.0 44.0

1.0
3.1
6.1
9.2
12.2
15.3
18.3

TIME
(min)

```
****************************************
*                                      *
*       PHEASANT POINT APARTMENTS      *
*  BAX ENGINEERING PROJECT NO. 95-7218E *
*          NOVEMBER, 18, 1999          *
*                                      *
*                                      *
****************************************
```

Inflow Hydrograph: 7218E-15.HYD
Rating Table file: 7218 .PND

----INITIAL CONDITIONS----
Elevation = 471.00 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 + 0 (cfs)
471.00	0.0	0.000	0.0	0.0
471.30	0.0	0.001	1.2	1.2
471.60	0.0	0.007	9.8	9.8
471.90	0.0	0.023	33.1	33.1
472.20	0.0	0.052	75.5	75.5
472.50	0.0	0.091	131.9	131.9
472.80	0.0	0.140	203.6	203.6
473.10	0.0	0.201	292.3	292.3
473.40	0.0	0.275	399.9	399.9
473.70	0.0	0.364	528.2	528.2
474.00	0.0	0.468	679.0	679.0
474.30	0.0	0.587	852.6	852.6
474.60	0.0	0.722	1048.9	1048.9
474.90	0.0	0.874	1269.3	1269.3
475.20	0.0	1.044	1515.3	1515.3
475.50	0.0	1.232	1788.2	1788.2
475.80	0.0	1.439	2089.4	2089.4
476.10	0.0	1.666	2419.4	2419.4
476.40	0.0	1.906	2767.1	2767.1
476.70	0.0	2.155	3128.9	3128.9
477.00	0.0	2.414	3505.3	3505.3
477.30	0.0	2.683	3896.4	3896.4
477.60	0.0	2.963	4302.7	4302.7
477.90	0.0	3.254	4724.3	4724.3
478.20	0.0	3.554	5160.5	5160.5
478.50	0.0	3.862	5608.2	5608.2
478.80	0.0	4.179	6067.2	6067.2
479.10	0.0	4.503	6537.7	6537.7
479.40	0.0	4.835	7019.9	7019.9
479.70	0.0	5.175	7513.8	7513.8
480.00	0.0	5.523	8019.7	8019.7

Page

Version: 5.20 S/N:
TRD: 11-19-1999 08:54:57

NOVEMBER 15, 1999

Rating Table File: 7218 .PND

Initial Conditions
Elevation = 471.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

INTERMEDIATE ROUTING COMPUTATIONS

Elevation (ft)	Outflow (cfs)	Storage (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
471.00	0.0	0.000	0.0	0.0
472.50	0.0	0.091	[illegible]	131.9
472.80	0.0	0.140	203.6	203.6
474.30	0.0	0.587	[illegible]	[illegible]
474.60	0.0	0.722	[illegible]	[illegible]
476.10	0.0	1.666	[illegible]	[illegible]
476.40	0.0	1.906	[illegible]	2757.1
477.90	0.0	3.254	4724.3	[illegible]
478.20	0.0	3.554	5160.5	[illegible]
479.70	0.0	5.175	7513.8	7513.8
480.00	0.0	5.523	[illegible]	[illegible]

EXECUTED 11-19-1999 08:54:37
DISK FILES: 7218E-15.HYD ; 7218 .PND

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
480.30	0.0	5.880
480.60	0.0	6.244
480.90	0.0	6.616
481.20	3.1	6.997
481.50	12.4	7.386
481.80	25.1	7.783

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
8537.2	8537.2
9066.4	9066.4
9607.1	9607.1
10159.7	10162.8
10724.1	10736.5
11300.6	11325.7

Time increment (t) = 1.0 min.

EXECUTED 11-19-1996 08:54:37 Page 2
DISK FILE: 7218G-15.HYD ; 7218 .PND

STORAGE INDICATION ROUTING

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)		2S/t (cfs)	2S/t + O (cfs)
[illegible]	0.0	[illegible]		8587.2	[illegible]
480.00	0.0	[illegible]		[illegible]	9000.4
480.90	0.0	6.516		9607.1	9607.1
481.20	3.1	6.897		[illegible]	10152.8
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	25.1	7.781		11300	11325.7

Time increment (t) = [illegible] min.

POND-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:54:37

Pond File: 7218 .PND
Inflow Hydrograph: 7218E-15.HYD
Outflow Hydrograph: OUT .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	471.00
1.0	16.97	17.0	17.0	17.0	0.00	471.69
2.0	33.94	50.9	67.9	67.9	0.00	472.15
3.0	50.91	84.8	152.7	152.7	0.00	472.59
4.0	50.91	101.8	254.6	254.6	0.00	472.97
5.0	50.91	101.8	356.4	356.4	0.00	473.28
6.0	50.91	101.8	458.2	458.2	0.00	473.54
7.0	50.91	101.8	560.0	560.0	0.00	473.76
8.0	50.91	101.8	661.8	661.8	0.00	473.97
9.0	50.91	101.8	763.6	763.6	0.00	474.15
10.0	50.91	101.8	865.5	865.5	0.00	474.32
11.0	50.91	101.8	967.3	967.3	0.00	474.48
12.0	50.91	101.8	1069.1	1069.1	0.00	474.63
13.0	50.91	101.8	1170.9	1170.9	0.00	474.77
14.0	50.91	101.8	1272.8	1272.8	0.00	474.90
15.0	50.91	101.8	1374.6	1374.6	0.00	475.03
16.0	50.91	101.8	1476.4	1476.4	0.00	475.15
17.0	50.91	101.8	1578.2	1578.2	0.00	475.27
18.0	50.91	101.8	1680.0	1680.0	0.00	475.38
19.0	50.91	101.8	1781.8	1781.8	0.00	475.49
20.0	50.91	101.8	1883.7	1883.7	0.00	475.60
21.0	33.94	84.8	1968.5	1968.5	0.00	475.68
22.0	16.97	50.9	2019.4	2019.4	0.00	475.73
23.0	0.00	17.0	2036.4	2036.4	0.00	475.75
24.0	0.00	0.0	2036.4	2036.4	0.00	475.75
25.0	0.00	0.0	2036.4	2036.4	0.00	475.75
26.0	0.00	0.0	2036.4	2036.4	0.00	475.75
27.0	0.00	0.0	2036.4	2036.4	0.00	475.75
28.0	0.00	0.0	2036.4	2036.4	0.00	475.75
29.0	0.00	0.0	2036.4	2036.4	0.00	475.75
30.0	0.00	0.0	2036.4	2036.4	0.00	475.75
31.0	0.00	0.0	2036.4	2036.4	0.00	475.75

Version 5.20 [illegible]
[illegible] 08:54:37

Inflow Hydrograph: [illegible]
Outflow Hydrograph: [illegible]

INFLOW HYDROGRAPH — ROUTING CALCULATIONS

TIME (min)	INFLOW (cfs)	(cfs)	2S/t (cfs)	(cfs)	OUTFLOW (cfs)	ELEVATION (ft)
1.0	16.97	17.0	17.0	0.[illegible]	0.00	471.6[illegible]
2.0	33.94	[illegible]	67.9	[illegible]	0.00	472.15
4.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7.0	50.91	101.8	560.0	560.0	0.00	473.76
8.0	50.91	101.8	661.8	661.8	0.00	473.9[illegible]
10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13.0	[illegible]	101.8	1170.9	1170.9	0.00	474.[illegible]
14.0	[illegible]	101.8	[illegible]	[illegible]	0.00	474.[illegible]
16.0	50.91	[illegible]	[illegible]	[illegible]	0.00	[illegible]
17.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19.0	50.91	101.8	1781.8	1781.8	0.00	475.[illegible]
20.0	50.91	101.8	1883.7	1883.7	0.00	475.[illegible]
22.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.0	0.00	0.0	2036.4	2036.4	0.00	475.75
26.0	0.00	0.0	2036.4	2036.4	0.00	475.75
28.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31.0	0.00	0.0	2036.4	2036.4	0.00	475.75

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

Pond File:             7218    .PND
Inflow Hydrograph:     7218E-15.HYD
Outflow Hydrograph: OUT        .HYD

Starting Pond W.S. Elevation =   471.00 ft

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

                   Peak Inflow    =    50.91 cfs
                   Peak Outflow   =     0.00 cfs
                   Peak Elevation =   475.75 ft

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

              Initial Storage          =     0.00 ac-ft
              Peak Storage From Storm  =     1.40 ac-ft
                                          ---------------
              Total Storage in Pond    =     1.40 ac-ft

       >>>>>> Warning, peak outflow = last ordinate point. <<<<<<
```

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

Pond File: [illegible]
Inflow Hydrograph: [illegible]
Outflow Hydrograph: [illegible]

Starting Pond W.S. Elevation = [illegible] ft

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

Peak Inflow = 5.11 cfs
Peak Outflow = [illegible] cfs
Peak Elevation = [illegible] ft

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

Initial Storage = 0.00 ac-ft
Peak Storage From Storm = [illegible] ac-ft

Total Storage in Pond = [illegible] ac-ft

Warning: Peak outflow [illegible] ordinate point [illegible]

>>>>>> Warning, peak outflow = last ordinate point. <<<<<<

Pond File: 7218 .PND
Inflow Hydrograph: 7218E-15.HYD
Outflow Hydrograph: OUT .HYD

EXECUTED: 11-19-1999
08:54:37

Peak Inflow = 50.91 cfs
Peak Outflow = 0.00 cfs
Peak Elevation = 475.75 ft

```
                                                                 Flow (cfs)
      0.0   6.0  12.0  18.0  24.0  30.0  36.0  42.0  48.0  54.0  60.0  66.0
      .------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-
      |
1.0  -|x                *
      |x                         *
2.0  -|x                                  *
      |x                                          *
3.1  -|x                                                  *
      |x                                                  *
4.1  -|x                                                  *
      |x                                                  *
5.1  -|x                                                  *
      |x                                                  *
6.1  -|x                                                  *
      |x                                                  *
7.1  -|x                                                  *
      |x                                                  *
8.2  -|x                                                  *
      |x                                                  *
9.2  -|x                                                  *
      |x                                                  *
10.2 -|x                                                  *
      |x                                                  *
11.2 -|x                                                  *
      |x                                                  *
12.2 -|x                                                  *
      |x                                                  *
13.3 -|x                                                  *
      |x                                                  *
14.3 -|x                                                  *
      |x                                                  *
15.3 -|x                                                  *
      |x                                                  *
16.3 -|x                                                  *
      |x                                                  *
17.3 -|x                                                  *
      |x                                                  *
18.4 -|x                                                  *
      |x                                                  *
19.4 -|x                                                  *
      |x                                                  *
      |
    TIME
    (min)
```

x File: OUT .HYD Qmax = 0.0 cfs
* File: 7218E-15.HYD Qmax = 50.9 cfs

>>>>>> Warning: peak outflow = last ordinate point. <<<<<<

POND-2 Version: 5.20 S/N:

Page

Pond File:

Inflow Hydrograph:

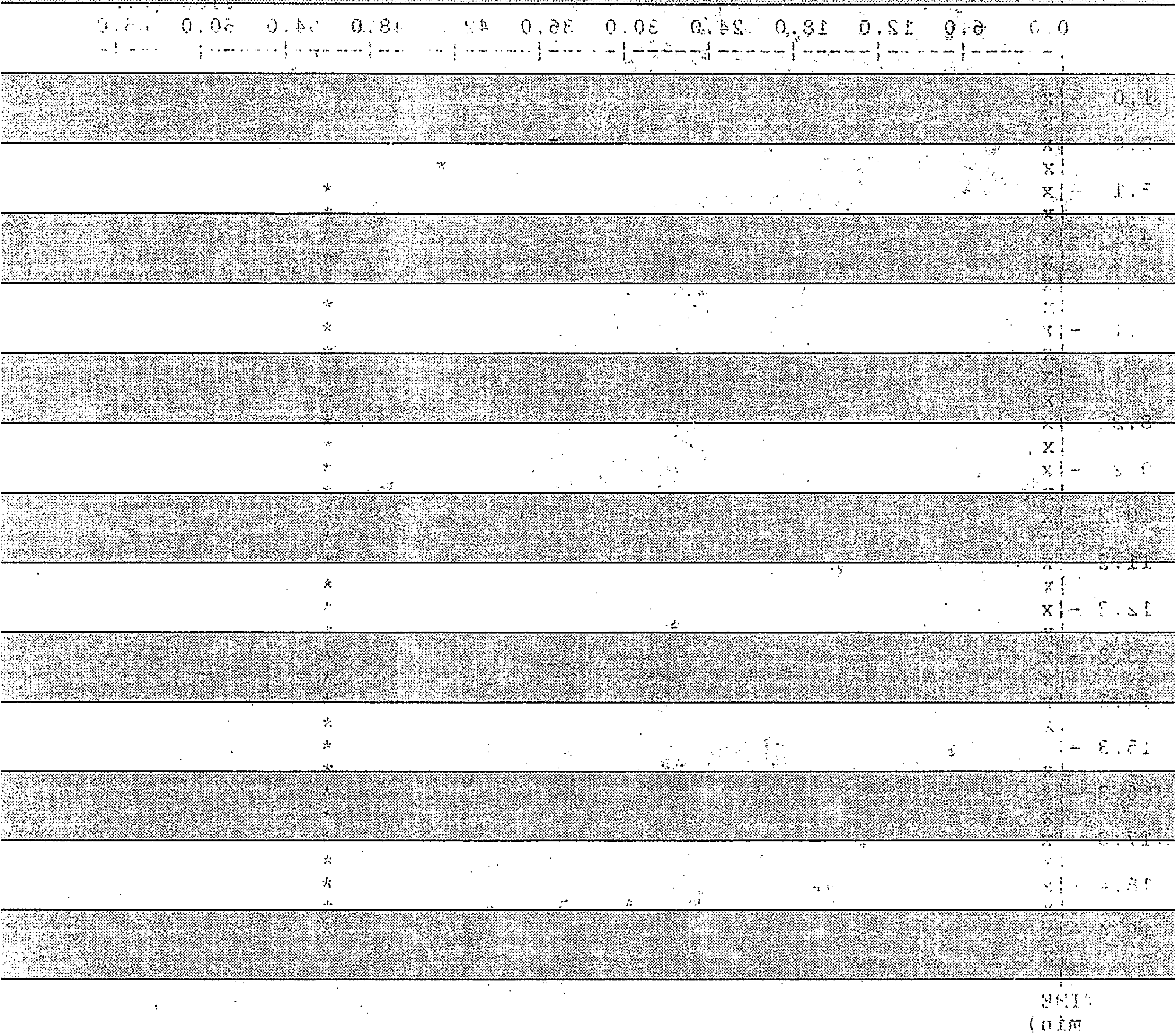
Outflow Hydrograph:

EXECUTED: 11-19-1999

Peak Inflow = 50.91 cfs

Peak Outflow = 0.00 cfs

Peak Elevation =



```
****************************************
*                                      *
*       PHEASANT POINT APARTMENTS      *
*  BAX ENGINEERING PROJECT NO. 95-7218E *
*          NOVEMBER, 18, 1999          *
*                                      *
*                                      *
****************************************
```

Inflow Hydrograph: 7218E-25.HYD
Rating Table file: 7218 .PND

----INITIAL CONDITIONS----
Elevation = 471.00 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 + 0 (cfs)
471.00	0.0	0.000	0.0	0.0
471.30	0.0	0.001	1.2	1.2
471.60	0.0	0.007	9.8	9.8
471.90	0.0	0.023	33.1	33.1
472.20	0.0	0.052	75.5	75.5
472.50	0.0	0.091	131.9	131.9
472.80	0.0	0.140	203.6	203.6
473.10	0.0	0.201	292.3	292.3
473.40	0.0	0.275	399.9	399.9
473.70	0.0	0.364	528.2	528.2
474.00	0.0	0.468	679.0	679.0
474.30	0.0	0.587	852.6	852.6
474.60	0.0	0.722	1048.9	1048.9
474.90	0.0	0.874	1269.3	1269.3
475.20	0.0	1.044	1515.3	1515.3
475.50	0.0	1.232	1788.2	1788.2
475.80	0.0	1.439	2089.4	2089.4
476.10	0.0	1.666	2419.4	2419.4
476.40	0.0	1.906	2767.1	2767.1
476.70	0.0	2.155	3128.9	3128.9
477.00	0.0	2.414	3505.3	3505.3
477.30	0.0	2.683	3896.4	3896.4
477.60	0.0	2.963	4302.7	4302.7
477.90	0.0	3.254	4724.3	4724.3
478.20	0.0	3.554	5160.5	5160.5
478.50	0.0	3.862	5608.2	5608.2
478.80	0.0	4.179	6067.2	6067.2
479.10	0.0	4.503	6537.7	6537.7
479.40	0.0	4.835	7019.9	7019.9
479.70	0.0	5.175	7513.8	7513.8
480.00	0.0	5.523	8019.7	8019.7

[illegible]
NOVEMBER 18, 199[illegible]

Inflow Hydrograph: 7218-20[illegible]
Rating Table file: 7218 .PND

[illegible]

INTERMEDIATE ROUTING COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)		2S/t (cfs)	2S/t + O (cfs)
471.00	0.0	0.000		0.0	0.0
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
472.50	0.0	0.091		131.[illegible]	131.[illegible]
472.80	0.0	0.14[illegible]		205.6	205.6
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
474.30	0.0	0.[illegible]		852.6	852.6
474.60	0.0	0.[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
476.10	0.0	1.656		2419.4	2419.4
476.40	0.0	1.905		2767.1	2767.1
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
477.90	0.0	3.254		4724.5	4724.5
478.20	0.0	3.554		5160.5	5160.5
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
479.70	0.0	5.175		7513.8	7513.8
480.00	0.0	5.5[illegible]		8019.7	8019.[illegible]

DISK FILES: 7218E-25.HYD ; 7218 .PND

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
480.30	0.0	5.880
480.60	0.0	6.244
480.90	0.0	6.616
481.20	3.1	6.997
481.50	12.4	7.386
481.80	25.1	7.783

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
8537.2	8537.2
9066.4	9066.4
9607.1	9607.1
10159.7	10162.8
10724.1	10736.5
11300.6	11325.7

Time increment (t) = 1.0 min.

EXECUTED 11-19-[illegible] DISK FILE: 7218R-2 HYD ; 7216 .PND

GIVEN POND DATA

ELEVATION	OUTFLOW	STORAGE
480.00	0.0	[illegible]
480.90	0.0	[illegible]
481.20	3.1	[illegible]

Time increment (t) = 1.0 min

EXECUTED: 11-19-1999 08:54:52

Pond File: 7218 .PND
Inflow Hydrograph: 7218E-25.HYD
Outflow Hydrograph: OUT .HYD

INFLOW HYDROGRAPH / ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	471.00
1.0	20.94	20.9	20.9	20.9	0.00	471.74
2.0	41.89	62.8	83.8	83.8	0.00	472.24
3.0	62.83	104.7	188.5	188.5	0.00	472.74
4.0	62.83	125.7	314.1	314.1	0.00	473.16
5.0	62.83	125.7	439.8	439.8	0.00	473.49
6.0	62.83	125.7	565.5	565.5	0.00	473.77
7.0	62.83	125.7	691.1	691.1	0.00	474.02
8.0	62.83	125.7	816.8	816.8	0.00	474.24
9.0	62.83	125.7	942.4	942.4	0.00	474.44
10.0	62.83	125.7	1068.1	1068.1	0.00	474.63
11.0	62.83	125.7	1193.8	1193.8	0.00	474.80
12.0	62.83	125.7	1319.4	1319.4	0.00	474.96
13.0	62.83	125.7	1445.1	1445.1	0.00	475.11
14.0	62.83	125.7	1570.7	1570.7	0.00	475.26
15.0	62.83	125.7	1696.4	1696.4	0.00	475.40
16.0	62.83	125.7	1822.1	1822.1	0.00	475.53
17.0	62.83	125.7	1947.7	1947.7	0.00	475.66
18.0	62.83	125.7	2073.4	2073.4	0.00	475.78
19.0	62.83	125.7	2199.0	2199.0	0.00	475.90
20.0	62.83	125.7	2324.7	2324.7	0.00	476.01
21.0	41.89	104.7	2429.4	2429.4	0.00	476.11
22.0	20.94	62.8	2492.3	2492.3	0.00	476.16
23.0	0.00	20.9	2513.2	2513.2	0.00	476.18
24.0	0.00	0.0	2513.2	2513.2	0.00	476.18
25.0	0.00	0.0	2513.2	2513.2	0.00	476.18
26.0	0.00	0.0	2513.2	2513.2	0.00	476.18
27.0	0.00	0.0	2513.2	2513.2	0.00	476.18
28.0	0.00	0.0	2513.2	2513.2	0.00	476.18
29.0	0.00	0.0	2513.2	2513.2	0.00	476.18
30.0	0.00	0.0	2513.2	2513.2	0.00	476.18
31.0	0.00	0.0	2513.2	2513.2	0.00	476.18

Pond [illegible] Version 5.0 [illegible]
EXHIBIT [illegible] 7-19-1999 08:54:52

Inflow Hydrograph: [illegible]
Outflow Hydrograph: [illegible]

HYDROGRAPH ROUTING COMP [illegible]

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
1.0	20.94	20.9	20.9	[illegible]	0.00	471.7[illegible]
2.0	41.89	62.8	63.8	[illegible]	0.00	472.[illegible]
7.0	62.83	125.7	501.1	[illegible]	0.00	474.0[illegible]
8.0	62.83	125.7	816.8	[illegible]	0.00	474.24
13.0	62.[illegible]	125.7	1445.1	[illegible]	0.00	475.14
14.0	62.83	125.7	1570.7	[illegible]	0.00	475.26
[illegible]	62.83	125.7	2199.6	2199.6	0.00	475.[illegible]
[illegible]	62.83	125.7	2324.7	[illegible]	0.00	[illegible]
[illegible]	0.00	0.0	2513.2	[illegible]	0.00	476.18
26.0	0.00	0.0	2513.2	[illegible]	0.00	476.18
31.0	[illegible]	0.0	2513.2	2513.2	0.00	476.18

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

Pond File:            7218    .PND
Inflow Hydrograph:    7218E-25.HYD
Outflow Hydrograph:   OUT     .HYD

Starting Pond W.S. Elevation =   471.00 ft

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

                      Peak Inflow    =    62.83 cfs
                      Peak Outflow   =     0.00 cfs
                      Peak Elevation =   476.18 ft

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

               Initial Storage          =      0.00 ac-ft
               Peak Storage From Storm  =      1.73 ac-ft
                                           ---------------
               Total Storage in Pond    =      1.73 ac-ft


        >>>>>> Warning, peak outflow = last ordinate point. <<<<<<
```

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

Pond File [illegible]
Inflow Hydrograph: [illegible]
[illegible]

Starting Pond W.S. Elevation = [illegible] ft

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

Peak Inflow = 62.[illegible] cfs
Peak Outflow = [illegible] cfs
Peak Elevation = [illegible] ft

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

Initial Storage = [illegible] ac-ft
Peak Storage From Storm = [illegible] ac-ft
Total Storage in Pond = [illegible] ac-ft

Warning: peak outflow = [illegible]

```
       >>>>>> Warning, peak outflow = last ordinate point. <<<<<<
    POND-2 Version: 5.20 S/N:                                Page 5

    Pond File:            7218    .PND
    Inflow Hydrograph:    7218E-25.HYD
    Outflow Hydrograph:   OUT     .HYD
                                                        EXECUTED: 11-19-1999
    Peak Inflow    =      62.83 cfs                              08:54:52
    Peak Outflow   =       0.00 cfs
    Peak Elevation =     476.18 ft

                                                                  Flow (cfs)
      0.0   6.0  12.0  18.0  24.0  30.0  36.0  42.0  48.0  54.0  60.0  66.0
      .------¦-----¦-----¦-----¦-----¦-----¦-----¦-----¦-----¦-----¦-----¦-
      ¦
1.0  -¦x                     *
      ¦x                                *
2.0  -¦x                                           *
      ¦x                                                     *
3.1  -¦x                                                               *
      ¦x                                                               *
4.1  -¦x                                                               *
      ¦x                                                               *
5.1  -¦x                                                               *
      ¦x                                                               *
6.1  -¦x                                                               *
      ¦x                                                               *
7.1  -¦x                                                               *
      ¦x                                                               *
8.2  -¦x                                                               *
      ¦x                                                               *
9.2  -¦x                                                               *
      ¦x                                                               *
10.2 -¦x                                                               *
      ¦x                                                               *
11.2 -¦x                                                               *
      ¦x                                                               *
12.2 -¦x                                                               *
      ¦x                                                               *
13.3 -¦x                                                               *
      ¦x                                                               *
14.3 -¦x                                                               *
      ¦x                                                               *
15.3 -¦x                                                               *
      ¦x                                                               *
16.3 -¦x                                                               *
      ¦x                                                               *
17.3 -¦x                                                               *
      ¦x                                                               *
18.4 -¦x                                                               *
      ¦x                                                               *
19.4 -¦x                                                               *
      ¦x                                                               *
      ¦
    TIME
    (min)

 x  File:  OUT     .HYD   Qmax =      0.0 cfs
 *  File:  7218E-25.HYD   Qmax =     62.8 cfs
```

<<<<< Warning: peak outflow = last approximate point. >>>>>

Pond-2 Version: 5.20 S/N: [illegible]

Pond File: [illegible] .PND
Inflow Hydrograph: [illegible] .HYD
Outflow Hydrograph: [illegible] .HYD

EXECUTED: 11-09-199[illegible]
08:54:[illegible]

Peak Inflow = 62.83 cfs
Peak Outflow = [illegible]
Peak Elevation = [illegible] ft

Flow (cfs)

6.0 12.0 18.0 24.0 30.0 36.0 42.0 48.0 54.0 60.0 66.0

TIME (min)	
1.0	x
2.0	x
3.1	x
4.1	x
[illegible]	x
[illegible]	x
9.2	x
[illegible]	x
12.7	x
[illegible]	x
[illegible]	x
[illegible]	x
18.4	x

POND-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:55:06

```
****************************************
*                                      *
*       PHEASANT POINT APARTMENTS      *
*  BAX ENGINEERING PROJECT NO. 95-7218E *
*          NOVEMBER, 18, 1999          *
*                                      *
*                                      *
****************************************
```

Inflow Hydrograph: 7218E100.HYD
Rating Table file: 7218 .PND

----INITIAL CONDITIONS----
Elevation = 471.00 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 + 0 (cfs)
471.00	0.0	0.000	0.0	0.0
471.30	0.0	0.001	1.2	1.2
471.60	0.0	0.007	9.8	9.8
471.90	0.0	0.023	33.1	33.1
472.20	0.0	0.052	75.5	75.5
472.50	0.0	0.091	131.9	131.9
472.80	0.0	0.140	203.6	203.6
473.10	0.0	0.201	292.3	292.3
473.40	0.0	0.275	399.9	399.9
473.70	0.0	0.364	528.2	528.2
474.00	0.0	0.468	679.0	679.0
474.30	0.0	0.587	852.6	852.6
474.60	0.0	0.722	1048.9	1048.9
474.90	0.0	0.874	1269.3	1269.3
475.20	0.0	1.044	1515.3	1515.3
475.50	0.0	1.232	1788.2	1788.2
475.80	0.0	1.439	2089.4	2089.4
476.10	0.0	1.666	2419.4	2419.4
476.40	0.0	1.906	2767.1	2767.1
476.70	0.0	2.155	3128.9	3128.9
477.00	0.0	2.414	3505.3	3505.3
477.30	0.0	2.683	3896.4	3896.4
477.60	0.0	2.963	4302.7	4302.7
477.90	0.0	3.254	4724.3	4724.3
478.20	0.0	3.554	5160.5	5160.5
478.50	0.0	3.862	5608.2	5608.2
478.80	0.0	4.179	6067.2	6067.2
479.10	0.0	4.503	6537.7	6537.7
479.40	0.0	4.835	7019.9	7019.9
479.70	0.0	5.175	7513.8	7513.8
480.00	0.0	5.523	8019.7	8019.7

NOVEMBER 18, 1999

Rating Table file: 7218 .PND

INTERMEDIATE ROUTING

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)	2S/t (cfs)	2S/t + O (cfs)
[illegible]	0.0	0.000	0.0	0.0
472.50	0.0	0.091	131.9	1[illegible].9
472.80	0.0	0.140	203.[illegible]	[illegible].6
474.30	0.0	0.5[illegible]	[illegible]	65[illegible].6
474.60	0.0	0.72[illegible]	[illegible]	1048.9
476.[illegible]	0.0	1.666	24[illegible].6	2419.4
47[illegible].10	0.0	1.906	276[illegible].1	[illegible].1
477.90	0.0	3.254	47[illegible].8	[illegible].8
478.20	0.0	3.554	51[illegible].6	515[illegible].5
479.70	0.0	5.175	7513.6	7513.8
480.00	0.0	5.523	8019.7	[illegible]

EXECUTED 11-19-1999 08:55:06
DISK FILES: 7218E100.HYD ; 7218 .PND

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)
480.30	0.0	5.880
480.60	0.0	6.244
480.90	0.0	6.616
481.20	3.1	6.997
481.50	12.4	7.386
481.80	25.1	7.783

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
8537.2	8537.2
9066.4	9066.4
9607.1	9607.1
10159.7	10162.8
10724.1	10736.5
11300.6	11325.7

Time increment (t) = 1.0 min.

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (ac-ft)		2S/t (cfs)	2S/t + O (cfs)
[illegible]	0.0	[illegible]		[illegible]	[illegible]
480.90	0.0	6.510		9607.1	9607.1
481.20	3.1	6.997		10159.7	10162.8
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]

Time increment (t) = [illegible] min

POND-2 Version: 5.20 S/N:
EXECUTED: 11-19-1999 08:55:06

Pond File: 7218 .PND
Inflow Hydrograph: 7218E100.HYD
Outflow Hydrograph: OUT .HYD

INFLOW HYDROGRAPH | ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	471.00
1.0	26.80	26.8	26.8	26.8	0.00	471.82
2.0	53.59	80.4	107.2	107.2	0.00	472.37
3.0	80.39	134.0	241.2	241.2	0.00	472.93
4.0	80.39	160.8	401.9	401.9	0.00	473.40
5.0	80.39	160.8	562.7	562.7	0.00	473.77
6.0	80.39	160.8	723.5	723.5	0.00	474.08
7.0	80.39	160.8	884.3	884.3	0.00	474.35
8.0	80.39	160.8	1045.1	1045.1	0.00	474.59
9.0	80.39	160.8	1205.8	1205.8	0.00	474.81
10.0	80.39	160.8	1366.6	1366.6	0.00	475.02
11.0	80.39	160.8	1527.4	1527.4	0.00	475.21
12.0	80.39	160.8	1688.2	1688.2	0.00	475.39
13.0	80.39	160.8	1849.0	1849.0	0.00	475.56
14.0	80.39	160.8	2009.7	2009.7	0.00	475.72
15.0	80.39	160.8	2170.5	2170.5	0.00	475.87
16.0	80.39	160.8	2331.3	2331.3	0.00	476.02
17.0	80.39	160.8	2492.1	2492.1	0.00	476.16
18.0	80.39	160.8	2652.9	2652.9	0.00	476.30
19.0	80.39	160.8	2813.6	2813.6	0.00	476.44
20.0	80.39	160.8	2974.4	2974.4	0.00	476.57
21.0	53.59	134.0	3108.4	3108.4	0.00	476.68
22.0	26.80	80.4	3188.8	3188.8	0.00	476.75
23.0	0.00	26.8	3215.6	3215.6	0.00	476.77
24.0	0.00	0.0	3215.6	3215.6	0.00	476.77
25.0	0.00	0.0	3215.6	3215.6	0.00	476.77
26.0	0.00	0.0	3215.6	3215.6	0.00	476.77
27.0	0.00	0.0	3215.6	3215.6	0.00	476.77
28.0	0.00	0.0	3215.6	3215.6	0.00	476.77
29.0	0.00	0.0	3215.6	3215.6	0.00	476.77
30.0	0.00	0.0	3215.6	3215.6	0.00	476.77
31.0	0.00	0.0	3215.6	3215.6	0.00	476.77

[illegible]
Inflow Hydrograph: [illegible]
Outflow Rating Table: [illegible]

TIME (min)	INFLOW (cfs)	ROUTING COMPUTATIONS			OUTFLOW (cfs)	ELEVATION (ft)
		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.0	26.80	26.8	26.8	26.8	0.00	471.82
2.0	53.59	80.4	107.2	107.2	0.00	472.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7.0	80.39	160.8	884.3	884.3	0.00	474.35
8.0	80.39	160.8	1045.1	1045.1	0.00	474.5[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13.0	80.39	160.8	1849.0	1849.0	0.00	475.56
14.0	80.39	160.8	2009.7	2009.7	0.00	475.73
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19.0	80.39	160.8	2813.6	2813.6	0.00	476.44
20.0	80.39	160.8	2974.4	2974.4	0.00	476.57
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.0	0.00	0.0	3215.6	3215.6	0.00	476.[illegible]
26.0	0.00	0.0	3215.6	3215.6	0.00	476.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31.0	0.00	0.0	3215.6	3215.6	0.00	476.[illegible]

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

Pond File:           7218    .PND
Inflow Hydrograph:   7218E100.HYD
Outflow Hydrograph:  OUT     .HYD


Starting Pond W.S. Elevation =   471.00 ft

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

                      Peak Inflow    =    80.39 cfs
                      Peak Outflow   =     0.00 cfs
                      Peak Elevation =   476.77 ft

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

               Initial Storage          =      0.00 ac-ft
               Peak Storage From Storm  =      2.21 ac-ft
                                           ---------------
               Total Storage in Pond    =      2.21 ac-ft


        >>>>>> Warning, peak outflow = last ordinate point. <<<<<<
```

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

** Summary of Peak Outflow and Peak Elevation **

Peak Inflow = 80.7 cfs

** Summary of Approximate Peak Storage **

```
       >>>>>> Warning, peak outflow = last ordinate point. <<<<<<
      POND-2 Version: 5.20 S/N:                                    Page 5

      Pond File:            7218    .PND
      Inflow Hydrograph:    7218E100.HYD
      Outflow Hydrograph:   OUT     .HYD
                                                     EXECUTED: 11-19-1999
      Peak Inflow    =     80.39 cfs                               08:55:06
      Peak Outflow   =      0.00 cfs
      Peak Elevation =    476.77 ft

                                                                 Flow (cfs)
      0.0    8.0  16.0  24.0  32.0  40.0  48.0  56.0  64.0  72.0  80.0  88.0
      .------¦-----¦-----¦-----¦-----¦-----¦-----¦-----¦-----¦-----¦-----¦-
      ¦
1.0  -¦x                   *
      ¦x                              *
2.0  -¦x                                        *
      ¦x                                                  *
3.1  -¦x                                                           *
      ¦x                                                           *
4.1  -¦x                                                           *
      ¦x                                                           *
5.1  -¦x                                                           *
      ¦x                                                           *
6.1  -¦x                                                           *
      ¦x                                                           *
7.1  -¦x                                                           *
      ¦x                                                           *
8.2  -¦x                                                           *
      ¦x                                                           *
9.2  -¦x                                                           *
      ¦x                                                           *
10.2 -¦x                                                           *
      ¦x                                                           *
11.2 -¦x                                                           *
      ¦x                                                           *
12.2 -¦x                                                           *
      ¦x                                                           *
13.3 -¦x                                                           *
      ¦x                                                           *
14.3 -¦x                                                           *
      ¦x                                                           *
15.3 -¦x                                                           *
      ¦x                                                           *
16.3 -¦x                                                           *
      ¦x                                                           *
17.3 -¦x                                                           *
      ¦x                                                           *
18.4 -¦x                                                           *
      ¦x                                                           *
19.4 -¦x                                                           *
      ¦x                                                           *
      ¦
    TIME
    (min)

   x  File:  OUT     .HYD   Qmax =     0.0 cfs
   *  File:  7218E100.HYD   Qmax =    80.4 cfs
```