DRAINAGE PLAN

THE FARIMONT 3rd ADDITION

TO

WICHITA, SEDGWICK COUNTY, KANSAS

Prepared By

Baughman
ENGINEERING | SURVEYING | PLANNING
LANDSCAPE ARCHITECTURE

September 10, 2004

INTRODUCTION

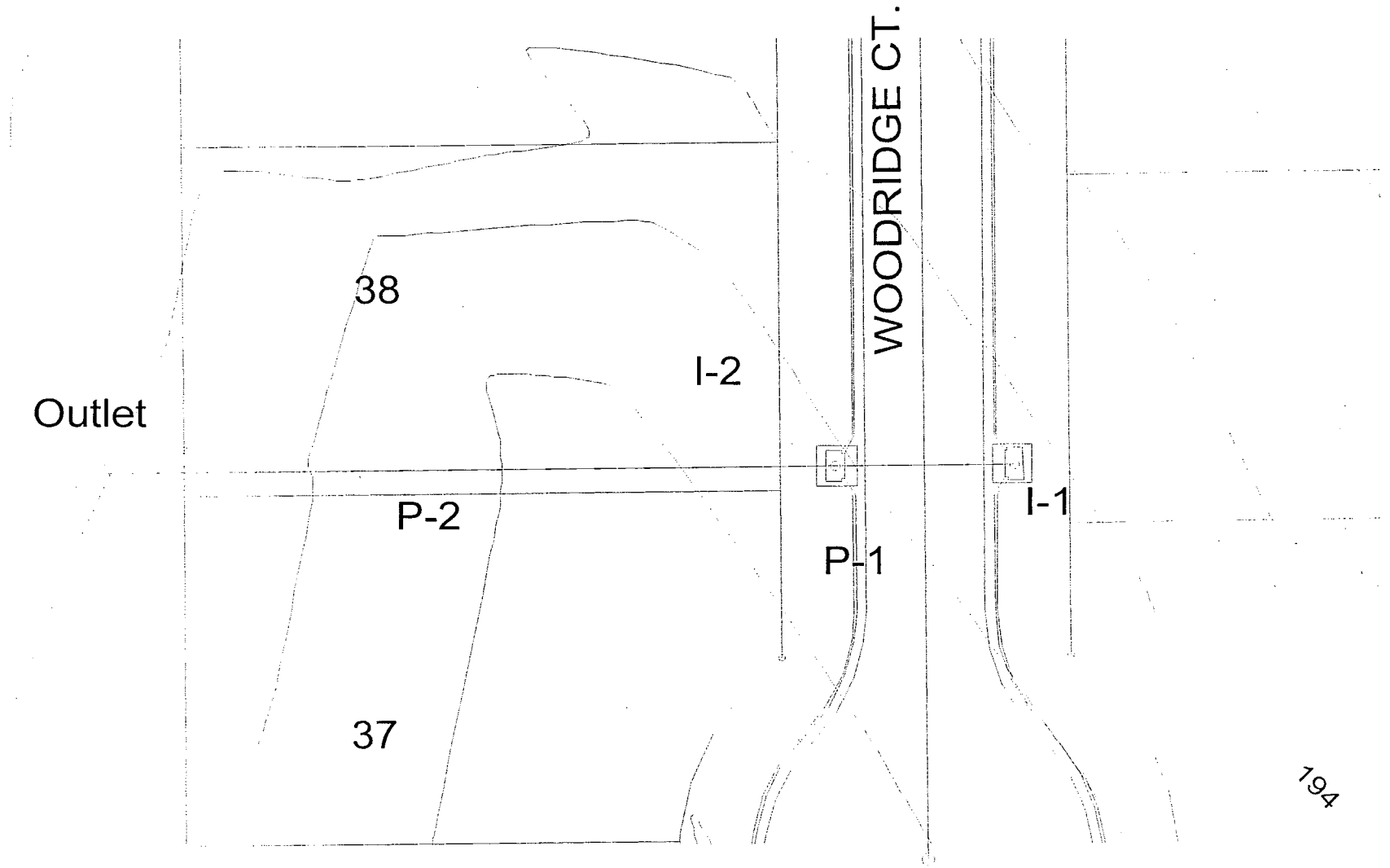
This report provides information and supporting documentation to support the "Drainage Plan" for the property located in the Southeast Quarter of Section 3, T-27-S, R-2-E in Sedgwick County, Kansas.

The "Drainage Plan" being submitted herein in intended to serve as a guide for the design of detention facilities, streets, and storm water sewer improvements to the proposed developments. Modifications to structures, pipes, etc. may be made as necessary during the final design in order to obtain the most economical design and construction possible.

Hydrologic Summary

Return Period years	Existing Peak Discharge at 127th St. East cfs	Developed Peak Discharge at 127th St. East without detention cfs	Peak Discharge From South with detention cfs
2	27	32	17
5	40	46	25
100	86	92	69

StormCad Sewer Calculations



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System Report

Pipe	Additional Flow (cfs)	Total Upstream Added (cfs)	Structure Discharge (cfs)	-Node- Upstream Downstream	-Section- Shape Size	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Length (ft)
P-1	1.80	0.00	1.80	I-1	Circular	192.20	192.00	196.00	195.30	0.000777	1.80	35.00
				I-2	15 inch			196.00	195.27	0.005714	4.88	
P-2	2.30	1.80	4.10	I-2	Circular	191.80	191.30	196.00	195.23	0.001524	4.10	149.00
				Outlet	18 inch			193.70	195.00	0.003356	6.08	

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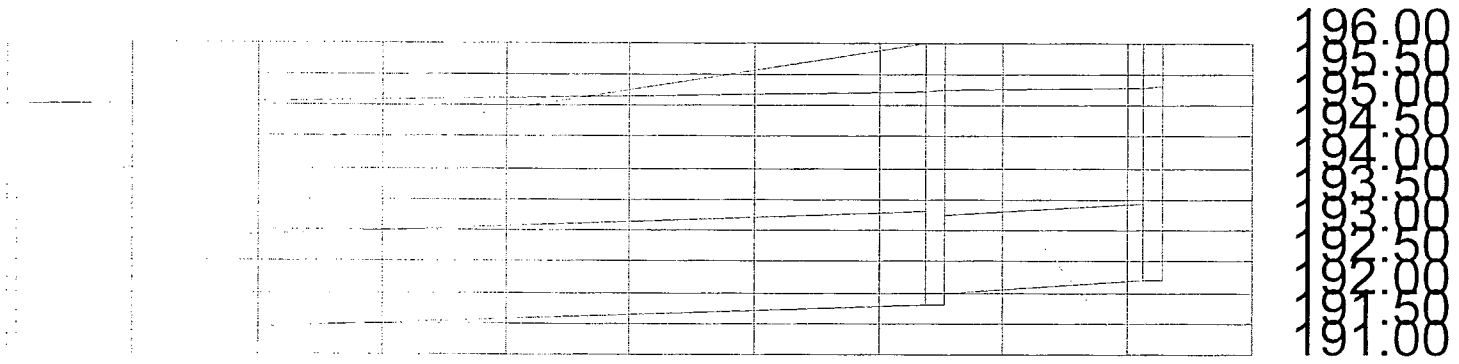
Outlet: Outlet
Rim: 193.70 ft
Sump: 191.30 ft

Inlet: I-2
Rim: 196.00 ft
Sump: 191.80 ft

Inlet: I-1
Rim: 196.00 ft
Sump: 192.20 ft



Pipe: P-2
Up Invert: 191.80 ft
Dn Invert: 191.30 ft
Length: 149.00 ft
Size: 18 inch

Pipe: P-1
Up Invert: 192.20 ft
Dn Invert: 192.00 ft
Length: 35.00 ft
Size: 15 inch

System Report

Pipe	Additional Flow (cfs)	Total Upstream Added (cfs)	Structure Discharge (cfs)	-Node- Upstream Downstream	-Section- Shape Size	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Length (ft)
P-1	2.20	0.00	2.20	I-1	Circular	192.20	192.00	196.00	195.42	0.001160	2.20	35.00
				I-2	15 inch			196.00	195.38	0.005714	4.88	
P-2	2.70	2.20	4.90	I-2	Circular	191.80	191.30	196.00	195.32	0.002176	4.90	149.00
				Outlet	18 inch			193.70	195.00	0.003356	6.08	

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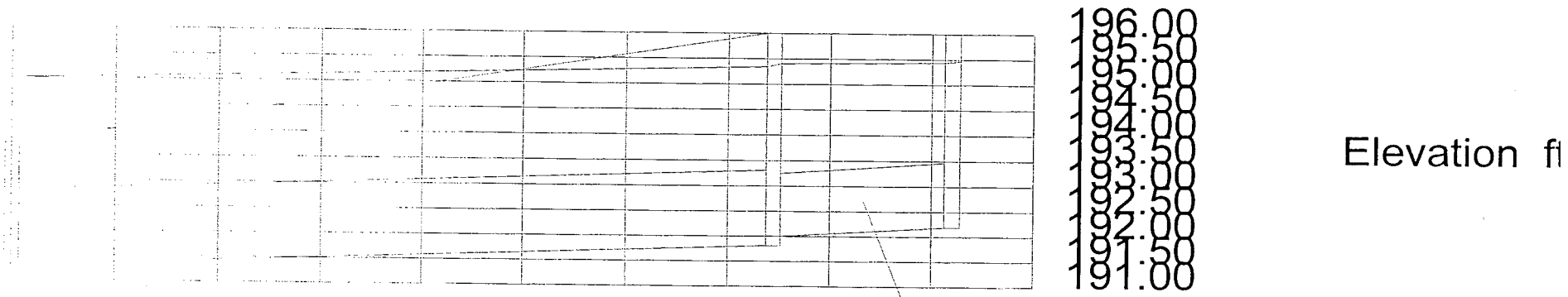
Outlet: Outlet
Rim: 193.70 ft
Sump: 191.30 ft

Inlet: I-2
Rim: 196.00 ft
Sump: 191.80 ft

Inlet: I-1
Rim: 196.00 ft
Sump: 192.20 ft



Pipe: P-2
Up Invert: 191.80 ft
Dn Invert: 191.30 ft
Length: 149.00 ft
Size: 18 inch

Pipe: P-1
Up Invert: 192.20 ft
Dn Invert: 192.00 ft
Length: 35.00 ft
Size: 15 inch

System Report

Pipe	Additional Flow (cfs)	Total Upstream Added (cfs)	Structure Discharge (cfs)	-Node- Upstream Downstream	-Section- Shape Size	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Length (ft)
P-1	3.60	0.00	3.60	I-1	Circular	192.20	192.00	196.00	196.11	0.003106	3.60	35.00
				I-2	15 inch			196.00	196.00	0.005714	4.88	
P-2	4.40	3.60	8.00	I-2	Circular	191.80	191.30	196.00	195.86	0.005801	8.00	149.00
				Outlet	18 inch			193.70	195.00	0.003356	6.08	

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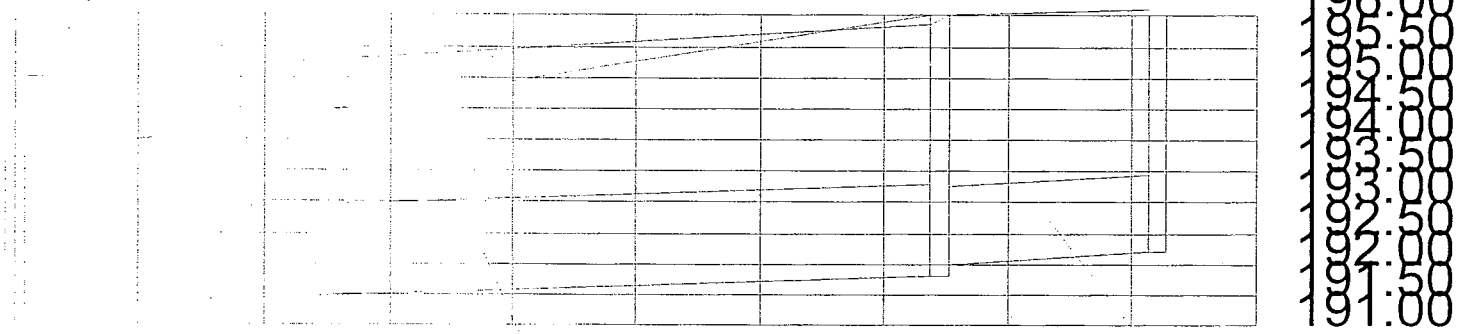
Outlet: Outlet
Rim: 193.70 ft
Sump: 191.30 ft

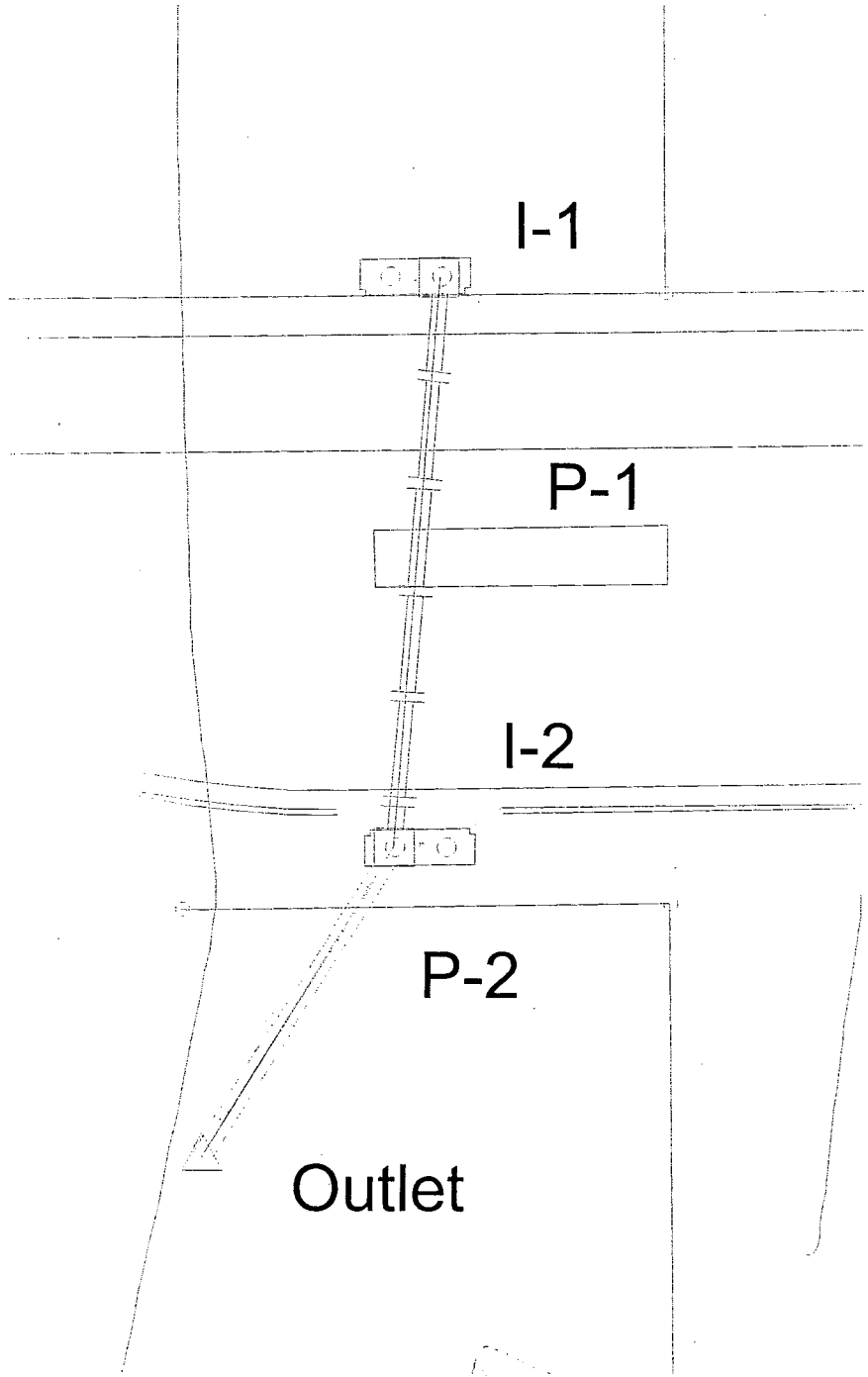
Inlet: I-2
Rim: 196.00 ft
Sump: 191.80 ft

Inlet: I-1
Rim: 196.00 ft
Sump: 192.20 ft



Pipe: P-2
Up Invert: 191.80 ft
Dn Invert: 191.30 ft
Length: 149.00 ft
Size: 18 inch

Pipe: P-1
Up Invert: 192.20 ft
Dn Invert: 192.00 ft
Length: 35.00 ft
Size: 15 inch



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System Report

Pipe	Additional Flow (cfs)	Total Upstream Added (cfs)	Structure Discharge (cfs)	-Node- Upstream Downstream	-Section- Shape Size	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Length (ft)
P-1	2.10	0.00	4.00	I-1	Circular	187.25	187.00	191.00	189.81	0.003835	4.00	59.00
				I-2	15 inch			191.00	189.59	0.004237	4.20	
P-2	2.50	4.00	8.80	I-2	Circular	186.90	182.50	191.00	189.19	0.018560	8.80	37.00
				Outlet	15 inch			186.00	188.50	0.118919	22.28	

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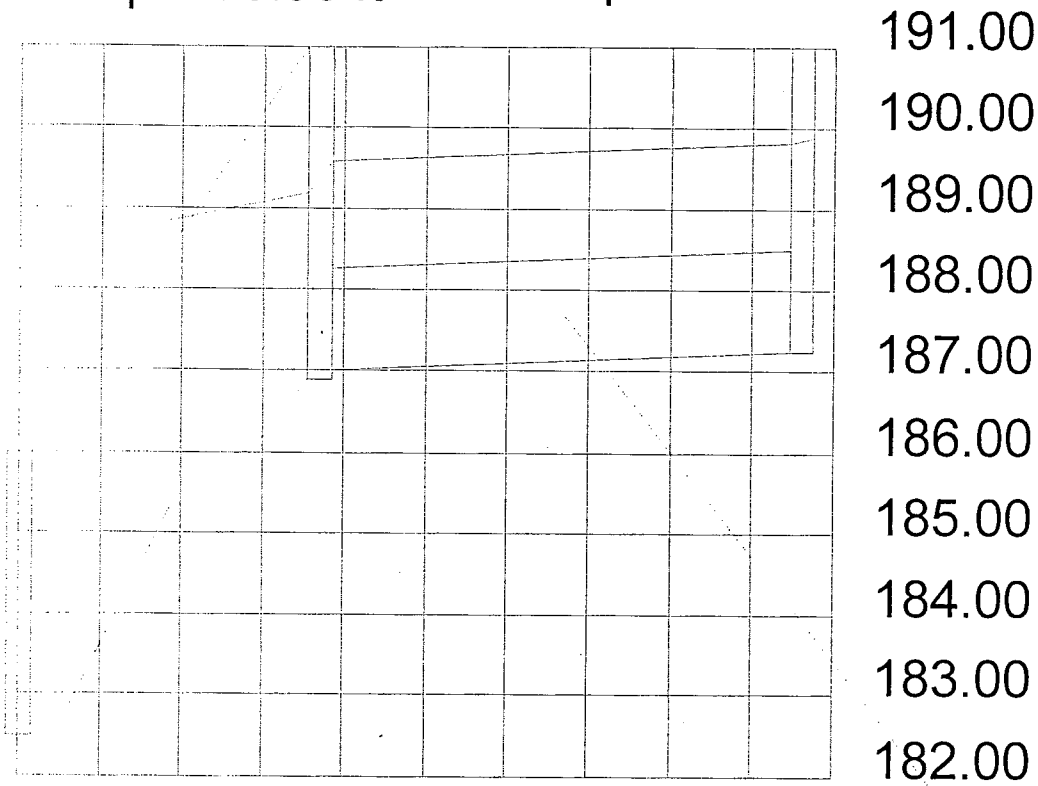
Inlet: I-2
Rim: 191.00 ft
Sump: 186.90 ft

Inlet: I-1
Rim: 191.00 ft
Sump: 187.25 ft



Outlet: Outlet
Rim: 186.00 ft
Sump: 182.50 ft

Pipe: P-2
Up Invert: 186.90 ft
Dn Invert: 182.50 ft
Length: 37.00 ft
Size: 15 inch

Pipe: P-1
Up Invert: 187.25 ft
Dn Invert: 187.00 ft
Length: 59.00 ft
Size: 15 inch

System Report

Pipe	Additional Flow (cfs)	Total Upstream Added (cfs)	Structure Discharge (cfs)	-Node- Upstream Downstream	-Section- Shape Size	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Length (ft)
P-1	2.50	0.00	2.50	I-1	Circular	187.25	187.00	191.00	189.01	0.001498	2.50	59.00
				I-2	15 inch			191.00	188.92	0.004237	4.20	
P-2	3.00	2.50	5.50	I-2	Circular	186.90	182.50	191.00	188.77	0.007250	5.50	37.00
				Outlet	15 inch			186.00	188.50	0.118919	22.28	

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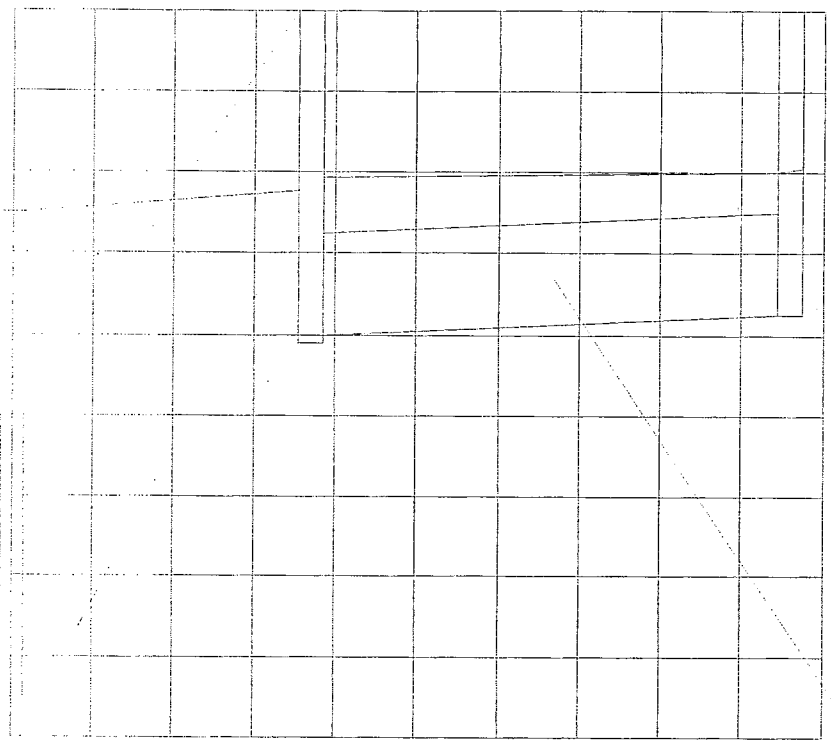
Inlet: I-2
Rim: 191.00 ft
Sump: 186.90 ft

Inlet: I-1
Rim: 191.00 ft
Sump: 187.25 ft



Outlet: Outlet
Rim: 186.00 ft
Sump: 182.50 ft

Pipe: P-2
Up Invert: 186.90 ft
Dn Invert: 182.50 ft
Length: 37.00 ft
Size: 15 inch

Pipe: P-1
Up Invert: 187.25 ft
Dn Invert: 187.00 ft
Length: 59.00 ft
Size: 15 inch

System Report

Pipe	Additional Flow (cfs)	Total Upstream Added (cfs)	Structure Discharge (cfs)	-Node- Upstream Downstream	-Section- Shape Size	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Length (ft)
P-1	4.00	0.00	4.00	I-1	Circular	187.25	187.00	191.00	189.81	0.003835	4.00	59.00
				I-2	15 inch			191.00	189.59	0.004237	4.20	
P-2	4.80	4.00	8.80	I-2	Circular	186.90	182.50	191.00	189.19	0.018560	8.80	37.00
				Outlet	15 inch			186.00	188.50	0.118919	22.28	

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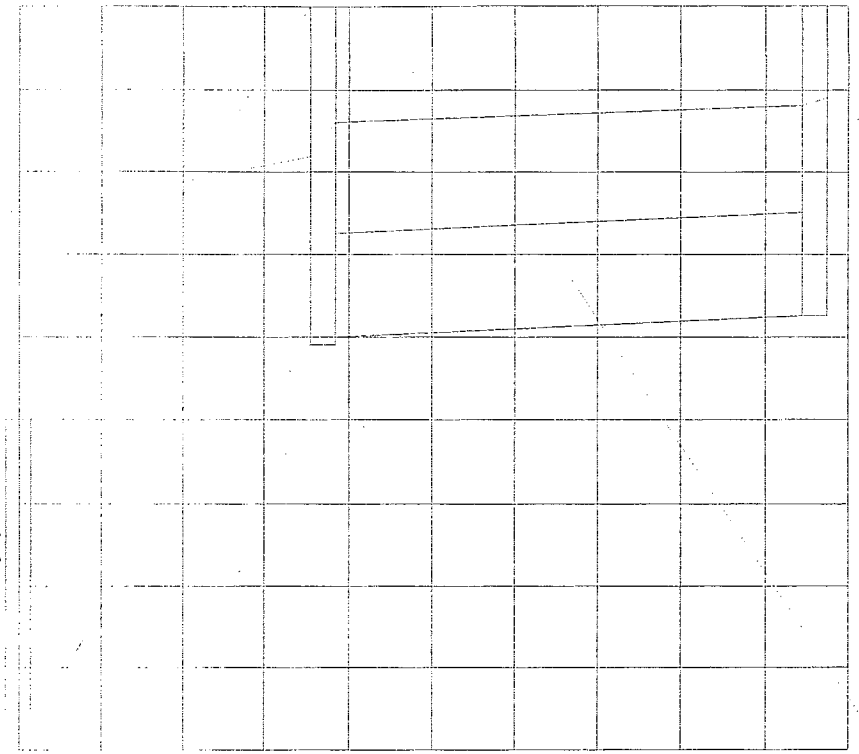
Inlet: I-2
Rim: 191.00 ft
Sump: 186.90 ft

Inlet: I-1
Rim: 191.00 ft
Sump: 187.25 ft



Outlet: Outlet
Rim: 186.00 ft
Sump: 182.50 ft

Pipe: P-2
Up Invert: 186.90 ft
Dn Invert: 182.50 ft
Length: 37.00 ft
Size: 15 inch

Pipe: P-1
Up Invert: 187.25 ft
Dn Invert: 187.00 ft
Length: 59.00 ft
Size: 15 inch

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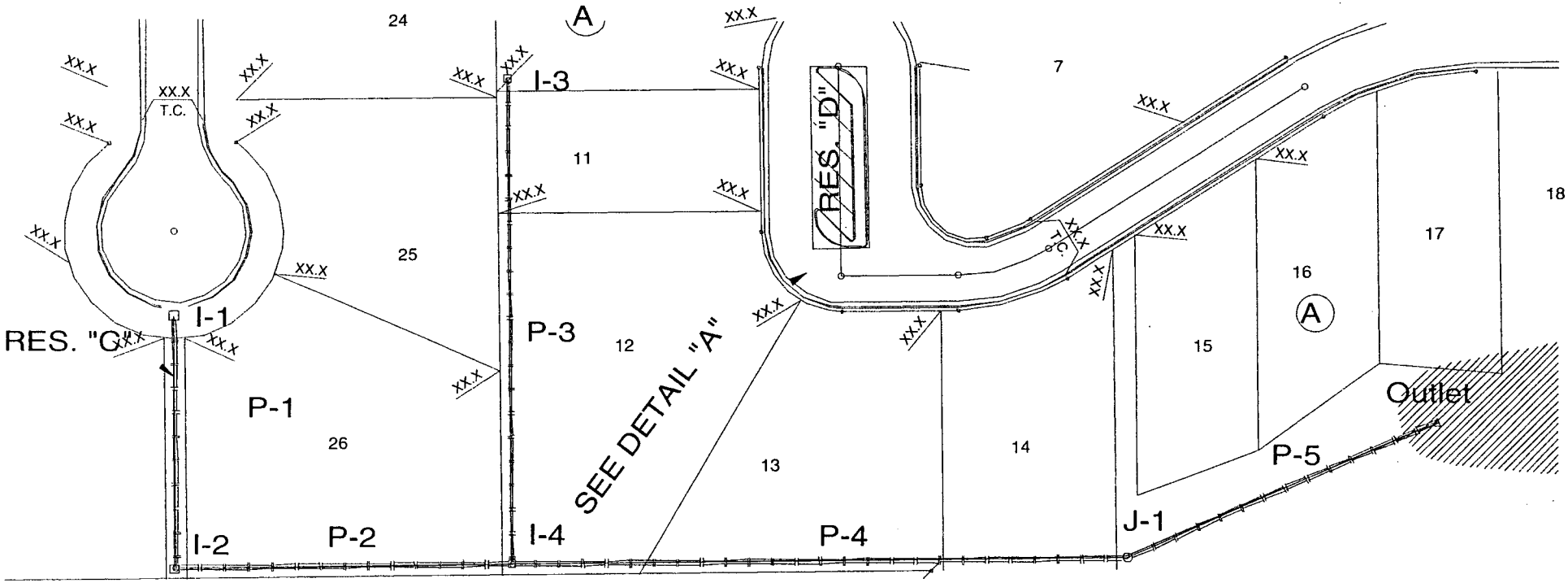

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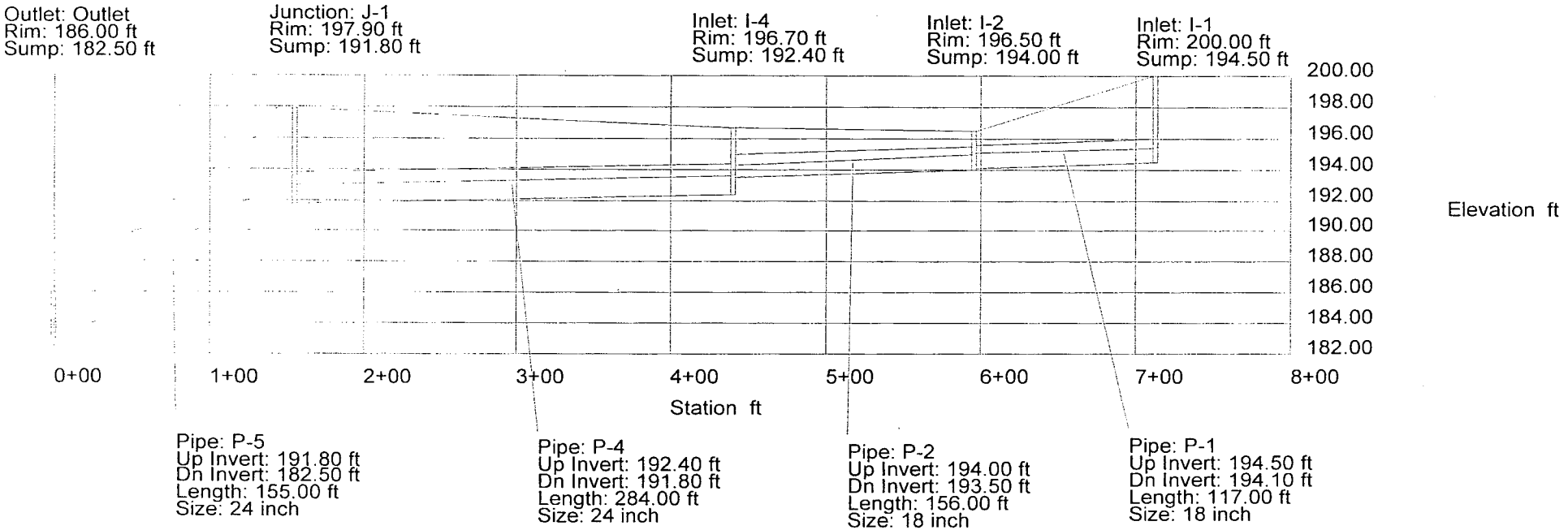
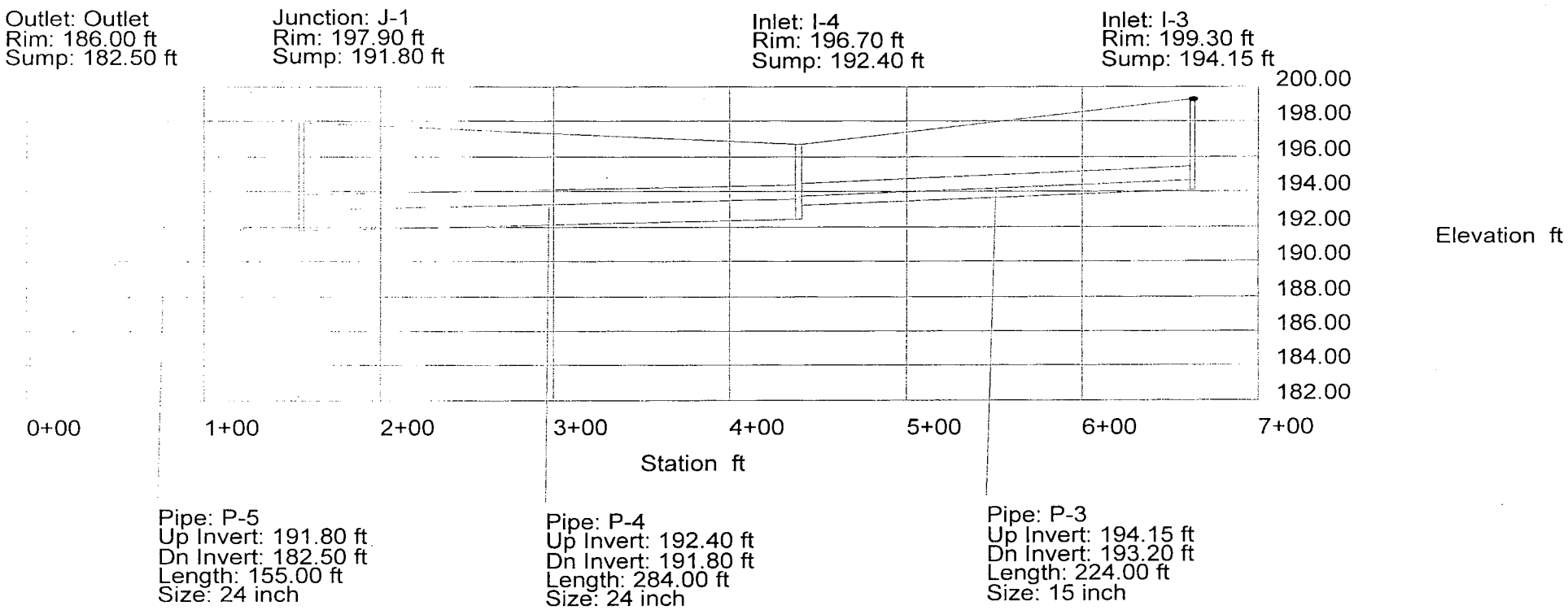
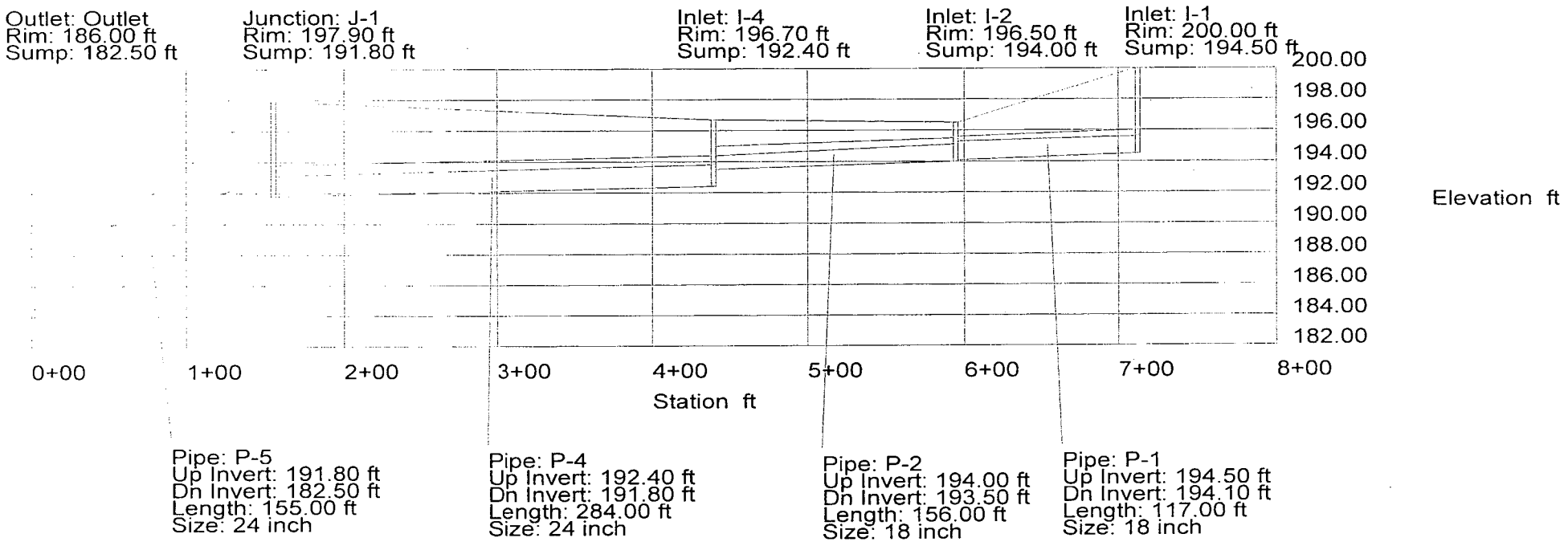
P-3	1.20	0.00	1.20	I-3	Circular	194.15	193.20	199.30	194.61	0.004163	1.20	224.00
				I-4	15 inch			196.70	193.71	0.004241	4.21	
P-1	4.10	0.00	4.10	I-1	Circular	194.50	194.10	200.00	195.40	0.003064	4.10	117.00
				I-2	18 inch			196.50	195.08	0.003419	6.14	
P-2	0.40	4.10	4.50	I-2	Circular	194.00	193.50	196.50	194.98	0.003500	4.50	156.00
				I-4	18 inch			196.70	194.31	0.003205	5.95	
P-4	1.40	5.70	7.10	I-4	Circular	192.40	191.80	196.70	193.61	0.002268	7.10	284.00
				J-1	24 inch			197.90	192.93	0.002113	10.40	
P-5	N/A	7.10	7.10	J-1	Circular	191.80	182.50	197.90	192.75	0.029243	7.10	155.00
				Outlet	24 inch			186.00	188.50	0.060000	55.41	


Outlet: Outlet
Rim: 186.00 ft
Sump: 182.50 ft
Junction: J-1
Rim: 197.90 ft
Sump: 191.80 ft
Inlet: I-4
Rim: 196.70 ft
Sump: 192.40 ft
Inlet: I-2
Rim: 196.50 ft
Sump: 194.00 ft
Inlet: I-1
Rim: 200.00 ft
Sump: 194.50 ft
200.00
198.00
196.00
194.00
192.00
190.00
188.00
186.00
184.00
182.00
Elevation ft
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
Station ft
Pipe: P-5
Up Invert: 191.80 ft
Dn Invert: 182.50 ft
Length: 155.00 ft
Size: 24 inch
Pipe: P-4
Up Invert: 192.40 ft
Dn Invert: 191.80 ft
Length: 284.00 ft
Size: 24 inch
Pipe: P-2
Up Invert: 194.00 ft
Dn Invert: 193.50 ft
Length: 156.00 ft
Size: 18 inch
Pipe: P-1
Up Invert: 194.50 ft
Dn Invert: 194.10 ft
Length: 117.00 ft
Size: 18 inch



System Report

Pipe	Additional Flow (cfs)	Total Upstream Added (cfs)	Structure Discharge (cfs)	-Node- Upstream Downstream	-Section- Shape Size	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Length (ft)
P-3	1.50	0.00	1.50	I-3	Circular	194.15	193.20	199.30	194.67	0.003816	1.50	224.00
				I-4	15 inch			196.70	193.89	0.004241	4.21	
P-1	5.00	0.00	5.00	I-1	Circular	194.50	194.10	200.00	195.55	0.002953	5.00	117.00
				I-2	18 inch			196.50	195.24	0.003419	6.14	
P-2	0.50	5.00	5.50	I-2	Circular	194.00	193.50	196.50	195.13	0.003683	5.50	156.00
				I-4	18 inch			196.70	194.40	0.003205	5.95	
P-4	1.70	7.00	8.70	I-4	Circular	192.40	191.80	196.70	193.78	0.002360	8.70	284.00
				J-1	24 inch			197.90	193.06	0.002113	10.40	
P-5	N/A	8.70	8.70	J-1	Circular	191.80	182.50	197.90	192.85	0.030014	8.70	155.00
				Outlet	24 inch			186.00	188.50	0.060000	55.41	



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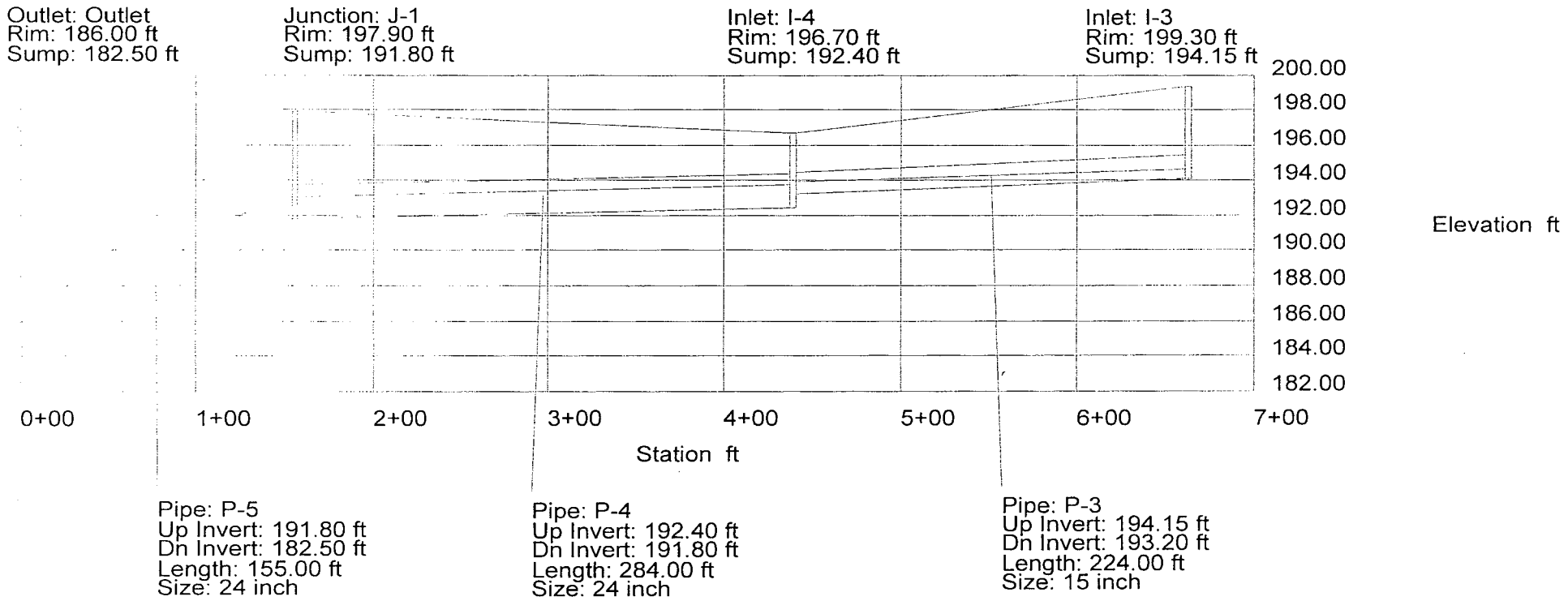

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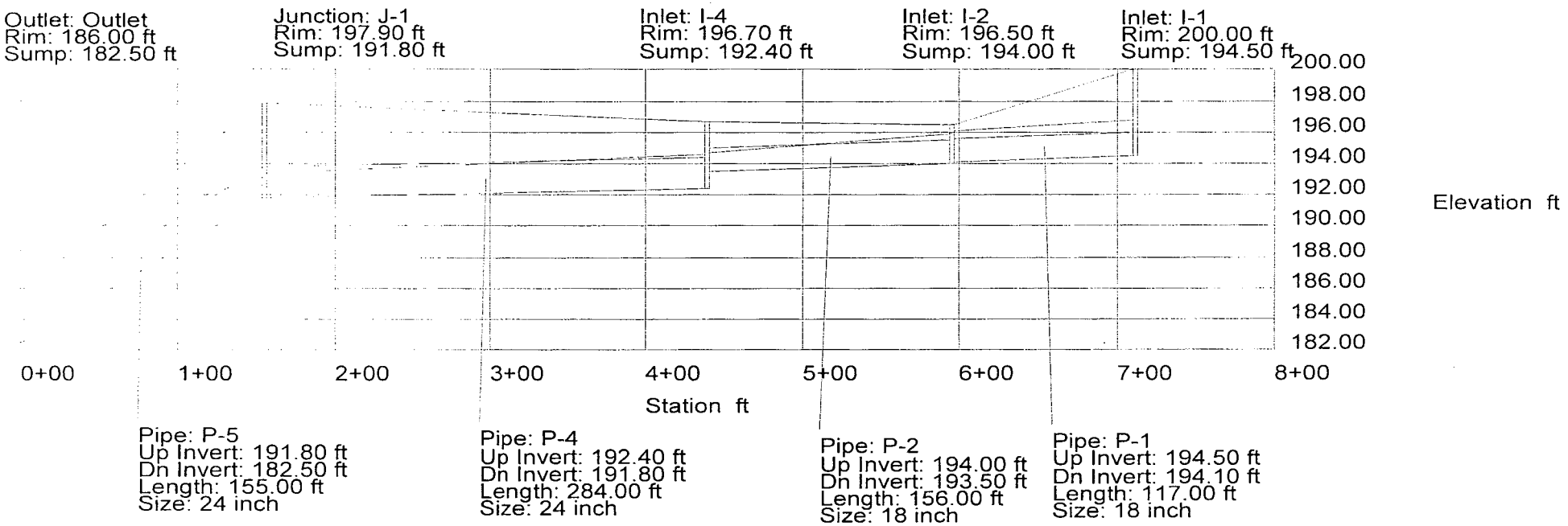
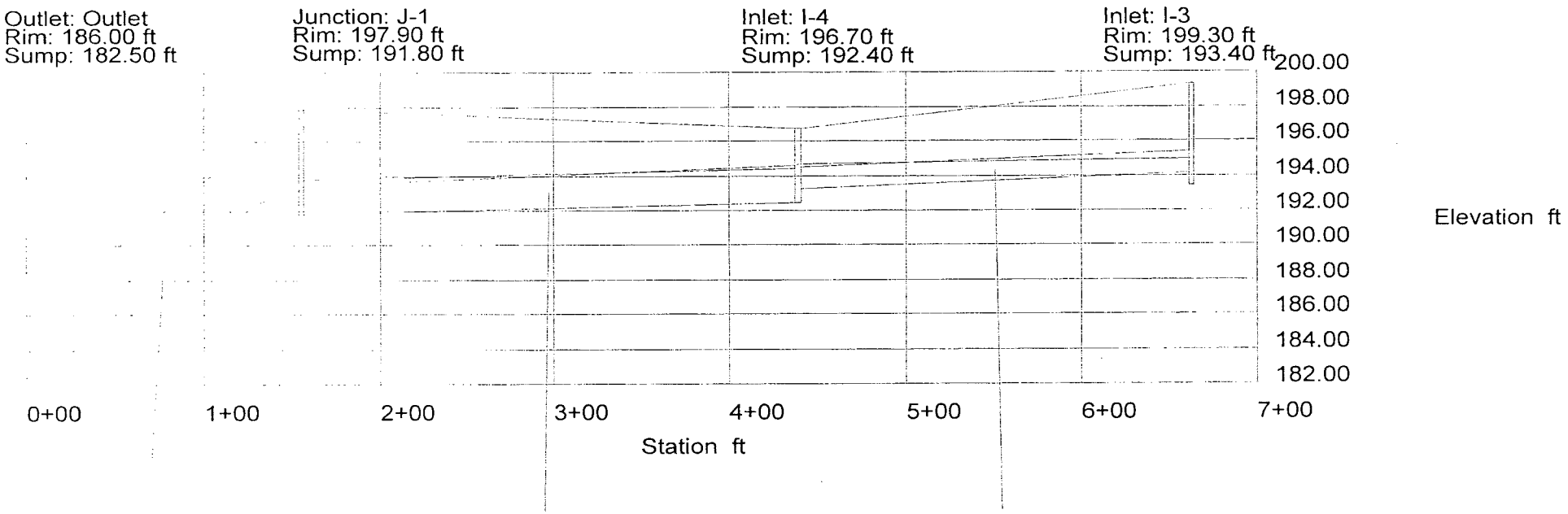
System Report

Pipe	Additional Flow (cfs)	Total Upstream Added (cfs)	Structure Discharge (cfs)	-Node- Upstream Downstream	-Section- Shape Size	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	-Section- Discharge Capacity (cfs)	Length (ft)
P-3	2.40	0.00	2.40	I-3	Circular	194.15	193.20	199.30	194.98	0.001468	2.40	224.00
				I-4	15 inch			196.70	194.71	0.004241	4.21	
P-1	8.00	0.00	8.00	I-1	Circular	194.50	194.10	200.00	196.77	0.005801	8.00	117.00
				I-2	18 inch			196.50	196.10	0.003419	6.14	
P-2	0.80	8.00	8.80	I-2	Circular	194.00	193.50	196.50	195.90	0.006814	8.80	156.00
				I-4	18 inch			196.70	194.71	0.003205	5.95	
P-4	2.80	11.20	14.00	I-4	Circular	192.40	191.80	196.70	194.55	0.003581	14.00	284.00
				J-1	24 inch			197.90	193.45	0.002113	10.40	
P-5	N/A	14.00	14.00	J-1	Circular	191.80	182.50	197.90	193.15	0.031869	14.00	155.00
				Outlet	24 inch			186.00	188.50	0.060000	55.41	


Outlet: Outlet
Rim: 186.00 ft
Sump: 182.50 ft
Junction: J-1
Rim: 197.90 ft
Sump: 191.80 ft
Inlet: I-4
Rim: 196.70 ft
Sump: 192.40 ft
Inlet: I-2
Rim: 196.50 ft
Sump: 194.00 ft
Inlet: I-1
Rim: 200.00 ft
Sump: 194.50 ft
200.00
198.00
196.00
194.00
192.00
190.00
188.00
186.00
184.00
182.00
Elevation ft
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
Station ft
Pipe: P-5
Up Invert: 191.80 ft
Dn Invert: 182.50 ft
Length: 155.00 ft
Size: 24 inch
Pipe: P-4
Up Invert: 192.40 ft
Dn Invert: 191.80 ft
Length: 284.00 ft
Size: 24 inch
Pipe: P-2
Up Invert: 194.00 ft
Dn Invert: 193.50 ft
Length: 156.00 ft
Size: 18 inch
Pipe: P-1
Up Invert: 194.50 ft
Dn Invert: 194.10 ft
Length: 117.00 ft
Size: 18 inch



Pipe: P-5
Up Invert: 191.80 ft
Dn Invert: 182.50 ft
Length: 155.00 ft
Size: 24 inch

Pipe: P-4
Up Invert: 192.40 ft
Dn Invert: 191.80 ft
Length: 284.00 ft
Size: 24 inch

Pipe: P-3
Up Invert: 194.15 ft
Dn Invert: 193.20 ft
Length: 224.00 ft
Size: 15 inch

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PondPack Storage Routing Calculations

Table of Contents

MASTER DESIGN STORM SUMMARY

Default Network Design Storm File, ID WICHITA.RNQ WICHITA

Return Event	Total Depth in	Rainfall Type	RNF File	RNF ID
Pre..2	3.6000	Synthetic Curve	SCSTYPES	TypeII 24hr
Pre..5	4.5600	Synthetic Curve	SCSTYPES	TypeII 24hr
Pre100	7.6800	Synthetic Curve	SCSTYPES	TypeII 24hr

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
*127TH	JCT	2	2.100		12.1000	26.80		
*127TH	JCT	5	3.126		12.1000	40.18		
*127TH	JCT	100	6.799		12.1000	86.41		
EXIST BASIN	AREA	2	2.100		12.1000	26.80		
EXIST BASIN	AREA	5	3.126		12.1000	40.18		
EXIST BASIN	AREA	100	6.799		12.1000	86.41		

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.6000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - EXIST BASIN Pre..2
Tc = .3300 hrs
Drainage Area = 16.000 acres Runoff CN= 78

==========
Computational Time Increment = .04400 hrs
Computed Peak Time = 12.1000 hrs
Computed Peak Flow = 26.80 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 26.80 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 78
Area = 16.000 acres
S = 2.8205 in
0.2S = .5641 in

Cumulative Runoff

1.5738 in
2.098 ac-ft

HYG Volume... 2.100 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .33000 hrs (ID: None Selected)
Computational Incr, Tm = .04400 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 54.94 cfs
Unit peak time Tp = .22000 hrs
Unit receding limb, Tr = .88000 hrs
Total unit time, Tb = 1.10000 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 5 year storm
Duration = 24.0000 hrs Rain Depth = 4.5600 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - EXIST BASIN Pre..5
Tc = .3300 hrs
Drainage Area = 16.000 acres Runoff CN= 78

==========
Computational Time Increment = .04400 hrs
Computed Peak Time = 12.1000 hrs
Computed Peak Flow = 40.18 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 40.18 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 78
Area = 16.000 acres
S = 2.8205 in
0.2S = .5641 in

Cumulative Runoff

2.3425 in
3.123 ac-ft

HYG Volume... 3.126 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .33000 hrs (ID: None Selected)
Computational Incr, Tm = .04400 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 54.94 cfs
Unit peak time Tp = .22000 hrs
Unit receding limb, Tr = .88000 hrs
Total unit time, Tb = 1.10000 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.6800 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - EXIST BASIN Pre100
Tc = .3300 hrs
Drainage Area = 16.000 acres Runoff CN= 78

==========

Computational Time Increment	=	.04400 hrs
Computed Peak Time	=	12.1000 hrs
Computed Peak Flow	=	86.41 cfs
Time Increment for HYG File	=	.0500 hrs
Peak Time, Interpolated Output	=	12.1000 hrs
Peak Flow, Interpolated Output	=	86.41 cfs

==========

DRAINAGE AREA

ID:None Selected
CN = 78
Area = 16.000 acres
S = 2.8205 in
0.2S = .5641 in

Cumulative Runoff

5.0960 in
6.795 ac-ft

HYG Volume... 6.799 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .33000 hrs (ID: None Selected)
Computational Incr, Tm = .04400 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak,	qp =	54.94 cfs
Unit peak time	Tp =	.22000 hrs
Unit receding limb,	Tr =	.88000 hrs
Total unit time,	Tb =	1.10000 hrs

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK1	EXIST BASIN	FAIRMONT.HYG	EXIST BASIN	Pre..2

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	EXIST BASIN	Pre..2	2.100	12.1000	26.80

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	Pre..2	2.100	12.1000	26.80

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = Pre..2

Peak Discharge =	26.80 cfs
Time to Peak =	12.1000 hrs
HYG Volume =	2.100 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
9.4000	.00	.00	.00	.01	.01
9.6500	.02	.02	.03	.04	.05
9.9000	.06	.07	.08	.09	.10
10.1500	.11	.12	.14	.15	.17
10.4000	.19	.20	.22	.24	.26
10.6500	.29	.31	.34	.37	.40
10.9000	.43	.47	.51	.55	.59
11.1500	.64	.69	.76	.83	.91
11.4000	.99	1.09	1.20	1.35	1.60
11.6500	2.06	2.82	4.04	5.87	8.60
11.9000	12.44	17.25	22.09	25.60	26.80
12.1500	25.01	21.54	17.71	14.28	11.62
12.4000	9.70	8.27	7.15	6.27	5.54
12.6500	4.94	4.46	4.07	3.77	3.53
12.9000	3.33	3.16	3.01	2.88	2.78
13.1500	2.68	2.59	2.51	2.44	2.37
13.4000	2.31	2.25	2.19	2.14	2.08
13.6500	2.03	1.98	1.94	1.89	1.85
13.9000	1.81	1.77	1.73	1.69	1.65
14.1500	1.61	1.58	1.56	1.53	1.51
14.4000	1.49	1.48	1.46	1.45	1.43
14.6500	1.42	1.41	1.39	1.38	1.37
14.9000	1.35	1.34	1.33	1.31	1.30
15.1500	1.28	1.27	1.26	1.24	1.23
15.4000	1.22	1.20	1.19	1.18	1.16
15.6500	1.15	1.13	1.12	1.11	1.09
15.9000	1.08	1.06	1.05	1.03	1.02
16.1500	1.01	1.00	.99	.98	.97
16.4000	.97	.96	.95	.95	.94
16.6500	.94	.93	.93	.92	.92
16.9000	.91	.91	.90	.90	.89
17.1500	.89	.88	.88	.87	.87
17.4000	.86	.86	.85	.85	.84

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
17.6500	.84	.83	.83	.82	.82
17.9000	.81	.81	.80	.80	.79
18.1500	.79	.78	.78	.77	.77
18.4000	.76	.76	.75	.75	.74
18.6500	.74	.73	.73	.72	.72
18.9000	.71	.71	.70	.70	.69
19.1500	.69	.68	.68	.67	.67
19.4000	.66	.65	.65	.64	.64
19.6500	.63	.63	.62	.62	.61
19.9000	.61	.60	.60	.59	.59
20.1500	.58	.58	.57	.57	.57
20.4000	.57	.57	.57	.56	.56
20.6500	.56	.56	.56	.56	.56
20.9000	.56	.56	.56	.55	.55
21.1500	.55	.55	.55	.55	.55
21.4000	.55	.55	.55	.54	.54
21.6500	.54	.54	.54	.54	.54
21.9000	.54	.54	.54	.53	.53
22.1500	.53	.53	.53	.53	.53
22.4000	.53	.53	.53	.52	.52
22.6500	.52	.52	.52	.52	.52
22.9000	.52	.52	.52	.52	.51
23.1500	.51	.51	.51	.51	.51
23.4000	.51	.51	.51	.51	.50
23.6500	.50	.50	.50	.50	.50
23.9000	.50	.50	.49	.48	.45
24.1500	.39	.31	.23	.16	.11
24.4000	.07	.05	.04	.02	.02
24.6500	.01	.01	.01	.00	.00
24.9000	.00	.00			

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK1	EXIST BASIN	FAIRMONT.HYG	EXIST BASIN	Pre..5

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	EXIST BASIN	Pre..5	3.126	12.1000	40.18

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	Pre..5	3.126	12.1000	40.18

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = Pre..5

Peak Discharge =	40.18 cfs
Time to Peak =	12.1000 hrs
HYG Volume =	3.126 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
8.2500	.00	.00	.00	.01	.01
8.5000	.02	.02	.03	.04	.05
8.7500	.05	.06	.07	.08	.09
9.0000	.10	.12	.13	.14	.15
9.2500	.16	.17	.19	.20	.21
9.5000	.22	.23	.24	.25	.26
9.7500	.28	.29	.31	.33	.35
10.0000	.37	.39	.41	.43	.45
10.2500	.48	.51	.54	.57	.60
10.5000	.64	.67	.71	.75	.79
10.7500	.84	.89	.94	1.00	1.06
11.0000	1.13	1.19	1.27	1.35	1.44
11.2500	1.55	1.67	1.81	1.95	2.11
11.5000	2.28	2.53	2.96	3.74	5.00
11.7500	7.00	9.93	14.16	19.96	27.04
12.0000	33.99	38.82	40.18	37.19	31.84
12.2500	26.04	20.91	16.95	14.09	11.95
12.5000	10.30	9.00	7.93	7.06	6.35
12.7500	5.79	5.34	4.99	4.70	4.46
13.0000	4.25	4.07	3.91	3.77	3.64
13.2500	3.53	3.43	3.33	3.24	3.16
13.5000	3.08	3.00	2.92	2.85	2.78
13.7500	2.71	2.65	2.58	2.53	2.47
14.0000	2.41	2.36	2.30	2.25	2.21
14.2500	2.17	2.14	2.11	2.08	2.06
14.5000	2.04	2.02	2.00	1.98	1.96
14.7500	1.94	1.92	1.90	1.88	1.86
15.0000	1.84	1.82	1.80	1.79	1.77
15.2500	1.75	1.73	1.71	1.69	1.67
15.5000	1.65	1.63	1.61	1.59	1.57
15.7500	1.55	1.53	1.51	1.49	1.47
16.0000	1.45	1.43	1.41	1.40	1.38
16.2500	1.37	1.36	1.35	1.34	1.33

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
16.5000	1.32	1.31	1.30	1.30	1.29
16.7500	1.28	1.28	1.27	1.26	1.26
17.0000	1.25	1.24	1.23	1.23	1.22
17.2500	1.21	1.21	1.20	1.19	1.19
17.5000	1.18	1.17	1.17	1.16	1.15
17.7500	1.14	1.14	1.13	1.12	1.12
18.0000	1.11	1.10	1.09	1.09	1.08
18.2500	1.07	1.07	1.06	1.05	1.04
18.5000	1.04	1.03	1.02	1.02	1.01
18.7500	1.00	.99	.99	.98	.97
19.0000	.97	.96	.95	.94	.94
19.2500	.93	.92	.91	.91	.90
19.5000	.89	.89	.88	.87	.86
19.7500	.86	.85	.84	.83	.83
20.0000	.82	.81	.81	.80	.79
20.2500	.79	.79	.78	.78	.78
20.5000	.78	.77	.77	.77	.77
20.7500	.77	.77	.77	.76	.76
21.0000	.76	.76	.76	.76	.76
21.2500	.75	.75	.75	.75	.75
21.5000	.75	.75	.75	.74	.74
21.7500	.74	.74	.74	.74	.74
22.0000	.73	.73	.73	.73	.73
22.2500	.73	.73	.72	.72	.72
22.5000	.72	.72	.72	.72	.71
22.7500	.71	.71	.71	.71	.71
23.0000	.71	.70	.70	.70	.70
23.2500	.70	.70	.70	.70	.69
23.5000	.69	.69	.69	.69	.69
23.7500	.69	.68	.68	.68	.68
24.0000	.68	.66	.61	.53	.42
24.2500	.31	.22	.15	.10	.07
24.5000	.05	.03	.02	.02	.01
24.7500	.01	.00	.00	.00	.00

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK1	EXIST BASIN	FAIRMONT.HYG	EXIST BASIN	Pre100

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	EXIST BASIN	Pre100	6.799	12.1000	86.41

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	Pre100	6.799	12.1000	86.41

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = Pre100

Peak Discharge =	86.41 cfs
Time to Peak =	12.1000 hrs
HYG Volume =	6.799 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
5.7000	.00	.00	.00	.01	.01
5.9500	.02	.03	.04	.05	.06
6.2000	.07	.08	.09	.10	.11
6.4500	.12	.13	.14	.15	.16
6.7000	.18	.19	.20	.21	.22
6.9500	.24	.25	.26	.27	.28
7.2000	.30	.31	.32	.33	.35
7.4500	.36	.37	.39	.40	.41
7.7000	.43	.44	.45	.47	.48
7.9500	.49	.51	.52	.53	.55
8.2000	.57	.59	.61	.63	.66
8.4500	.68	.71	.74	.76	.79
8.7000	.82	.86	.89	.92	.95
8.9500	.99	1.02	1.06	1.09	1.13
9.2000	1.16	1.19	1.21	1.24	1.26
9.4500	1.28	1.30	1.32	1.34	1.37
9.7000	1.40	1.43	1.48	1.52	1.57
9.9500	1.62	1.68	1.74	1.80	1.86
10.2000	1.93	2.00	2.08	2.16	2.25
10.4500	2.34	2.43	2.52	2.62	2.73
10.7000	2.84	2.97	3.10	3.25	3.40
10.9500	3.55	3.71	3.88	4.07	4.28
11.2000	4.52	4.79	5.09	5.43	5.79
11.4500	6.17	6.60	7.21	8.30	10.25
11.7000	13.40	18.27	25.13	34.66	47.23
11.9500	62.01	75.92	84.88	86.41	79.03
12.2000	67.04	54.44	43.43	34.98	28.88
12.4500	24.34	20.85	18.12	15.90	14.09
12.7000	12.63	11.47	10.56	9.83	9.24
12.9500	8.74	8.32	7.96	7.64	7.36
13.2000	7.11	6.88	6.67	6.48	6.31
13.4500	6.14	5.97	5.82	5.67	5.52
13.7000	5.38	5.25	5.12	5.00	4.89

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
13.9500	4.77	4.66	4.55	4.45	4.35
14.2000	4.26	4.19	4.12	4.06	4.01
14.4500	3.97	3.92	3.88	3.84	3.80
14.7000	3.76	3.72	3.69	3.65	3.61
14.9500	3.57	3.53	3.50	3.46	3.42
15.2000	3.38	3.34	3.31	3.27	3.23
15.4500	3.19	3.16	3.12	3.08	3.04
15.7000	3.00	2.96	2.93	2.89	2.85
15.9500	2.81	2.77	2.73	2.70	2.66
16.2000	2.63	2.61	2.58	2.56	2.54
16.4500	2.53	2.51	2.50	2.48	2.47
16.7000	2.45	2.44	2.43	2.41	2.40
16.9500	2.39	2.37	2.36	2.34	2.33
17.2000	2.32	2.30	2.29	2.28	2.26
17.4500	2.25	2.24	2.22	2.21	2.19
17.7000	2.18	2.17	2.15	2.14	2.13
17.9500	2.11	2.10	2.08	2.07	2.06
18.2000	2.04	2.03	2.02	2.00	1.99
18.4500	1.97	1.96	1.95	1.93	1.92
18.7000	1.91	1.89	1.88	1.86	1.85
18.9500	1.84	1.82	1.81	1.79	1.78
19.2000	1.77	1.75	1.74	1.73	1.71
19.4500	1.70	1.68	1.67	1.66	1.64
19.7000	1.63	1.61	1.60	1.59	1.57
19.9500	1.56	1.54	1.53	1.52	1.51
20.2000	1.49	1.49	1.48	1.47	1.47
20.4500	1.46	1.46	1.46	1.45	1.45
20.7000	1.45	1.44	1.44	1.44	1.44
20.9500	1.43	1.43	1.43	1.43	1.42
21.2000	1.42	1.42	1.41	1.41	1.41
21.4500	1.41	1.40	1.40	1.40	1.40
21.7000	1.39	1.39	1.39	1.39	1.38
21.9500	1.38	1.38	1.37	1.37	1.37
22.2000	1.37	1.36	1.36	1.36	1.36
22.4500	1.35	1.35	1.35	1.34	1.34
22.7000	1.34	1.34	1.33	1.33	1.33
22.9500	1.33	1.32	1.32	1.32	1.31
23.2000	1.31	1.31	1.31	1.30	1.30
23.4500	1.30	1.29	1.29	1.29	1.29
23.7000	1.28	1.28	1.28	1.28	1.27
23.9500	1.27	1.26	1.23	1.14	.98
24.2000	.78	.58	.40	.28	.19
24.4500	.13	.09	.06	.04	.03
24.7000	.02	.01	.01	.01	.00
24.9500	.00	.00			

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MASTER DESIGN STORM SUMMARY

Default Network Design Storm File, ID WICHITA.RNQ WICHITA

Return Event	Total Depth in	Rainfall Type	RNF File	RNF ID
Dev..2	3.6000	Synthetic Curve	SCSTYPES	TypeII 24hr
Dev..5	4.5600	Synthetic Curve	SCSTYPES	TypeII 24hr
Dev100	7.6800	Synthetic Curve	SCSTYPES	TypeII 24hr

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
*127TH	JCT	2	2.212		12.0500	32.14		
*127TH	JCT	5	3.178		12.0500	45.96		
*127TH	JCT	100	6.534		12.0500	92.02		
J1	JCT	2	.998		12.0500	14.50		
J1	JCT	5	1.441		12.0500	20.87		
J1	JCT	100	2.989		12.0500	42.22		
NORTH	AREA	2	.415		12.0500	6.02		
NORTH	AREA	5	.607		12.0500	8.82		
NORTH	AREA	100	1.287		12.0500	18.31		
NORTHWEST	AREA	2	.583		12.0500	8.47		
NORTHWEST	AREA	5	.834		12.0500	12.05		
NORTHWEST	AREA	100	1.702		12.0500	23.91		
SITE	AREA	2	1.214		12.0500	17.65		
SITE	AREA	5	1.737		12.0500	25.09		
SITE	AREA	100	3.545		12.0500	49.81		

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.6000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTH Dev..2
Tc = .2500 hrs
Drainage Area = 2.900 acres Runoff CN= 80

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 6.04 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 6.02 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 80
Area = 2.900 acres
S = 2.5000 in
0.2S = .5000 in

Cumulative Runoff

1.7161 in
.415 ac-ft

HYG Volume... .415 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 13.14 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 5 year storm
Duration = 24.0000 hrs Rain Depth = 4.5600 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTH Dev..5
Tc = .2500 hrs
Drainage Area = 2.900 acres Runoff CN= 80

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 8.87 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 8.82 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 80
Area = 2.900 acres
S = 2.5000 in
0.2S = .5000 in

Cumulative Runoff

2.5127 in
.607 ac-ft

HYG Volume... .607 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 13.14 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.6800 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTH Dev100
Tc = .2500 hrs
Drainage Area = 2.900 acres Runoff CN= 80

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 18.52 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 18.31 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 80
Area = 2.900 acres
S = 2.5000 in
0.2S = .5000 in

Cumulative Runoff

5.3257 in
1.287 ac-ft

HYG Volume... 1.287 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 13.14 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.6000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTHWEST Dev..2
Tc = .2500 hrs
Drainage Area = 3.600 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 8.52 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 8.47 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 3.600 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

1.9430 in
.583 ac-ft

HYG Volume... .583 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 16.32 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 5 year storm
Duration = 24.0000 hrs Rain Depth = 4.5600 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTHWEST Dev..5
Tc = .2500 hrs
Drainage Area = 3.600 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 12.15 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 12.05 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 3.600 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

2.7790 in
.834 ac-ft

HYG Volume... .834 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 16.32 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.6800 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTHWEST Dev100
Tc = .2500 hrs
Drainage Area = 3.600 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 24.21 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 23.91 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 3.600 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

5.6724 in
1.702 ac-ft

HYG Volume... 1.702 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 16.32 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.6000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - SITE Dev..2
Tc = .2500 hrs
Drainage Area = 7.500 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 17.75 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 17.65 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 7.500 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

1.9430 in
1.214 ac-ft

HYG Volume... 1.214 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 33.99 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 5 year storm
Duration = 24.0000 hrs Rain Depth = 4.5600 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - SITE Dev..5
Tc = .2500 hrs
Drainage Area = 7.500 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 25.31 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 25.09 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 7.500 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

2.7790 in
1.737 ac-ft

HYG Volume... 1.737 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 33.99 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.6800 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - SITE Dev100
Tc = .2500 hrs
Drainage Area = 7.500 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 50.45 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 49.81 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 7.500 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

5.6724 in
3.545 ac-ft

HYG Volume... 3.545 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 33.99 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK4	J1	FAIRMONT.HYG	J1	Dev..2
LINK3	SITE	FAIRMONT.HYG	SITE	Dev..2

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	J1	Dev..2	.998	12.0500	14.50
FAIRMONT.HYG	SITE	Dev..2	1.214	12.0500	17.65

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	Dev..2	2.212	12.0500	32.14

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = Dev..2

Peak Discharge =	32.14 cfs
Time to Peak =	12.0500 hrs
HYG Volume =	2.212 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
7.8500	.00	.00	.00	.01	.01
8.1000	.01	.02	.02	.02	.03
8.3500	.03	.04	.04	.05	.05
8.6000	.06	.06	.07	.07	.08
8.8500	.09	.09	.10	.11	.12
9.1000	.13	.14	.14	.15	.16
9.3500	.17	.18	.18	.19	.20
9.6000	.21	.21	.22	.24	.25
9.8500	.26	.28	.29	.31	.32
10.1000	.34	.36	.37	.40	.42
10.3500	.44	.46	.49	.51	.54
10.6000	.57	.60	.64	.67	.71
10.8500	.76	.80	.85	.90	.95
11.1000	1.01	1.07	1.15	1.24	1.34
11.3500	1.45	1.56	1.68	1.81	2.03
11.6000	2.46	3.33	4.68	6.79	9.54
11.8500	13.58	19.12	25.67	30.79	32.14
12.1000	29.62	23.84	18.01	13.54	10.57
12.3500	8.69	7.33	6.36	5.59	4.96
12.6000	4.44	4.02	3.69	3.45	3.27
12.8500	3.13	3.01	2.90	2.80	2.69
13.1000	2.60	2.51	2.44	2.37	2.31
13.3500	2.25	2.19	2.14	2.08	2.03
13.6000	1.98	1.93	1.88	1.84	1.80
13.8500	1.76	1.72	1.68	1.64	1.60
14.1000	1.57	1.53	1.51	1.49	1.47
14.3500	1.45	1.44	1.42	1.41	1.39
14.6000	1.38	1.37	1.35	1.34	1.33
14.8500	1.31	1.30	1.29	1.27	1.26
15.1000	1.25	1.23	1.22	1.21	1.19
15.3500	1.18	1.16	1.15	1.14	1.12
15.6000	1.11	1.10	1.08	1.07	1.05
15.8500	1.04	1.03	1.01	1.00	.99

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
16.1000	.97	.96	.95	.94	.94
16.3500	.93	.93	.92	.92	.91
16.6000	.91	.90	.90	.89	.89
16.8500	.88	.88	.87	.87	.86
17.1000	.86	.85	.85	.84	.84
17.3500	.83	.83	.82	.82	.81
17.6000	.81	.80	.80	.79	.79
17.8500	.78	.78	.77	.77	.76
18.1000	.76	.75	.75	.74	.74
18.3500	.73	.73	.72	.72	.71
18.6000	.71	.70	.70	.69	.69
18.8500	.68	.68	.67	.67	.66
19.1000	.66	.65	.65	.64	.64
19.3500	.63	.63	.62	.62	.61
19.6000	.61	.60	.60	.59	.59
19.8500	.58	.58	.57	.57	.56
20.1000	.56	.55	.55	.55	.55
20.3500	.54	.54	.54	.54	.54
20.6000	.54	.54	.54	.54	.53
20.8500	.53	.53	.53	.53	.53
21.1000	.53	.53	.53	.53	.52
21.3500	.52	.52	.52	.52	.52
21.6000	.52	.52	.52	.52	.51
21.8500	.51	.51	.51	.51	.51
22.1000	.51	.51	.51	.50	.50
22.3500	.50	.50	.50	.50	.50
22.6000	.50	.50	.50	.49	.49
22.8500	.49	.49	.49	.49	.49
23.1000	.49	.49	.48	.48	.48
23.3500	.49	.48	.48	.48	.48
23.6000	.48	.48	.47	.47	.45
23.8500	.48	.47	.29	.19	.12
24.1000	.40	.29	.03	.02	.01
24.3500	.04	.03	.00		
24.6000	.00	.00			

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK4	J1	FAIRMONT.HYG	J1	Dev..5
LINK3	SITE	FAIRMONT.HYG	SITE	Dev..5

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	J1	Dev..5	1.441	12.0500	20.87
FAIRMONT.HYG	SITE	Dev..5	1.737	12.0500	25.09

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	Dev..5	3.178	12.0500	45.96

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = Dev..5

Peak Discharge =	45.96 cfs
Time to Peak =	12.0500 hrs
HYG Volume =	3.178 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6500	.00	.00	.00	.01	.01
6.9000	.02	.02	.02	.03	.03
7.1500	.04	.04	.05	.05	.05
7.4000	.06	.06	.07	.07	.08
7.6500	.08	.09	.09	.10	.11
7.9000	.11	.12	.12	.13	.14
8.1500	.14	.15	.16	.17	.18
8.4000	.19	.20	.21	.22	.23
8.6500	.24	.26	.27	.28	.30
8.9000	.31	.32	.34	.35	.37
9.1500	.38	.40	.41	.42	.43
9.4000	.44	.45	.46	.47	.48
9.6500	.49	.51	.53	.55	.57
9.9000	.59	.62	.64	.67	.70
10.1500	.72	.76	.79	.83	.86
10.4000	.90	.94	.98	1.03	1.07
10.6500	1.12	1.18	1.24	1.30	1.37
10.9000	1.44	1.51	1.59	1.67	1.75
11.1500	1.86	1.98	2.12	2.27	2.44
11.4000	2.61	2.80	2.99	3.33	4.00
11.6500	5.34	7.43	10.63	14.72	20.56
11.9000	28.45	37.56	44.48	45.96	42.03
12.1500	33.67	25.34	18.99	14.77	12.10
12.4000	10.17	8.80	7.71	6.84	6.11
12.6500	5.52	5.07	4.73	4.48	4.29
12.9000	4.12	3.97	3.82	3.68	3.55
13.1500	3.43	3.32	3.23	3.14	3.06
13.4000	2.99	2.91	2.84	2.76	2.69
13.6500	2.62	2.56	2.50	2.44	2.39
13.9000	2.33	2.28	2.23	2.17	2.13
14.1500	2.08	2.05	2.01	1.99	1.97
14.4000	1.95	1.93	1.91	1.89	1.87
14.6500	1.85	1.83	1.81	1.80	1.78

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
14.9000	1.76	1.74	1.72	1.70	1.69
15.1500	1.67	1.65	1.63	1.61	1.59
15.4000	1.57	1.56	1.54	1.52	1.50
15.6500	1.48	1.46	1.44	1.42	1.41
15.9000	1.39	1.37	1.35	1.33	1.31
16.1500	1.30	1.28	1.27	1.26	1.26
16.4000	1.25	1.24	1.23	1.23	1.22
16.6500	1.21	1.21	1.20	1.19	1.19
16.9000	1.18	1.17	1.17	1.16	1.15
17.1500	1.15	1.14	1.13	1.13	1.12
17.4000	1.11	1.11	1.10	1.09	1.09
17.6500	1.08	1.07	1.07	1.06	1.05
17.9000	1.05	1.04	1.03	1.03	1.02
18.1500	1.01	1.01	1.00	.99	.99
18.4000	.98	.97	.97	.96	.95
18.6500	.95	.94	.93	.92	.92
18.9000	.91	.90	.90	.89	.88
19.1500	.88	.87	.86	.86	.85
19.4000	.84	.84	.83	.82	.81
19.6500	.81	.80	.79	.79	.78
19.9000	.77	.77	.76	.75	.75
20.1500	.74	.74	.73	.73	.73
20.4000	.73	.73	.72	.72	.72
20.6500	.72	.72	.72	.72	.71
20.9000	.71	.71	.71	.71	.71
21.1500	.71	.71	.70	.70	.70
21.4000	.70	.70	.70	.70	.70
21.6500	.69	.69	.69	.69	.69
21.9000	.69	.69	.68	.68	.68
22.1500	.68	.68	.68	.68	.68
22.4000	.67	.67	.67	.67	.67
22.6500	.67	.67	.66	.66	.66
22.9000	.66	.66	.66	.66	.66
23.1500	.65	.65	.65	.65	.65
23.4000	.65	.65	.64	.64	.64
23.6500	.64	.64	.64	.64	.63
23.9000	.63	.63	.63	.61	.53
24.1500	.39	.26	.16	.10	.06
24.4000	.04	.02	.01	.01	.00
24.6500	.00	.00			

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK4	J1	FAIRMONT.HYG	J1	Dev100
LINK3	SITE	FAIRMONT.HYG	SITE	Dev100

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	J1	Dev100	2.989	12.0500	42.22
FAIRMONT.HYG	SITE	Dev100	3.545	12.0500	49.81

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	Dev100	6.534	12.0500	92.02

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = Dev100

Peak Discharge =	92.02 cfs
Time to Peak =	12.0500 hrs
HYG Volume =	6.534 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
4.4500	.00	.00	.00	.01	.01
4.7000	.02	.03	.03	.04	.05
4.9500	.06	.06	.07	.08	.09
5.2000	.09	.10	.11	.12	.13
5.4500	.14	.15	.16	.17	.18
5.7000	.19	.20	.21	.23	.24
5.9500	.25	.26	.27	.28	.29
6.2000	.30	.32	.33	.34	.35
6.4500	.36	.37	.39	.40	.41
6.7000	.42	.43	.45	.46	.47
6.9500	.48	.50	.51	.52	.53
7.2000	.55	.56	.57	.59	.60
7.4500	.61	.62	.64	.65	.66
7.7000	.68	.69	.70	.72	.73
7.9500	.75	.76	.77	.79	.81
8.2000	.83	.85	.88	.91	.94
8.4500	.97	1.00	1.03	1.06	1.10
8.7000	1.13	1.17	1.20	1.24	1.27
8.9500	1.31	1.35	1.39	1.42	1.46
9.2000	1.48	1.51	1.53	1.55	1.57
9.4500	1.58	1.60	1.62	1.64	1.67
9.7000	1.70	1.75	1.80	1.85	1.91
9.9500	1.96	2.03	2.09	2.15	2.23
10.2000	2.30	2.38	2.47	2.56	2.65
10.4500	2.75	2.84	2.94	3.05	3.17
10.7000	3.29	3.43	3.58	3.73	3.89
10.9500	4.06	4.23	4.41	4.60	4.84
11.2000	5.11	5.43	5.77	6.15	6.53
11.4500	6.94	7.35	8.11	9.61	12.66
11.7000	17.32	24.28	32.94	44.86	60.47
11.9500	77.89	90.44	92.02	83.18	66.15
12.2000	49.47	36.89	28.52	23.25	19.44
12.4500	16.74	14.62	12.93	11.52	10.39

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
12.7000	9.52	8.88	8.40	8.04	7.71
12.9500	7.42	7.14	6.87	6.63	6.40
13.2000	6.20	6.02	5.85	5.70	5.55
13.4500	5.41	5.27	5.13	5.00	4.87
13.7000	4.75	4.63	4.53	4.42	4.32
13.9500	4.22	4.12	4.02	3.93	3.85
14.2000	3.78	3.72	3.68	3.63	3.59
14.4500	3.56	3.52	3.48	3.45	3.41
14.7000	3.38	3.34	3.31	3.28	3.24
14.9500	3.21	3.17	3.14	3.10	3.07
15.2000	3.03	3.00	2.96	2.93	2.89
15.4500	2.86	2.82	2.79	2.75	2.72
15.7000	2.68	2.65	2.61	2.58	2.54
15.9500	2.51	2.47	2.44	2.41	2.38
16.2000	2.35	2.33	2.32	2.30	2.29
16.4500	2.27	2.26	2.25	2.23	2.22
16.7000	2.21	2.20	2.19	2.17	2.16
16.9500	2.15	2.14	2.12	2.11	2.10
17.2000	2.09	2.07	2.06	2.05	2.04
17.4500	2.02	2.01	2.00	1.99	1.97
17.7000	1.96	1.95	1.94	1.92	1.91
17.9500	1.90	1.89	1.87	1.86	1.85
18.2000	1.84	1.82	1.81	1.80	1.78
18.4500	1.77	1.76	1.75	1.73	1.72
18.7000	1.71	1.70	1.68	1.67	1.66
18.9500	1.65	1.63	1.62	1.61	1.60
19.2000	1.58	1.57	1.56	1.54	1.53
19.4500	1.52	1.51	1.49	1.48	1.47
19.7000	1.46	1.44	1.43	1.42	1.41
19.9500	1.39	1.38	1.37	1.36	1.35
20.2000	1.34	1.33	1.33	1.32	1.32
20.4500	1.32	1.32	1.31	1.31	1.31
20.7000	1.30	1.30	1.30	1.30	1.29
20.9500	1.29	1.29	1.29	1.29	1.28
21.2000	1.28	1.28	1.28	1.27	1.27
21.4500	1.27	1.27	1.26	1.26	1.26
21.7000	1.26	1.25	1.25	1.25	1.25
21.9500	1.24	1.24	1.24	1.24	1.23
22.2000	1.23	1.23	1.23	1.22	1.22
22.4500	1.22	1.22	1.21	1.21	1.21
22.7000	1.21	1.20	1.20	1.20	1.20
22.9500	1.19	1.19	1.19	1.19	1.18
23.2000	1.18	1.18	1.18	1.17	1.17
23.4500	1.17	1.17	1.16	1.16	1.16
23.7000	1.16	1.15	1.15	1.15	1.15
23.9500	1.14	1.14	1.09	.95	.71
24.2000	.47	.29	.17	.11	.06

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
24.4500	.04	.02	.01	.01	.00
24.7000	.00	.00			

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MASTER DESIGN STORM SUMMARY

Default Network Design Storm File, ID WICHITA.RNQ WICHITA

Return Event	Total Depth in	Rainfall Type	RNF File	RNF ID
A....2	3.6000	Synthetic Curve	SCSTYPES	TypeII 24hr
A....5	4.5600	Synthetic Curve	SCSTYPES	TypeII 24hr
A..100	7.6800	Synthetic Curve	SCSTYPES	TypeII 24hr

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID		Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
*127TH		JCT	2	2.211		12.0500	16.49		
*127TH		JCT	5	3.176		12.0500	24.97		
*127TH		JCT	100	6.533		12.1000	69.16		
J1		JCT	2	.998		12.0500	14.50		
J1		JCT	5	1.441		12.0500	20.87		
J1		JCT	100	2.989		12.0500	42.22		
NORTH		AREA	2	.415		12.0500	6.02		
NORTH		AREA	5	.607		12.0500	8.82		
NORTH		AREA	100	1.287		12.0500	18.31		
NORTHWEST		AREA	2	.583		12.0500	8.47		
NORTHWEST		AREA	5	.834		12.0500	12.05		
NORTHWEST		AREA	100	1.702		12.0500	23.91		
POND	IN	POND	2	1.214		12.0500	17.65		
POND	IN	POND	5	1.737		12.0500	25.09		
POND	IN	POND	100	3.545		12.0500	49.81		
POND	OUT	POND	2	1.213		12.4000	4.16	187.11	.524
POND	OUT	POND	5	1.735		12.3500	7.19	187.51	.731
POND	OUT	POND	100	3.544		12.1500	36.72	188.29	1.173

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
SITE	AREA	2	1.214		12.0500	17.65		
SITE	AREA	5	1.737		12.0500	25.09		
SITE	AREA	100	3.545		12.0500	49.81		

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.6000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTH A....2
Tc = .2500 hrs
Drainage Area = 2.900 acres Runoff CN= 80

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 6.04 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 6.02 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 80
Area = 2.900 acres
S = 2.5000 in
0.2S = .5000 in

Cumulative Runoff

1.7161 in
.415 ac-ft

HYG Volume... .415 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 13.14 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 5 year storm
Duration = 24.0000 hrs Rain Depth = 4.5600 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTH A....5
Tc = .2500 hrs
Drainage Area = 2.900 acres Runoff CN= 80

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 8.87 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 8.82 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 80
Area = 2.900 acres
S = 2.5000 in
0.2S = .5000 in

Cumulative Runoff

2.5127 in
.607 ac-ft

HYG Volume... .607 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 13.14 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.6800 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTH A..100
Tc = .2500 hrs
Drainage Area = 2.900 acres Runoff CN= 80

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 18.52 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 18.31 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 80
Area = 2.900 acres
S = 2.5000 in
0.2S = .5000 in

Cumulative Runoff

5.3257 in
1.287 ac-ft

HYG Volume... 1.287 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 13.14 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.6000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTHWEST A....2
Tc = .2500 hrs
Drainage Area = 3.600 acres Runoff CN= 83

==========

Computational Time Increment	=	.03333 hrs
Computed Peak Time	=	12.0333 hrs
Computed Peak Flow	=	8.52 cfs
Time Increment for HYG File	=	.0500 hrs
Peak Time, Interpolated Output	=	12.0500 hrs
Peak Flow, Interpolated Output	=	8.47 cfs

==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 3.600 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

1.9430 in
.583 ac-ft

HYG Volume... .583 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak,	qp =	16.32 cfs
Unit peak time	Tp =	.16667 hrs
Unit receding limb,	Tr =	.66667 hrs
Total unit time,	Tb =	.83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 5 year storm
Duration = 24.0000 hrs Rain Depth = 4.5600 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTHWEST A....5
Tc = .2500 hrs
Drainage Area = 3.600 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 12.15 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 12.05 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 3.600 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

2.7790 in
.834 ac-ft

HYG Volume... .834 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 16.32 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.6800 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - NORTHWEST A..100
Tc = .2500 hrs
Drainage Area = 3.600 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 24.21 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 23.91 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 3.600 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

5.6724 in
1.702 ac-ft

HYG Volume... 1.702 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 16.32 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.6000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - SITE A....2
Tc = .2500 hrs
Drainage Area = 7.500 acres Runoff CN= 83

==========

Computational Time Increment	=	.03333 hrs
Computed Peak Time	=	12.0333 hrs
Computed Peak Flow	=	17.75 cfs
Time Increment for HYG File	=	.0500 hrs
Peak Time, Interpolated Output	=	12.0500 hrs
Peak Flow, Interpolated Output	=	17.65 cfs

==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 7.500 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

1.9430 in
1.214 ac-ft

HYG Volume... 1.214 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak,	qp =	33.99 cfs
Unit peak time	Tp =	.16667 hrs
Unit receding limb,	Tr =	.66667 hrs
Total unit time,	Tb =	.83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 5 year storm
Duration = 24.0000 hrs Rain Depth = 4.5600 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - SITE A....5
Tc = .2500 hrs
Drainage Area = 7.500 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 25.31 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 25.09 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 7.500 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

2.7790 in
1.737 ac-ft

HYG Volume... 1.737 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 33.99 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.6800 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
HYG File - ID = FAIRMONT.HYG - SITE A..100
Tc = .2500 hrs
Drainage Area = 7.500 acres Runoff CN= 83

==========
Computational Time Increment = .03333 hrs
Computed Peak Time = 12.0333 hrs
Computed Peak Flow = 50.45 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.0500 hrs
Peak Flow, Interpolated Output = 49.81 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 83
Area = 7.500 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff

5.6724 in
3.545 ac-ft

HYG Volume... 3.545 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .25000 hrs (ID: None Selected)
Computational Incr, Tm = .03333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 33.99 cfs
Unit peak time Tp = .16667 hrs
Unit receding limb, Tr = .66667 hrs
Total unit time, Tb = .83333 hrs

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID		HYG file	HYG ID	HYG tag
LINK4	J1		FAIRMONT.HYG	J1	A....2
OUTFALL	POND	IN	FAIRMONT.HYG	OUTFALL	A....2

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	J1	A....2	.998	12.0500	14.50
FAIRMONT.HYG	OUTFALL	A....2	1.213	12.4000	4.16

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	A....2	2.211	12.0500	16.49

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = A....2

Peak Discharge =	16.49 cfs
Time to Peak =	12.0500 hrs
HYG Volume =	2.211 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
7.9000	.00	.00	.00	.00	.00
8.1500	.01	.01	.01	.01	.01
8.4000	.01	.01	.02	.02	.02
8.6500	.02	.02	.03	.03	.03
8.9000	.04	.04	.04	.05	.05
9.1500	.06	.06	.06	.07	.07
9.4000	.08	.08	.09	.09	.10
9.6500	.10	.11	.11	.12	.13
9.9000	.13	.14	.15	.16	.16
10.1500	.17	.18	.20	.21	.22
10.4000	.23	.24	.26	.27	.29
10.6500	.30	.32	.34	.36	.38
10.9000	.41	.43	.46	.48	.51
11.1500	.55	.59	.63	.68	.73
11.4000	.79	.85	.92	1.02	1.22
11.6500	1.62	2.24	3.20	4.48	6.43
11.9000	9.15	12.40	15.26	16.49	16.07
12.1500	14.03	11.83	10.08	8.88	8.10
12.4000	7.49	7.03	6.63	6.28	5.97
12.6500	5.69	5.44	5.23	5.05	4.89
12.9000	4.74	4.61	4.48	4.36	4.23
13.1500	4.12	4.01	3.90	3.80	3.70
13.4000	3.61	3.52	3.43	3.34	3.25
13.6500	3.17	3.09	3.01	2.94	2.87
13.9000	2.80	2.73	2.68	2.62	2.57
14.1500	2.52	2.47	2.42	2.38	2.34
14.4000	2.30	2.26	2.22	2.19	2.15
14.6500	2.12	2.08	2.05	2.02	1.98
14.9000	1.95	1.92	1.89	1.86	1.84
15.1500	1.81	1.78	1.75	1.73	1.70
15.4000	1.68	1.65	1.63	1.60	1.58
15.6500	1.55	1.53	1.51	1.49	1.46
15.9000	1.44	1.42	1.40	1.38	1.36

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
16.1500	1.34	1.33	1.32	1.30	1.29
16.4000	1.28	1.27	1.26	1.25	1.24
16.6500	1.23	1.22	1.21	1.20	1.19
16.9000	1.18	1.17	1.16	1.15	1.14
17.1500	1.13	1.12	1.12	1.11	1.10
17.4000	1.09	1.08	1.07	1.06	1.06
17.6500	1.05	1.04	1.03	1.02	1.02
17.9000	1.01	1.00	.99	.98	.98
18.1500	.97	.96	.95	.95	.94
18.4000	.93	.93	.92	.91	.90
18.6500	.90	.89	.88	.88	.87
18.9000	.86	.86	.85	.84	.84
19.1500	.83	.82	.82	.81	.80
19.4000	.80	.79	.78	.78	.77
19.6500	.77	.76	.75	.75	.74
19.9000	.73	.73	.72	.72	.71
20.1500	.70	.70	.70	.69	.69
20.4000	.68	.68	.67	.67	.67
20.6500	.66	.66	.66	.65	.65
20.9000	.65	.64	.64	.64	.63
21.1500	.63	.63	.63	.62	.62
21.4000	.62	.62	.61	.61	.61
21.6500	.60	.60	.60	.60	.59
21.9000	.59	.59	.59	.59	.58
22.1500	.58	.58	.58	.57	.57
22.4000	.57	.57	.57	.56	.56
22.6500	.56	.56	.56	.55	.55
22.9000	.55	.55	.55	.55	.54
23.1500	.54	.54	.54	.54	.54
23.4000	.53	.53	.53	.53	.53
23.6500	.53	.52	.52	.52	.52
23.9000	.52	.52	.51	.51	.48
24.1500	.43	.38	.34	.31	.29
24.4000	.28	.27	.26	.25	.24
24.6500	.24	.24	.23	.23	.23
24.9000	.23	.23	.22	.22	.22
25.1500	.22	.22	.21	.21	.21
25.4000	.21	.21	.20	.20	.20
25.6500	.20	.20	.20	.19	.19
25.9000	.19	.19	.19	.19	.18
26.1500	.18	.18	.18	.18	.18
26.4000	.17	.17	.17	.17	.17
26.6500	.17	.17	.16	.16	.16
26.9000	.16	.16	.16	.16	.15
27.1500	.15	.15	.15	.15	.15
27.4000	.15	.15	.14	.14	.14
27.6500	.14	.14	.14	.14	.14

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
27.9000	.13	.13	.13	.13	.13
28.1500	.13	.13	.13	.13	.12
28.4000	.12	.12	.12	.12	.12
28.6500	.12	.12	.12	.11	.11
28.9000	.11	.11	.11	.11	.11
29.1500	.11	.11	.11	.10	.10
29.4000	.10	.10	.10	.10	.10
29.6500	.10	.10	.10	.10	.10
29.9000	.09	.09	.09	.09	.09
30.1500	.09	.09	.09	.09	.09
30.4000	.09	.09	.09	.08	.08
30.6500	.08	.08	.08	.08	.08
30.9000	.08	.08	.08	.08	.08
31.1500	.08	.08	.07	.07	.07
31.4000	.07	.07	.07	.07	.07
31.6500	.07	.07	.07	.07	.07
31.9000	.07	.07	.07	.06	.06
32.1500	.06	.06	.06	.06	.06
32.4000	.06	.06	.06	.06	.06
32.6500	.06	.06	.06	.06	.05
32.9000	.06	.06	.05	.05	.05
33.1500	.05	.05	.05	.05	.05
33.4000	.05	.05	.05	.05	.05
33.6500	.05	.05	.05	.05	.05
33.9000	.05	.05	.05	.04	.04
34.1500	.04	.04	.04	.04	.04
34.4000	.04	.04	.04	.04	.04
34.6500	.04	.04	.04	.04	.04
34.9000	.04	.04	.04	.04	.04
35.1500	.04	.04	.04	.04	.03
35.4000	.04	.04	.04	.03	.03
35.6500	.03	.03	.03	.03	.03
35.9000	.03	.03	.03	.03	.03
36.1500	.03	.03	.03	.03	.03
36.4000	.03	.03	.03	.03	.03
36.6500	.03	.03	.03	.03	.03
36.9000	.03	.03	.03	.03	.03
37.1500	.03	.03	.02	.02	.02
37.4000	.02	.02	.02	.02	.02
37.6500	.02	.02	.02	.02	.02
37.9000	.02	.02	.02	.02	.02
38.1500	.02	.02	.02	.02	.02
38.4000	.02	.02	.02	.02	.02
38.6500	.02	.02	.02	.02	.02
38.9000	.02	.02	.02	.02	.02
39.1500	.02	.02	.02	.02	.02
39.4000	.02	.02	.02	.02	.02

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
39.6500	.02	.02	.02	.02	.02
39.9000	.02	.02	.02	.02	.02
40.1500	.02	.02	.02	.02	.02
40.4000	.01	.01	.01	.01	.01
40.6500	.01	.01	.01	.01	.01
40.9000	.01	.01	.01	.01	.01
41.1500	.01	.01	.01	.01	.01
41.4000	.01	.01	.01	.01	.01
41.6500	.01	.01	.01	.01	.01
41.9000	.01	.01	.01	.01	.01
42.1500	.01	.01	.01	.01	.01
42.4000	.01	.01	.01	.01	.01
42.6500	.01	.01	.01	.01	.01
42.9000	.01	.01	.01	.01	.01
43.1500	.01	.01	.01	.01	.01
43.4000	.01	.01	.01	.01	.01
43.6500	.01	.01	.01	.01	.01
43.9000	.01	.01	.01	.01	.01
44.1500	.01	.01	.01	.01	.01
44.4000	.01	.01	.01	.01	.01
44.6500	.01	.01	.01	.01	.01
44.9000	.01	.01	.01	.01	.01
45.1500	.01	.01	.01	.01	.01
45.4000	.01	.01	.01	.01	.01
45.6500	.01	.01	.01	.01	.01
45.9000	.01	.01	.01	.01	.01
46.1500	.01	.01	.01	.01	.01
46.4000	.01	.01	.01	.01	.01
46.6500	.00	.00	.00	.00	.00
46.9000	.00	.00	.00	.00	.00
47.1500	.00	.00	.00	.00	.00
47.4000	.00	.00	.00	.00	.00
47.6500	.00	.00	.00	.00	.00
47.9000	.00	.00	.00	.00	.00
48.1500	.00	.00	.00	.00	.00
48.4000	.00	.00	.00	.00	.00
48.6500	.00	.00	.00	.00	.00
48.9000	.00	.00	.00	.00	.00
49.1500	.00	.00	.00	.00	.00
49.4000	.00	.00	.00	.00	.00

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID		HYG file	HYG ID	HYG tag
LINK4	J1		FAIRMONT.HYG	J1	A....5
OUTFALL	POND	IN	FAIRMONT.HYG	OUTFALL	A....5

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	J1	A....5	1.441	12.0500	20.87
FAIRMONT.HYG	OUTFALL	A....5	1.735	12.3500	7.19

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	A....5	3.176	12.0500	24.97

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = A....5

Peak Discharge =	24.97 cfs
Time to Peak =	12.0500 hrs
HYG Volume =	3.176 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
6.7000	.00	.00	.00	.00	.00
6.9500	.01	.01	.01	.01	.01
7.2000	.01	.02	.02	.02	.02
7.4500	.02	.03	.03	.03	.03
7.7000	.03	.04	.04	.04	.05
7.9500	.05	.05	.06	.06	.06
8.2000	.07	.07	.08	.08	.09
8.4500	.09	.10	.10	.11	.12
8.7000	.12	.13	.14	.14	.15
8.9500	.16	.17	.17	.18	.19
9.2000	.20	.21	.21	.22	.23
9.4500	.23	.24	.25	.25	.26
9.7000	.27	.28	.29	.30	.32
9.9500	.33	.34	.36	.37	.39
10.2000	.40	.42	.44	.46	.48
10.4500	.50	.53	.55	.57	.60
10.7000	.63	.66	.69	.73	.77
10.9500	.81	.85	.89	.94	.99
11.2000	1.05	1.12	1.20	1.28	1.37
11.4500	1.47	1.57	1.76	2.10	2.76
11.7000	3.77	5.31	7.31	10.18	14.23
11.9500	19.01	23.14	24.97	24.30	21.45
12.2000	18.27	15.71	13.92	12.72	11.77
12.4500	11.02	10.37	9.80	9.28	8.81
12.7000	8.39	8.03	7.71	7.43	7.16
12.9500	6.91	6.68	6.45	6.24	6.04
13.2000	5.84	5.66	5.49	5.32	5.16
13.4500	5.01	4.86	4.71	4.58	4.46
13.7000	4.35	4.24	4.13	4.02	3.92
13.9500	3.82	3.72	3.63	3.54	3.45
14.2000	3.37	3.29	3.22	3.15	3.09
14.4500	3.02	2.96	2.91	2.85	2.81
14.7000	2.76	2.72	2.68	2.64	2.60

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
14.9500	2.56	2.52	2.48	2.44	2.41
15.2000	2.37	2.34	2.30	2.27	2.23
15.4500	2.20	2.17	2.14	2.10	2.07
15.7000	2.04	2.01	1.98	1.95	1.92
15.9500	1.90	1.87	1.84	1.81	1.79
16.2000	1.76	1.74	1.72	1.70	1.68
16.4500	1.66	1.64	1.62	1.60	1.59
16.7000	1.57	1.55	1.54	1.52	1.51
16.9500	1.49	1.48	1.46	1.45	1.44
17.2000	1.43	1.42	1.41	1.40	1.39
17.4500	1.38	1.37	1.36	1.35	1.34
17.7000	1.33	1.32	1.31	1.30	1.29
17.9500	1.28	1.28	1.27	1.26	1.25
18.2000	1.24	1.23	1.22	1.21	1.21
18.4500	1.20	1.19	1.18	1.17	1.16
18.7000	1.15	1.15	1.14	1.13	1.12
18.9500	1.11	1.11	1.10	1.09	1.08
19.2000	1.07	1.06	1.06	1.05	1.04
19.4500	1.03	1.02	1.02	1.01	1.00
19.7000	.99	.99	.98	.97	.96
19.9500	.95	.95	.94	.93	.93
20.2000	.92	.91	.91	.90	.90
20.4500	.89	.89	.88	.88	.87
20.7000	.87	.87	.86	.86	.85
20.9500	.85	.85	.84	.84	.83
21.2000	.83	.83	.82	.82	.82
21.4500	.81	.81	.81	.80	.80
21.7000	.80	.79	.79	.79	.78
21.9500	.78	.78	.78	.77	.77
22.2000	.77	.77	.76	.76	.76
22.4500	.75	.75	.75	.75	.74
22.7000	.74	.74	.74	.73	.73
22.9500	.73	.73	.73	.72	.72
23.2000	.72	.72	.71	.71	.71
23.4500	.71	.71	.70	.70	.70
23.7000	.70	.70	.69	.69	.69
23.9500	.69	.69	.67	.63	.57
24.2000	.50	.45	.41	.39	.37
24.4500	.36	.34	.33	.32	.31
24.7000	.31	.30	.29	.29	.28
24.9500	.27	.27	.26	.25	.25
25.2000	.24	.24	.23	.23	.23
25.4500	.23	.23	.22	.22	.22
25.7000	.22	.22	.21	.21	.21
25.9500	.21	.21	.21	.20	.20
26.2000	.20	.20	.20	.20	.19
26.4500	.19	.19	.19	.19	.19

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
26.7000	.18	.18	.18	.18	.18
26.9500	.18	.17	.17	.17	.17
27.2000	.17	.17	.17	.16	.16
27.4500	.16	.16	.16	.16	.16
27.7000	.15	.15	.15	.15	.15
27.9500	.15	.15	.14	.14	.14
28.2000	.14	.14	.14	.14	.14
28.4500	.13	.13	.13	.13	.13
28.7000	.13	.13	.13	.13	.12
28.9500	.12	.12	.12	.12	.12
29.2000	.12	.12	.12	.12	.11
29.4500	.11	.11	.11	.11	.11
29.7000	.11	.11	.11	.11	.10
29.9500	.10	.10	.10	.10	.10
30.2000	.10	.10	.10	.10	.10
30.4500	.10	.09	.09	.09	.09
30.7000	.09	.09	.09	.09	.09
30.9500	.09	.09	.09	.08	.08
31.2000	.08	.08	.08	.08	.08
31.4500	.08	.08	.08	.08	.08
31.7000	.08	.08	.07	.07	.07
31.9500	.07	.07	.07	.07	.07
32.2000	.07	.07	.07	.07	.07
32.4500	.07	.07	.07	.07	.06
32.7000	.06	.06	.06	.06	.06
32.9500	.06	.06	.06	.06	.06
33.2000	.06	.06	.06	.06	.06
33.4500	.06	.06	.06	.05	.05
33.7000	.05	.05	.05	.05	.05
33.9500	.05	.05	.05	.05	.05
34.2000	.05	.05	.05	.05	.05
34.4500	.05	.05	.05	.05	.05
34.7000	.05	.04	.04	.04	.04
34.9500	.04	.04	.04	.04	.04
35.2000	.04	.04	.04	.04	.04
35.4500	.04	.04	.04	.04	.04
35.7000	.04	.04	.04	.04	.04
35.9500	.04	.04	.04	.04	.03
36.2000	.03	.03	.03	.03	.03
36.4500	.03	.03	.03	.03	.03
36.7000	.03	.03	.03	.03	.03
36.9500	.03	.03	.03	.03	.03
37.2000	.03	.03	.03	.03	.03
37.4500	.03	.03	.03	.03	.03
37.7000	.03	.03	.03	.03	.03
37.9500	.03	.03	.03	.02	.02
38.2000	.02	.02	.02	.02	.02

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
38.4500	.02	.02	.02	.02	.02
38.7000	.02	.02	.02	.02	.02
38.9500	.02	.02	.02	.02	.02
39.2000	.02	.02	.02	.02	.02
39.4500	.02	.02	.02	.02	.02
39.7000	.02	.02	.02	.02	.02
39.9500	.02	.02	.02	.02	.02
40.2000	.02	.02	.02	.02	.02
40.4500	.02	.02	.02	.02	.02
40.7000	.02	.02	.02	.02	.02
40.9500	.02	.01	.01	.01	.01
41.2000	.01	.01	.01	.01	.01
41.4500	.01	.01	.01	.01	.01
41.7000	.01	.01	.01	.01	.01
41.9500	.01	.01	.01	.01	.01
42.2000	.01	.01	.01	.01	.01
42.4500	.01	.01	.01	.01	.01
42.7000	.01	.01	.01	.01	.01
42.9500	.01	.01	.01	.01	.01
43.2000	.01	.01	.01	.01	.01
43.4500	.01	.01	.01	.01	.01
43.7000	.01	.01	.01	.01	.01
43.9500	.01	.01	.01	.01	.01
44.2000	.01	.01	.01	.01	.01
44.4500	.01	.01	.01	.01	.01
44.7000	.01	.01	.01	.01	.01
44.9500	.01	.01	.01	.01	.01
45.2000	.01	.01	.01	.01	.01
45.4500	.01	.01	.01	.01	.01
45.7000	.01	.01	.01	.01	.01
45.9500	.01	.01	.01	.01	.01
46.2000	.01	.01	.01	.01	.01
46.4500	.01	.01	.01	.01	.01
46.7000	.01	.01	.01	.01	.01
46.9500	.01	.01	.01	.01	.01
47.2000	.01	.00	.00	.00	.00
47.4500	.00	.00	.00	.00	.00
47.7000	.00	.00	.00	.00	.00
47.9500	.00	.00	.00	.00	.00
48.2000	.00	.00	.00	.00	.00
48.4500	.00	.00	.00	.00	.00
48.7000	.00	.00	.00	.00	.00
48.9500	.00	.00	.00	.00	.00
49.2000	.00	.00	.00	.00	.00
49.4500	.00	.00	.00	.00	.00
49.7000	.00	.00	.00	.00	.00
49.9500	.00	.00	.00	.00	.00

SUMMARY FOR HYDROGRAPH ADDITION
at Node: 127TH

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID		HYG file	HYG ID	HYG tag
LINK4	J1		FAIRMONT.HYG	J1	A..100
OUTFALL	POND	IN	FAIRMONT.HYG	OUTFALL	A..100

INFLOWS TO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	J1	A..100	2.989	12.0500	42.22
FAIRMONT.HYG	OUTFALL	A..100	3.544	12.1500	36.72

TOTAL FLOW INTO: 127TH

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	127TH	A..100	6.533	12.1000	69.16

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = 127TH
HYG Tag = A..100

Peak Discharge =	69.16 cfs
Time to Peak =	12.1000 hrs
HYG Volume =	6.533 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
4.5000	.00	.00	.00	.00	.01
4.7500	.01	.01	.01	.02	.02
5.0000	.02	.03	.03	.03	.03
5.2500	.04	.04	.05	.05	.06
5.5000	.06	.07	.07	.08	.08
5.7500	.09	.09	.10	.11	.11
6.0000	.12	.13	.13	.14	.14
6.2500	.15	.16	.16	.17	.18
6.5000	.19	.19	.20	.21	.21
6.7500	.22	.23	.24	.24	.25
7.0000	.26	.27	.28	.28	.29
7.2500	.30	.31	.32	.32	.33
7.5000	.34	.35	.36	.37	.38
7.7500	.38	.39	.40	.41	.42
8.0000	.43	.44	.45	.46	.47
8.2500	.49	.50	.52	.53	.55
8.5000	.57	.59	.61	.62	.64
8.7500	.66	.68	.71	.73	.75
9.0000	.77	.79	.81	.83	.85
9.2500	.87	.89	.90	.91	.93
9.5000	.94	.96	.98	1.01	1.04
9.7500	1.08	1.12	1.16	1.20	1.24
10.0000	1.29	1.34	1.38	1.44	1.49
10.2500	1.55	1.61	1.67	1.73	1.80
10.5000	1.86	1.93	2.01	2.08	2.17
10.7500	2.26	2.36	2.46	2.56	2.67
11.0000	2.78	2.90	3.04	3.21	3.40
11.2500	3.61	3.83	4.08	4.34	4.60
11.5000	4.88	5.33	6.13	7.67	10.07
11.7500	13.67	18.24	24.65	33.20	43.18
12.0000	51.43	60.27	69.16	67.11	55.97
12.2500	45.30	36.76	30.09	24.88	20.92
12.5000	18.29	17.24	16.28	15.43	14.68

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
12.7500	14.03	13.46	12.96	12.49	12.04
13.0000	11.61	11.20	10.80	10.43	10.07
13.2500	9.75	9.45	9.15	8.88	8.60
13.5000	8.34	8.09	7.85	7.61	7.39
13.7500	7.19	7.00	6.81	6.63	6.46
14.0000	6.29	6.12	5.97	5.82	5.68
14.2500	5.54	5.42	5.31	5.20	5.09
14.5000	5.00	4.91	4.83	4.75	4.67
14.7500	4.59	4.52	4.44	4.37	4.30
15.0000	4.24	4.17	4.10	4.04	3.98
15.2500	3.92	3.86	3.80	3.74	3.69
15.5000	3.63	3.58	3.52	3.47	3.42
15.7500	3.37	3.32	3.27	3.22	3.17
16.0000	3.13	3.09	3.05	3.01	2.97
16.2500	2.94	2.91	2.88	2.85	2.83
16.5000	2.80	2.77	2.75	2.72	2.70
16.7500	2.68	2.65	2.63	2.61	2.58
17.0000	2.56	2.54	2.52	2.50	2.48
17.2500	2.46	2.44	2.42	2.40	2.38
17.5000	2.36	2.34	2.32	2.30	2.29
17.7500	2.27	2.25	2.23	2.22	2.20
18.0000	2.18	2.17	2.15	2.13	2.12
18.2500	2.10	2.08	2.07	2.05	2.04
18.5000	2.02	2.00	1.99	1.97	1.96
18.7500	1.94	1.93	1.91	1.90	1.88
19.0000	1.87	1.85	1.84	1.83	1.81
19.2500	1.80	1.78	1.77	1.75	1.74
19.5000	1.73	1.71	1.70	1.68	1.67
19.7500	1.66	1.64	1.63	1.61	1.60
20.0000	1.59	1.57	1.56	1.55	1.54
20.2500	1.53	1.52	1.51	1.51	1.50
20.5000	1.50	1.49	1.49	1.48	1.48
20.7500	1.47	1.47	1.46	1.45	1.45
21.0000	1.45	1.44	1.44	1.43	1.43
21.2500	1.42	1.42	1.41	1.41	1.40
21.5000	1.40	1.39	1.39	1.39	1.38
21.7500	1.38	1.37	1.37	1.37	1.36
22.0000	1.36	1.35	1.35	1.35	1.34
22.2500	1.34	1.33	1.33	1.33	1.32
22.5000	1.32	1.32	1.31	1.31	1.30
22.7500	1.30	1.30	1.29	1.29	1.29
23.0000	1.28	1.28	1.28	1.27	1.27
23.2500	1.27	1.26	1.26	1.26	1.25
23.5000	1.25	1.25	1.24	1.24	1.24
23.7500	1.23	1.23	1.23	1.23	1.22
24.0000	1.22	1.20	1.13	1.01	.89
24.2500	.79	.73	.68	.65	.62

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
24.5000	.60	.58	.57	.55	.54
24.7500	.53	.51	.50	.49	.48
25.0000	.47	.45	.44	.43	.42
25.2500	.41	.40	.39	.38	.37
25.5000	.37	.36	.35	.34	.33
25.7500	.32	.32	.31	.30	.29
26.0000	.29	.28	.27	.27	.26
26.2500	.25	.25	.24	.24	.24
26.5000	.23	.23	.23	.23	.23
26.7500	.22	.22	.22	.22	.22
27.0000	.21	.21	.21	.21	.21
27.2500	.20	.20	.20	.20	.20
27.5000	.20	.19	.19	.19	.19
27.7500	.19	.19	.18	.18	.18
28.0000	.18	.18	.18	.17	.17
28.2500	.17	.17	.17	.17	.17
28.5000	.16	.16	.16	.16	.16
28.7500	.16	.16	.15	.15	.15
29.0000	.15	.15	.15	.15	.15
29.2500	.14	.14	.14	.14	.14
29.5000	.14	.14	.14	.13	.13
29.7500	.13	.13	.13	.13	.13
30.0000	.13	.13	.12	.12	.12
30.2500	.12	.12	.12	.12	.12
30.5000	.12	.11	.11	.11	.11
30.7500	.11	.11	.11	.11	.11
31.0000	.11	.10	.10	.10	.10
31.2500	.10	.10	.10	.10	.10
31.5000	.10	.10	.10	.09	.09
31.7500	.09	.09	.09	.09	.09
32.0000	.09	.09	.09	.09	.09
32.2500	.08	.08	.08	.08	.08
32.5000	.08	.08	.08	.08	.08
32.7500	.08	.08	.08	.08	.08
33.0000	.07	.07	.07	.07	.07
33.2500	.07	.07	.07	.07	.07
33.5000	.07	.07	.07	.07	.07
33.7500	.06	.06	.06	.06	.06
34.0000	.06	.06	.06	.06	.06
34.2500	.06	.06	.06	.06	.06
34.5000	.05	.05	.05	.05	.05
34.7500	.05	.05	.05	.05	.05
35.0000	.05	.05	.05	.05	.05
35.2500	.05	.05	.05	.05	.05
35.5000	.05	.05	.05	.04	.04
35.7500	.04	.04	.04	.04	.04
36.0000					

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
36.2500	.04	.04	.04	.04	.04
36.5000	.04	.04	.04	.04	.04
36.7500	.04	.04	.04	.04	.04
37.0000	.04	.04	.04	.04	.04
37.2500	.04	.04	.03	.03	.03
37.5000	.03	.03	.03	.03	.03
37.7500	.03	.03	.03	.03	.03
38.0000	.03	.03	.03	.03	.03
38.2500	.03	.03	.03	.03	.03
38.5000	.03	.03	.03	.03	.03
38.7500	.03	.03	.03	.03	.03
39.0000	.03	.03	.03	.03	.03
39.2500	.02	.02	.02	.02	.02
39.5000	.02	.02	.02	.02	.02
39.7500	.02	.02	.02	.02	.02
40.0000	.02	.02	.02	.02	.02
40.2500	.02	.02	.02	.02	.02
40.5000	.02	.02	.02	.02	.02
40.7500	.02	.02	.02	.02	.02
41.0000	.02	.02	.02	.02	.02
41.2500	.02	.02	.02	.02	.02
41.5000	.02	.02	.02	.02	.02
41.7500	.02	.02	.02	.02	.02
42.0000	.02	.02	.02	.01	.01
42.2500	.01	.01	.01	.01	.01
42.5000	.01	.01	.01	.01	.01
42.7500	.01	.01	.01	.01	.01
43.0000	.01	.01	.01	.01	.01
43.2500	.01	.01	.01	.01	.01
43.5000	.01	.01	.01	.01	.01
43.7500	.01	.01	.01	.01	.01
44.0000	.01	.01	.01	.01	.01
44.2500	.01	.01	.01	.01	.01
44.5000	.01	.01	.01	.01	.01
44.7500	.01	.01	.01	.01	.01
45.0000	.01	.01	.01	.01	.01
45.2500	.01	.01	.01	.01	.01
45.5000	.01	.01	.01	.01	.01
45.7500	.01	.01	.01	.01	.01
46.0000	.01	.01	.01	.01	.01
46.2500	.01	.01	.01	.01	.01
46.5000	.01	.01	.01	.01	.01
46.7500	.01	.01	.01	.01	.01
47.0000	.01	.01	.01	.01	.01
47.2500	.01	.01	.01	.01	.01
47.5000	.01	.01	.01	.01	.01
47.7500	.01	.01	.01	.01	.01

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
48.0000	.01	.01	.01	.01	.01
48.2500	.01	.01	.01	.00	.00
48.5000	.00	.00	.00	.00	.00
48.7500	.00	.00	.00	.00	.00
49.0000	.00	.00	.00	.00	.00
49.2500	.00	.00	.00	.00	.00
49.5000	.00	.00	.00	.00	.00
49.7500	.00	.00	.00	.00	.00
50.0000	.00	.00	.00	.00	.00
50.2500	.00	.00	.00	.00	.00
50.5000	.00	.00	.00	.00	.00
50.7500	.00	.00	.00	.00	.00
51.0000	.00	.00	.00	.00	.00
51.2500	.00	.00	.00		

Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
186.00	-----	.4400	.0000	.000	.000
187.00	-----	.5000	1.4090	.470	.470
188.00	-----	.5700	1.6039	.535	1.004
189.00	-----	.6700	1.8580	.619	1.624
190.00	-----	.7500	2.1289	.710	2.333
191.00	-----	.8200	2.3542	.785	3.118

POND VOLUME EQUATIONS

* 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

File.... F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\DEVELOPED.PPW

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 186.00 ft
Increment = .25 ft
Max. Elev.= 191.00 ft

****
OUTLET CONNECTIVITY
****

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
Culvert-Circular	CV	--->	TW	186.000	191.000
Weir-Rectangular	WR	--->	TW	188.000	191.000

TW SETUP, DS Channel

OUTLET STRUCTURE INPUT DATA

Structure ID = CV
Structure Type = Culvert-Circular

No. Barrels	=	1	
Barrel Diameter	=	2.0000	ft
Upstream Invert	=	186.00	ft
Dnstream Invert	=	185.50	ft
Horiz. Length	=	65.00	ft
Barrel Length	=	65.00	ft
Barrel Slope	=	.00769	ft/ft

OUTLET CONTROL DATA...

Mannings n	=	.0130	
Ke	=	.5000	(forward entrance loss)
Kb	=	.012411	(per ft of full flow)
Kr	=	.5000	(reverse entrance loss)
HW Convergence	=	.001	+/- ft

INLET CONTROL DATA...

Equation form	=	1	
Inlet Control K	=	.0098	
Inlet Control M	=	2.0000	
Inlet Control c	=	.03980	
Inlet Control Y	=	.6700	
T1 ratio (HW/D)	=	1.156	
T2 ratio (HW/D)	=	1.303	
Slope Factor	=	-.500	

Use unsubmerged inlet control Form 1 equ. below T1 elev.
Use submerged inlet control Form 1 equ. above T2 elev.

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

At T1 Elev =	188.31 ft	--->	Flow =	15.55	cfs
At T2 Elev =	188.61 ft	--->	Flow =	17.77	cfs

OUTLET STRUCTURE INPUT DATA

Structure ID = WR
Structure Type = Weir-Rectangular

# of Openings = 1
Crest Elev. = 188.00 ft
Weir Length = 50.00 ft
Weir Coeff. = 2.800000

Weir TW effects (Use adjustment equation)

Structure ID = TW
Structure Type = TW SETUP, DS Channel

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...
Maximum Iterations= 30
Min. TW tolerance = .01 ft
Max. TW tolerance = .01 ft
Min. HW tolerance = .01 ft
Max. HW tolerance = .01 ft
Min. Q tolerance = .10 cfs
Max. Q tolerance = .10 cfs

Type.... Composite Rating Curve
Name.... OUTFALL

File.... F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\DEVELOPED.PPW

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

WS Elev, Total Q		Notes		
		Converge		
Elev. ft	Q cfs	TW Elev ft	Error +/-ft	Contributing Structures
186.00	.00	Free Outfall		None contributing
186.25	.24	Free Outfall		CV
186.50	.91	Free Outfall		CV
186.75	1.99	Free Outfall		CV
187.00	3.42	Free Outfall		CV
187.25	5.15	Free Outfall		CV
187.50	7.14	Free Outfall		CV
187.75	9.31	Free Outfall		CV
188.00	11.63	Free Outfall		CV +WR
188.25	31.50	Free Outfall		CV +WR
188.50	65.82	Free Outfall		CV +WR
188.75	109.41	Free Outfall		CV +WR
189.00	159.78	Free Outfall		CV +WR
189.25	216.48	Free Outfall		CV +WR
189.50	278.84	Free Outfall		CV +WR
189.75	346.32	Free Outfall		CV +WR
190.00	418.53	Free Outfall		CV +WR
190.25	495.15	Free Outfall		CV +WR
190.50	575.89	Free Outfall		CV +WR
190.75	660.54	Free Outfall		CV +WR
191.00	748.89	Free Outfall		CV +WR

SUMMARY FOR HYDROGRAPH ADDITION
at Node: POND IN

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK3	SITE	FAIRMONT.HYG	SITE	A....2

INFLOWS TO: POND IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	SITE	A....2	1.214	12.0500	17.65

TOTAL FLOW INTO: POND IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	POND IN	A....2	1.214	12.0500	17.65

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = POND IN
HYG Tag = A....2

Peak Discharge =	17.65 cfs
Time to Peak =	12.0500 hrs
HYG Volume =	1.214 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
7.8500	.00	.00	.00	.00	.01
8.1000	.01	.01	.01	.02	.02
8.3500	.02	.02	.03	.03	.03
8.6000	.04	.04	.05	.05	.05
8.8500	.06	.06	.07	.07	.08
9.1000	.08	.09	.09	.10	.10
9.3500	.11	.11	.11	.12	.12
9.6000	.13	.13	.14	.14	.15
9.8500	.16	.17	.17	.18	.19
10.1000	.20	.21	.22	.23	.25
10.3500	.26	.27	.29	.30	.32
10.6000	.33	.35	.37	.39	.41
10.8500	.44	.46	.49	.51	.54
11.1000	.57	.61	.66	.71	.76
11.3500	.82	.88	.95	1.02	1.15
11.6000	1.38	1.87	2.62	3.79	5.32
11.8500	7.54	10.58	14.16	16.94	17.65
12.1000	16.24	13.06	9.86	7.41	5.78
12.3500	4.75	4.00	3.47	3.05	2.71
12.6000	2.42	2.19	2.01	1.88	1.78
12.8500	1.71	1.64	1.58	1.52	1.47
13.1000	1.41	1.37	1.33	1.29	1.25
13.3500	1.22	1.19	1.16	1.13	1.10
13.6000	1.08	1.05	1.02	1.00	.98
13.8500	.95	.93	.91	.89	.87
14.1000	.85	.83	.82	.81	.80
14.3500	.79	.78	.77	.76	.76
14.6000	.75	.74	.74	.73	.72
14.8500	.71	.71	.70	.69	.68
15.1000	.68	.67	.66	.65	.65
15.3500	.64	.63	.63	.62	.61
15.6000	.60	.60	.59	.58	.57
15.8500	.57	.56	.55	.54	.54

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
16.1000	.53	.52	.52	.51	.51
16.3500	.51	.50	.50	.50	.49
16.6000	.49	.49	.49	.48	.48
16.8500	.48	.48	.47	.47	.47
17.1000	.47	.46	.46	.46	.45
17.3500	.45	.45	.45	.44	.44
17.6000	.44	.44	.43	.43	.43
17.8500	.43	.42	.42	.42	.41
18.1000	.41	.41	.41	.40	.40
18.3500	.40	.40	.39	.39	.39
18.6000	.38	.38	.38	.38	.37
18.8500	.37	.37	.37	.36	.36
19.1000	.36	.35	.35	.35	.35
19.3500	.34	.34	.34	.33	.33
19.6000	.33	.33	.32	.32	.32
19.8500	.32	.31	.31	.31	.30
20.1000	.30	.30	.30	.30	.30
20.3500	.29	.29	.29	.29	.29
20.6000	.29	.29	.29	.29	.29
20.8500	.29	.29	.29	.29	.29
21.1000	.29	.29	.29	.29	.28
21.3500	.28	.28	.28	.28	.28
21.6000	.28	.28	.28	.28	.28
21.8500	.28	.28	.28	.28	.28
22.1000	.28	.28	.28	.27	.27
22.3500	.27	.27	.27	.27	.27
22.6000	.27	.27	.27	.27	.27
22.8500	.27	.27	.27	.27	.27
23.1000	.27	.27	.26	.26	.26
23.3500	.26	.26	.26	.26	.26
23.6000	.26	.26	.26	.26	.26
23.8500	.26	.26	.26	.26	.25
24.1000	.21	.16	.10	.06	.04
24.3500	.02	.01	.01	.01	.00
24.6000	.00	.00			

SUMMARY FOR HYDROGRAPH ADDITION
at Node: POND IN

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK3	SITE	FAIRMONT.HYG	SITE	A....5

INFLOWS TO: POND IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	SITE	A....5	1.737	12.0500	25.09

TOTAL FLOW INTO: POND IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	POND IN	A....5	1.737	12.0500	25.09

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = POND IN
HYG Tag = A....5

Peak Discharge =	25.09 cfs
Time to Peak =	12.0500 hrs
HYG Volume =	1.737 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6500	.00	.00	.00	.01	.01
6.9000	.01	.01	.02	.02	.02
7.1500	.02	.03	.03	.03	.04
7.4000	.04	.04	.05	.05	.05
7.6500	.06	.06	.06	.07	.07
7.9000	.07	.08	.08	.08	.09
8.1500	.09	.09	.10	.10	.11
8.4000	.12	.12	.13	.13	.14
8.6500	.15	.15	.16	.17	.18
8.9000	.18	.19	.20	.21	.22
9.1500	.23	.23	.24	.24	.25
9.4000	.26	.26	.27	.27	.28
9.6500	.29	.29	.30	.32	.33
9.9000	.34	.35	.37	.38	.40
10.1500	.41	.43	.45	.47	.49
10.4000	.51	.54	.56	.58	.61
10.6500	.63	.67	.70	.73	.77
10.9000	.81	.85	.89	.94	.98
11.1500	1.04	1.11	1.19	1.27	1.36
11.4000	1.46	1.56	1.67	1.86	2.22
11.6500	2.97	4.12	5.88	8.13	11.32
11.9000	15.63	20.58	24.32	25.09	22.92
12.1500	18.35	13.80	10.33	8.03	6.58
12.4000	5.53	4.78	4.19	3.71	3.32
12.6500	3.00	2.75	2.57	2.43	2.33
12.9000	2.24	2.15	2.07	2.00	1.92
13.1500	1.86	1.80	1.75	1.70	1.66
13.4000	1.62	1.58	1.54	1.50	1.46
13.6500	1.42	1.39	1.35	1.32	1.29
13.9000	1.26	1.23	1.21	1.18	1.15
14.1500	1.13	1.11	1.09	1.08	1.07
14.4000	1.05	1.04	1.03	1.02	1.01
14.6500	1.00	.99	.98	.97	.96

Type.... Node: Pond Inflow Summary
Name.... POND IN
Event: 5 yr
File.... F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\DEVELOPED.PPW
Storm... TypeII 24hr Tag: A....5

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
14.9000	.95	.94	.93	.92	.91
15.1500	.90	.89	.88	.87	.86
15.4000	.85	.84	.83	.82	.81
15.6500	.80	.79	.78	.77	.76
15.9000	.75	.74	.73	.72	.71
16.1500	.70	.69	.69	.68	.68
16.4000	.68	.67	.67	.66	.66
16.6500	.66	.65	.65	.65	.64
16.9000	.64	.64	.63	.63	.62
17.1500	.62	.62	.61	.61	.61
17.4000	.60	.60	.60	.59	.59
17.6500	.58	.58	.58	.57	.57
17.9000	.57	.56	.56	.56	.55
18.1500	.55	.54	.54	.54	.53
18.4000	.53	.53	.52	.52	.51
18.6500	.51	.51	.50	.50	.50
18.9000	.49	.49	.49	.48	.48
19.1500	.47	.47	.47	.46	.46
19.4000	.46	.45	.45	.44	.44
19.6500	.44	.43	.43	.43	.42
19.9000	.42	.41	.41	.41	.40
20.1500	.40	.40	.40	.40	.39
20.4000	.39	.39	.39	.39	.39
20.6500	.39	.39	.39	.39	.39
20.9000	.39	.39	.38	.38	.38
21.1500	.38	.38	.38	.38	.38
21.4000	.38	.38	.38	.38	.38
21.6500	.37	.37	.37	.37	.37
21.9000	.37	.37	.37	.37	.37
22.1500	.37	.37	.37	.37	.36
22.4000	.36	.36	.36	.36	.36
22.6500	.36	.36	.36	.36	.36
22.9000	.36	.36	.36	.35	.35
23.1500	.35	.35	.35	.35	.35
23.4000	.35	.35	.35	.35	.35
23.6500	.35	.35	.34	.34	.34
23.9000	.34	.34	.34	.33	.29
24.1500	.21	.14	.09	.05	.03
24.4000	.02	.01	.01	.00	.00
24.6500	.00	.00			

SUMMARY FOR HYDROGRAPH ADDITION
at Node: POND IN

HYG Directory: F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LINK3	SITE	FAIRMONT.HYG	SITE	A..100

INFLOWS TO: POND IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	SITE	A..100	3.545	12.0500	49.81

TOTAL FLOW INTO: POND IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
FAIRMONT.HYG	POND IN	A..100	3.545	12.0500	49.81

Type.... Node: Pond Inflow Summary
Name.... POND IN
File.... F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\DEVELOPED.PPW
Storm... TypeII 24hr Tag: A..100

Event: 100 yr

TOTAL NODE INFLOW...
HYG file = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\FAIRMONT.HYG
HYG ID = POND IN
HYG Tag = A..100

Peak Discharge =	49.81 cfs
Time to Peak =	12.0500 hrs
HYG Volume =	3.545 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
4.4500	.00	.00	.00	.01	.01
4.7000	.01	.02	.02	.03	.03
4.9500	.04	.04	.05	.05	.06
5.2000	.06	.07	.08	.08	.09
5.4500	.09	.10	.10	.11	.11
5.7000	.12	.13	.13	.14	.14
5.9500	.15	.16	.16	.17	.18
6.2000	.18	.19	.19	.20	.21
6.4500	.21	.22	.23	.23	.24
6.7000	.25	.25	.26	.27	.27
6.9500	.28	.29	.29	.30	.31
7.2000	.32	.32	.33	.34	.34
7.4500	.35	.36	.36	.37	.38
7.7000	.39	.39	.40	.41	.42
7.9500	.42	.43	.44	.45	.46
8.2000	.47	.48	.50	.51	.53
8.4500	.55	.56	.58	.60	.62
8.7000	.64	.66	.67	.69	.71
8.9500	.74	.76	.78	.80	.81
9.2000	.83	.84	.85	.86	.87
9.4500	.88	.89	.90	.91	.93
9.7000	.95	.97	1.00	1.03	1.06
9.9500	1.09	1.12	1.16	1.19	1.23
10.2000	1.27	1.32	1.37	1.42	1.47
10.4500	1.52	1.57	1.63	1.68	1.75
10.7000	1.82	1.89	1.97	2.06	2.14
10.9500	2.23	2.33	2.42	2.53	2.66
11.2000	2.81	2.98	3.17	3.37	3.58
11.4500	3.80	4.02	4.44	5.26	6.92
11.7000	9.46	13.24	17.95	24.41	32.85
11.9500	42.25	49.00	49.81	44.99	35.76
12.2000	26.74	19.93	15.40	12.55	10.49
12.4500	9.03	7.89	6.97	6.21	5.60

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
12.7000	5.13	4.79	4.53	4.33	4.16
12.9500	4.00	3.85	3.70	3.57	3.45
13.2000	3.34	3.24	3.15	3.07	2.99
13.4500	2.91	2.84	2.76	2.69	2.62
13.7000	2.56	2.50	2.44	2.38	2.33
13.9500	2.27	2.22	2.17	2.12	2.07
14.2000	2.04	2.01	1.98	1.96	1.94
14.4500	1.91	1.90	1.88	1.86	1.84
14.7000	1.82	1.80	1.78	1.76	1.75
14.9500	1.73	1.71	1.69	1.67	1.65
15.2000	1.63	1.61	1.60	1.58	1.56
15.4500	1.54	1.52	1.50	1.48	1.46
15.7000	1.44	1.43	1.41	1.39	1.37
15.9500	1.35	1.33	1.31	1.30	1.28
16.2000	1.27	1.26	1.25	1.24	1.23
16.4500	1.22	1.22	1.21	1.20	1.20
16.7000	1.19	1.18	1.18	1.17	1.16
16.9500	1.16	1.15	1.14	1.14	1.13
17.2000	1.12	1.12	1.11	1.10	1.10
17.4500	1.09	1.08	1.08	1.07	1.06
17.7000	1.05	1.05	1.04	1.03	1.03
17.9500	1.02	1.01	1.01	1.00	.99
18.2000	.99	.98	.97	.97	.96
18.4500	.95	.95	.94	.93	.93
18.7000	.92	.91	.91	.90	.89
18.9500	.89	.88	.87	.87	.86
19.2000	.85	.84	.84	.83	.82
19.4500	.82	.81	.80	.80	.79
19.7000	.78	.78	.77	.76	.76
19.9500	.75	.74	.74	.73	.72
20.2000	.72	.72	.71	.71	.71
20.4500	.71	.71	.71	.70	.70
20.7000	.70	.70	.70	.70	.70
20.9500	.70	.69	.69	.69	.69
21.2000	.69	.69	.69	.68	.68
21.4500	.68	.68	.68	.68	.68
21.7000	.68	.67	.67	.67	.67
21.9500	.67	.67	.67	.66	.66
22.2000	.66	.66	.66	.66	.66
22.4500	.66	.65	.65	.65	.65
22.7000	.65	.65	.65	.64	.64
22.9500	.64	.64	.64	.64	.64
23.2000	.64	.63	.63	.63	.63
23.4500	.63	.63	.63	.62	.62
23.7000	.62	.62	.62	.62	.62
23.9500	.61	.61	.59	.51	.38
24.2000	.25	.15	.09	.06	.03

Type.... Node: Pond Inflow Summary
Name.... POND IN
Event: 100 yr
File.... F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\DEVELOPED.PPW
Storm... TypeII 24hr Tag: A..100

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0500 hrs
Time on left represents time for first value in each row.

Time hrs					
24.4500	.02	.01	.01	.00	.00
24.7000	.00	.00			

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
Inflow HYG file = FAIRMONT.HYG - POND IN A....2
Outflow HYG file = FAIRMONT.HYG - POND OUT A....2

Pond Node Data = POND
Pond Volume Data = pond
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	186.00 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	.0500 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	17.65 cfs	at	12.0500 hrs
Peak Outflow	=	4.16 cfs	at	12.4000 hrs
Peak Elevation	=	187.11 ft		
Peak Storage	=	.524 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.000
+ HYG Vol IN	=	1.214
- Infiltration	=	.000
- HYG Vol OUT	=	1.213
- Retained Vol	=	.001
Unrouted Vol	=	-.000 ac-ft (.002% of Inflow Volume)

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
Inflow HYG file = FAIRMONT.HYG - POND IN A....5
Outflow HYG file = FAIRMONT.HYG - POND OUT A....5

Pond Node Data = POND
Pond Volume Data = pond
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	186.00 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	.0500 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	25.09 cfs	at	12.0500 hrs
Peak Outflow	=	7.19 cfs	at	12.3500 hrs
Peak Elevation	=	187.51 ft		
Peak Storage	=	.731 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.000
+ HYG Vol IN	=	1.737
- Infiltration	=	.000
- HYG Vol OUT	=	1.735
- Retained Vol	=	.001
Unrouted Vol	=	-.000 ac-ft (.001% of Inflow Volume)

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\HYDRO\PROJECTS\THE FAIRMONT3RD\PONDPACK\
Inflow HYG file = FAIRMONT.HYG - POND IN A..100
Outflow HYG file = FAIRMONT.HYG - POND OUT A..100

Pond Node Data = POND
Pond Volume Data = pond
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	186.00 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	.0500 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	49.81 cfs	at	12.0500 hrs
Peak Outflow	=	36.72 cfs	at	12.1500 hrs
Peak Elevation	=	188.29 ft		
Peak Storage	=	1.173 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.000
+ HYG Vol IN	=	3.545
- Infiltration	=	.000
- HYG Vol OUT	=	3.544
- Retained Vol	=	.001
Unrouted Vol	=	-.000 ac-ft (.001% of Inflow Volume)

Index of Starting Page Numbers for ID Names