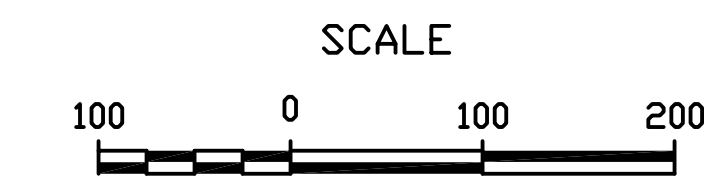
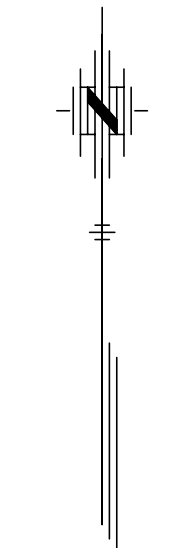


DRAINAGE PLAN FOR NORTHWEST METHODIST ADDITION WICHITA, SEDGWICK COUNTY, KANSAS



LEGEND

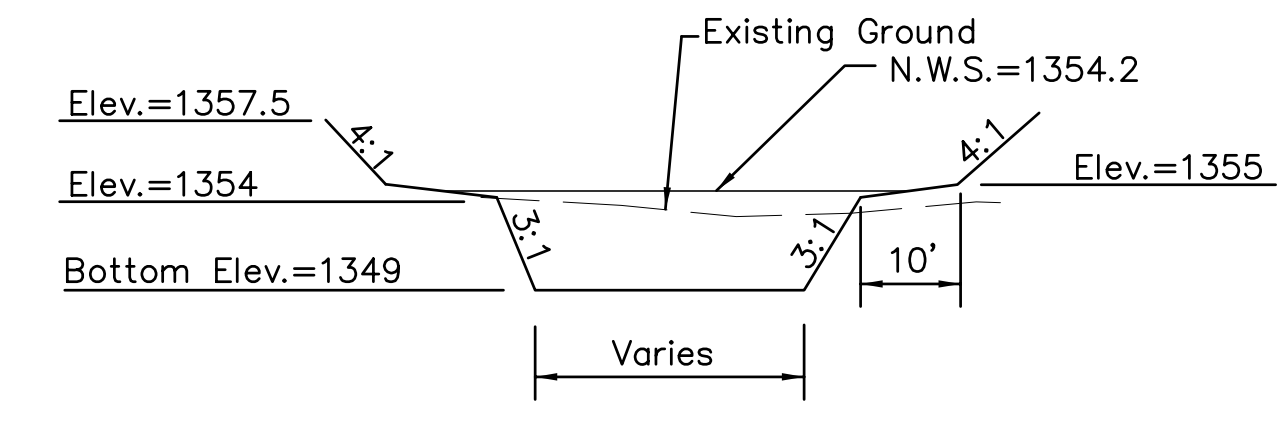
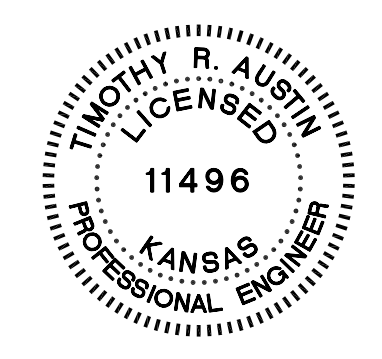
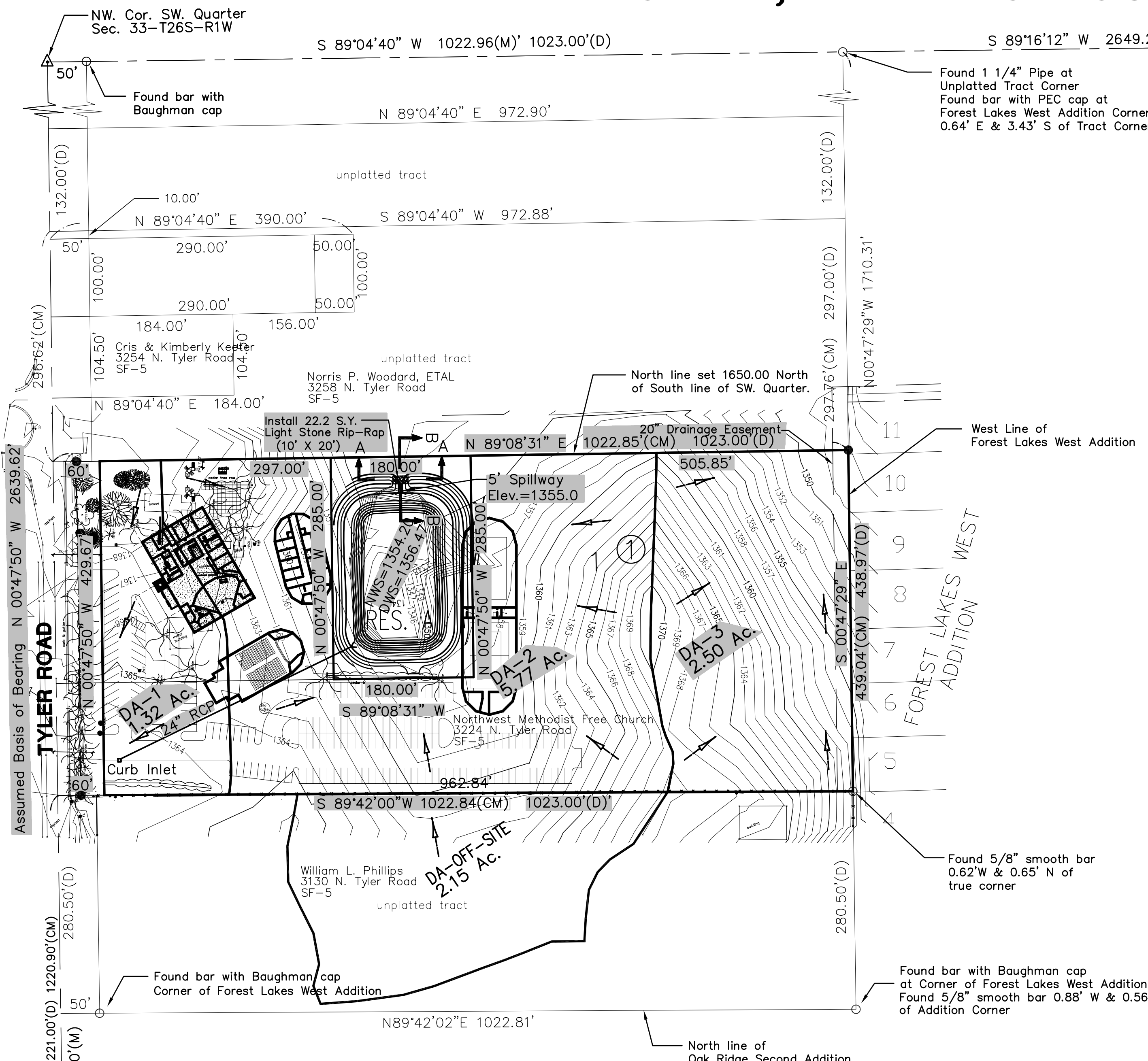
- = 1/2" Iron Pipe (found)
- ✕ = 1/2" Rebar (found)
- = PK Nail (found)
- ⊕ = "+" Cut (found)
- ▲ = Section Corner
- (M) = Measured
- (P) = Platted
- R.O.W. = Right-of-Way

Area #	Area	Undeveloped				Developed			
		$\frac{1}{5}$	$\frac{1}{100}$	Q_5	Q_{100}	CN	CN	Q_5	Q_{100}
1	1.32	4.62	7.40	2.02	5.58	72.0	91.1	3.12	6.46
2	5.77	4.62	7.40	8.80	24.35	72.0	73.4	13.60	28.20
3	2.50	4.62	7.40	3.81	10.55	72.0	72.0	*	*
Offsite	2.15	4.62	7.40	3.28	9.06	72.0	72.0	*	*

* Undeveloped

Elevation	Acres	Storage Acre-Ft.	Total Storage Acre-Ft.	Q_5	Q_{100}
1357	0.78	0.41	1.91		
1356.46	0.74	0.13	1.50		38.15
1356.28	0.73	0.20	1.36	12.67	28.74
1356	0.71	0.68	1.16	6.81	16.32
1355	0.65	0.48	0.48	0.64	0.64
1354.20	0.54	0.00	0.00	0.00	0.00

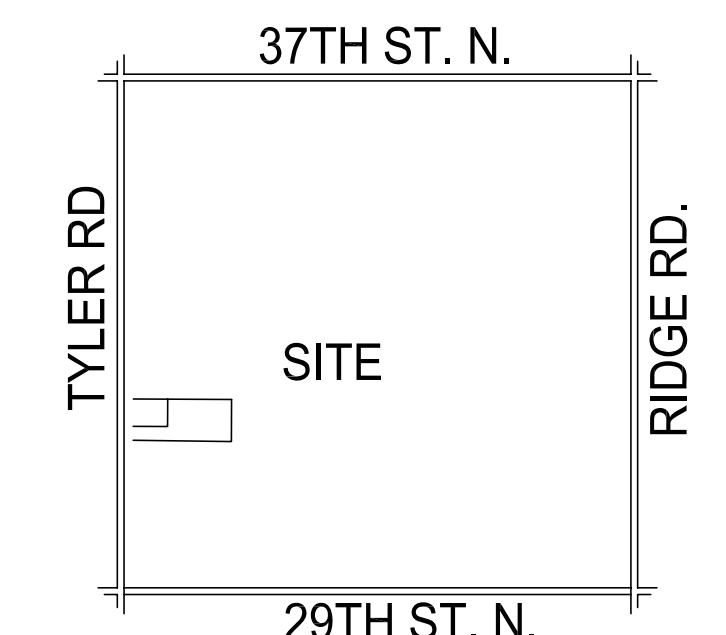
Elevation	Acres	Storage Acre-Ft.	Total Storage Acre-Ft.	Q_5	Q_{100}
1357	1.24	1.12	2.54		
1356	1.00	0.90	1.42		
1355	0.81	0.23	0.52		
1354.68	0.66	0.15	0.28		38.18
1354.44	0.59	0.13	0.13	13.43	13.43
1354.20	0.52	0.00	0.00	0.00	0.00



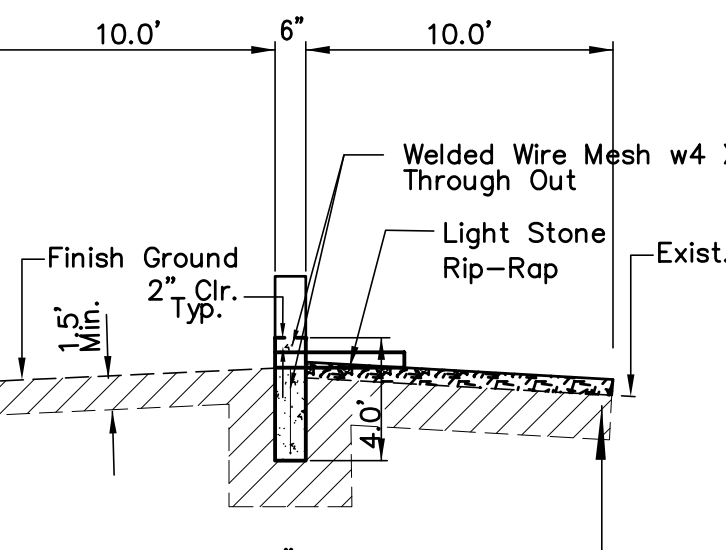
LEGAL DESCRIPTION

A tract of land in the Southwest Quarter of Section 33, T26S, R1W of the 6th P.M., Sedgwick County, Kansas, being more particularly described as: Going Northerly on the West line of Section 33, T26S, R1W, a distance of 1221.00 feet North from the Southwest corner of said section for a point of beginning, thence turning right deflecting 90°29' 21" and going Easterly a distance of 1023.00 feet, thence turning left deflecting 90°29'21" and going Northerly a distance of 438.97 feet, thence turning left deflecting 90°04' and going Westerly on a line 1650 feet North of and parallel with the South line of the Section, a distance of 666.00 feet, thence turning left deflecting 89°56' and going Southerly a distance of 288.38 feet, thence turning right deflecting 90°29'21" and going Westerly a distance of 357.00 feet to the West line of the Section, thence turning right (left) and going South 144.10 feet to the point of beginning enclosing 7.84 acres more or less.

AND:
Beginning at a point on the West line of Section Thirty-three (33), Township Twenty-six (26) South, Range One (1) West, a distance of 1365.00 feet North of the Southwest Corner of said Section Thirty-three (33), thence going Northerly on the same line a distance of 284.90 feet, thence turning right deflecting 89°56' and going Easterly on a line 1650.10 feet North of and parallel with the South line of said Section Thirty-three (33), a distance of 357.00 feet, thence turning right deflecting 90°04' and going Southerly a distance of 288.38 feet, thence turning right deflecting 29°29'20" and thence going Westerly a distance of 357.00 feet to the point of beginning, enclosing an area of 2.35 acres, more or less.



LOCATION MAP
No Scale

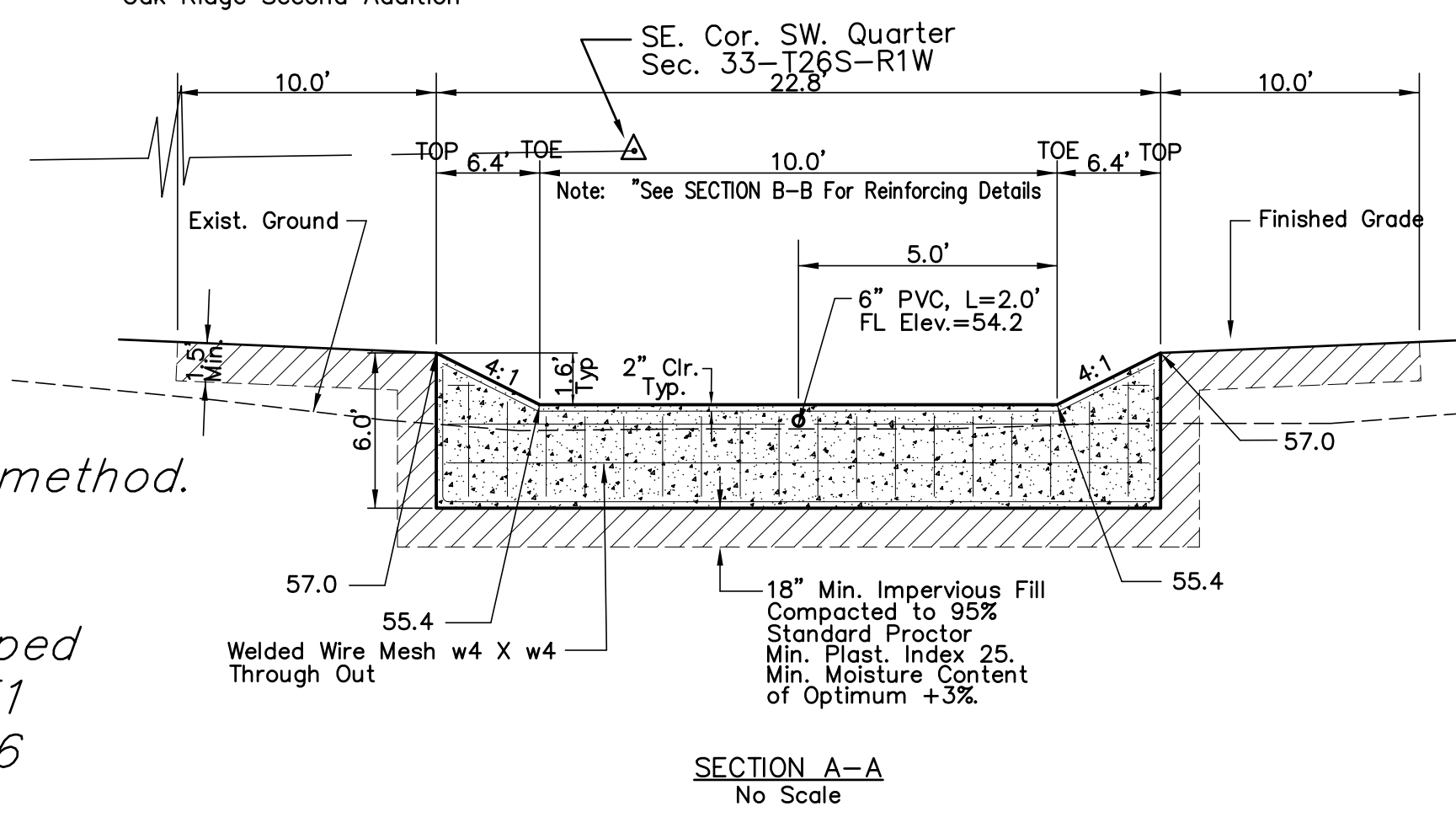


SECTION B-B
No Scale

NOTES:

- Determination of Q 's was made using the rational method.
- c 's used were as follows:

	Undeveloped	Developed
5yr frequency	0.33	0.51
100 yr frequency	0.57	0.66



SECTION A-A
No Scale

No. Date By Approved Revision

NORTHWEST METHODIST ADDITION
DRAINAGE PLAN
CITY OF WICHITA, KANSAS
JIM ARMOUR P.E. - CITY ENGINEER

POE & ASSOCIATES, INC.
CONSULTING ENGINEERS
5940 E. Central, Suite 200 • Wichita, KS 67206-4442
Phone: 316/685-4111 • FAX: 316/685-4444

PRELIM

Designed By: T. Austin
 Drawn By: S. Schmidt
 8/74/Drainage.dwg
 Date: 07/05/06
 Sheet

Table of Contents

5 - Year

Summary Report	1
Hydrograph Reports	2
Hydrograph No. 1, Rational, DA1-R5	2
Hydrograph No. 2, Rational, DA2-R5	3
Hydrograph No. 3, Rational, DAOFFSITE-R5	4
Hydrograph No. 4, Rational, DA3-R5	5
Hydrograph No. 5, Combine, ADD DA2 & DAOFFSITE	6
Hydrograph No. 6, Combine, ADD DA1, DA2, & DAOFFSITE	7
Hydrograph No. 7, Reservoir, THROUGH POND	8
Pond Report	9
Hydrograph No. 8, Combine, COMBINE OUTFALL TO DA3	10
Hydrograph No. 9, Reservoir, OFFSITE TO EAST	11
Pond Report	12

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description	
1	Rational	2.036	1	75	9,160	----	-----	-----	DA1-R5	
2	Rational	8.884	1	75	39,978	----	-----	-----	DA2-R5	
3	Rational	3.307	1	75	14,879	----	-----	-----	DAOFFSITE-R5	
4	Rational	3.848	1	75	17,317	----	-----	-----	DA3-R5	
5	Combine	12.19	1	75	54,858	2, 3,	-----	-----	ADD DA2 & DAOFFSITE	
6	Combine	14.23	1	75	64,018	1, 5	-----	-----	ADD DA1, DA2, & DAOFFSITE	
7	Reservoir	13.41	1	79	64,017	6	1354.44	6,825	THROUGH POND	
8	Combine	17.08	1	78	81,334	4, 7	-----	-----	COMBINE OUTFALL TO DA3	
9	Reservoir	17.08	1	78	81,334	8	1349.70	1	OFFSITE TO EAST	
Exist Drainage 5YEAR-REV.gpw					Return Period: 5 Year			Thursday, Dec 14 2006		

Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

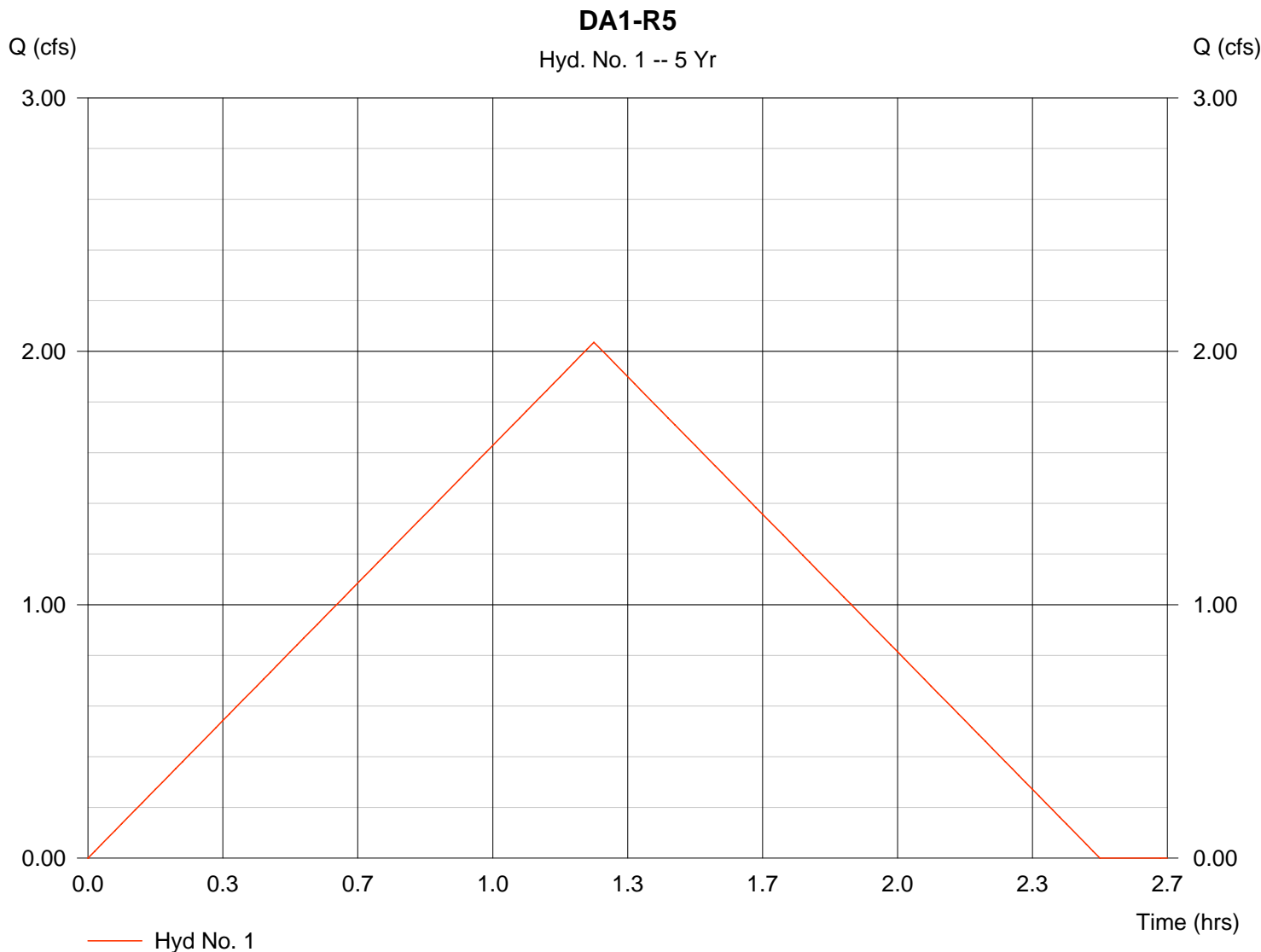
Hyd. No. 1

DA1-R5

Hydrograph type = Rational
Storm frequency = 5 yrs
Drainage area = 1.323 ac
Intensity = 4.663 in/hr
IDF Curve = SedgwickCo.IDF

Peak discharge = 2.036 cfs
Time interval = 1 min
Runoff coeff. = 0.33
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 9,160 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

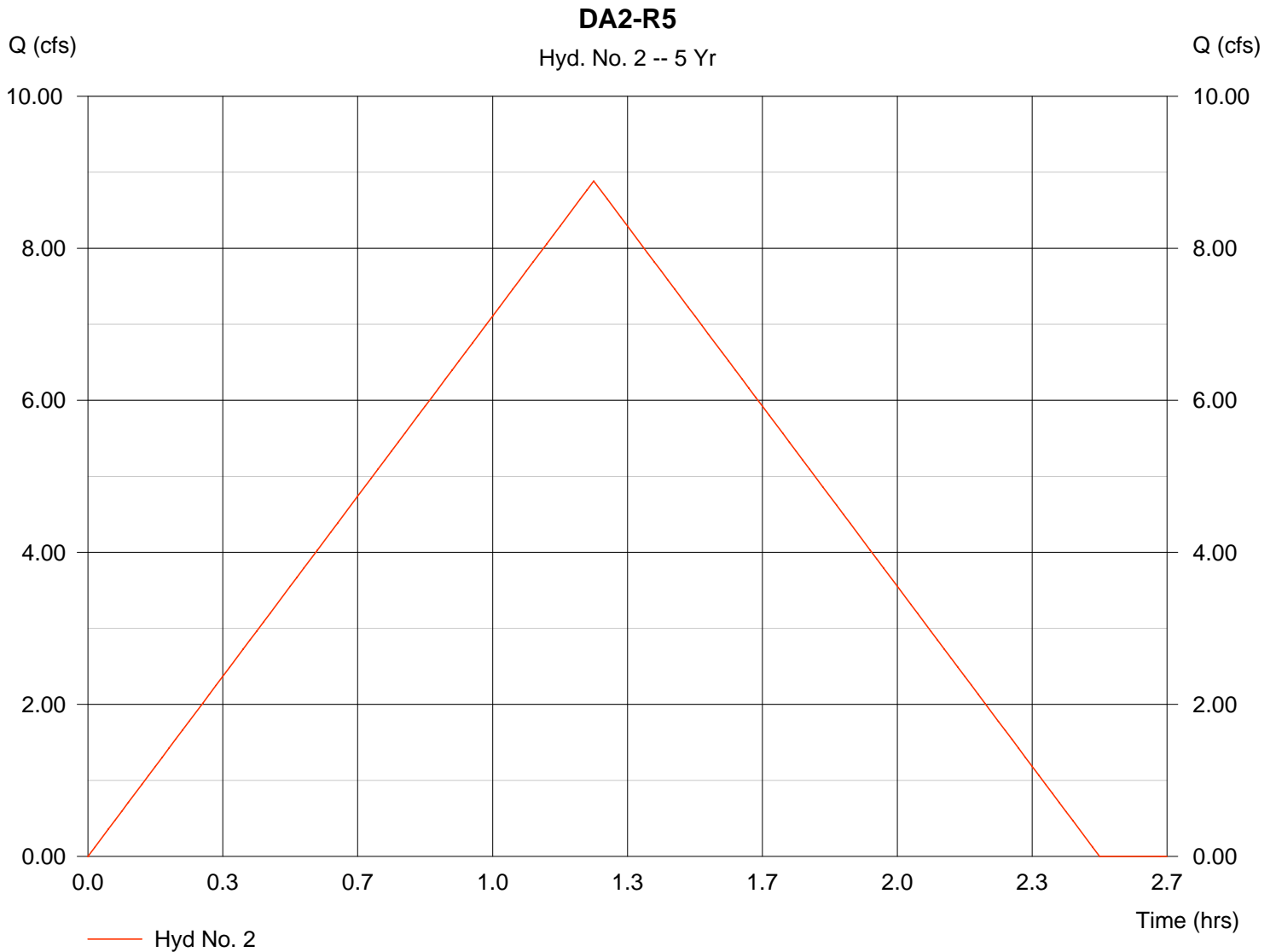
Hyd. No. 2

DA2-R5

Hydrograph type = Rational
 Storm frequency = 5 yrs
 Drainage area = 5.774 ac
 Intensity = 4.663 in/hr
 IDF Curve = SedgwickCo.IDF

Peak discharge = 8.884 cfs
 Time interval = 1 min
 Runoff coeff. = 0.33
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 39,978 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

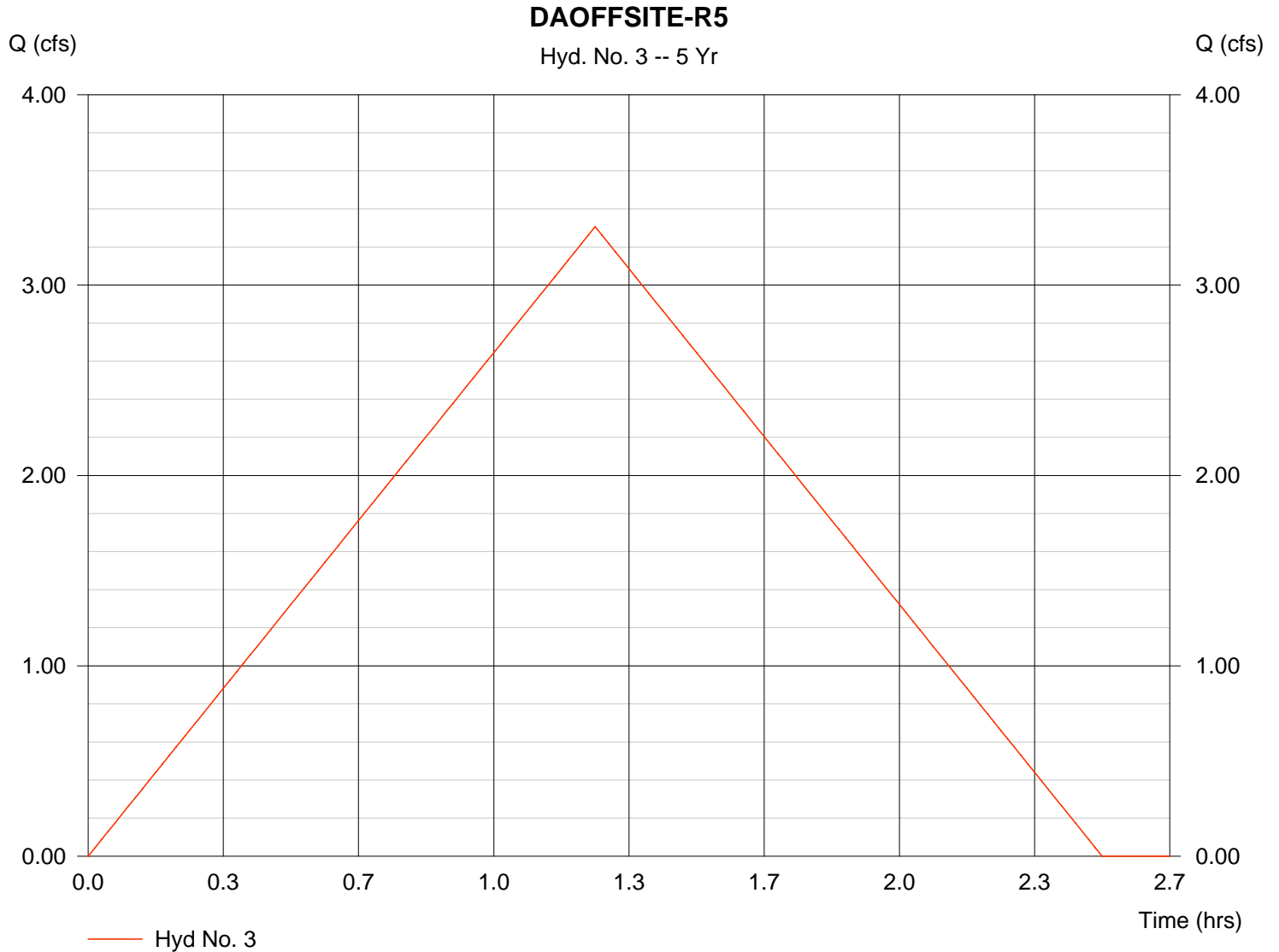
Hyd. No. 3

DAOFFSITE-R5

Hydrograph type = Rational
Storm frequency = 5 yrs
Drainage area = 2.149 ac
Intensity = 4.663 in/hr
IDF Curve = SedgwickCo.IDF

Peak discharge = 3.307 cfs
Time interval = 1 min
Runoff coeff. = 0.33
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 14,879 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

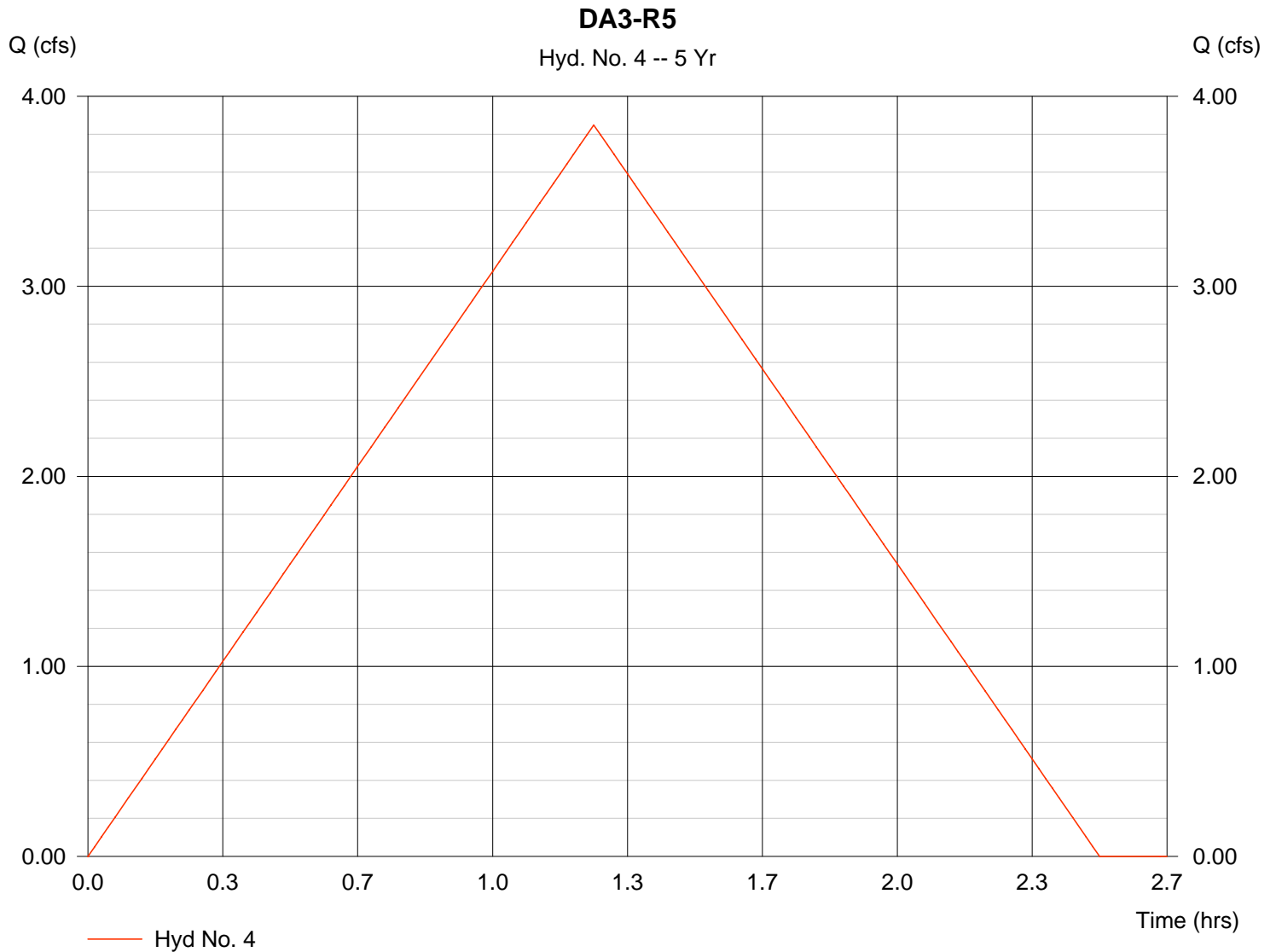
Hyd. No. 4

DA3-R5

Hydrograph type = Rational
 Storm frequency = 5 yrs
 Drainage area = 2.501 ac
 Intensity = 4.663 in/hr
 IDF Curve = SedgwickCo.IDF

Peak discharge = 3.848 cfs
 Time interval = 1 min
 Runoff coeff. = 0.33
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 17,317 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

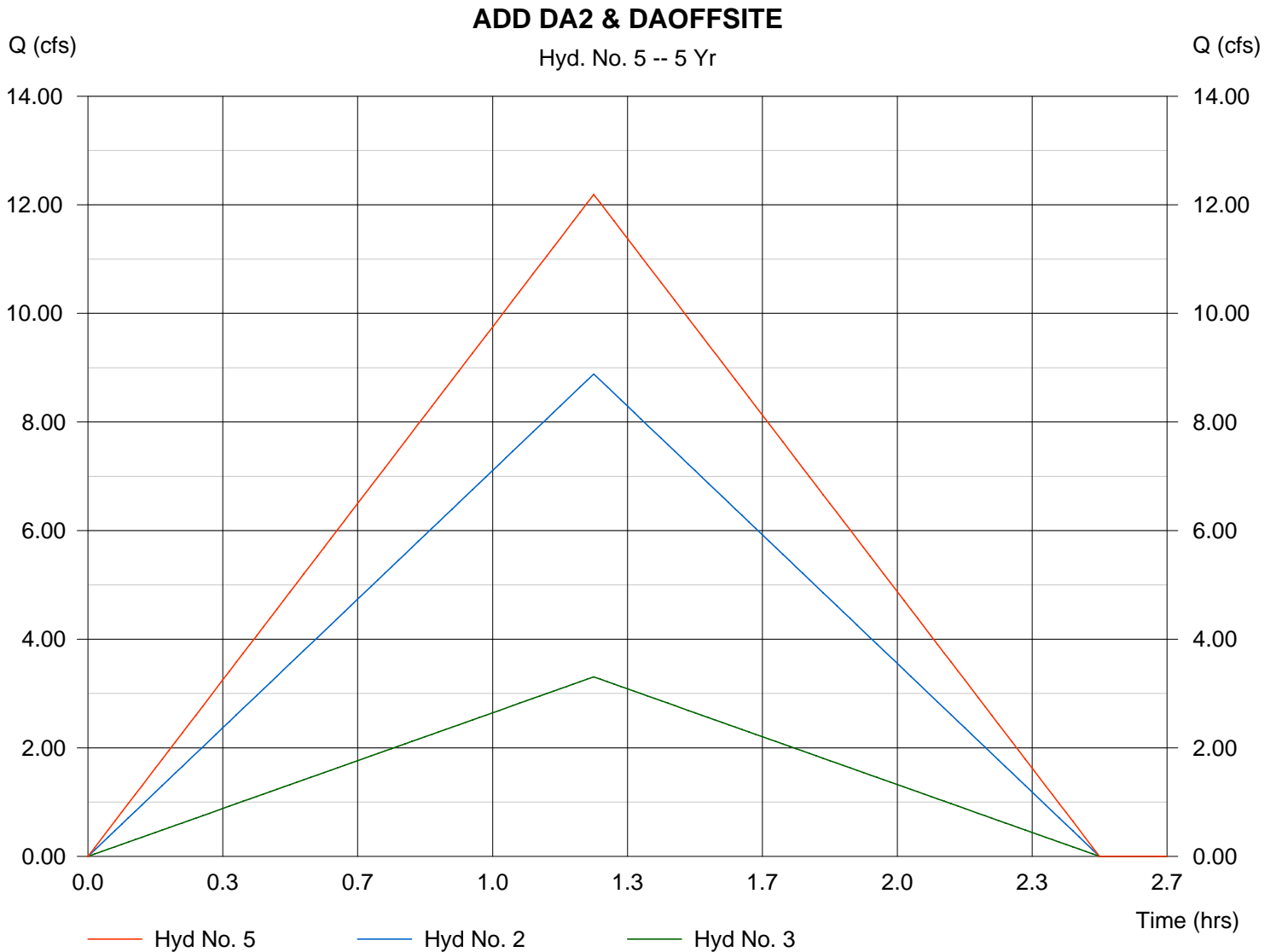
Hyd. No. 5

ADD DA2 & DAOFFSITE

Hydrograph type = Combine
Storm frequency = 5 yrs
Inflow hyds. = 2, 3

Peak discharge = 12.19 cfs
Time interval = 1 min

Hydrograph Volume = 54,858 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

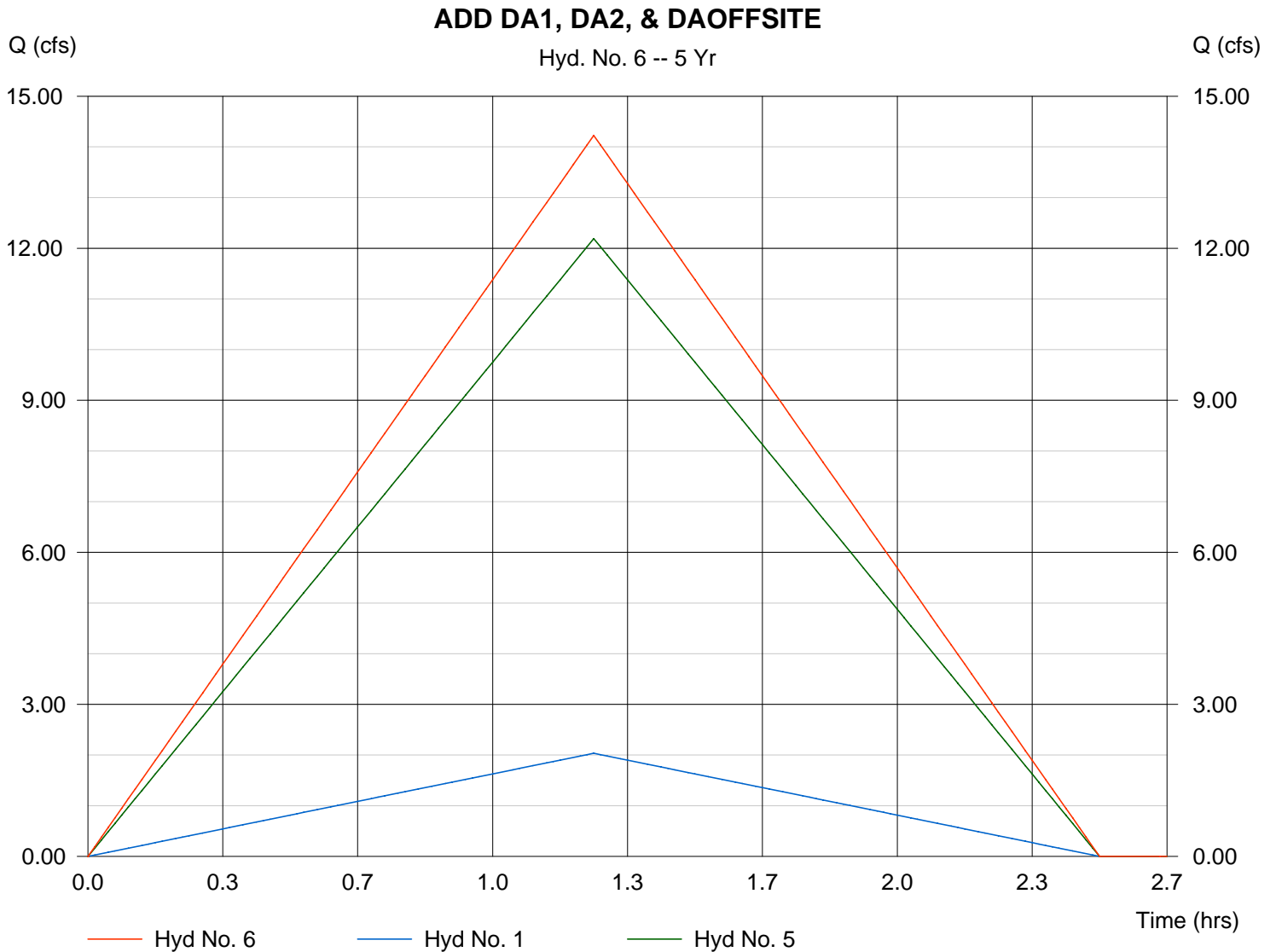
Hyd. No. 6

ADD DA1, DA2, & DAOFFSITE

Hydrograph type = Combine
Storm frequency = 5 yrs
Inflow hyds. = 1, 5

Peak discharge = 14.23 cfs
Time interval = 1 min

Hydrograph Volume = 64,018 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

Hyd. No. 7

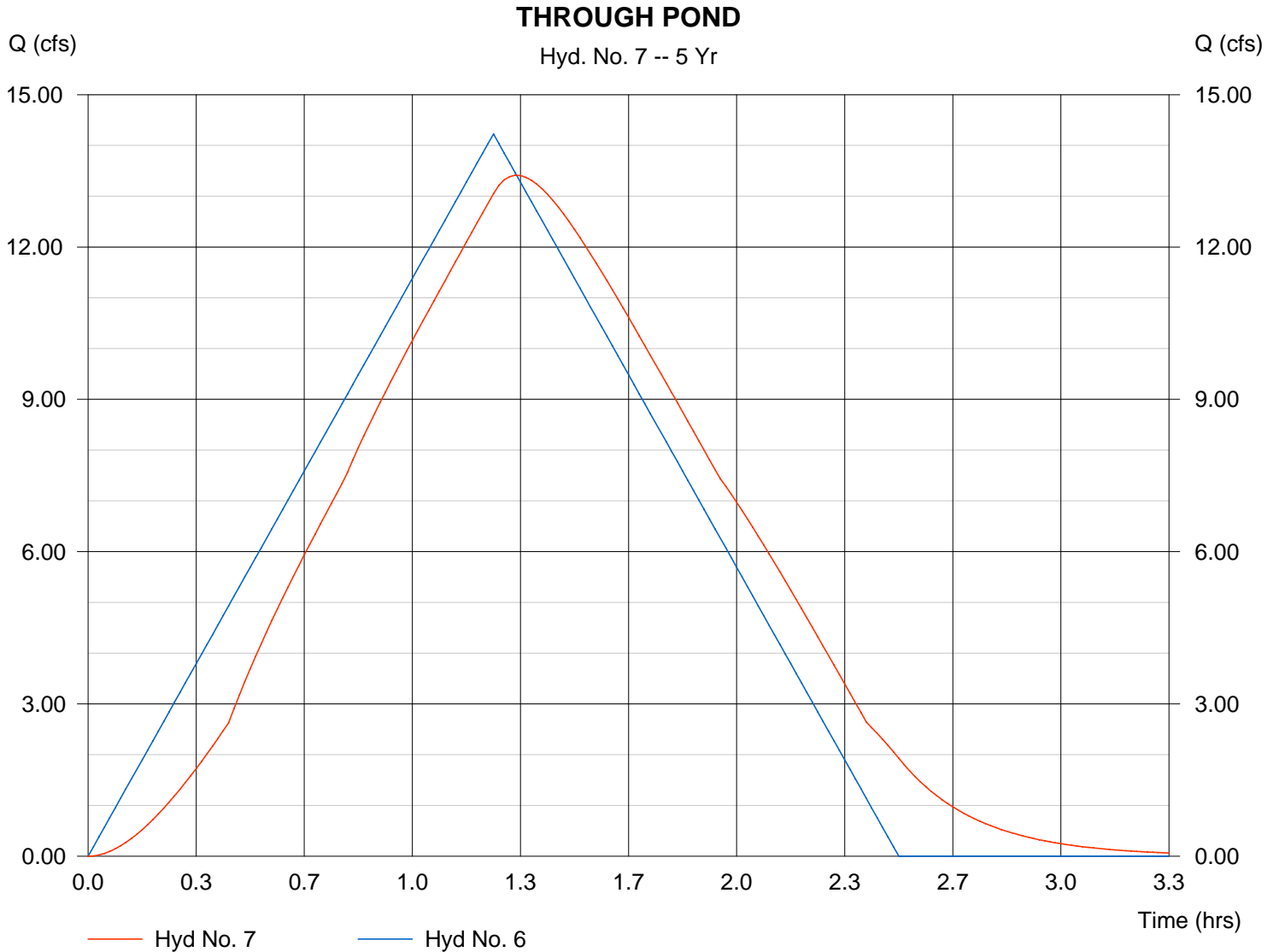
THROUGH POND

Hydrograph type = Reservoir
Storm frequency = 5 yrs
Inflow hyd. No. = 6
Reservoir name = EXISTING POND

Peak discharge = 13.41 cfs
Time interval = 1 min
Max. Elevation = 1354.44 ft
Max. Storage = 6,825 cuft

Storage Indication method used.

Hydrograph Volume = 64,017 cuft



Pond No. 1 - EXISTING POND

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1354.20	22,662	0	0
0.80	1355.00	35,073	23,094	23,094
1.80	1356.00	43,541	39,307	62,401
2.80	1357.00	54,091	48,816	111,217

Culvert / Orifice Structures

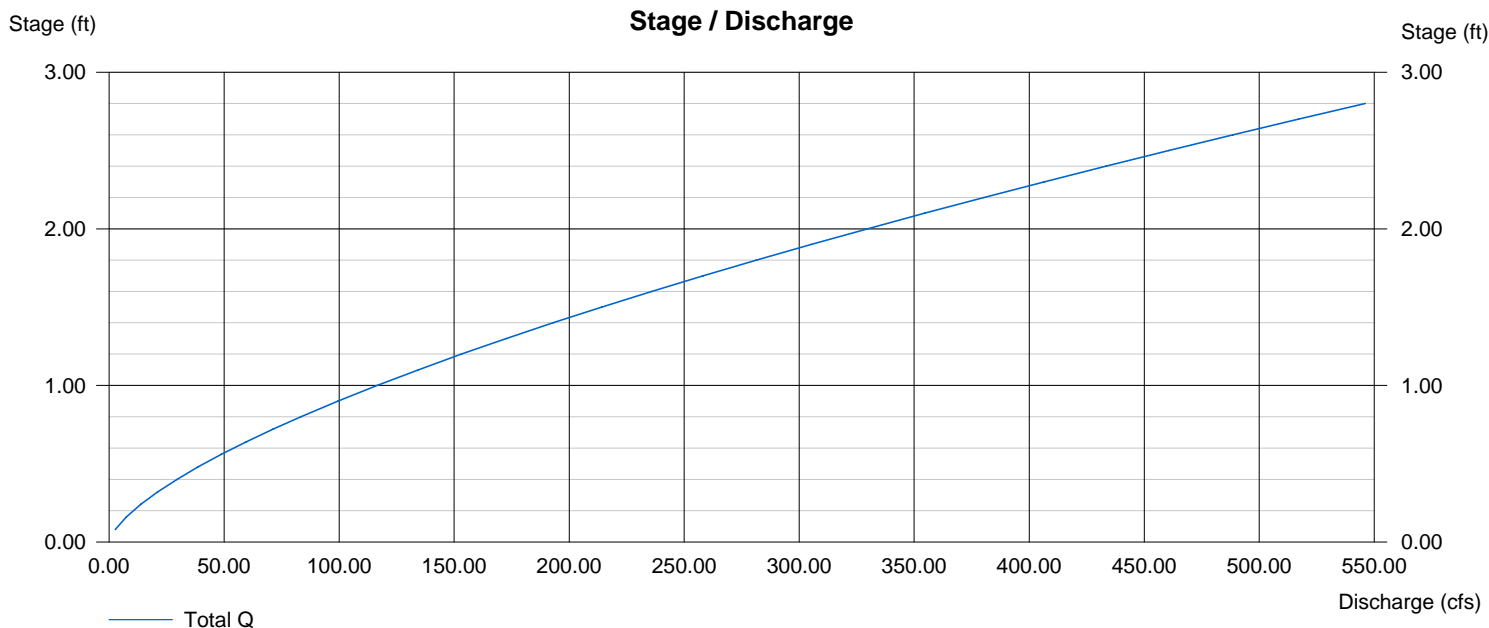
	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 35.00	0.00	0.00	0.00
Crest El. (ft)	= 1354.20	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Cipiti	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

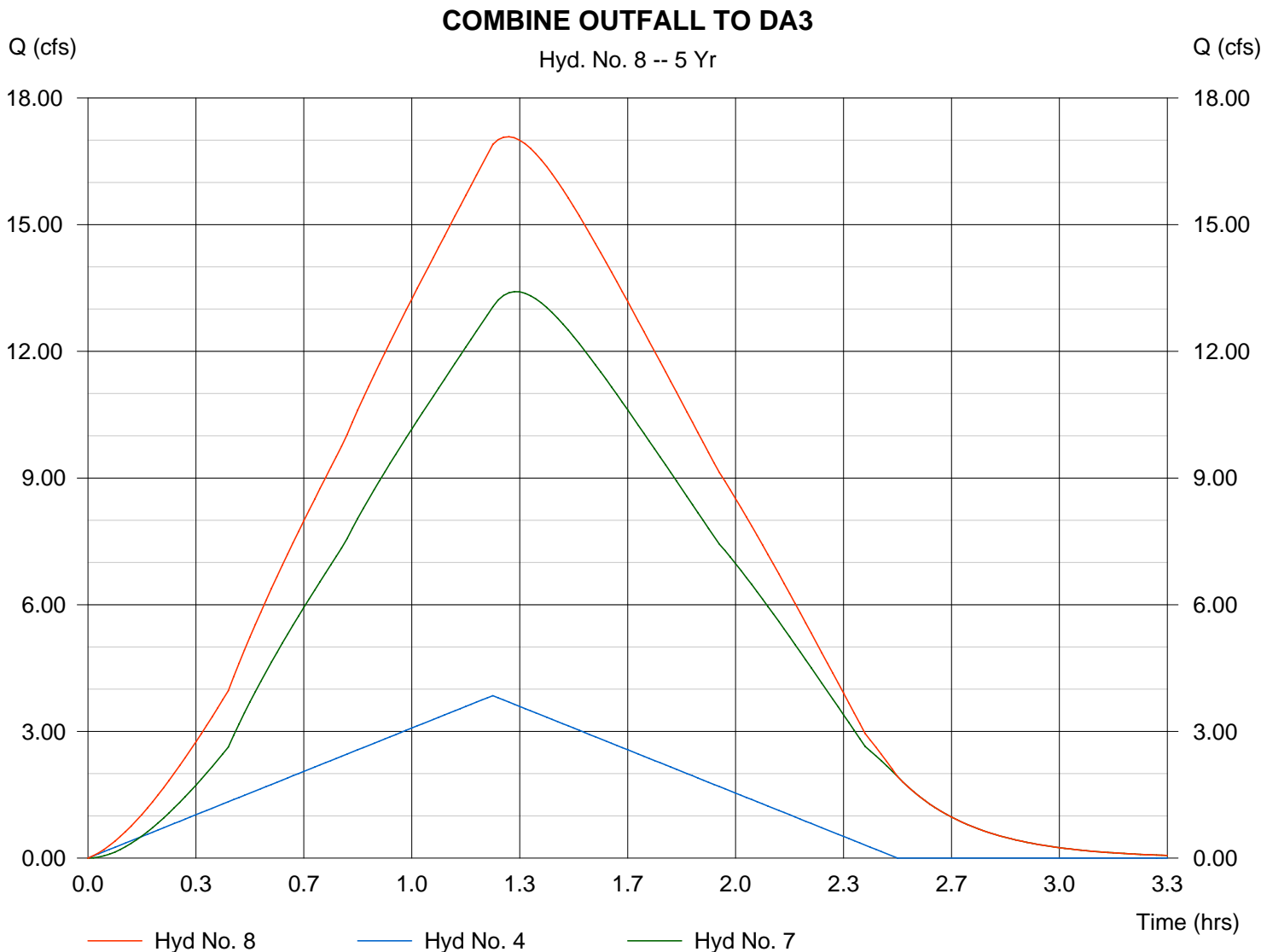
Hyd. No. 8

COMBINE OUTFALL TO DA3

Hydrograph type = Combine
Storm frequency = 5 yrs
Inflow hyds. = 4, 7

Peak discharge = 17.08 cfs
Time interval = 1 min

Hydrograph Volume = 81,334 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:41 AM

Hyd. No. 9

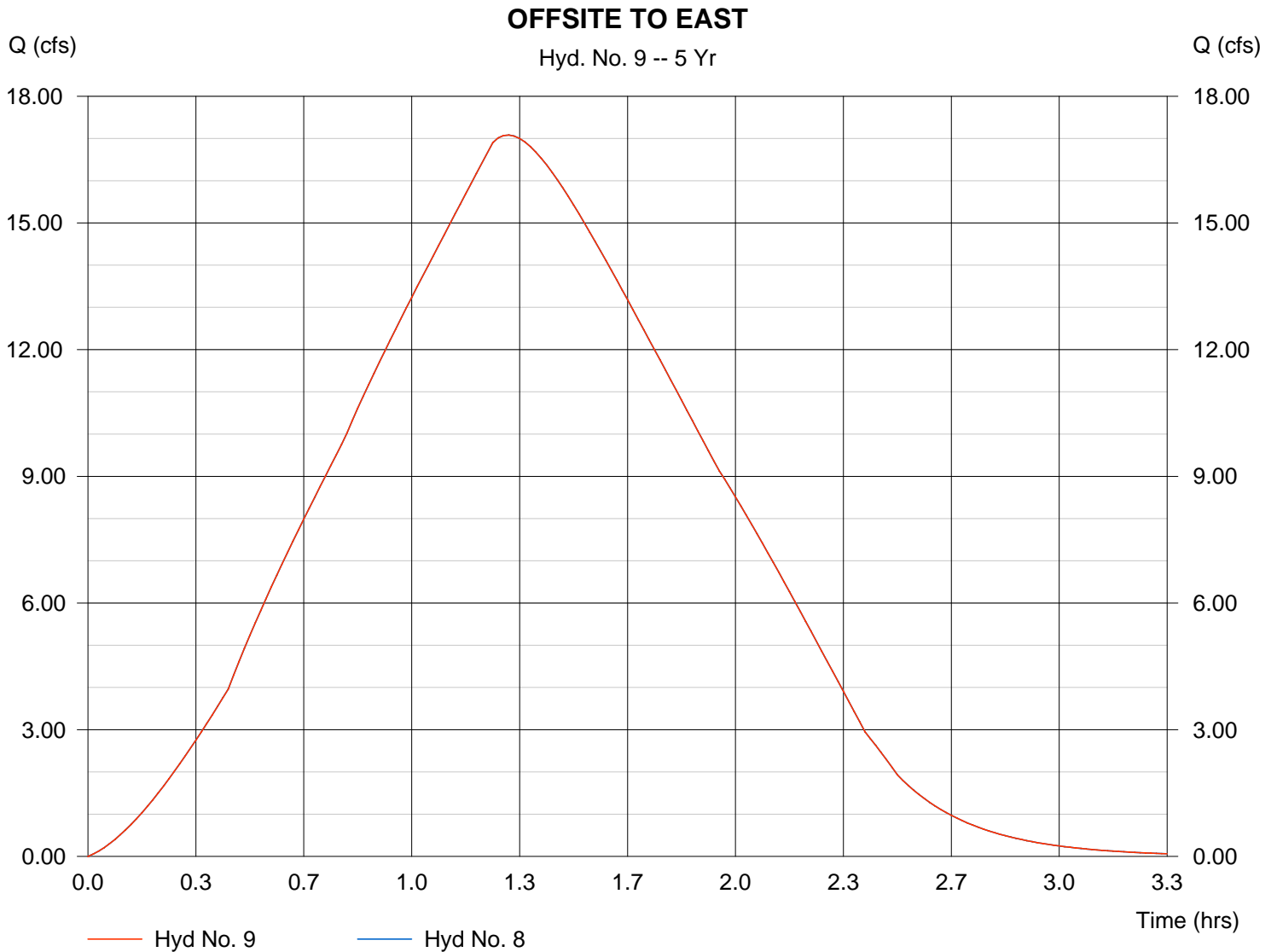
OFFSITE TO EAST

Hydrograph type = Reservoir
 Storm frequency = 5 yrs
 Inflow hyd. No. = 8
 Reservoir name = To Offsite

Peak discharge = 17.08 cfs
 Time interval = 1 min
 Max. Elevation = 1349.70 ft
 Max. Storage = 1 cuft

Storage Indication method used.

Hydrograph Volume = 81,334 cuft



Pond No. 2 - To Offsite

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1348.50	01	0	0
1.00	1349.50	01	1	1
2.00	1350.50	01	1	2
3.00	1351.50	01	1	3
4.00	1352.50	01	1	4

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1348.50	0.00	0.00	0.00
Weir Coeff.	= 2.60	0.00	0.00	0.00
Weir Type	= Broad	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control. Weir riser checked for orifice conditions.

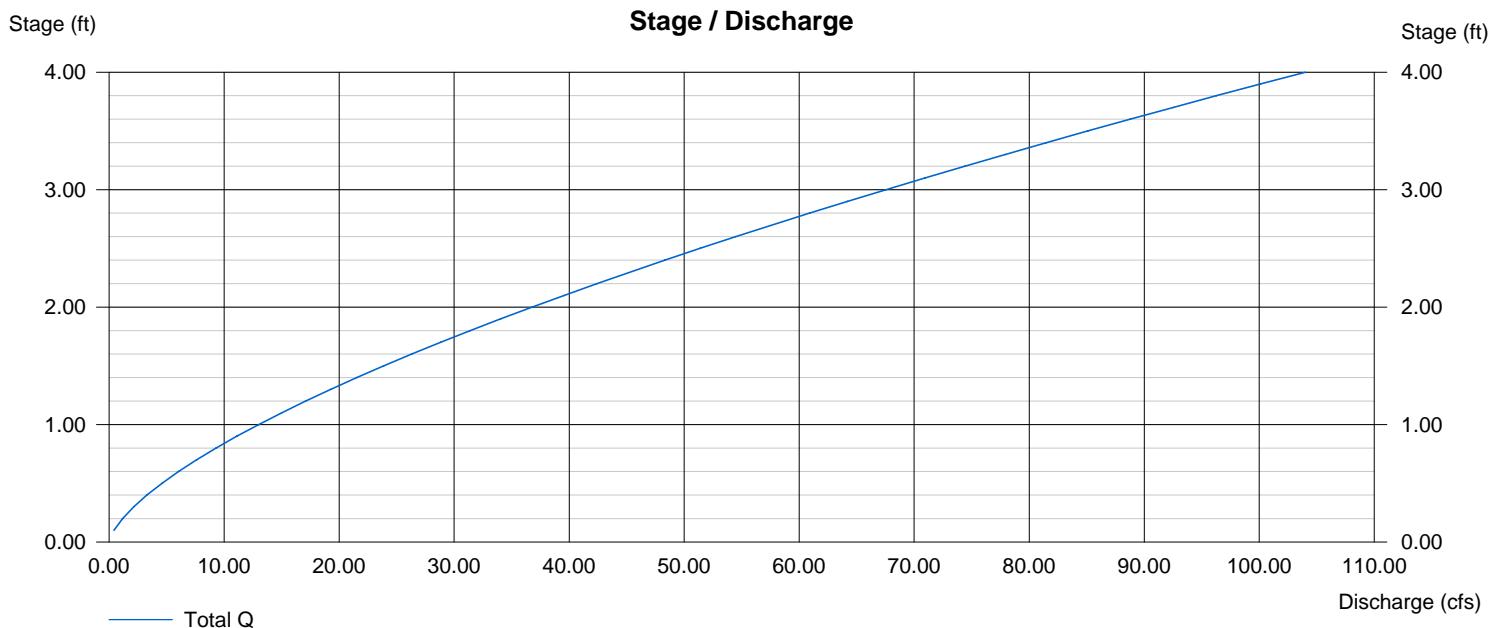


Table of Contents

100 - Year

Summary Report	1
Hydrograph Reports	2
Hydrograph No. 1, Rational, DA1-R100	2
Hydrograph No. 2, Rational, DA2-R100	3
Hydrograph No. 3, Rational, DAOFFSITE-R100	4
Hydrograph No. 4, Rational, DA3-R100	5
Hydrograph No. 5, Combine, ADD DA2 & DAOFFSITE	6
Hydrograph No. 6, Combine, ADD DA1, DA2, & DAOFFSITE	7
Hydrograph No. 7, Reservoir, THROUGH POND	8
Pond Report	9
Hydrograph No. 8, Combine, COMBINE OUTFALL TO DA3	10
Hydrograph No. 9, Reservoir, OFFSITE TO EAST	11
Pond Report	12

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description	
1	Rational	5.681	1	75	25,564	----	-----	-----	DA1-R100	
2	Rational	24.79	1	75	111,570	----	-----	-----	DA2-R100	
3	Rational	9.228	1	75	41,525	----	-----	-----	DAOFFSITE-R100	
4	Rational	10.74	1	75	48,326	----	-----	-----	DA3-R100	
5	Combine	34.02	1	75	153,094	2, 3,	-----	-----	ADD DA2 & DAOFFSITE	
6	Combine	39.70	1	75	178,658	1, 5	-----	-----	ADD DA1, DA2, & DAOFFSITE	
7	Reservoir	38.18	1	78	178,657	6	1354.68	13,720	THROUGH POND	
8	Combine	48.58	1	77	226,984	4, 7	-----	-----	COMBINE OUTFALL TO DA3	
9	Reservoir	48.58	1	77	226,984	8	1350.91	2	OFFSITE TO EAST	
Exist Drainage 100YEAR-REV.gpw					Return Period: 100 Year			Thursday, Dec 14 2006		

Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

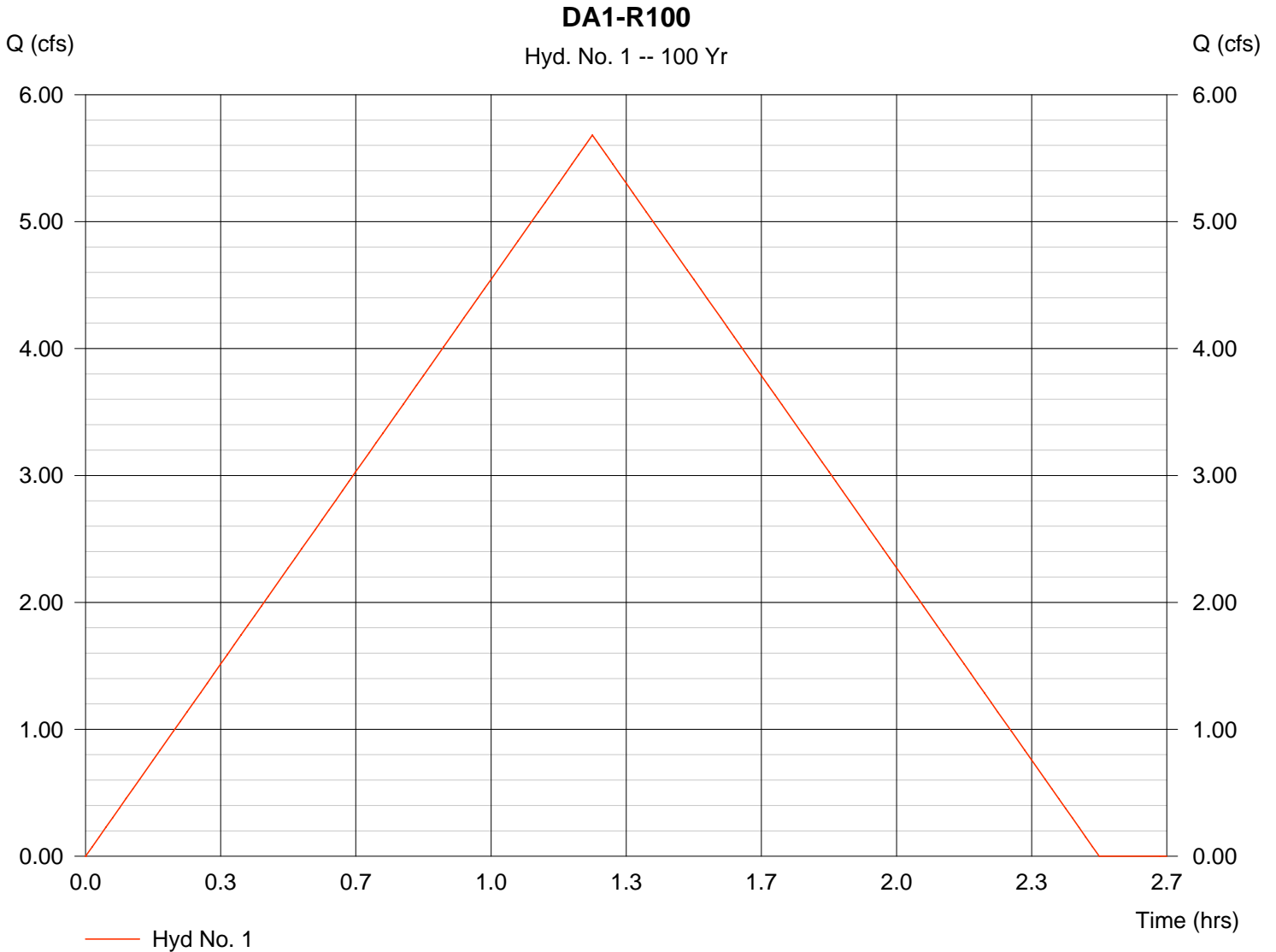
Hyd. No. 1

DA1-R100

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 1.323 ac
Intensity = 7.533 in/hr
IDF Curve = SedgwickCo.IDF

Peak discharge = 5.681 cfs
Time interval = 1 min
Runoff coeff. = 0.57
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 25,564 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

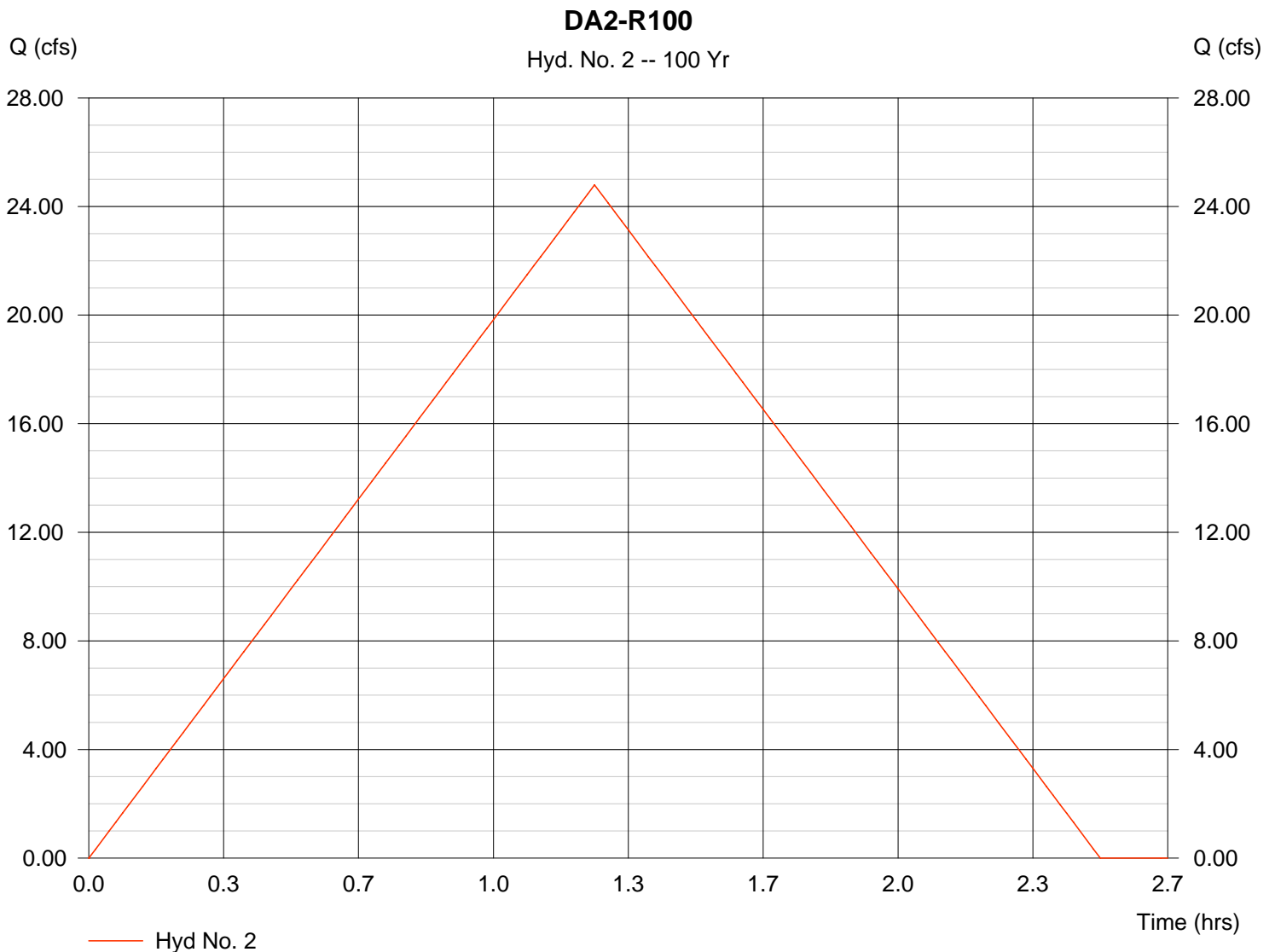
Hyd. No. 2

DA2-R100

Hydrograph type = Rational
 Storm frequency = 100 yrs
 Drainage area = 5.774 ac
 Intensity = 7.533 in/hr
 IDF Curve = SedgwickCo.IDF

Peak discharge = 24.79 cfs
 Time interval = 1 min
 Runoff coeff. = 0.57
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 111,570 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

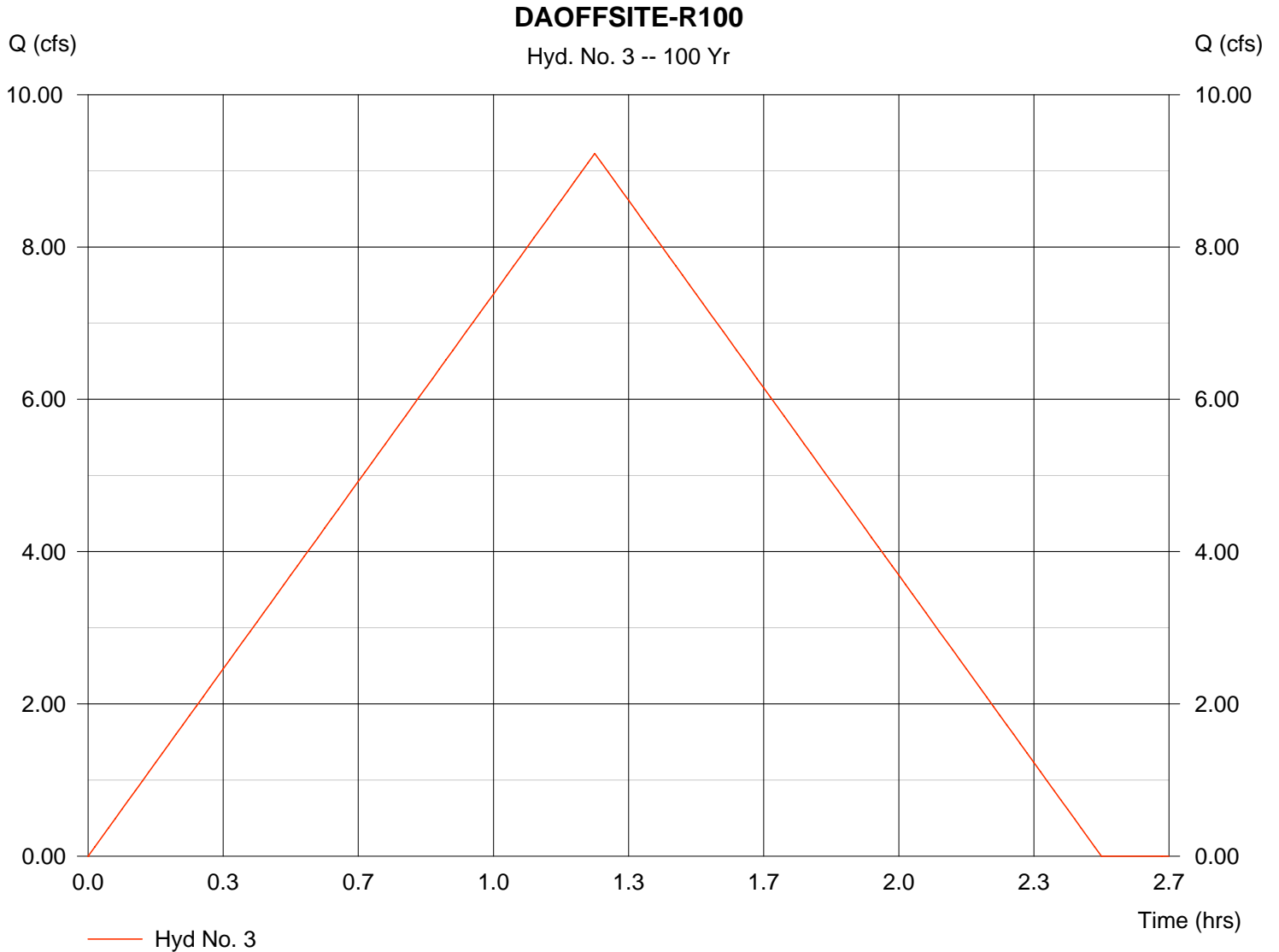
Hyd. No. 3

DAOFFSITE-R100

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 2.149 ac
Intensity = 7.533 in/hr
IDF Curve = SedgwickCo.IDF

Peak discharge = 9.228 cfs
Time interval = 1 min
Runoff coeff. = 0.57
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 41,525 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

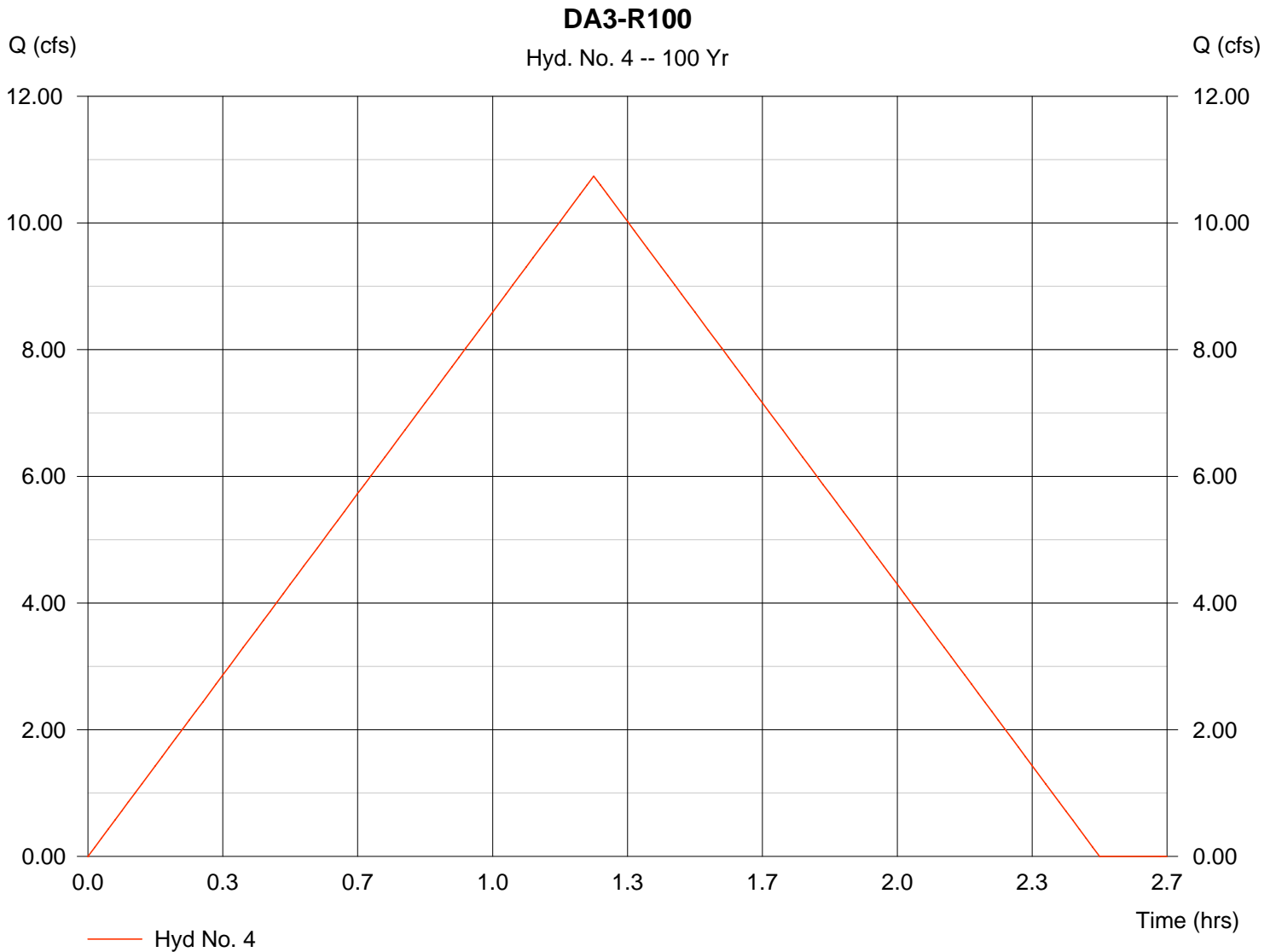
Hyd. No. 4

DA3-R100

Hydrograph type = Rational
 Storm frequency = 100 yrs
 Drainage area = 2.501 ac
 Intensity = 7.533 in/hr
 IDF Curve = SedgwickCo.IDF

Peak discharge = 10.74 cfs
 Time interval = 1 min
 Runoff coeff. = 0.57
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 48,326 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

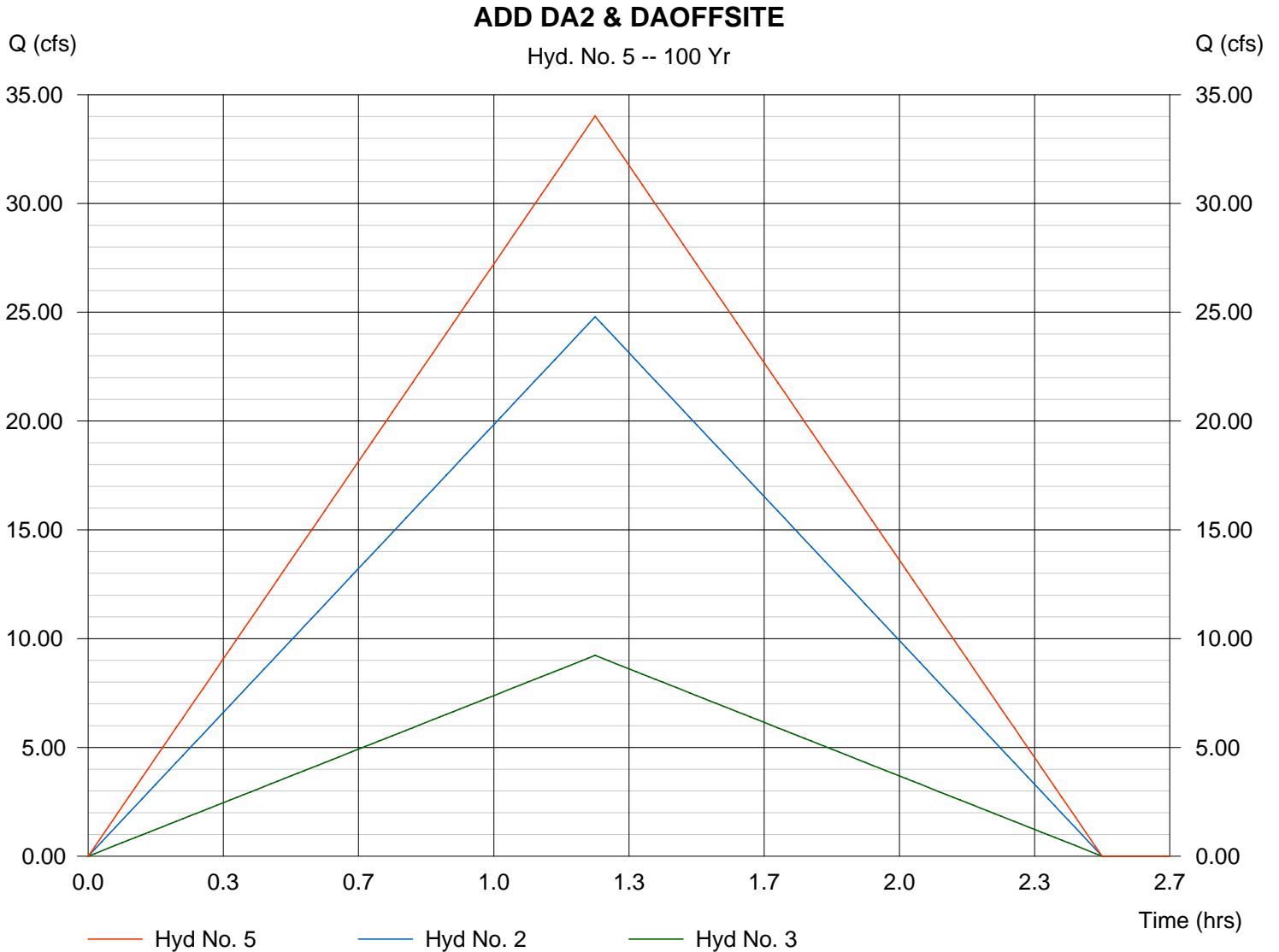
Hyd. No. 5

ADD DA2 & DAOFFSITE

Hydrograph type = Combine
Storm frequency = 100 yrs
Inflow hyds. = 2, 3

Peak discharge = 34.02 cfs
Time interval = 1 min

Hydrograph Volume = 153,094 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

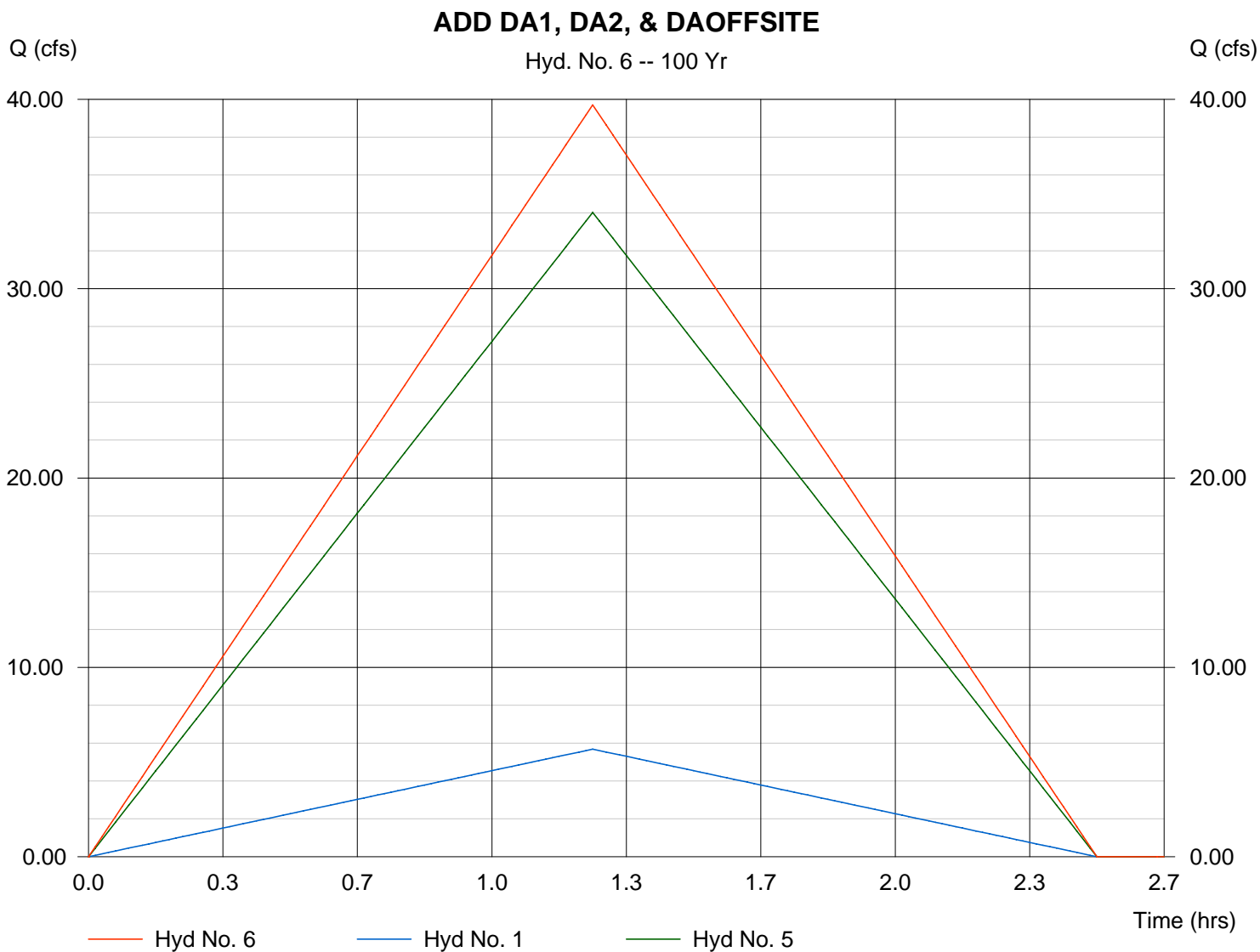
Hyd. No. 6

ADD DA1, DA2, & DAOFFSITE

Hydrograph type = Combine
 Storm frequency = 100 yrs
 Inflow hyds. = 1, 5

Peak discharge = 39.70 cfs
 Time interval = 1 min

Hydrograph Volume = 178,658 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

Hyd. No. 7

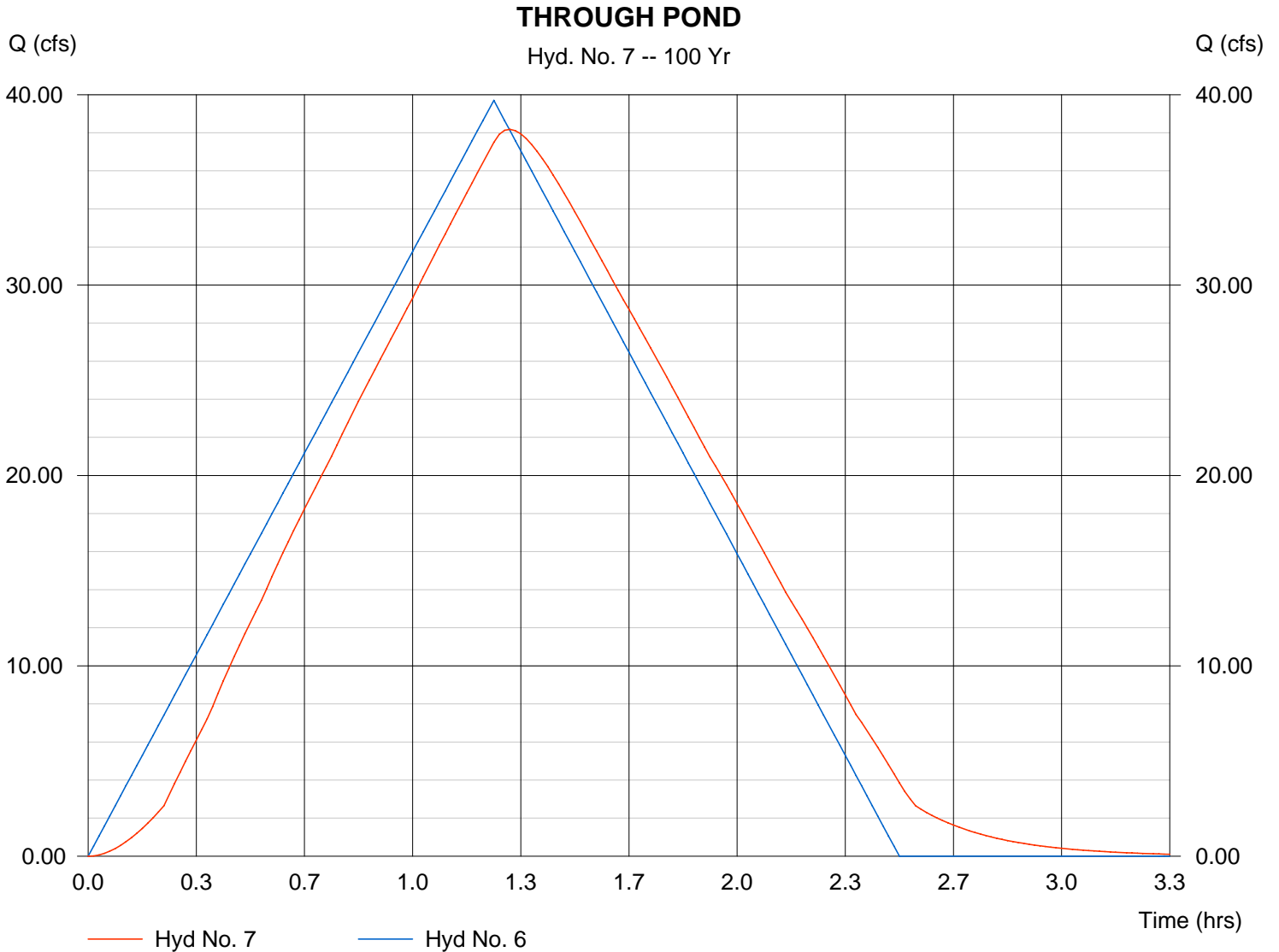
THROUGH POND

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 6
Reservoir name = EXISTING POND

Peak discharge = 38.18 cfs
Time interval = 1 min
Max. Elevation = 1354.68 ft
Max. Storage = 13,720 cuft

Storage Indication method used.

Hydrograph Volume = 178,657 cuft



Pond No. 1 - EXISTING POND

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1354.20	22,662	0	0
0.80	1355.00	35,073	23,094	23,094
1.80	1356.00	43,541	39,307	62,401
2.80	1357.00	54,091	48,816	111,217

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

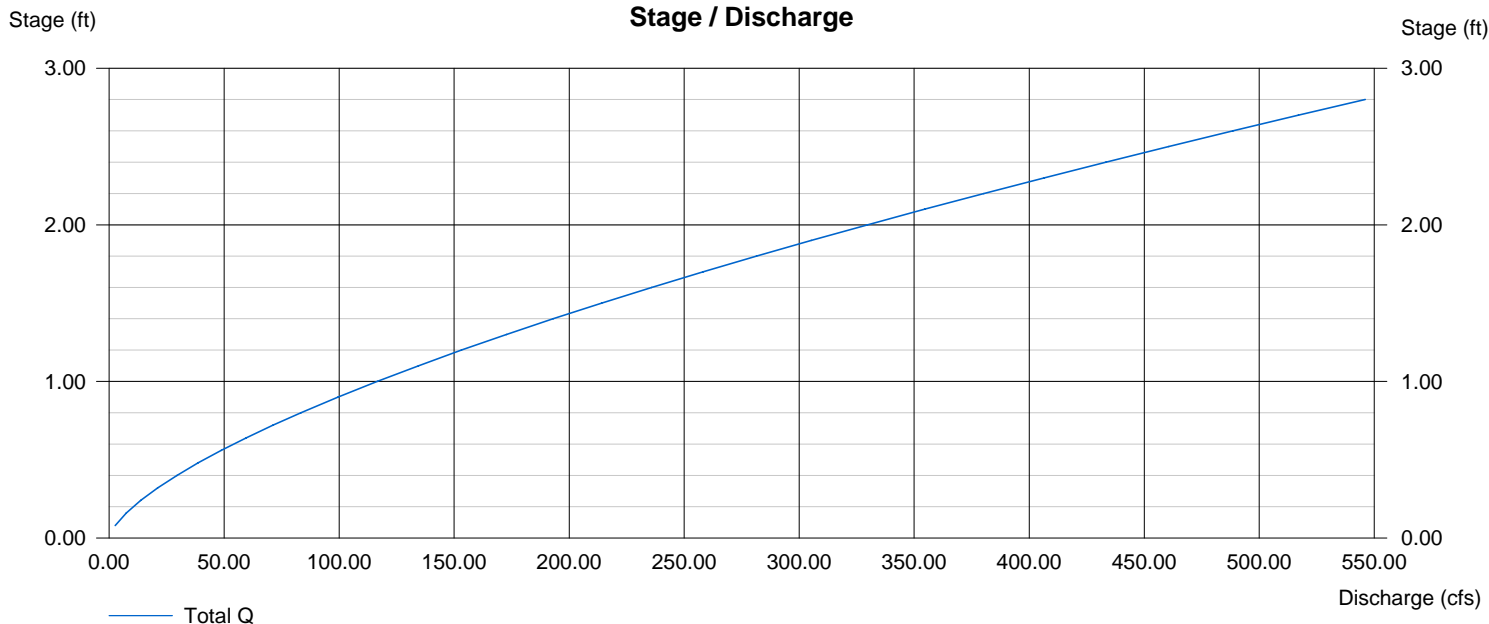
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 35.00	0.00	0.00	0.00
Crest El. (ft)	= 1354.20	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Cipiti	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.

Stage / Discharge



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

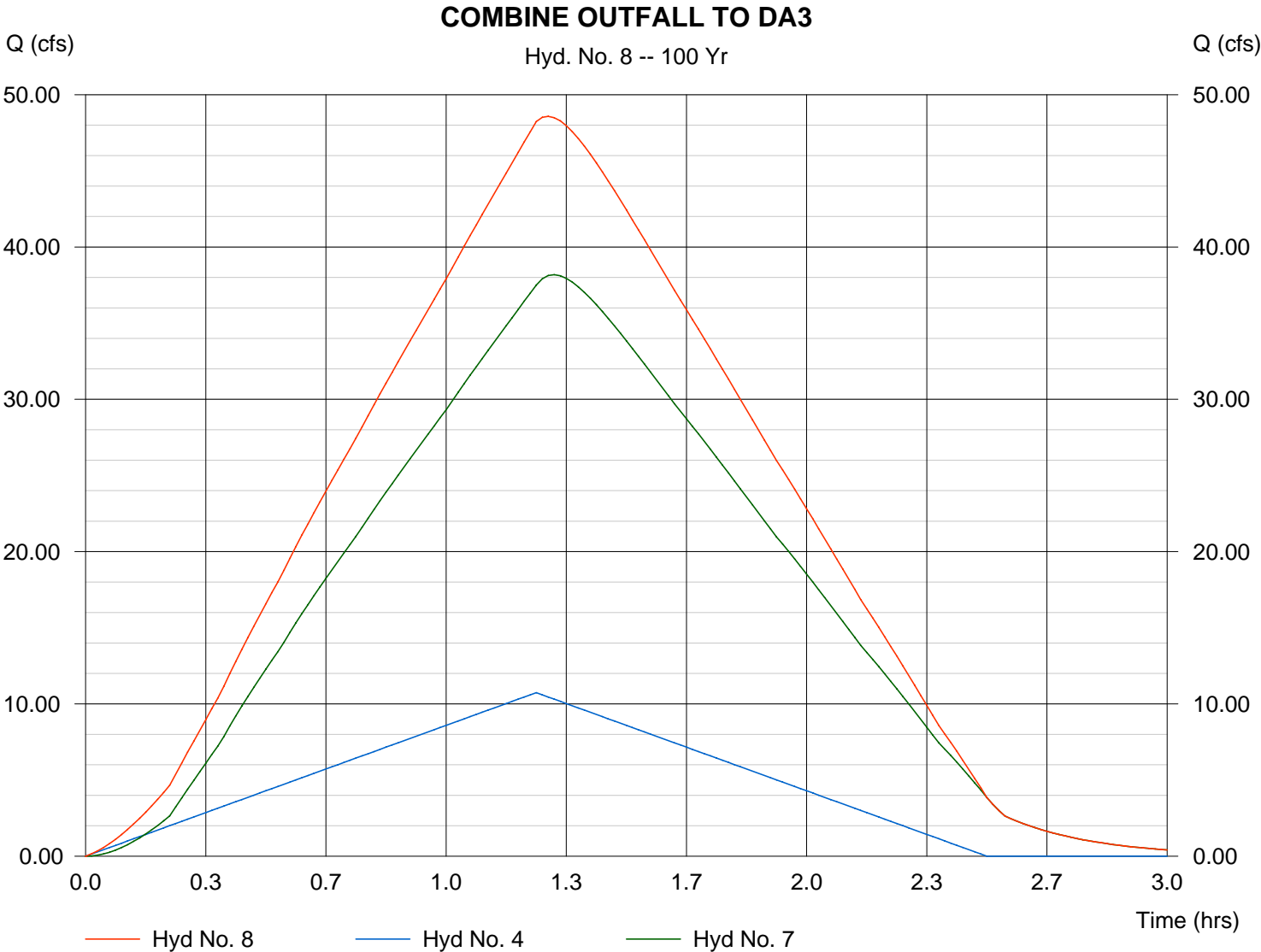
Hyd. No. 8

COMBINE OUTFALL TO DA3

Hydrograph type = Combine
Storm frequency = 100 yrs
Inflow hyds. = 4, 7

Peak discharge = 48.58 cfs
Time interval = 1 min

Hydrograph Volume = 226,984 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:38 AM

Hyd. No. 9

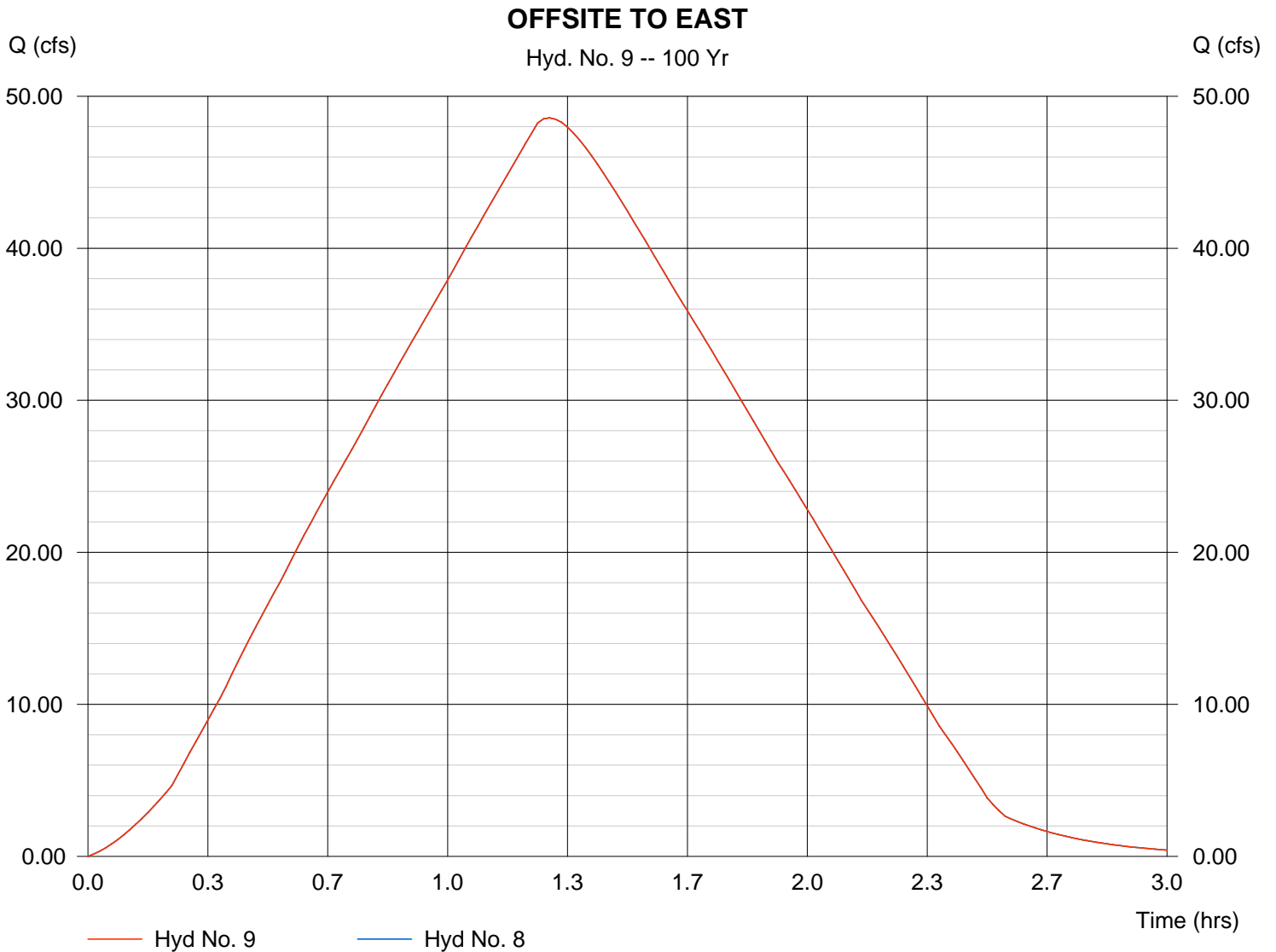
OFFSITE TO EAST

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 8
Reservoir name = To Offsite

Peak discharge = 48.58 cfs
Time interval = 1 min
Max. Elevation = 1350.91 ft
Max. Storage = 2 cuft

Storage Indication method used.

Hydrograph Volume = 226,984 cuft



Pond No. 2 - To Offsite

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1348.50	01	0	0
1.00	1349.50	01	1	1
2.00	1350.50	01	1	2
3.00	1351.50	01	1	3
4.00	1352.50	01	1	4

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1348.50	0.00	0.00	0.00
Weir Coeff.	= 2.60	0.00	0.00	0.00
Weir Type	= Broad	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control. Weir riser checked for orifice conditions.

Stage / Discharge

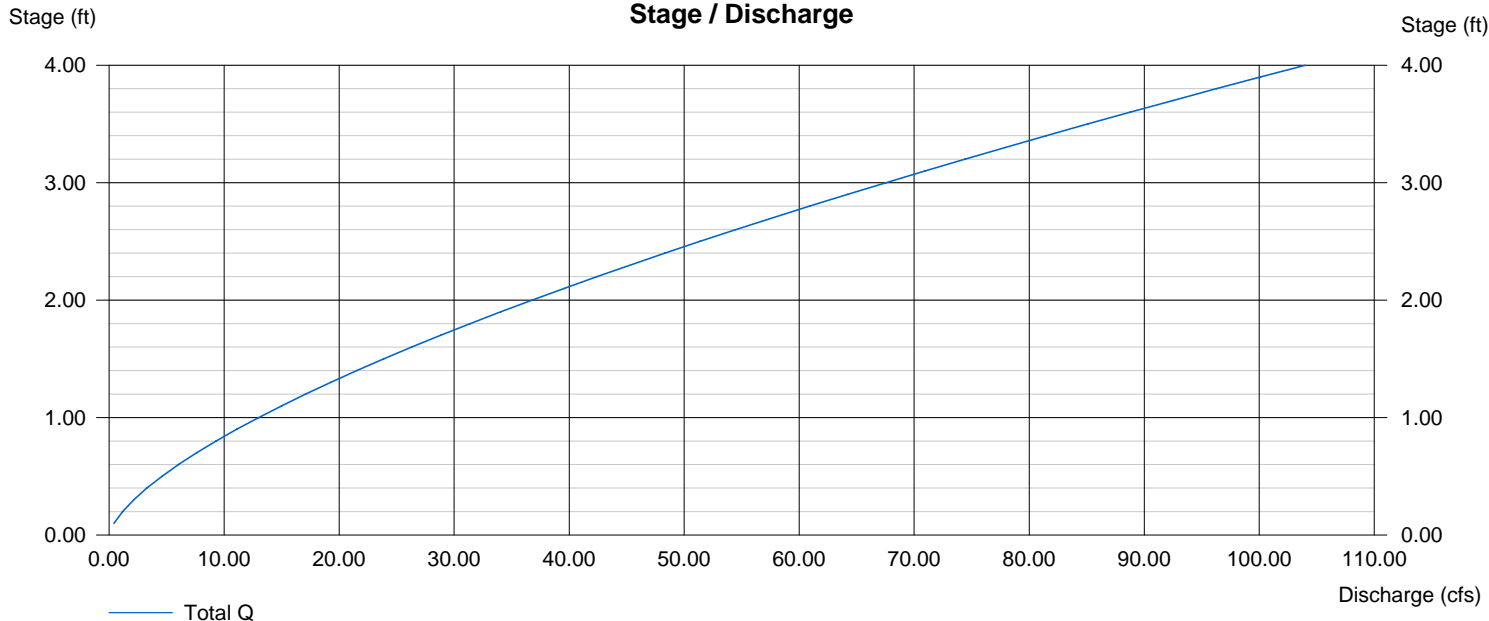


Table of Contents

5 - Year

Summary Report	1
Hydrograph Reports	2
Hydrograph No. 1, Rational, DA1-R5	2
Hydrograph No. 2, Rational, DA2-R5	3
Hydrograph No. 3, Rational, DAOFFSITE-R5	4
Hydrograph No. 4, Rational, DA3-R5	5
Hydrograph No. 5, Combine, ADD DA2 & DAOFFSITE	6
Hydrograph No. 6, Reservoir, DA1 TO STORM SEWER	7
Pond Report	8
Hydrograph No. 7, Combine, ADD DA1, DA2, & DAOFFSITE	9
Hydrograph No. 8, Reservoir, THROUGH POND	10
Pond Report	11
Hydrograph No. 9, Combine, COMBINE OUTFALL TO DA3	12
Hydrograph No. 10, Reservoir, OFFSITE	13
Pond Report	14

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	Rational	3.118	1	75	14,032	----	-----	-----	DA1-R5
2	Rational	13.61	1	75	61,239	----	-----	-----	DA2-R5
3	Rational	5.065	1	75	22,792	----	-----	-----	DAOFFSITE-R5
4	Rational	5.895	1	75	26,526	----	-----	-----	DA3-R5
5	Combine	18.67	1	75	84,032	2, 3,	-----	-----	ADD DA2 & DAOFFSITE
6	Reservoir	3.117	1	75	13,954	1	1362.93	87	DA1 TO STORM SEWER
7	Combine	21.79	1	75	97,986	5, 6	-----	-----	ADD DA1, DA2, & DAOFFSITE
8	Reservoir	12.67	1	106	96,401	7	1356.28	59,557	THROUGH POND
9	Combine	16.34	1	101	122,927	4, 8	-----	-----	COMBINE OUTFALL TO DA3
10	Reservoir	16.34	1	100	122,927	9	1349.66	1	OFFSITE
Final Drainage 5YEAR-REV.gpw					Return Period: 5 Year			Thursday, Dec 14 2006	

Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

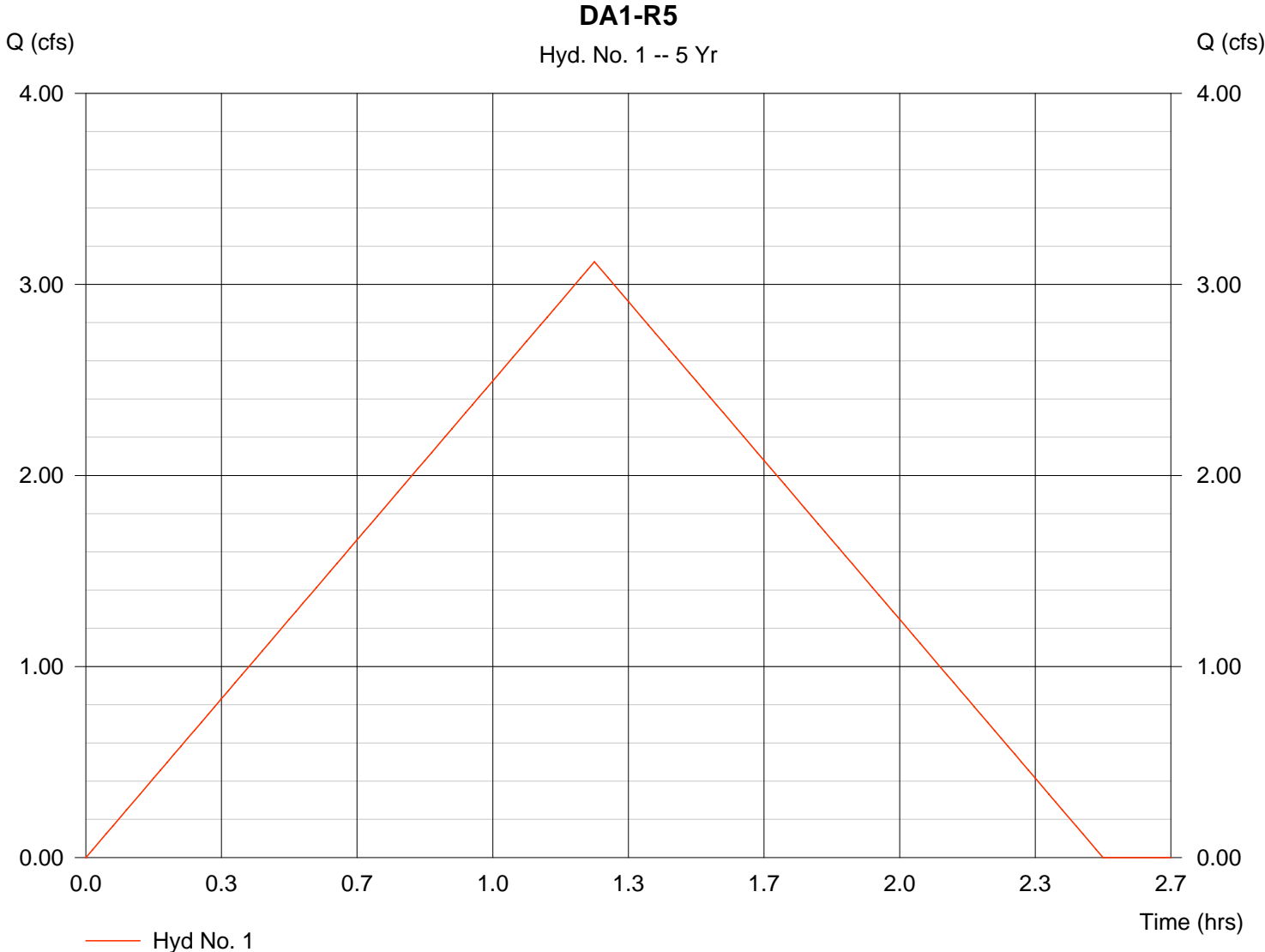
Hyd. No. 1

DA1-R5

Hydrograph type = Rational
Storm frequency = 5 yrs
Drainage area = 1.323 ac
Intensity = 4.621 in/hr
IDF Curve = SedgwickCoREV.IDF

Peak discharge = 3.118 cfs
Time interval = 1 min
Runoff coeff. = 0.51
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 14,032 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

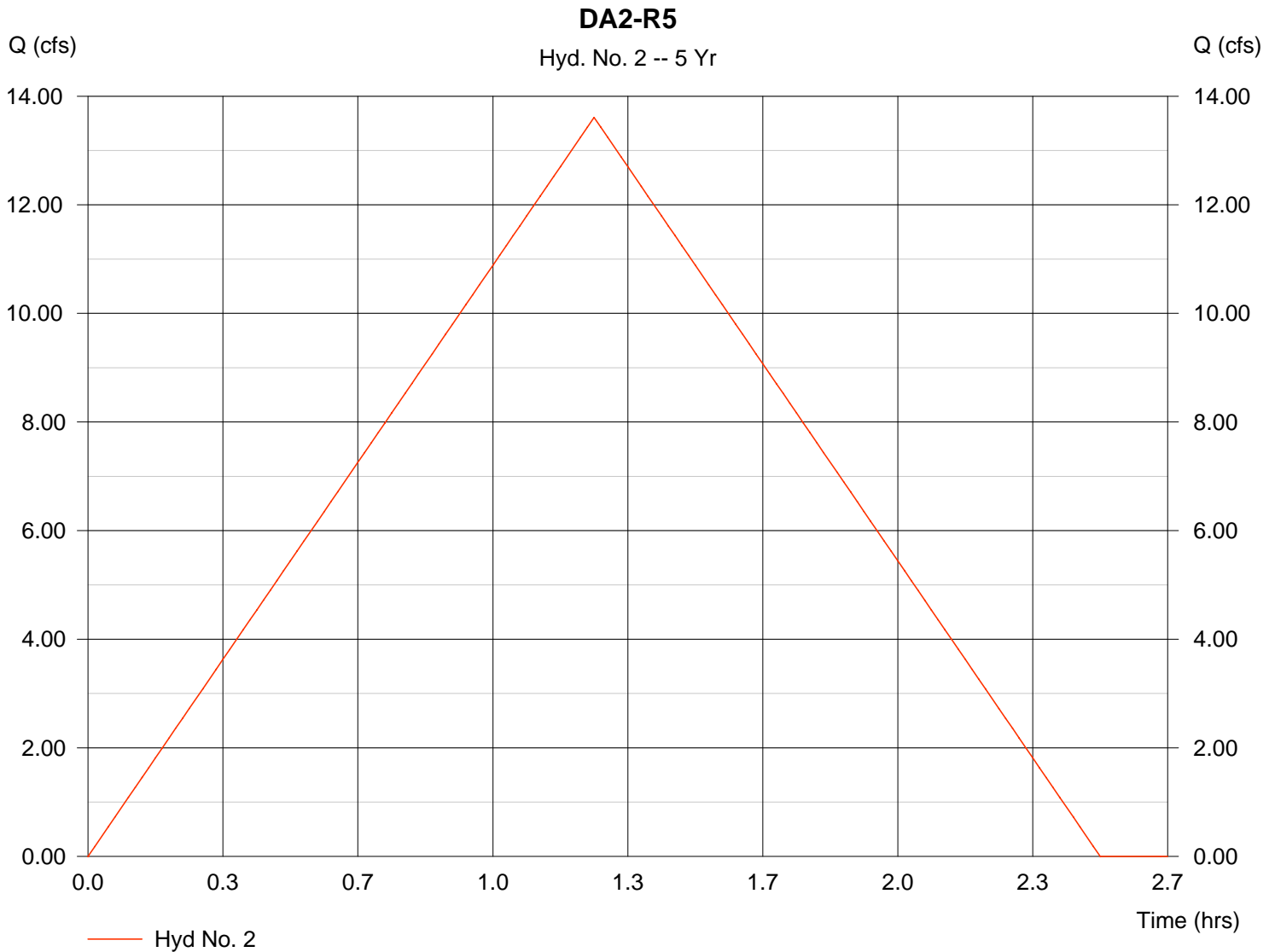
Hyd. No. 2

DA2-R5

Hydrograph type = Rational
 Storm frequency = 5 yrs
 Drainage area = 5.774 ac
 Intensity = 4.621 in/hr
 IDF Curve = SedgwickCoREV.IDF

Peak discharge = 13.61 cfs
 Time interval = 1 min
 Runoff coeff. = 0.51
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 61,239 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

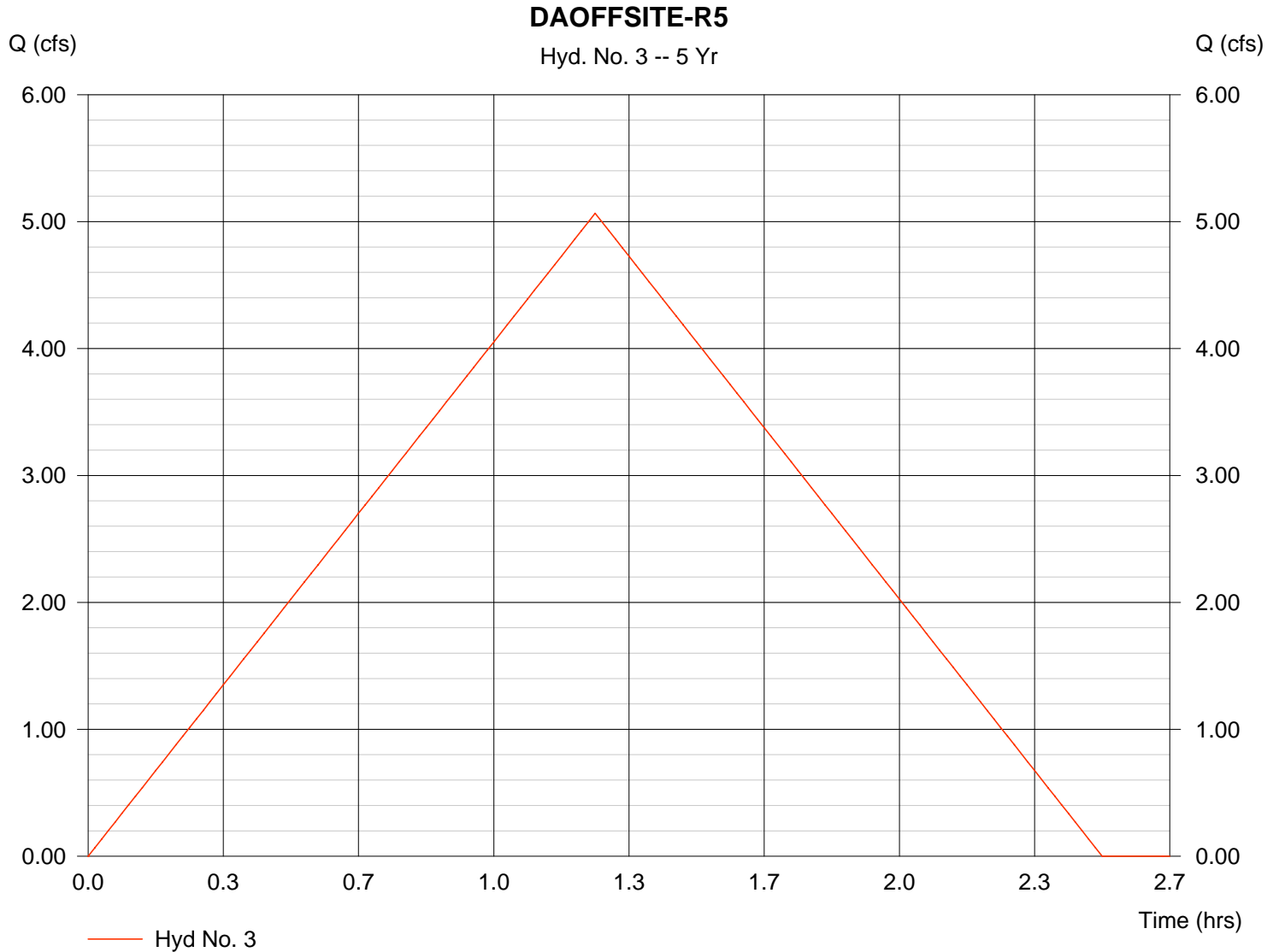
Hyd. No. 3

DAOFFSITE-R5

Hydrograph type = Rational
Storm frequency = 5 yrs
Drainage area = 2.149 ac
Intensity = 4.621 in/hr
IDF Curve = SedgwickCoREV.IDF

Peak discharge = 5.065 cfs
Time interval = 1 min
Runoff coeff. = 0.51
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 22,792 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

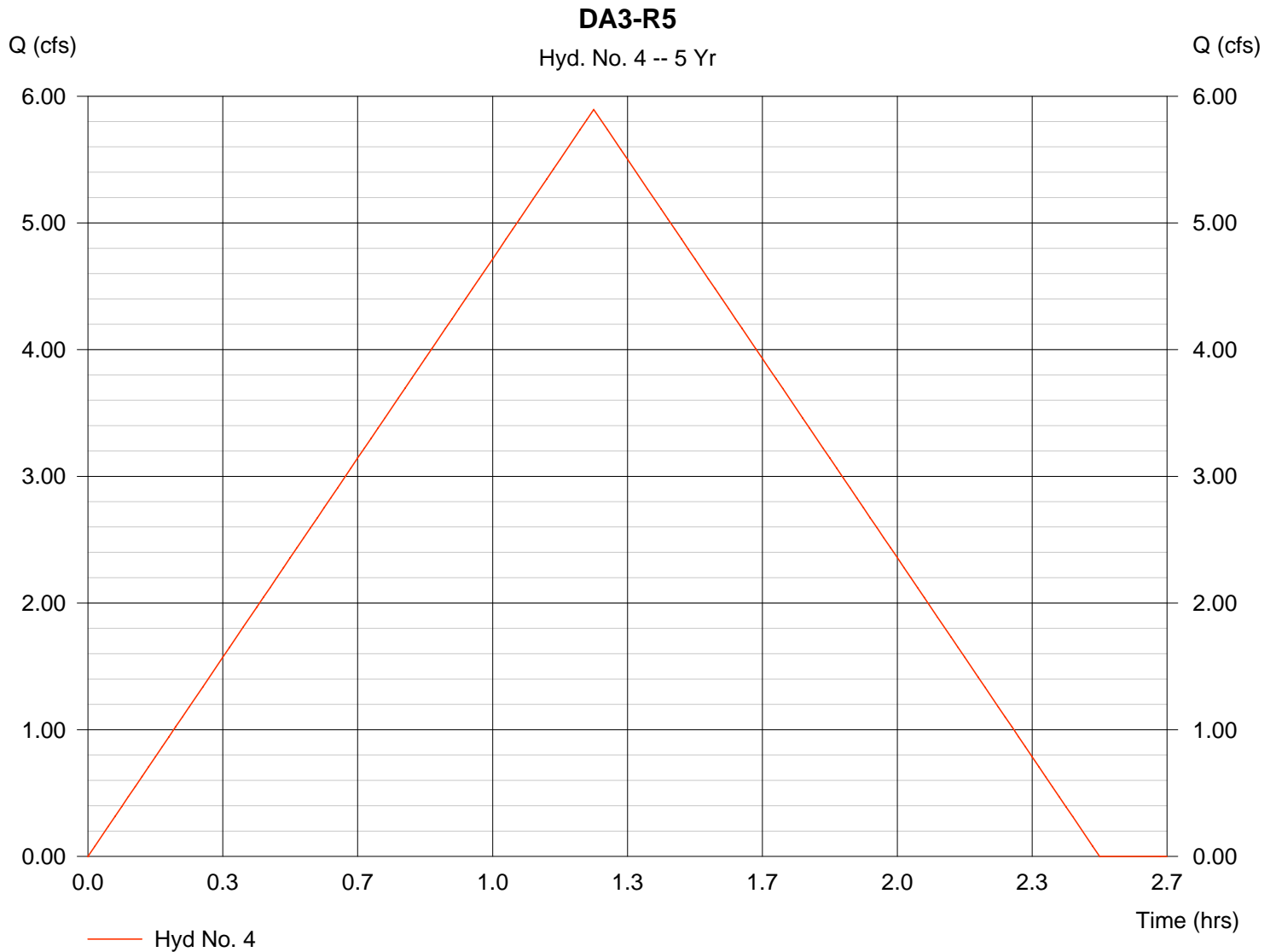
Hyd. No. 4

DA3-R5

Hydrograph type = Rational
 Storm frequency = 5 yrs
 Drainage area = 2.501 ac
 Intensity = 4.621 in/hr
 IDF Curve = SedgwickCoREV.IDF

Peak discharge = 5.895 cfs
 Time interval = 1 min
 Runoff coeff. = 0.51
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 26,526 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

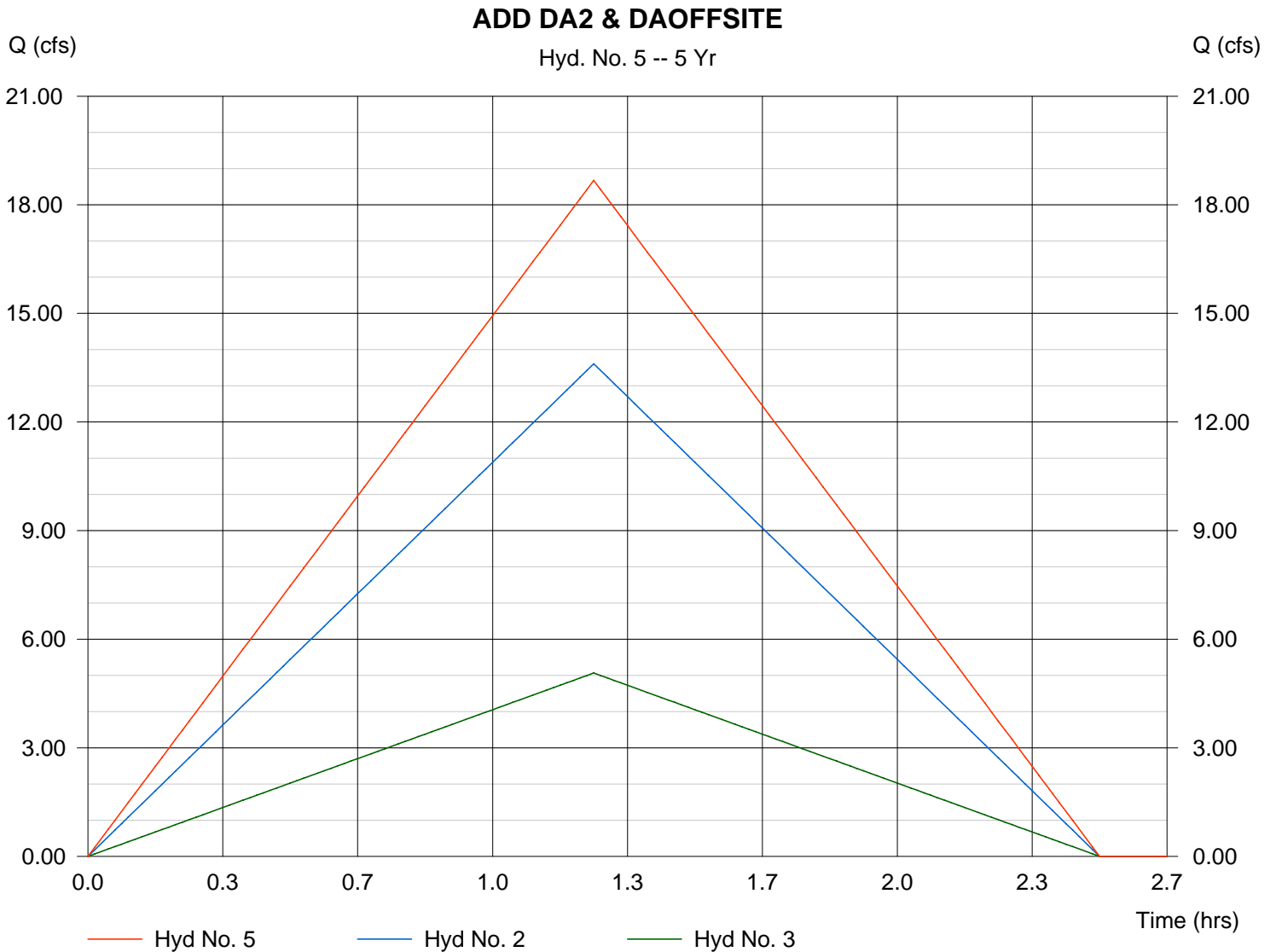
Hyd. No. 5

ADD DA2 & DAOFFSITE

Hydrograph type = Combine
 Storm frequency = 5 yrs
 Inflow hyds. = 2, 3

Peak discharge = 18.67 cfs
 Time interval = 1 min

Hydrograph Volume = 84,032 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

Hyd. No. 6

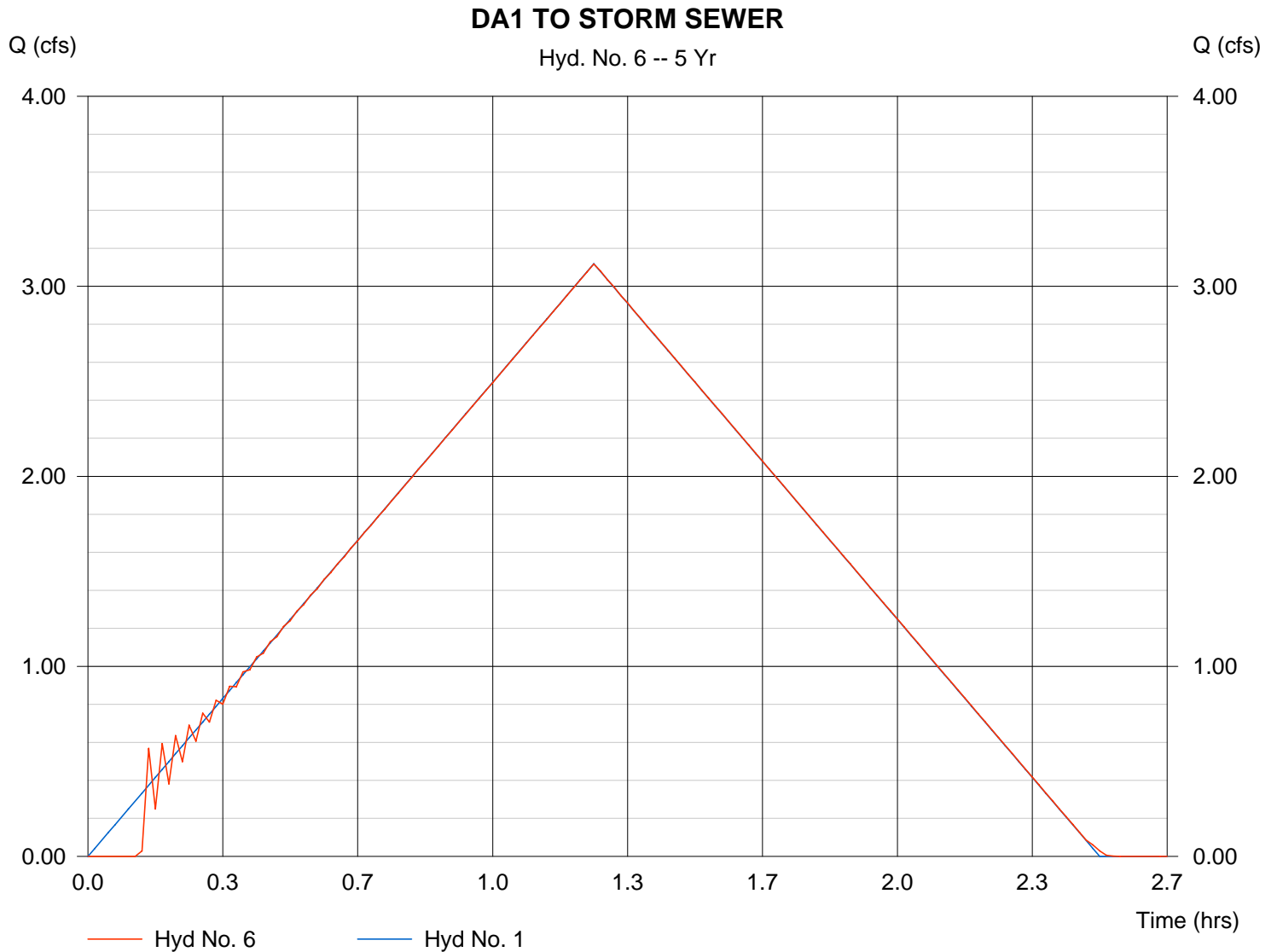
DA1 TO STORM SEWER

Hydrograph type = Reservoir
 Storm frequency = 5 yrs
 Inflow hyd. No. = 1
 Reservoir name = STORM SEWER

Peak discharge = 3.117 cfs
 Time interval = 1 min
 Max. Elevation = 1362.93 ft
 Max. Storage = 87 cuft

Storage Indication method used.

Hydrograph Volume = 13,954 cuft



Pond No. 3 - STORM SEWER

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1358.00	16	0	0
0.44	1358.44	16	7	7
1.44	1359.44	16	16	23
2.44	1360.44	16	16	39
3.44	1361.44	16	16	55
4.44	1362.44	16	16	71
5.44	1363.44	50	33	104
6.44	1364.44	8,702	4,376	4,480
7.44	1365.44	9,000	8,851	13,331

Culvert / Orifice Structures

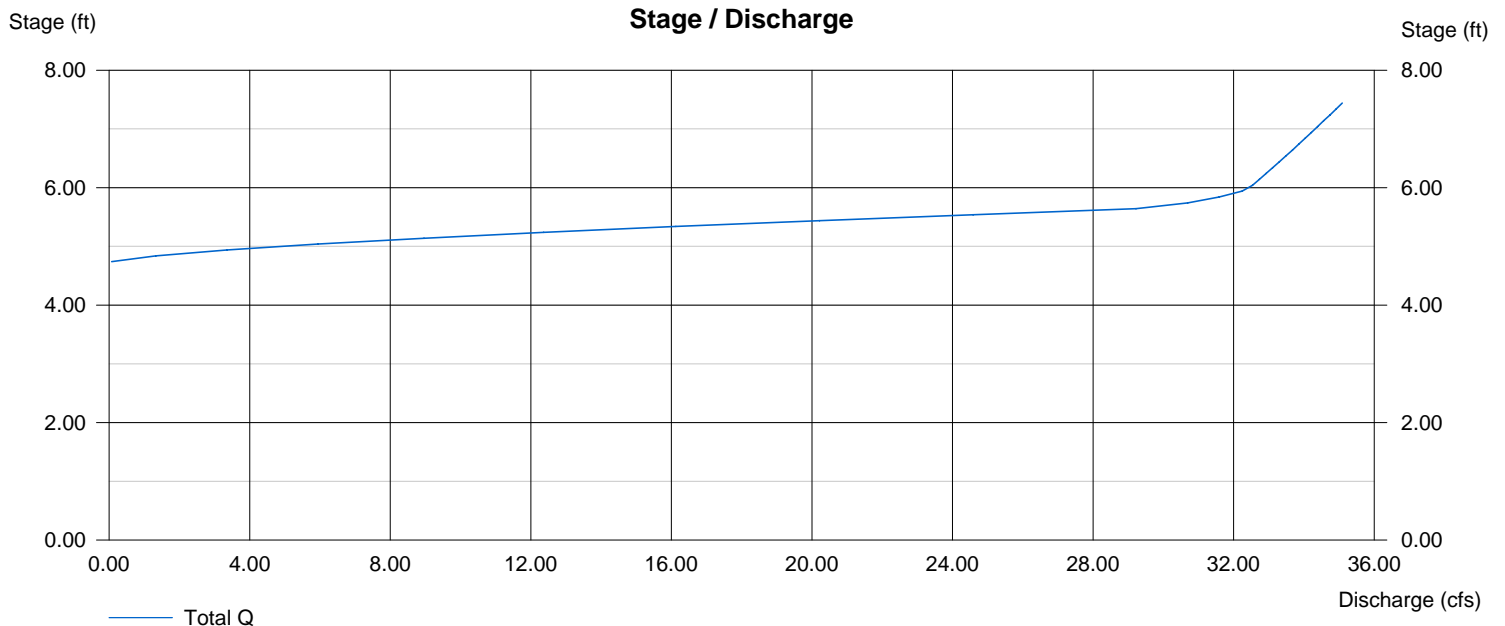
	[A]	[B]	[C]	[D]
Rise (in)	= 24.00	0.00	0.00	0.00
Span (in)	= 24.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1358.00	0.00	0.00	0.00
Length (ft)	= 302.00	0.00	0.00	0.00
Slope (%)	= 1.65	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 10.00	0.00	0.00	0.00
Crest El. (ft)	= 1362.72	0.00	0.00	0.00
Weir Coeff.	= 3.33	0.00	0.00	0.00
Weir Type	= Riser	---	---	---
Multi-Stage	= Yes	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control. Weir riser checked for orifice conditions.



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

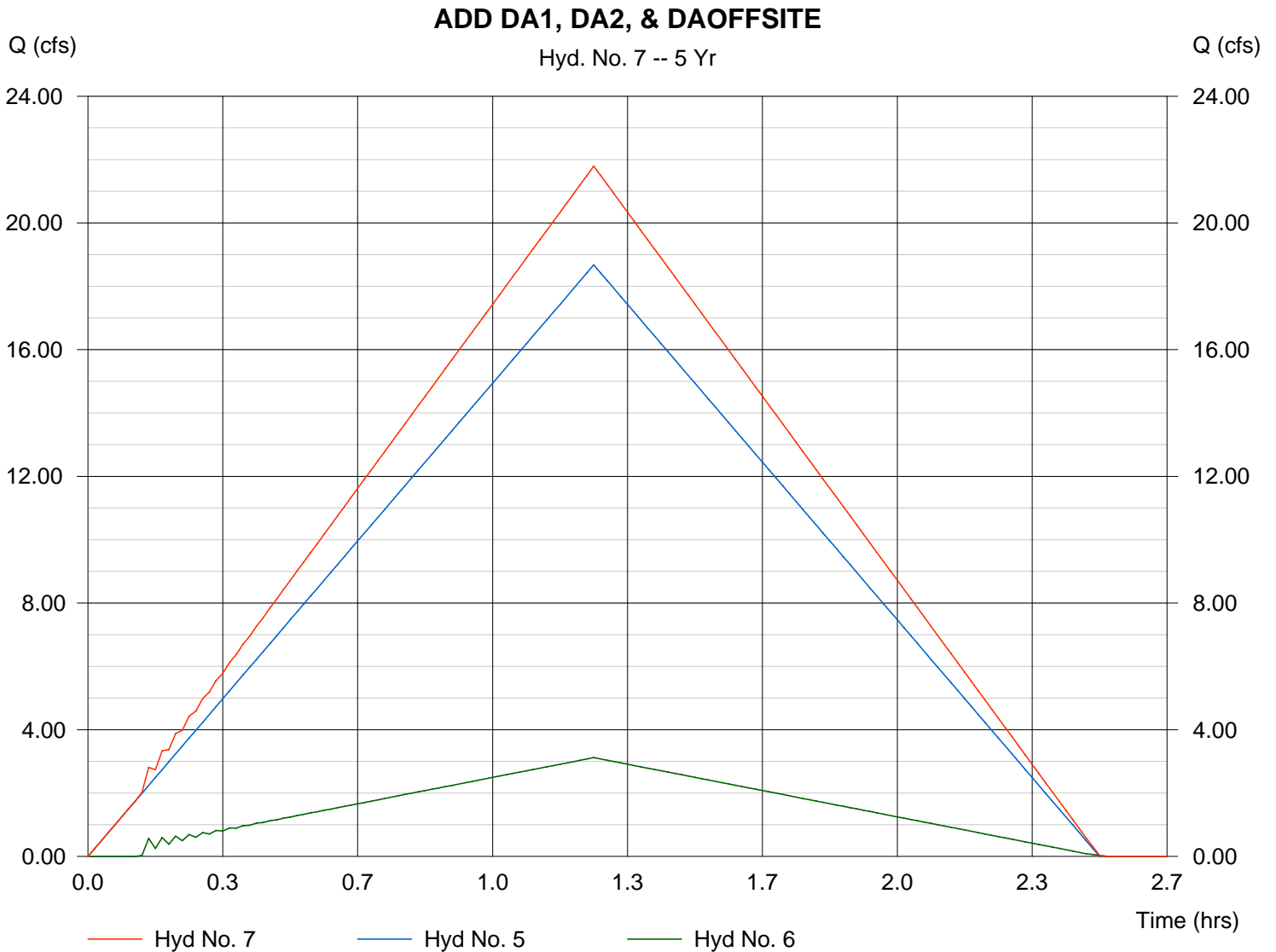
Hyd. No. 7

ADD DA1, DA2, & DAOFFSITE

Hydrograph type = Combine
Storm frequency = 5 yrs
Inflow hyds. = 5, 6

Peak discharge = 21.79 cfs
Time interval = 1 min

Hydrograph Volume = 97,986 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

Hyd. No. 8

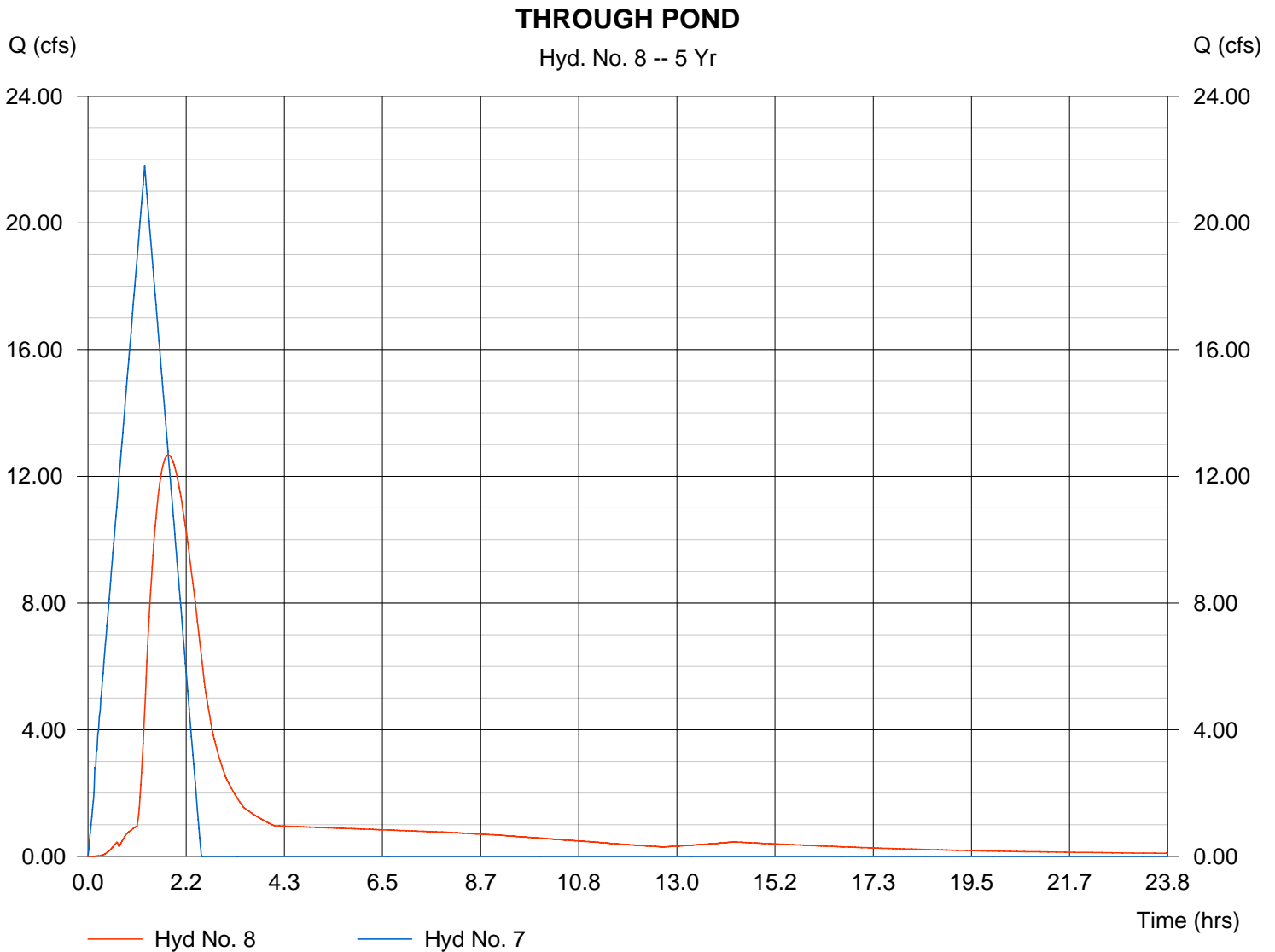
THROUGH POND

Hydrograph type = Reservoir
 Storm frequency = 5 yrs
 Inflow hyd. No. = 7
 Reservoir name = PROPOSED POND

Peak discharge = 12.67 cfs
 Time interval = 1 min
 Max. Elevation = 1356.28 ft
 Max. Storage = 59,557 cuft

Storage Indication method used.

Hydrograph Volume = 96,401 cuft



Pond No. 1 - PROPOSED POND

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1354.20	23,620	0	0
0.80	1355.00	28,470	20,836	20,836
1.80	1356.00	31,071	29,771	50,607
2.80	1357.00	33,773	32,422	83,029

Culvert / Orifice Structures

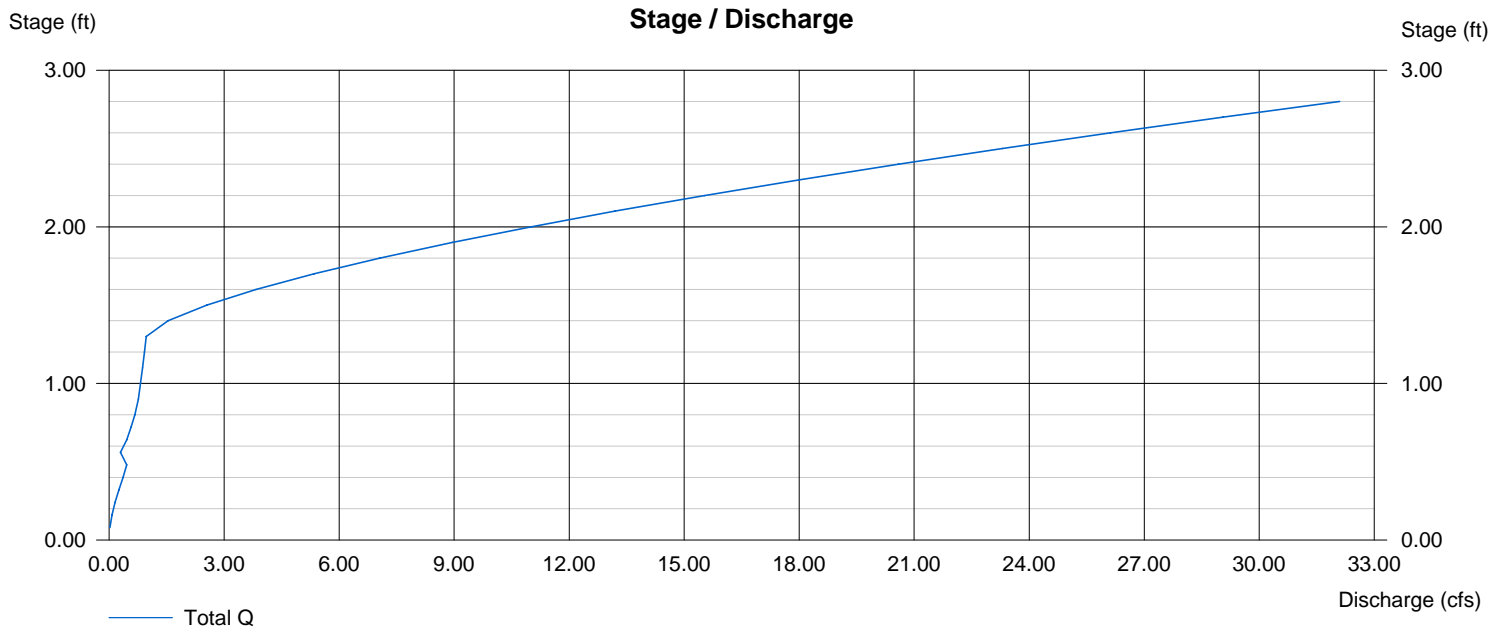
	[A]	[B]	[C]	[D]
Rise (in)	= 6.00	0.00	0.00	0.00
Span (in)	= 6.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1354.20	0.00	0.00	0.00
Length (ft)	= 2.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1355.50	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Cipiti	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

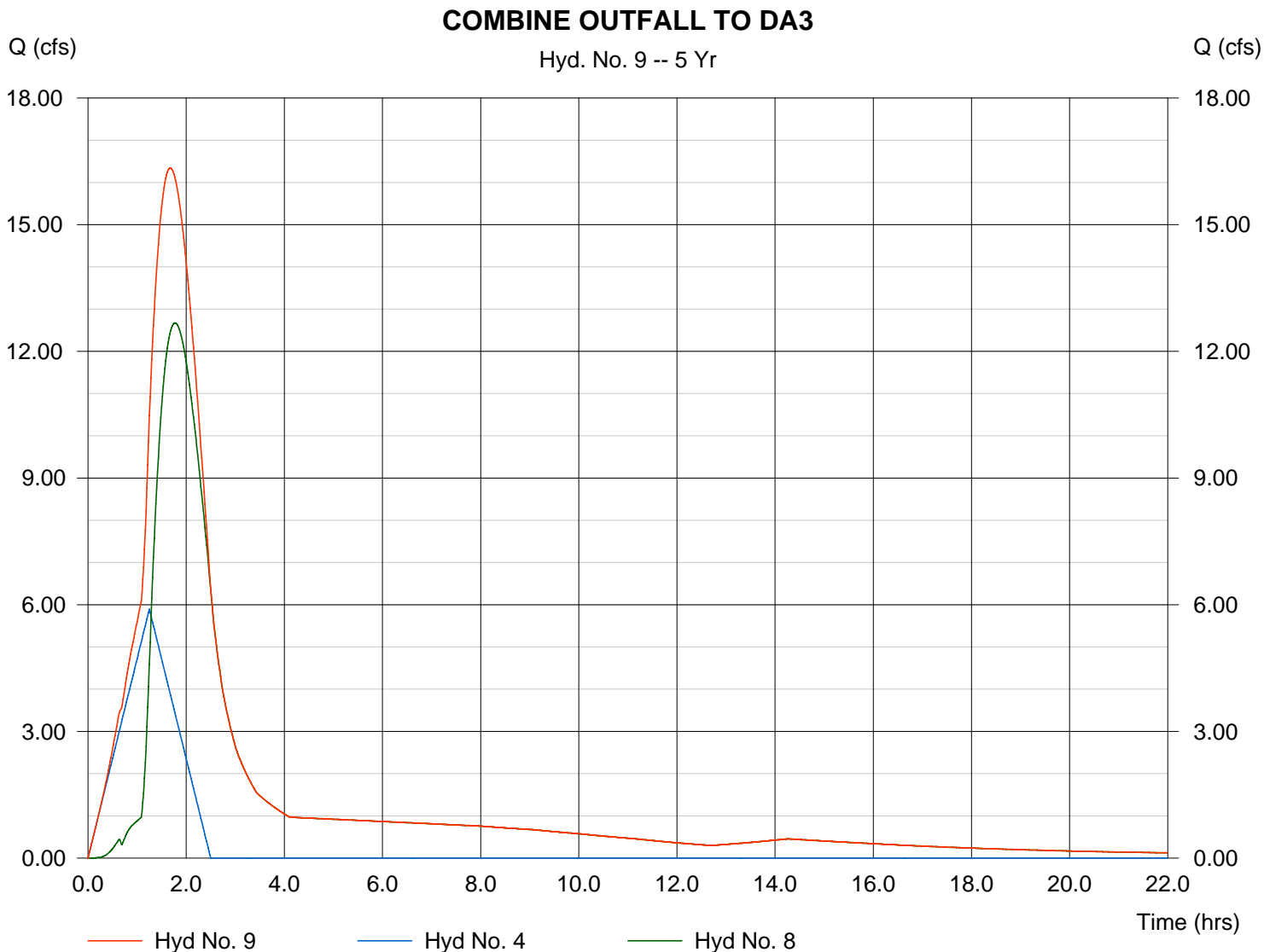
Hyd. No. 9

COMBINE OUTFALL TO DA3

Hydrograph type = Combine
Storm frequency = 5 yrs
Inflow hyds. = 4, 8

Peak discharge = 16.34 cfs
Time interval = 1 min

Hydrograph Volume = 122,927 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:42 AM

Hyd. No. 10

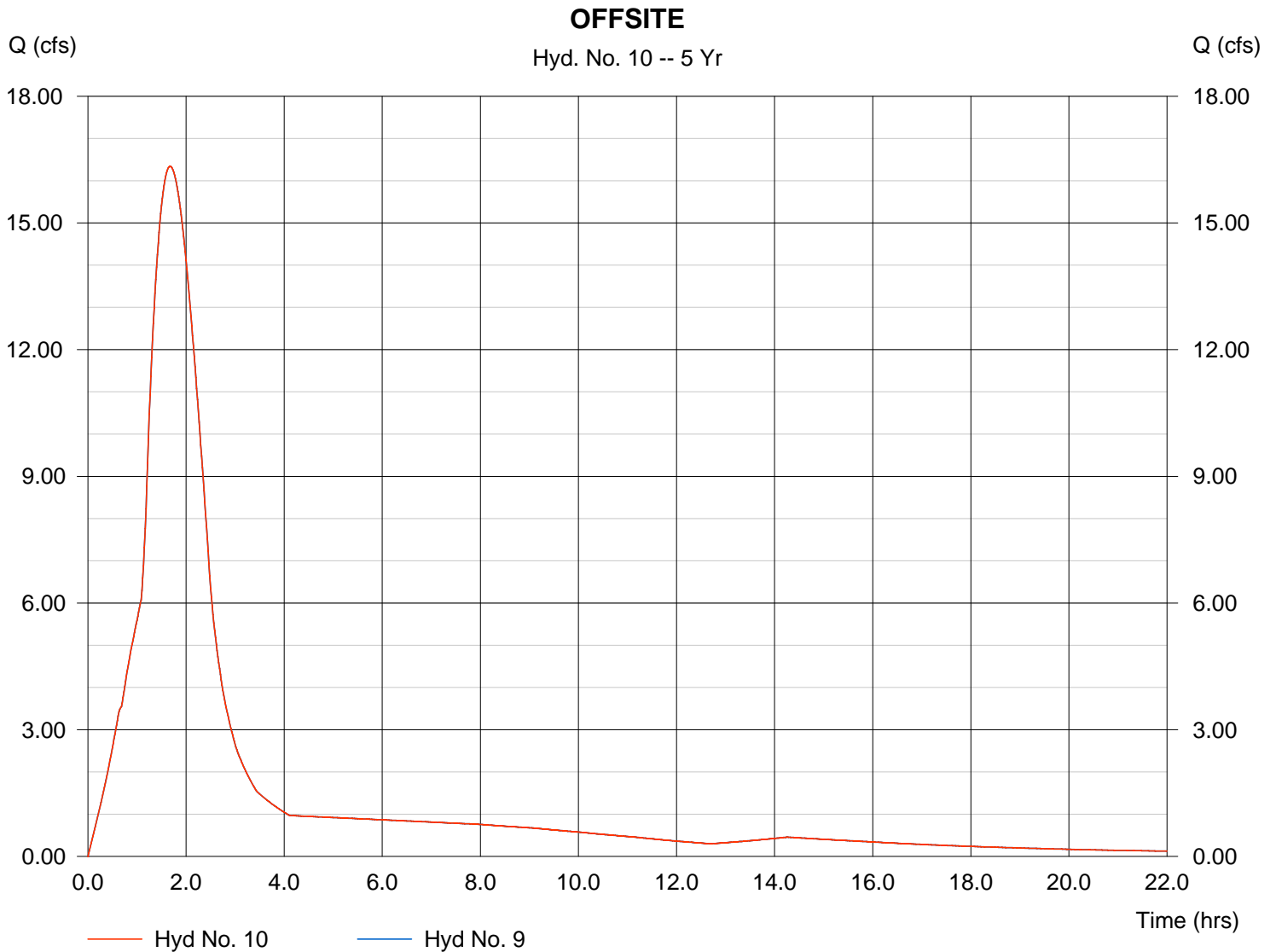
OFFSITE

Hydrograph type = Reservoir
 Storm frequency = 5 yrs
 Inflow hyd. No. = 9
 Reservoir name = To Offsite

Peak discharge = 16.34 cfs
 Time interval = 1 min
 Max. Elevation = 1349.66 ft
 Max. Storage = 1 cuft

Storage Indication method used.

Hydrograph Volume = 122,927 cuft



Pond No. 2 - To Offsite

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1348.50	01	0	0
1.00	1349.50	01	1	1
2.00	1350.50	01	1	2
3.00	1351.50	01	1	3
4.00	1352.50	01	1	4

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1348.50	0.00	0.00	0.00
Weir Coeff.	= 2.60	0.00	0.00	0.00
Weir Type	= Broad	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control. Weir riser checked for orifice conditions.

Stage / Discharge

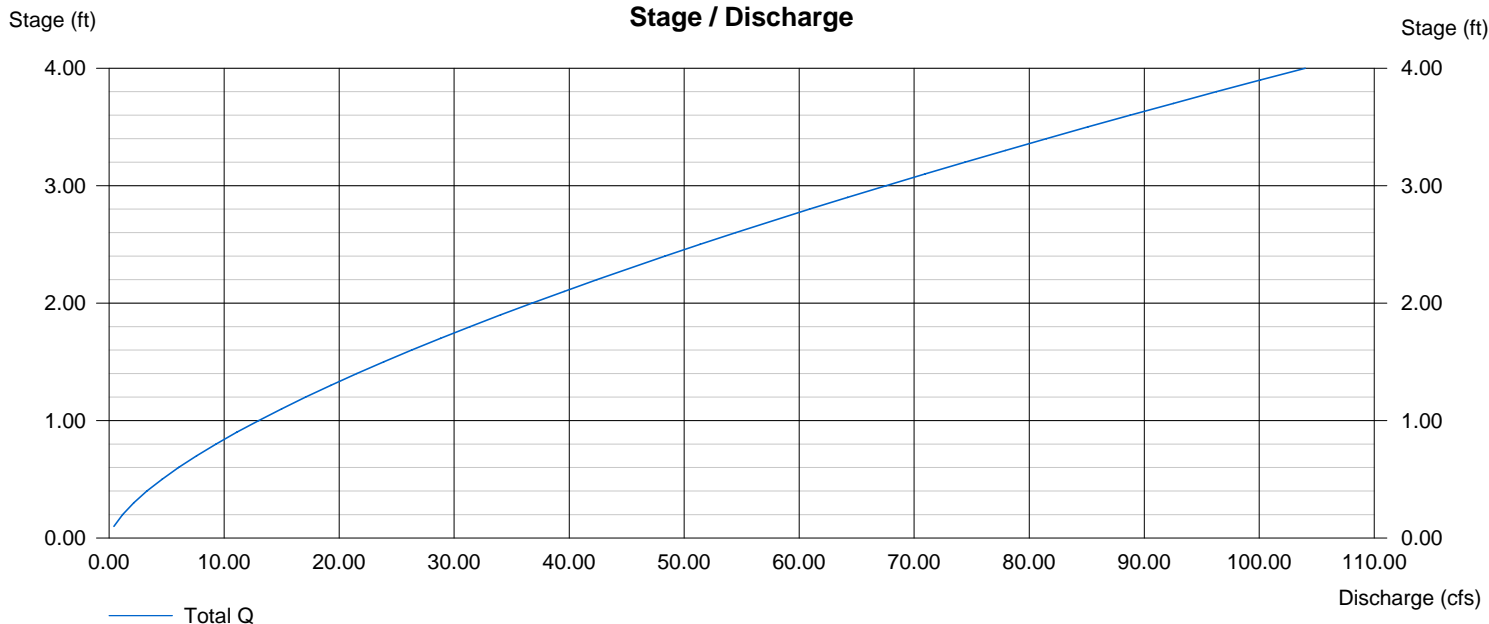


Table of Contents

100 - Year

Summary Report	1
Hydrograph Reports	2
Hydrograph No. 1, Rational, DA1-R100	2
Hydrograph No. 2, Rational, DA2-R100	3
Hydrograph No. 3, Rational, DAOFFSITE-R100	4
Hydrograph No. 4, Rational, DA3-R100	5
Hydrograph No. 5, Combine, ADD DA2 & DAOFFSITE	6
Hydrograph No. 6, Reservoir, DA1 TO STORM SEWER	7
Pond Report	8
Hydrograph No. 7, Combine, ADD DA1, DA2, & DAOFFSITE	9
Hydrograph No. 8, Reservoir, THROUGH POND	10
Pond Report	11
Hydrograph No. 9, Combine, COMBINE OUTFALL TO DA3	12
Hydrograph No. 10, Reservoir, OFFSITE	13
Pond Report	14

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description	
1	Rational	6.462	1	75	29,079	----	-----	-----	DA1-R100	
2	Rational	28.20	1	75	126,909	----	-----	-----	DA2-R100	
3	Rational	9.065	1	75	40,793	----	-----	-----	DAOFFSITE-R100	
4	Rational	10.55	1	75	47,474	----	-----	-----	DA3-R100	
5	Combine	37.27	1	75	167,701	2, 3,	-----	-----	ADD DA2 & DAOFFSITE	
6	Reservoir	6.460	1	75	29,001	1	1363.06	91	DA1 TO STORM SEWER	
7	Combine	43.73	1	75	196,702	5, 6	-----	-----	ADD DA1, DA2, & DAOFFSITE	
8	Reservoir	38.15	1	85	195,749	7	1356.46	65,624	THROUGH POND	
9	Combine	47.52	1	82	243,223	4, 8	-----	-----	COMBINE OUTFALL TO DA3	
10	Reservoir	47.52	1	82	243,223	9	1350.87	2	OFFSITE	
Final Drainage 100YEAR-REV.gpw					Return Period: 100 Year			Thursday, Dec 14 2006		

Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

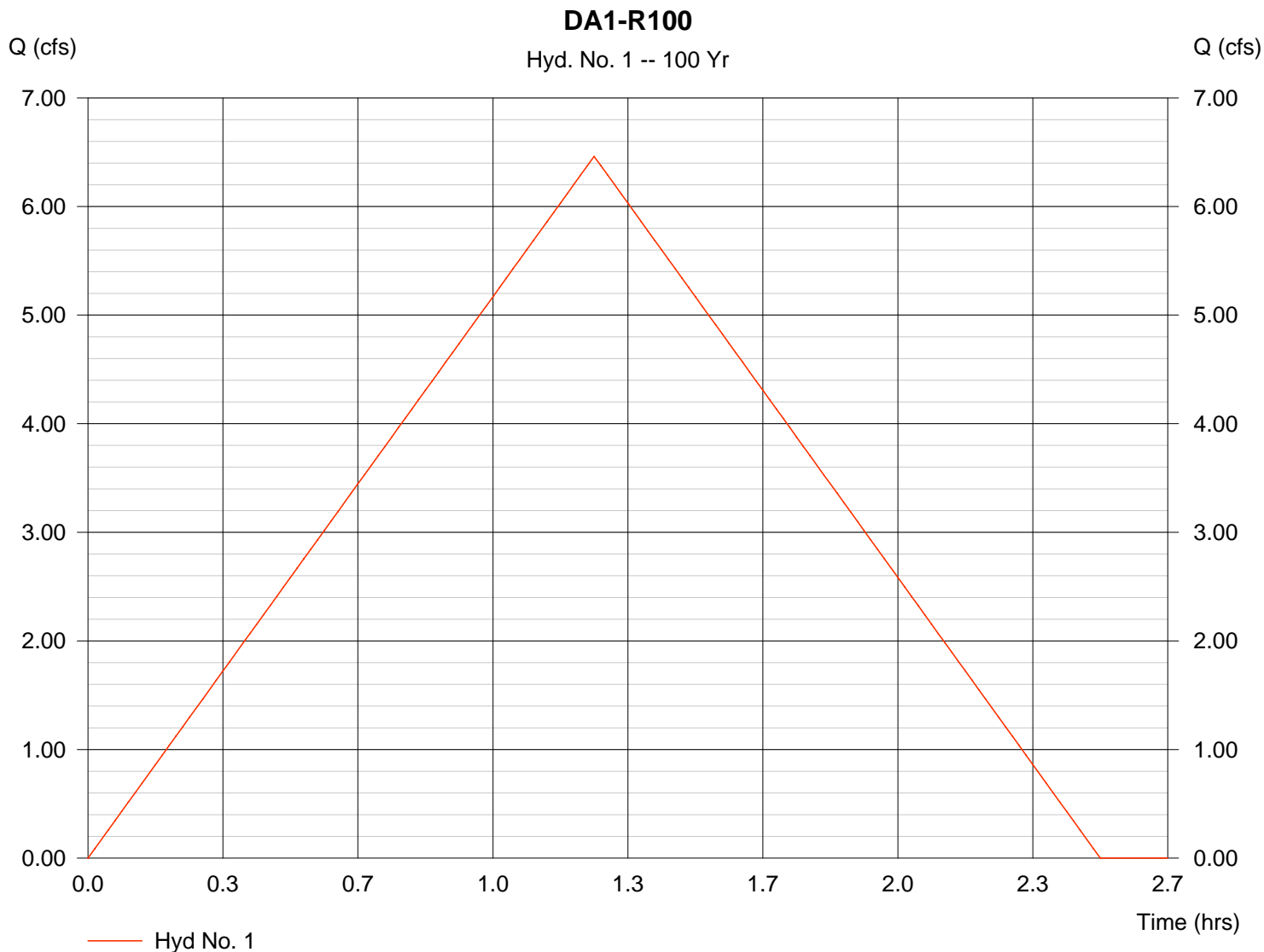
Hyd. No. 1

DA1-R100

Hydrograph type = Rational
 Storm frequency = 100 yrs
 Drainage area = 1.323 ac
 Intensity = 7.400 in/hr
 IDF Curve = SedgwickCoREV.IDF

Peak discharge = 6.462 cfs
 Time interval = 1 min
 Runoff coeff. = 0.66
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 29,079 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

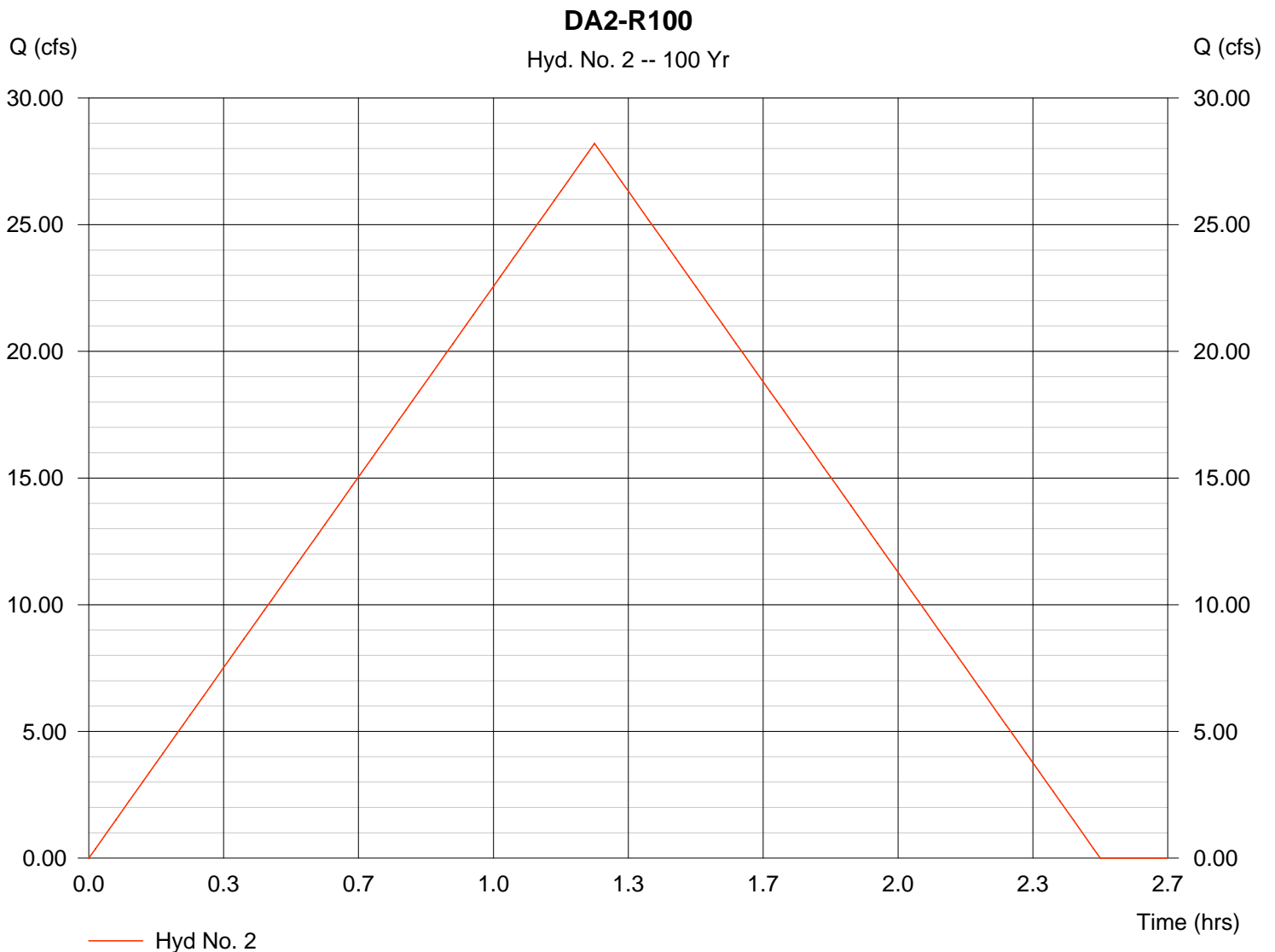
Hyd. No. 2

DA2-R100

Hydrograph type = Rational
 Storm frequency = 100 yrs
 Drainage area = 5.774 ac
 Intensity = 7.400 in/hr
 IDF Curve = SedgwickCoREV.IDF

Peak discharge = 28.20 cfs
 Time interval = 1 min
 Runoff coeff. = 0.66
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 126,909 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

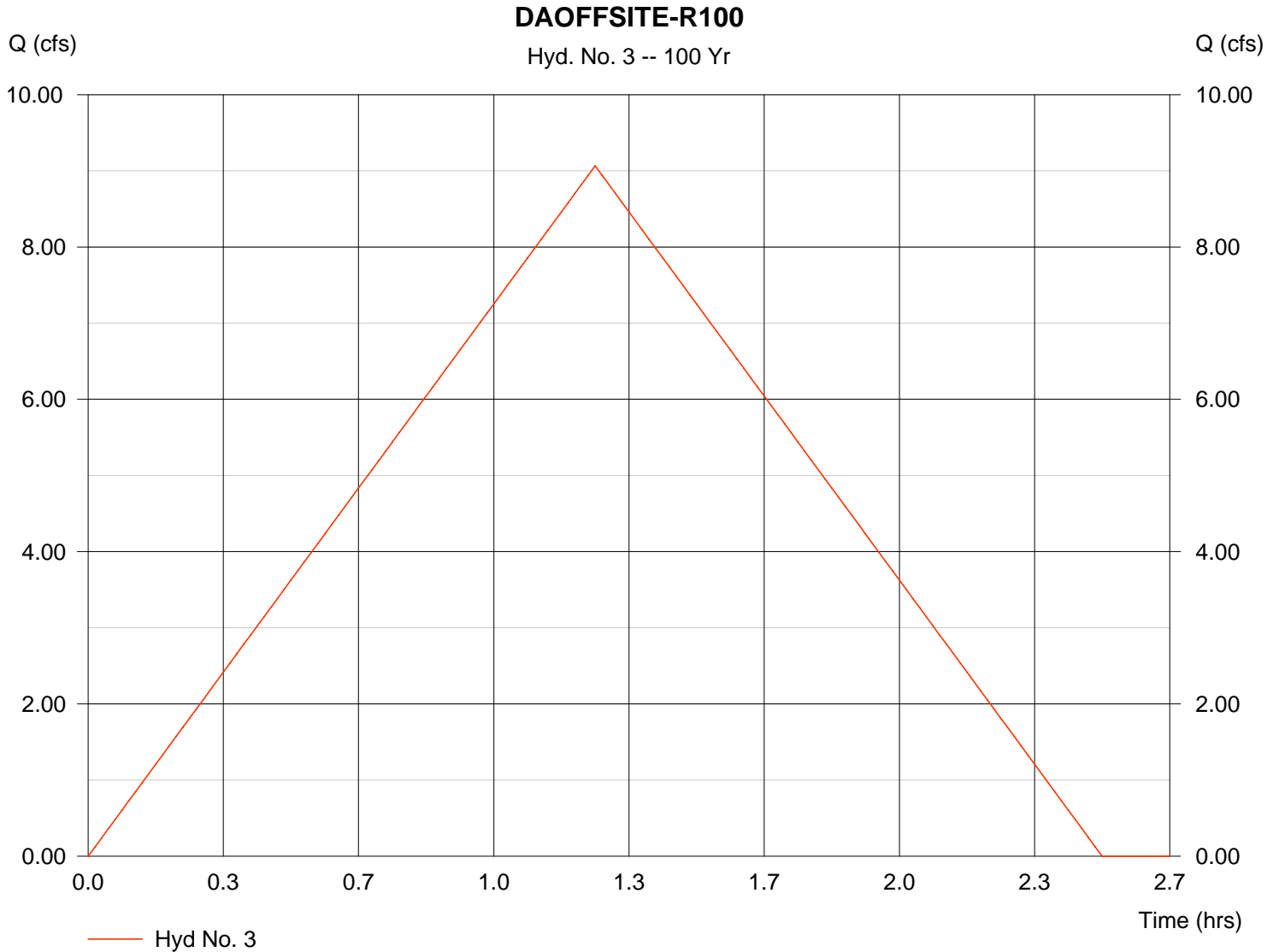
Hyd. No. 3

DAOFFSITE-R100

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 2.149 ac
Intensity = 7.400 in/hr
IDF Curve = SedgwickCoREV.IDF

Peak discharge = 9.065 cfs
Time interval = 1 min
Runoff coeff. = 0.57
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 40,793 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

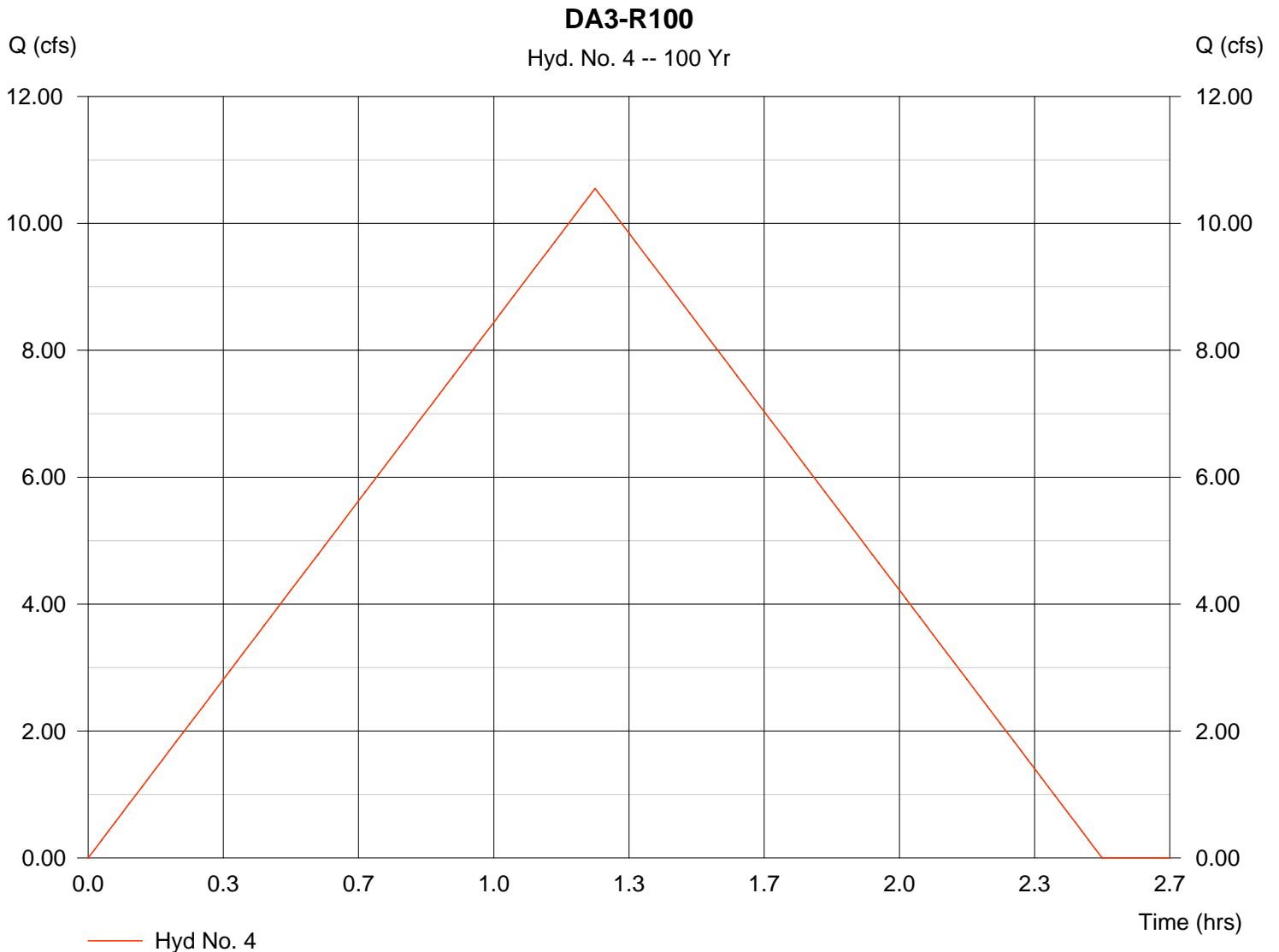
Hyd. No. 4

DA3-R100

Hydrograph type = Rational
 Storm frequency = 100 yrs
 Drainage area = 2.501 ac
 Intensity = 7.400 in/hr
 IDF Curve = SedgwickCoREV.IDF

Peak discharge = 10.55 cfs
 Time interval = 1 min
 Runoff coeff. = 0.57
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 47,474 cuft



Hydrograph Plot

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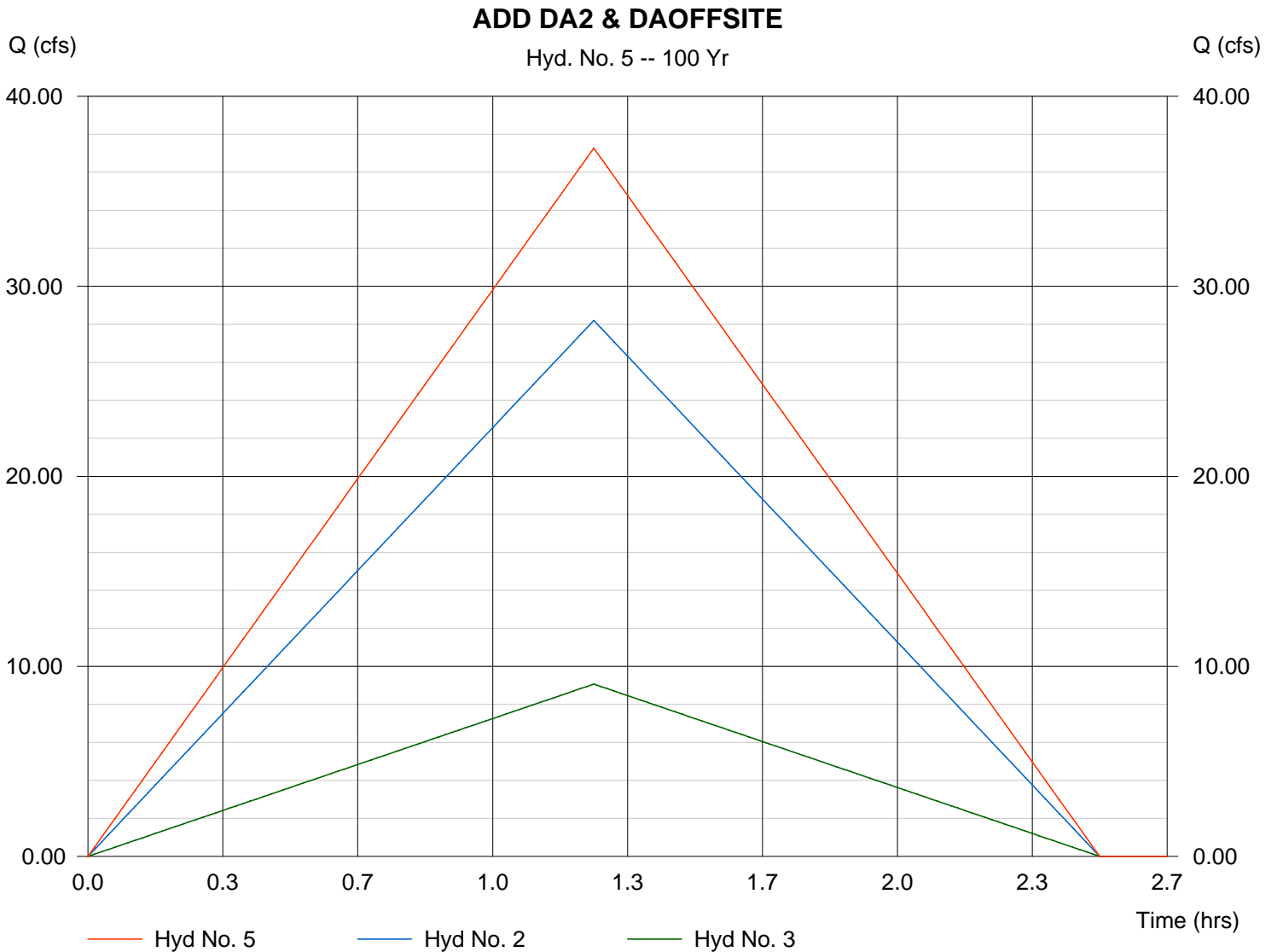
Hyd. No. 5

ADD DA2 & DAOFFSITE

Hydrograph type = Combine
Storm frequency = 100 yrs
Inflow hyds. = 2, 3

Peak discharge = 37.27 cfs
Time interval = 1 min

Hydrograph Volume = 167,701 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

Hyd. No. 6

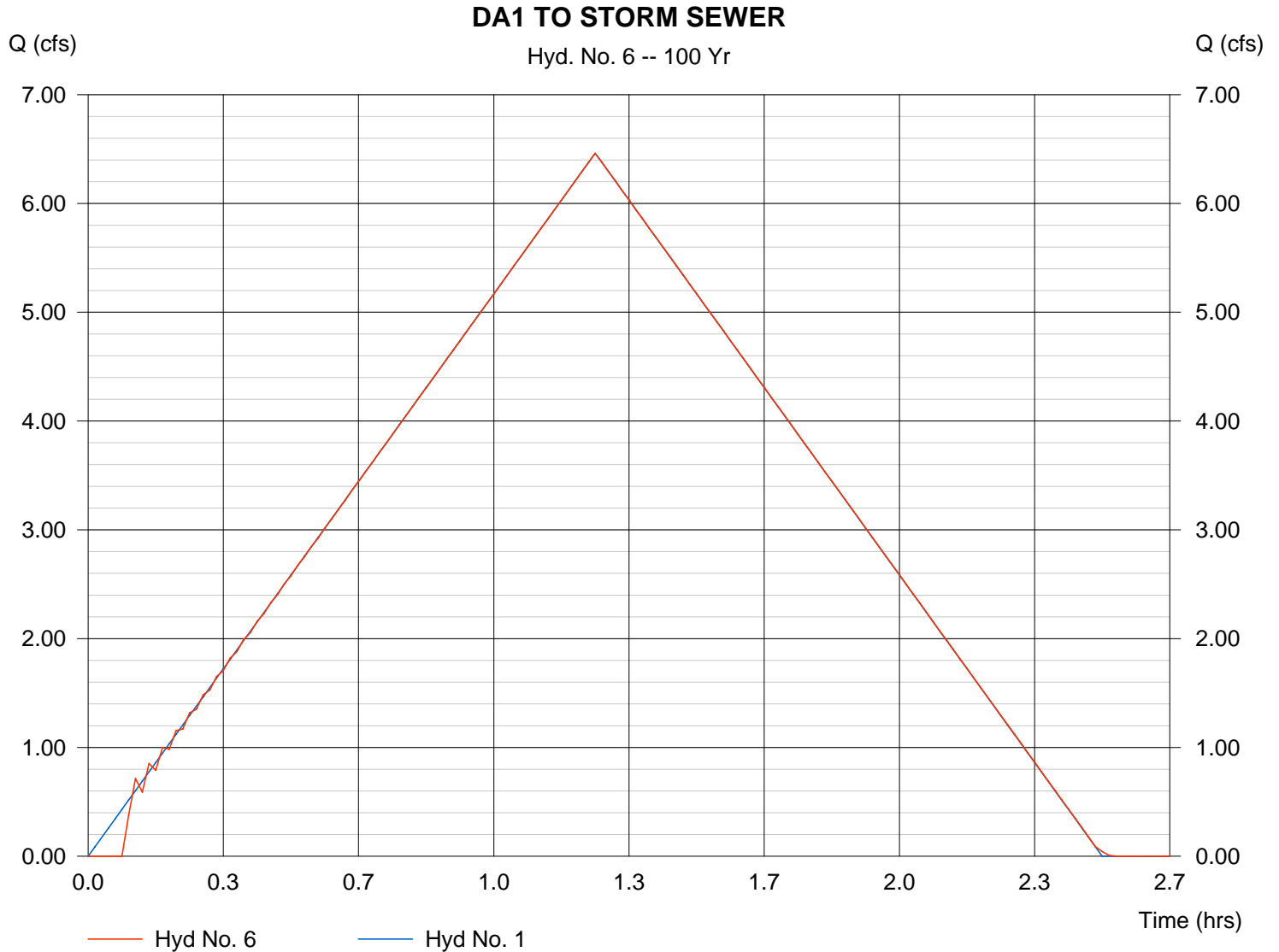
DA1 TO STORM SEWER

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 1
Reservoir name = STORM SEWER

Peak discharge = 6.460 cfs
Time interval = 1 min
Max. Elevation = 1363.06 ft
Max. Storage = 91 cuft

Storage Indication method used.

Hydrograph Volume = 29,001 cuft



Pond No. 3 - STORM SEWER

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1358.00	16	0	0
0.44	1358.44	16	7	7
1.44	1359.44	16	16	23
2.44	1360.44	16	16	39
3.44	1361.44	16	16	55
4.44	1362.44	16	16	71
5.44	1363.44	50	33	104
6.44	1364.44	8,702	4,376	4,480
7.44	1365.44	9,000	8,851	13,331

Culvert / Orifice Structures

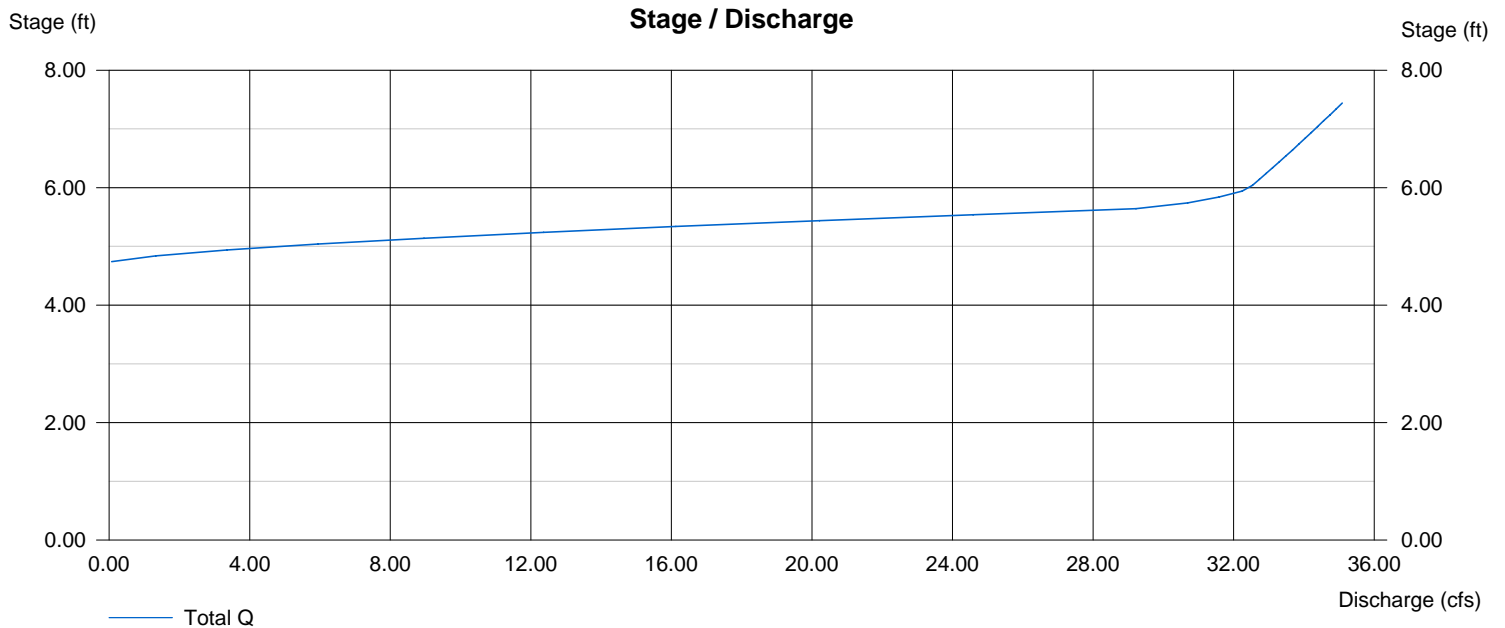
	[A]	[B]	[C]	[D]
Rise (in)	= 24.00	0.00	0.00	0.00
Span (in)	= 24.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1358.00	0.00	0.00	0.00
Length (ft)	= 302.00	0.00	0.00	0.00
Slope (%)	= 1.65	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 10.00	0.00	0.00	0.00
Crest El. (ft)	= 1362.72	0.00	0.00	0.00
Weir Coeff.	= 3.33	0.00	0.00	0.00
Weir Type	= Riser	---	---	---
Multi-Stage	= Yes	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control. Weir riser checked for orifice conditions.



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

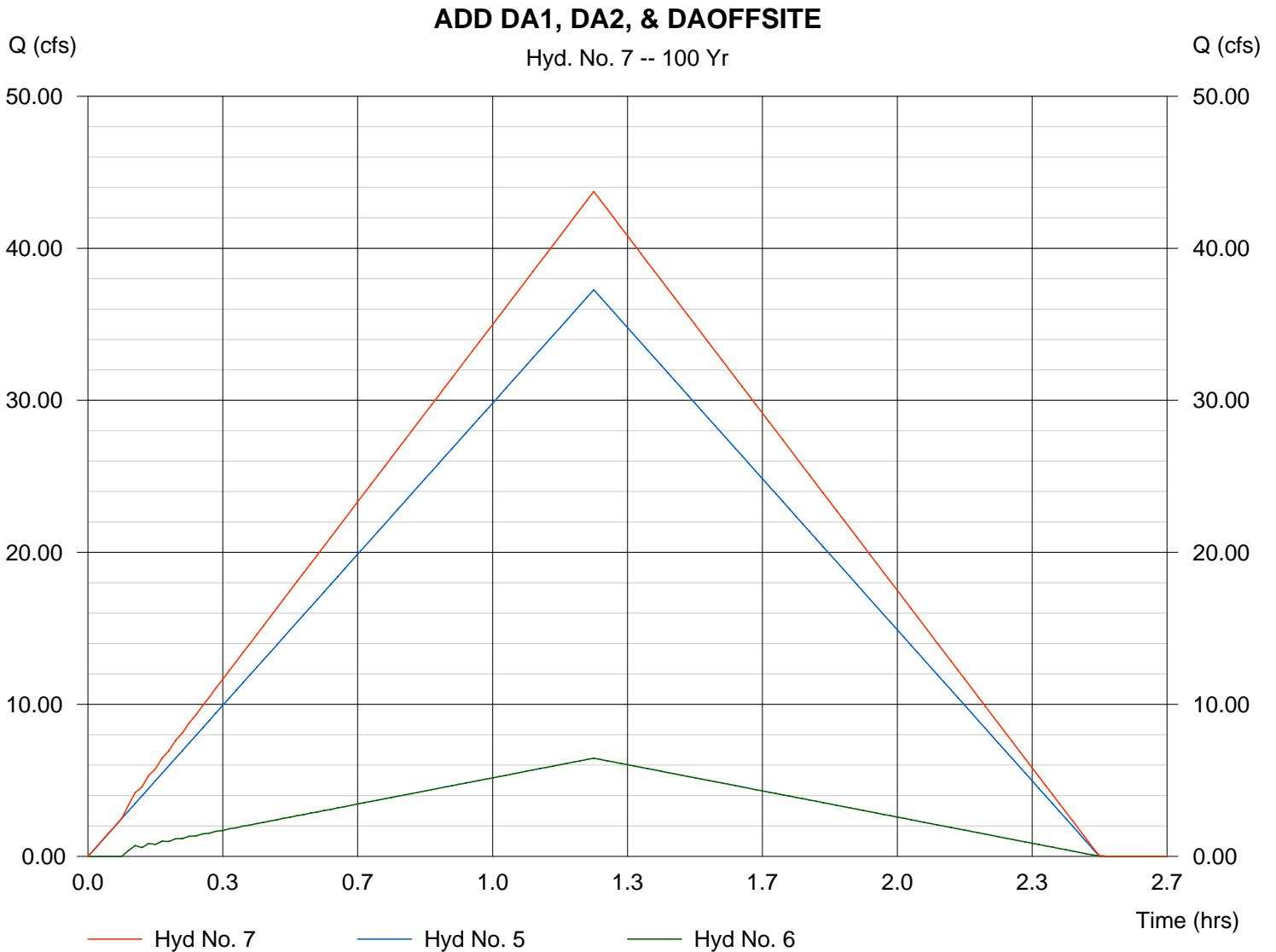
Hyd. No. 7

ADD DA1, DA2, & DAOFFSITE

Hydrograph type = Combine
Storm frequency = 100 yrs
Inflow hyds. = 5, 6

Peak discharge = 43.73 cfs
Time interval = 1 min

Hydrograph Volume = 196,702 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

Hyd. No. 8

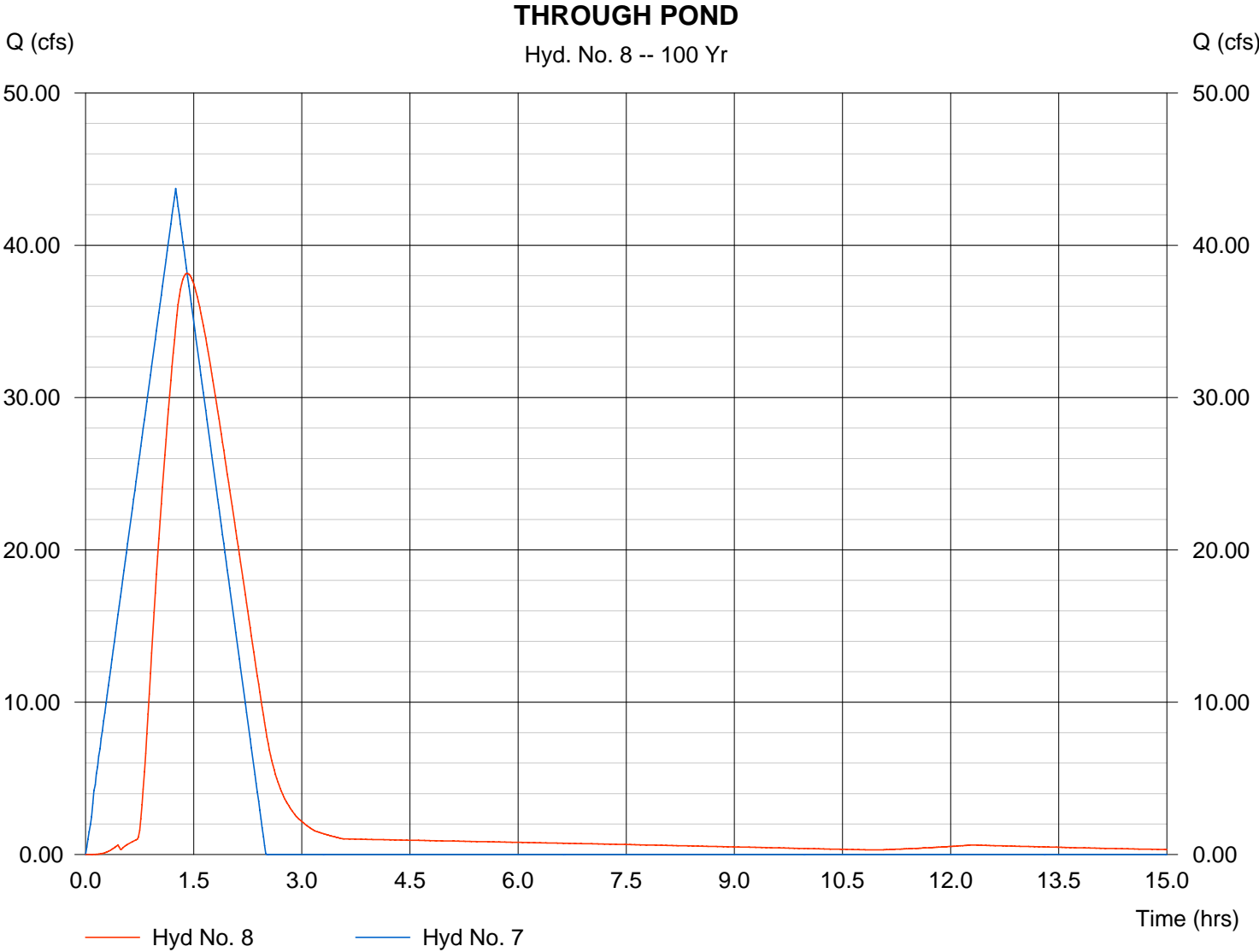
THROUGH POND

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 7
Reservoir name = PROPOSED POND

Peak discharge = 38.15 cfs
Time interval = 1 min
Max. Elevation = 1356.46 ft
Max. Storage = 65,624 cuft

Storage Indication method used.

Hydrograph Volume = 195,749 cuft



Pond No. 1 - PROPOSED POND

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1354.20	23,620	0	0
0.80	1355.00	28,470	20,836	20,836
1.20	1355.40	29,510	11,596	32,432
1.80	1356.00	31,071	18,174	50,606
2.80	1357.00	33,773	32,422	83,028

Culvert / Orifice Structures

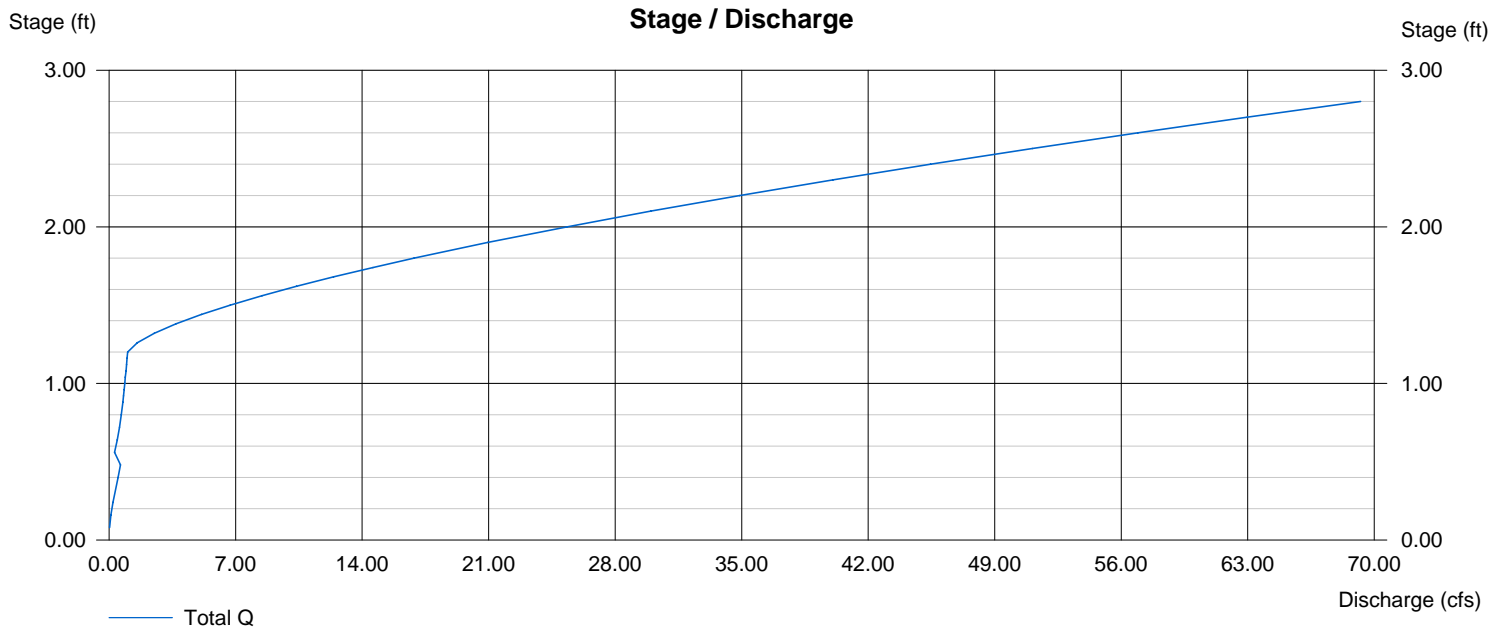
	[A]	[B]	[C]	[D]
Rise (in)	= 6.00	0.00	0.00	0.00
Span (in)	= 6.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1354.20	0.00	0.00	0.00
Length (ft)	= 2.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.82	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 10.00	0.00	0.00	0.00
Crest El. (ft)	= 1355.40	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Cipiti	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

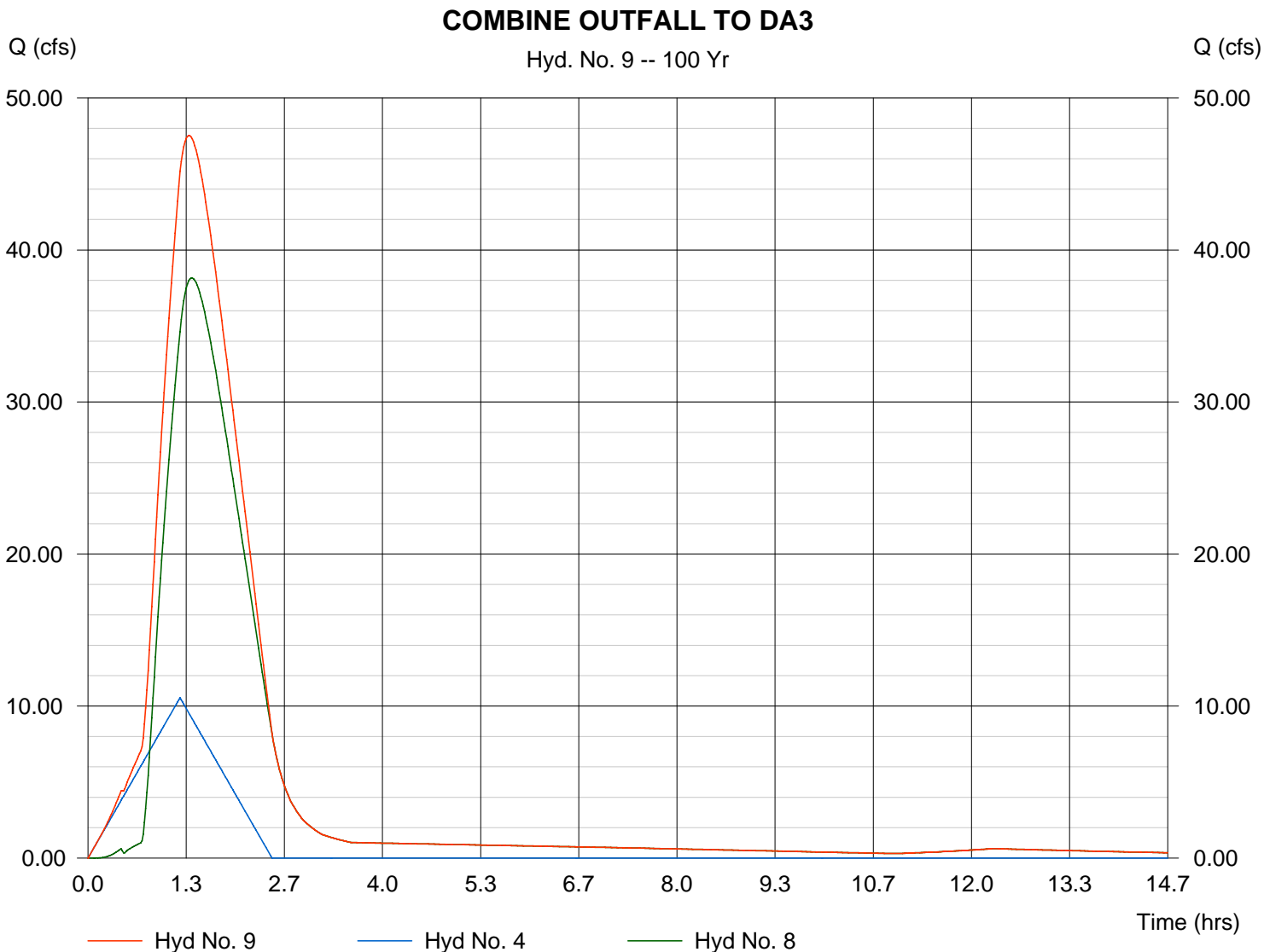
Hyd. No. 9

COMBINE OUTFALL TO DA3

Hydrograph type = Combine
 Storm frequency = 100 yrs
 Inflow hyds. = 4, 8

Peak discharge = 47.52 cfs
 Time interval = 1 min

Hydrograph Volume = 243,223 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Thursday, Dec 14 2006, 11:43 AM

Hyd. No. 10

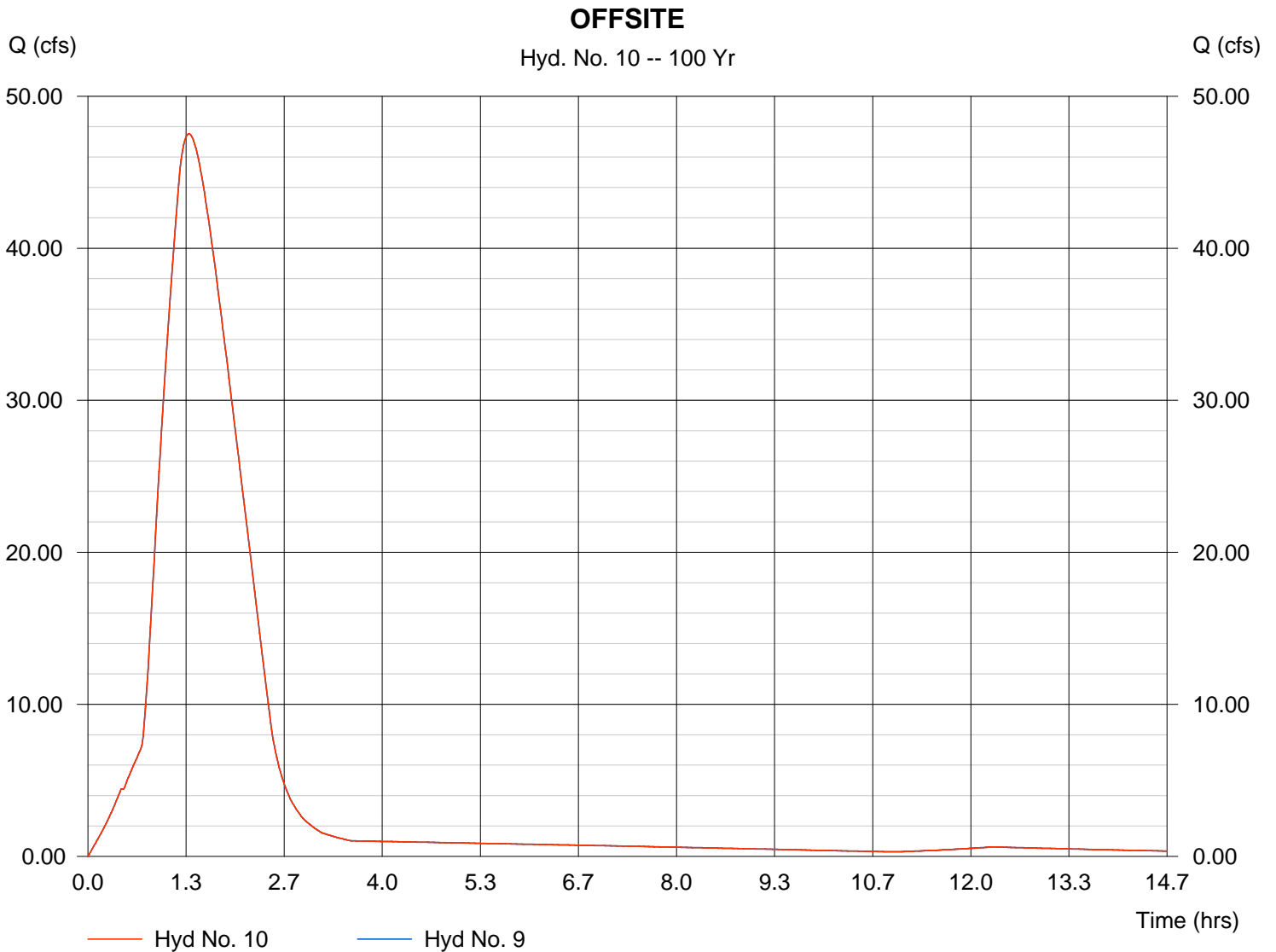
OFFSITE

Hydrograph type = Reservoir
 Storm frequency = 100 yrs
 Inflow hyd. No. = 9
 Reservoir name = To Offsite

Peak discharge = 47.52 cfs
 Time interval = 1 min
 Max. Elevation = 1350.87 ft
 Max. Storage = 2 cuft

Storage Indication method used.

Hydrograph Volume = 243,223 cuft



Pond No. 2 - To Offsite

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1348.50	01	0	0
1.00	1349.50	01	1	1
2.00	1350.50	01	1	2
3.00	1351.50	01	1	3
4.00	1352.50	01	1	4

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1348.50	0.00	0.00	0.00
Weir Coeff.	= 2.60	0.00	0.00	0.00
Weir Type	= Broad	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control. Weir riser checked for orifice conditions.

Stage / Discharge

