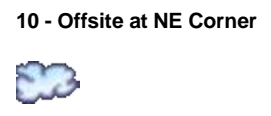
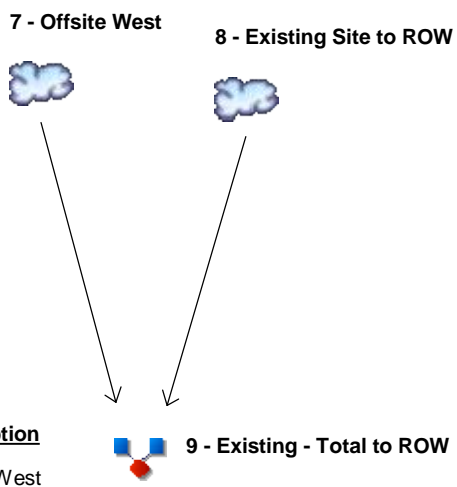
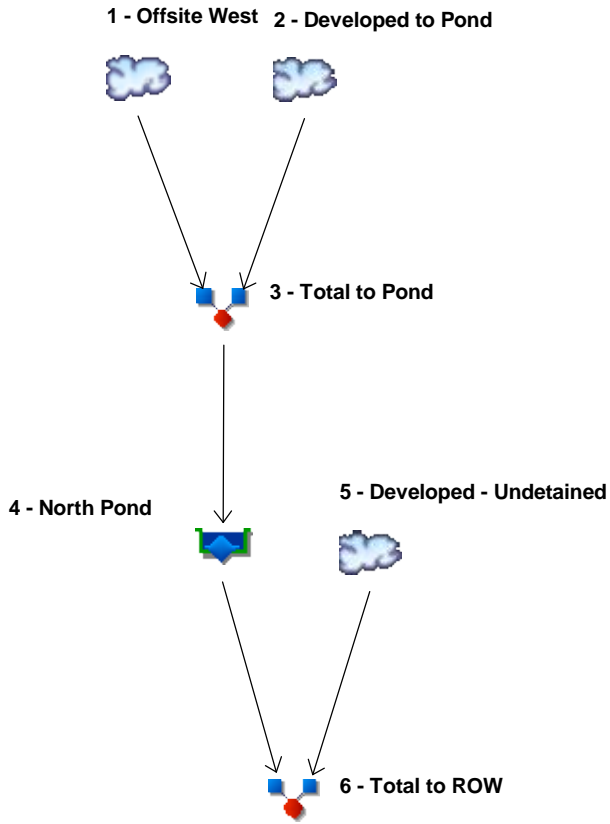


Watershed Model Schematic

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8



Legend

Hyd.	Origin	Description
1	SCS Runoff	Offsite West
2	SCS Runoff	Developed to Pond
3	Combine	Total to Pond
4	Reservoir	North Pond
5	SCS Runoff	Developed - Undetained
6	Combine	Total to ROW
7	SCS Runoff	Offsite West
8	SCS Runoff	Existing Site to ROW
9	Combine	Existing - Total to ROW
10	SCS Runoff	Offsite at NE Corner

Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	-----	39.42	59.98	3.376	91.33	114.08	143.96	170.90	201.40	Offsite West
2	SCS Runoff	-----	40.64	54.66	10.16	74.72	88.71	106.62	122.45	140.19	Developed to Pond
3	Combine	1, 2	59.96	85.79	11.11	124.37	152.06	188.13	220.45	256.98	Total to Pond
4	Reservoir	3	5.775	27.67	0.377	67.37	89.17	111.39	128.63	155.55	North Pond
5	SCS Runoff	-----	24.93	33.20	6.668	44.99	53.20	63.70	72.99	83.39	Developed - Undetained
6	Combine	4, 5	25.34	33.77	6.690	71.10	93.83	117.07	138.16	171.20	Total to ROW
7	SCS Runoff	-----	39.42	59.98	3.376	91.33	114.08	143.96	170.90	201.40	Offsite West
8	SCS Runoff	-----	20.78	31.64	1.785	48.22	60.26	76.02	90.25	106.38	Existing Site to ROW
9	Combine	7, 8	60.02	91.44	5.156	139.42	174.25	219.88	260.90	307.33	Existing - Total to ROW
10	SCS Runoff	-----	31.27	47.57	2.678	72.43	90.48	114.18	135.54	159.73	Offsite at NE Corner

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description	
1	SCS Runoff	39.42	2	744	232,033	-----	-----	-----	Offsite West	
2	SCS Runoff	40.64	2	722	114,757	-----	-----	-----	Developed to Pond	
3	Combine	59.96	2	724	346,789	1, 2	-----	-----	Total to Pond	
4	Reservoir	5.775	2	872	306,071	3	1385.37	220,781	North Pond	
5	SCS Runoff	24.93	2	722	70,739	-----	-----	-----	Developed - Undetained	
6	Combine	25.34	2	722	376,810	4, 5	-----	-----	Total to ROW	
7	SCS Runoff	39.42	2	744	232,033	-----	-----	-----	Offsite West	
8	SCS Runoff	20.78	2	746	129,018	-----	-----	-----	Existing Site to ROW	
9	Combine	60.02	2	744	361,051	7, 8	-----	-----	Existing - Total to ROW	
10	SCS Runoff	31.27	2	744	184,026	-----	-----	-----	Offsite at NE Corner	
Site Drain.gpw					Return Period: 1 Year			Thursday, Jan 26, 2012		

Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

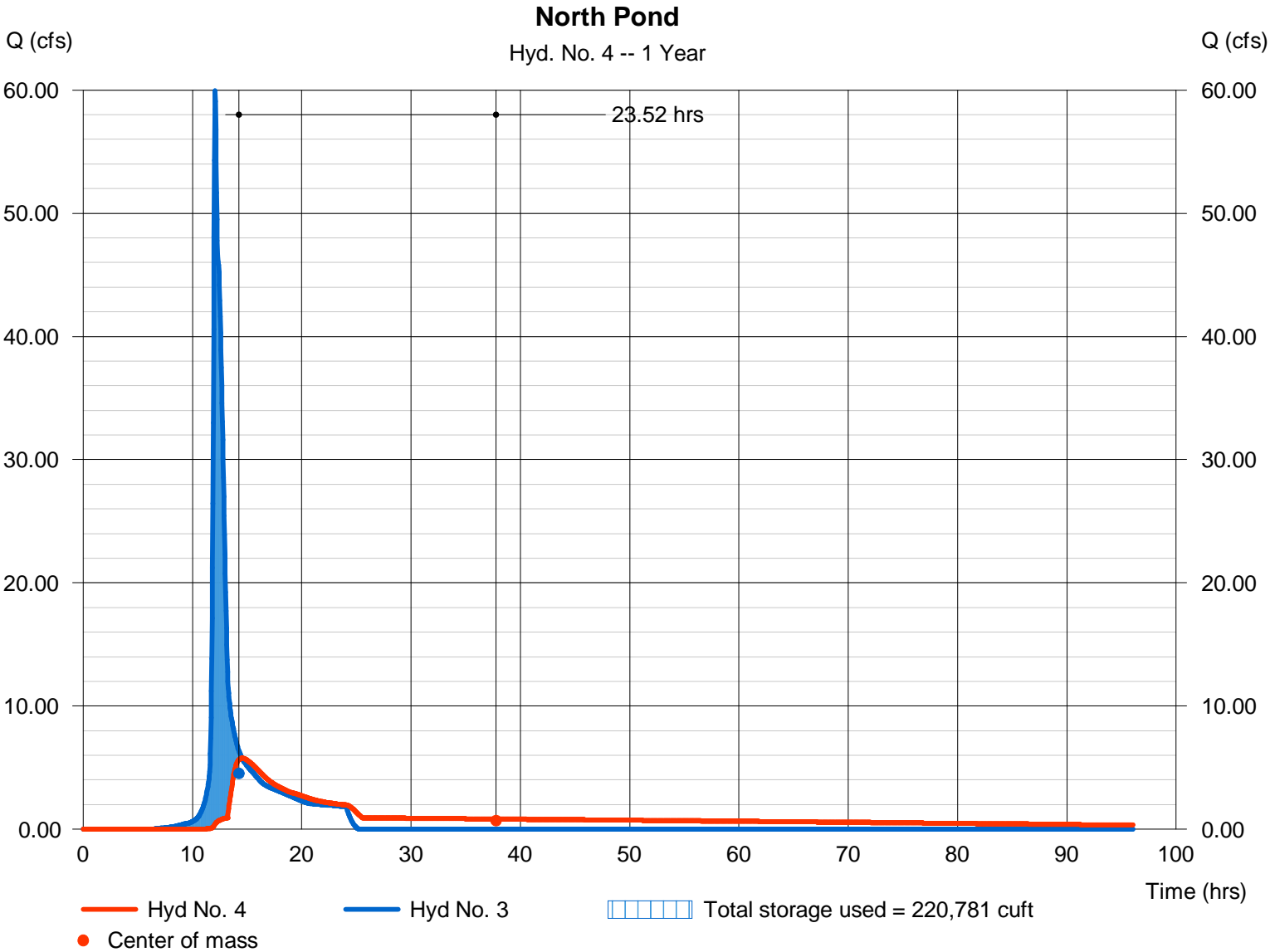
Thursday, Jan 26, 2012

Hyd. No. 4

North Pond

Hydrograph type	= Reservoir	Peak discharge	= 5.775 cfs
Storm frequency	= 1 yrs	Time to peak	= 14.53 hrs
Time interval	= 2 min	Hyd. volume	= 306,071 cuft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1385.37 ft
Reservoir name	= North Pond	Max. Storage	= 220,781 cuft

Storage Indication method used.



Pond No. 1 - North Pond

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Beginning Elevation = 1383.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1383.00	82,000	0	0
1.00	1384.00	91,500	86,698	86,698
2.00	1385.00	99,500	95,463	182,161
3.00	1386.00	108,000	103,711	285,871
4.00	1387.00	117,000	112,459	398,330
5.00	1388.00	127,000	121,954	520,283
6.00	1389.00	130,000	128,484	648,768

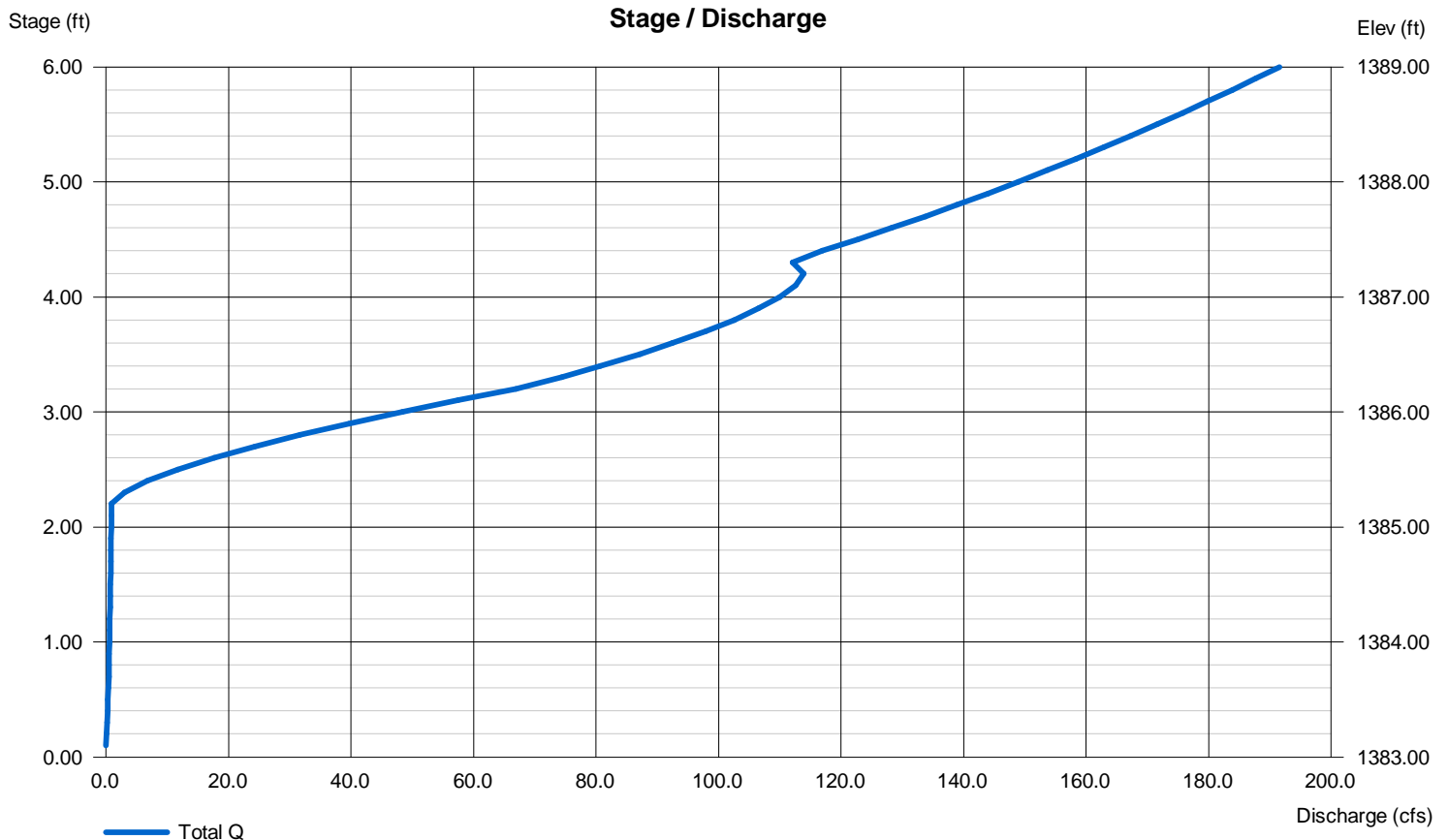
Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 48.00	5.00	Inactive	0.00
Span (in)	= 48.00	5.00	0.00	0.00
No. Barrels	= 2	1	1	0
Invert El. (ft)	= 1383.00	1383.00	0.00	0.00
Length (ft)	= 300.00	0.00	0.00	0.00
Slope (%)	= 0.30	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	Yes	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 20.00	Inactive	0.00	0.00
Crest El. (ft)	= 1385.20	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= 1	Rect	---	---
Multi-Stage	= Yes	Yes	No	No
Exfil.(in/hr)	= 0.000 (by Wet area)			
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	59.98	2	744	344,520	-----	-----	-----	Offsite West
2	SCS Runoff	54.66	2	722	155,951	-----	-----	-----	Developed to Pond
3	Combine	85.79	2	724	500,471	1, 2	-----	-----	Total to Pond
4	Reservoir	27.67	2	782	459,267	3	1385.75	259,435	North Pond
5	SCS Runoff	33.20	2	722	95,333	-----	-----	-----	Developed - Undetained
6	Combine	33.77	2	722	554,599	4, 5	-----	-----	Total to ROW
7	SCS Runoff	59.98	2	744	344,520	-----	-----	-----	Offsite West
8	SCS Runoff	31.64	2	746	191,565	-----	-----	-----	Existing Site to ROW
9	Combine	91.44	2	744	536,085	7, 8	-----	-----	Existing - Total to ROW
10	SCS Runoff	47.57	2	744	273,240	-----	-----	-----	Offsite at NE Corner
Site Drain.gpw					Return Period: 2 Year			Thursday, Jan 26, 2012	

Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

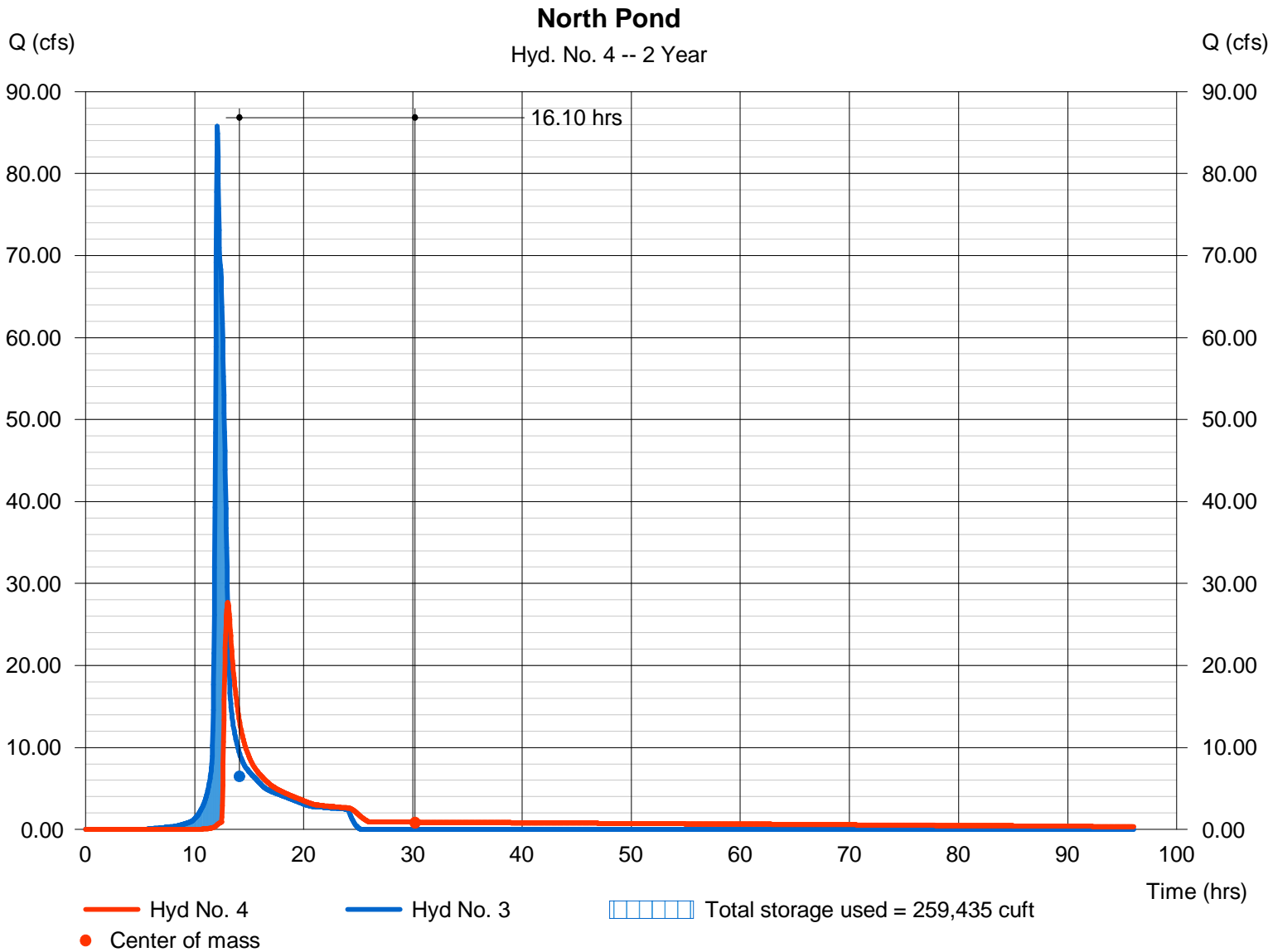
Thursday, Jan 26, 2012

Hyd. No. 4

North Pond

Hydrograph type	= Reservoir	Peak discharge	= 27.67 cfs
Storm frequency	= 2 yrs	Time to peak	= 13.03 hrs
Time interval	= 2 min	Hyd. volume	= 459,267 cuft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1385.75 ft
Reservoir name	= North Pond	Max. Storage	= 259,435 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description	
1	SCS Runoff	3.376	2	750	32,215	-----	-----	-----	Offsite West	
2	SCS Runoff	10.16	2	722	29,157	-----	-----	-----	Developed to Pond	
3	Combine	11.11	2	724	61,372	1, 2	-----	-----	Total to Pond	
4	Reservoir	0.377	2	1450	51,751	3	1383.54	46,862	North Pond	
5	SCS Runoff	6.668	2	722	18,924	-----	-----	-----	Developed - Undetained	
6	Combine	6.690	2	722	70,675	4, 5	-----	-----	Total to ROW	
7	SCS Runoff	3.376	2	750	32,215	-----	-----	-----	Offsite West	
8	SCS Runoff	1.785	2	754	17,913	-----	-----	-----	Existing Site to ROW	
9	Combine	5.156	2	750	50,128	7, 8	-----	-----	Existing - Total to ROW	
10	SCS Runoff	2.678	2	750	25,550	-----	-----	-----	Offsite at NE Corner	
Site Drain.gpw					Return Period: 3 Year			Thursday, Jan 26, 2012		

Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

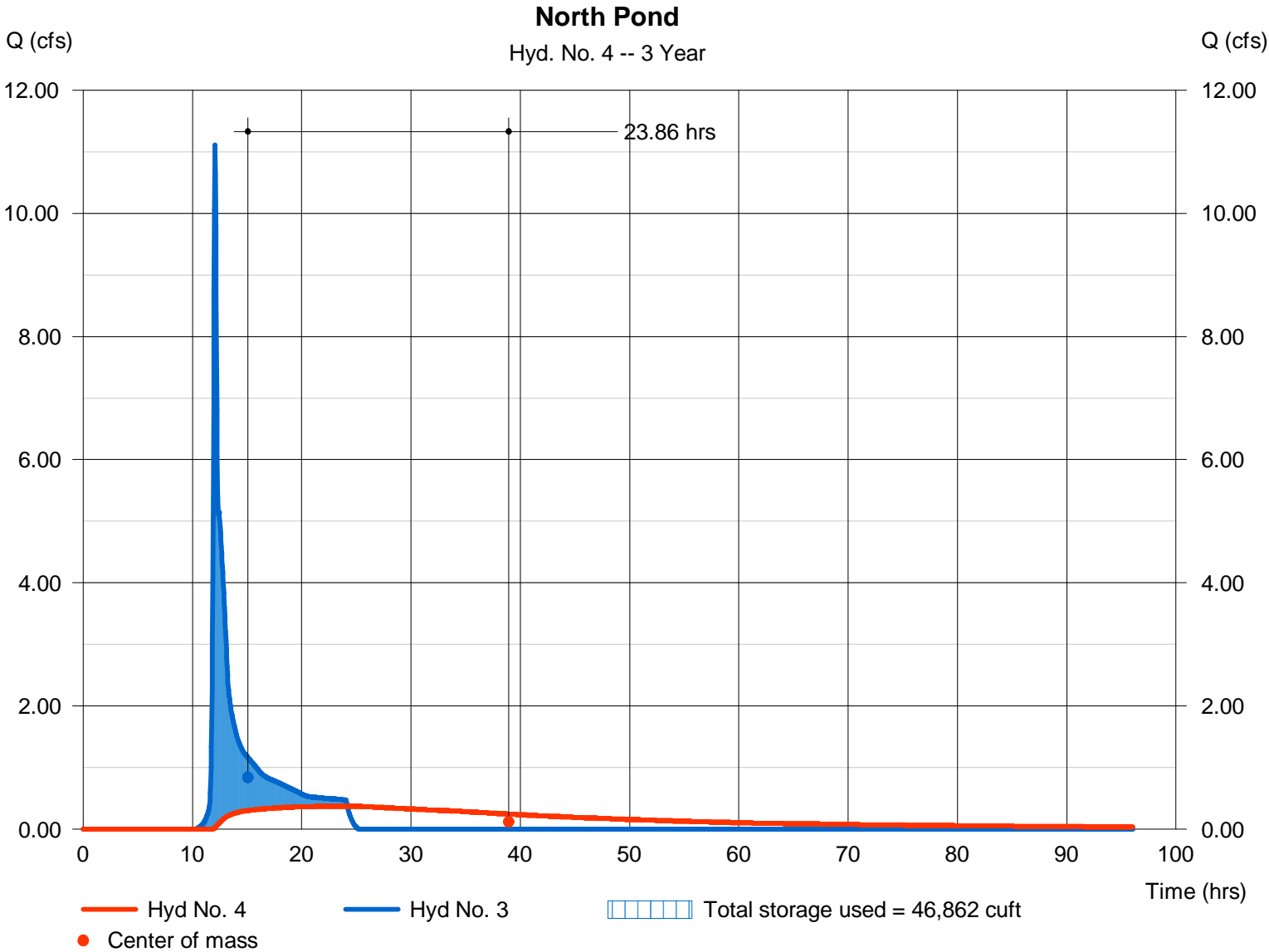
Thursday, Jan 26, 2012

Hyd. No. 4

North Pond

Hydrograph type	= Reservoir	Peak discharge	= 0.377 cfs
Storm frequency	= 3 yrs	Time to peak	= 24.17 hrs
Time interval	= 2 min	Hyd. volume	= 51,751 cuft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1383.54 ft
Reservoir name	= North Pond	Max. Storage	= 46,862 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	91.33	2	744	518,252	-----	-----	-----	Offsite West
2	SCS Runoff	74.72	2	722	216,332	-----	-----	-----	Developed to Pond
3	Combine	124.37	2	724	734,585	1, 2	-----	-----	Total to Pond
4	Reservoir	67.37	2	766	692,975	3	1386.21	309,007	North Pond
5	SCS Runoff	44.99	2	722	131,233	-----	-----	-----	Developed - Undetained
6	Combine	71.10	2	766	824,208	4, 5	-----	-----	Total to ROW
7	SCS Runoff	91.33	2	744	518,252	-----	-----	-----	Offsite West
8	SCS Runoff	48.22	2	746	288,166	-----	-----	-----	Existing Site to ROW
9	Combine	139.42	2	744	806,418	7, 8	-----	-----	Existing - Total to ROW
10	SCS Runoff	72.43	2	744	411,028	-----	-----	-----	Offsite at NE Corner
Site Drain.gpw					Return Period: 5 Year			Thursday, Jan 26, 2012	

Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

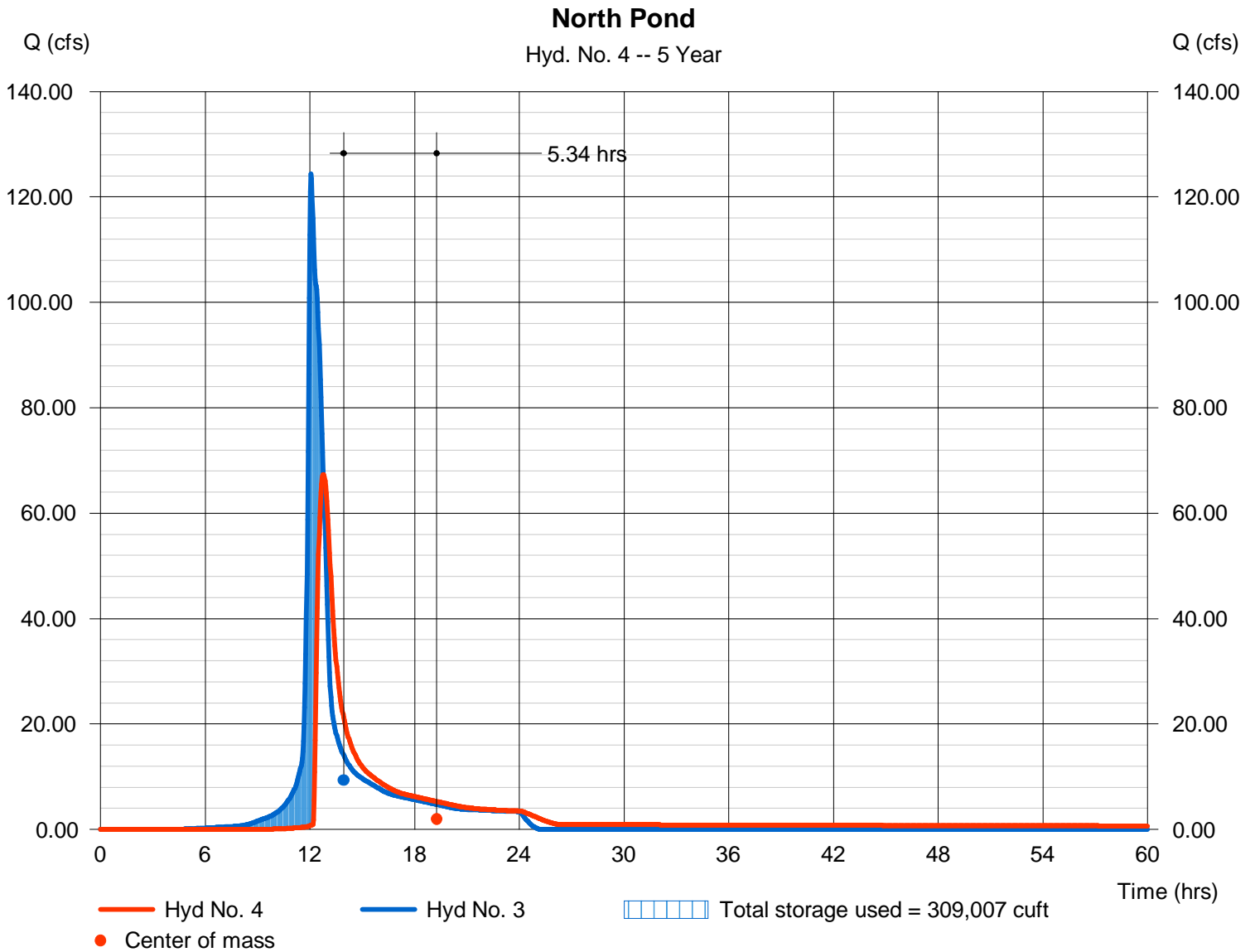
Thursday, Jan 26, 2012

Hyd. No. 4

North Pond

Hydrograph type	= Reservoir	Peak discharge	= 67.37 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.77 hrs
Time interval	= 2 min	Hyd. volume	= 692,975 cuft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1386.21 ft
Reservoir name	= North Pond	Max. Storage	= 309,007 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	114.08	2	744	645,948	-----	-----	-----	Offsite West
2	SCS Runoff	88.71	2	722	259,249	-----	-----	-----	Developed to Pond
3	Combine	152.06	2	724	905,198	1, 2	-----	-----	Total to Pond
4	Reservoir	89.17	2	764	863,416	3	1386.54	346,327	North Pond
5	SCS Runoff	53.20	2	722	156,684	-----	-----	-----	Developed - Undetained
6	Combine	93.83	2	762	1,020,100	4, 5	-----	-----	Total to ROW
7	SCS Runoff	114.08	2	744	645,948	-----	-----	-----	Offsite West
8	SCS Runoff	60.26	2	746	359,169	-----	-----	-----	Existing Site to ROW
9	Combine	174.25	2	744	1,005,117	7, 8	-----	-----	Existing - Total to ROW
10	SCS Runoff	90.48	2	744	512,304	-----	-----	-----	Offsite at NE Corner
Site Drain.gpw					Return Period: 10 Year			Thursday, Jan 26, 2012	

Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

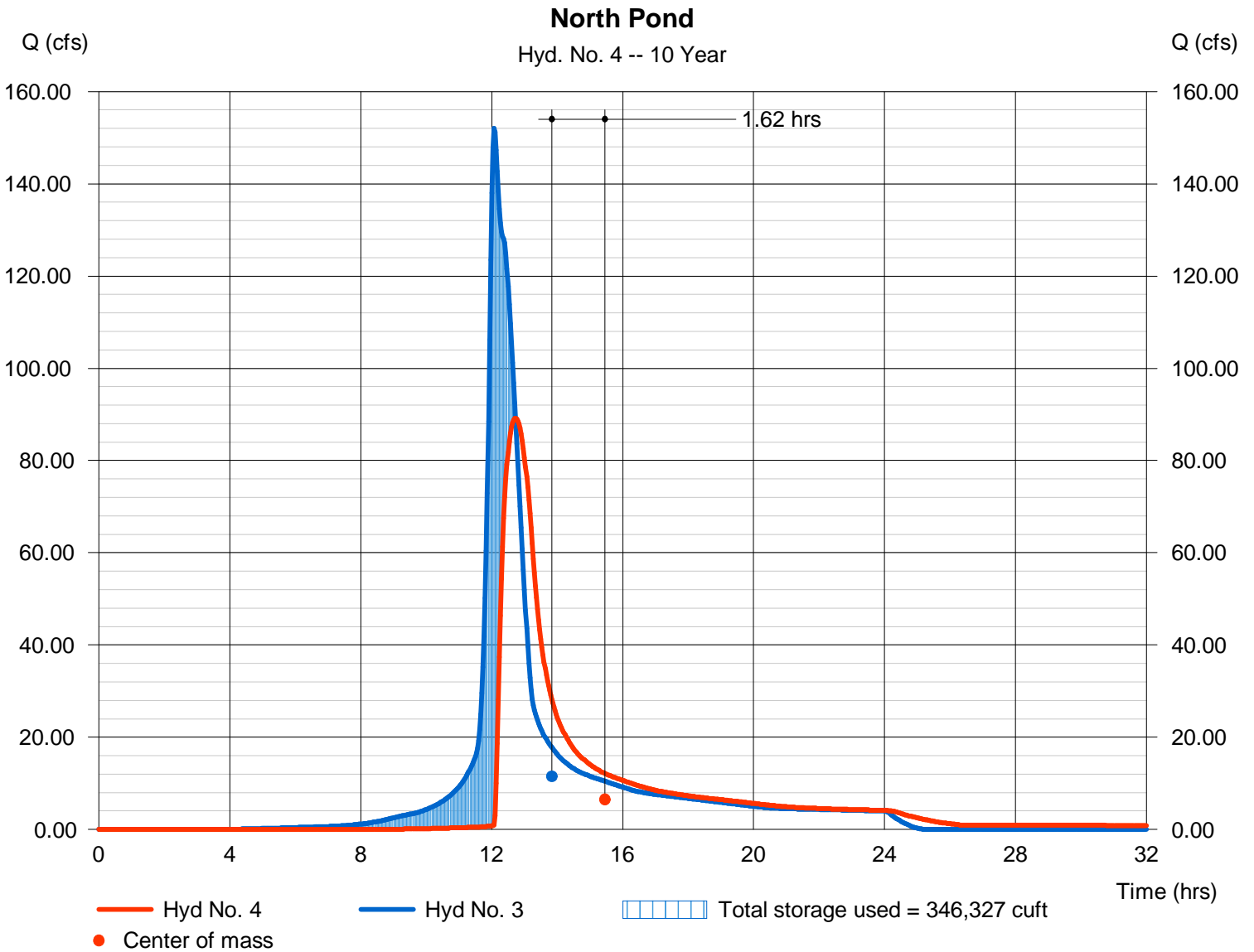
Thursday, Jan 26, 2012

Hyd. No. 4

North Pond

Hydrograph type	= Reservoir	Peak discharge	= 89.17 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.73 hrs
Time interval	= 2 min	Hyd. volume	= 863,416 cuft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1386.54 ft
Reservoir name	= North Pond	Max. Storage	= 346,327 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	143.96	2	742	815,128	-----	-----	-----	Offsite West
2	SCS Runoff	106.62	2	722	314,921	-----	-----	-----	Developed to Pond
3	Combine	188.13	2	724	1,130,050	1, 2	-----	-----	Total to Pond
4	Reservoir	111.39	2	764	1,088,090	3	1387.06	404,994	North Pond
5	SCS Runoff	63.70	2	722	189,648	-----	-----	-----	Developed - Undetained
6	Combine	117.07	2	758	1,277,738	4, 5	-----	-----	Total to ROW
7	SCS Runoff	143.96	2	742	815,128	-----	-----	-----	Offsite West
8	SCS Runoff	76.02	2	746	453,239	-----	-----	-----	Existing Site to ROW
9	Combine	219.88	2	744	1,268,367	7, 8	-----	-----	Existing - Total to ROW
10	SCS Runoff	114.18	2	742	646,481	-----	-----	-----	Offsite at NE Corner
Site Drain.gpw					Return Period: 25 Year			Thursday, Jan 26, 2012	

Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

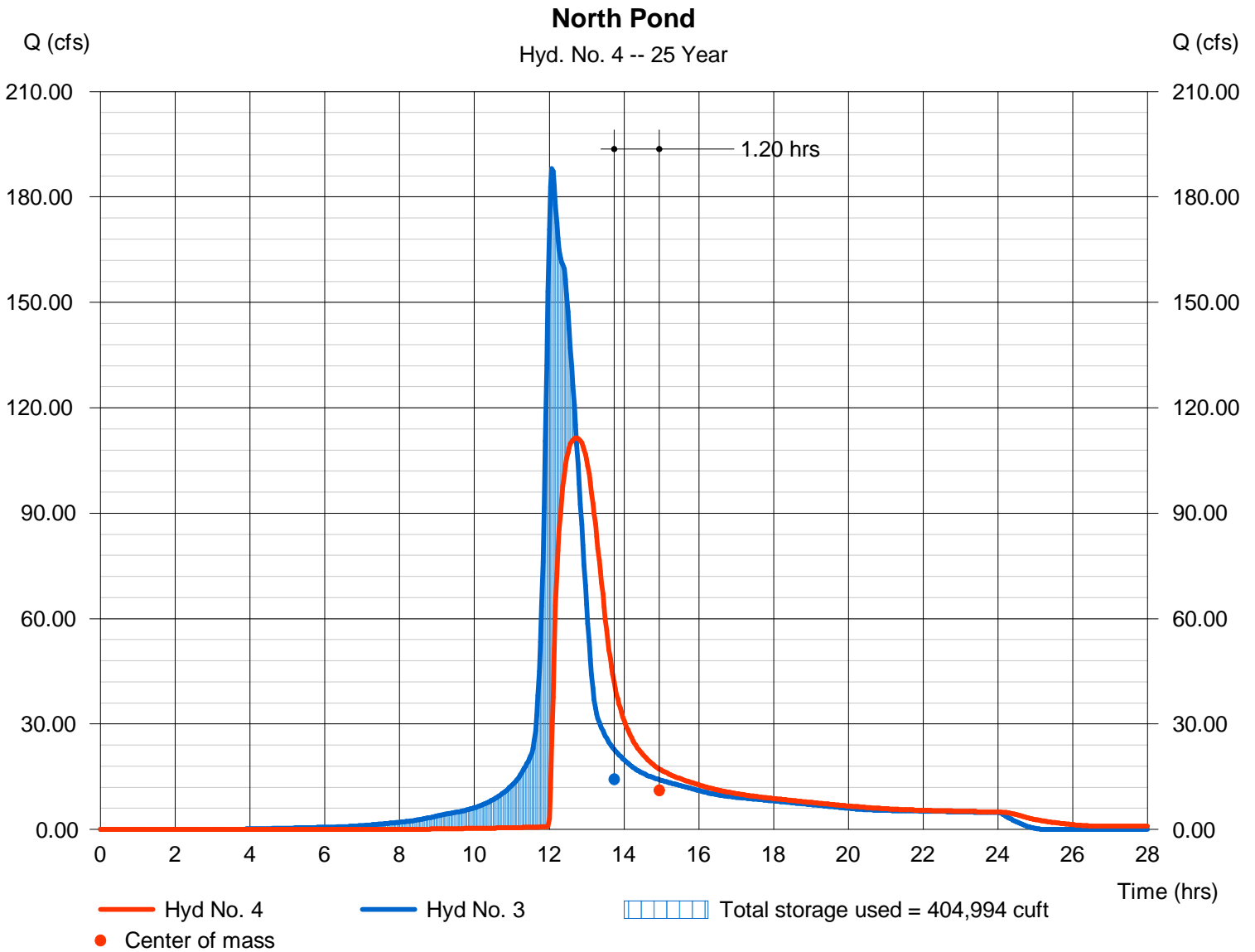
Thursday, Jan 26, 2012

Hyd. No. 4

North Pond

Hydrograph type	= Reservoir	Peak discharge	= 111.39 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.73 hrs
Time interval	= 2 min	Hyd. volume	= 1,088,090 cuft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1387.06 ft
Reservoir name	= North Pond	Max. Storage	= 404,994 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	170.90	2	742	968,957	-----	-----	-----	Offsite West
2	SCS Runoff	122.45	2	722	364,731	-----	-----	-----	Developed to Pond
3	Combine	220.45	2	724	1,333,688	1, 2	-----	-----	Total to Pond
4	Reservoir	128.63	2	764	1,291,597	3	1387.61	472,235	North Pond
5	SCS Runoff	72.99	2	722	219,107	-----	-----	-----	Developed - Undetained
6	Combine	138.16	2	728	1,510,704	4, 5	-----	-----	Total to ROW
7	SCS Runoff	170.90	2	742	968,957	-----	-----	-----	Offsite West
8	SCS Runoff	90.25	2	744	538,773	-----	-----	-----	Existing Site to ROW
9	Combine	260.90	2	744	1,507,731	7, 8	-----	-----	Existing - Total to ROW
10	SCS Runoff	135.54	2	742	768,483	-----	-----	-----	Offsite at NE Corner
Site Drain.gpw					Return Period: 50 Year			Thursday, Jan 26, 2012	

Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

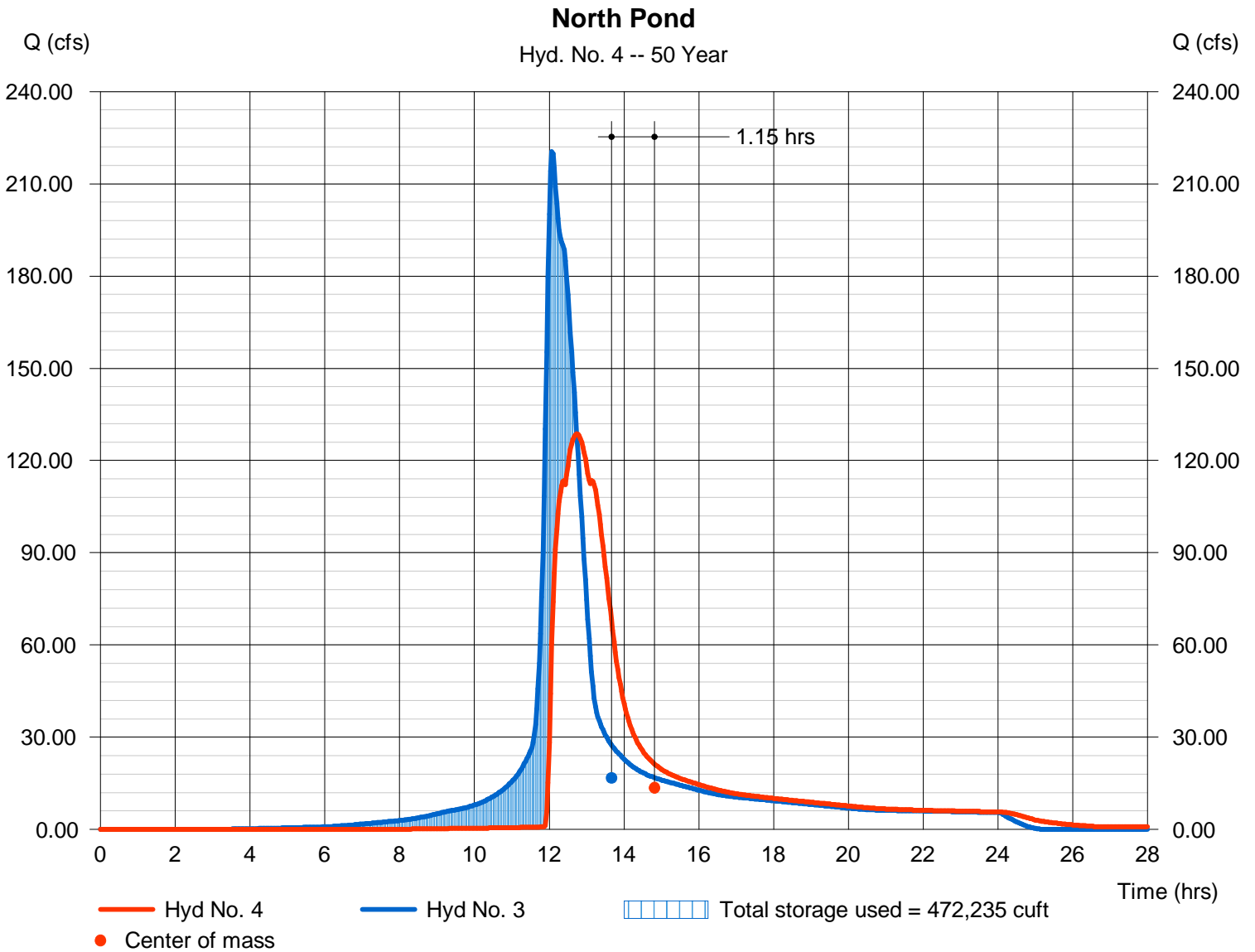
Thursday, Jan 26, 2012

Hyd. No. 4

North Pond

Hydrograph type	= Reservoir	Peak discharge	= 128.63 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.73 hrs
Time interval	= 2 min	Hyd. volume	= 1,291,597 cuft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1387.61 ft
Reservoir name	= North Pond	Max. Storage	= 472,235 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	201.40	2	742	1,144,865	-----	-----	-----	Offsite West
2	SCS Runoff	140.19	2	722	421,020	-----	-----	-----	Developed to Pond
3	Combine	256.98	2	724	1,565,886	1, 2	-----	-----	Total to Pond
4	Reservoir	155.55	2	762	1,523,669	3	1388.14	538,114	North Pond
5	SCS Runoff	83.39	2	722	252,372	-----	-----	-----	Developed - Undetained
6	Combine	171.20	2	726	1,776,041	4, 5	-----	-----	Total to ROW
7	SCS Runoff	201.40	2	742	1,144,865	-----	-----	-----	Offsite West
8	SCS Runoff	106.38	2	744	636,585	-----	-----	-----	Existing Site to ROW
9	Combine	307.33	2	744	1,781,449	7, 8	-----	-----	Existing - Total to ROW
10	SCS Runoff	159.73	2	742	907,997	-----	-----	-----	Offsite at NE Corner
Site Drain.gpw					Return Period: 100 Year			Thursday, Jan 26, 2012	

Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

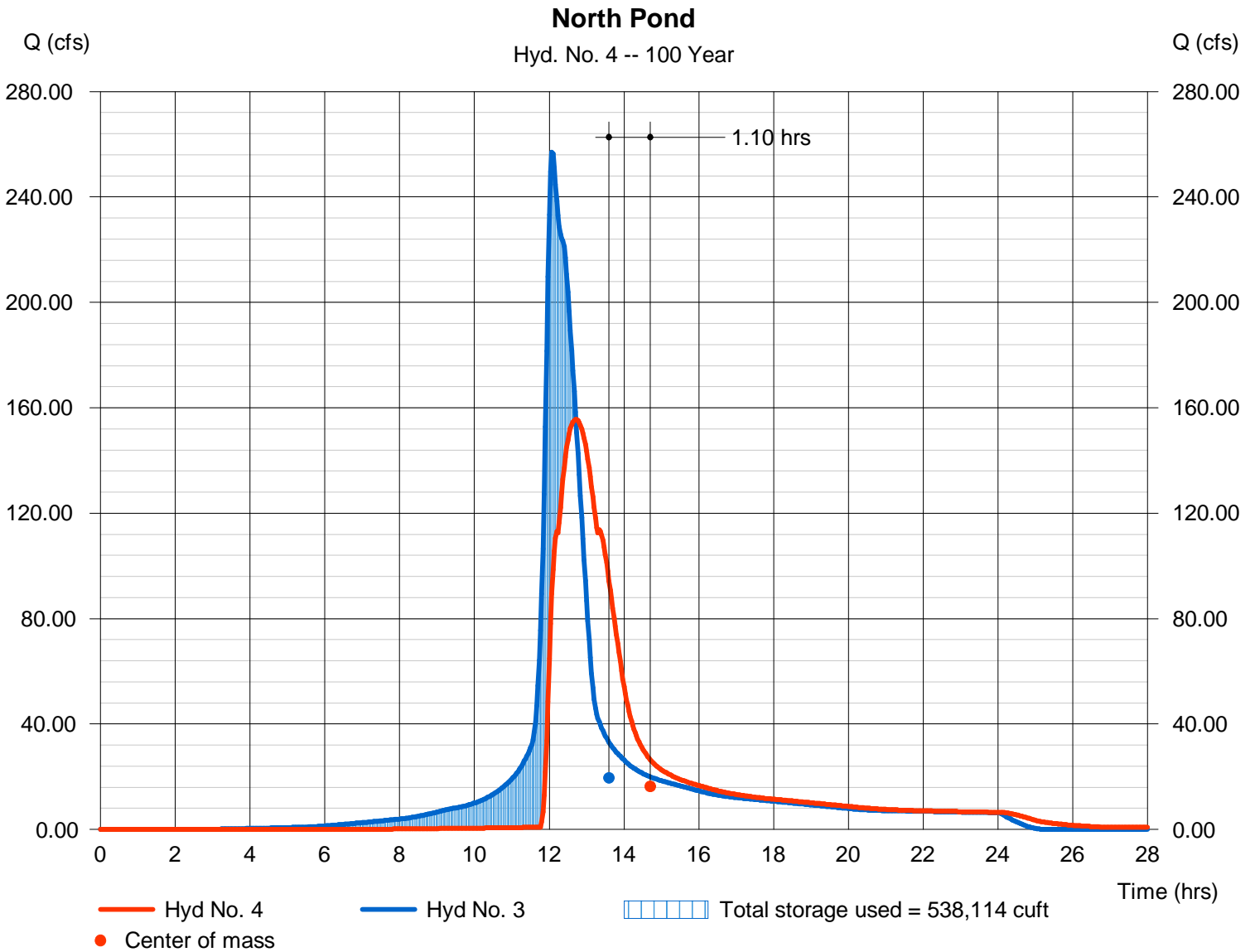
Thursday, Jan 26, 2012

Hyd. No. 4

North Pond

Hydrograph type	= Reservoir	Peak discharge	= 155.55 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.70 hrs
Time interval	= 2 min	Hyd. volume	= 1,523,669 cuft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1388.14 ft
Reservoir name	= North Pond	Max. Storage	= 538,114 cuft

Storage Indication method used.



Hydraflow Rainfall Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2011 by Autodesk, Inc. v8

Thursday, Jan 26, 2012

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	27.8967	9.8000	0.7047	-----
2	76.3137	14.3000	0.8844	-----
3	1.2000	0.1000	0.0000	-----
5	52.6224	11.2000	0.7497	-----
10	55.1841	11.1000	0.7229	-----
25	60.7012	11.1000	0.7068	-----
50	66.9222	11.3000	0.7004	-----
100	62.2794	10.1000	0.6624	-----

File name: wich_IDF.IDF

$$\text{Intensity} = B / (T_c + D)^E$$

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	4.18	3.40	2.90	2.55	2.29	2.08	1.91	1.78	1.66	1.56	1.48	1.40
2	5.57	4.54	3.85	3.35	2.97	2.67	2.43	2.23	2.06	1.92	1.80	1.69
3	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
5	6.52	5.33	4.55	3.99	3.57	3.24	2.97	2.75	2.57	2.41	2.27	2.15
10	7.40	6.09	5.22	4.60	4.13	3.76	3.46	3.21	3.00	2.82	2.67	2.53
25	8.51	7.03	6.05	5.35	4.81	4.39	4.05	3.76	3.52	3.32	3.14	2.98
50	9.47	7.86	6.78	6.00	5.41	4.94	4.56	4.24	3.98	3.75	3.55	3.37
100	10.31	8.53	7.37	6.53	5.90	5.40	5.00	4.66	4.37	4.13	3.92	3.73

T_c = time in minutes. Values may exceed 60.

Precip. file name: wich_24hr.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	2.80	3.50	1.20	4.50	5.20	6.10	6.90	7.80
SCS 6-Hr	0.00	1.80	0.00	0.00	2.60	0.00	0.00	4.00
Huff-1st	0.00	1.55	0.00	2.75	4.00	5.38	6.50	8.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	1.75	0.00	2.80	3.90	5.25	6.00	7.10

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