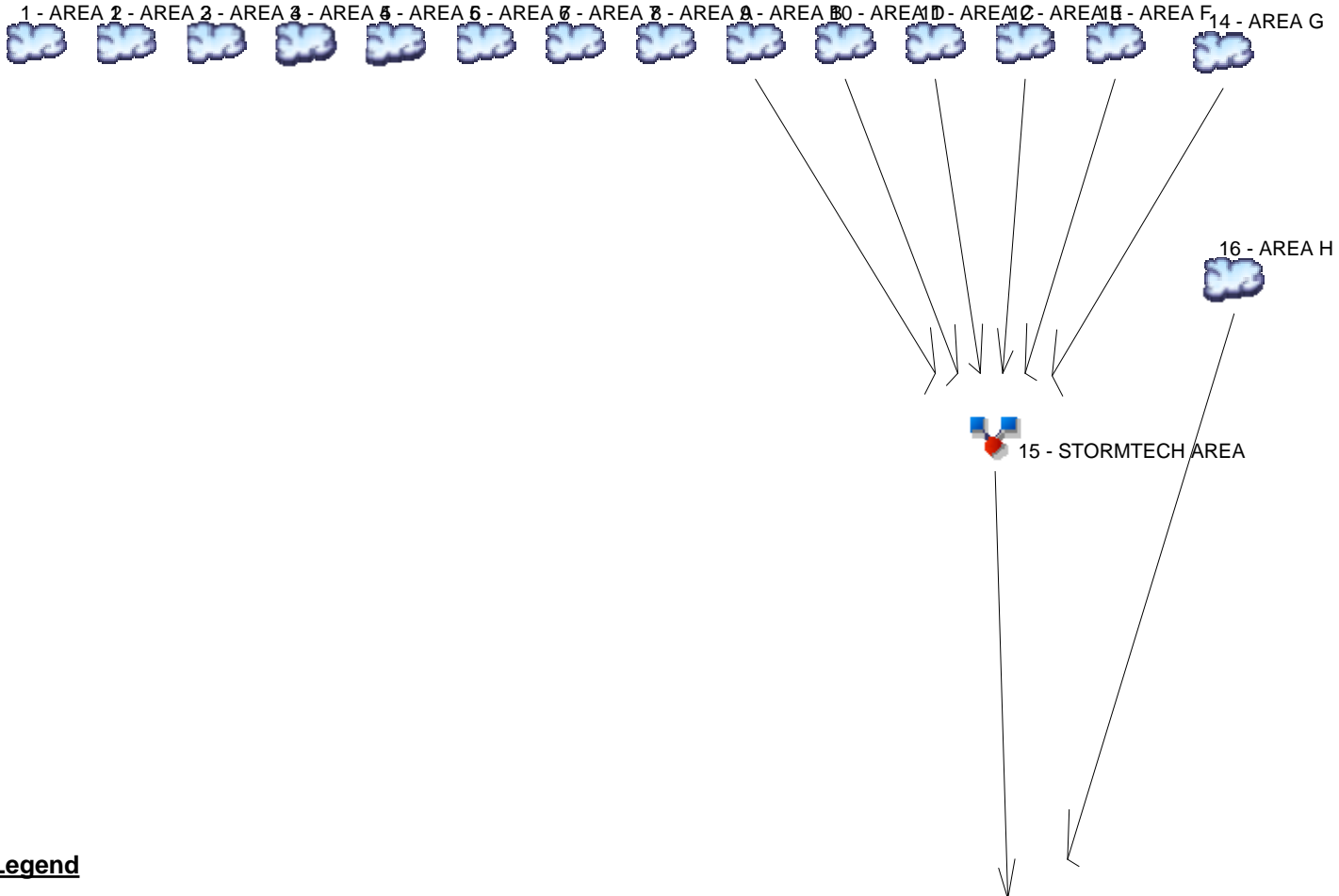


Watershed Model Schematic

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9



Legend

Hyd. Origin	Description
1 SCS Runoff	AREA 1
2 SCS Runoff	AREA 2
3 SCS Runoff	AREA 3
4 SCS Runoff	AREA 4
5 SCS Runoff	AREA 5
6 SCS Runoff	AREA 6
7 SCS Runoff	AREA 7
8 SCS Runoff	AREA A
9 SCS Runoff	AREA B
10 SCS Runoff	AREA D
11 SCS Runoff	AREA C
12 SCS Runoff	AREA E
13 SCS Runoff	AREA F
14 SCS Runoff	AREA G
15 Combine	STORMTECH AREA
16 SCS Runoff	AREA H
17 Combine	COMBINED SYSTEM TO STORMTECH
18 Reservoir	STORMTECH/ISOLATOR ROW

18 - STORMTECH/ISOLATOR ROW

Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

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	-----	4.602	6.973	-----	10.59	13.23	16.69	19.79	23.31	AREA 1
2	SCS Runoff	-----	0.417	0.630	-----	0.958	1.195	1.506	1.784	2.099	AREA 2
3	SCS Runoff	-----	0.349	0.528	-----	0.800	0.997	1.254	1.485	1.746	AREA 3
4	SCS Runoff	-----	1.958	2.461	-----	3.176	3.676	4.318	4.888	5.529	AREA 4
5	SCS Runoff	-----	1.617	2.342	-----	3.436	4.217	5.229	6.130	7.143	AREA 5
6	SCS Runoff	-----	0.809	1.171	-----	1.718	2.109	2.614	3.065	3.572	AREA 6
7	SCS Runoff	-----	0.507	0.768	-----	1.167	1.459	1.840	2.182	2.570	AREA 7
8	SCS Runoff	-----	0.000	0.000	-----	0.015	0.044	0.184	0.479	1.043	AREA A
9	SCS Runoff	-----	0.301	0.379	-----	0.489	0.566	0.664	0.752	0.851	AREA B
10	SCS Runoff	-----	1.280	1.609	-----	2.077	2.404	2.823	3.196	3.615	AREA D
11	SCS Runoff	-----	0.527	0.663	-----	0.855	0.990	1.163	1.316	1.489	AREA C
12	SCS Runoff	-----	1.770	2.224	-----	2.871	3.323	3.903	4.418	4.998	AREA E
13	SCS Runoff	-----	1.205	1.514	-----	1.955	2.262	2.657	3.008	3.403	AREA F
14	SCS Runoff	-----	0.640	0.805	-----	1.038	1.202	1.412	1.598	1.808	AREA G
15	Combine	9, 10, 11, 12, 13, 14	5.724	7.193	-----	9.285	10.75	12.62	14.29	16.16	STORMTECH AREA
16	SCS Runoff	-----	2.071	2.603	-----	3.360	3.888	4.567	5.170	5.848	AREA H
17	Combine	15, 16	7.796	9.796	-----	12.64	14.63	17.19	19.46	22.01	COMBINED SYSTEM TO STORMTE
18	Reservoir	17	0.571	0.625	-----	0.687	0.729	0.782	0.830	0.888	STORMTECH/ISOLATOR ROW

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

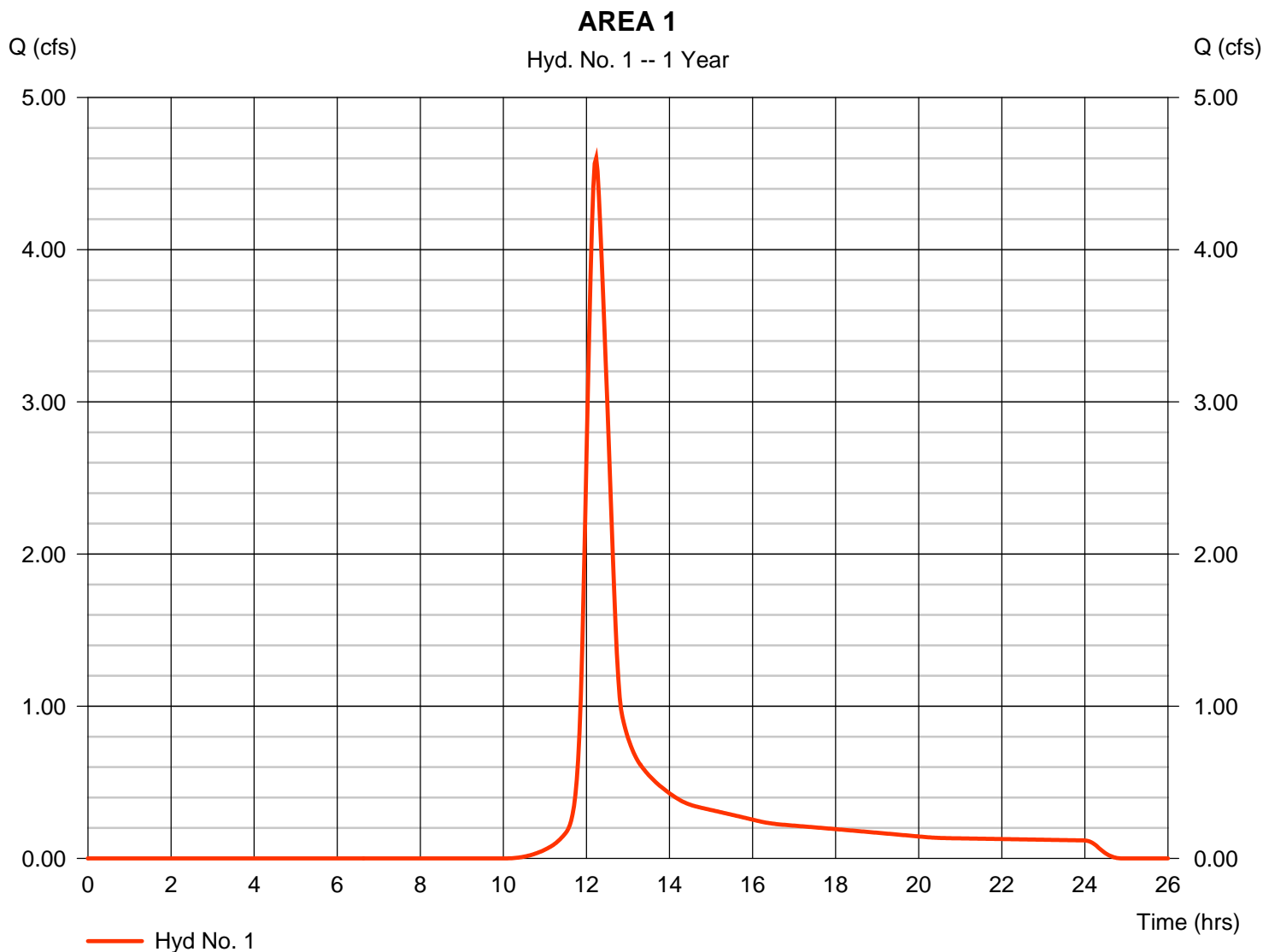
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	4.602	2	734	0.471	-----	-----	-----	AREA 1
2	SCS Runoff	0.417	2	730	0.036	-----	-----	-----	AREA 2
3	SCS Runoff	0.349	2	726	0.026	-----	-----	-----	AREA 3
4	SCS Runoff	1.958	2	716	0.104	-----	-----	-----	AREA 4
5	SCS Runoff	1.617	2	718	0.075	-----	-----	-----	AREA 5
6	SCS Runoff	0.809	2	718	0.037	-----	-----	-----	AREA 6
7	SCS Runoff	0.507	2	736	0.054	-----	-----	-----	AREA 7
8	SCS Runoff	0.000	2	n/a	0.000	-----	-----	-----	AREA A
9	SCS Runoff	0.301	2	716	0.016	-----	-----	-----	AREA B
10	SCS Runoff	1.280	2	716	0.068	-----	-----	-----	AREA D
11	SCS Runoff	0.527	2	716	0.028	-----	-----	-----	AREA C
12	SCS Runoff	1.770	2	716	0.094	-----	-----	-----	AREA E
13	SCS Runoff	1.205	2	716	0.064	-----	-----	-----	AREA F
14	SCS Runoff	0.640	2	716	0.034	-----	-----	-----	AREA G
15	Combine	5.724	2	716	0.305	9, 10, 11, 12, 13, 14	-----	-----	STORMTECH AREA
16	SCS Runoff	2.071	2	716	0.110	-----	-----	-----	AREA H
17	Combine	7.796	2	716	0.415	15, 16	-----	-----	COMBINED SYSTEM TO STORMTE
18	Reservoir	0.571	2	748	0.415	17	1342.01	0.209	STORMTECH/ISOLATOR ROW
13TH AND MAIZE 3.16.12.gpw					Return Period: 1 Year			Friday, 00 6, 2012	

Hydrograph Report

Hyd. No. 1

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 4.602 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.23 hrs
Time interval	= 2 min	Hyd. volume	= 0.471 acft
Drainage area	= 5.070 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 32.10 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

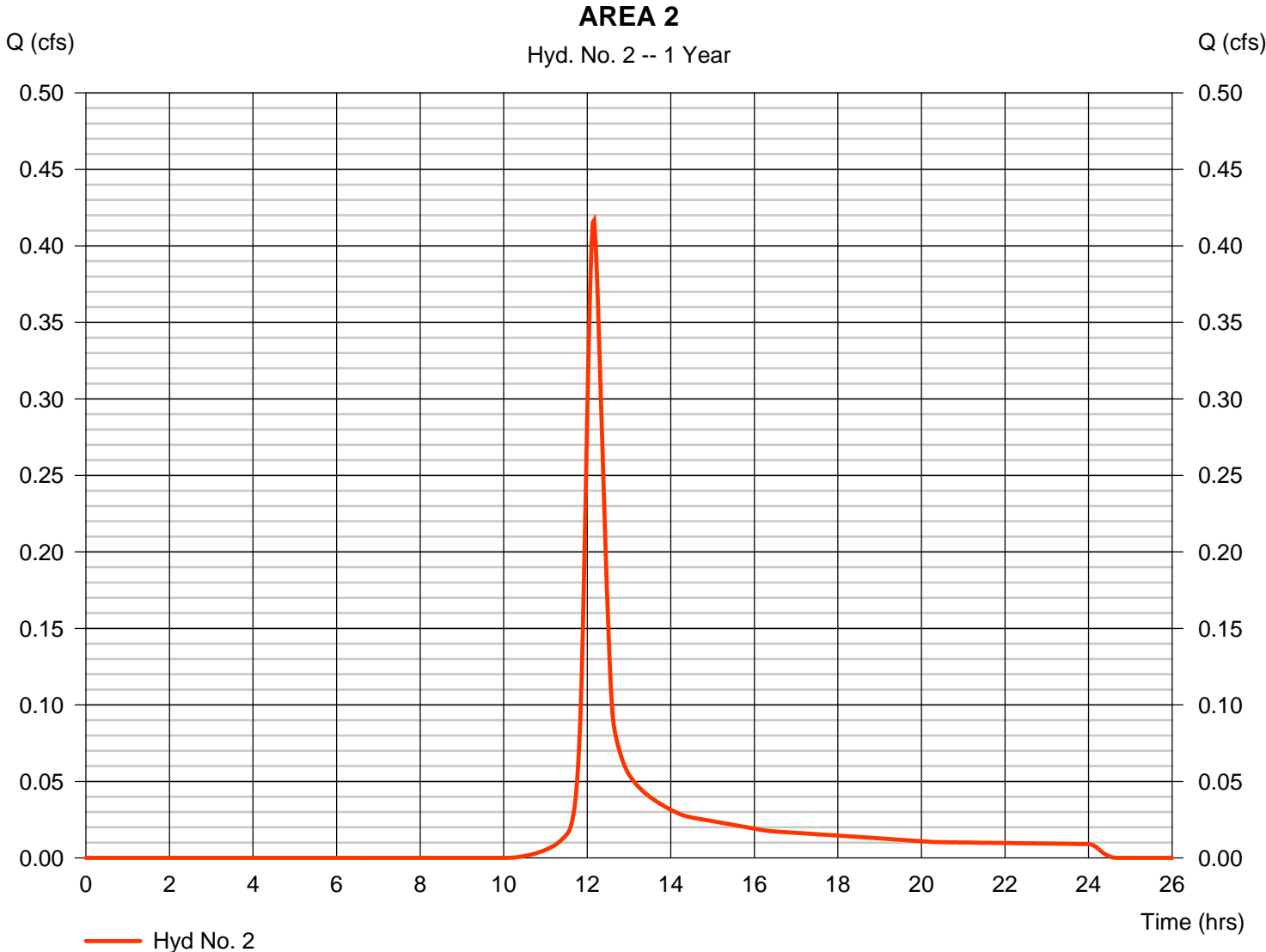


Hydrograph Report

Hyd. No. 2

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.417 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.17 hrs
Time interval	= 2 min	Hyd. volume	= 0.036 acft
Drainage area	= 0.400 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 25.30 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

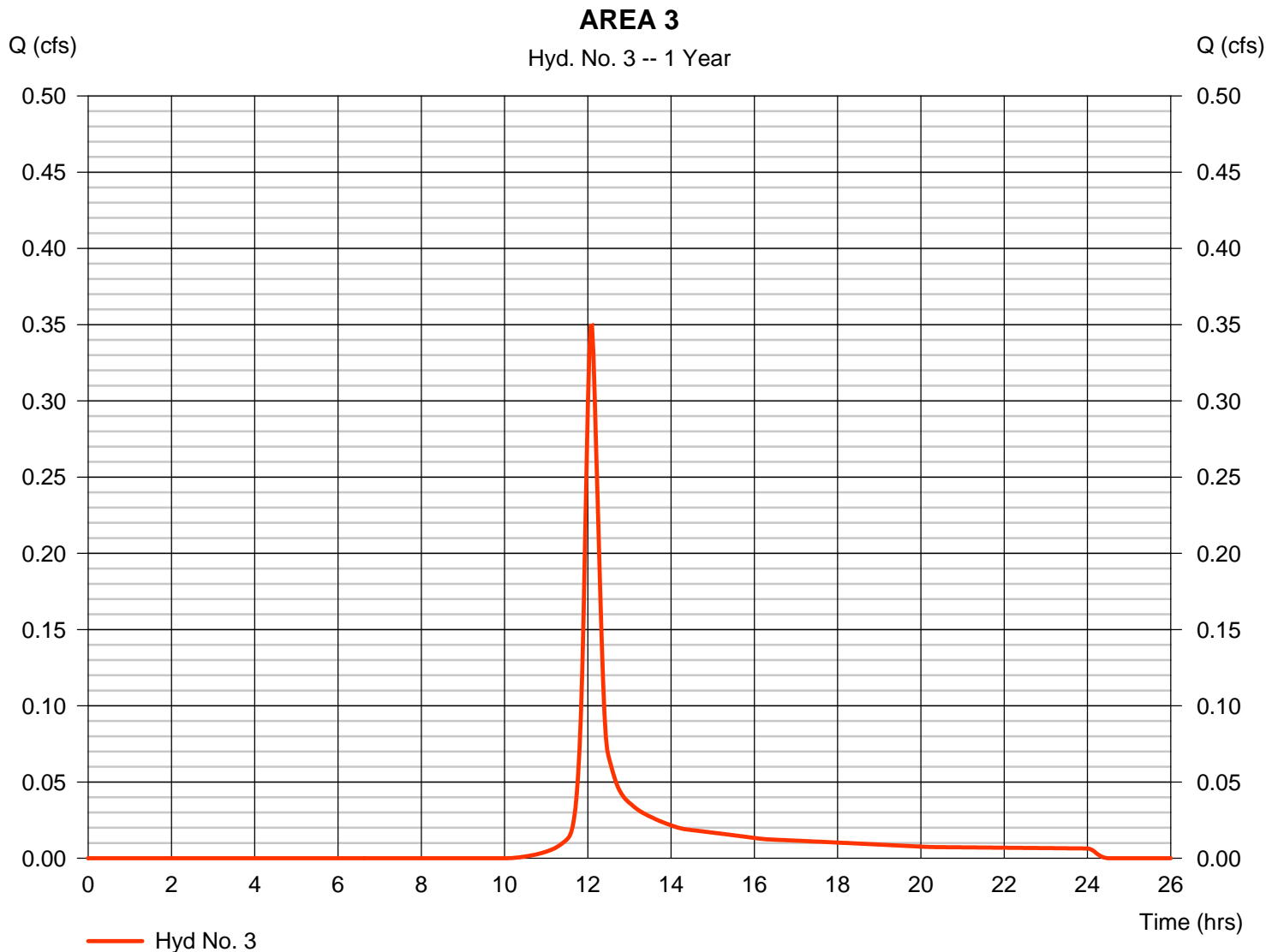


Hydrograph Report

Hyd. No. 3

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.349 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.10 hrs
Time interval	= 2 min	Hyd. volume	= 0.026 acft
Drainage area	= 0.280 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.40 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

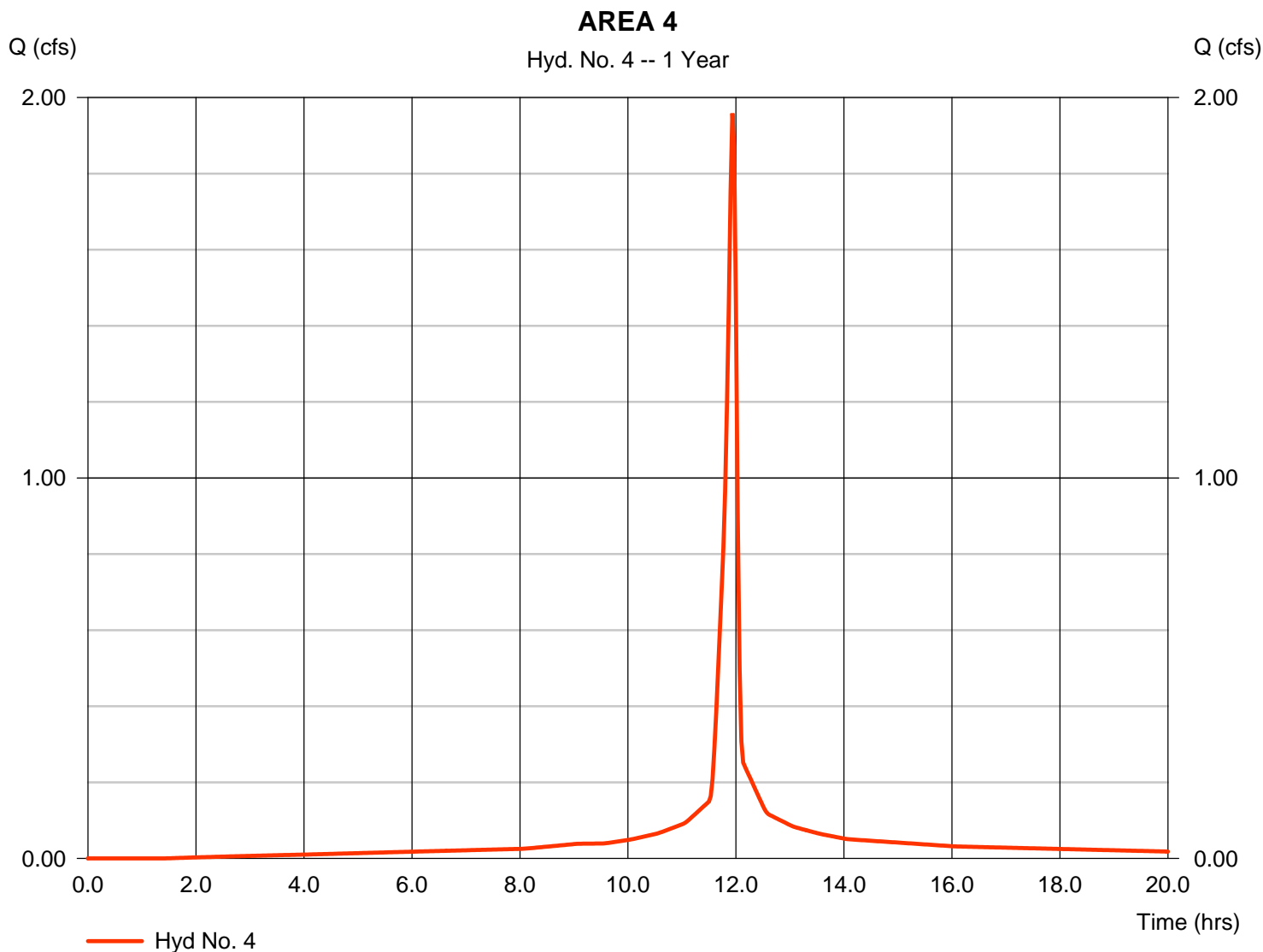


Hydrograph Report

Hyd. No. 4

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 1.958 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.104 acft
Drainage area	= 0.520 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

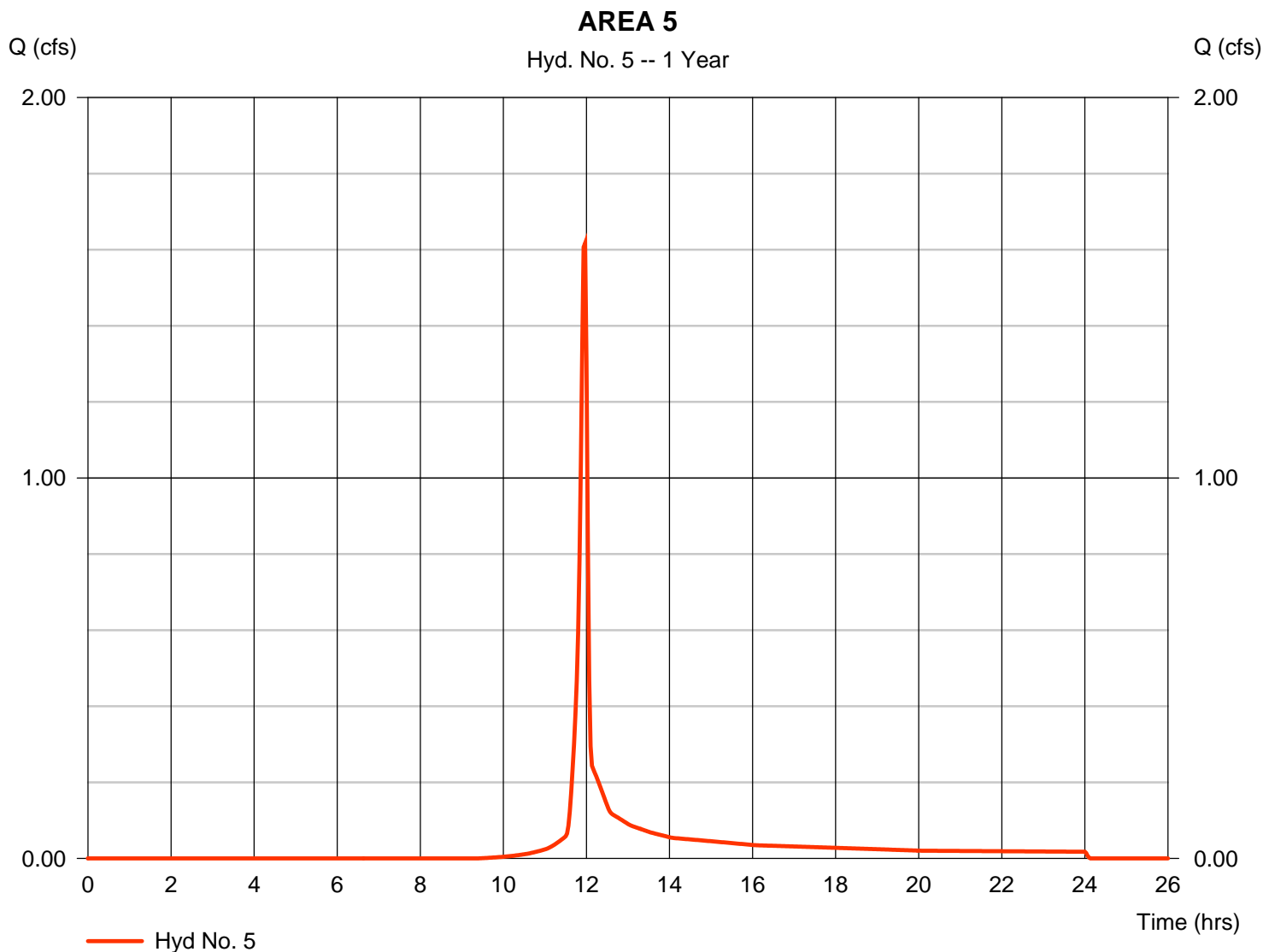


Hydrograph Report

Hyd. No. 5

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 1.617 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 0.075 acft
Drainage area	= 0.780 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.90 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

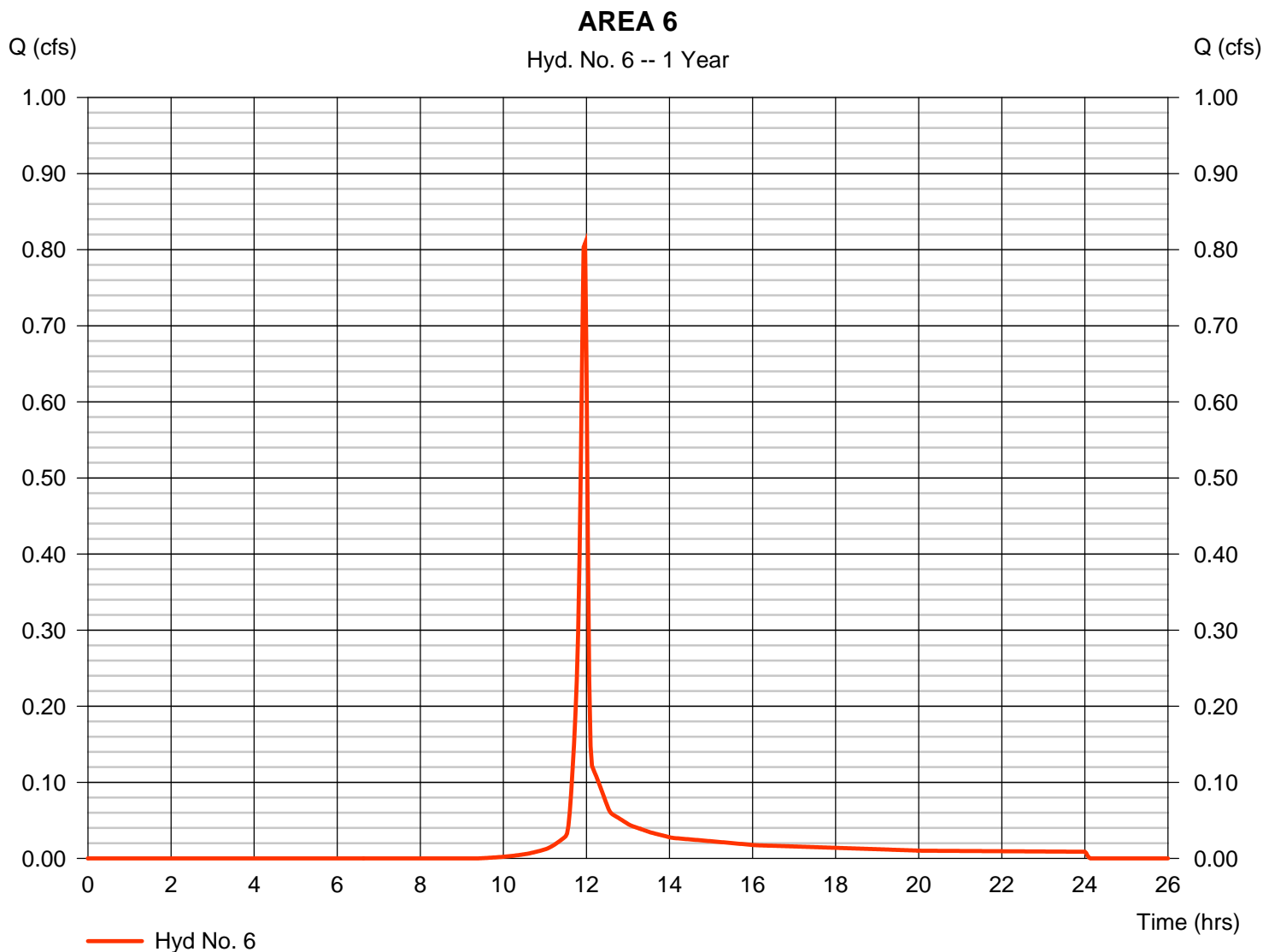
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 6

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 0.809 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 0.037 acft
Drainage area	= 0.390 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

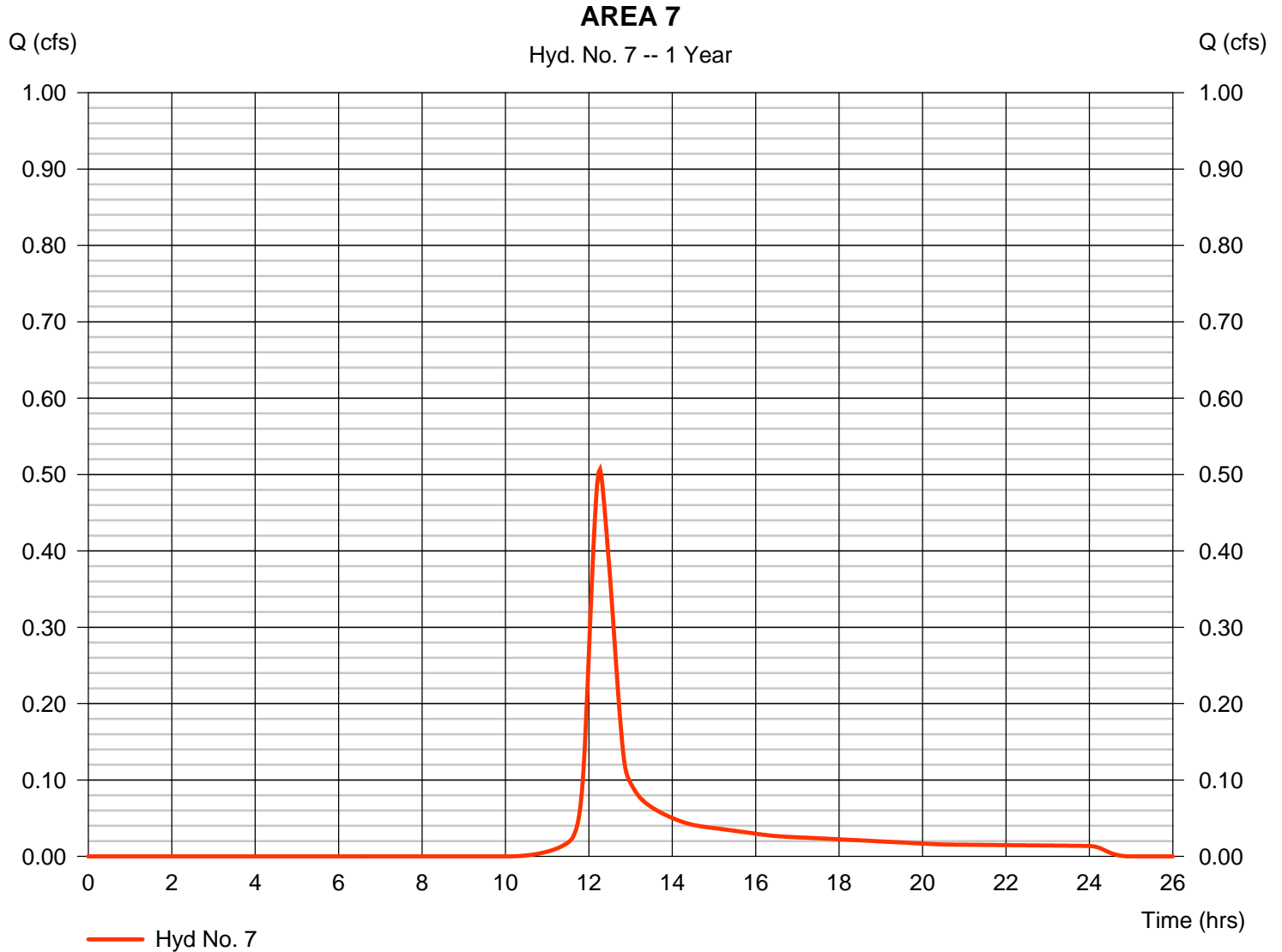
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 7

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 0.507 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.27 hrs
Time interval	= 2 min	Hyd. volume	= 0.054 acft
Drainage area	= 0.600 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 35.70 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

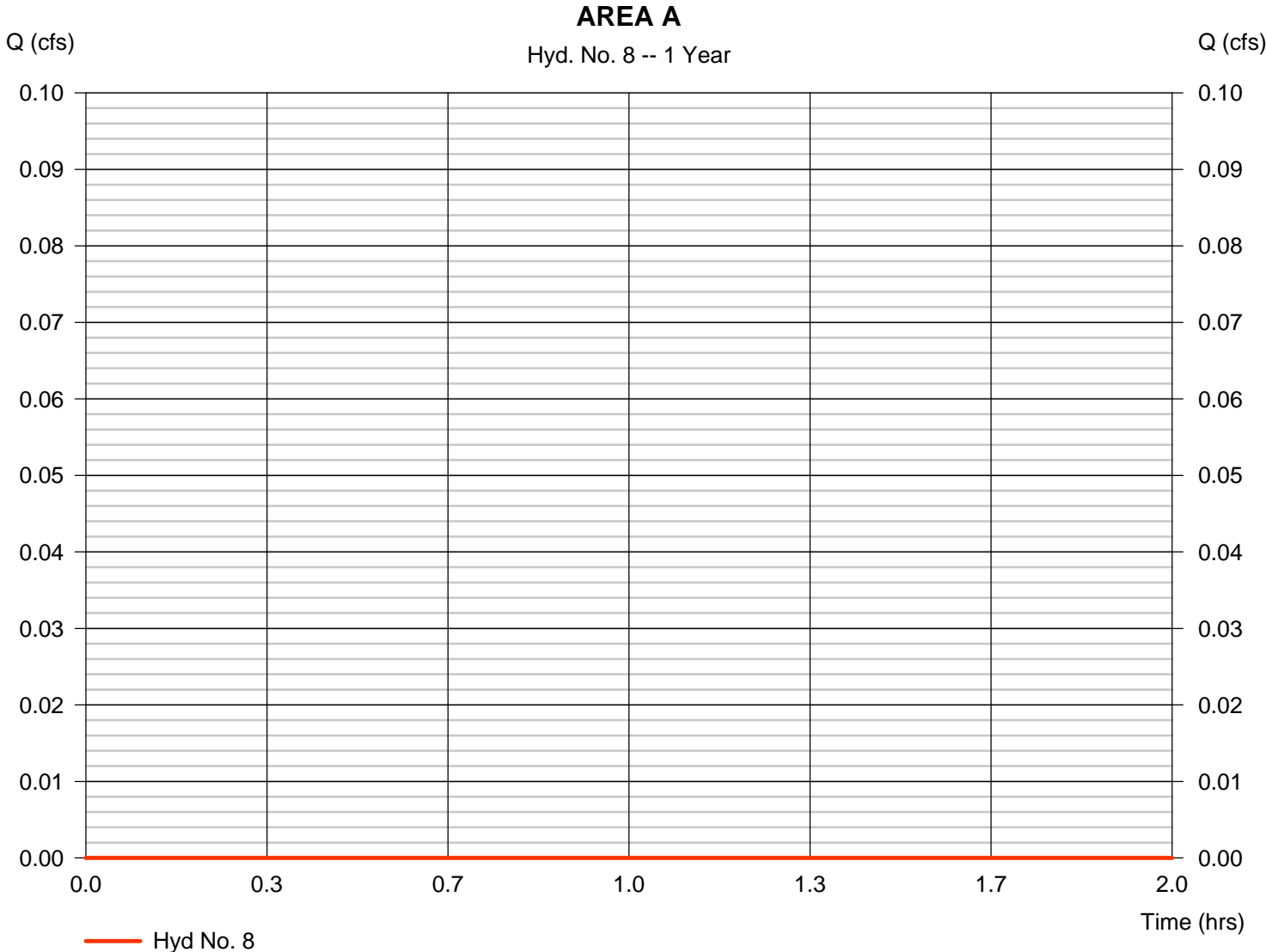


Hydrograph Report

Hyd. No. 8

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.000 cfs
Storm frequency	= 1 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= 0.000 acft
Drainage area	= 3.850 ac	Curve number	= 35
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 34.80 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

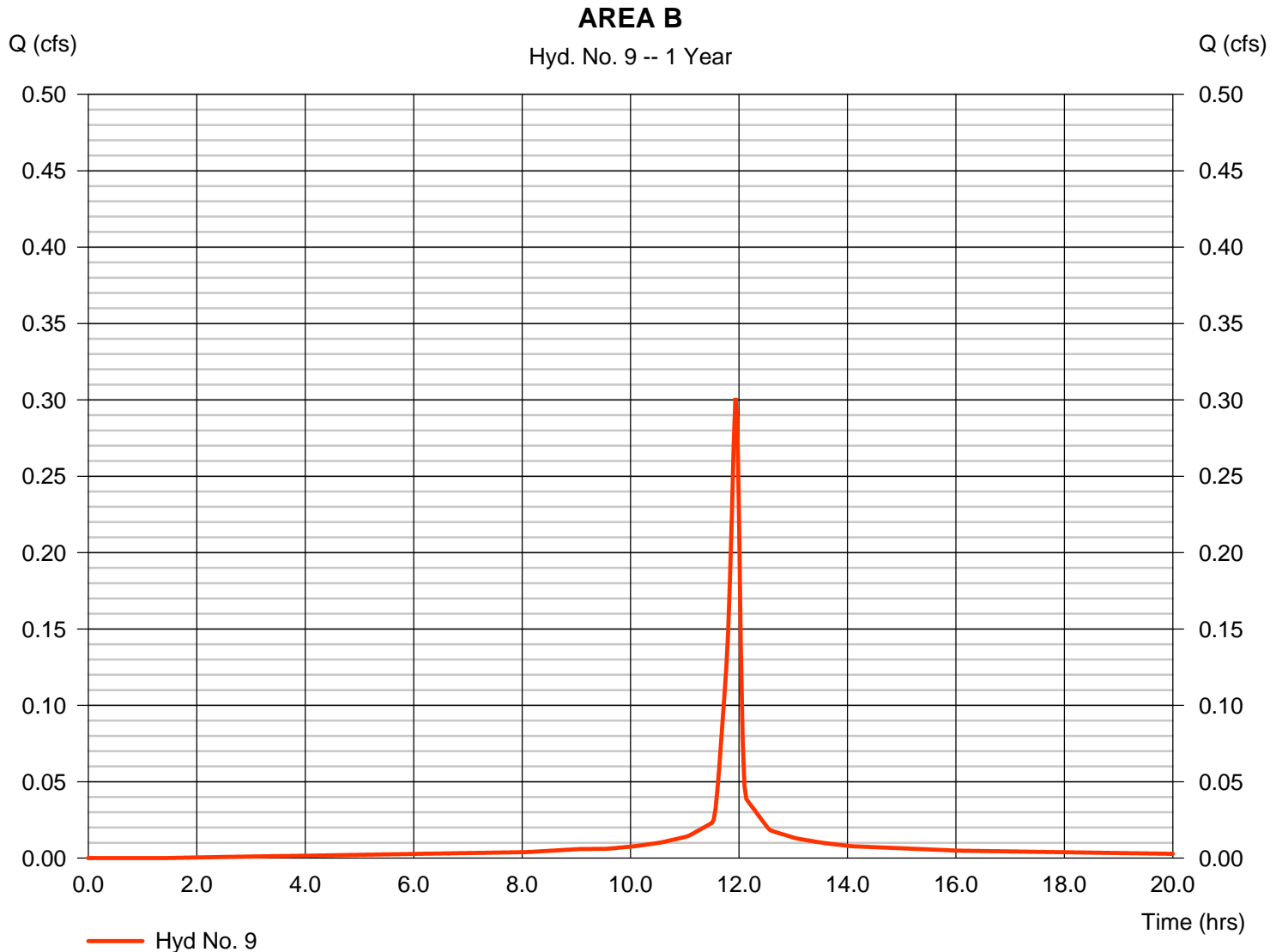
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 9

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.301 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.016 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

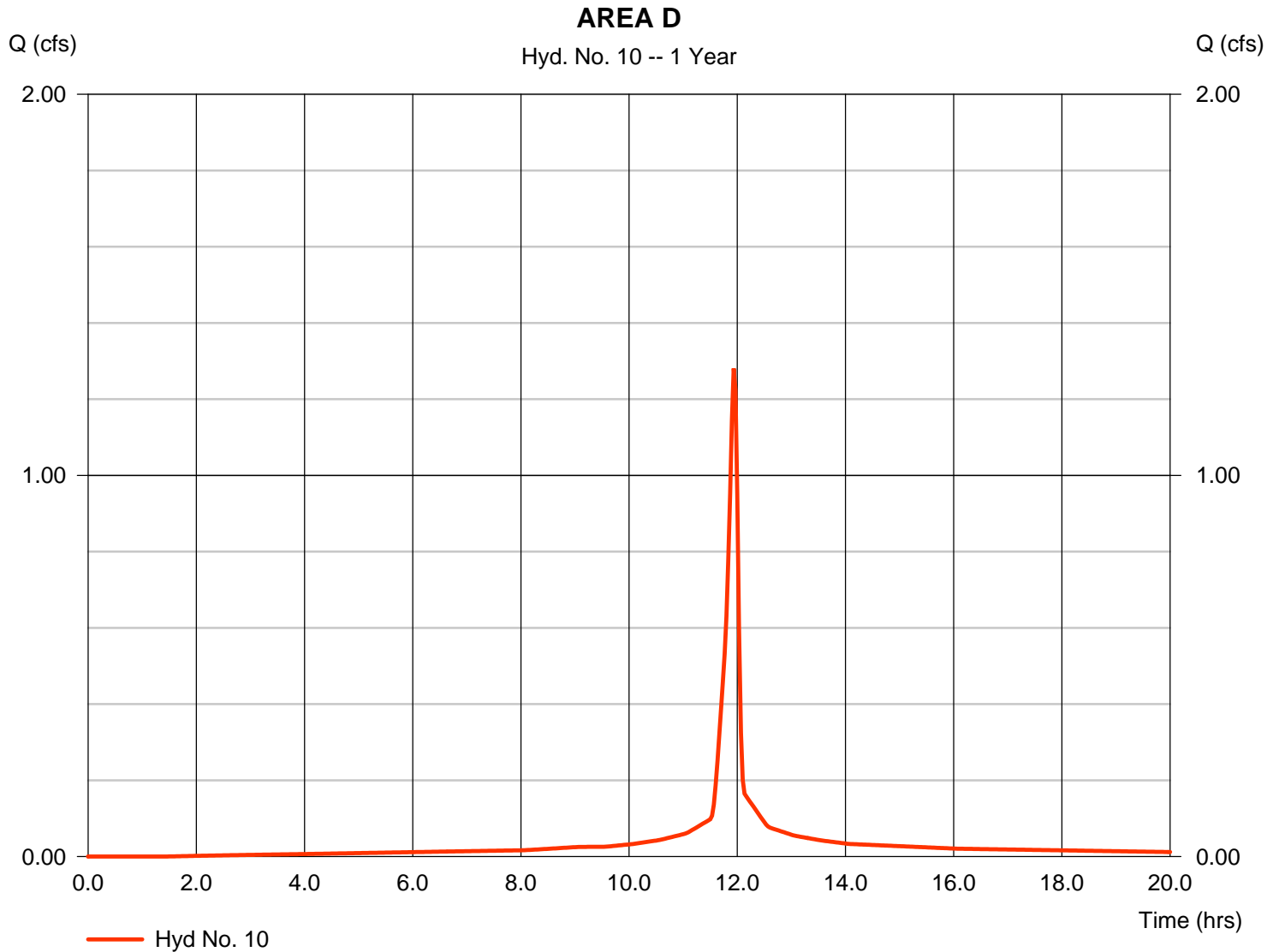
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 10

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 1.280 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.068 acft
Drainage area	= 0.340 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.20 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

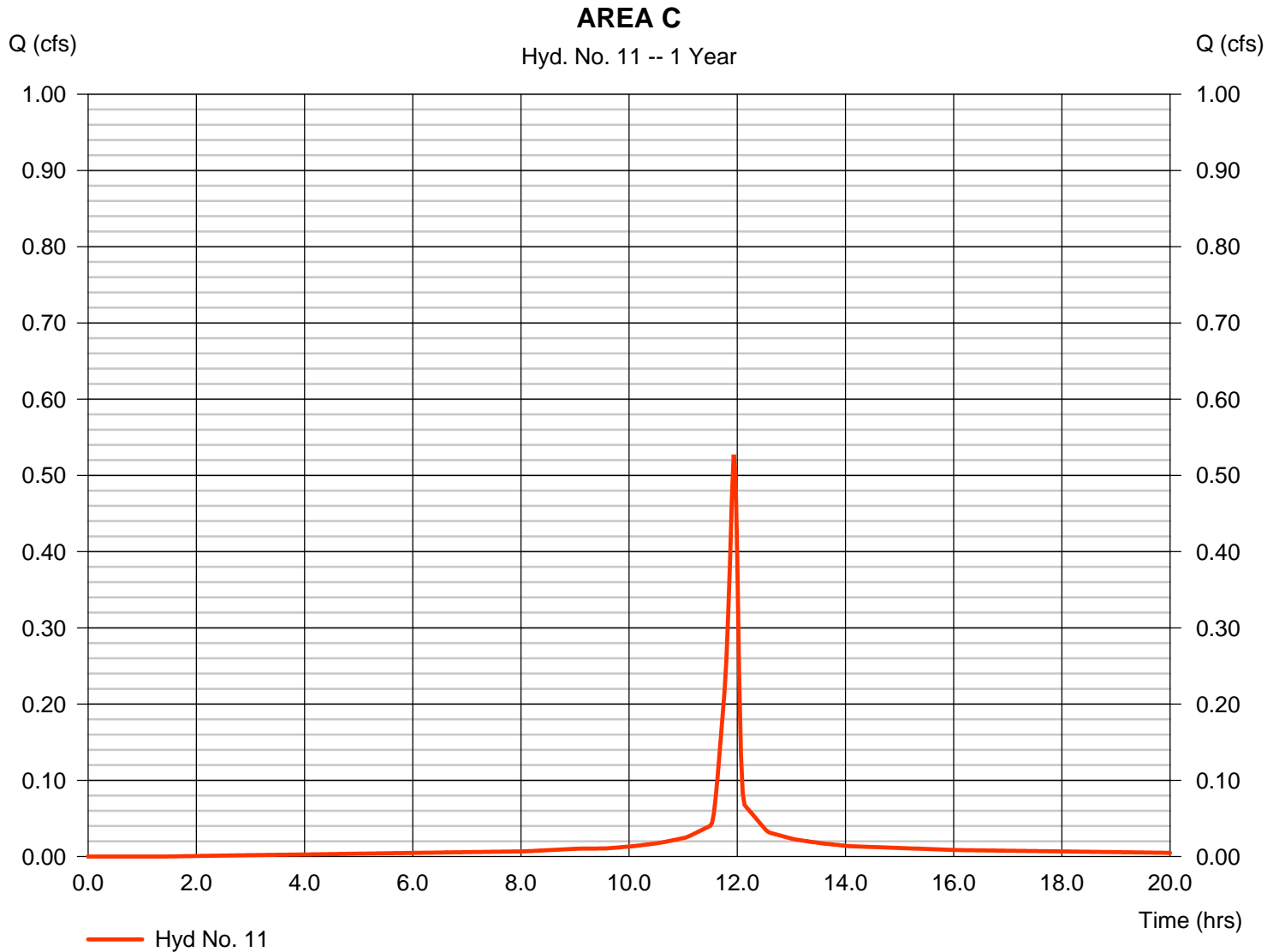
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 11

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 0.527 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.028 acft
Drainage area	= 0.140 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

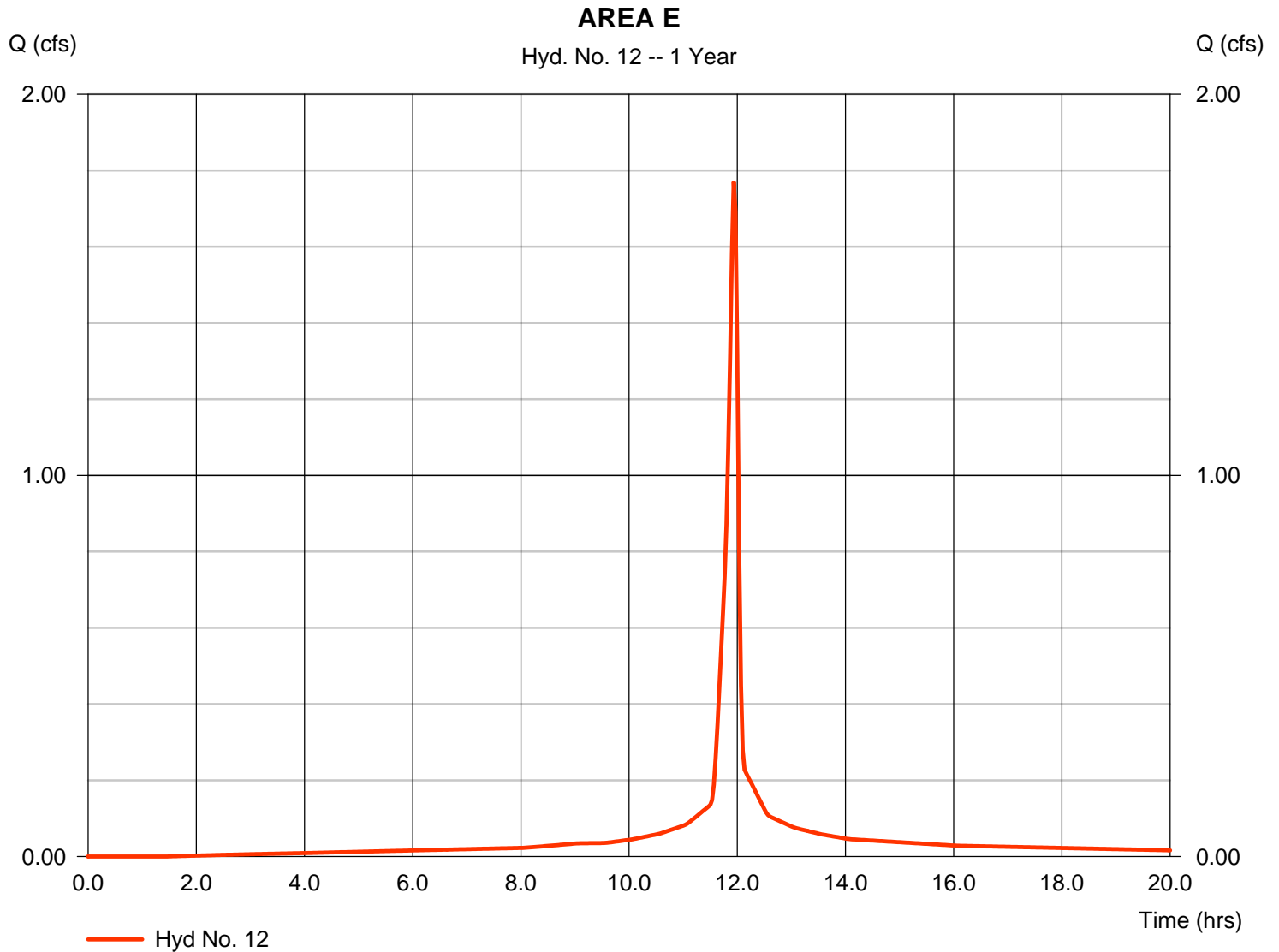
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 12

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 1.770 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.094 acft
Drainage area	= 0.470 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

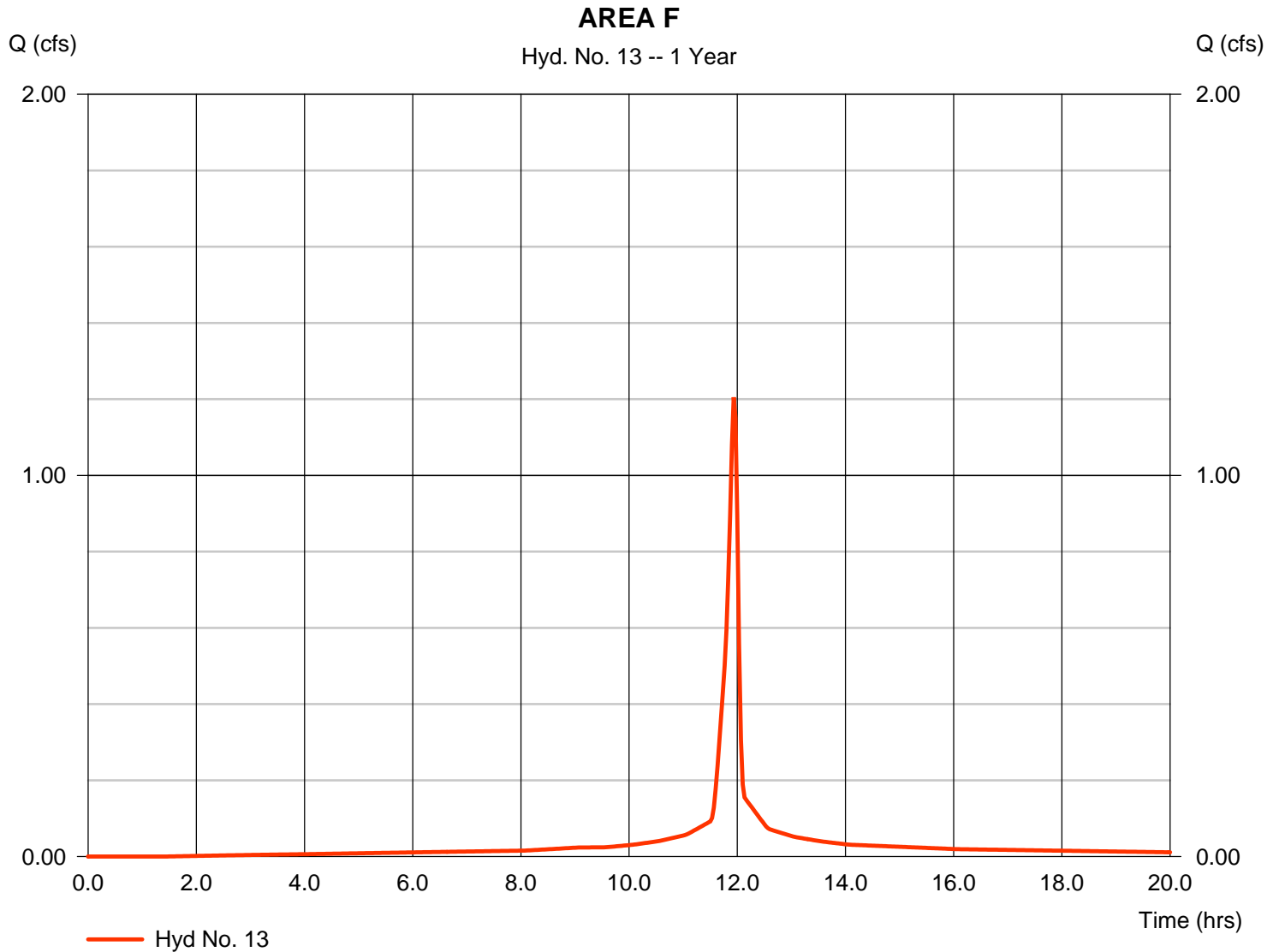
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 13

AREA F

Hydrograph type	= SCS Runoff	Peak discharge	= 1.205 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.064 acft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

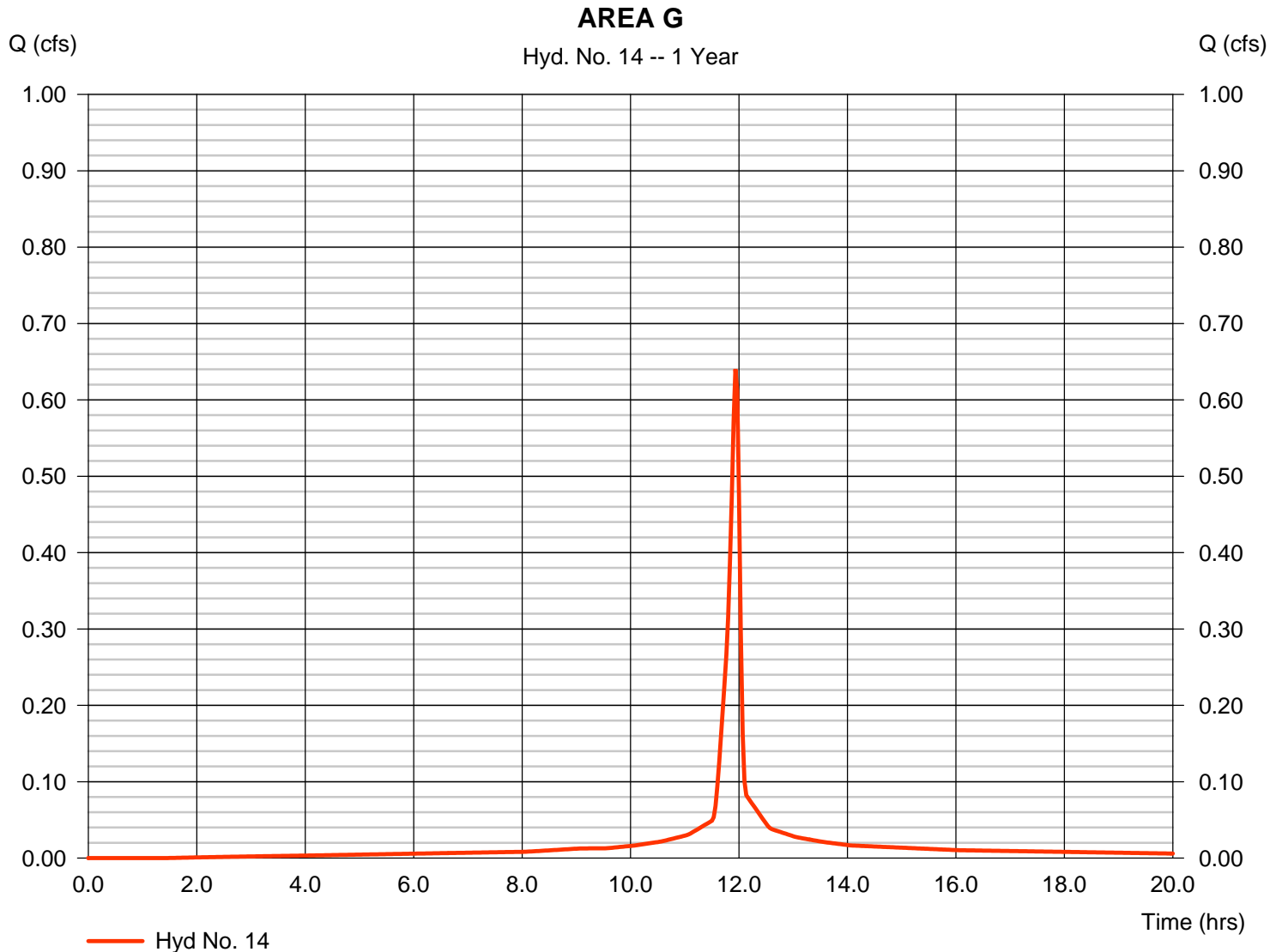
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 14

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 0.640 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.034 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.50 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

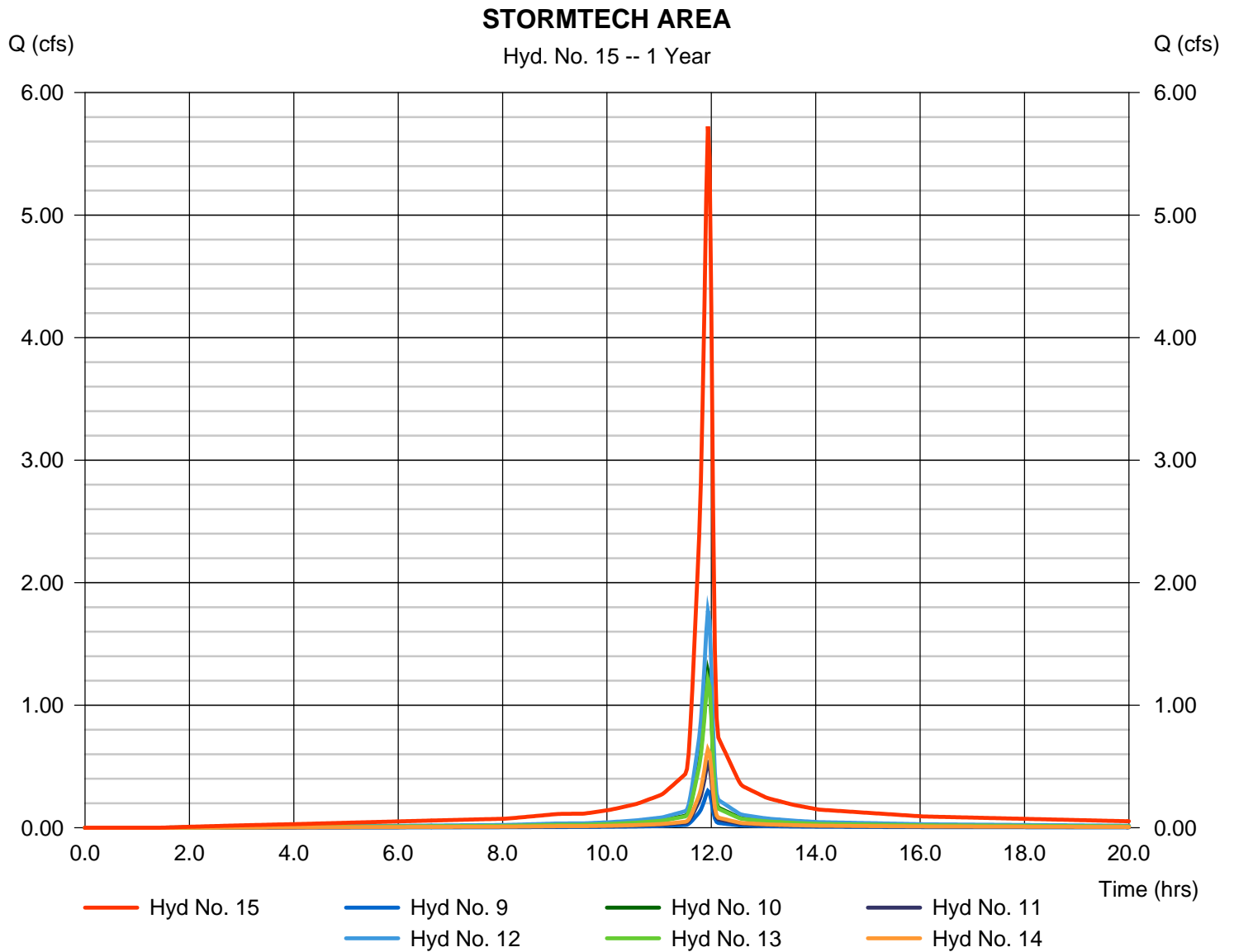
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 15

STORMTECH AREA

Hydrograph type	= Combine	Peak discharge	= 5.724 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.305 acft
Inflow hyds.	= 9, 10, 11, 12, 13, 14	Contrib. drain. area	= 1.520 ac



Hydrograph Report

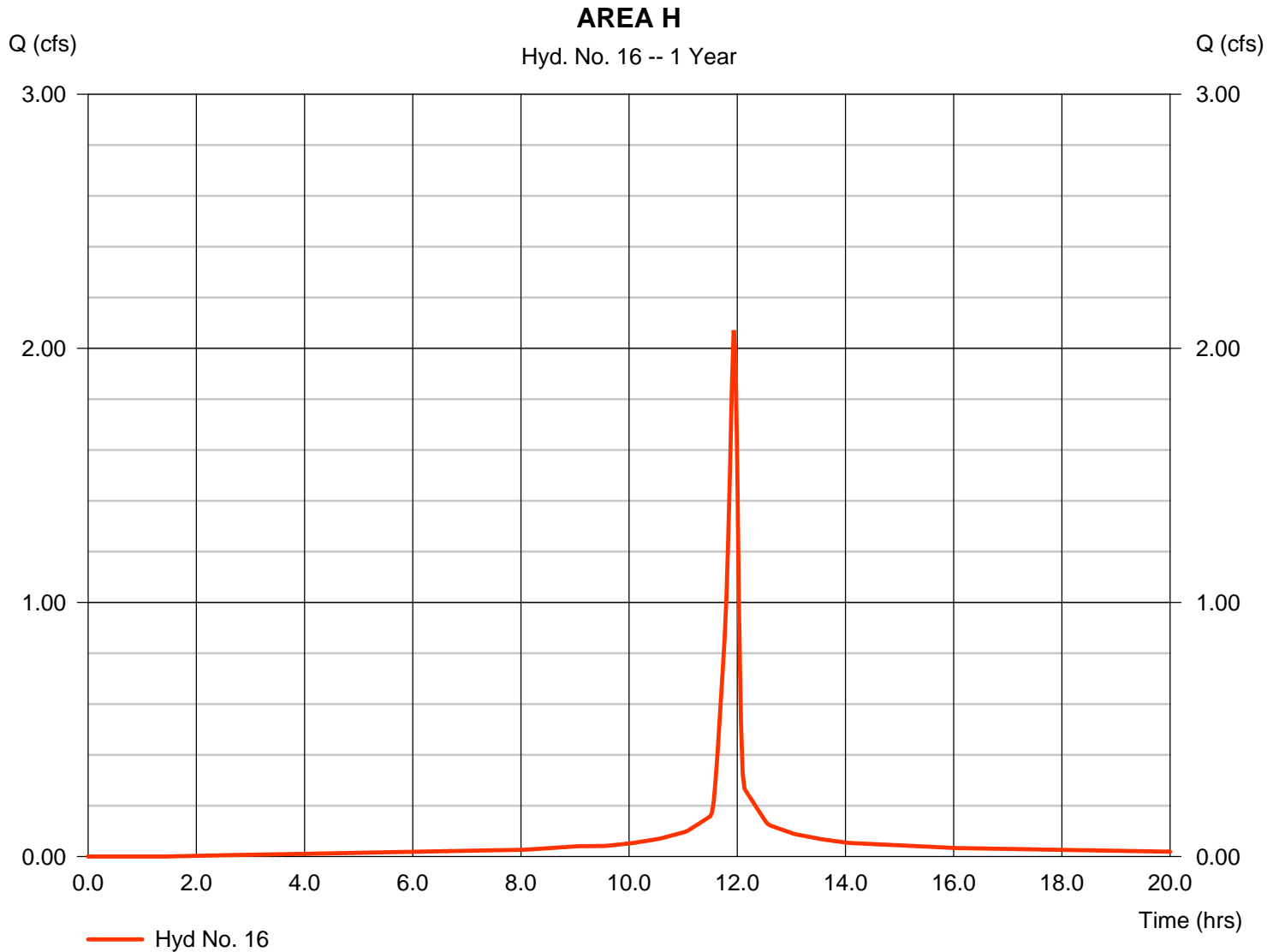
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 16

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 2.071 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.110 acft
Drainage area	= 0.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

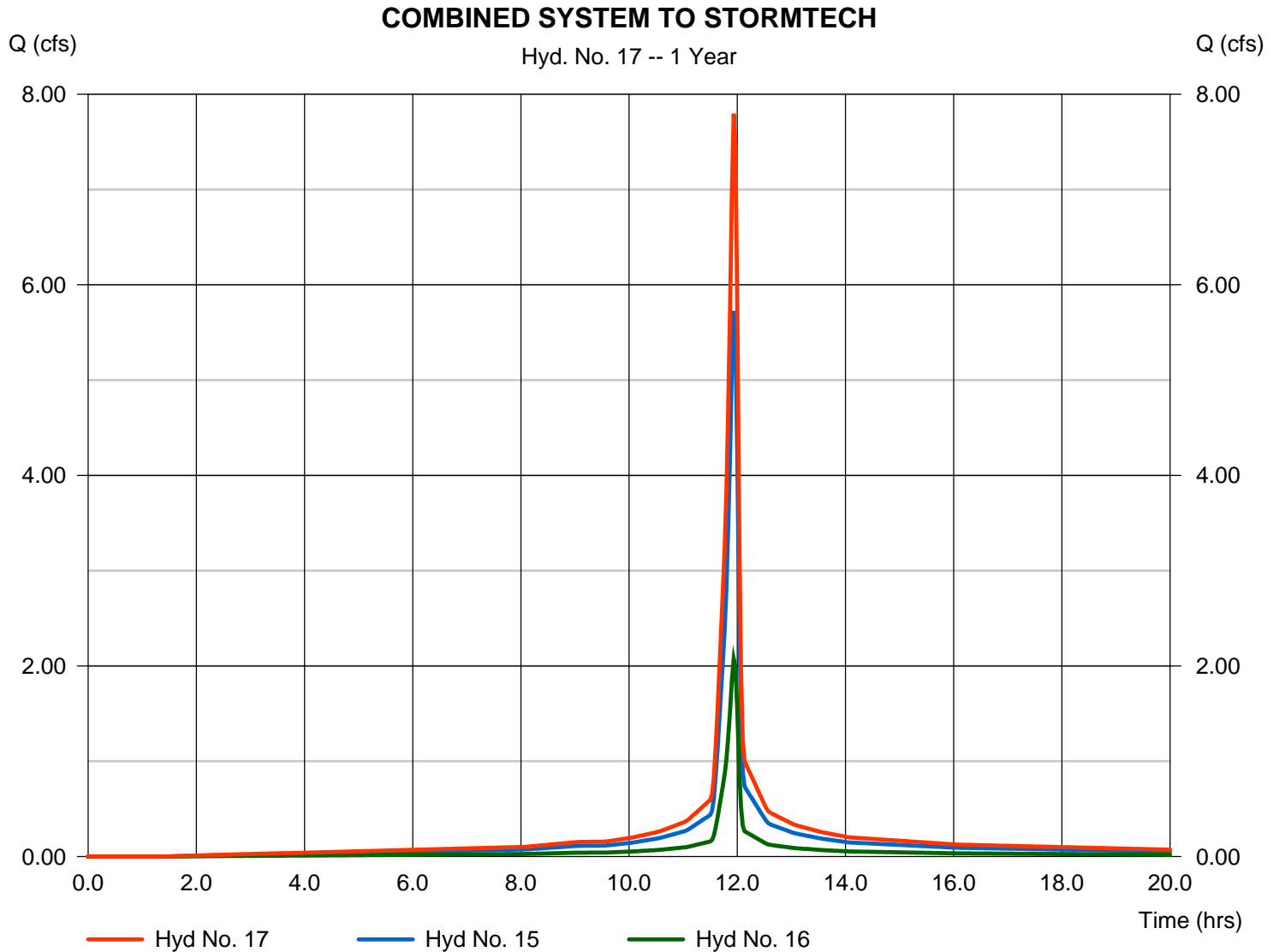


Hydrograph Report

Hyd. No. 17

COMBINED SYSTEM TO STORMTECH

Hydrograph type	= Combine	Peak discharge	= 7.796 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.415 acft
Inflow hyds.	= 15, 16	Contrib. drain. area	= 0.550 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

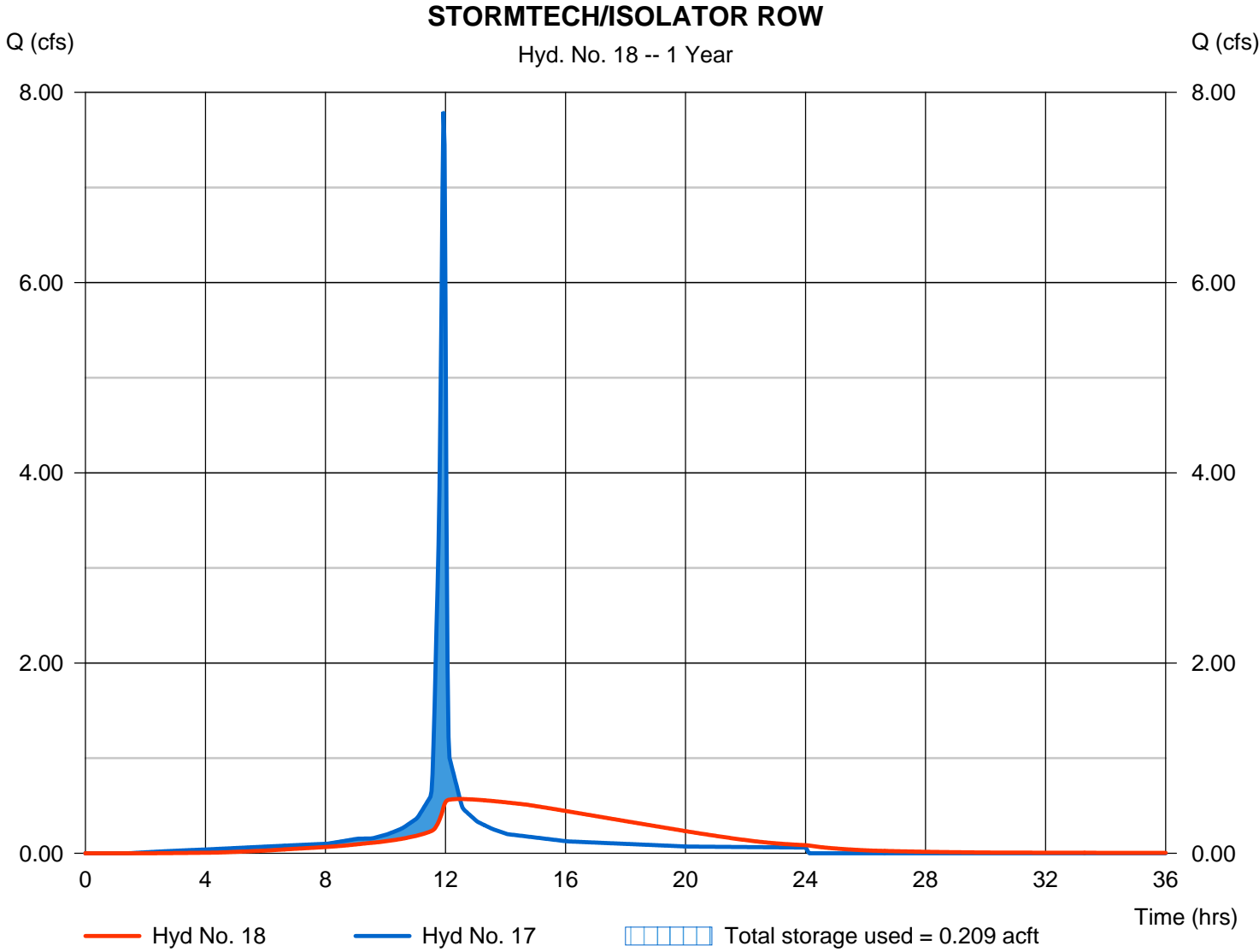
Friday, 00 6, 2012

Hyd. No. 18

STORMTECH/ISOLATOR ROW

Hydrograph type	= Reservoir	Peak discharge	= 0.571 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.47 hrs
Time interval	= 2 min	Hyd. volume	= 0.415 acft
Inflow hyd. No.	= 17 - COMBINED SYSTEM TO STORMTECH	Storm elevation	= 1342.01 ft
Reservoir name	= STORMTECH 3500	Max. Storage	= 0.209 acft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description	
1	SCS Runoff	6.973	2	734	0.700	-----	-----	-----	AREA 1	
2	SCS Runoff	0.630	2	728	0.054	-----	-----	-----	AREA 2	
3	SCS Runoff	0.528	2	724	0.038	-----	-----	-----	AREA 3	
4	SCS Runoff	2.461	2	716	0.133	-----	-----	-----	AREA 4	
5	SCS Runoff	2.342	2	716	0.109	-----	-----	-----	AREA 5	
6	SCS Runoff	1.171	2	716	0.054	-----	-----	-----	AREA 6	
7	SCS Runoff	0.768	2	736	0.081	-----	-----	-----	AREA 7	
8	SCS Runoff	0.000	2	n/a	0.000	-----	-----	-----	AREA A	
9	SCS Runoff	0.379	2	716	0.020	-----	-----	-----	AREA B	
10	SCS Runoff	1.609	2	716	0.087	-----	-----	-----	AREA D	
11	SCS Runoff	0.663	2	716	0.036	-----	-----	-----	AREA C	
12	SCS Runoff	2.224	2	716	0.120	-----	-----	-----	AREA E	
13	SCS Runoff	1.514	2	716	0.082	-----	-----	-----	AREA F	
14	SCS Runoff	0.805	2	716	0.043	-----	-----	-----	AREA G	
15	Combine	7.193	2	716	0.388	9, 10, 11, 12, 13, 14	-----	-----	STORMTECH AREA	
16	SCS Runoff	2.603	2	716	0.140	-----	-----	-----	AREA H	
17	Combine	9.796	2	716	0.528	15, 16	-----	-----	COMBINED SYSTEM TO STORMTE	
18	Reservoir	0.625	2	752	0.528	17	1342.38	0.269	STORMTECH/ISOLATOR ROW	
13TH AND MAIZE 3.16.12.gpw					Return Period: 2 Year			Friday, 00 6, 2012		

Hydrograph Report

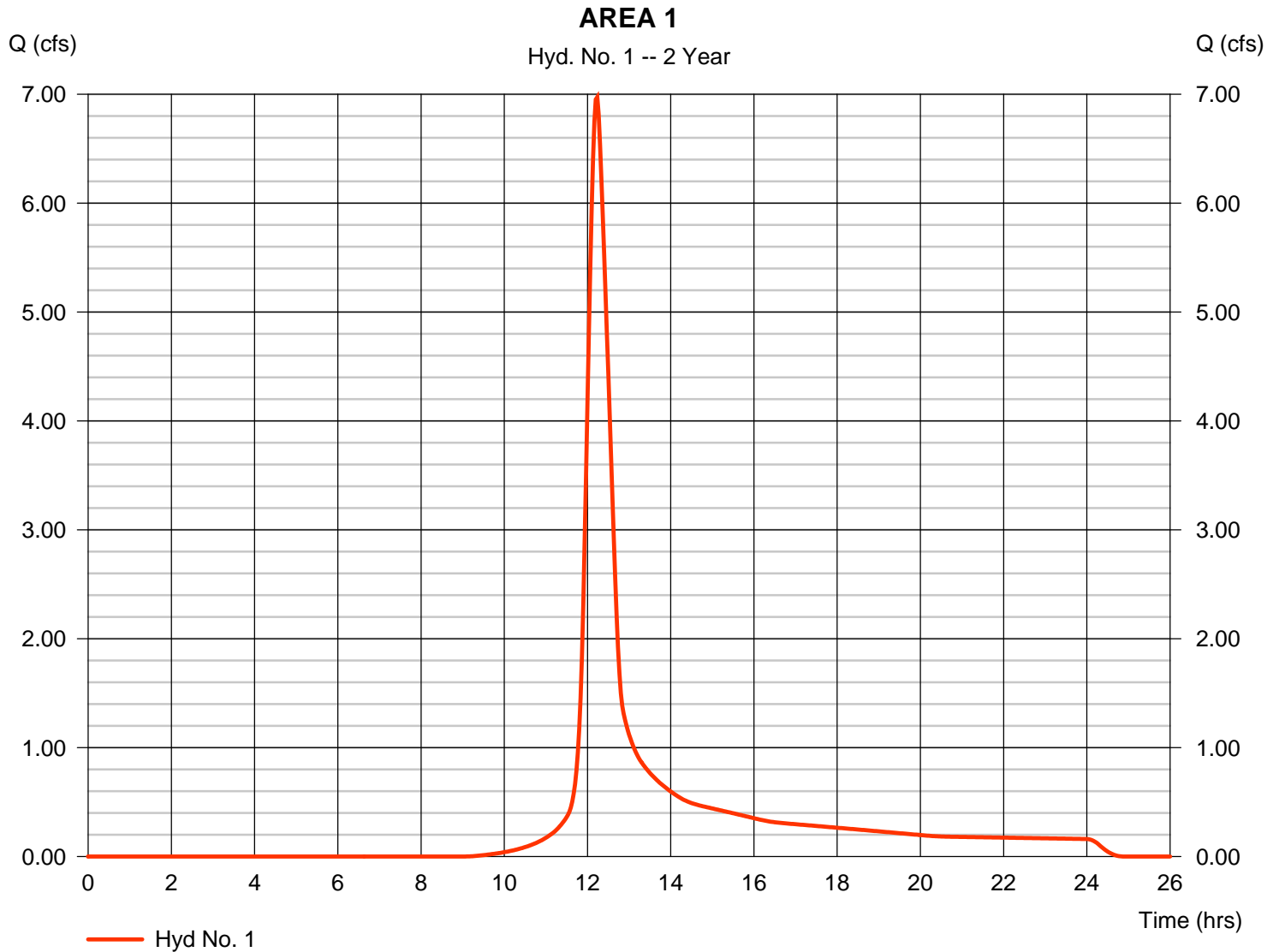
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 1

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 6.973 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.23 hrs
Time interval	= 2 min	Hyd. volume	= 0.700 acft
Drainage area	= 5.070 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 32.10 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

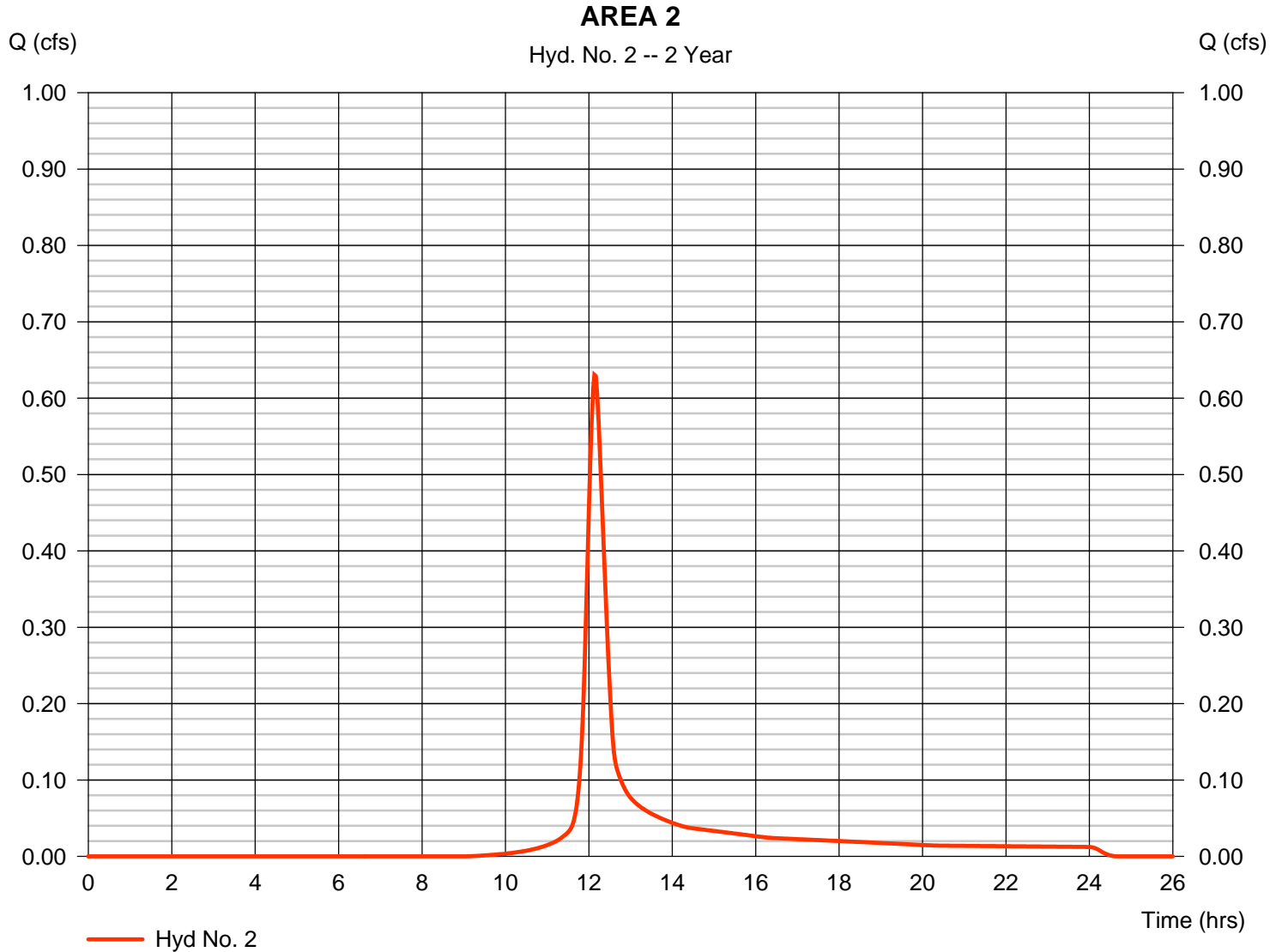
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 2

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.630 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 0.054 acft
Drainage area	= 0.400 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 25.30 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

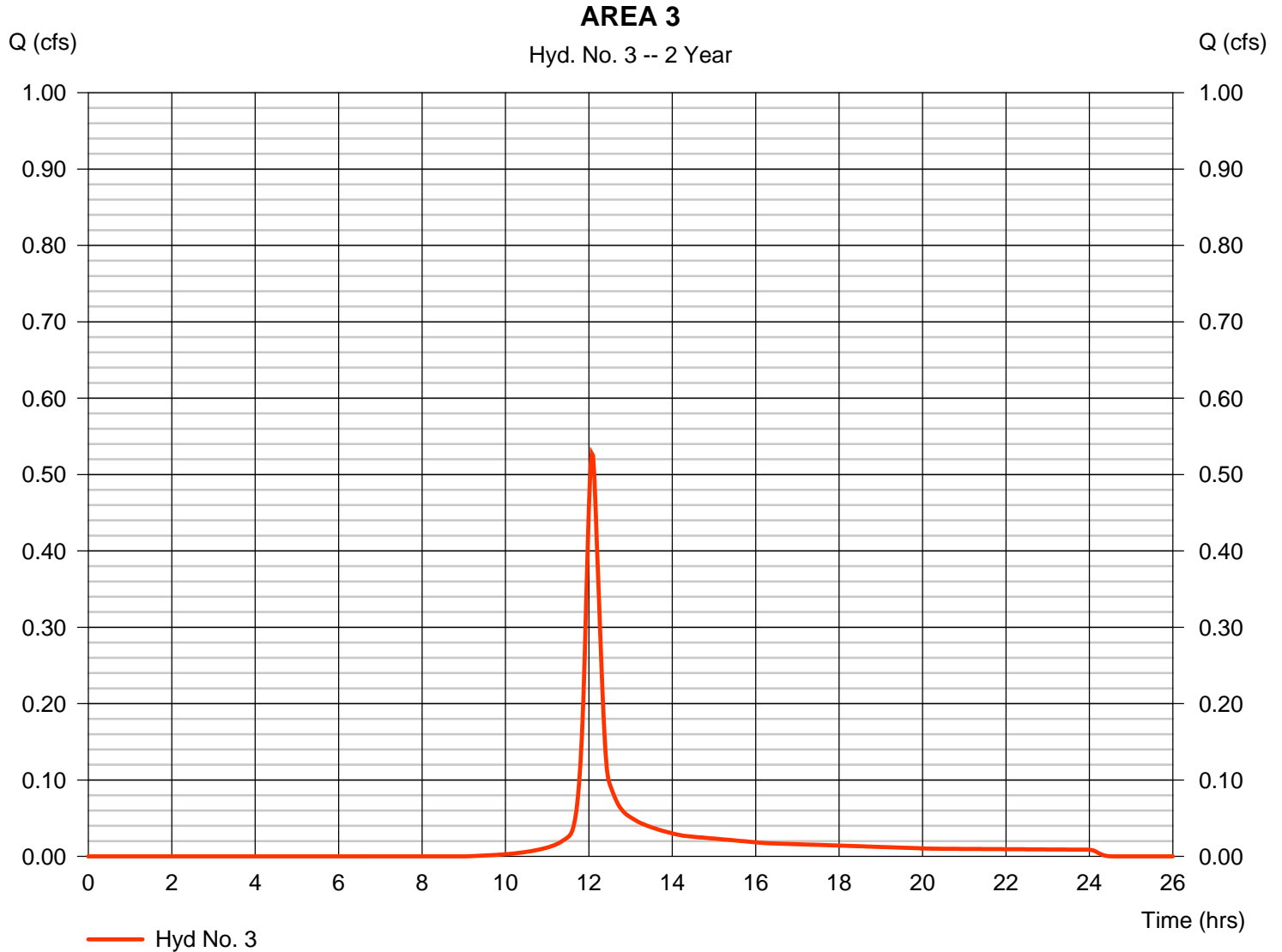
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 3

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.528 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 0.038 acft
Drainage area	= 0.280 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.40 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

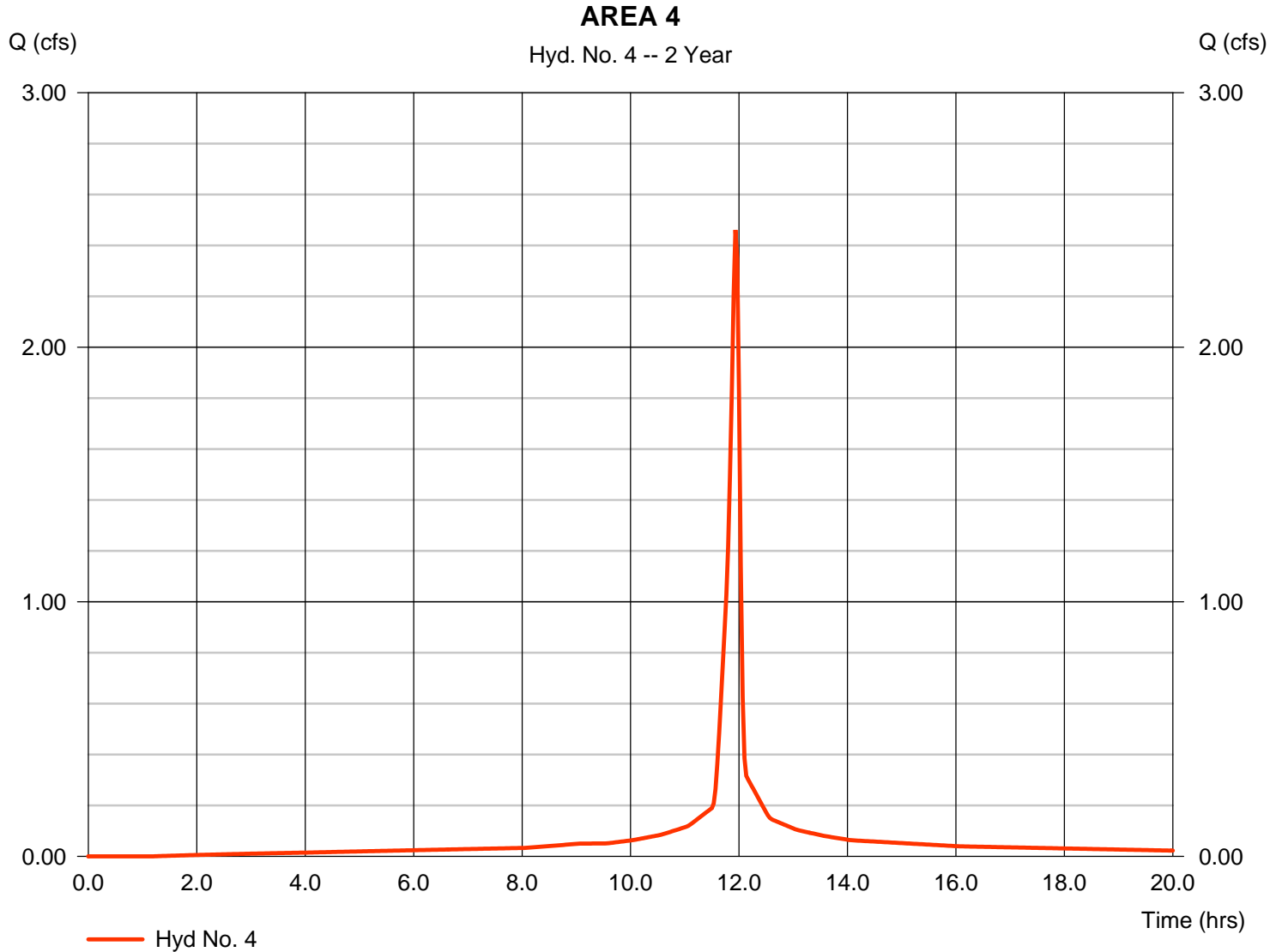
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 4

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 2.461 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.133 acft
Drainage area	= 0.520 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

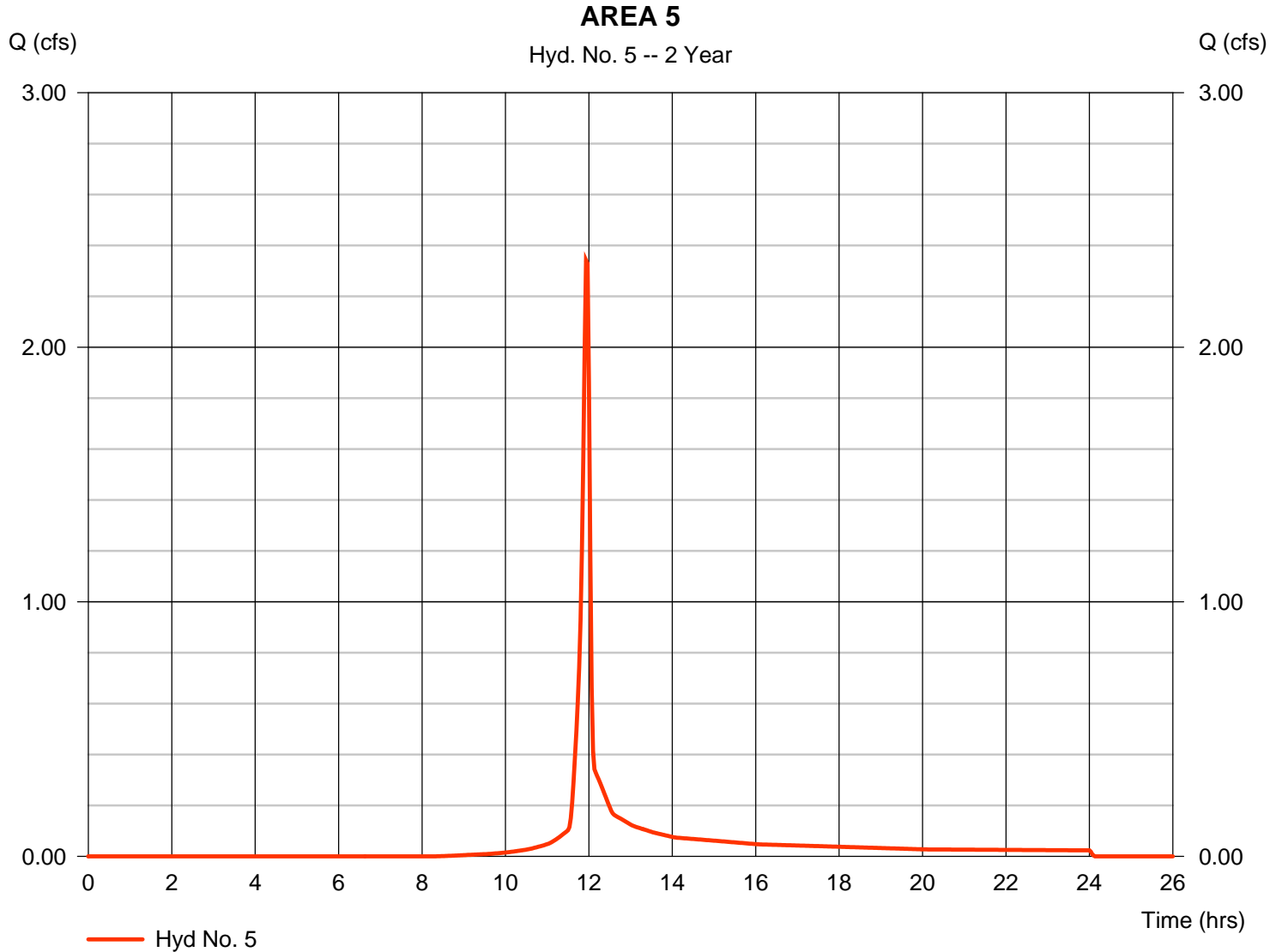
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 5

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 2.342 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.109 acft
Drainage area	= 0.780 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.90 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

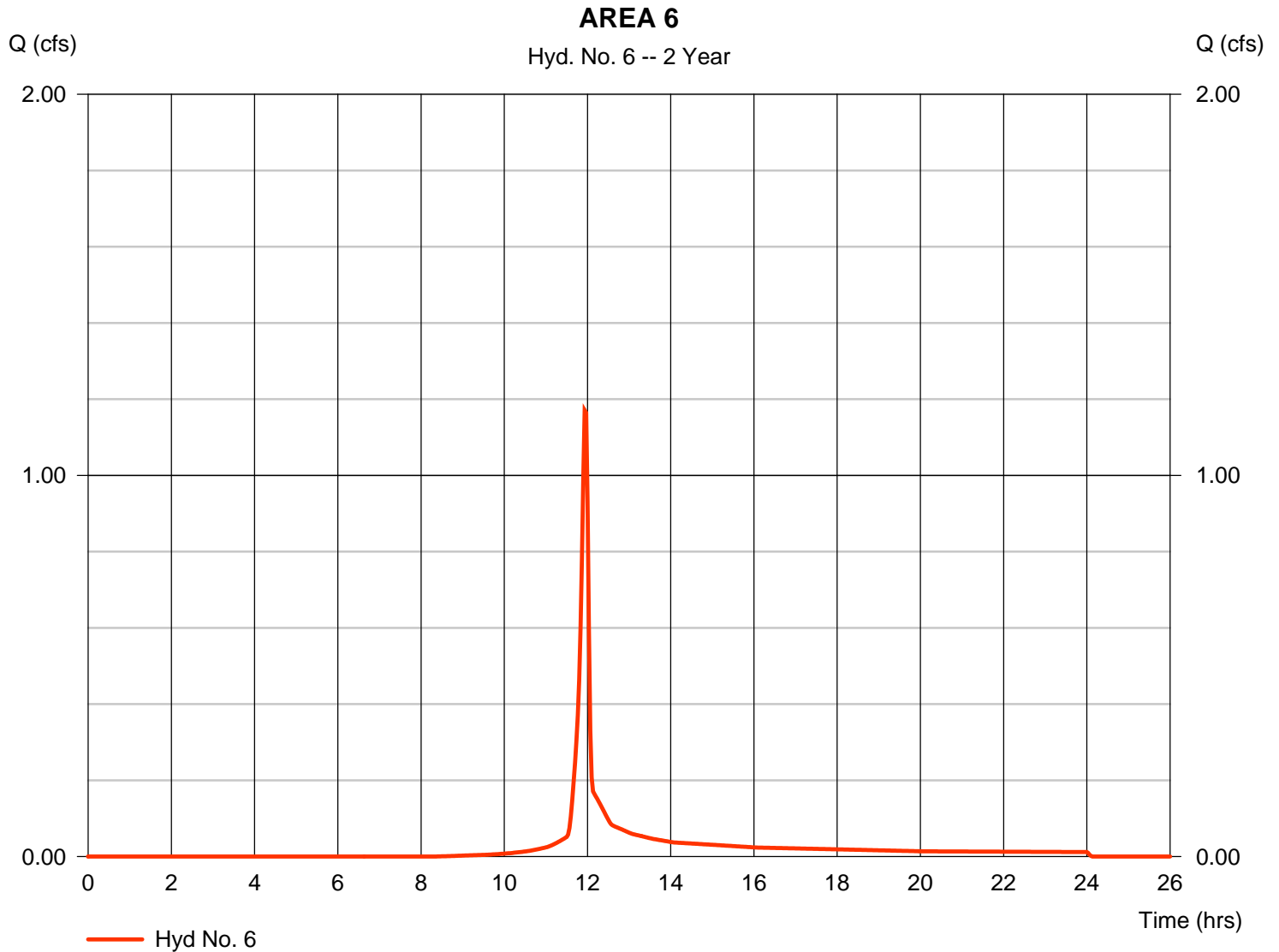
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 6

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 1.171 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.054 acft
Drainage area	= 0.390 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

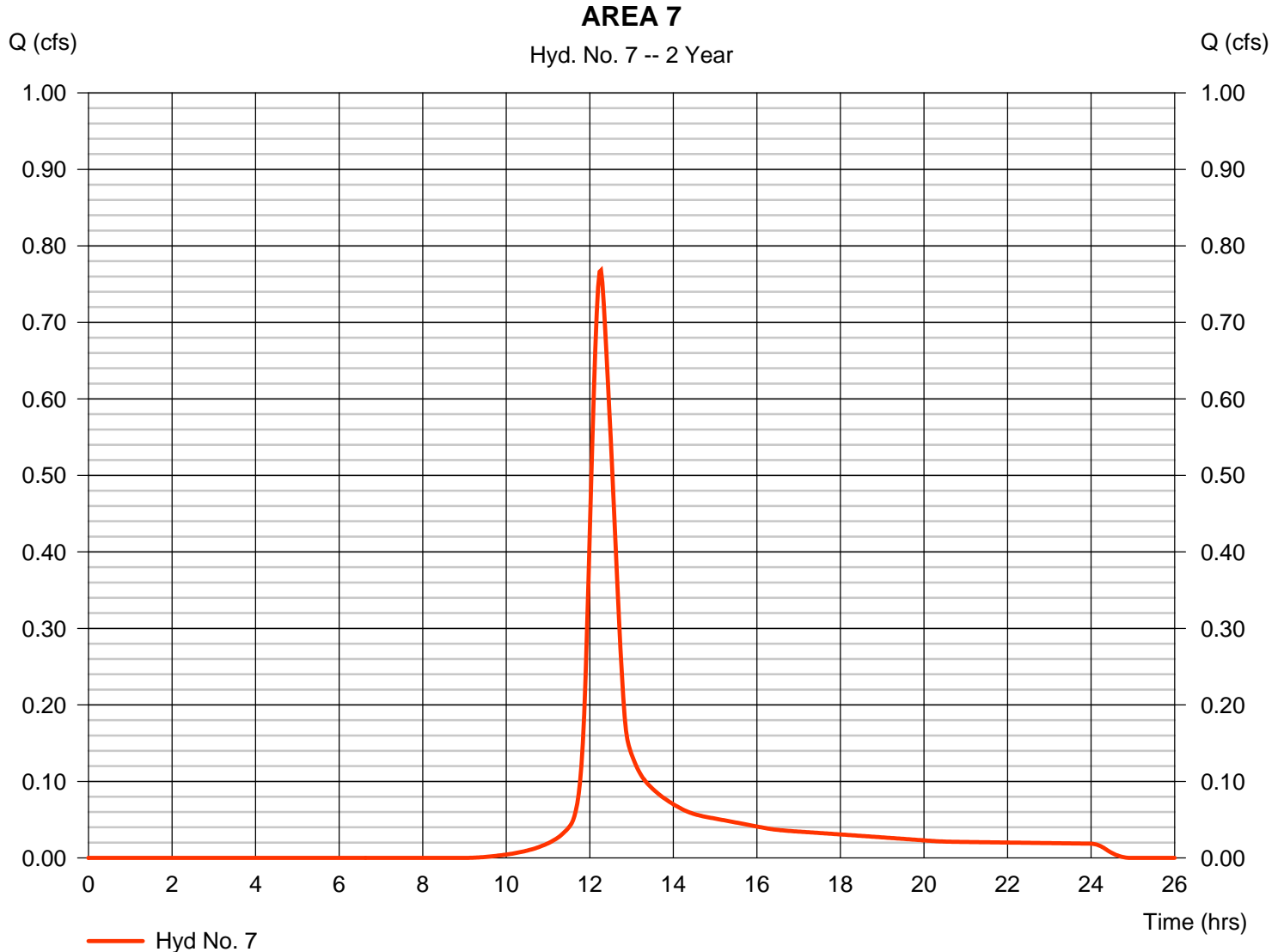
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 7

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 0.768 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.27 hrs
Time interval	= 2 min	Hyd. volume	= 0.081 acft
Drainage area	= 0.600 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 35.70 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

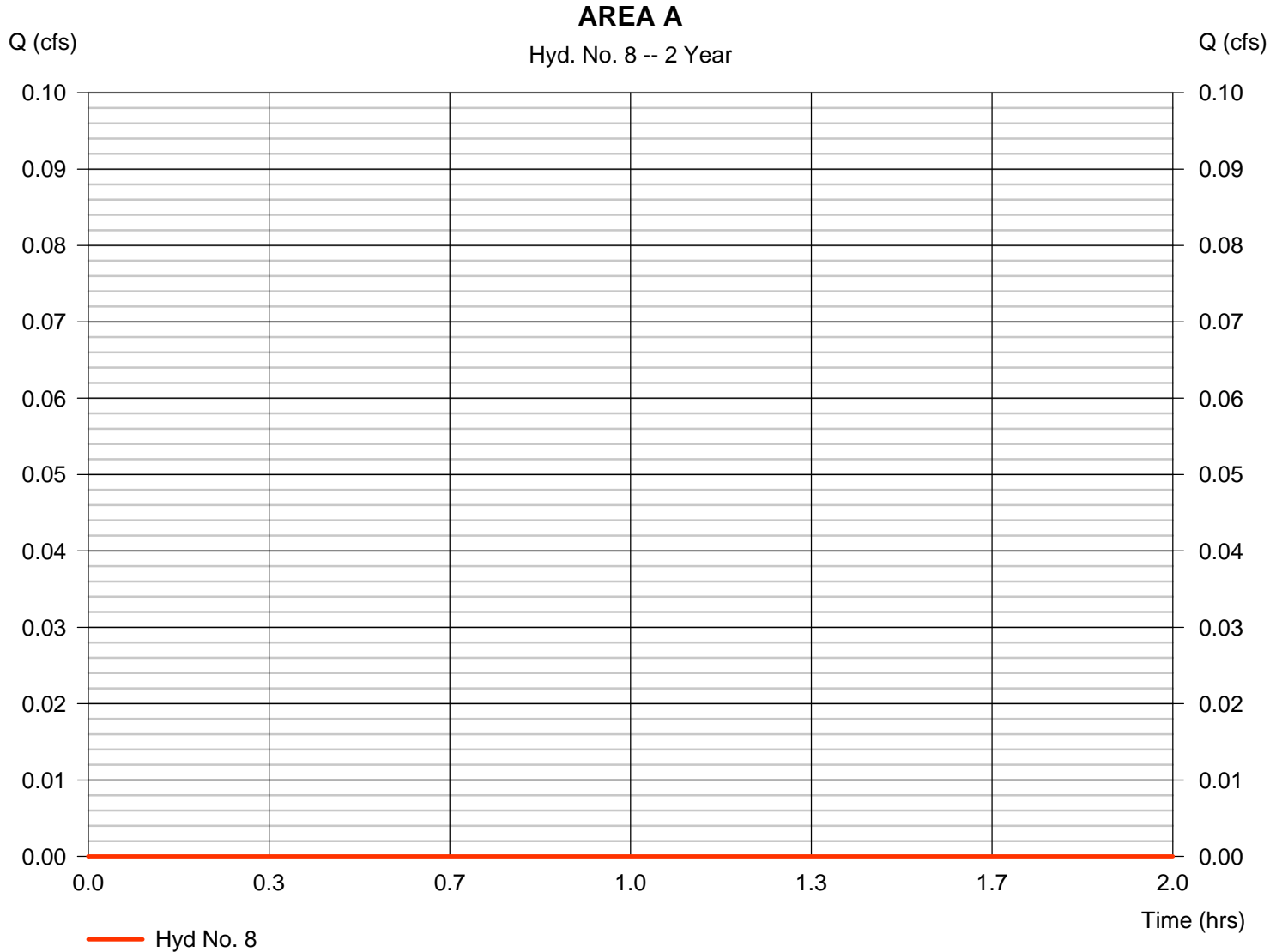
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 8

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.000 cfs
Storm frequency	= 2 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= 0.000 acft
Drainage area	= 3.850 ac	Curve number	= 35
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 34.80 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

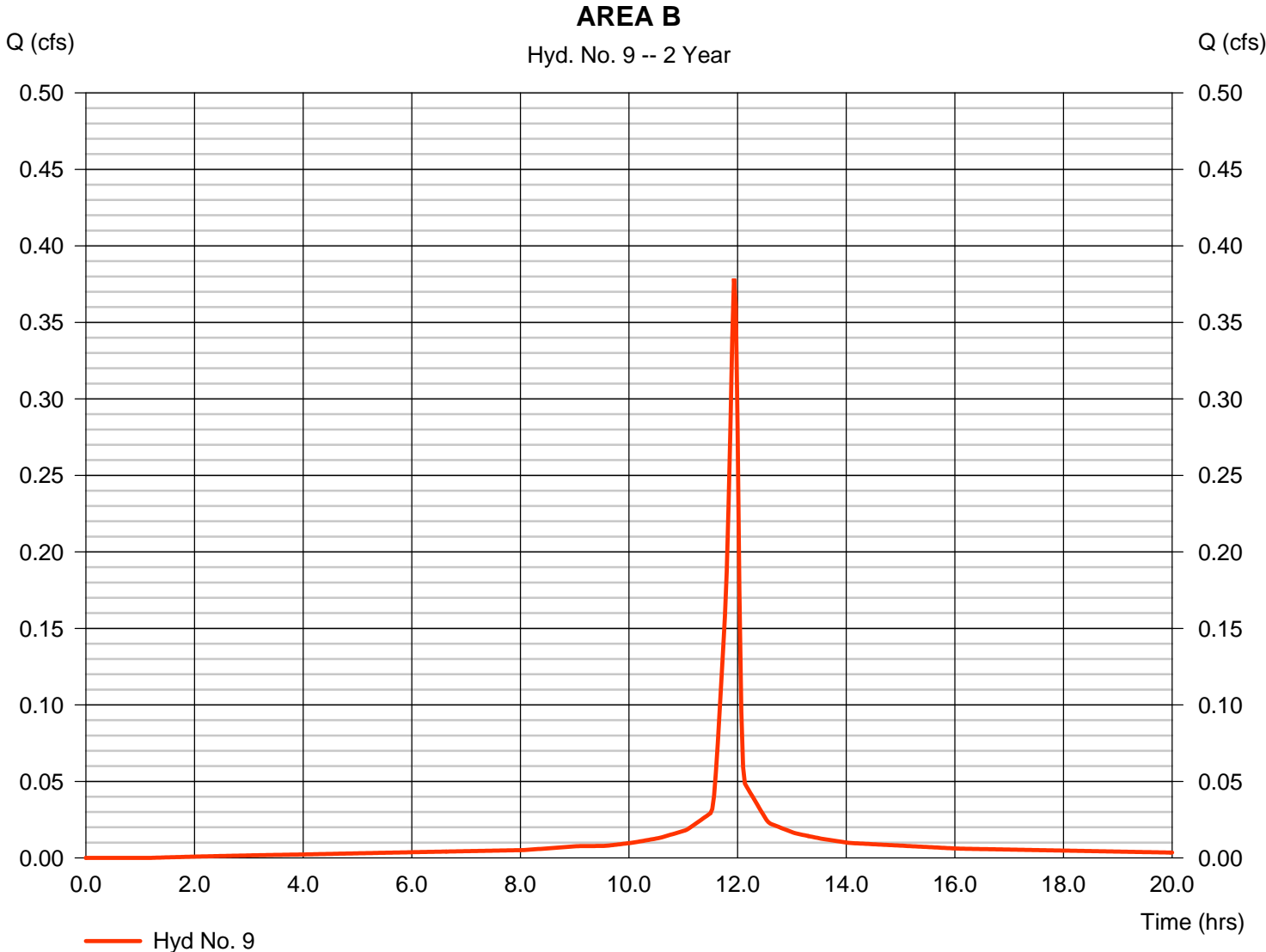


Hydrograph Report

Hyd. No. 9

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.379 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.020 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

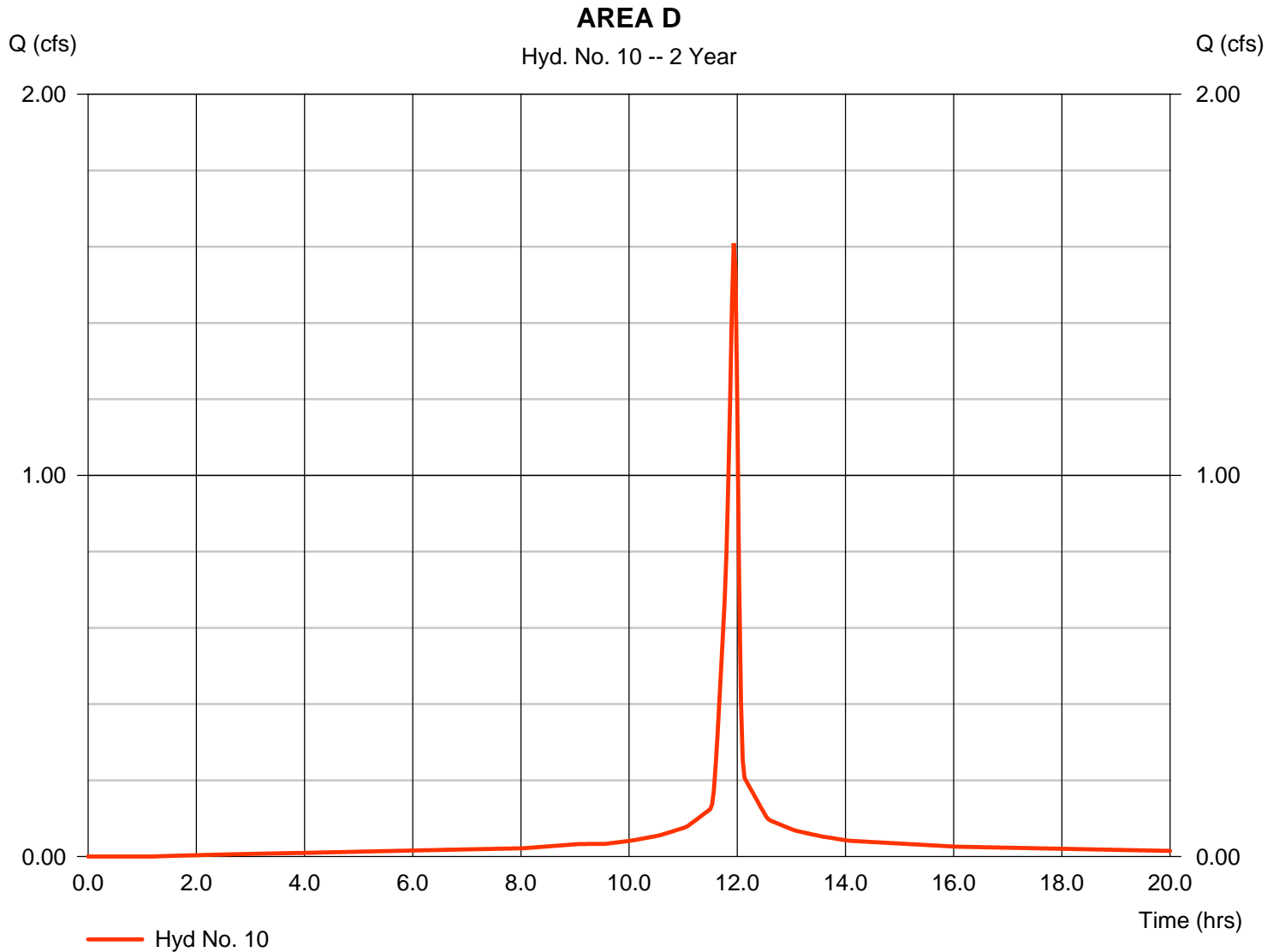
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 10

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 1.609 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.087 acft
Drainage area	= 0.340 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.20 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

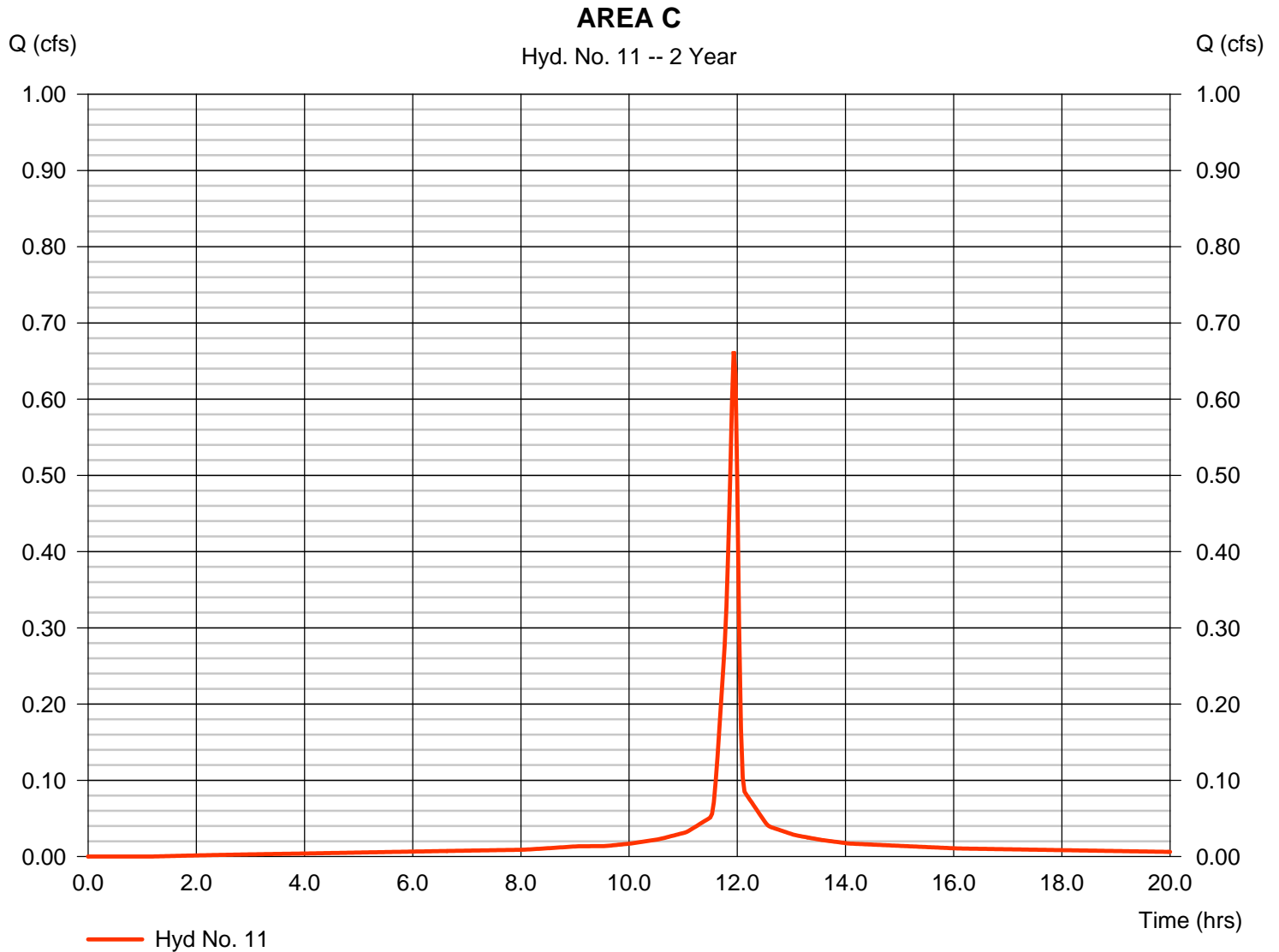
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 11

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 0.663 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.036 acft
Drainage area	= 0.140 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

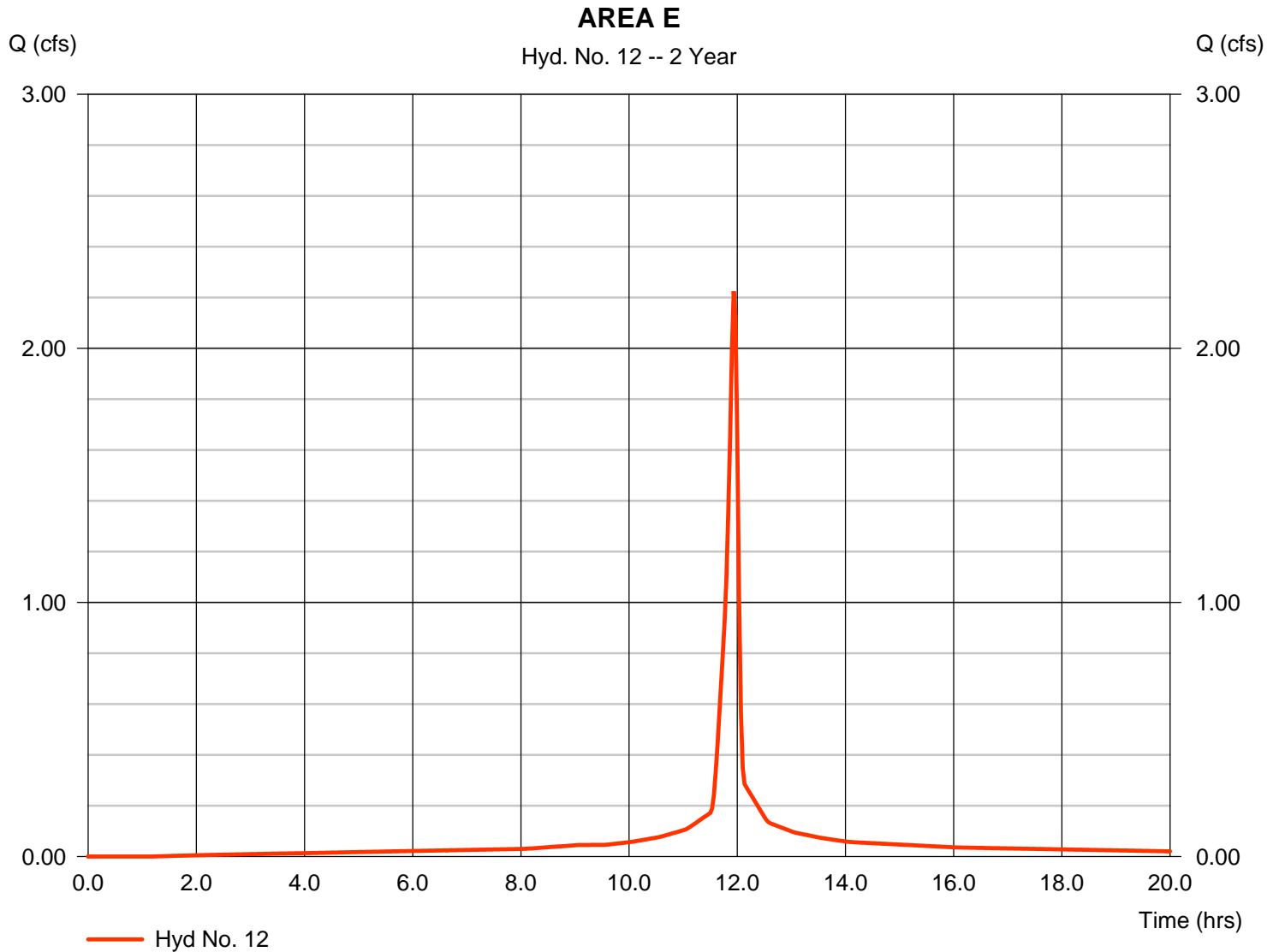
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 12

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 2.224 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.120 acft
Drainage area	= 0.470 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

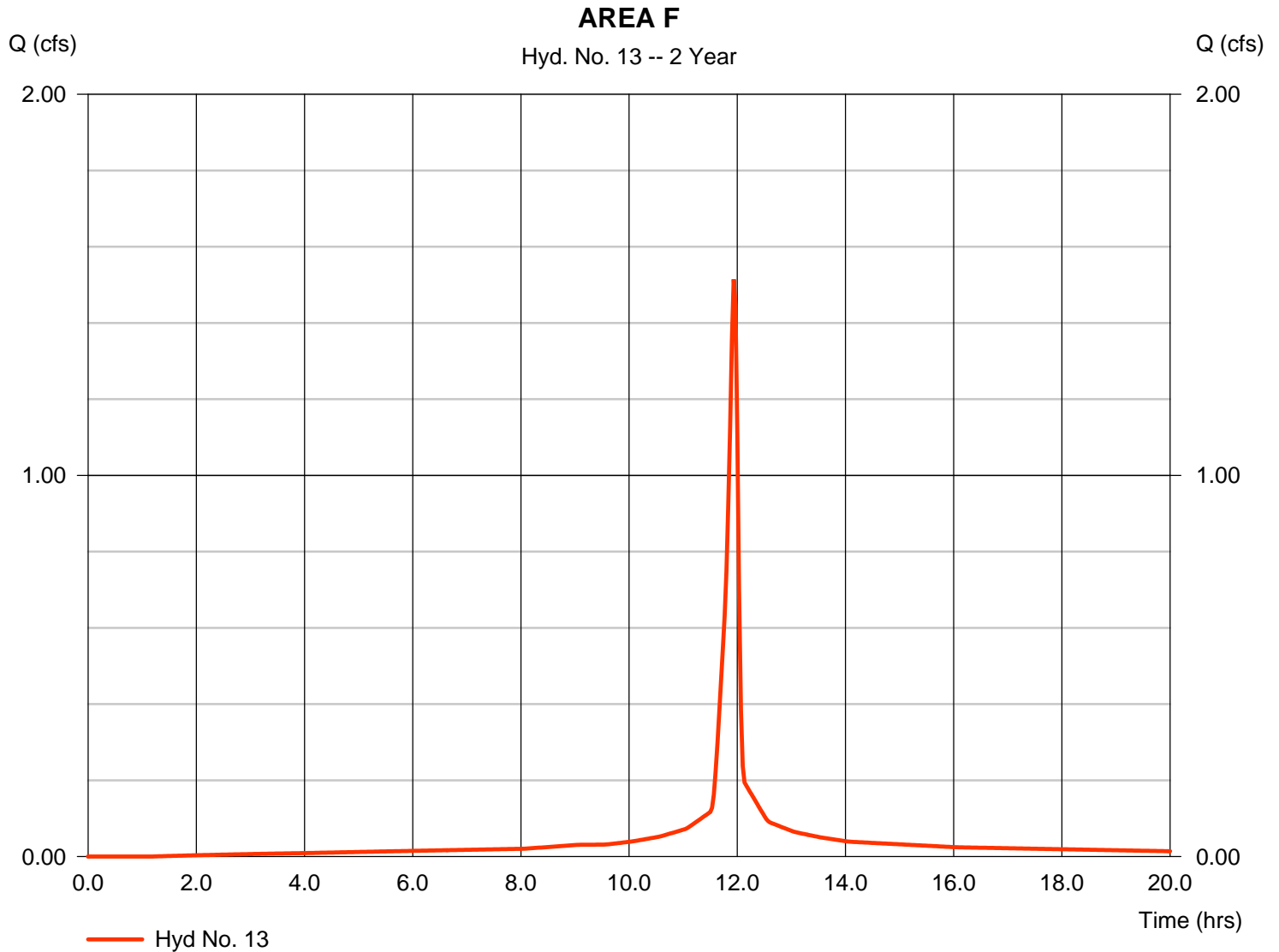
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 13

AREA F

Hydrograph type	= SCS Runoff	Peak discharge	= 1.514 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.082 acft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

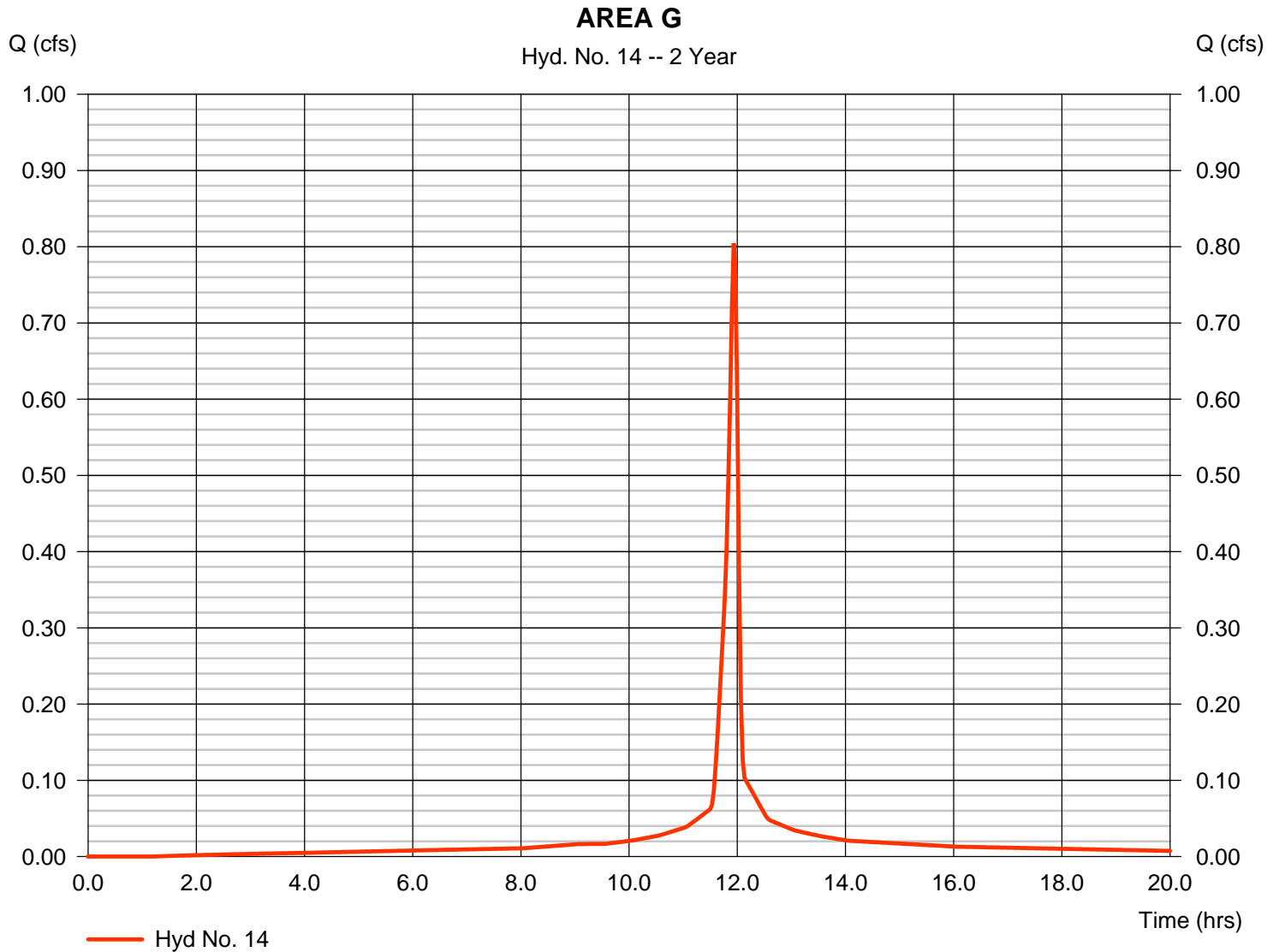
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 14

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 0.805 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.043 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.50 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

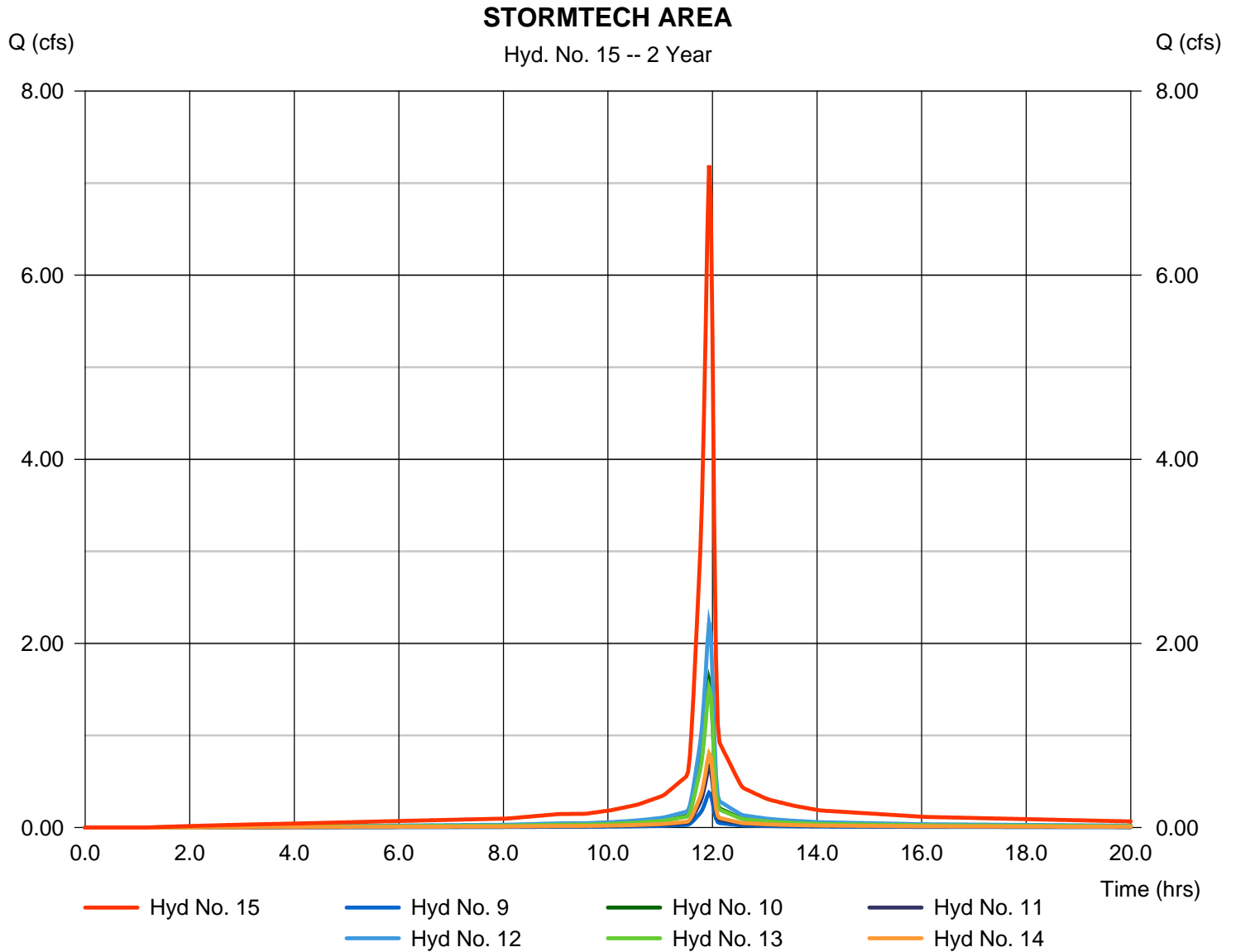
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 15

STORMTECH AREA

Hydrograph type	= Combine	Peak discharge	= 7.193 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.388 acft
Inflow hyds.	= 9, 10, 11, 12, 13, 14	Contrib. drain. area	= 1.520 ac



Hydrograph Report

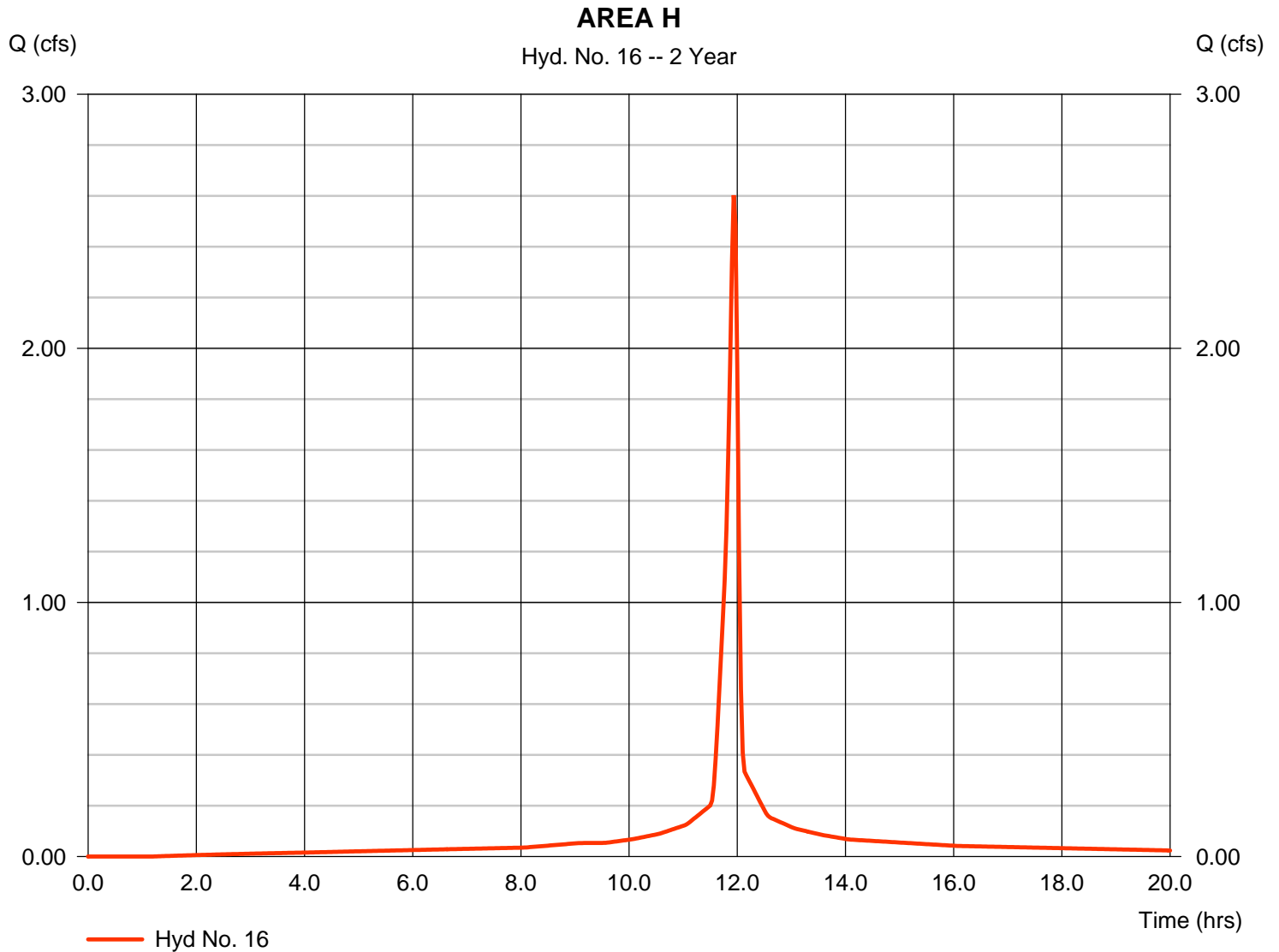
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 16

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 2.603 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.140 acft
Drainage area	= 0.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

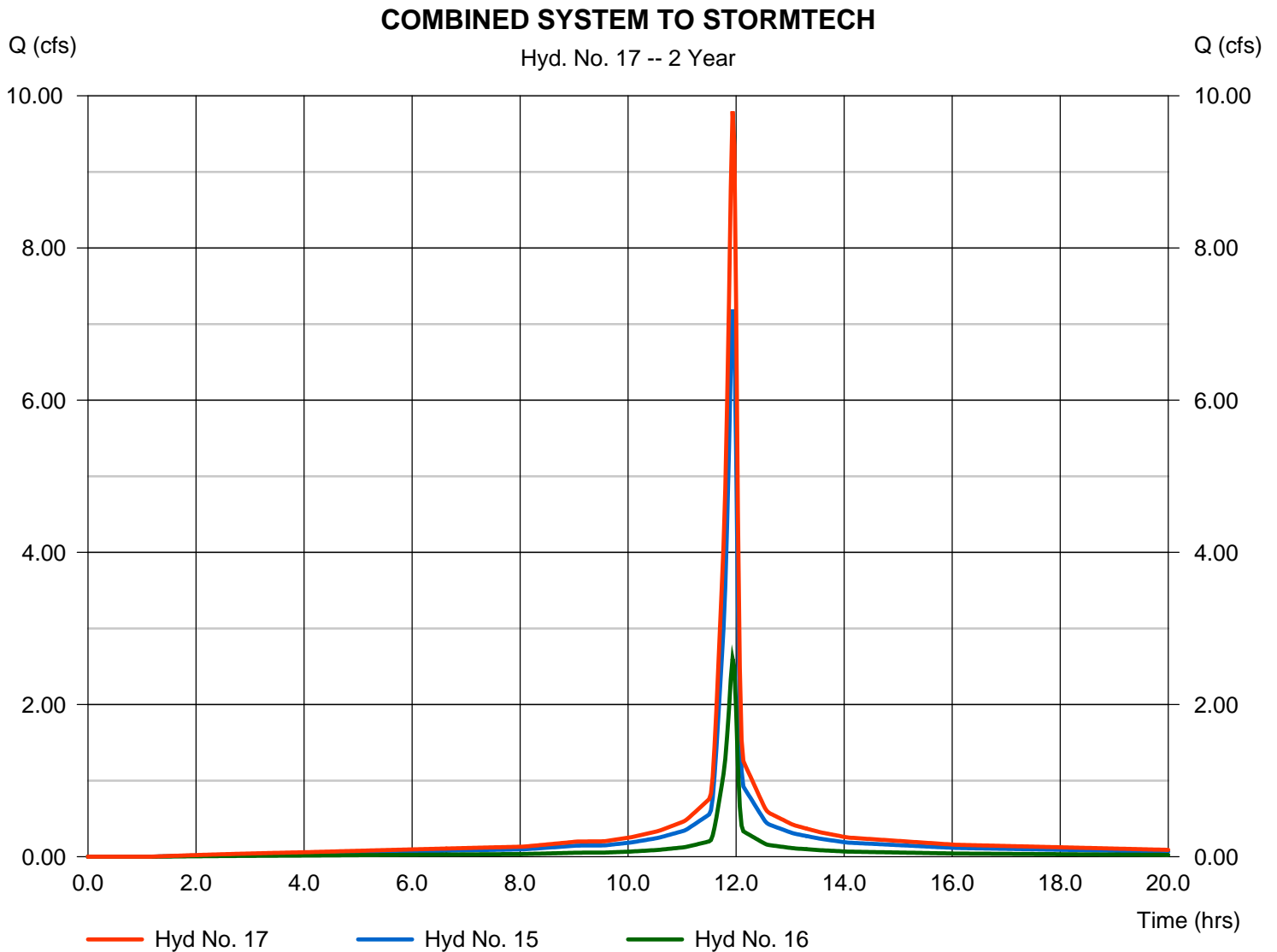
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 17

COMBINED SYSTEM TO STORMTECH

Hydrograph type	= Combine	Peak discharge	= 9.796 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.528 acft
Inflow hyds.	= 15, 16	Contrib. drain. area	= 0.550 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

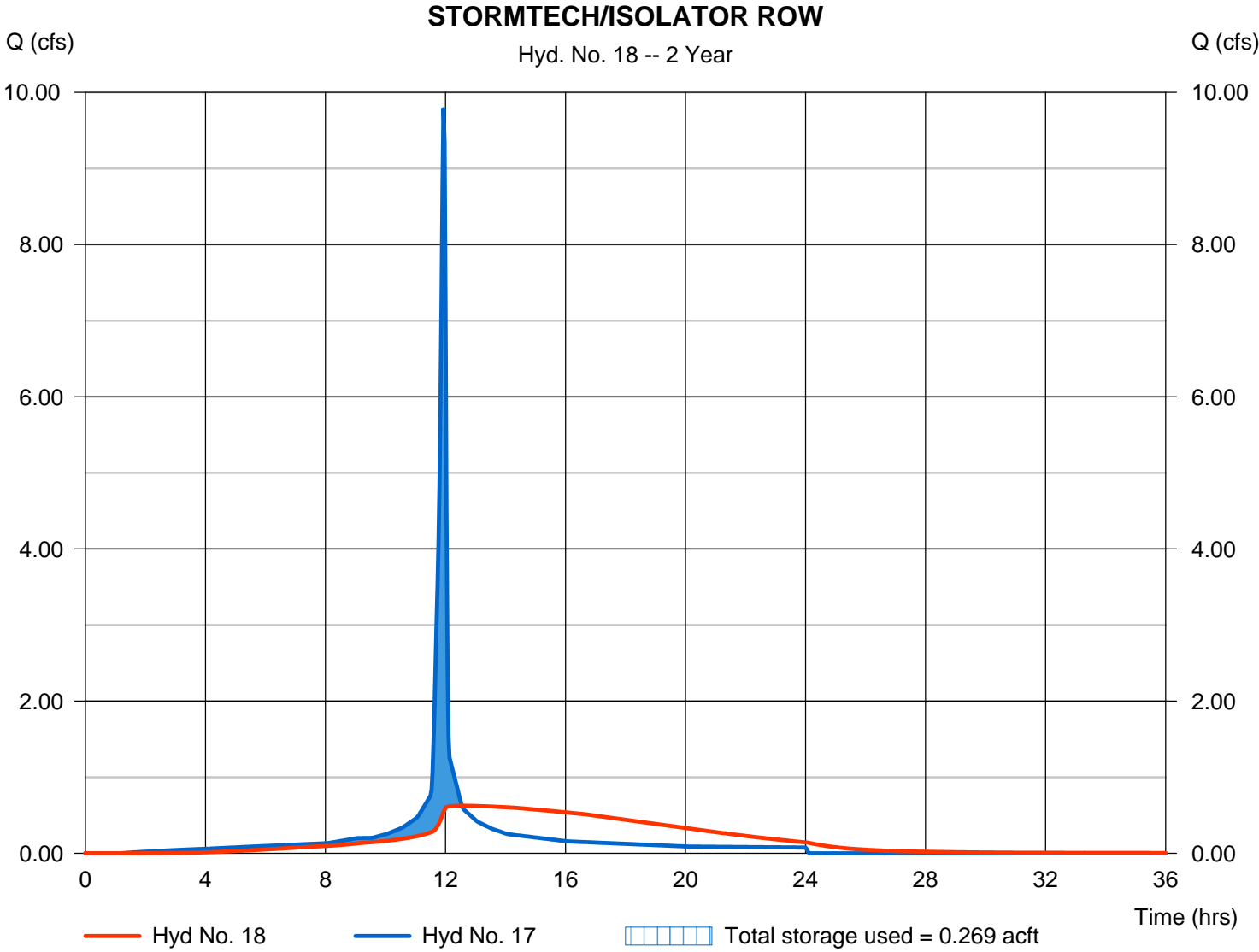
Friday, 00 6, 2012

Hyd. No. 18

STORMTECH/ISOLATOR ROW

Hydrograph type	= Reservoir	Peak discharge	= 0.625 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.53 hrs
Time interval	= 2 min	Hyd. volume	= 0.528 acft
Inflow hyd. No.	= 17 - COMBINED SYSTEM TO STORMTECH	Storm elevation	= 1342.38 ft
Reservoir name	= STORMTECH 3500	Max. Storage	= 0.269 acft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description	
1	SCS Runoff	10.59	2	732	1.053	-----	-----	-----	AREA 1	
2	SCS Runoff	0.958	2	728	0.081	-----	-----	-----	AREA 2	
3	SCS Runoff	0.800	2	724	0.057	-----	-----	-----	AREA 3	
4	SCS Runoff	3.176	2	716	0.173	-----	-----	-----	AREA 4	
5	SCS Runoff	3.436	2	716	0.161	-----	-----	-----	AREA 5	
6	SCS Runoff	1.718	2	716	0.080	-----	-----	-----	AREA 6	
7	SCS Runoff	1.167	2	734	0.122	-----	-----	-----	AREA 7	
8	SCS Runoff	0.015	2	1440	0.010	-----	-----	-----	AREA A	
9	SCS Runoff	0.489	2	716	0.027	-----	-----	-----	AREA B	
10	SCS Runoff	2.077	2	716	0.113	-----	-----	-----	AREA D	
11	SCS Runoff	0.855	2	716	0.047	-----	-----	-----	AREA C	
12	SCS Runoff	2.871	2	716	0.157	-----	-----	-----	AREA E	
13	SCS Runoff	1.955	2	716	0.107	-----	-----	-----	AREA F	
14	SCS Runoff	1.038	2	716	0.057	-----	-----	-----	AREA G	
15	Combine	9.285	2	716	0.506	9, 10, 11, 12, 13, 14	-----	-----	STORMTECH AREA	
16	SCS Runoff	3.360	2	716	0.183	-----	-----	-----	AREA H	
17	Combine	12.64	2	716	0.690	15, 16	-----	-----	COMBINED SYSTEM TO STORMTE	
18	Reservoir	0.687	2	764	0.689	17	1342.84	0.358	STORMTECH/ISOLATOR ROW	
13TH AND MAIZE 3.16.12.gpw					Return Period: 5 Year			Friday, 00 6, 2012		

Hydrograph Report

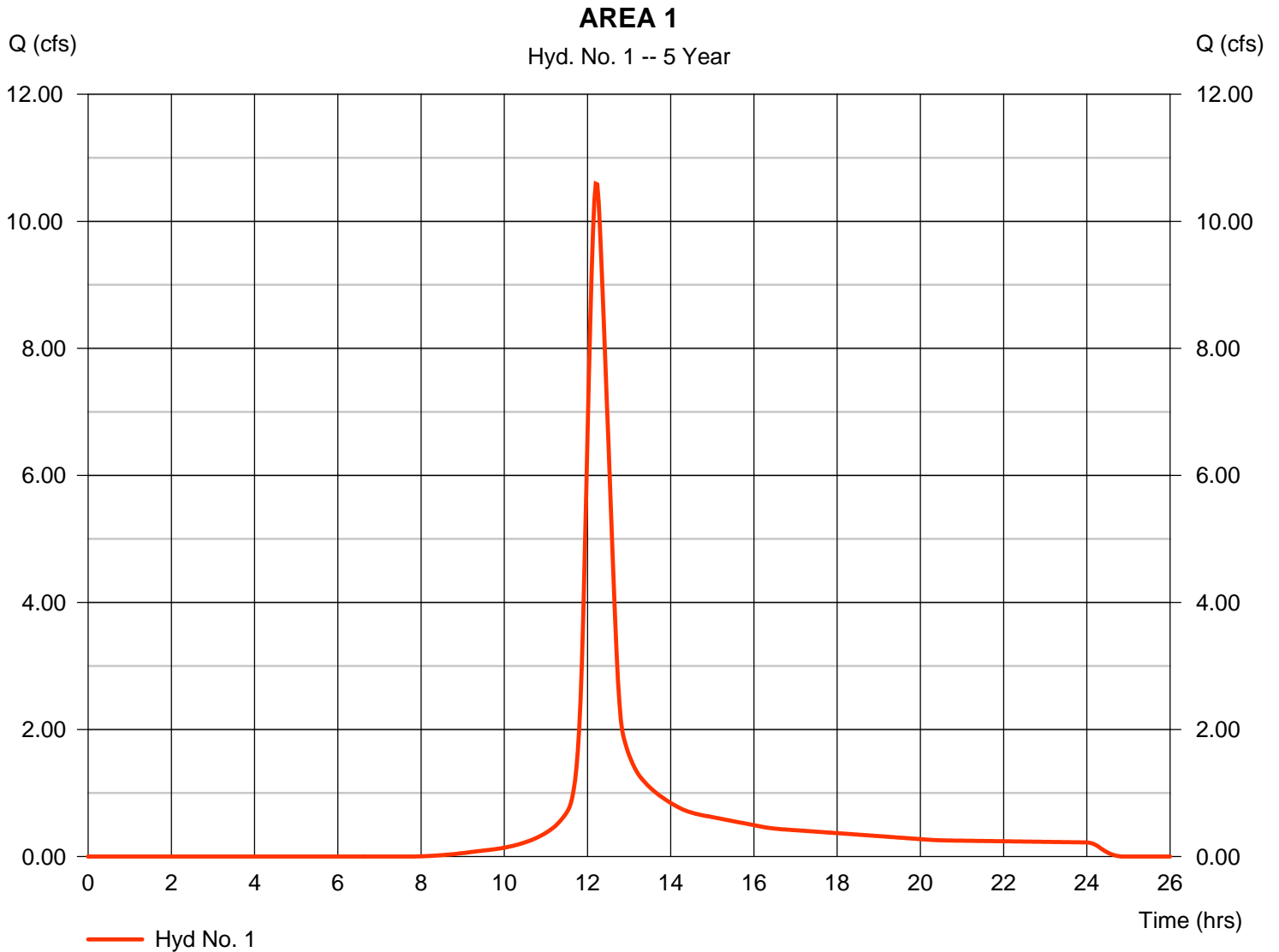
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 1

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 10.59 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 1.053 acft
Drainage area	= 5.070 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 32.10 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

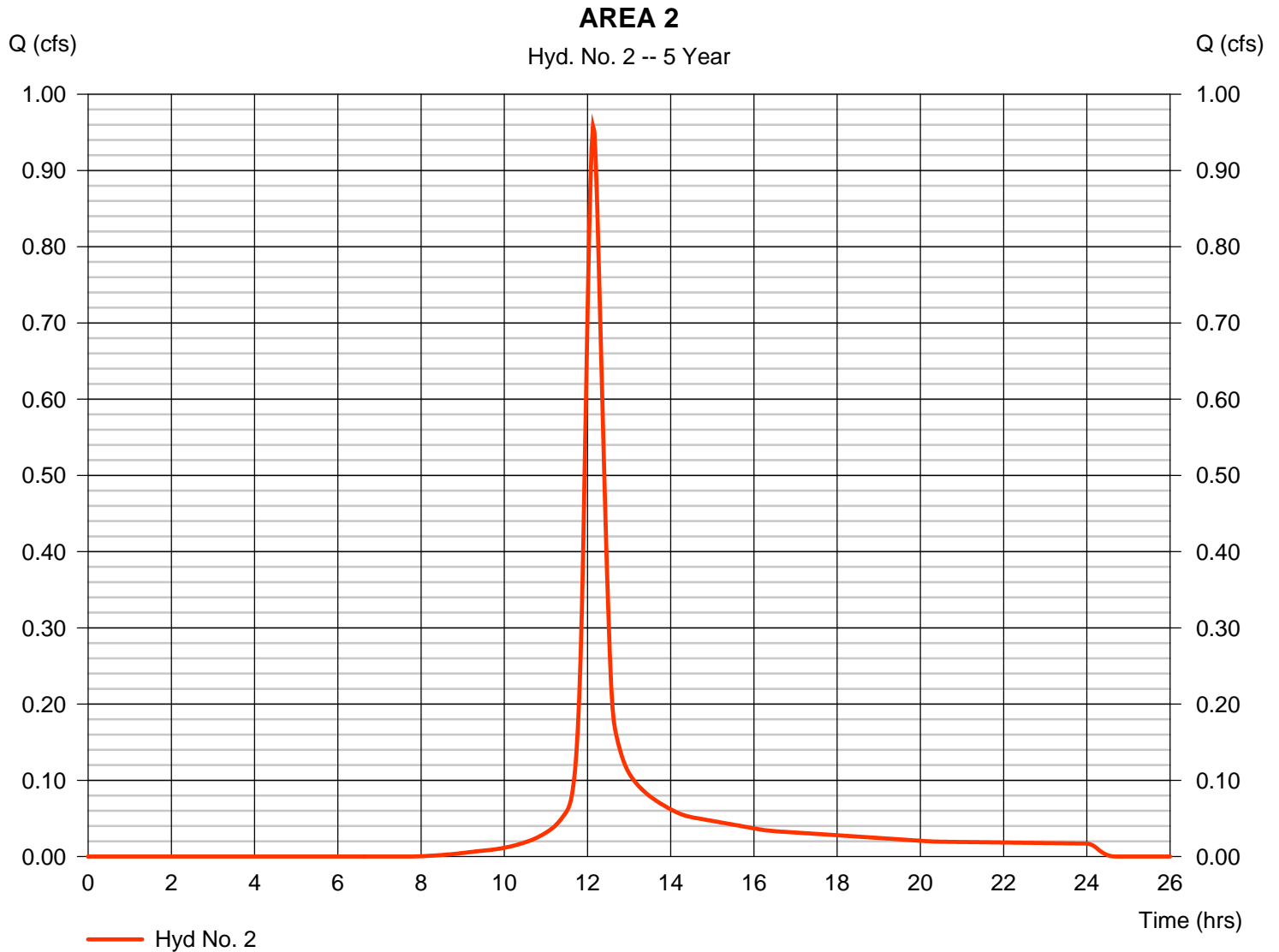
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 2

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.958 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 0.081 acft
Drainage area	= 0.400 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 25.30 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

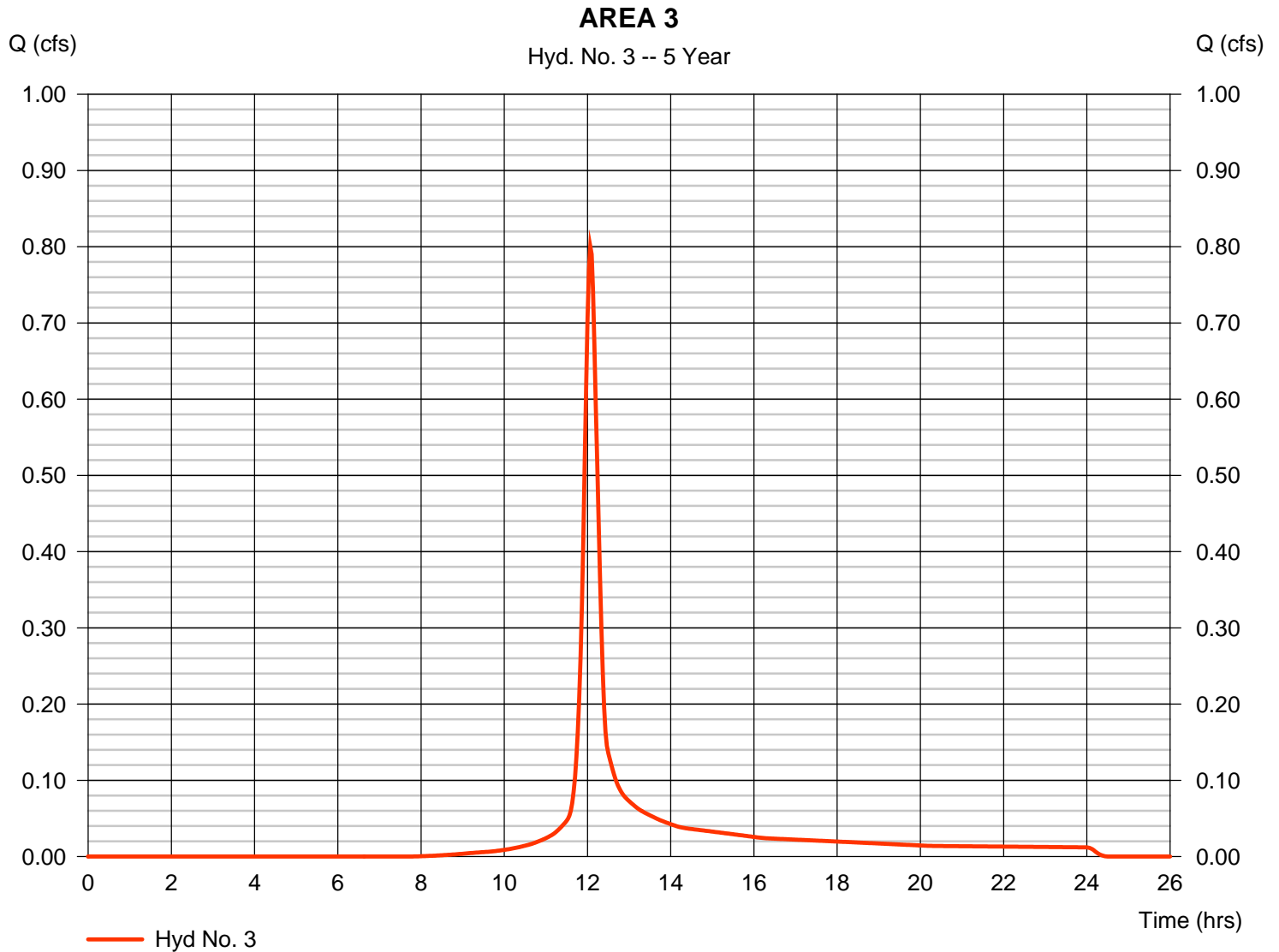
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 3

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.800 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 0.057 acft
Drainage area	= 0.280 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.40 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

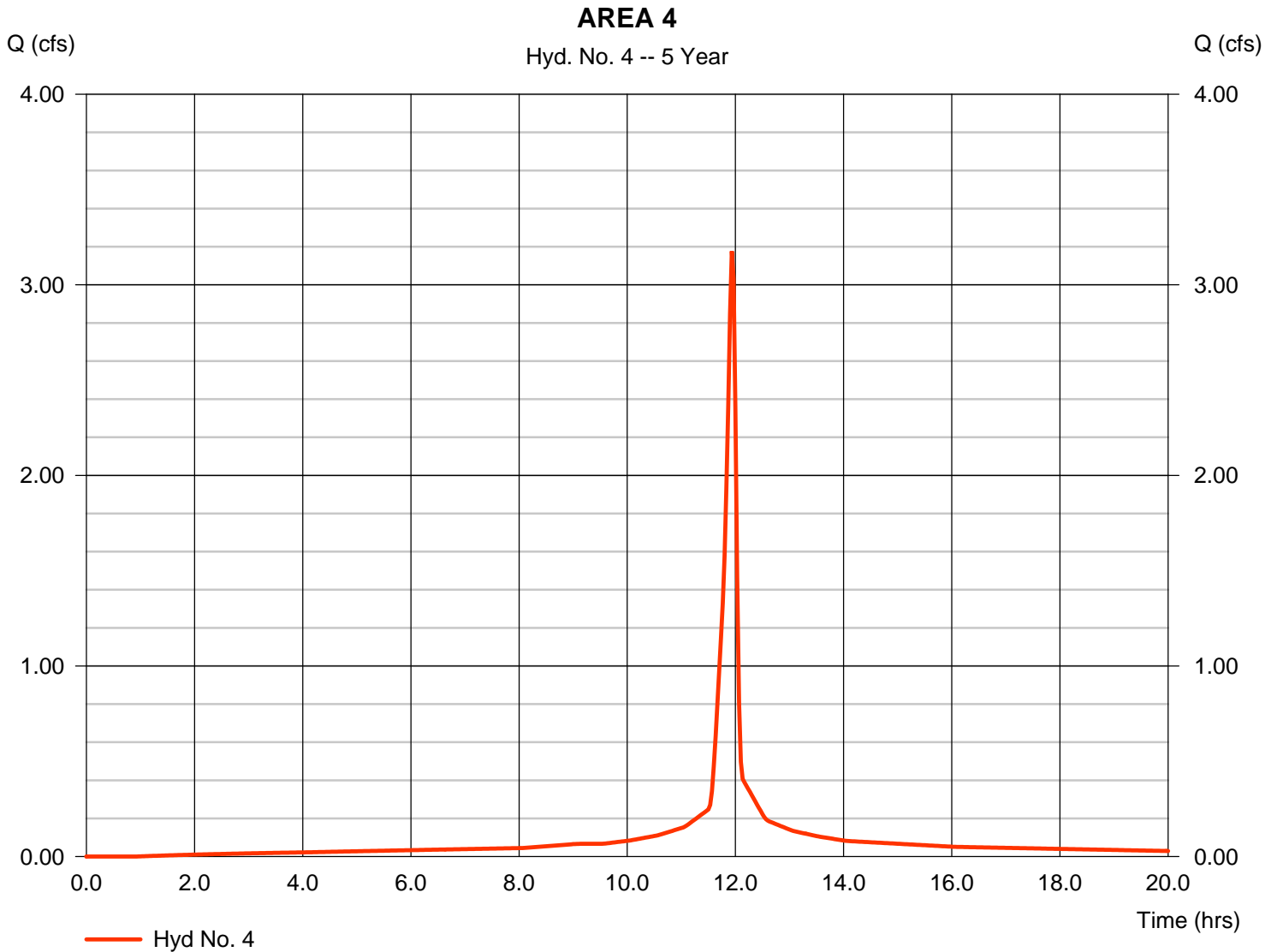
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 4

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 3.176 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.173 acft
Drainage area	= 0.520 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

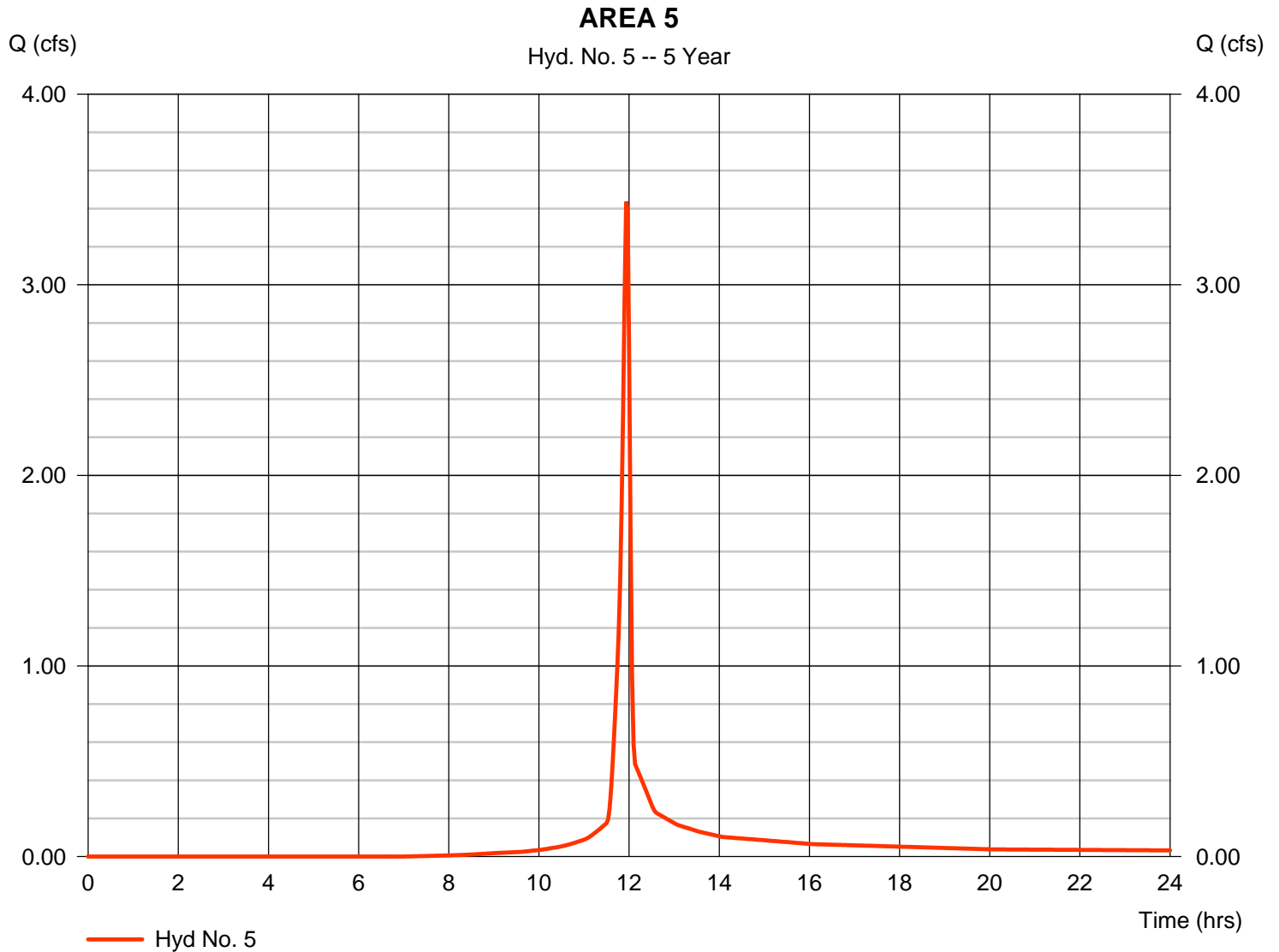
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 5

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 3.436 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.161 acft
Drainage area	= 0.780 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.90 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

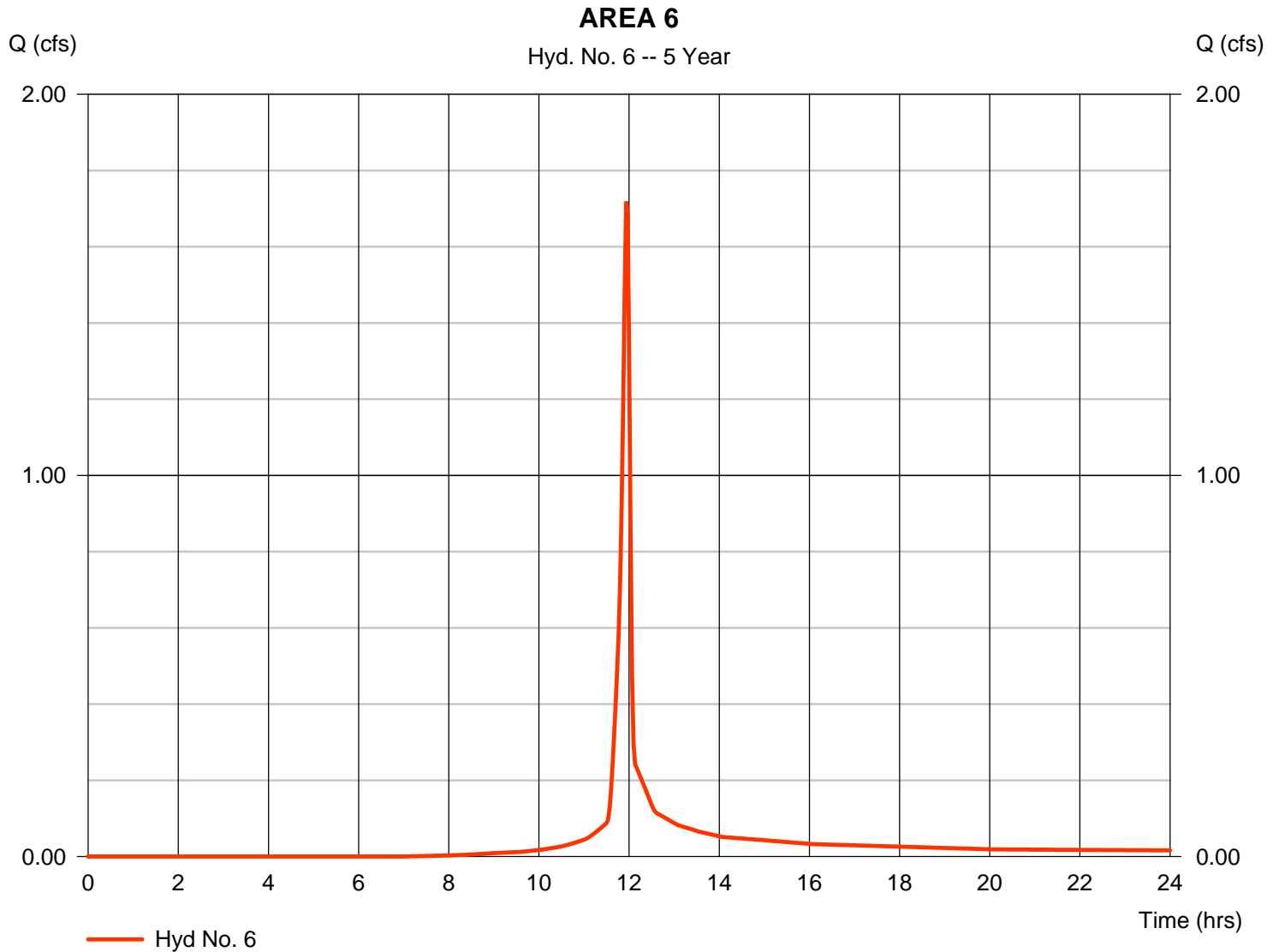
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 6

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 1.718 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.080 acft
Drainage area	= 0.390 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

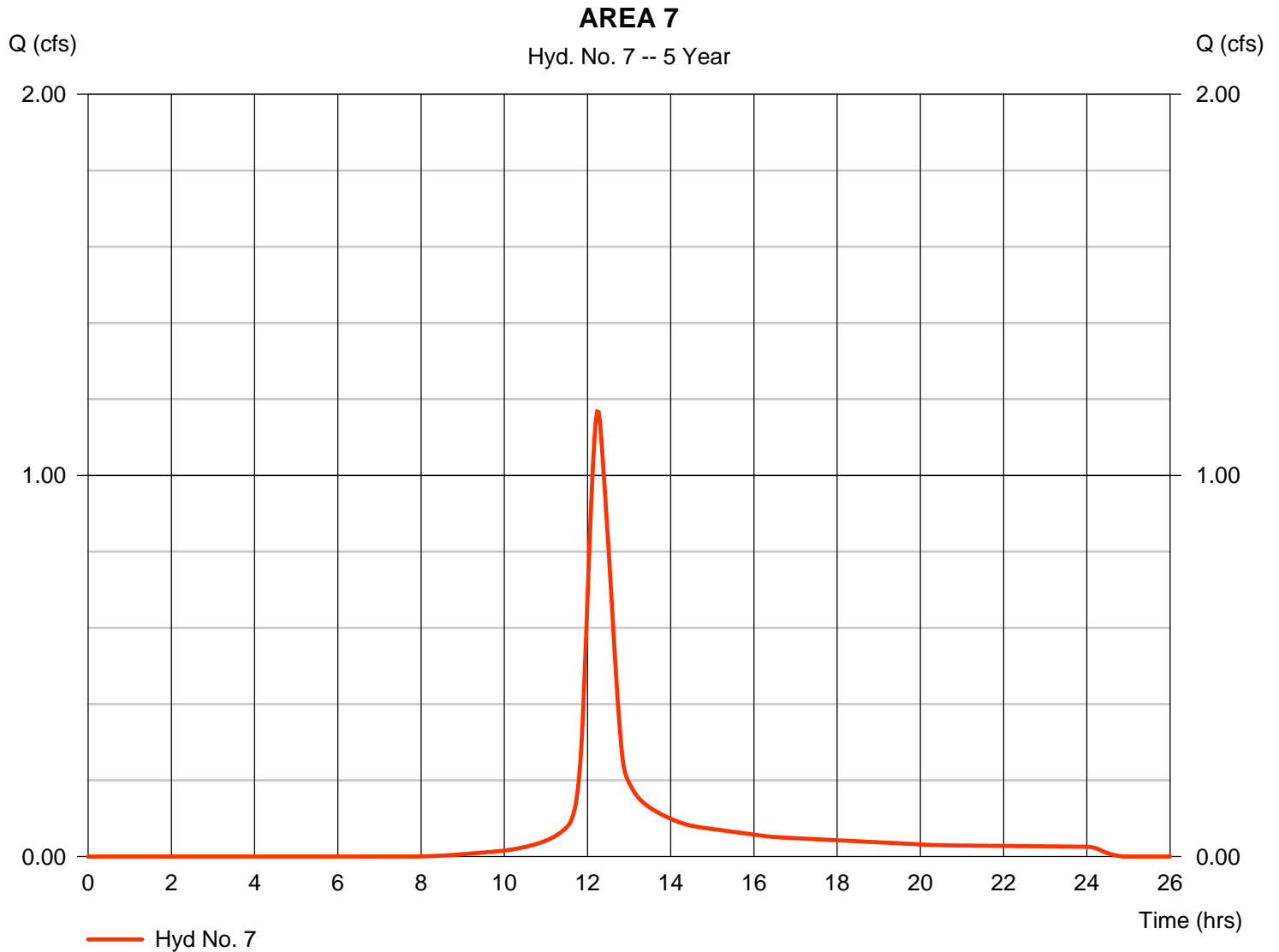
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 7

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 1.167 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.23 hrs
Time interval	= 2 min	Hyd. volume	= 0.122 acft
Drainage area	= 0.600 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 35.70 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

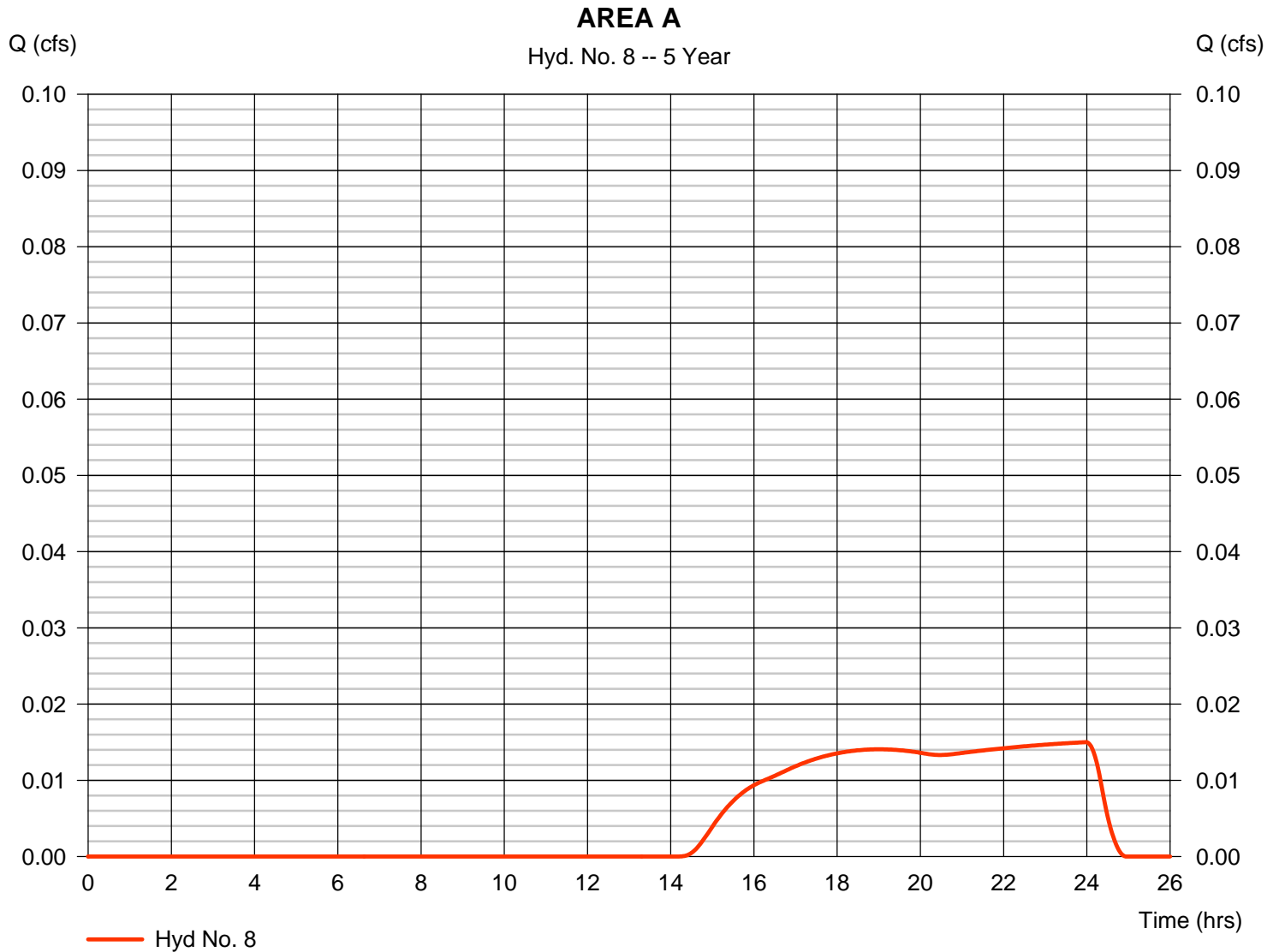
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 8

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.015 cfs
Storm frequency	= 5 yrs	Time to peak	= 24.00 hrs
Time interval	= 2 min	Hyd. volume	= 0.010 acft
Drainage area	= 3.850 ac	Curve number	= 35
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 34.80 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

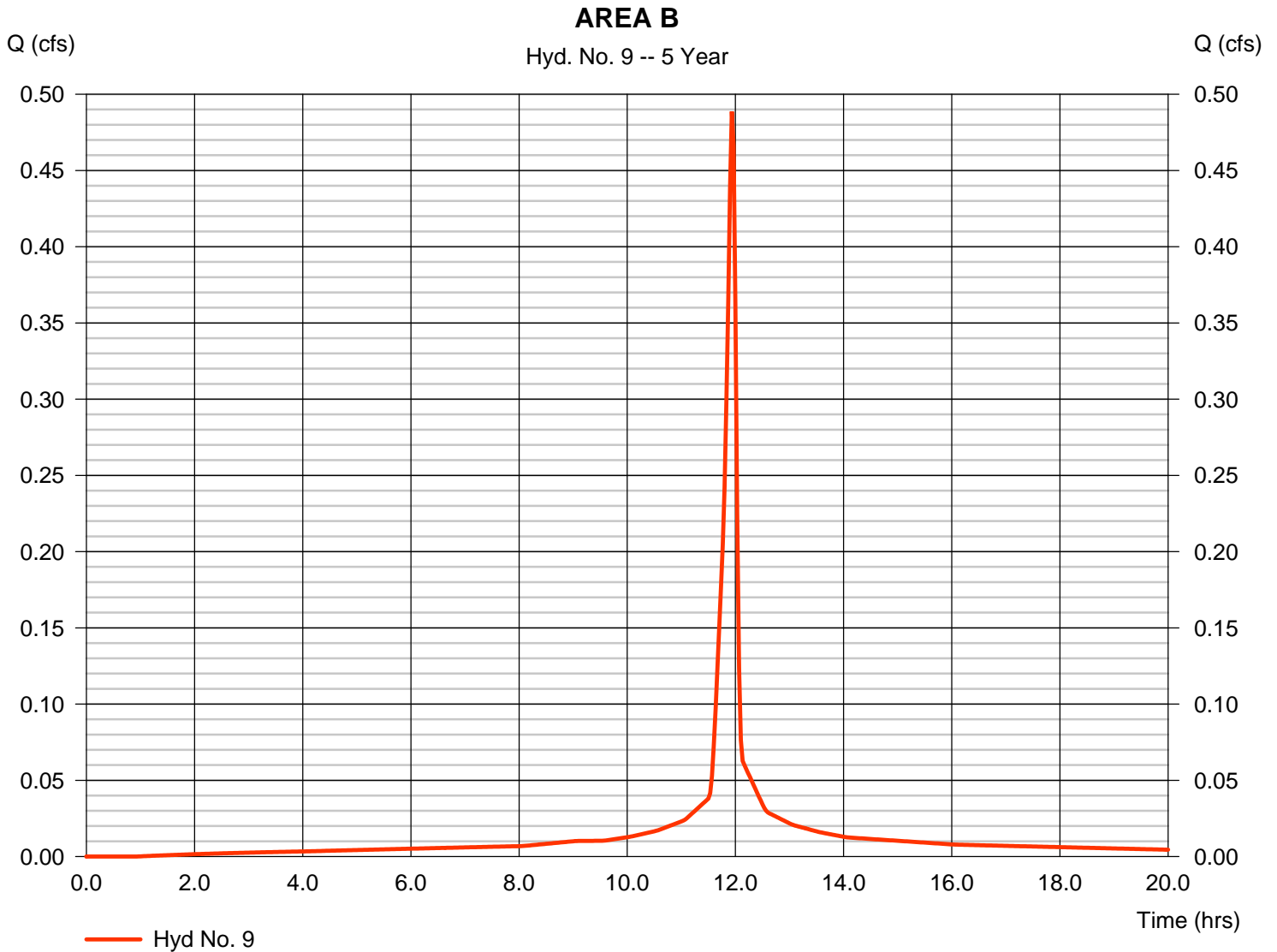
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 9

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.489 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.027 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

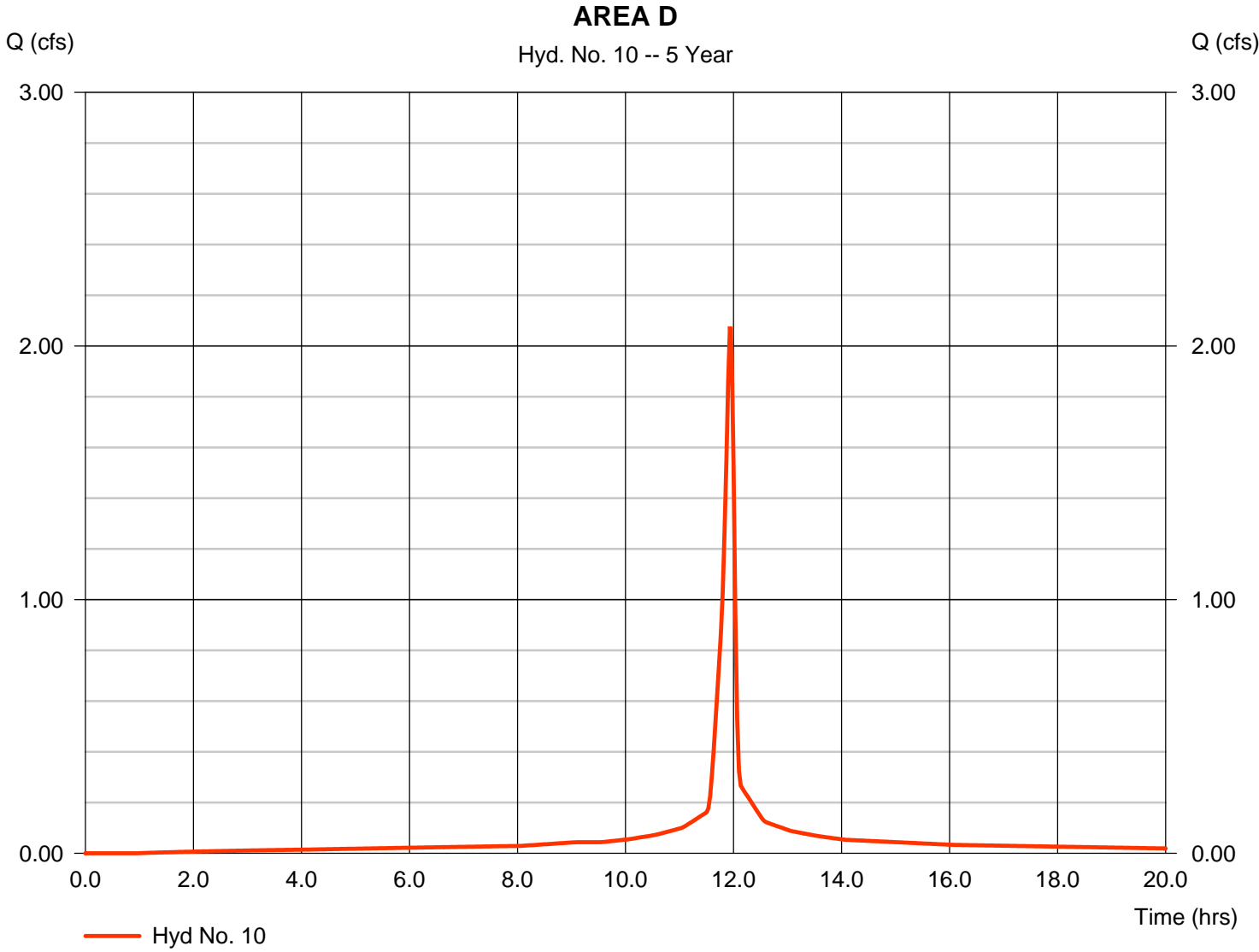


Hydrograph Report

Hyd. No. 10

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 2.077 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.113 acft
Drainage area	= 0.340 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.20 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

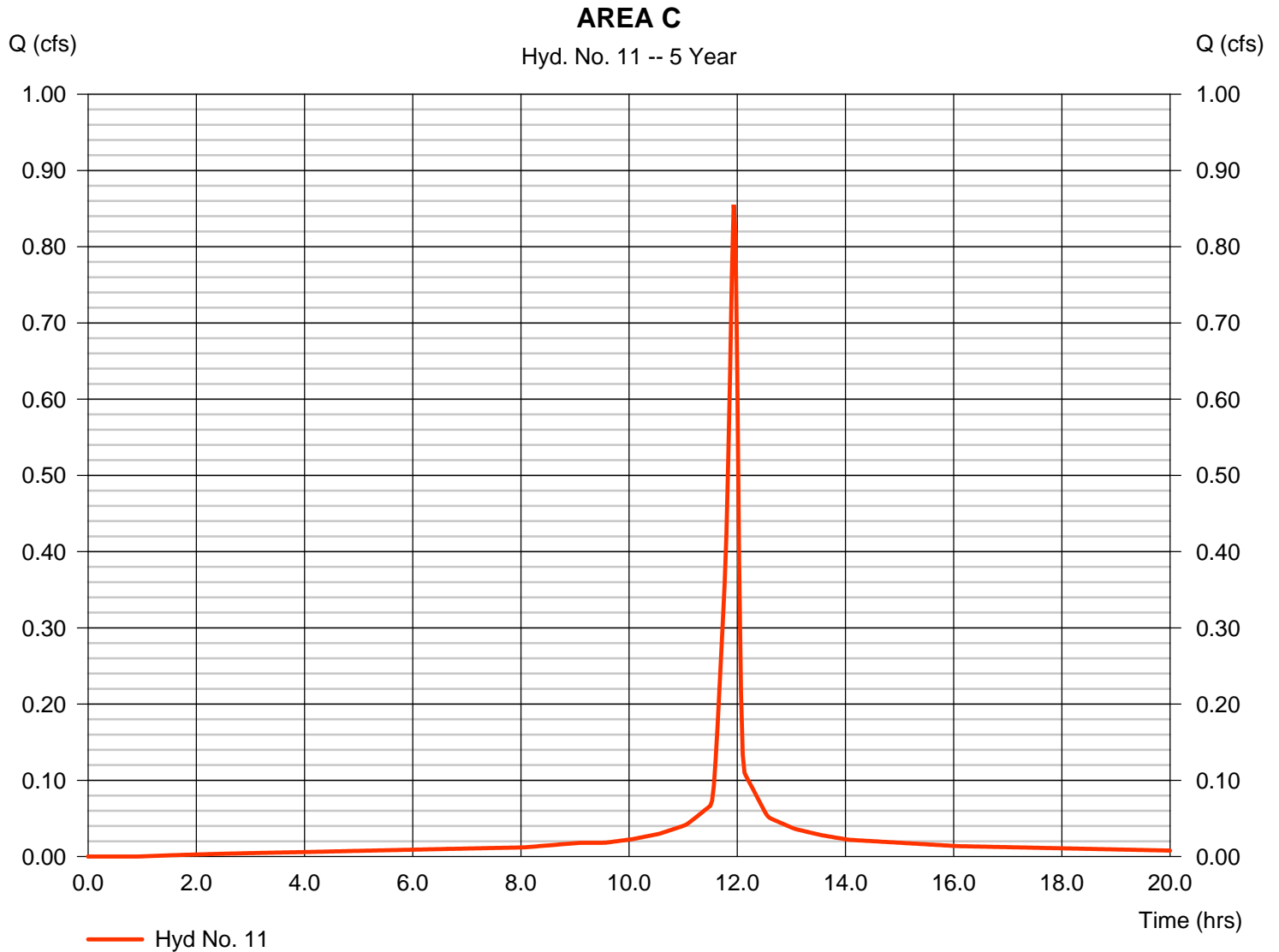
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 11

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 0.855 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.047 acft
Drainage area	= 0.140 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

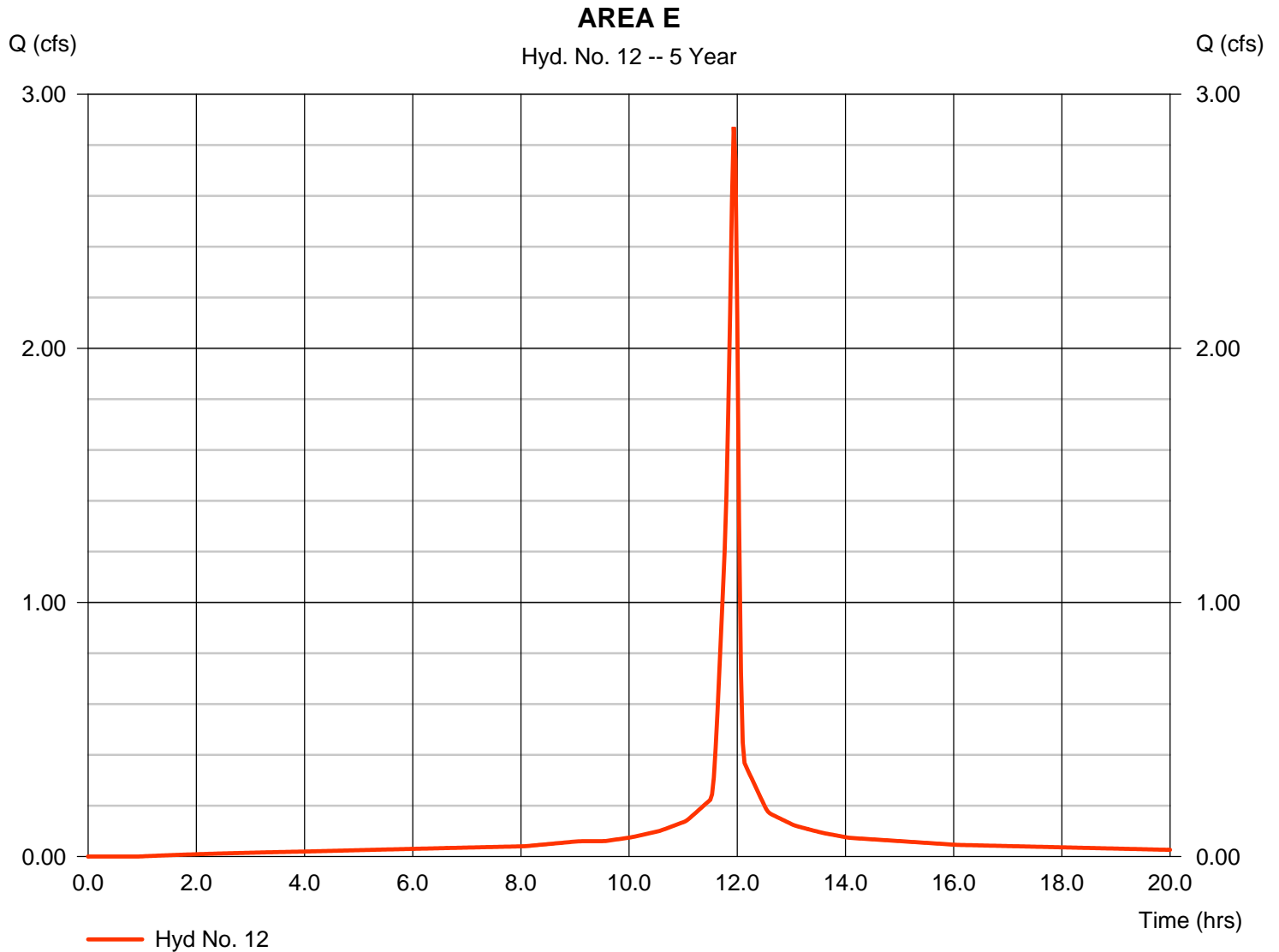
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 12

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 2.871 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.157 acft
Drainage area	= 0.470 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

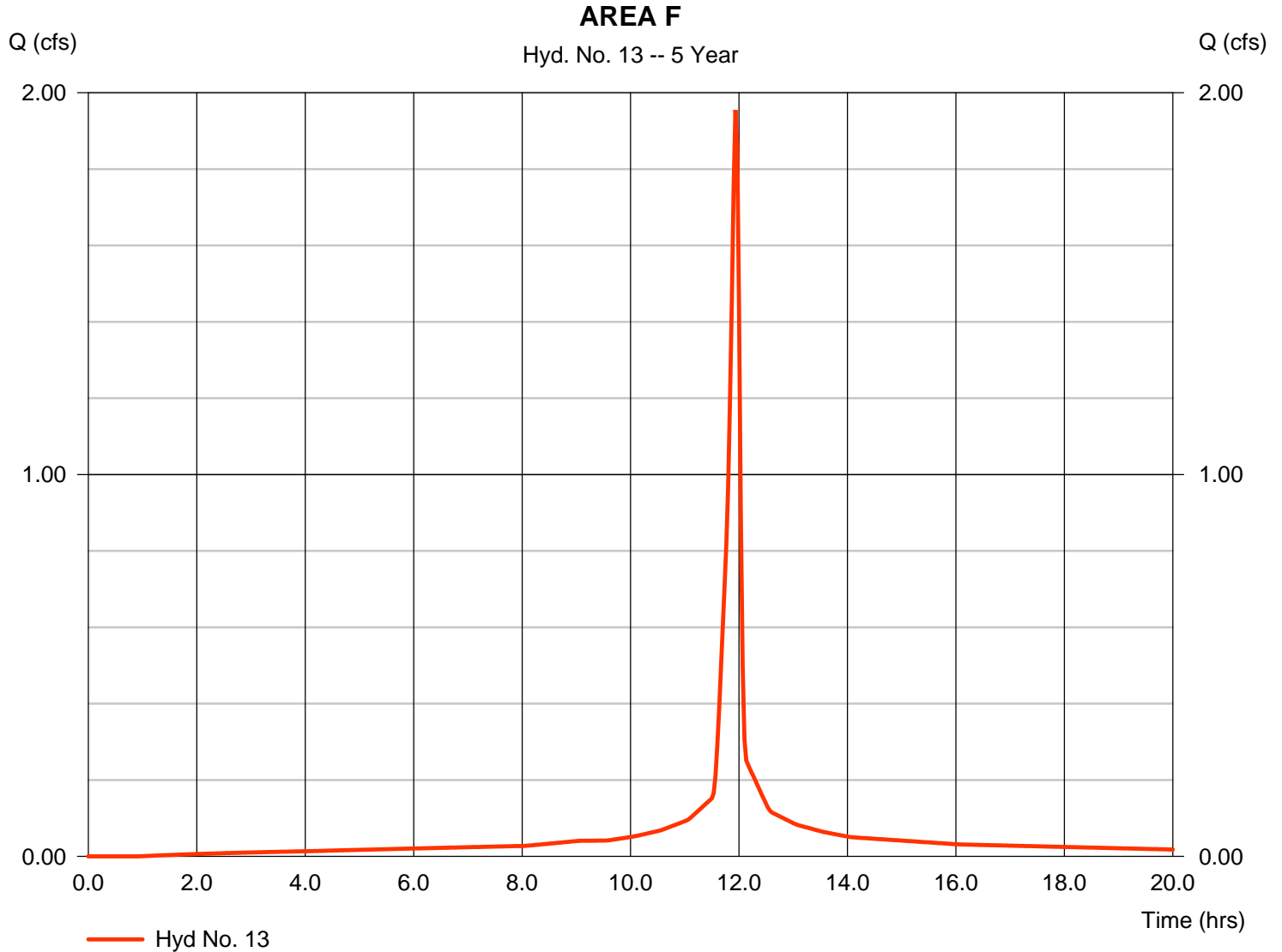
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 13

AREA F

Hydrograph type	= SCS Runoff	Peak discharge	= 1.955 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.107 acft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

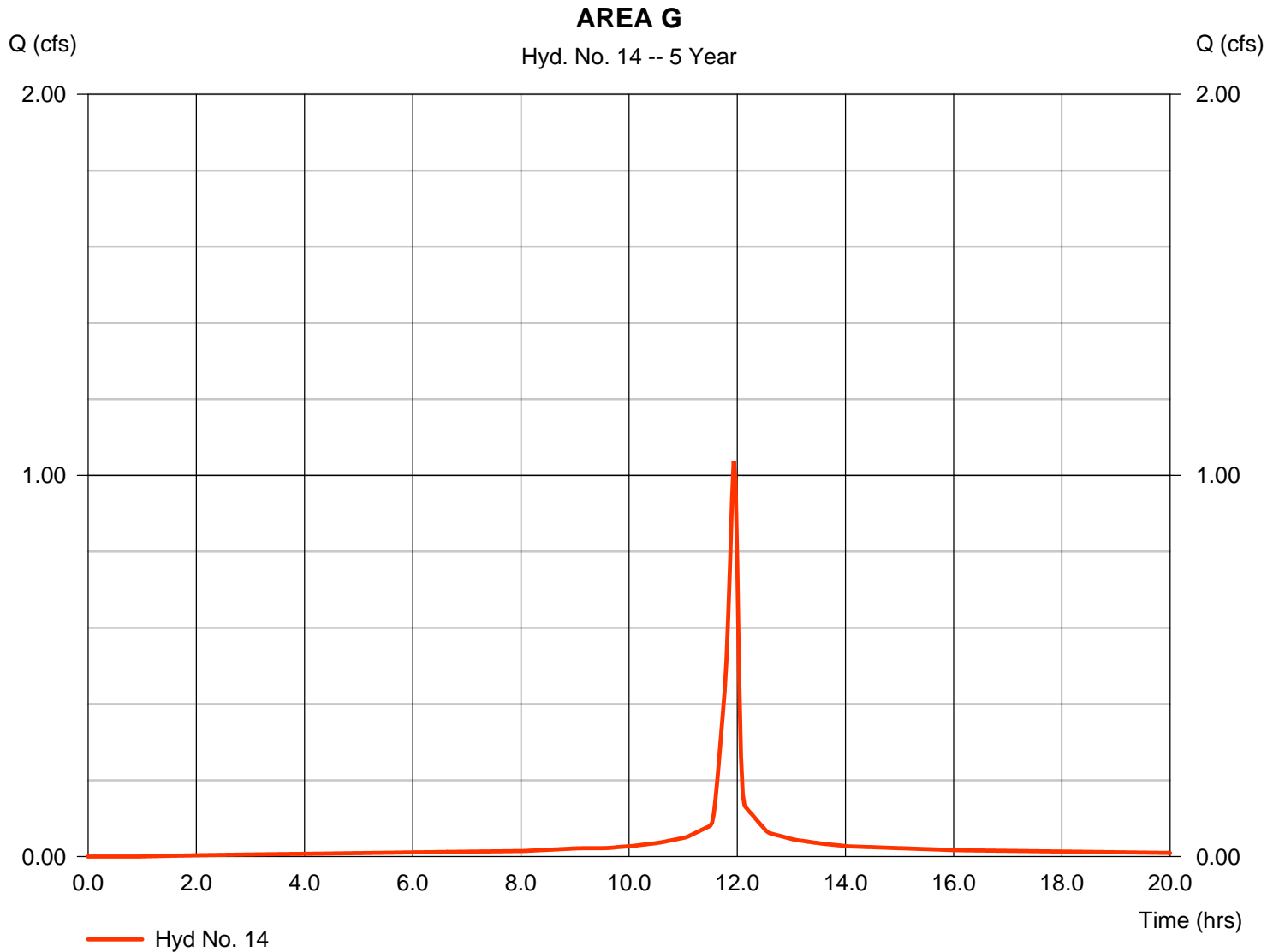
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 14

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 1.038 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.057 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.50 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

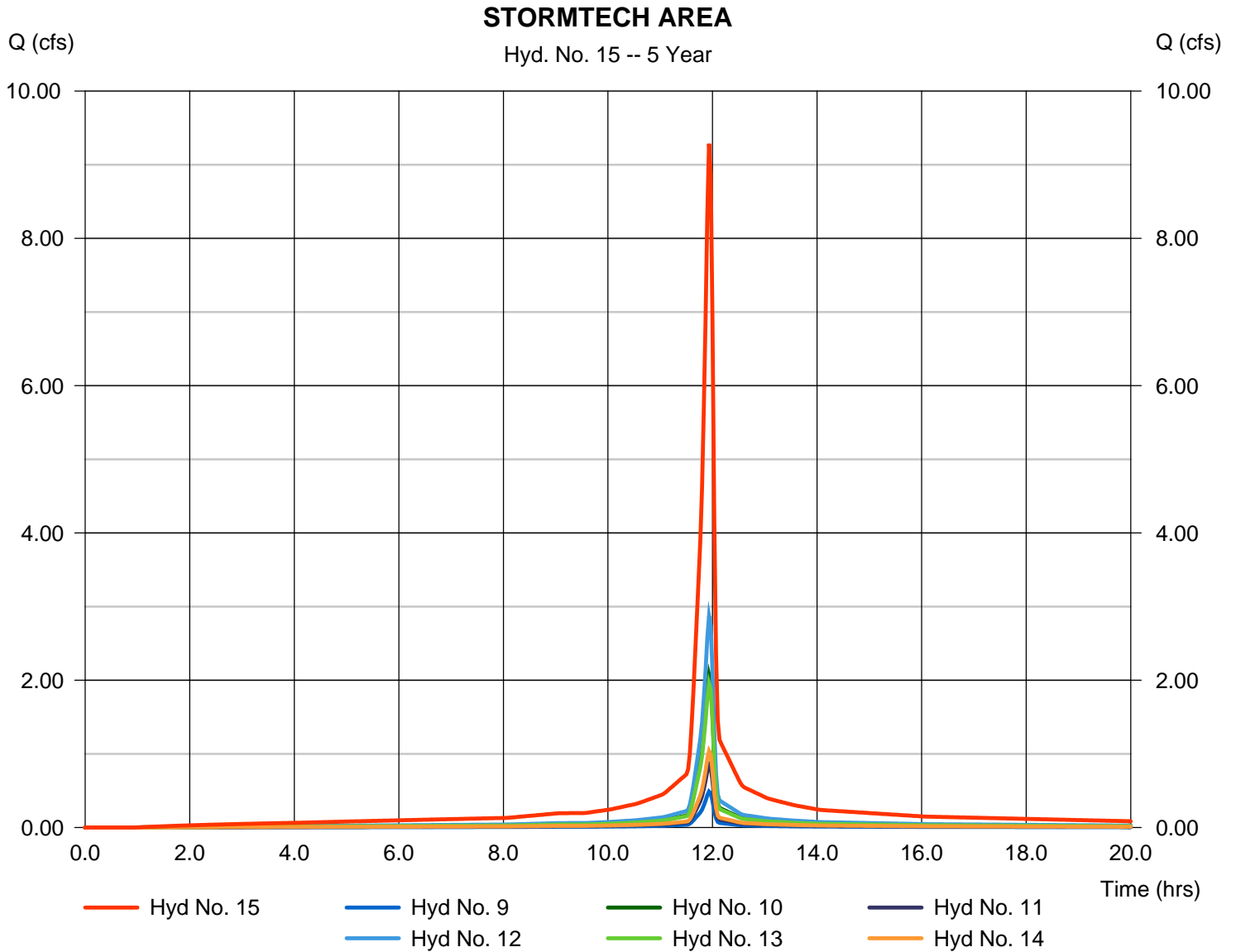
Friday, 00 6, 2012

Hyd. No. 15

STORMTECH AREA

Hydrograph type = Combine
Storm frequency = 5 yrs
Time interval = 2 min
Inflow hyds. = 9, 10, 11, 12, 13, 14

Peak discharge = 9.285 cfs
Time to peak = 11.93 hrs
Hyd. volume = 0.506 acft
Contrib. drain. area = 1.520 ac

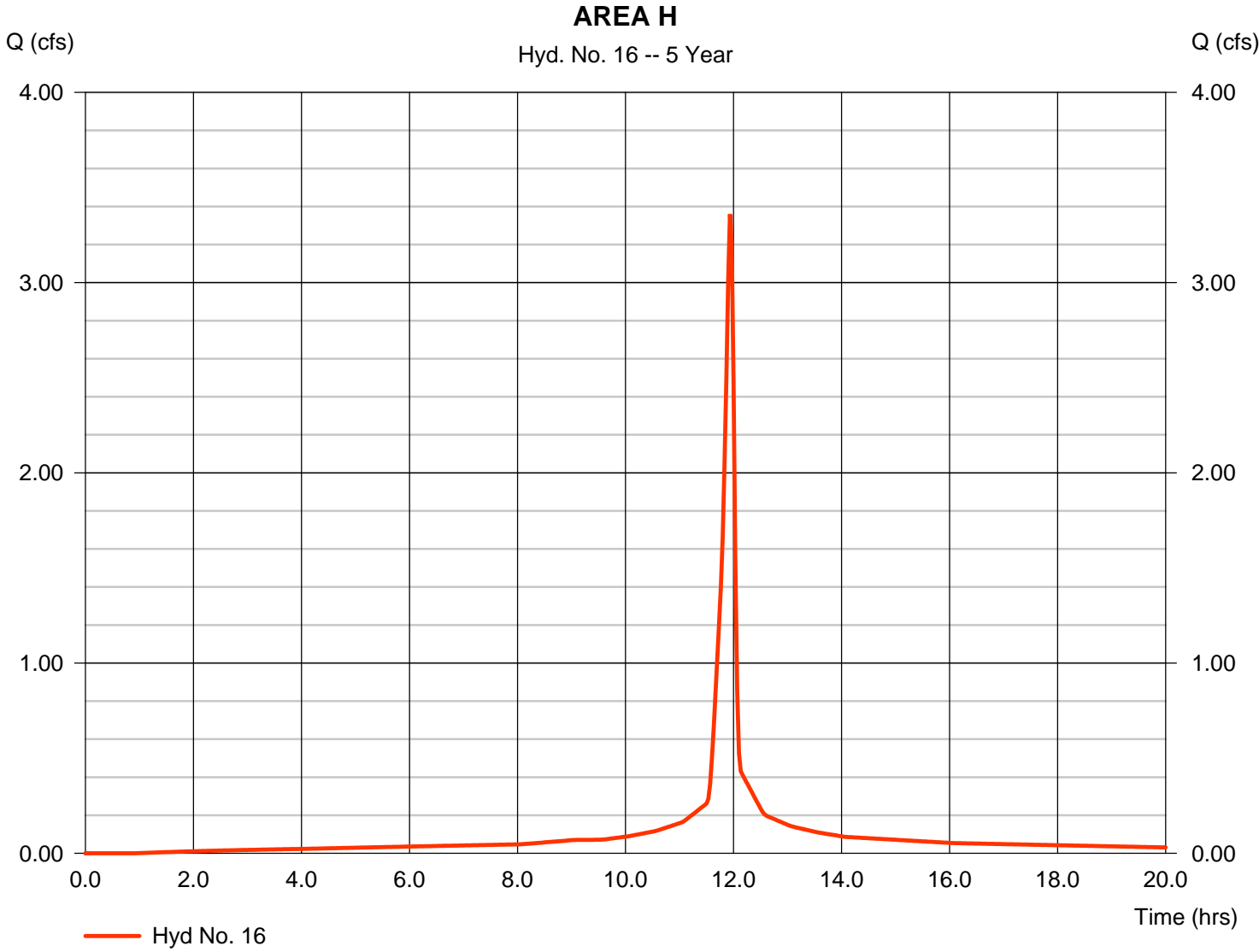


Hydrograph Report

Hyd. No. 16

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 3.360 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.183 acft
Drainage area	= 0.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

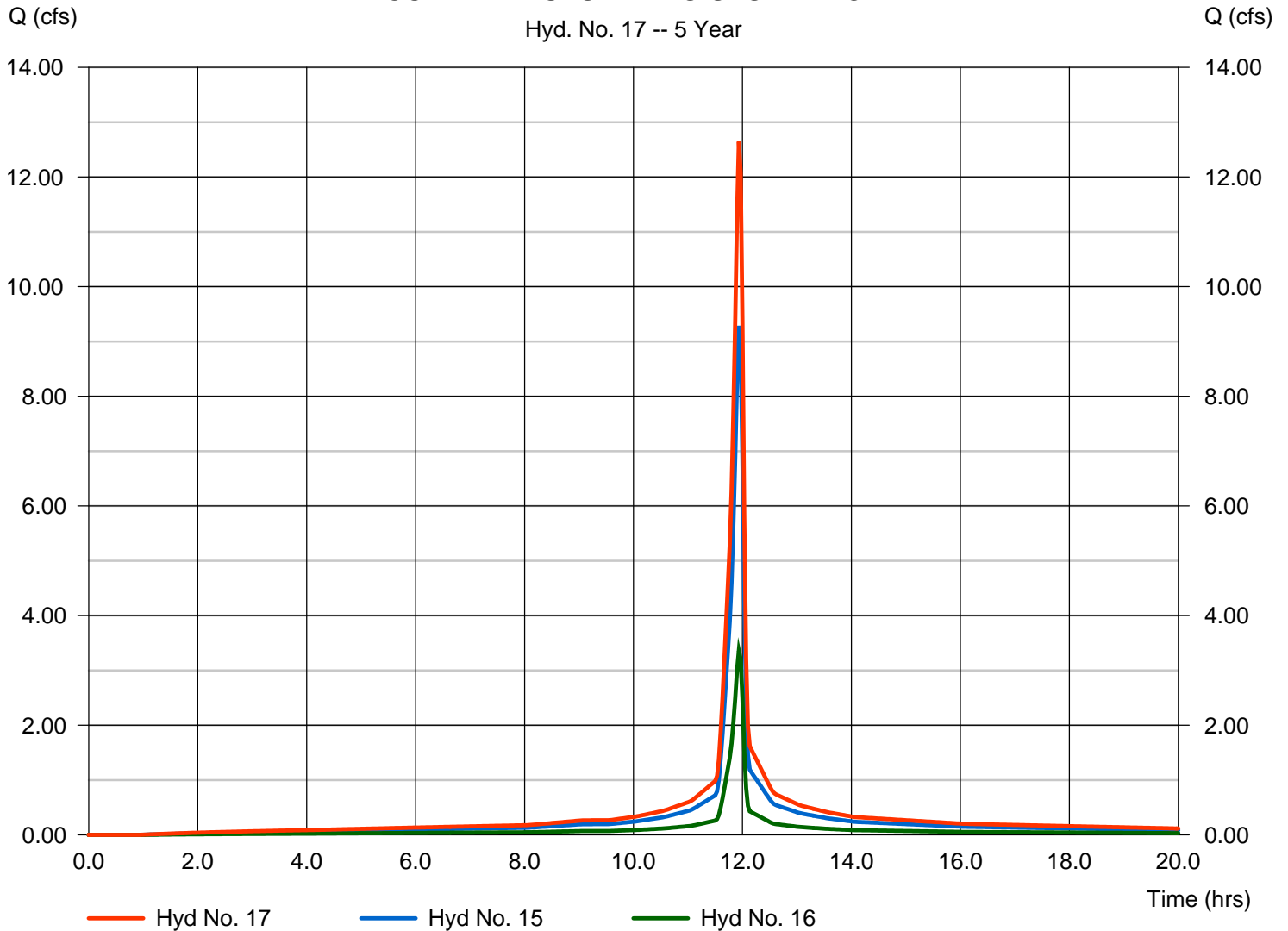
Hyd. No. 17

COMBINED SYSTEM TO STORMTECH

Hydrograph type	= Combine	Peak discharge	= 12.64 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.690 acft
Inflow hyds.	= 15, 16	Contrib. drain. area	= 0.550 ac

COMBINED SYSTEM TO STORMTECH

Hyd. No. 17 -- 5 Year



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

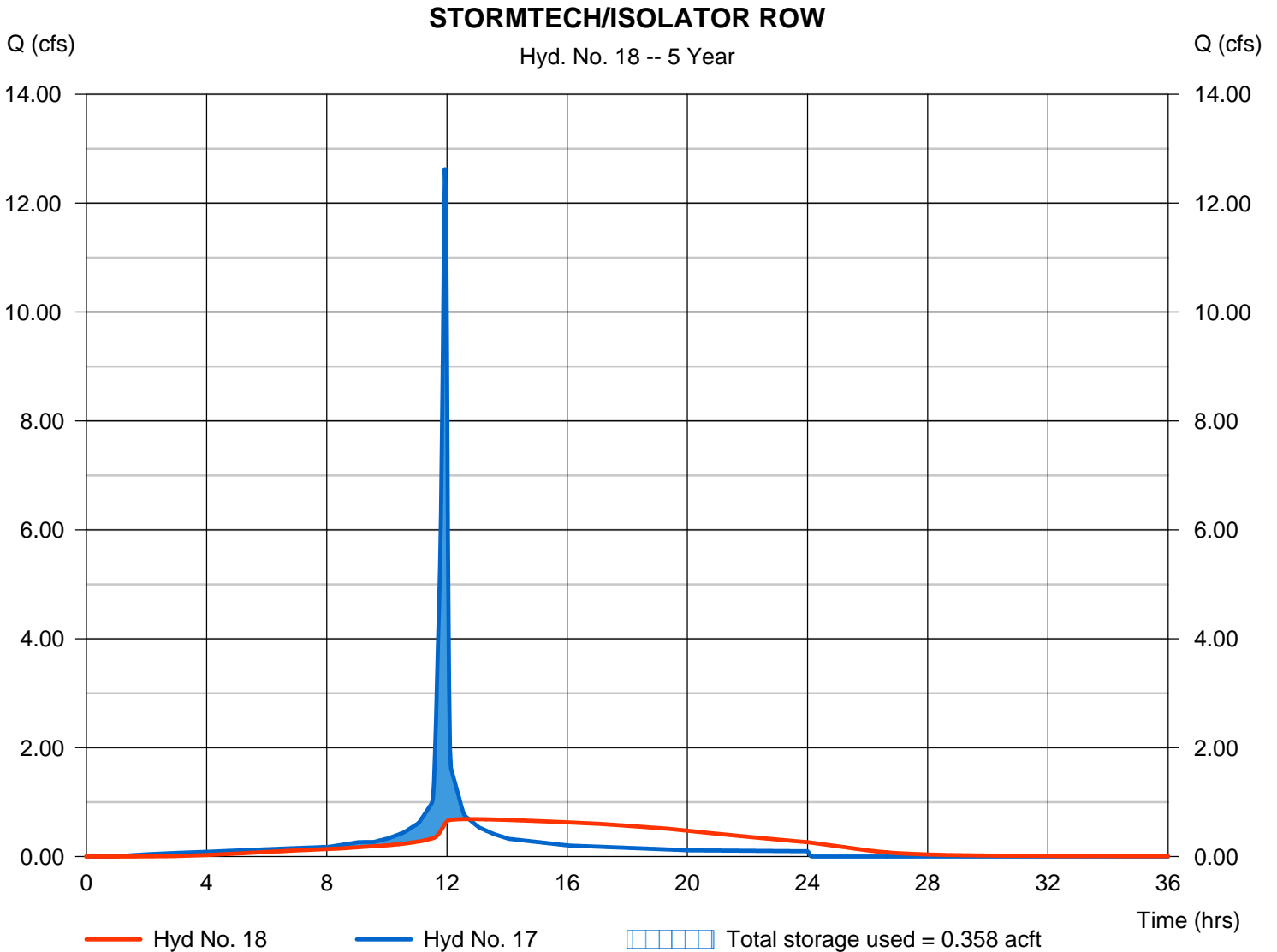
Friday, 00 6, 2012

Hyd. No. 18

STORMTECH/ISOLATOR ROW

Hydrograph type	= Reservoir	Peak discharge	= 0.687 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.73 hrs
Time interval	= 2 min	Hyd. volume	= 0.689 acft
Inflow hyd. No.	= 17 - COMBINED SYSTEM TO STORMTECH	Max. Storage	= 0.358 acft
Reservoir name	= STORMTECH 3500		

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

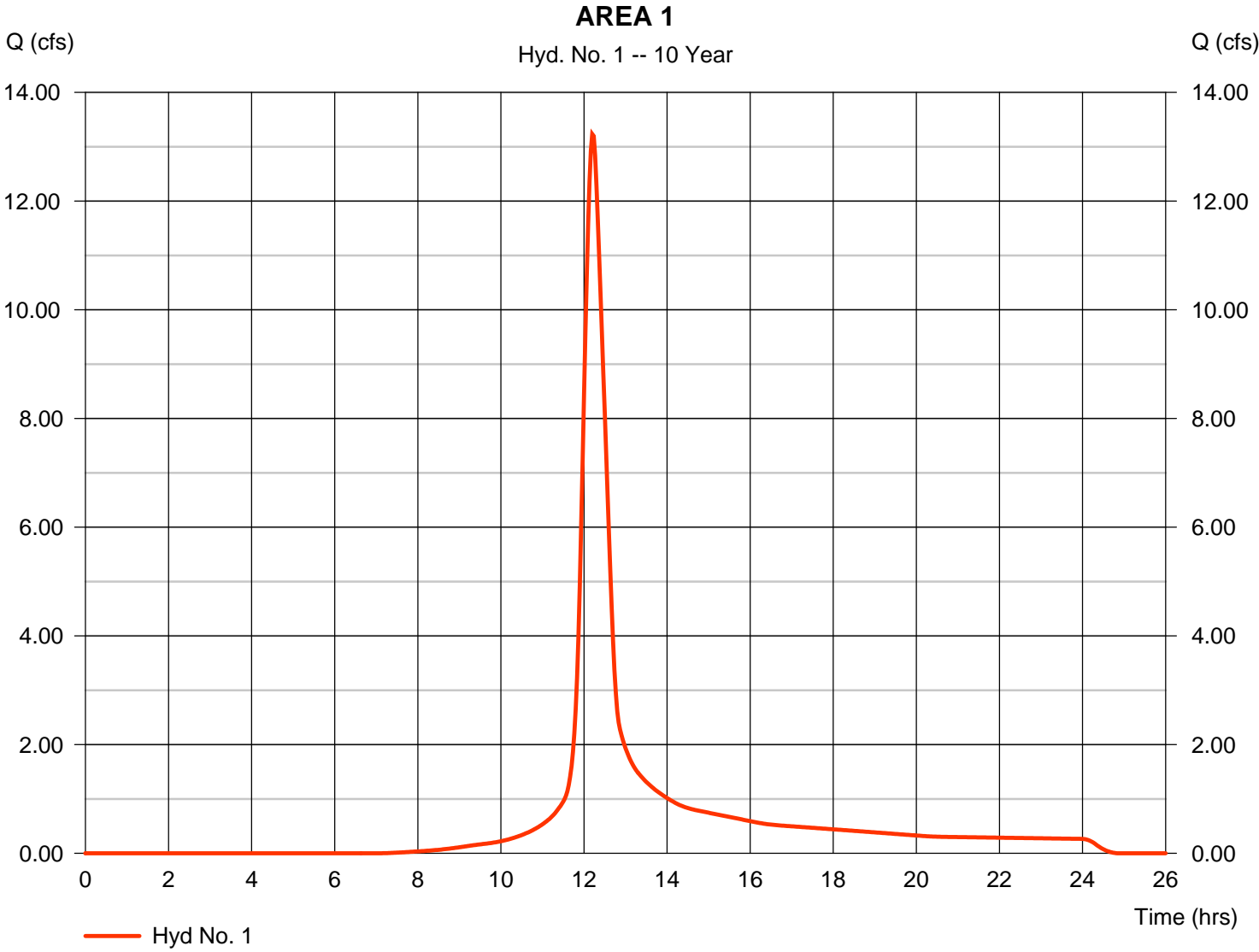
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description	
1	SCS Runoff	13.23	2	732	1.312	-----	-----	-----	AREA 1	
2	SCS Runoff	1.195	2	728	0.101	-----	-----	-----	AREA 2	
3	SCS Runoff	0.997	2	724	0.072	-----	-----	-----	AREA 3	
4	SCS Runoff	3.676	2	716	0.202	-----	-----	-----	AREA 4	
5	SCS Runoff	4.217	2	716	0.199	-----	-----	-----	AREA 5	
6	SCS Runoff	2.109	2	716	0.099	-----	-----	-----	AREA 6	
7	SCS Runoff	1.459	2	734	0.152	-----	-----	-----	AREA 7	
8	SCS Runoff	0.044	2	914	0.035	-----	-----	-----	AREA A	
9	SCS Runoff	0.566	2	716	0.031	-----	-----	-----	AREA B	
10	SCS Runoff	2.404	2	716	0.132	-----	-----	-----	AREA D	
11	SCS Runoff	0.990	2	716	0.054	-----	-----	-----	AREA C	
12	SCS Runoff	3.323	2	716	0.182	-----	-----	-----	AREA E	
13	SCS Runoff	2.262	2	716	0.124	-----	-----	-----	AREA F	
14	SCS Runoff	1.202	2	716	0.066	-----	-----	-----	AREA G	
15	Combine	10.75	2	716	0.589	9, 10, 11, 12, 13, 14	-----	-----	STORMTECH AREA	
16	SCS Runoff	3.888	2	716	0.213	-----	-----	-----	AREA H	
17	Combine	14.63	2	716	0.803	15, 16	-----	-----	COMBINED SYSTEM TO STORMTE	
18	Reservoir	0.729	2	772	0.802	17	1343.18	0.422	STORMTECH/ISOLATOR ROW	
13TH AND MAIZE 3.16.12.gpw					Return Period: 10 Year			Friday, 00 6, 2012		

Hydrograph Report

Hyd. No. 1

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 13.23 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 1.312 acft
Drainage area	= 5.070 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 32.10 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

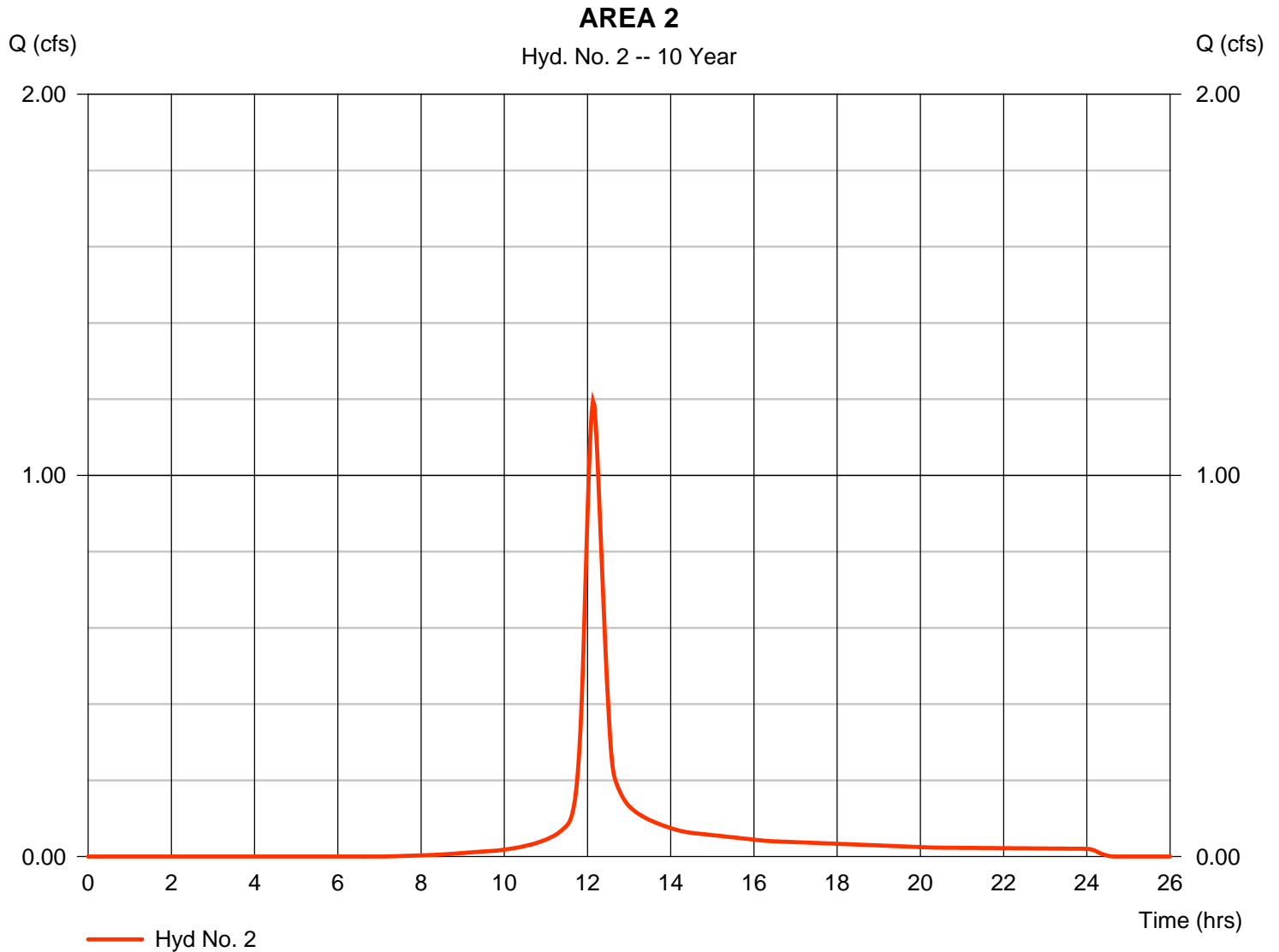
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 2

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 1.195 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 0.101 acft
Drainage area	= 0.400 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 25.30 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

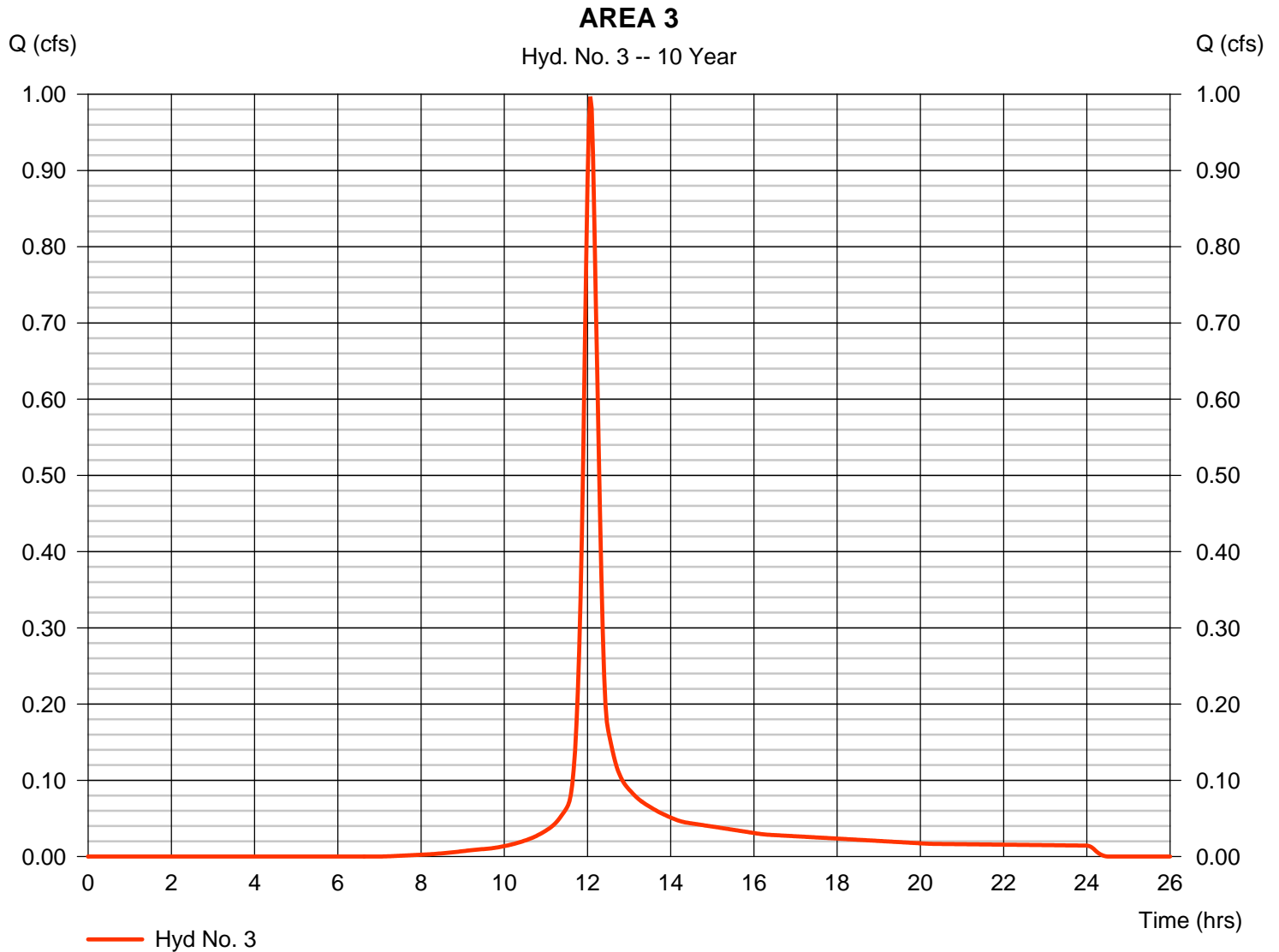
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 3

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.997 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 0.072 acft
Drainage area	= 0.280 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.40 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

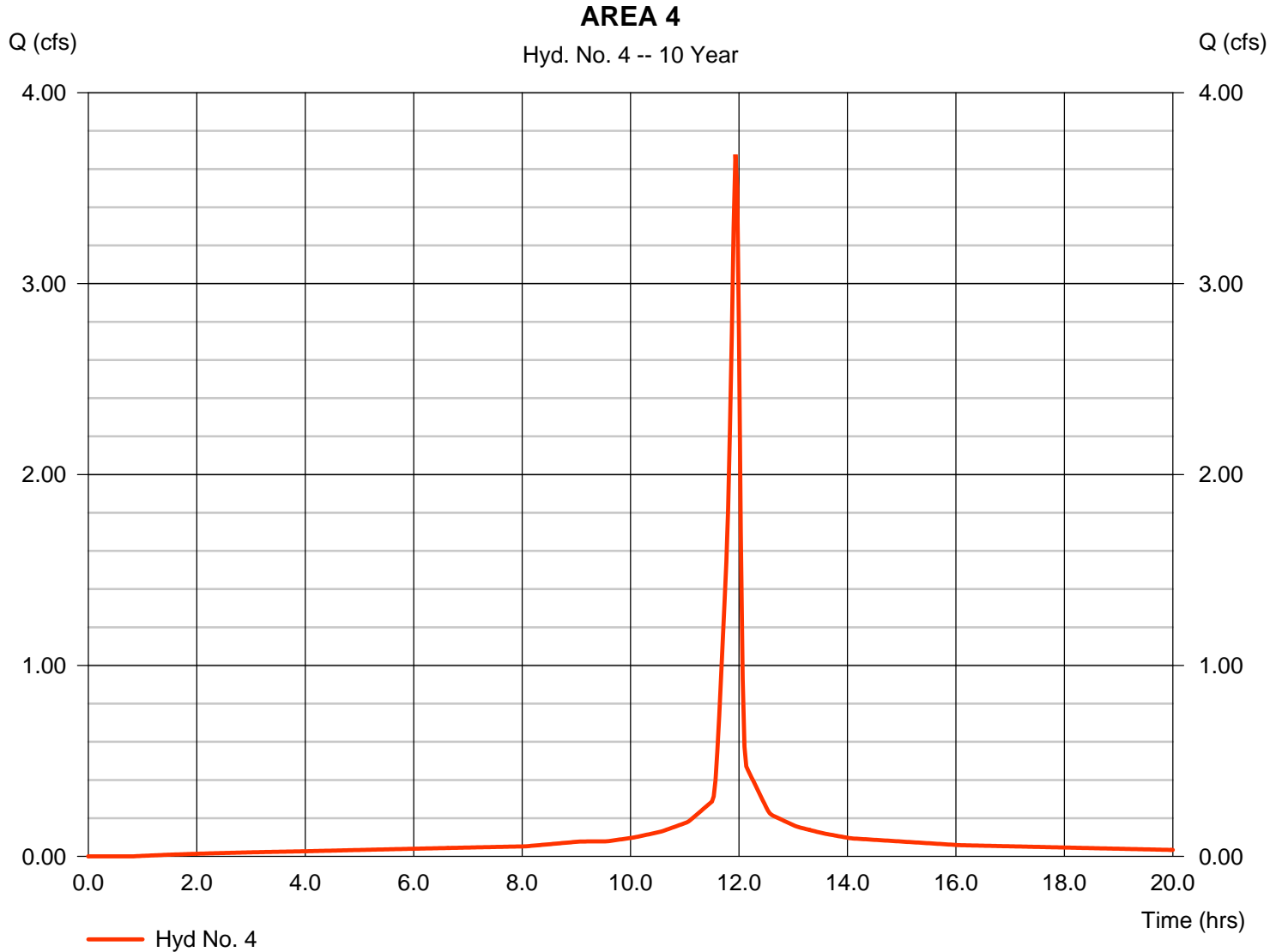
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 4

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 3.676 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.202 acft
Drainage area	= 0.520 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

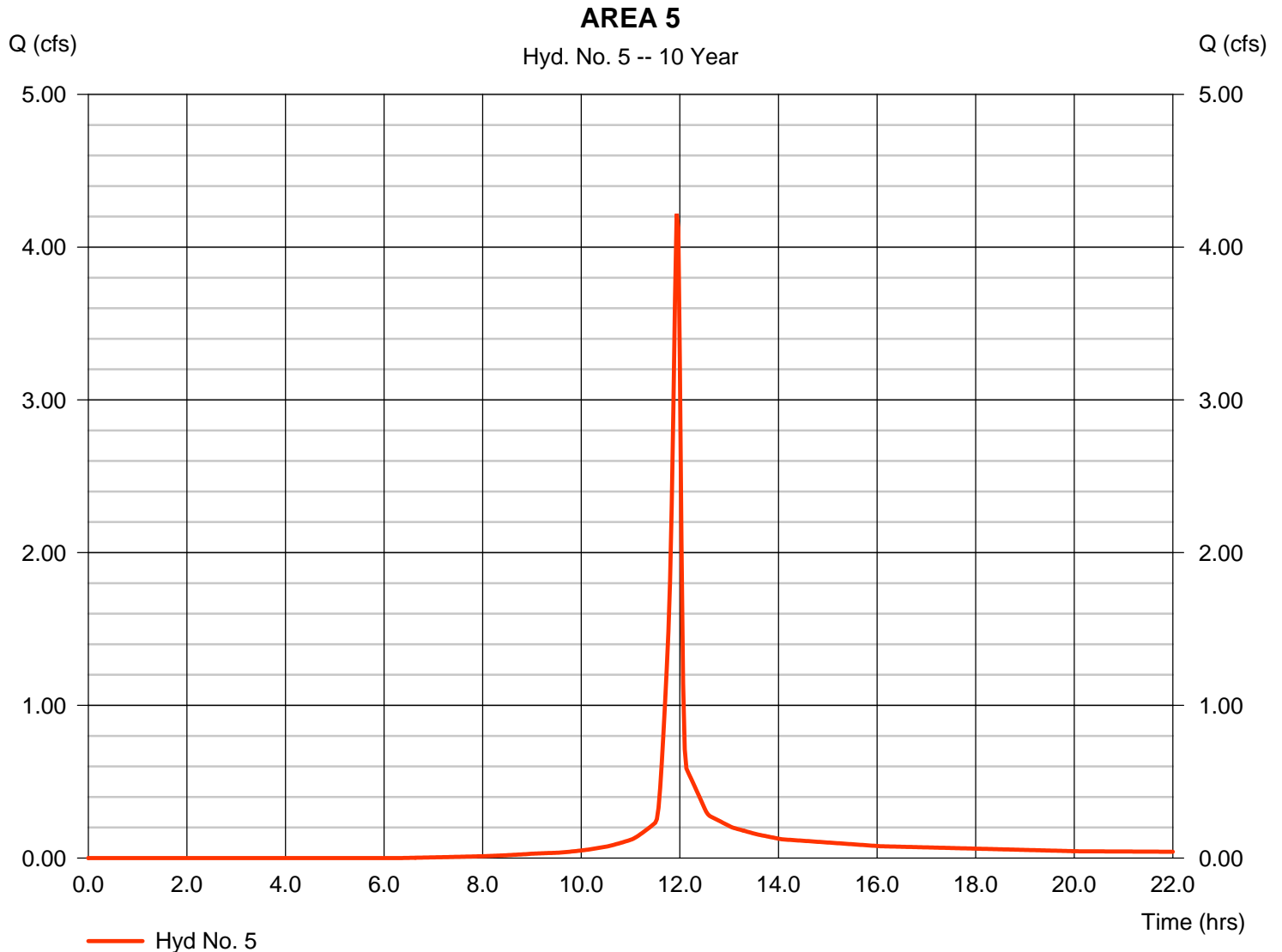
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 5

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 4.217 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.199 acft
Drainage area	= 0.780 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.90 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

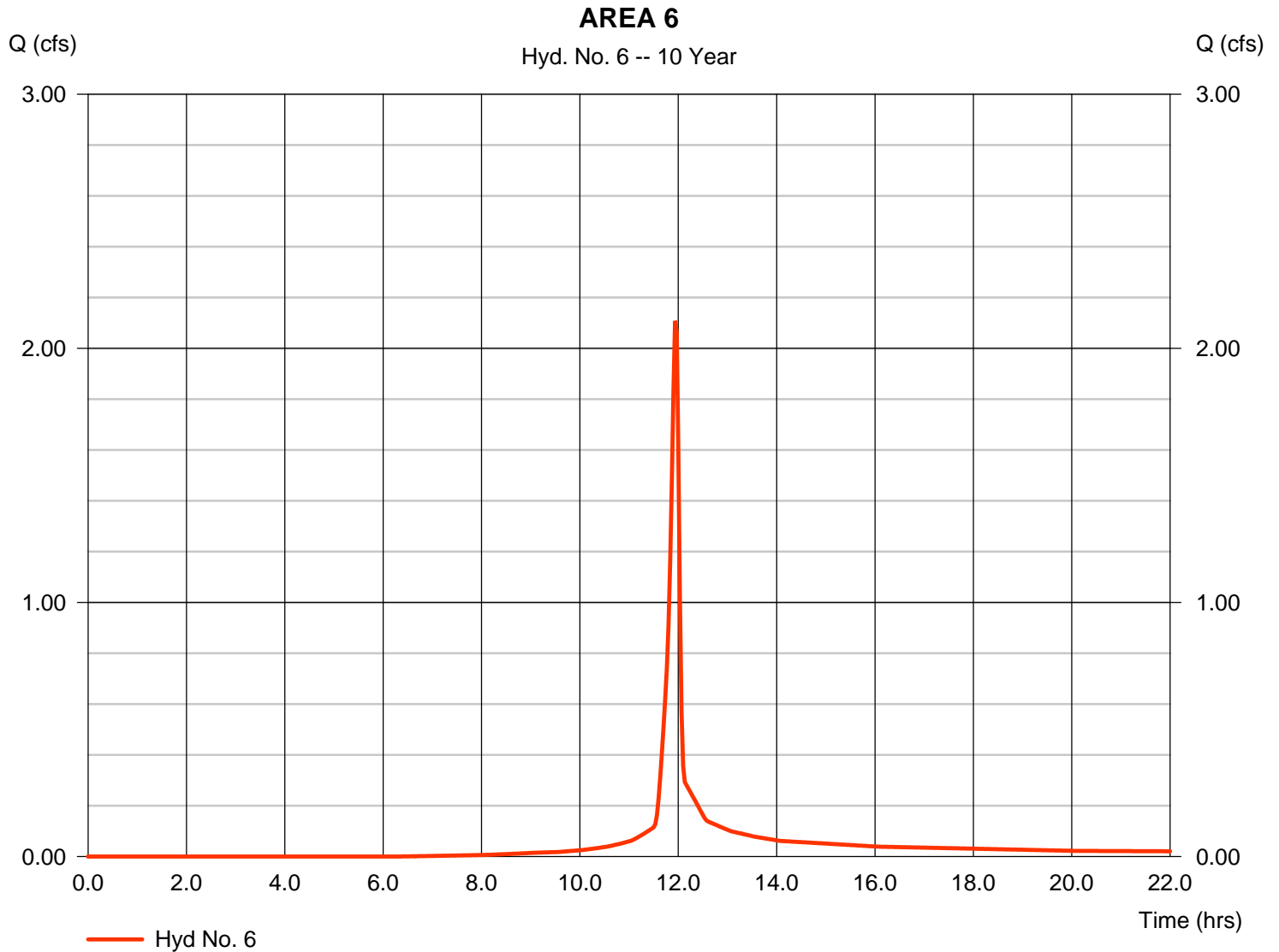
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 6

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 2.109 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.099 acft
Drainage area	= 0.390 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

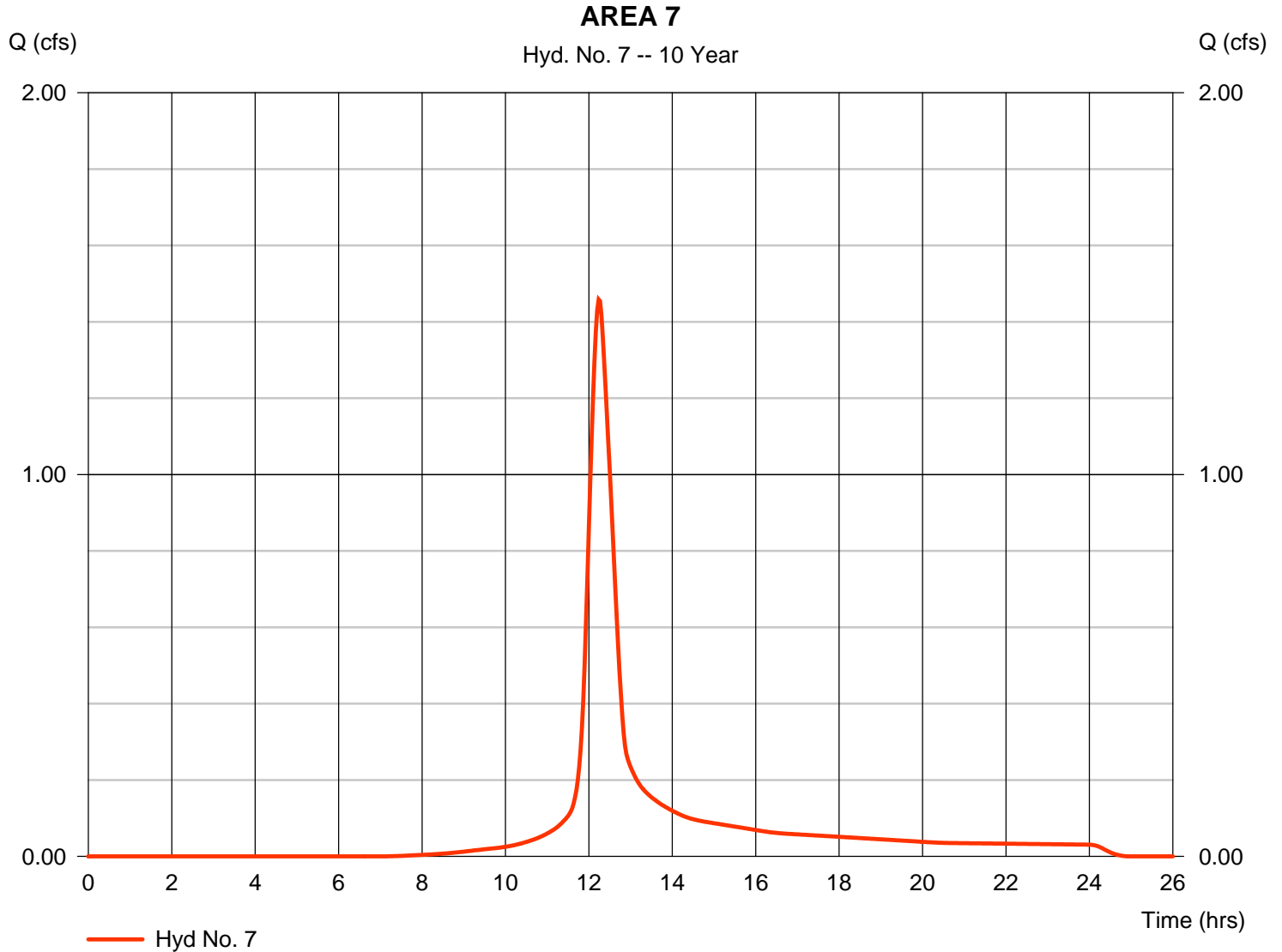
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 7

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 1.459 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.23 hrs
Time interval	= 2 min	Hyd. volume	= 0.152 acft
Drainage area	= 0.600 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 35.70 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

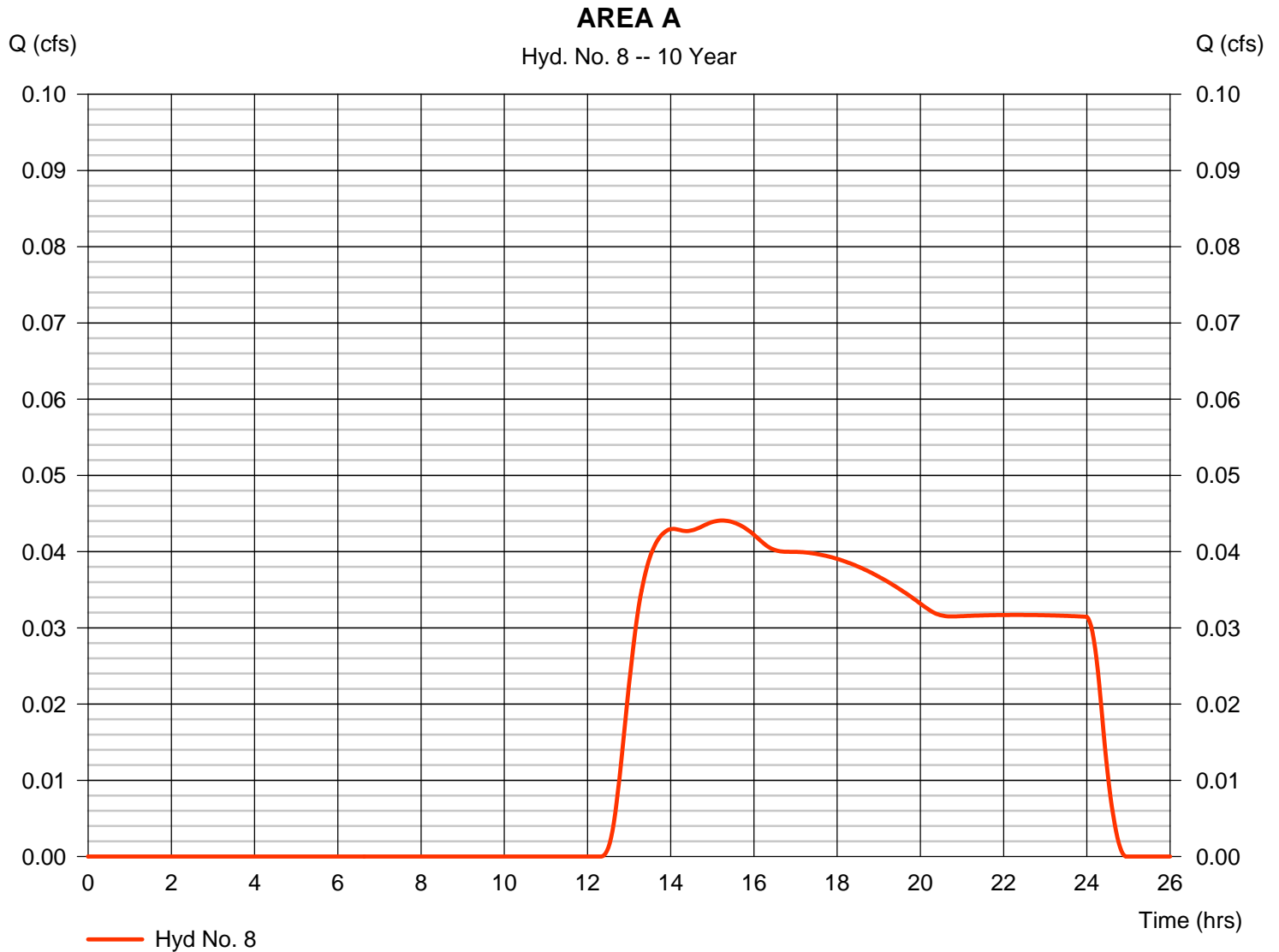
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 8

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.044 cfs
Storm frequency	= 10 yrs	Time to peak	= 15.23 hrs
Time interval	= 2 min	Hyd. volume	= 0.035 acft
Drainage area	= 3.850 ac	Curve number	= 35
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 34.80 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

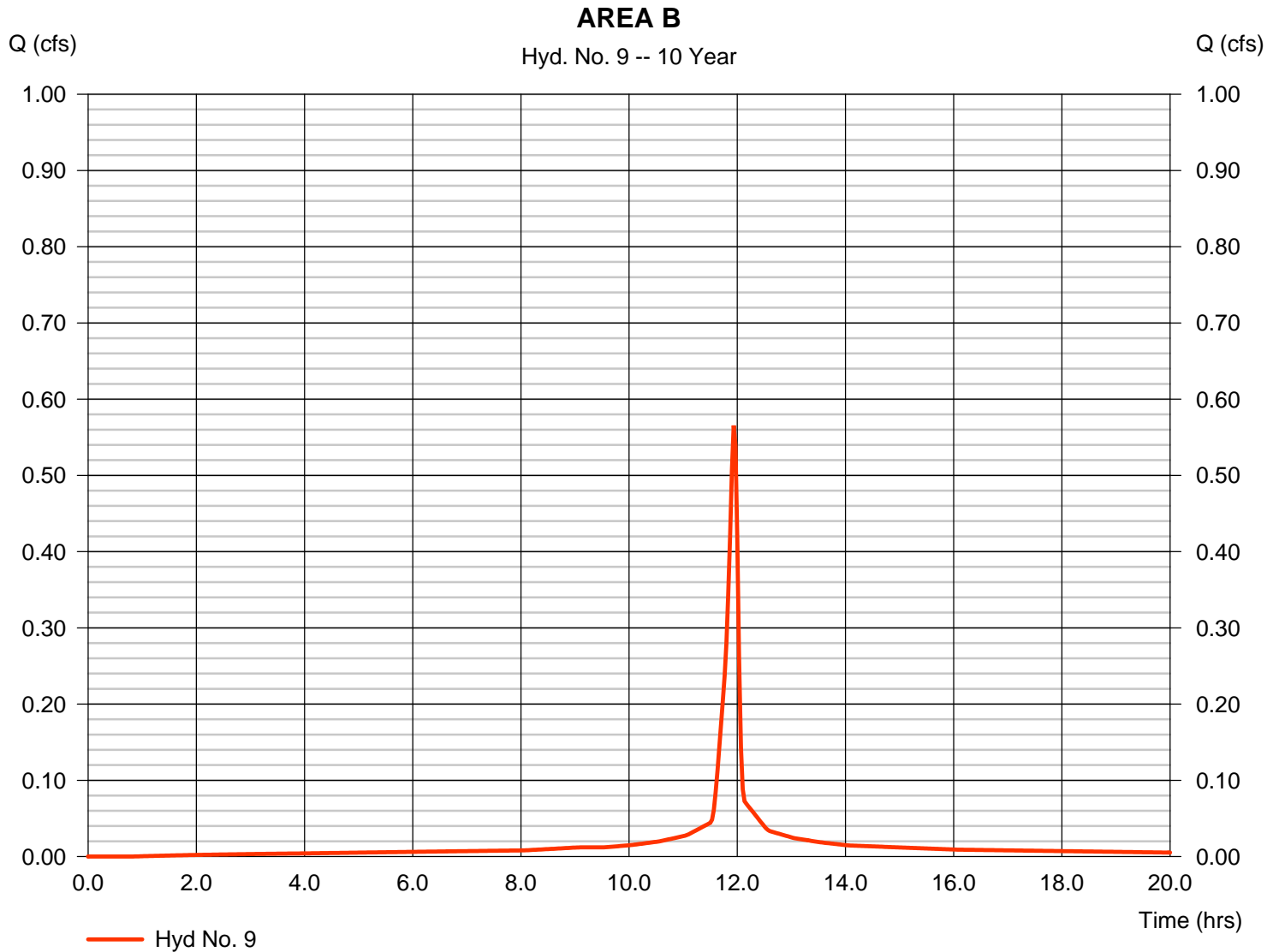
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 9

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.566 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.031 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

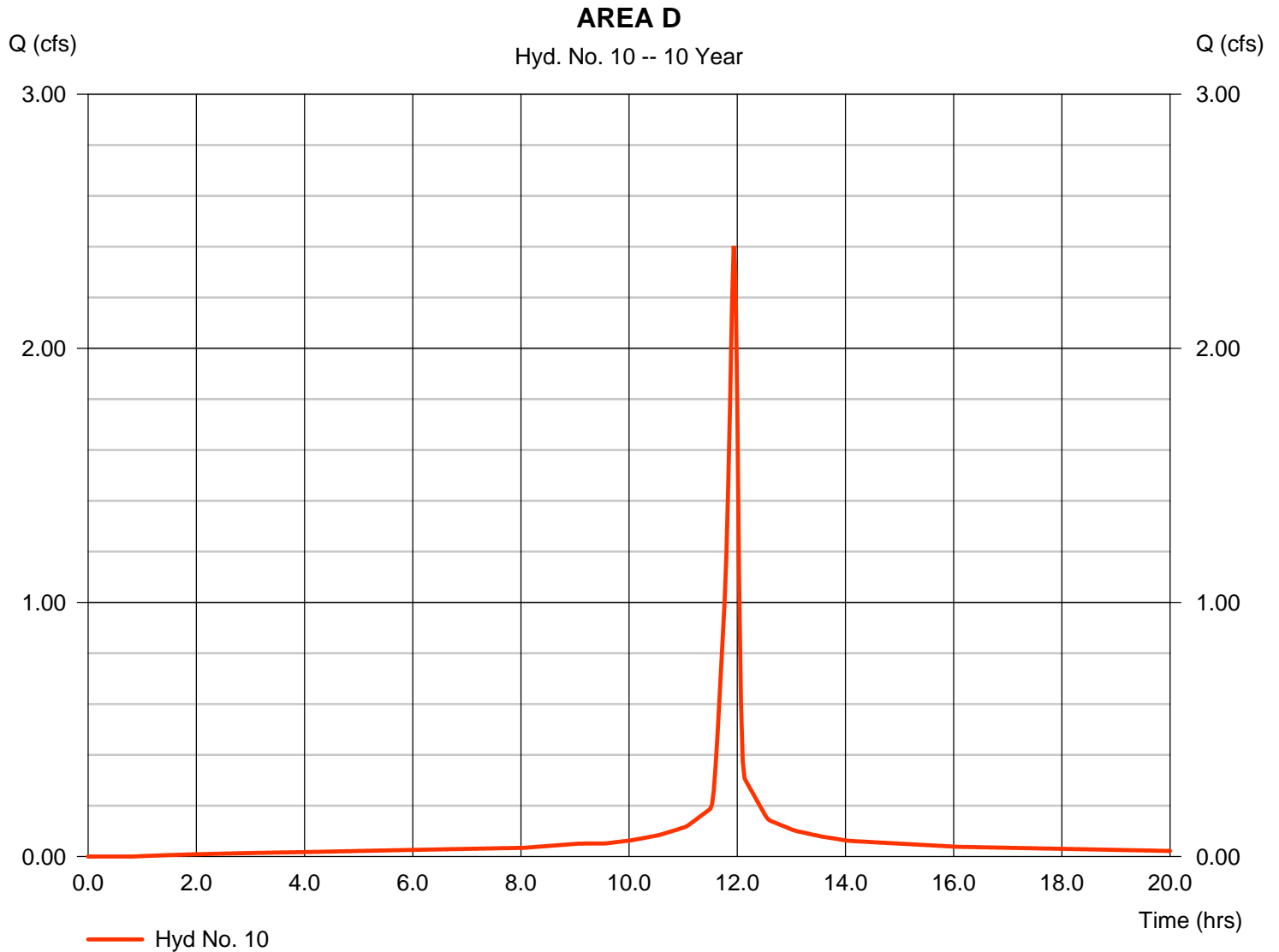
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 10

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 2.404 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.132 acft
Drainage area	= 0.340 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.20 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

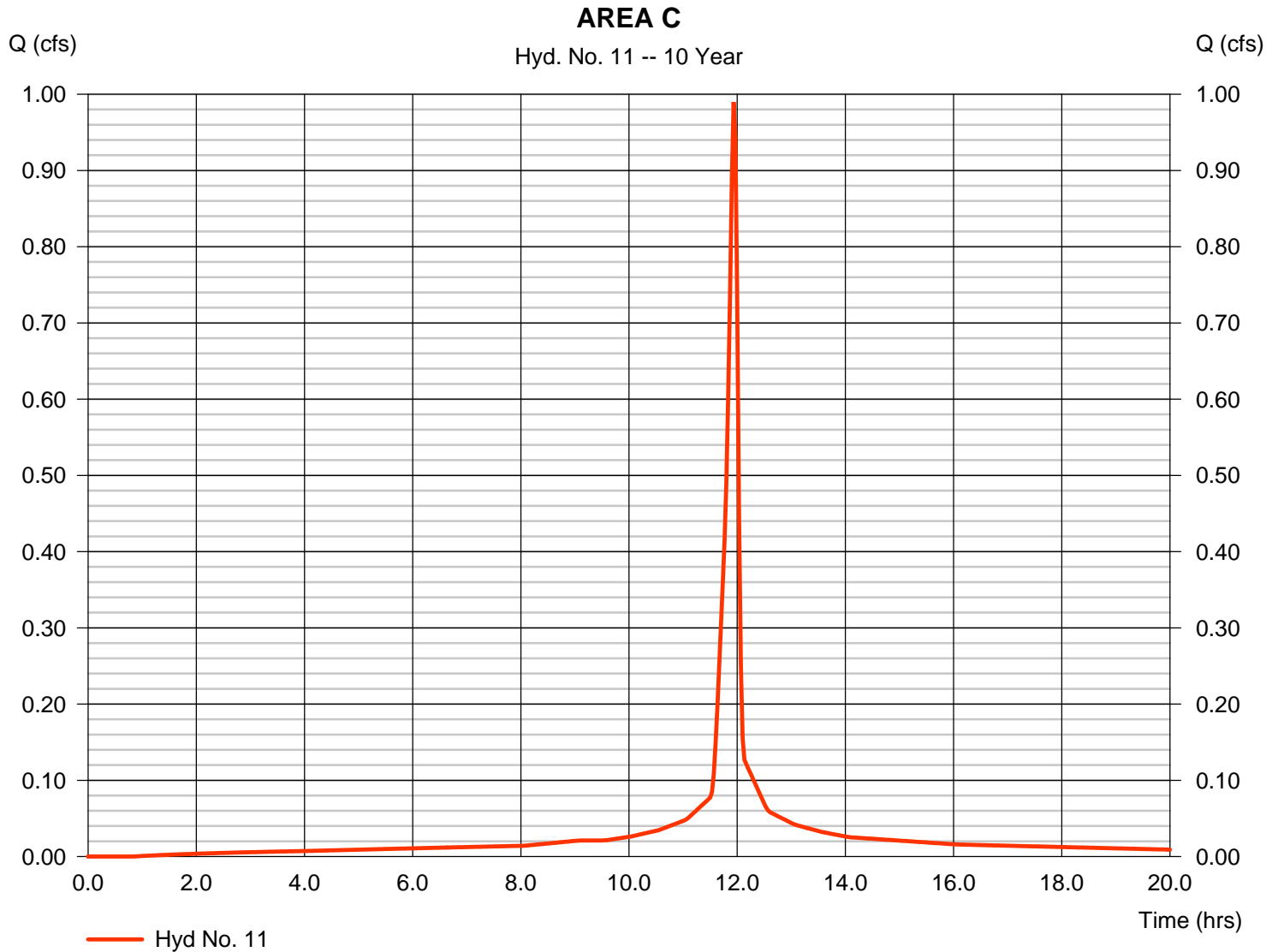


Hydrograph Report

Hyd. No. 11

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 0.990 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.054 acft
Drainage area	= 0.140 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

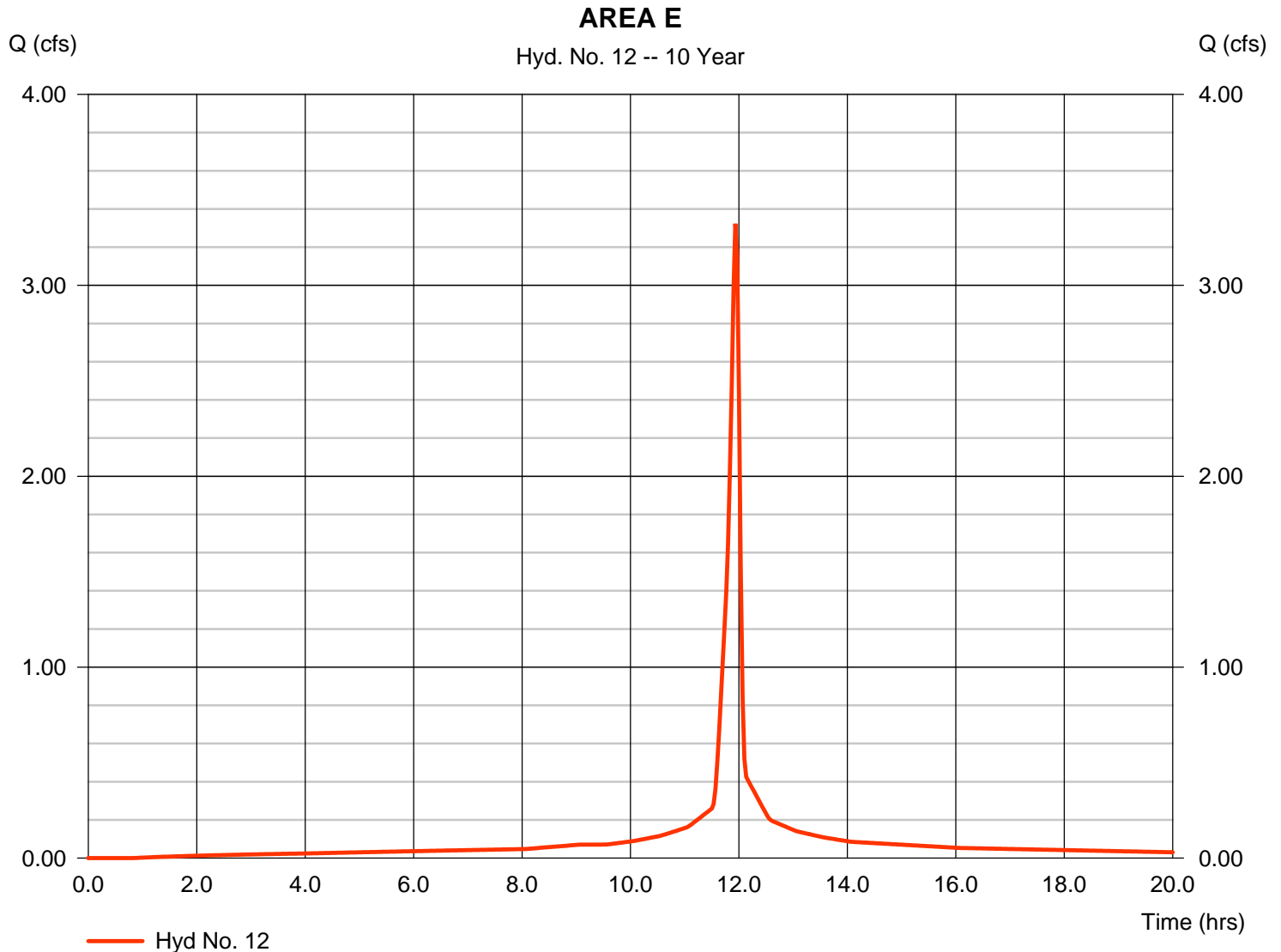
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 12

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 3.323 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.182 acft
Drainage area	= 0.470 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

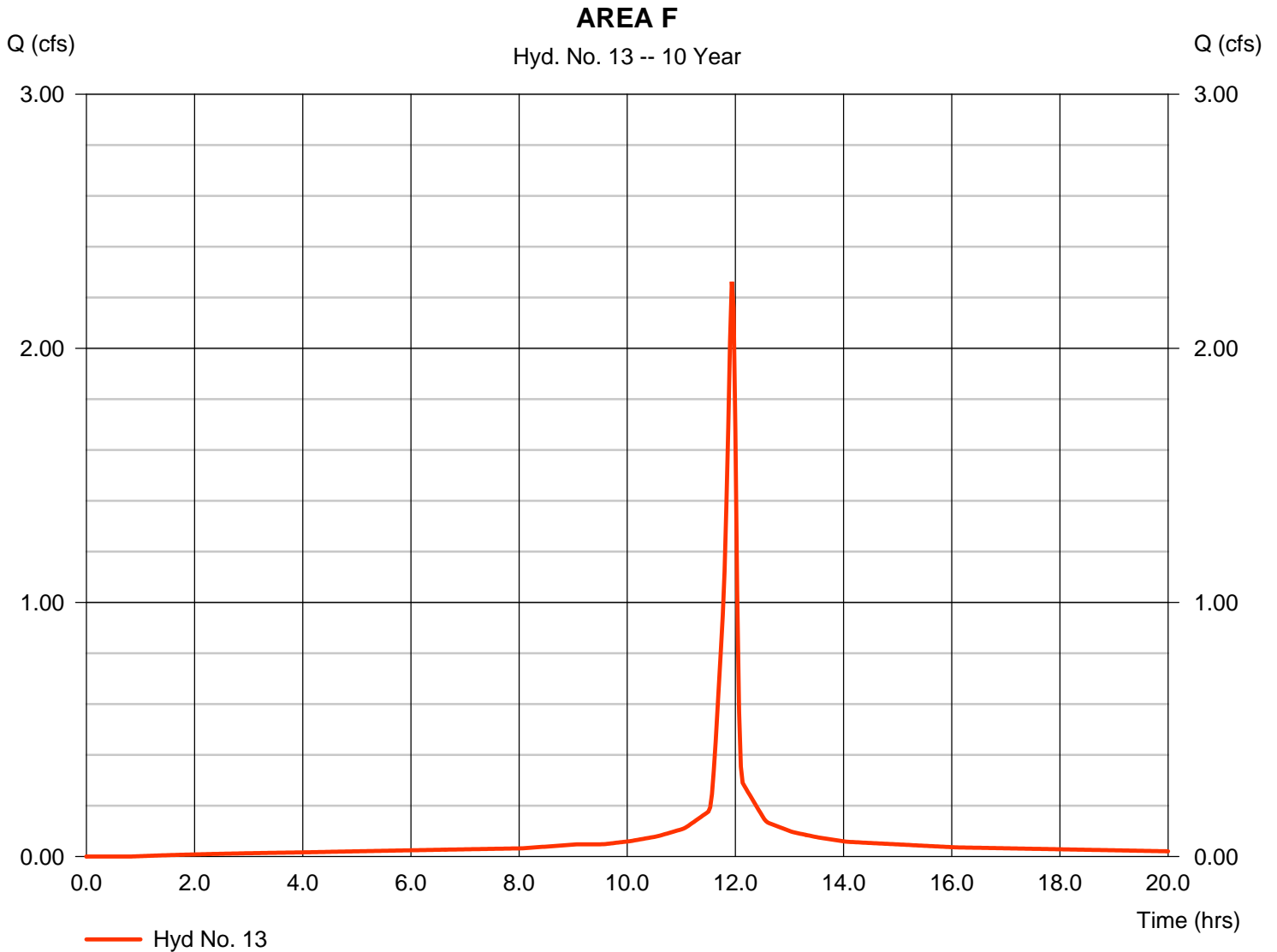
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 13

AREA F

Hydrograph type	= SCS Runoff	Peak discharge	= 2.262 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.124 acft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

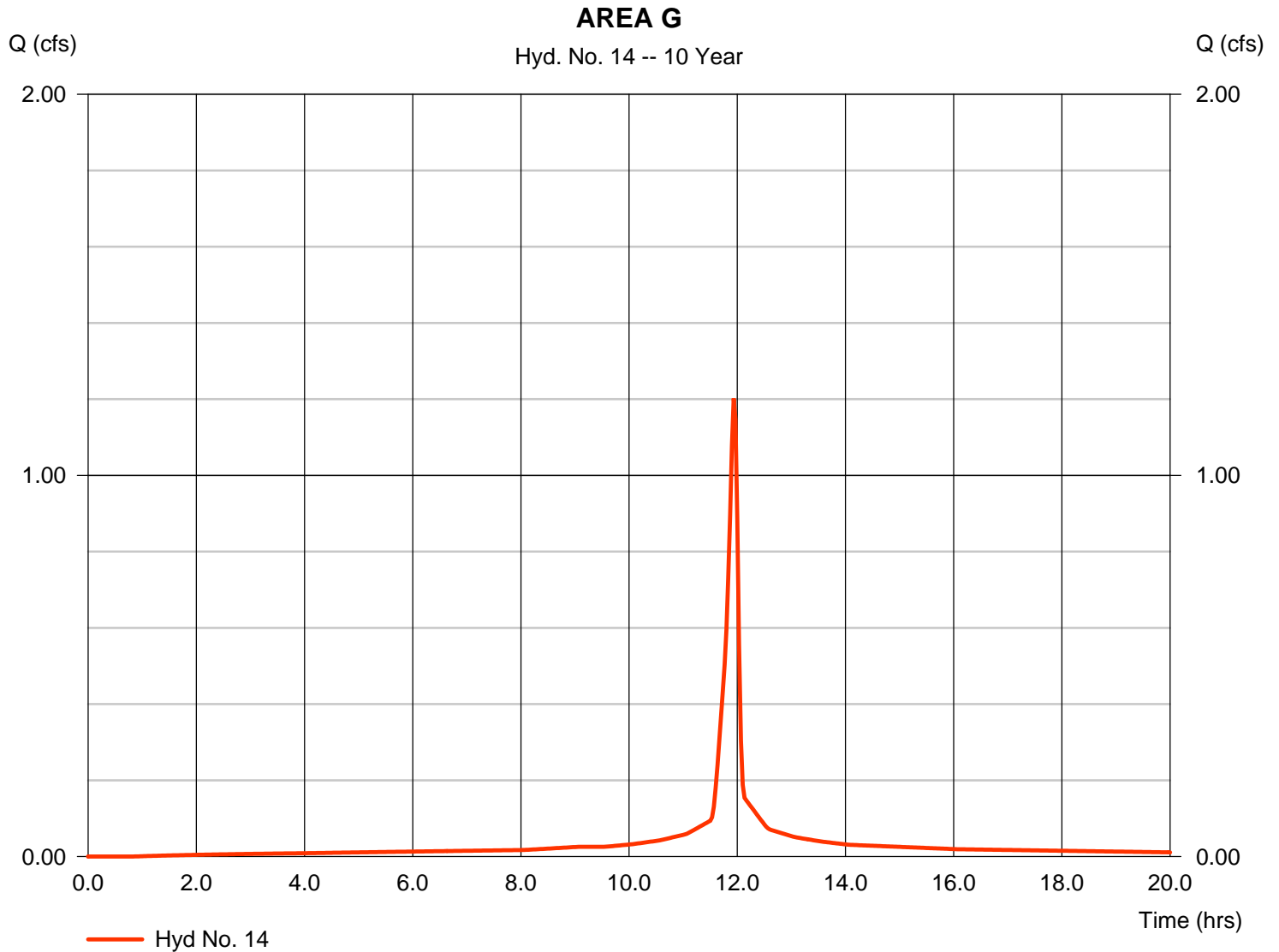
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 14

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 1.202 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.066 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.50 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

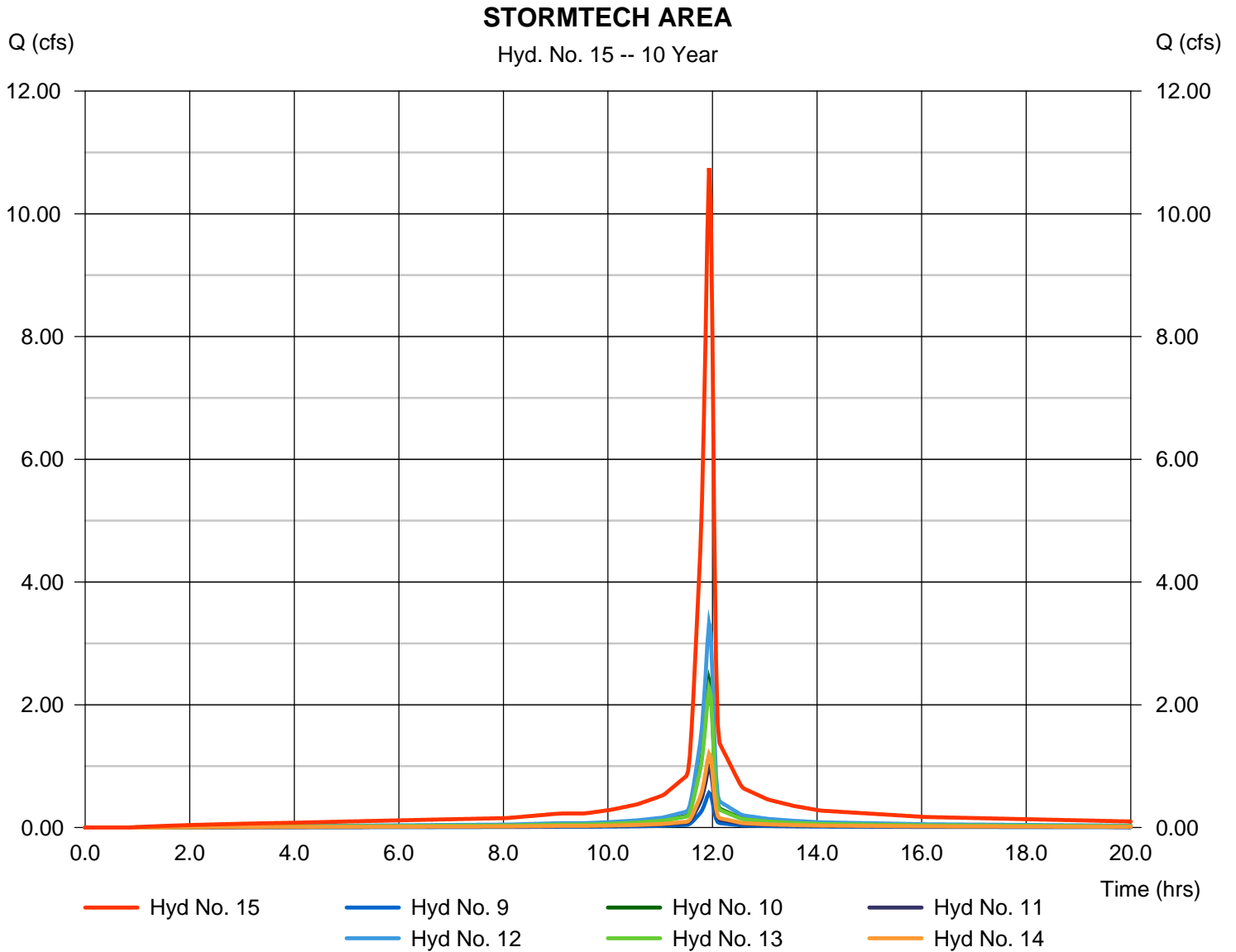


Hydrograph Report

Hyd. No. 15

STORMTECH AREA

Hydrograph type	= Combine	Peak discharge	= 10.75 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.589 acft
Inflow hyds.	= 9, 10, 11, 12, 13, 14	Contrib. drain. area	= 1.520 ac



Hydrograph Report

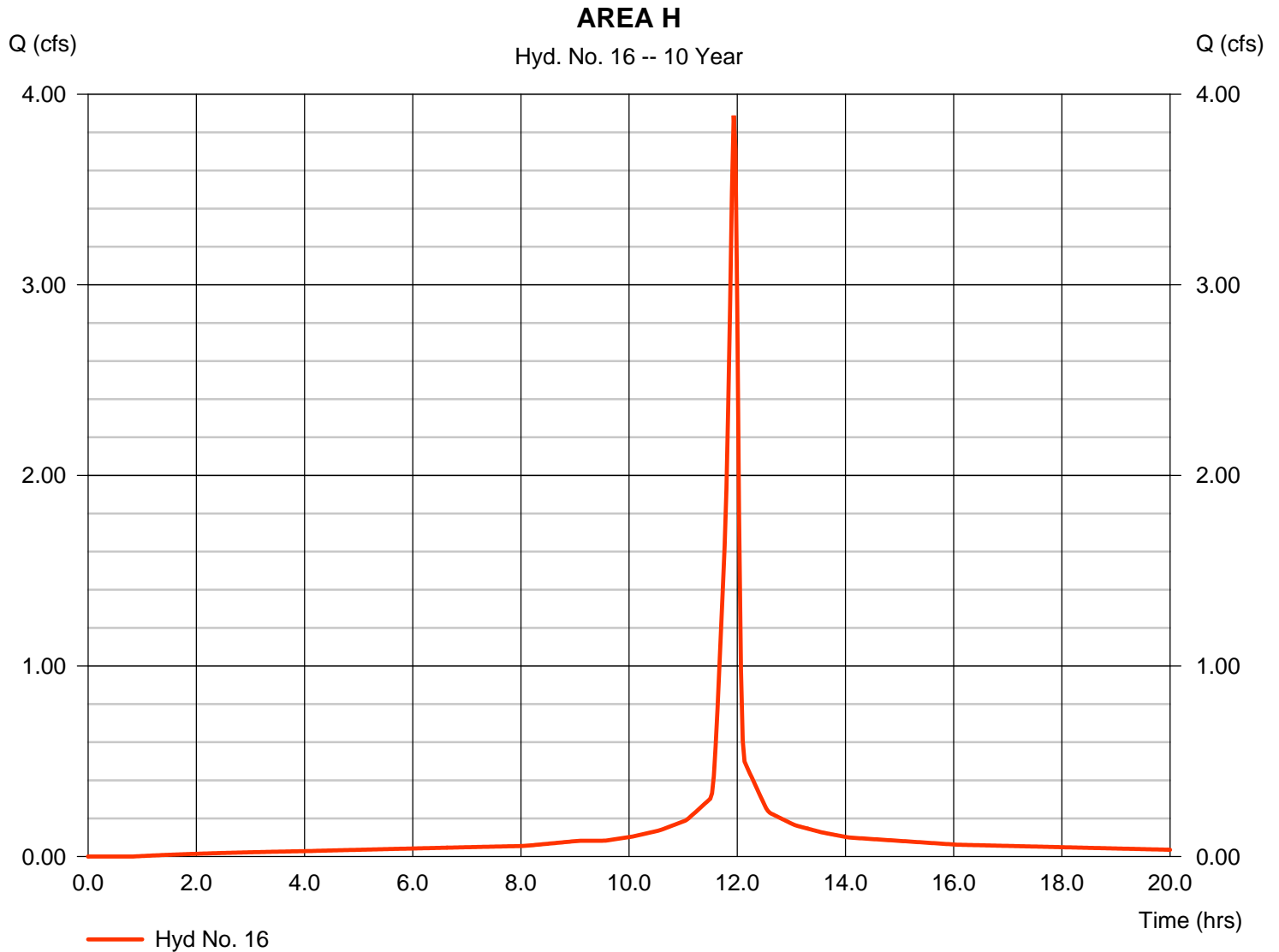
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 16

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 3.888 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.213 acft
Drainage area	= 0.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

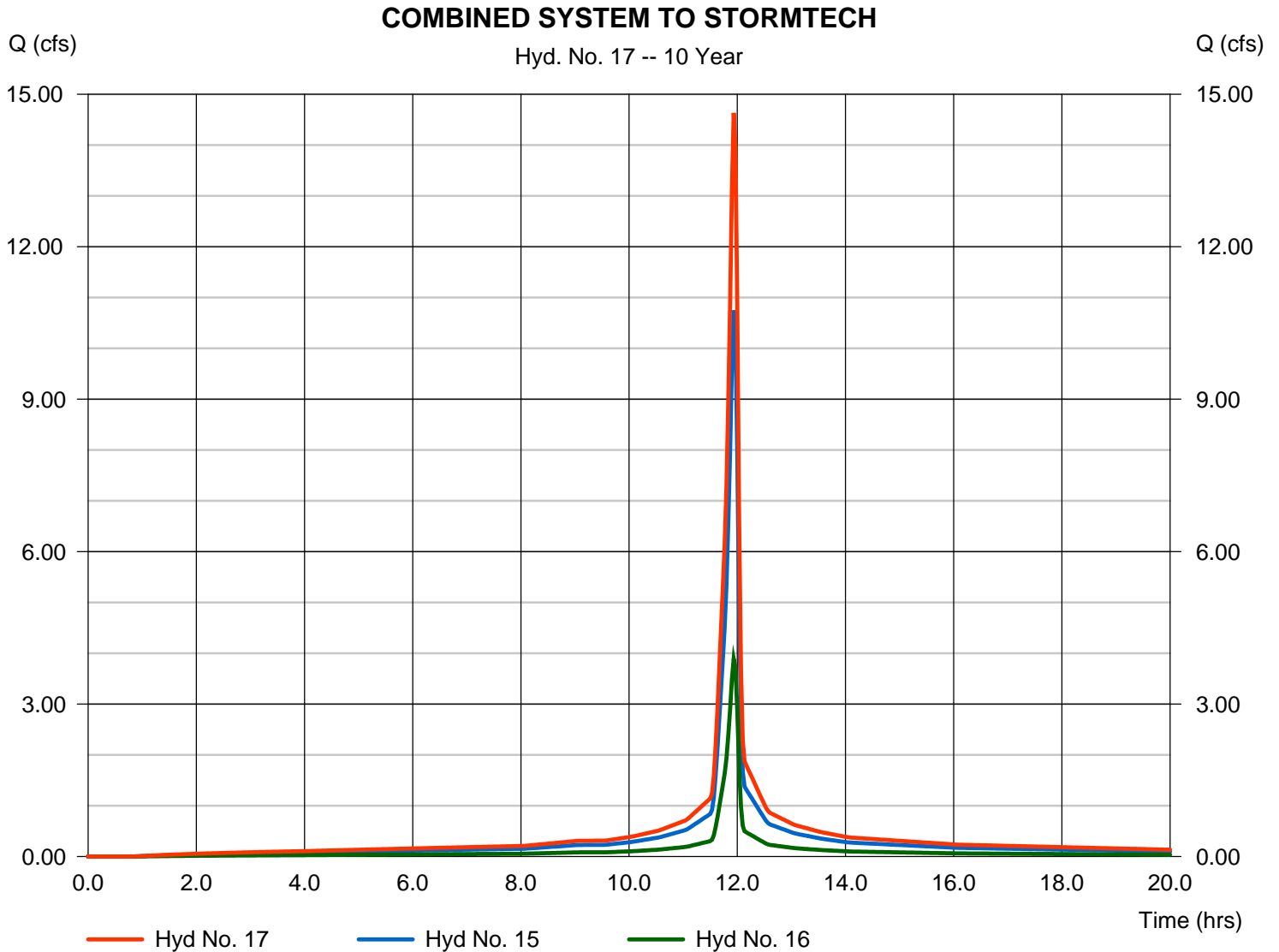
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 17

COMBINED SYSTEM TO STORMTECH

Hydrograph type	= Combine	Peak discharge	= 14.63 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.803 acft
Inflow hyds.	= 15, 16	Contrib. drain. area	= 0.550 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

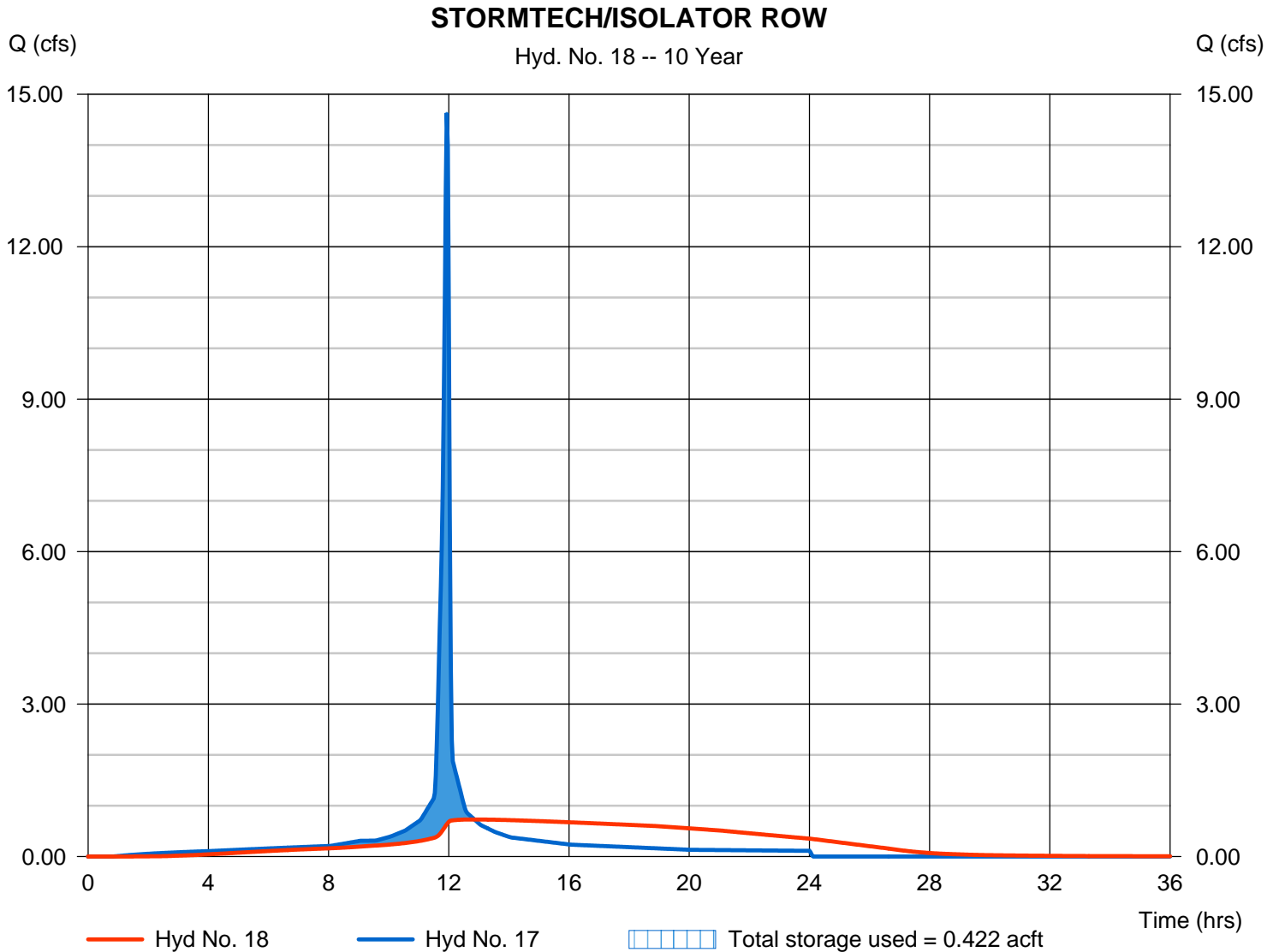
Friday, 00 6, 2012

Hyd. No. 18

STORMTECH/ISOLATOR ROW

Hydrograph type	= Reservoir	Peak discharge	= 0.729 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.87 hrs
Time interval	= 2 min	Hyd. volume	= 0.802 acft
Inflow hyd. No.	= 17 - COMBINED SYSTEM TO STORMTECH	Max. Elevation	= 1343.18 ft
Reservoir name	= STORMTECH 3500	Max. Storage	= 0.422 acft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description	
1	SCS Runoff	16.69	2	732	1.656	-----	-----	-----	AREA 1	
2	SCS Runoff	1.506	2	728	0.127	-----	-----	-----	AREA 2	
3	SCS Runoff	1.254	2	724	0.090	-----	-----	-----	AREA 3	
4	SCS Runoff	4.318	2	716	0.238	-----	-----	-----	AREA 4	
5	SCS Runoff	5.229	2	716	0.249	-----	-----	-----	AREA 5	
6	SCS Runoff	2.614	2	716	0.124	-----	-----	-----	AREA 6	
7	SCS Runoff	1.840	2	734	0.191	-----	-----	-----	AREA 7	
8	SCS Runoff	0.184	2	764	0.086	-----	-----	-----	AREA A	
9	SCS Runoff	0.664	2	716	0.037	-----	-----	-----	AREA B	
10	SCS Runoff	2.823	2	716	0.156	-----	-----	-----	AREA D	
11	SCS Runoff	1.163	2	716	0.064	-----	-----	-----	AREA C	
12	SCS Runoff	3.903	2	716	0.215	-----	-----	-----	AREA E	
13	SCS Runoff	2.657	2	716	0.147	-----	-----	-----	AREA F	
14	SCS Runoff	1.412	2	716	0.078	-----	-----	-----	AREA G	
15	Combine	12.62	2	716	0.696	9, 10, 11, 12, 13, 14	-----	-----	STORMTECH AREA	
16	SCS Runoff	4.567	2	716	0.252	-----	-----	-----	AREA H	
17	Combine	17.19	2	716	0.948	15, 16	-----	-----	COMBINED SYSTEM TO STORMTE	
18	Reservoir	0.782	2	778	0.947	17	1343.63	0.507	STORMTECH/ISOLATOR ROW	
13TH AND MAIZE 3.16.12.gpw					Return Period: 25 Year			Friday, 00 6, 2012		

Hydrograph Report

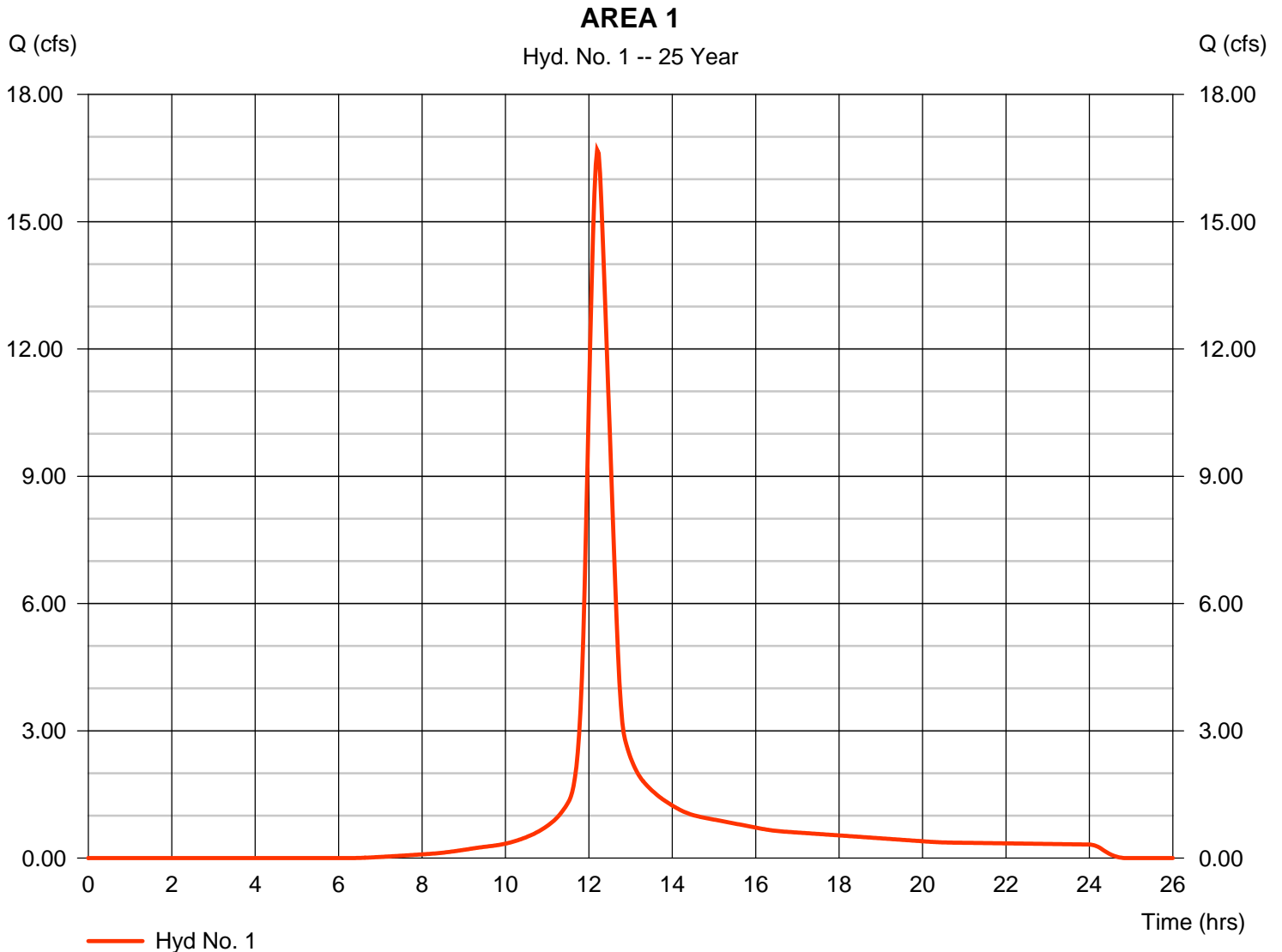
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 1

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 16.69 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 1.656 acft
Drainage area	= 5.070 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 32.10 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

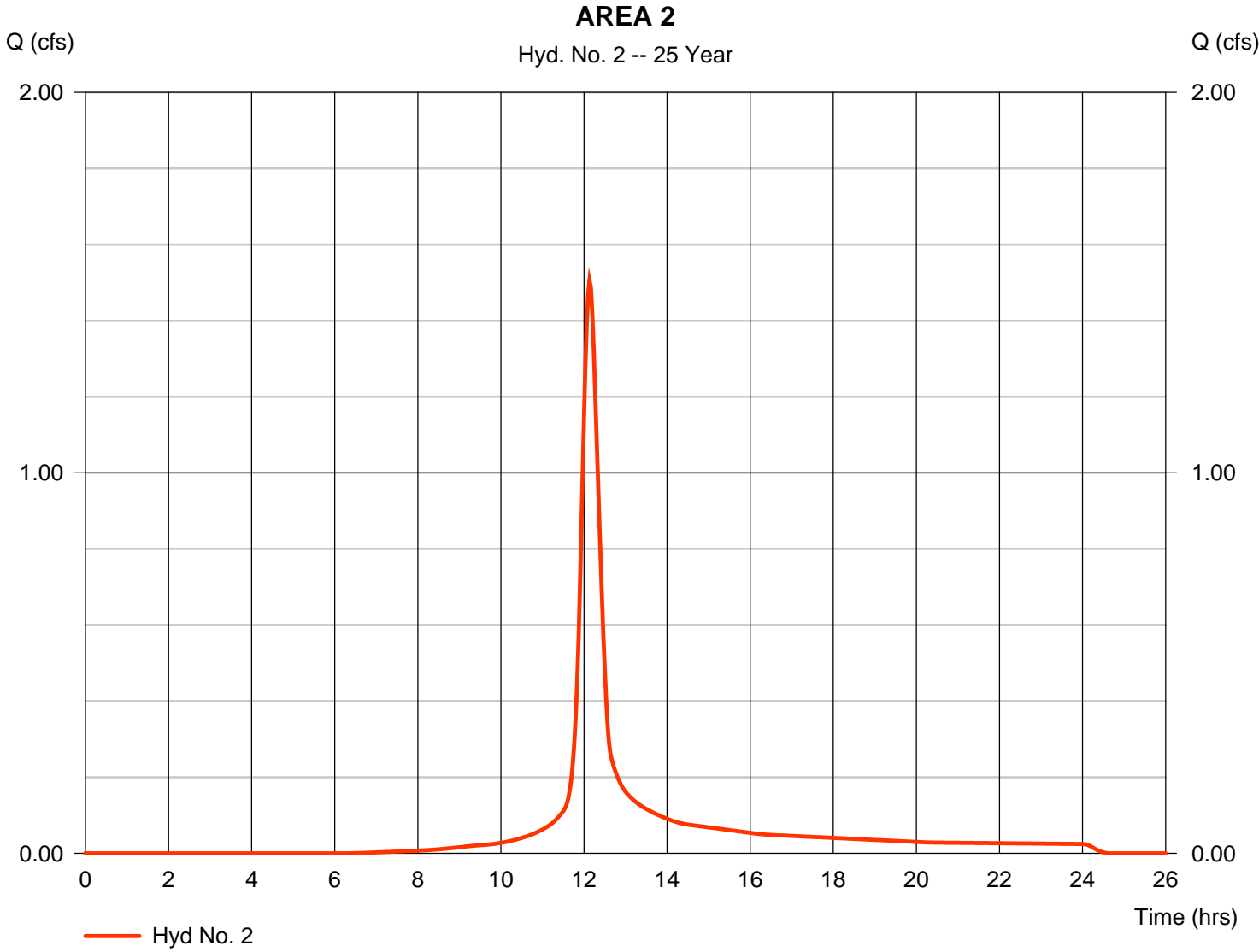


Hydrograph Report

Hyd. No. 2

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 1.506 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 0.127 acft
Drainage area	= 0.400 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 25.30 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

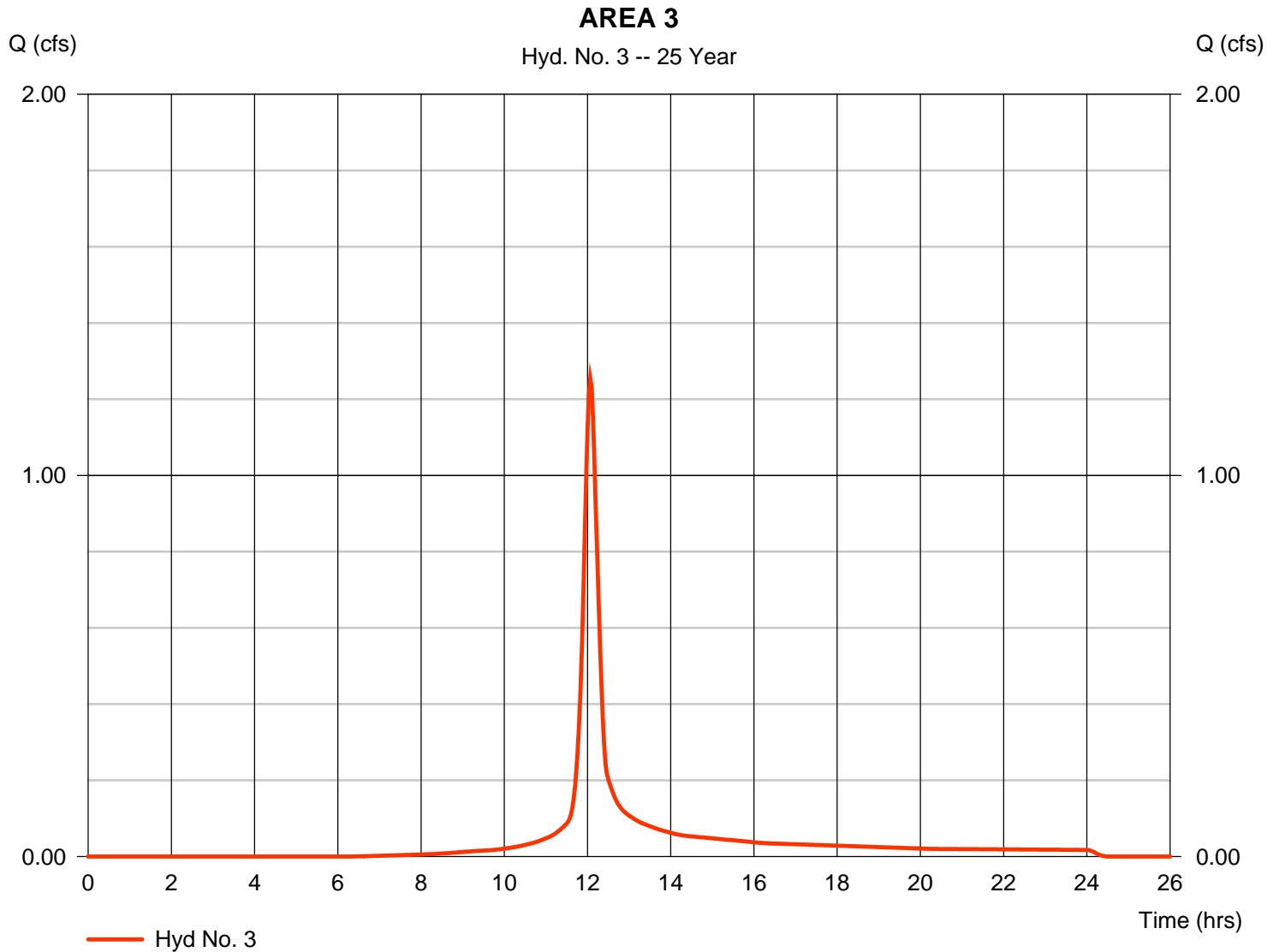
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 3

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 1.254 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 0.090 acft
Drainage area	= 0.280 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.40 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

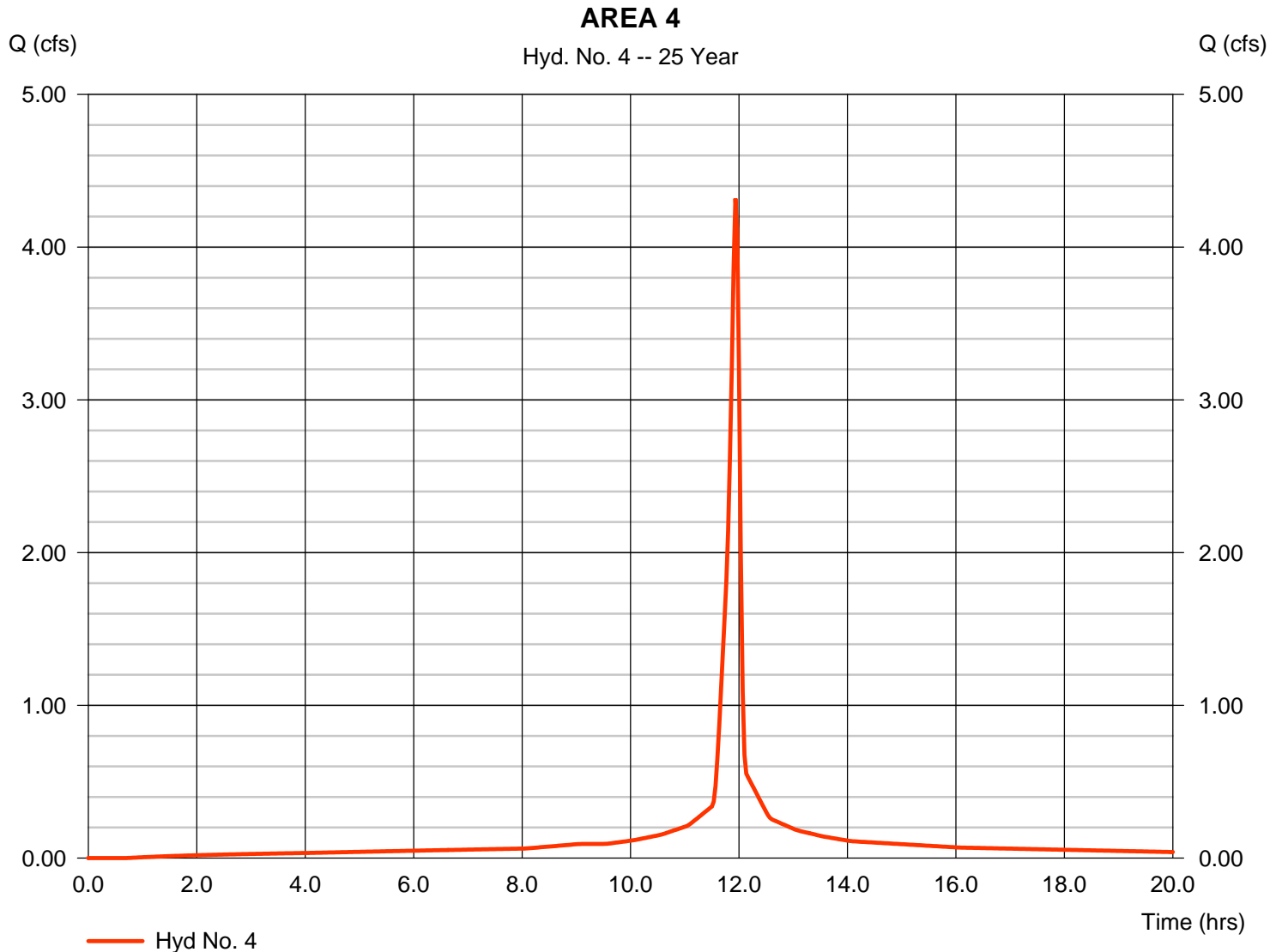
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 4

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 4.318 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.238 acft
Drainage area	= 0.520 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

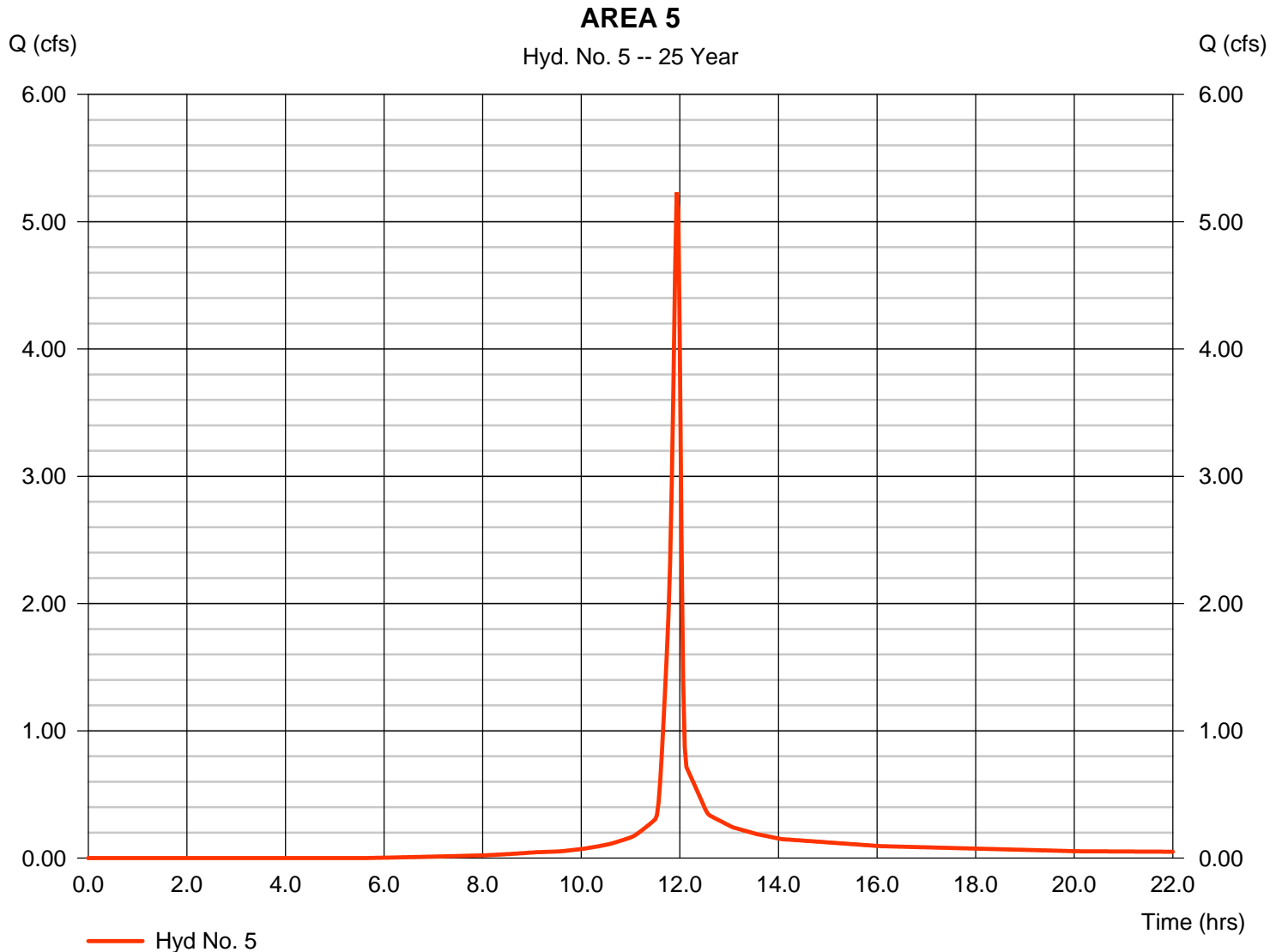
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 5

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 5.229 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.249 acft
Drainage area	= 0.780 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.90 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

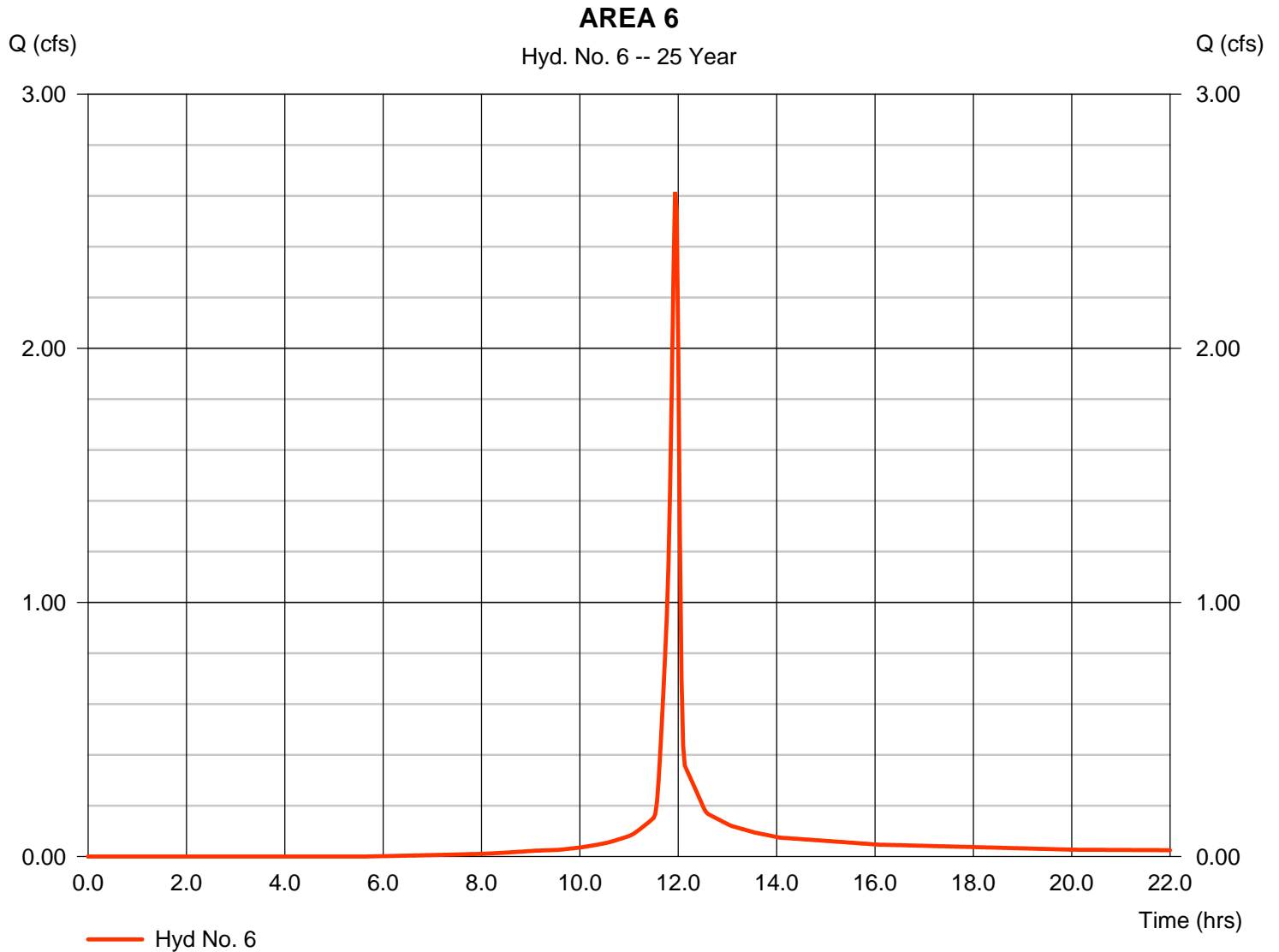


Hydrograph Report

Hyd. No. 6

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 2.614 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.124 acft
Drainage area	= 0.390 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

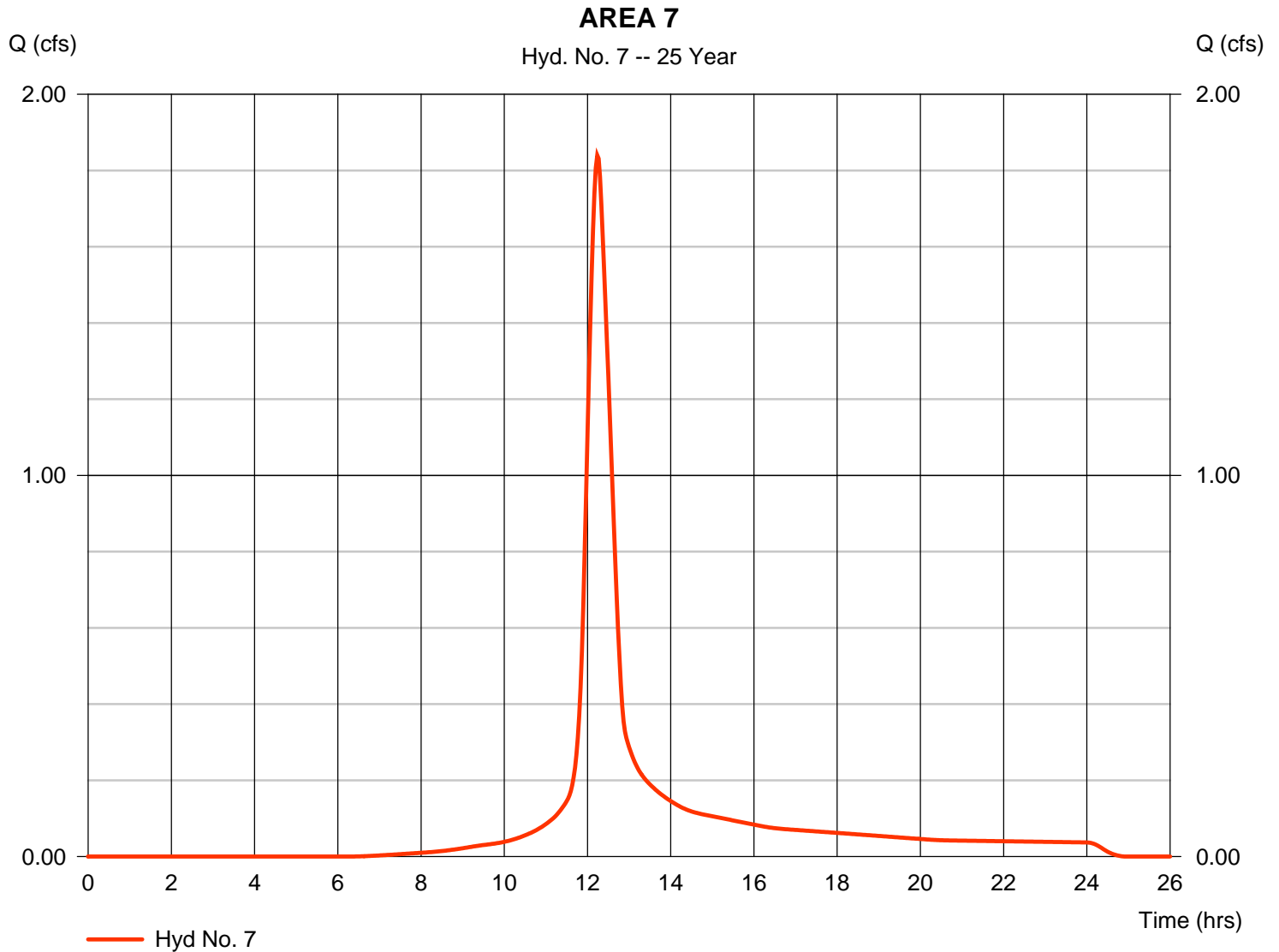
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 7

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 1.840 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.23 hrs
Time interval	= 2 min	Hyd. volume	= 0.191 acft
Drainage area	= 0.600 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 35.70 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

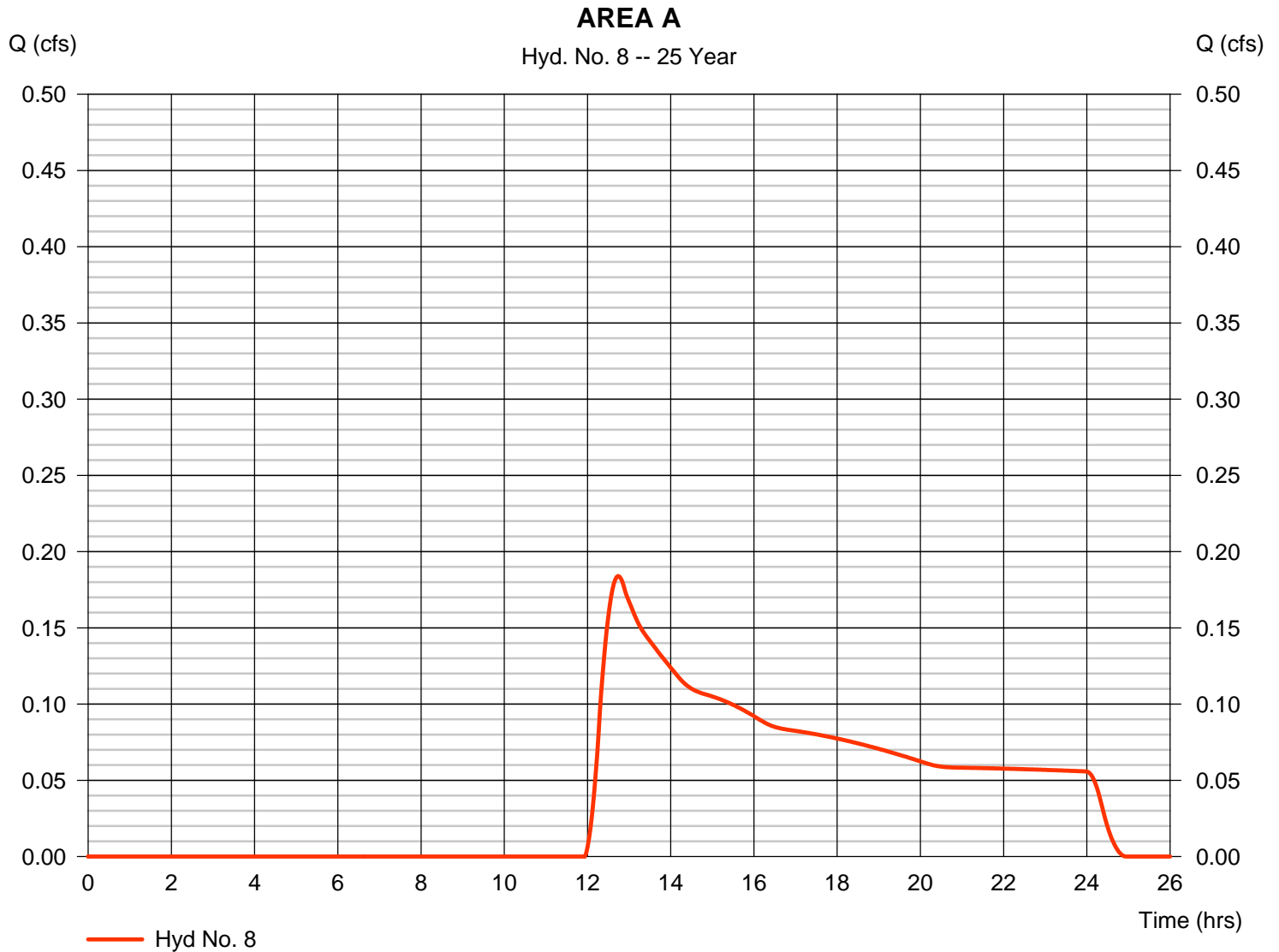
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 8

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.184 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.73 hrs
Time interval	= 2 min	Hyd. volume	= 0.086 acft
Drainage area	= 3.850 ac	Curve number	= 35
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 34.80 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

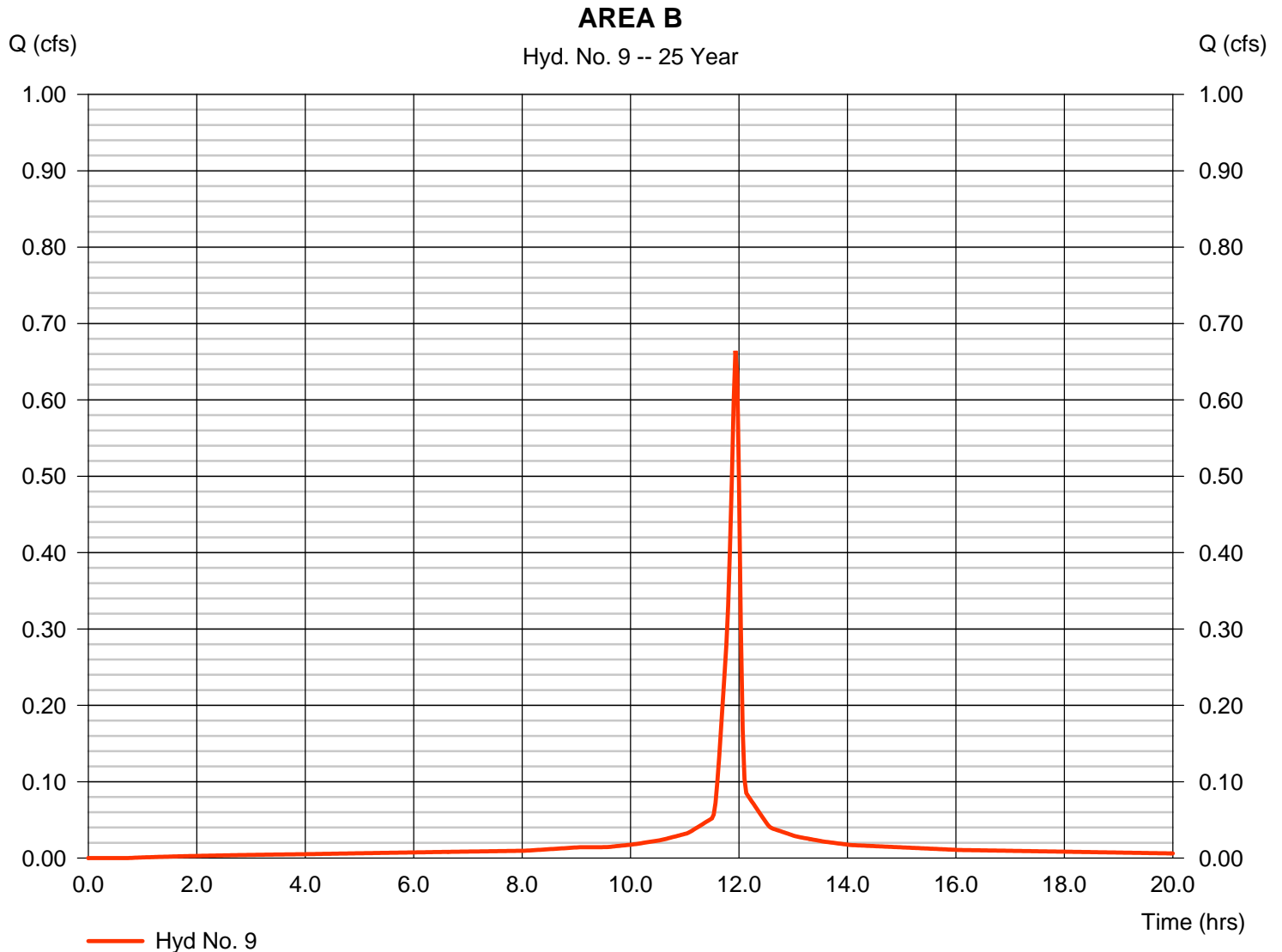
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 9

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.664 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.037 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

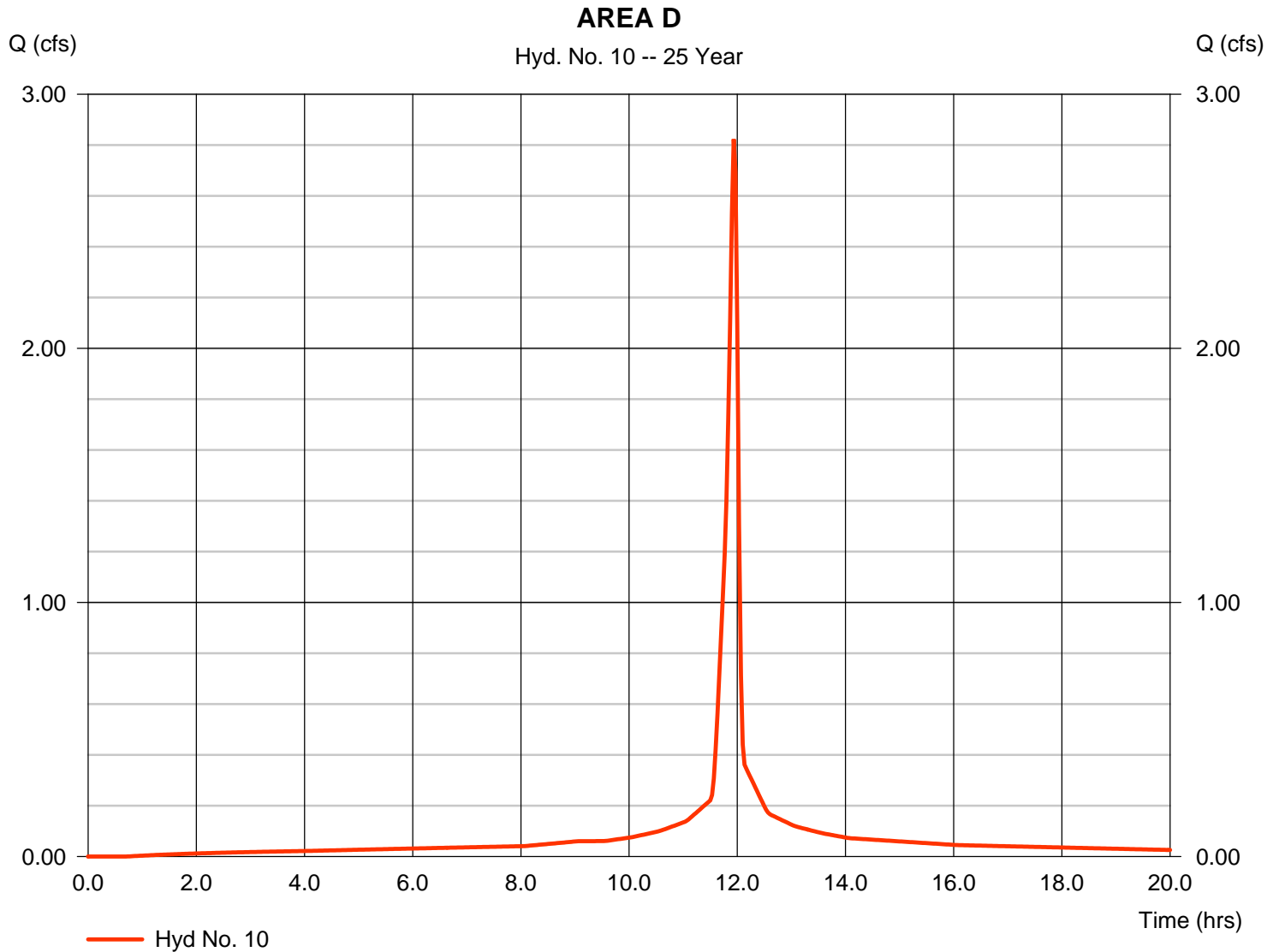
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 10

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 2.823 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.156 acft
Drainage area	= 0.340 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.20 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

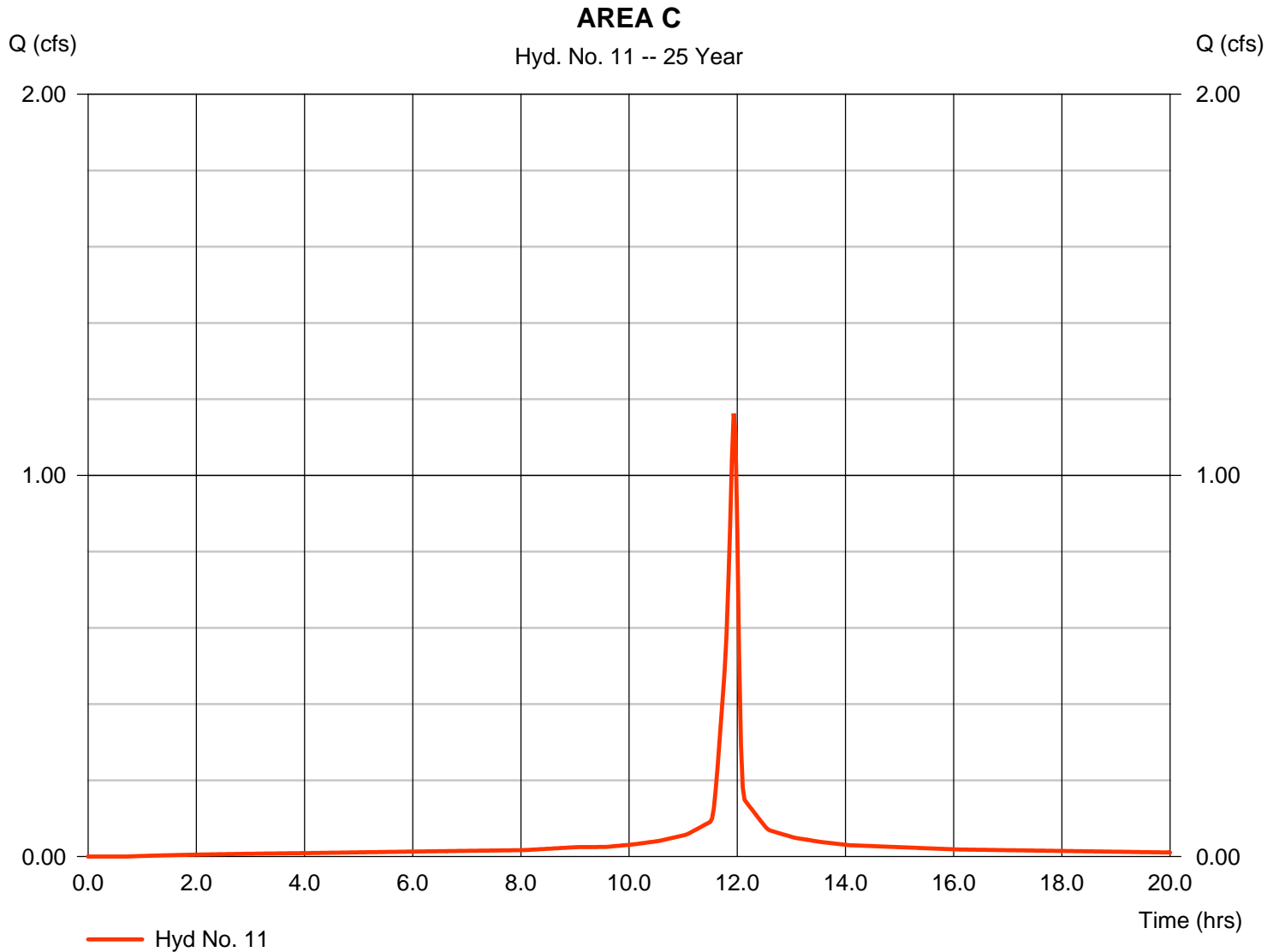
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 11

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 1.163 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.064 acft
Drainage area	= 0.140 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

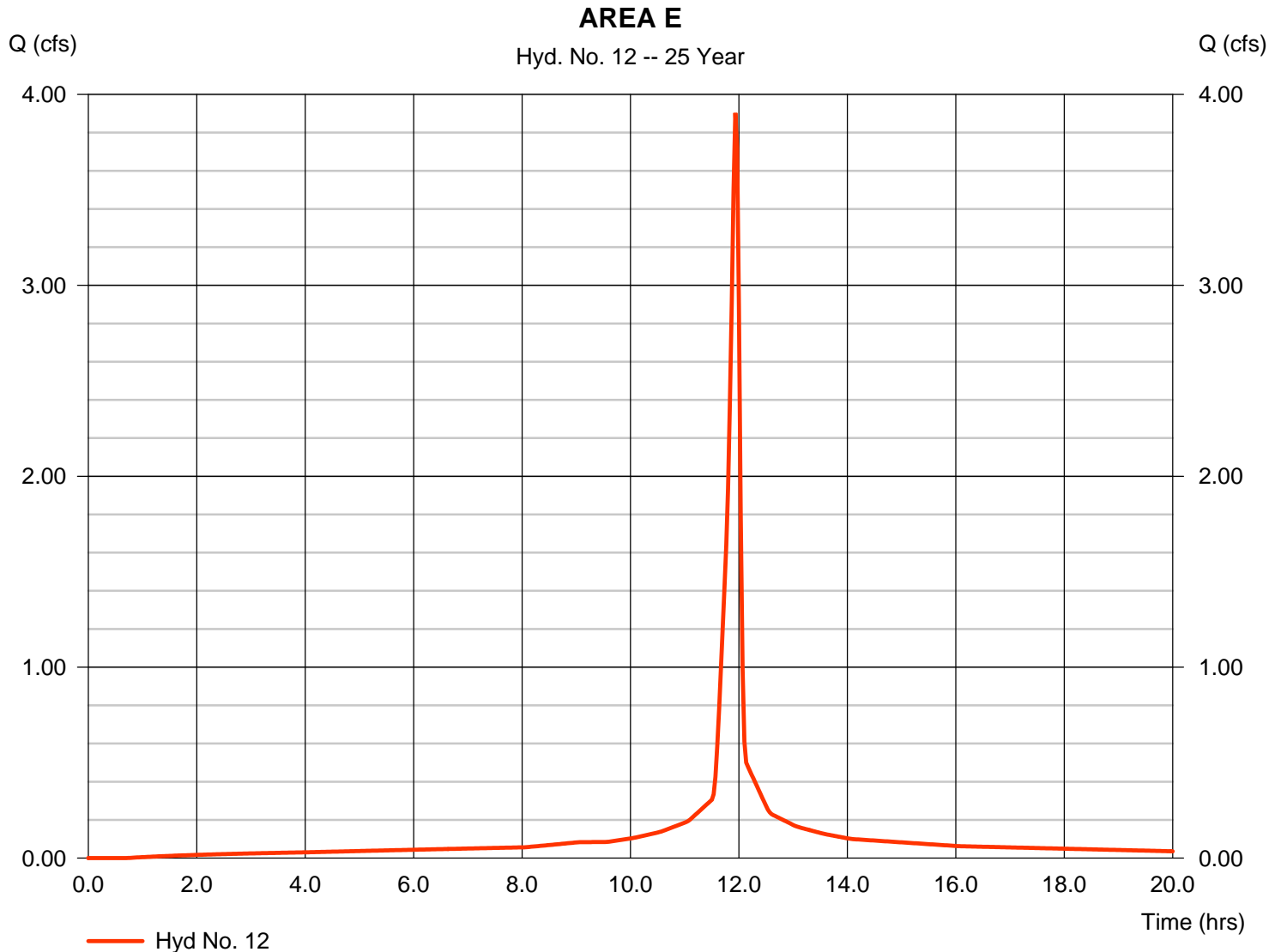
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 12

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 3.903 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.215 acft
Drainage area	= 0.470 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

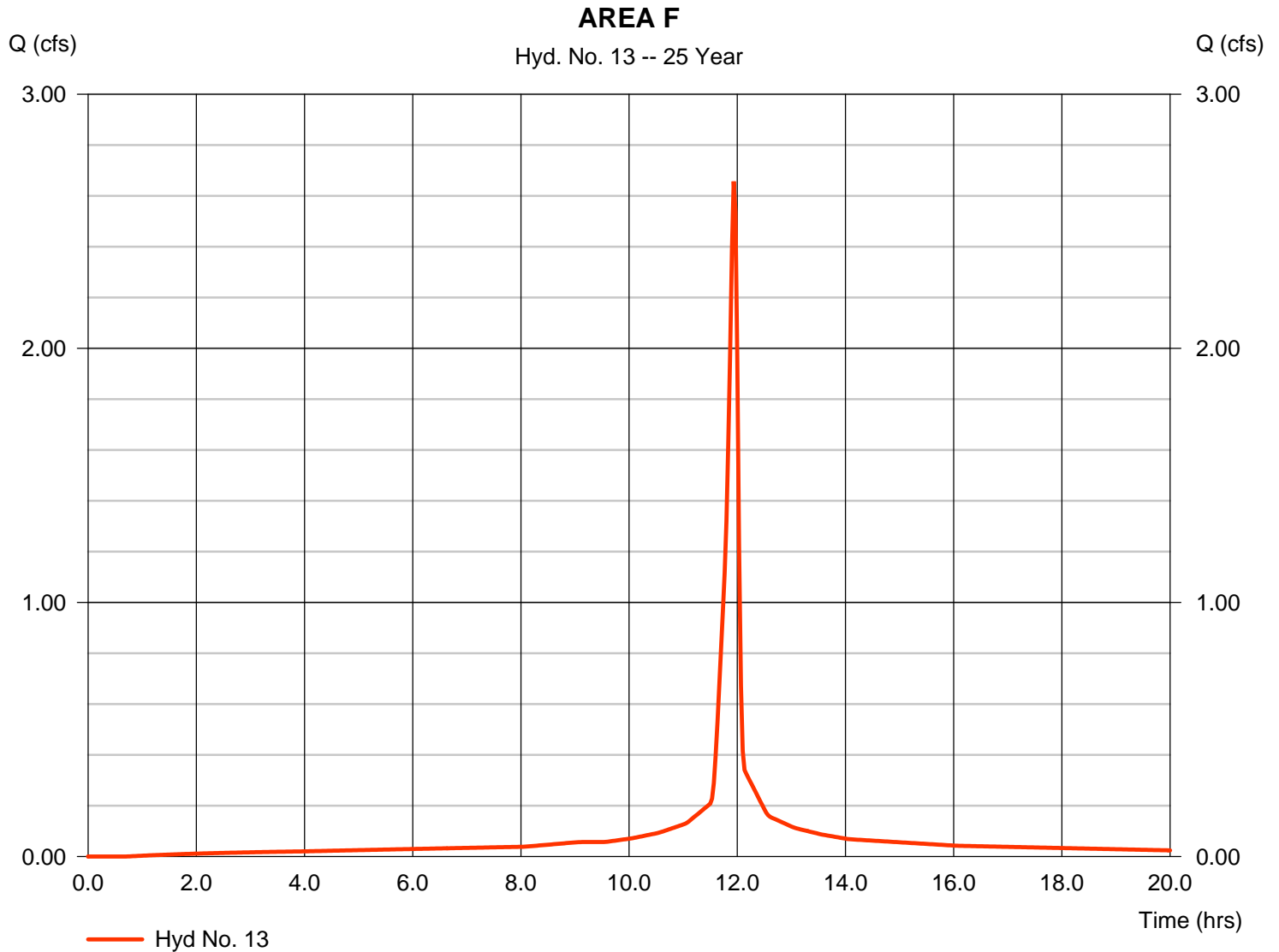
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 13

AREA F

Hydrograph type	= SCS Runoff	Peak discharge	= 2.657 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.147 acft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

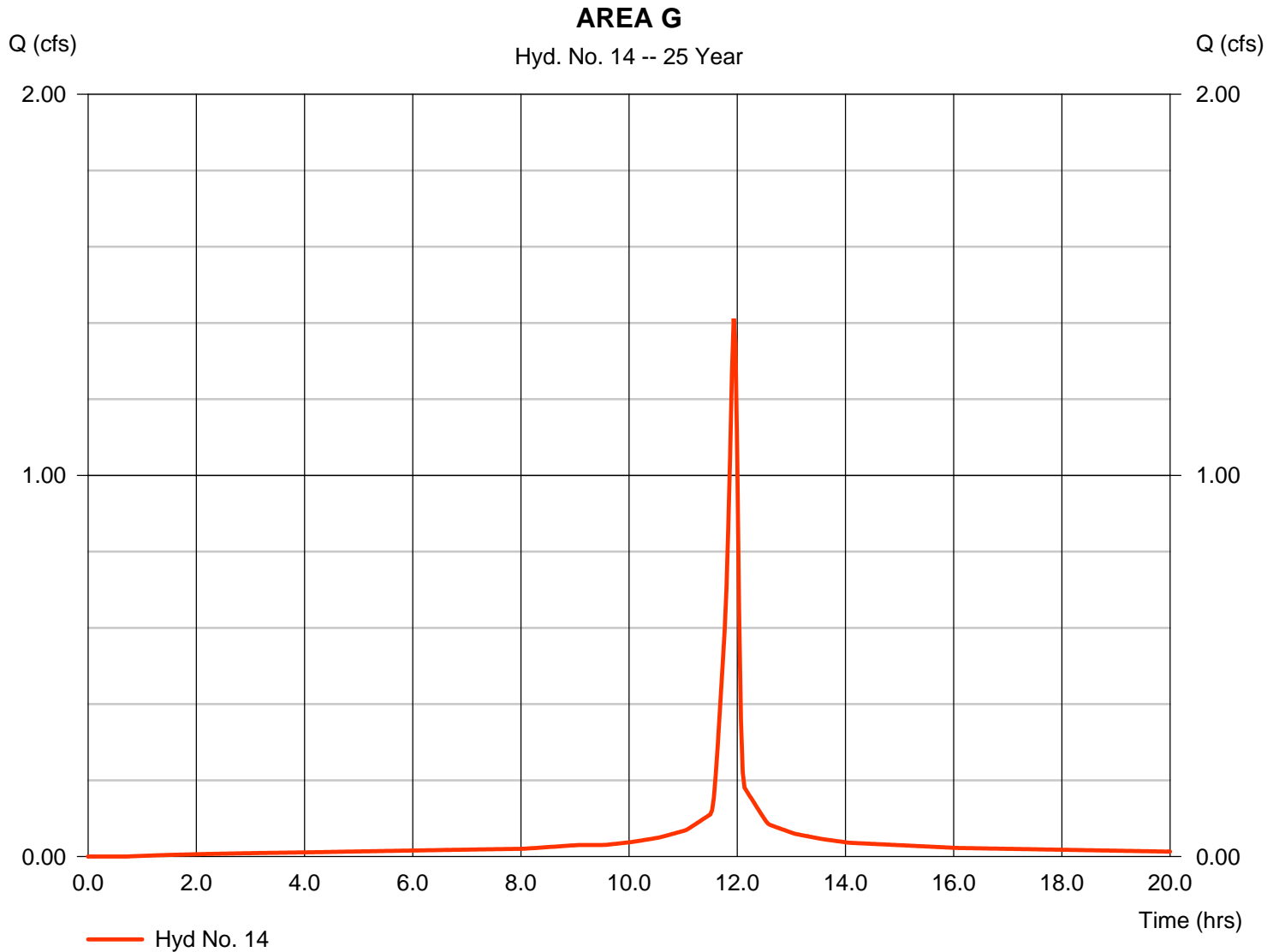
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 14

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 1.412 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.078 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.50 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

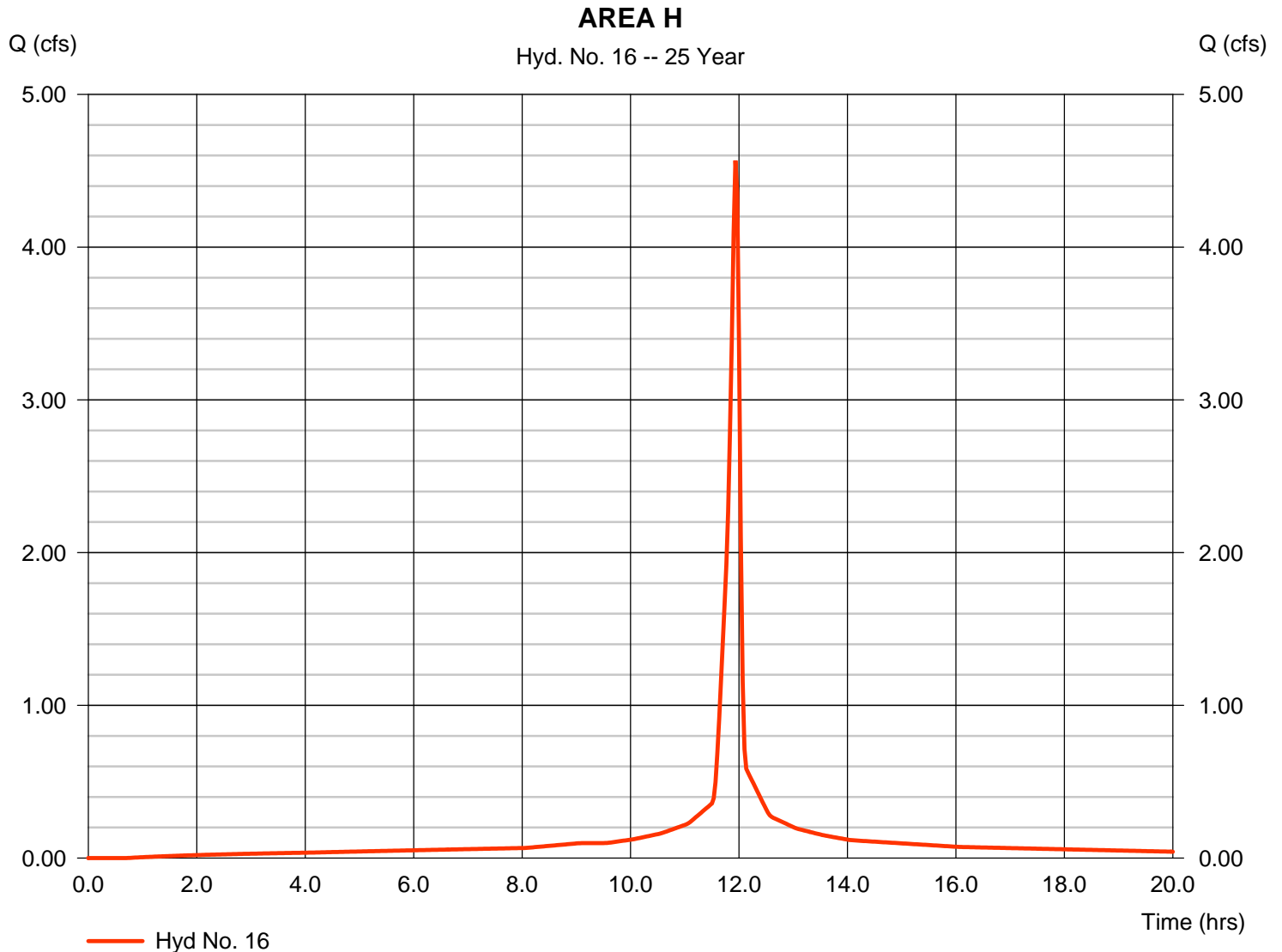
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 16

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 4.567 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.252 acft
Drainage area	= 0.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

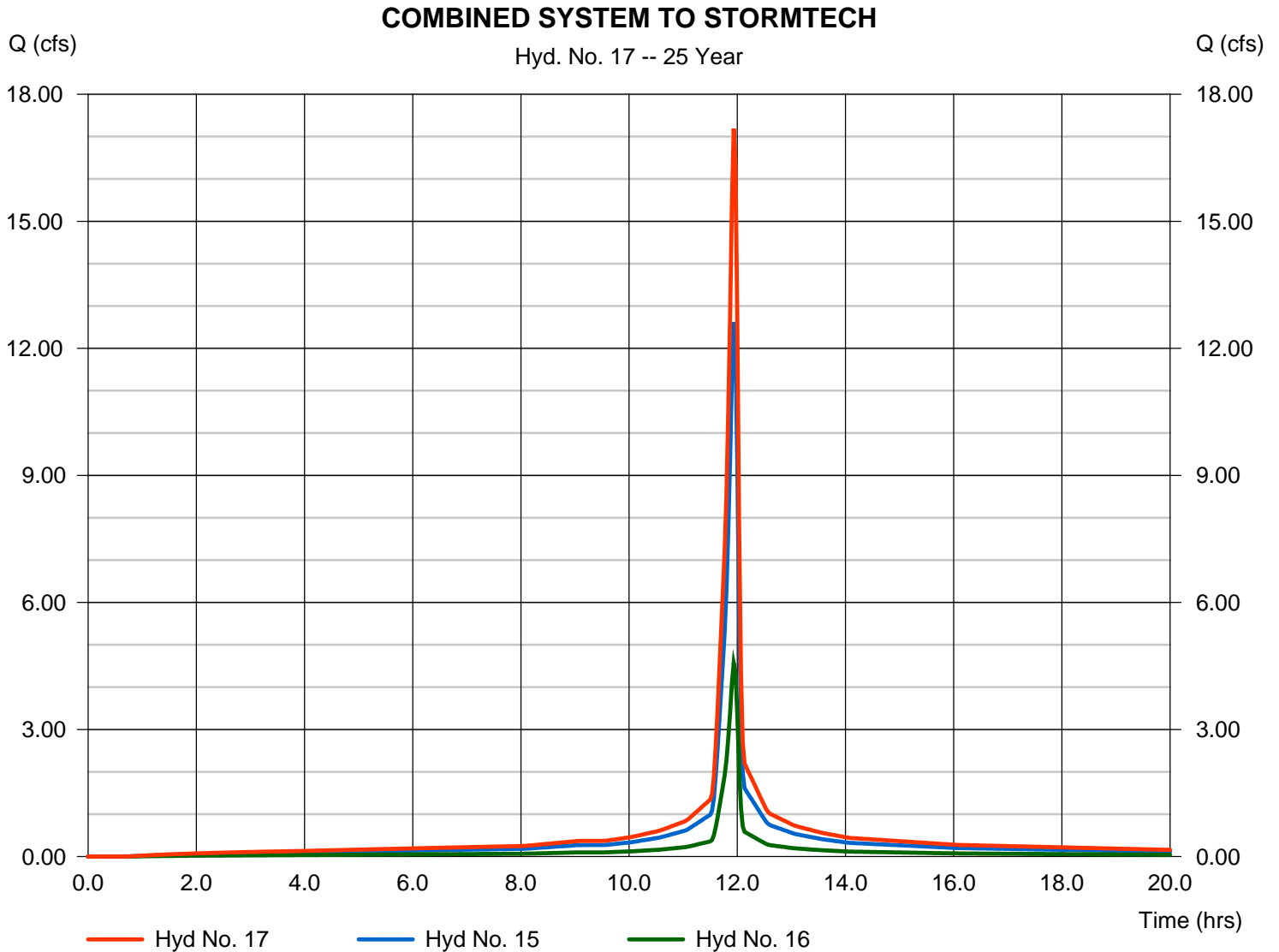
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 17

COMBINED SYSTEM TO STORMTECH

Hydrograph type	= Combine	Peak discharge	= 17.19 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.948 acft
Inflow hyds.	= 15, 16	Contrib. drain. area	= 0.550 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

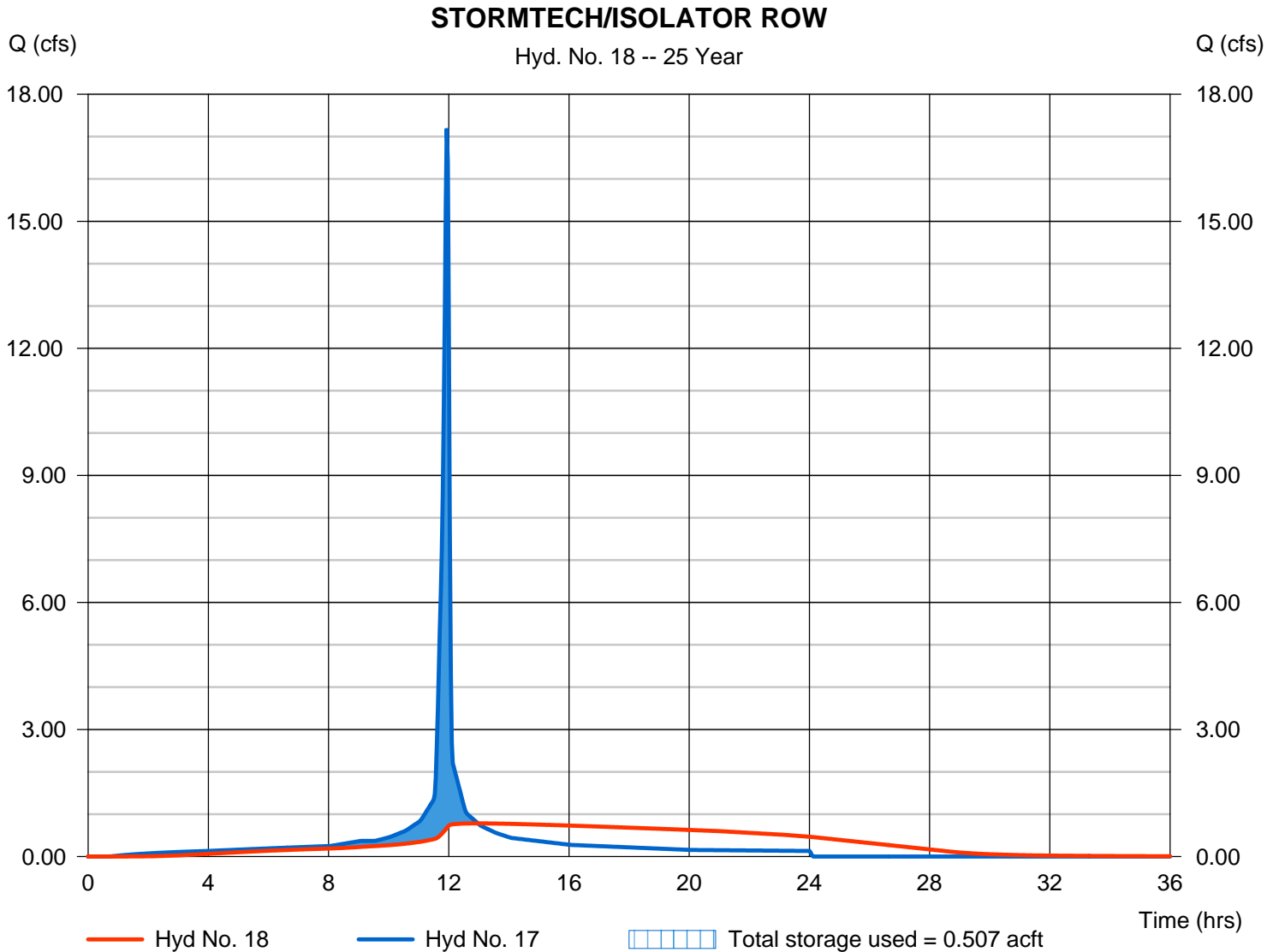
Friday, 00 6, 2012

Hyd. No. 18

STORMTECH/ISOLATOR ROW

Hydrograph type	= Reservoir	Peak discharge	= 0.782 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.97 hrs
Time interval	= 2 min	Hyd. volume	= 0.947 acft
Inflow hyd. No.	= 17 - COMBINED SYSTEM TO STORMTECH	Max. Elevation	= 1343.63 ft
Reservoir name	= STORMTECH 3500	Max. Storage	= 0.507 acft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description	
1	SCS Runoff	19.79	2	732	1.969	-----	-----	-----	AREA 1	
2	SCS Runoff	1.784	2	728	0.151	-----	-----	-----	AREA 2	
3	SCS Runoff	1.485	2	724	0.107	-----	-----	-----	AREA 3	
4	SCS Runoff	4.888	2	716	0.271	-----	-----	-----	AREA 4	
5	SCS Runoff	6.130	2	716	0.294	-----	-----	-----	AREA 5	
6	SCS Runoff	3.065	2	716	0.147	-----	-----	-----	AREA 6	
7	SCS Runoff	2.182	2	734	0.227	-----	-----	-----	AREA 7	
8	SCS Runoff	0.479	2	752	0.148	-----	-----	-----	AREA A	
9	SCS Runoff	0.752	2	716	0.042	-----	-----	-----	AREA B	
10	SCS Runoff	3.196	2	716	0.177	-----	-----	-----	AREA D	
11	SCS Runoff	1.316	2	716	0.073	-----	-----	-----	AREA C	
12	SCS Runoff	4.418	2	716	0.245	-----	-----	-----	AREA E	
13	SCS Runoff	3.008	2	716	0.167	-----	-----	-----	AREA F	
14	SCS Runoff	1.598	2	716	0.088	-----	-----	-----	AREA G	
15	Combine	14.29	2	716	0.791	9, 10, 11, 12, 13, 14	-----	-----	STORMTECH AREA	
16	SCS Runoff	5.170	2	716	0.286	-----	-----	-----	AREA H	
17	Combine	19.46	2	716	1.077	15, 16	-----	-----	COMBINED SYSTEM TO STORMTE	
18	Reservoir	0.830	2	784	1.077	17	1344.07	0.583	STORMTECH/ISOLATOR ROW	
13TH AND MAIZE 3.16.12.gpw					Return Period: 50 Year			Friday, 00 6, 2012		

Hydrograph Report

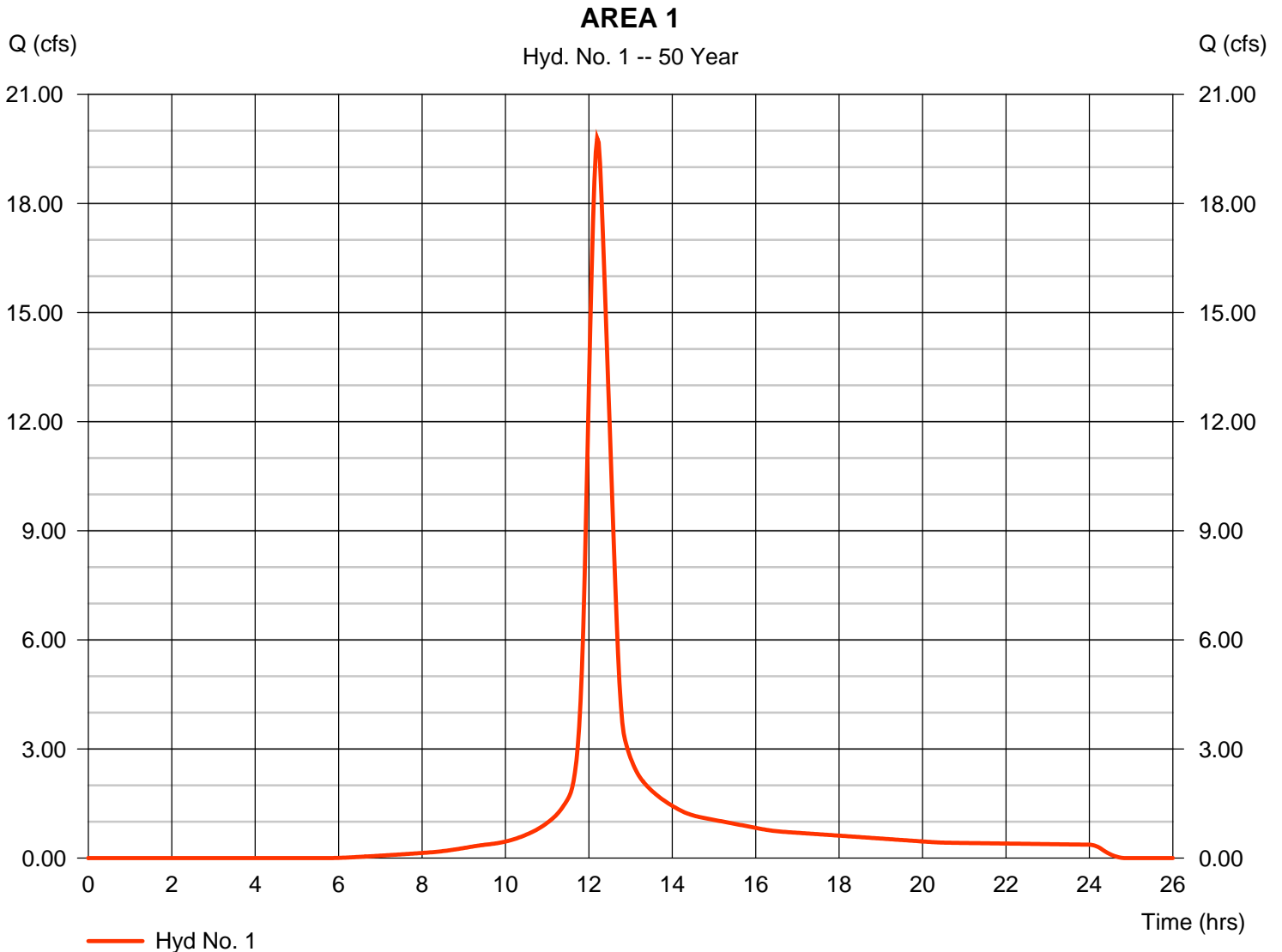
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 1

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 19.79 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 1.969 acft
Drainage area	= 5.070 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 32.10 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

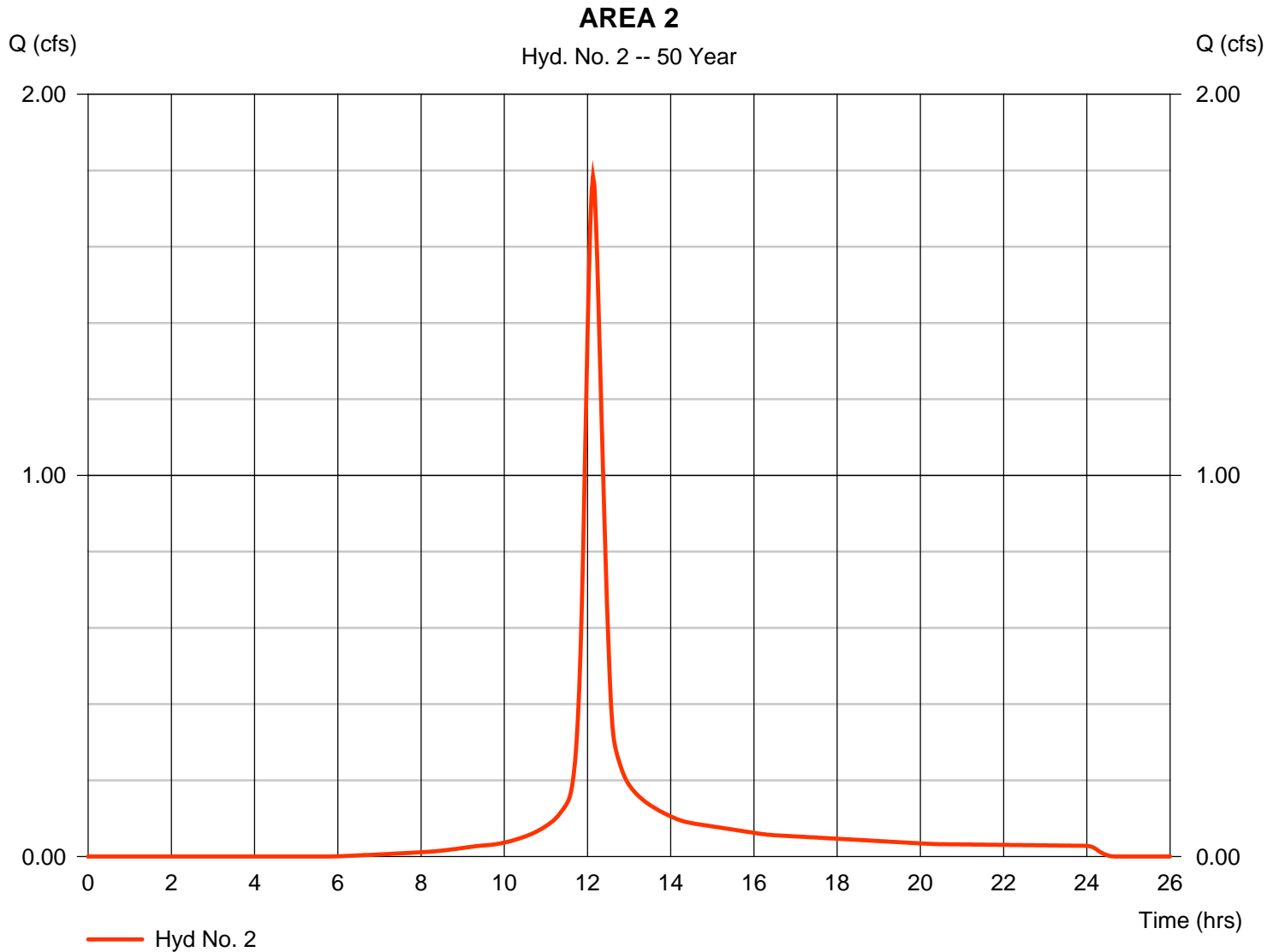
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 2

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 1.784 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 0.151 acft
Drainage area	= 0.400 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 25.30 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

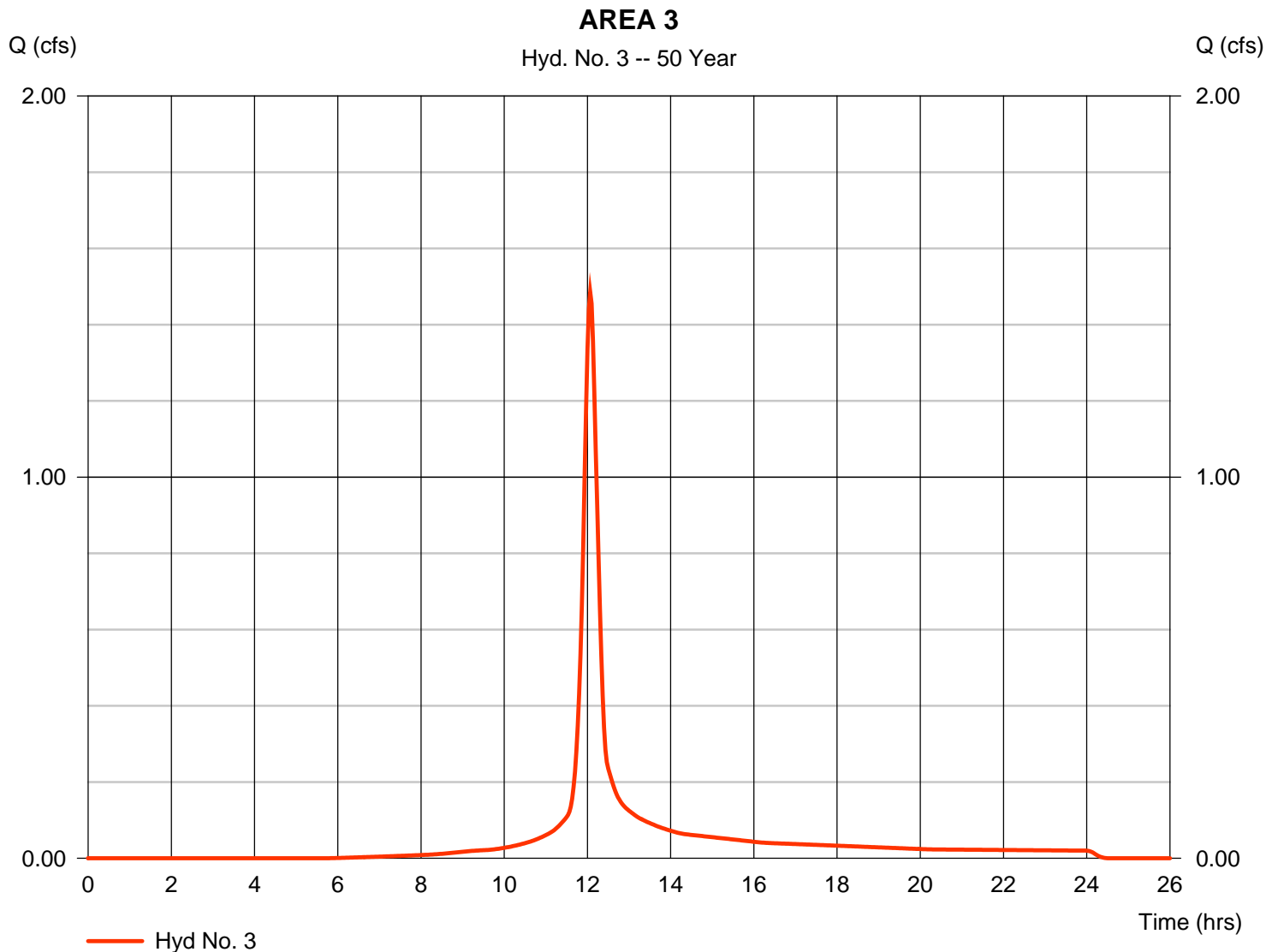
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 3

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 1.485 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 0.107 acft
Drainage area	= 0.280 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.40 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

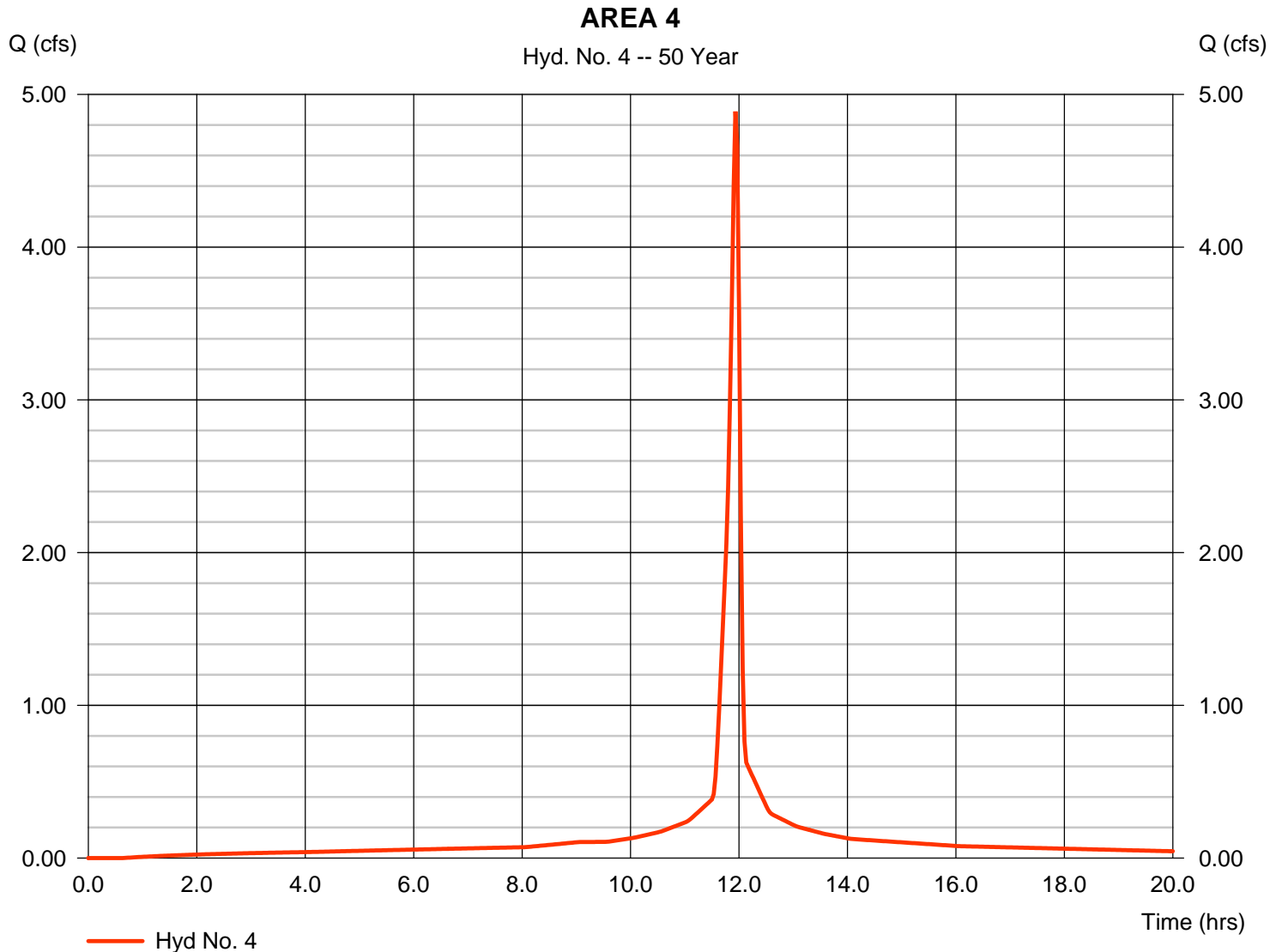
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 4

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 4.888 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.271 acft
Drainage area	= 0.520 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

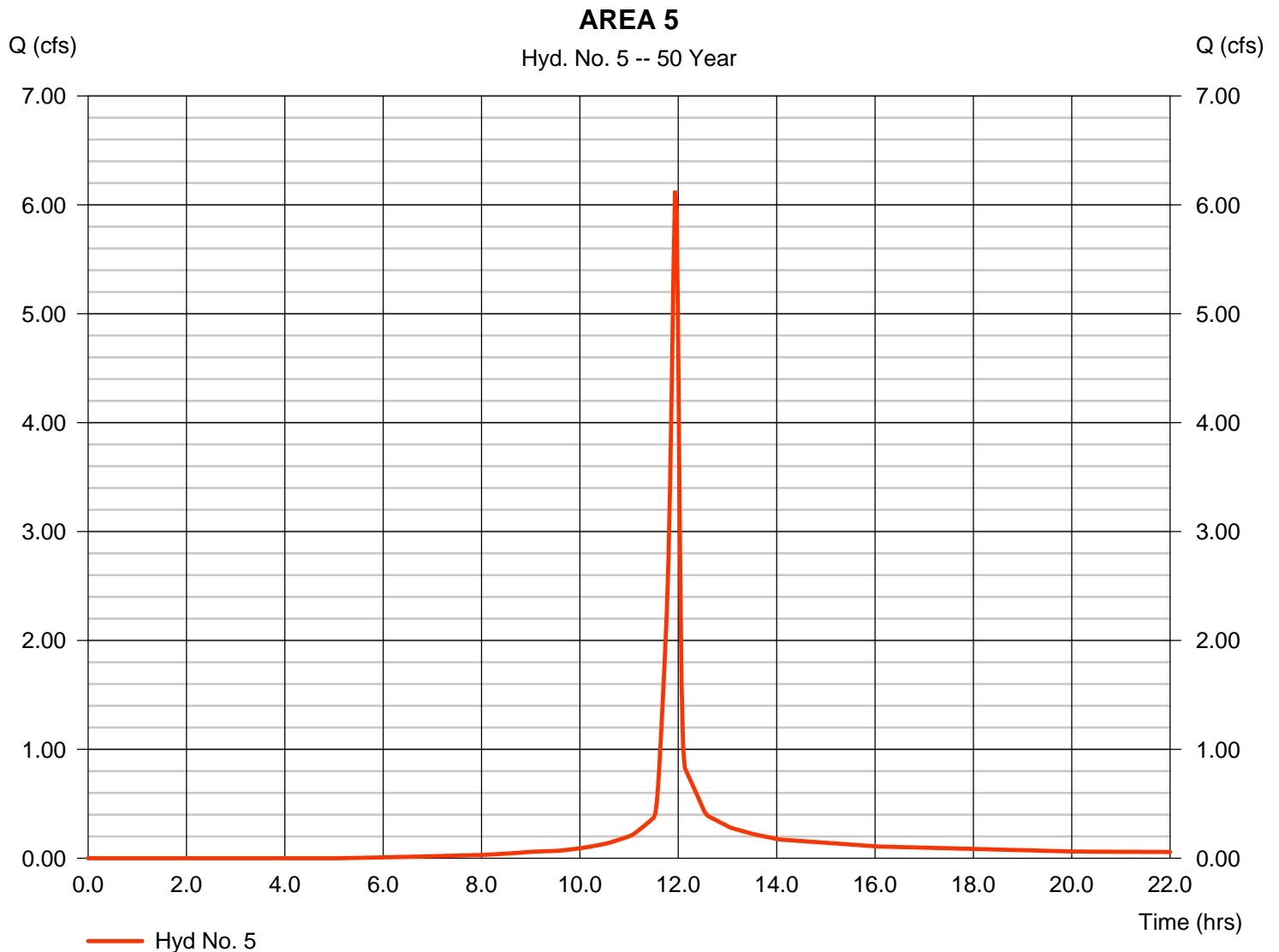
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 5

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 6.130 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.294 acft
Drainage area	= 0.780 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.90 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

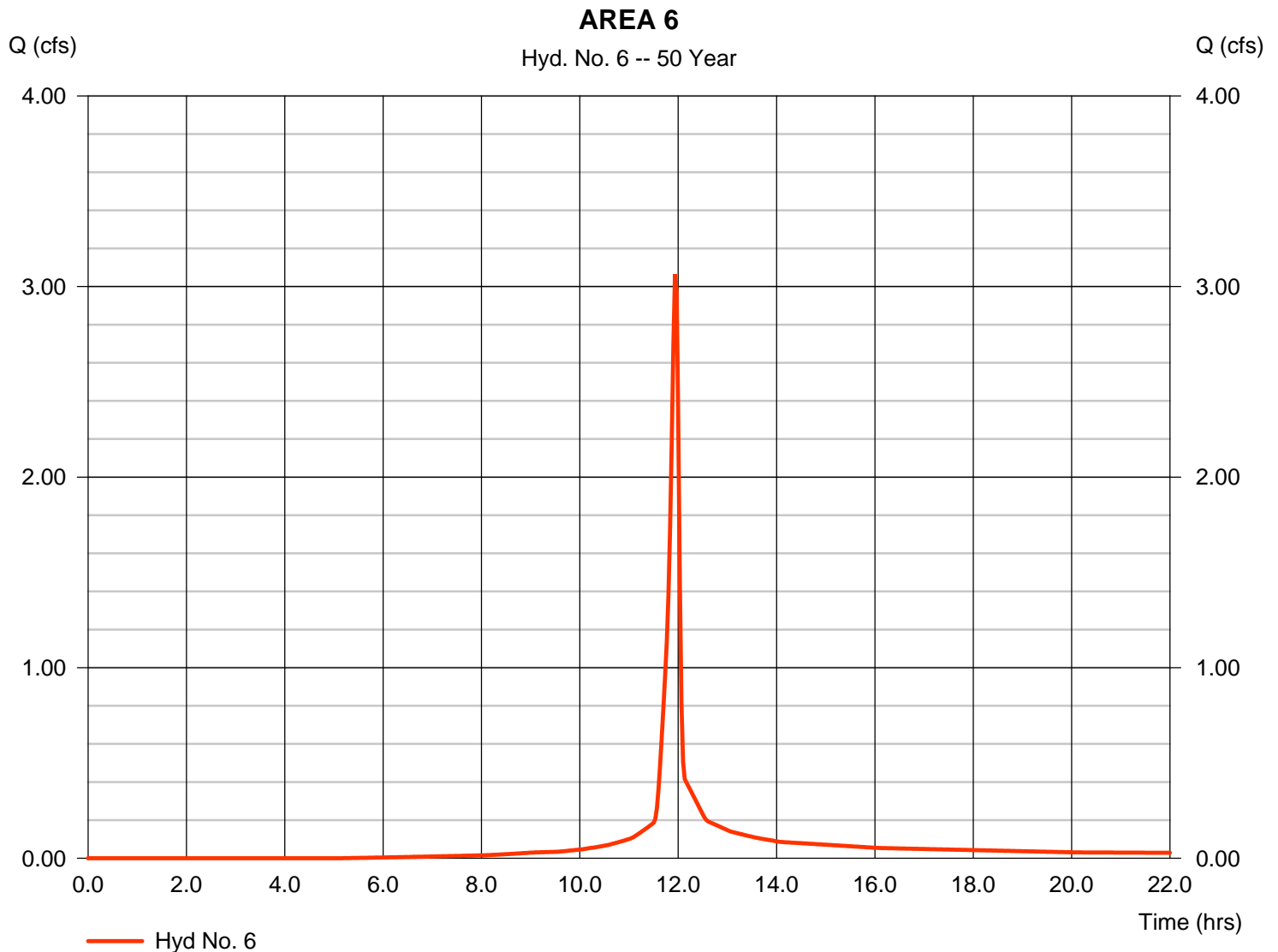
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 6

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 3.065 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.147 acft
Drainage area	= 0.390 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

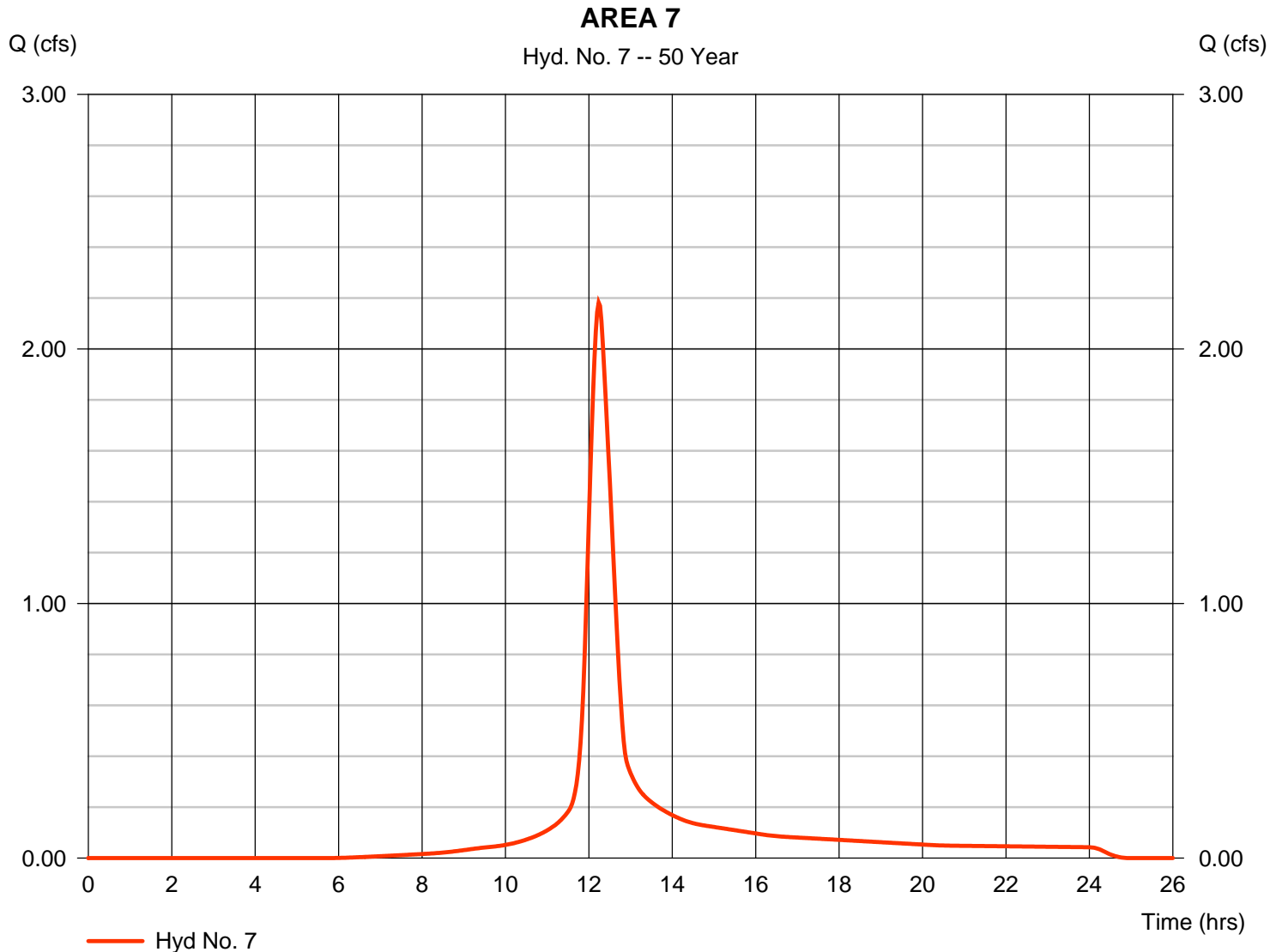
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 7

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 2.182 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.23 hrs
Time interval	= 2 min	Hyd. volume	= 0.227 acft
Drainage area	= 0.600 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 35.70 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

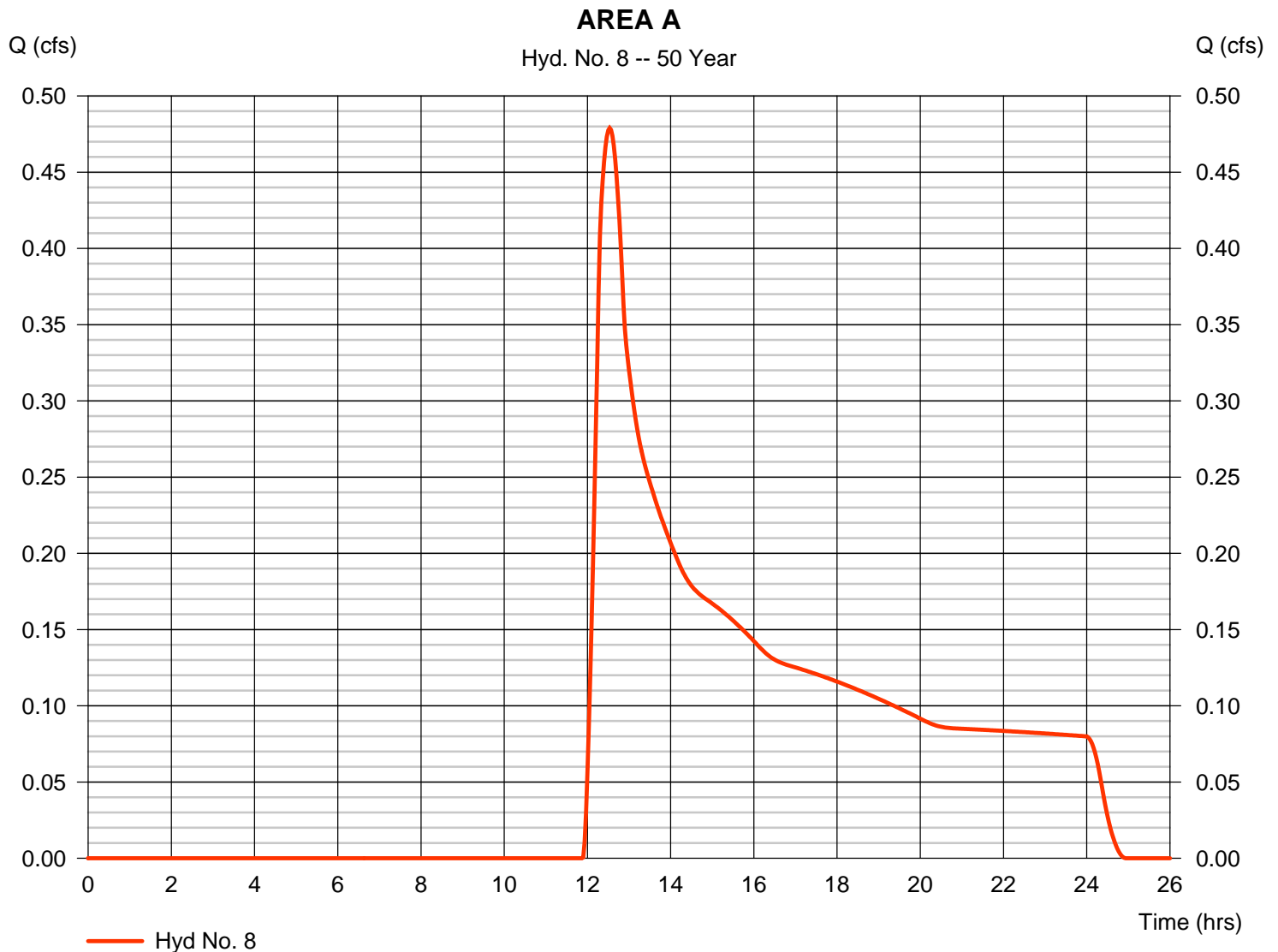
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 8

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.479 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.53 hrs
Time interval	= 2 min	Hyd. volume	= 0.148 acft
Drainage area	= 3.850 ac	Curve number	= 35
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 34.80 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

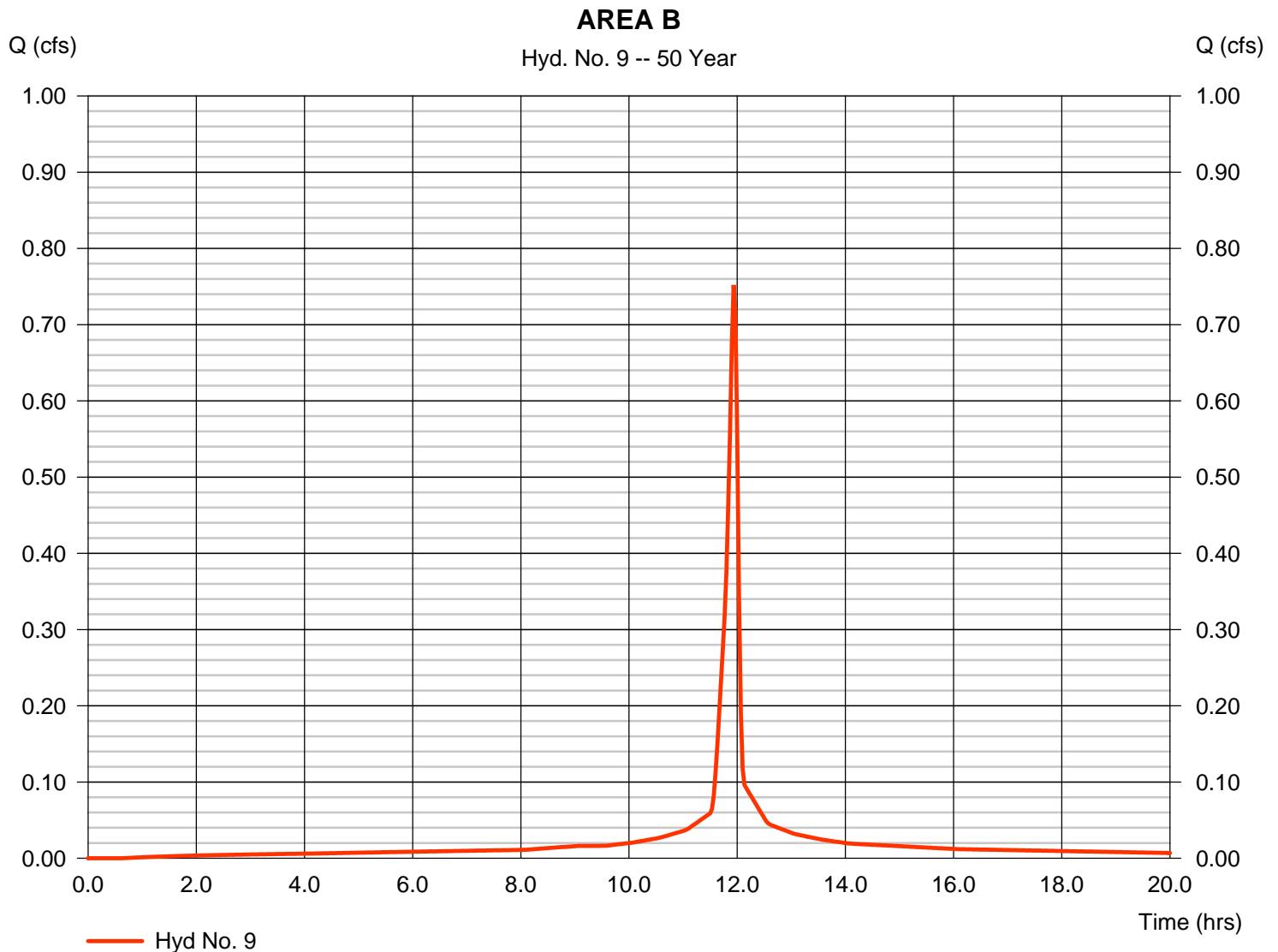
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 9

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.752 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.042 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

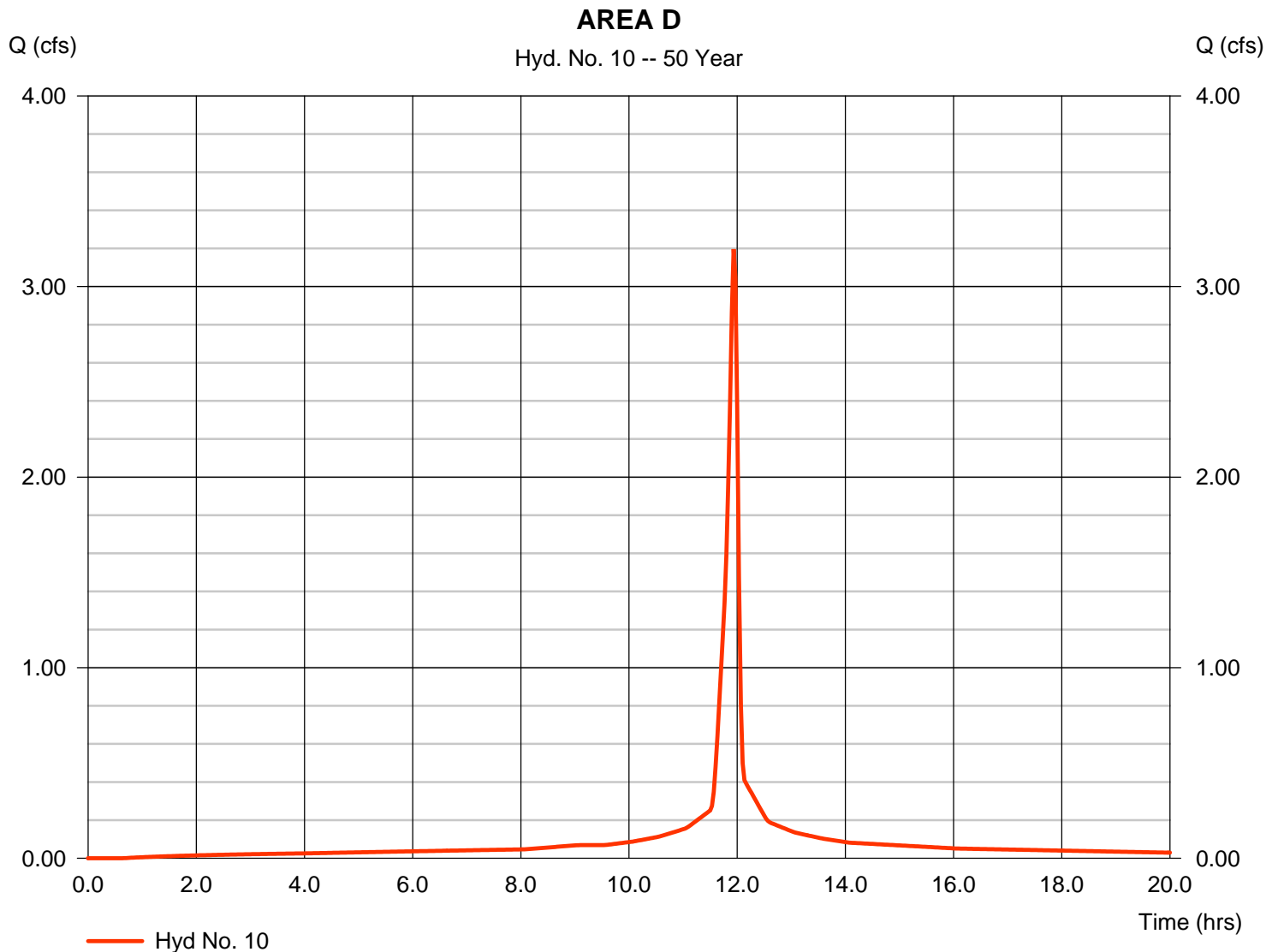
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 10

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 3.196 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.177 acft
Drainage area	= 0.340 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.20 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

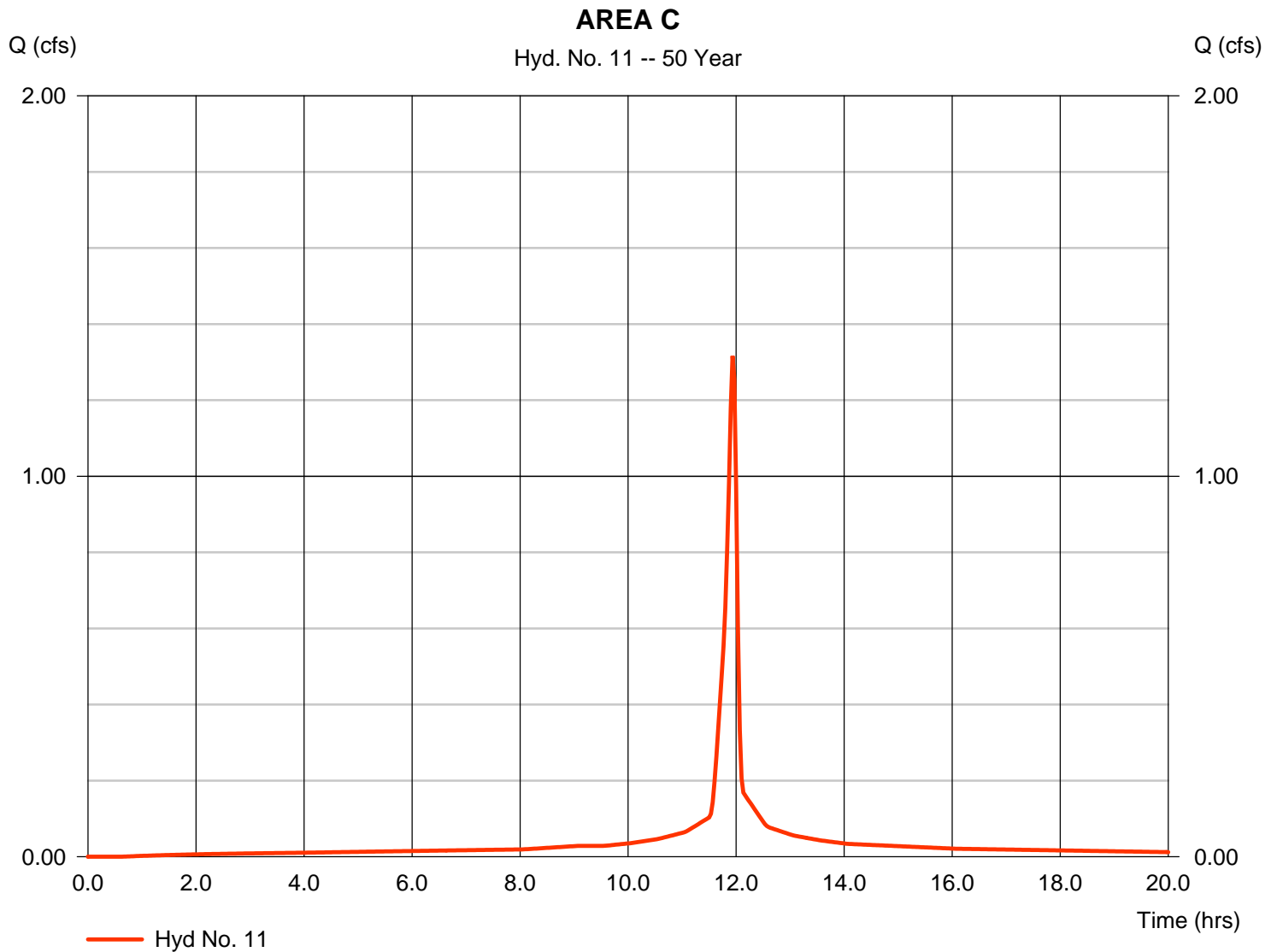
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 11

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 1.316 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.073 acft
Drainage area	= 0.140 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

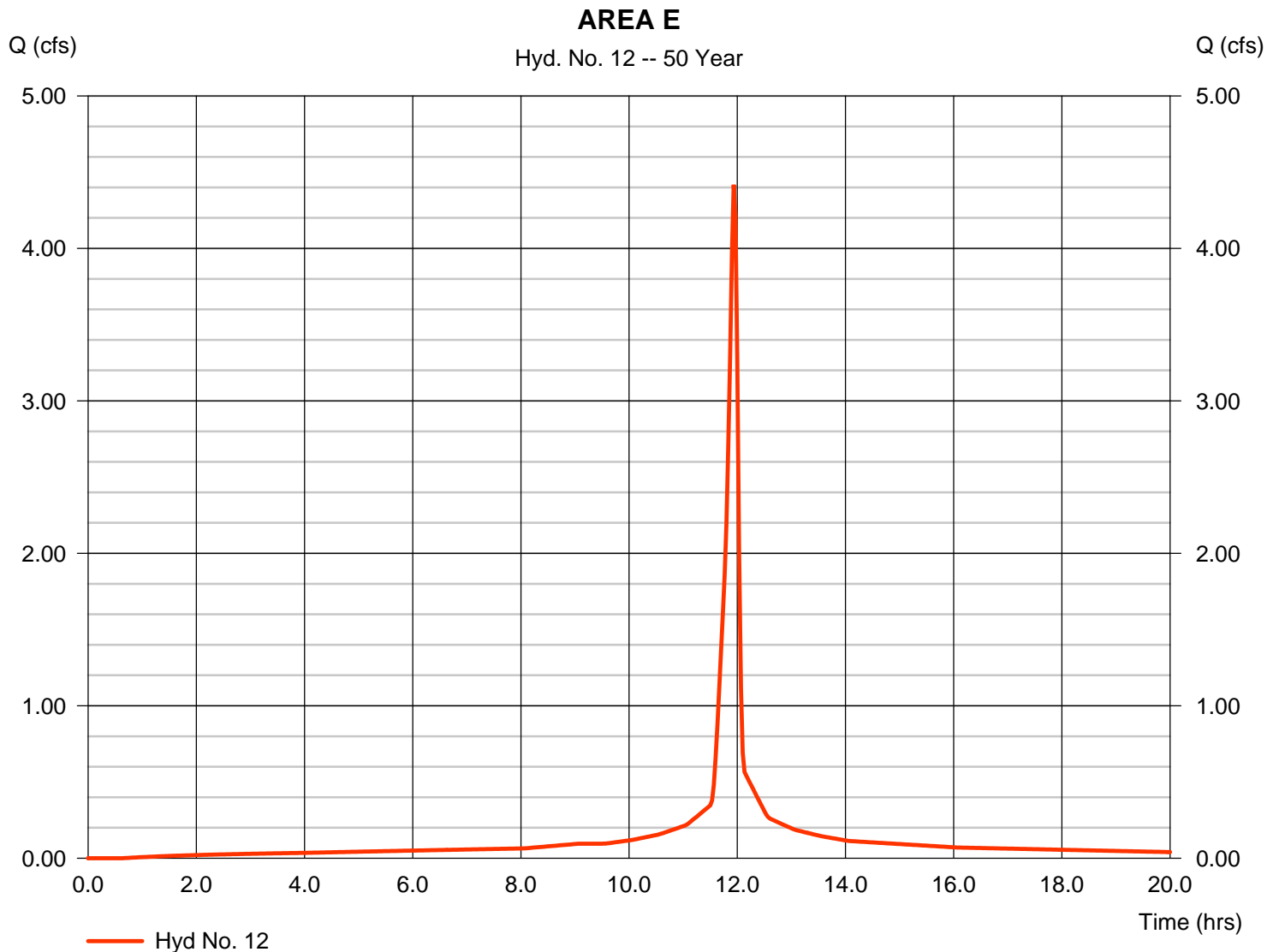
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 12

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 4.418 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.245 acft
Drainage area	= 0.470 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

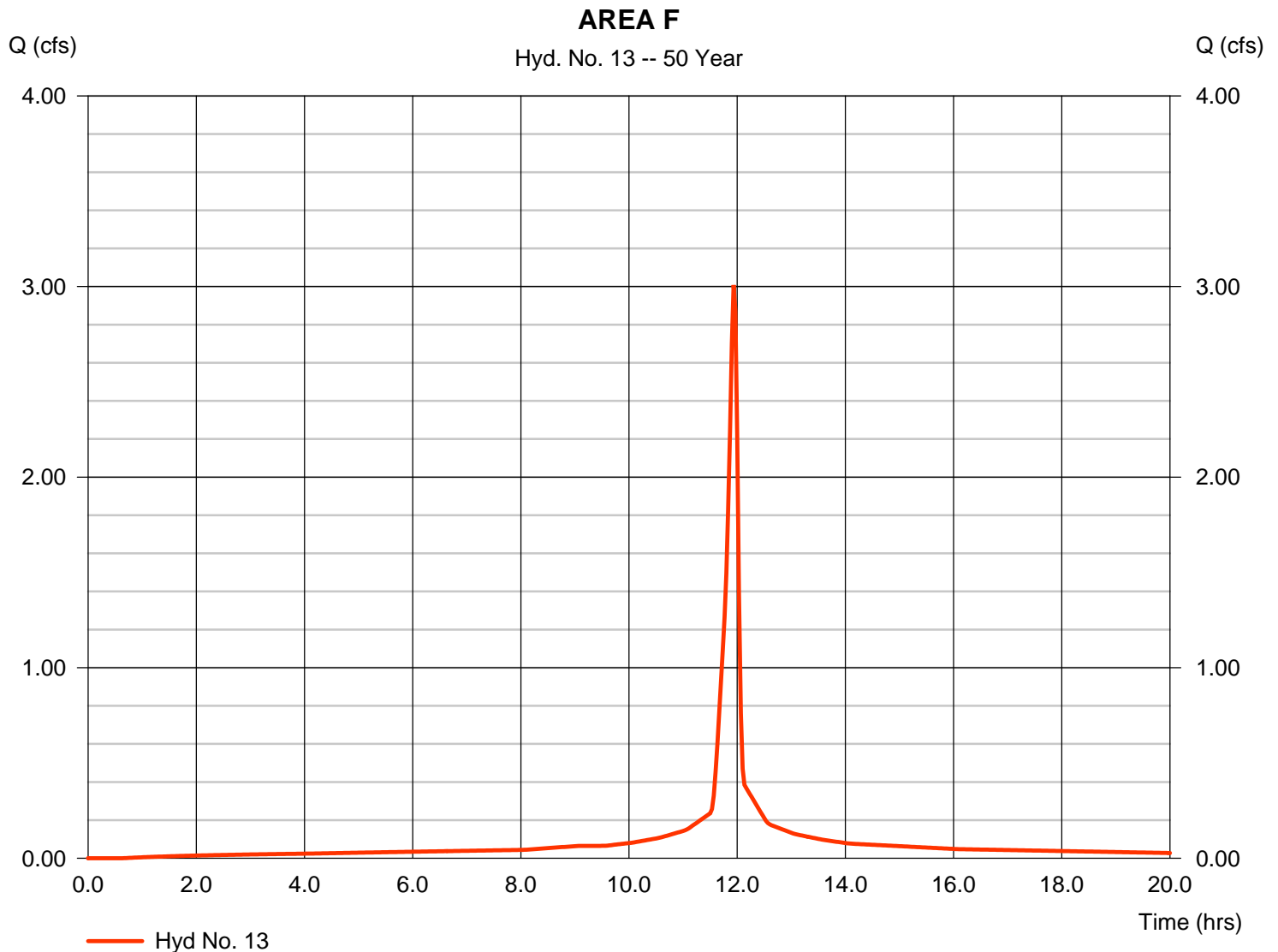
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 13

AREA F

Hydrograph type	= SCS Runoff	Peak discharge	= 3.008 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.167 acft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

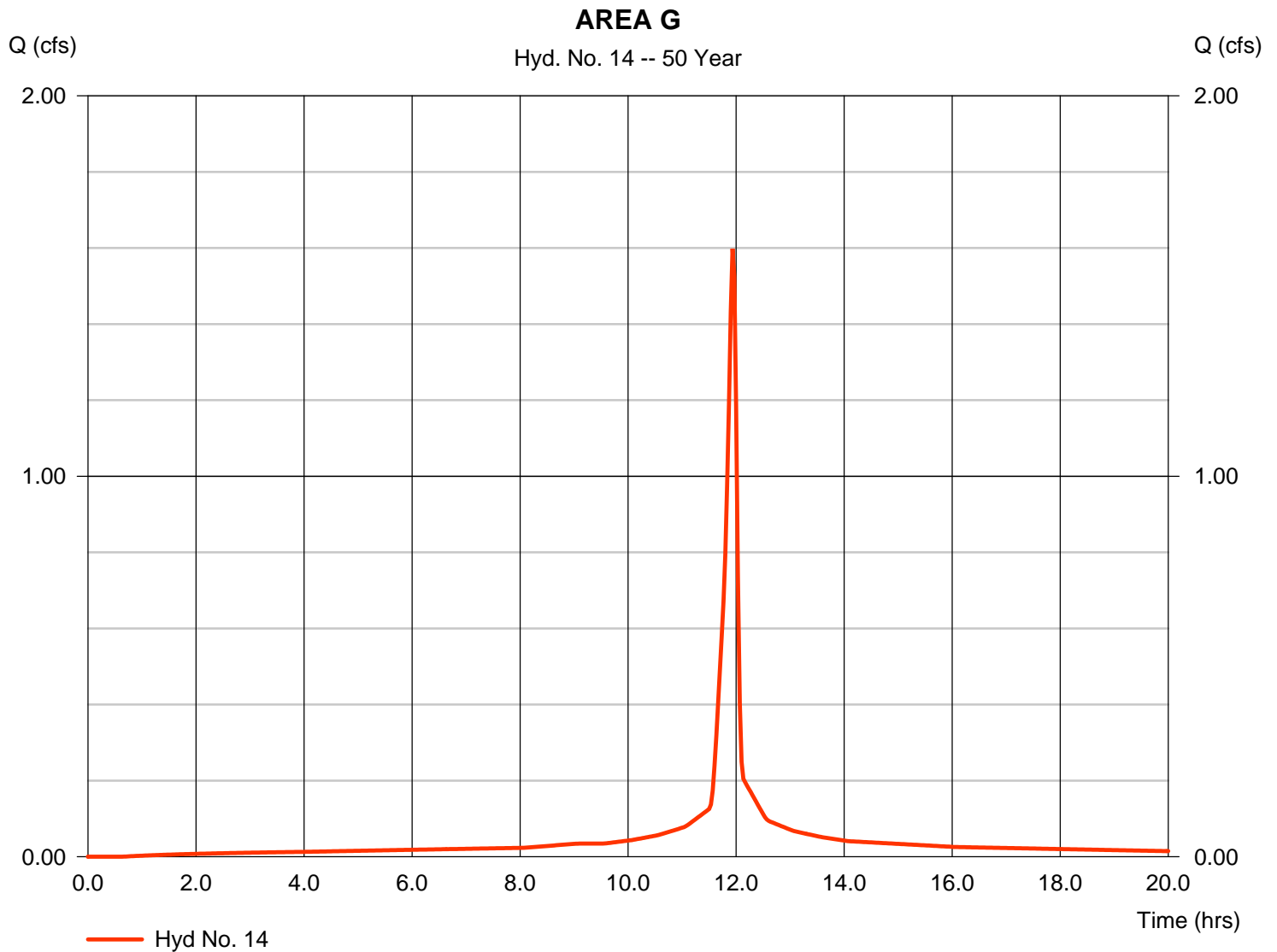
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 14

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 1.598 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.088 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.50 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

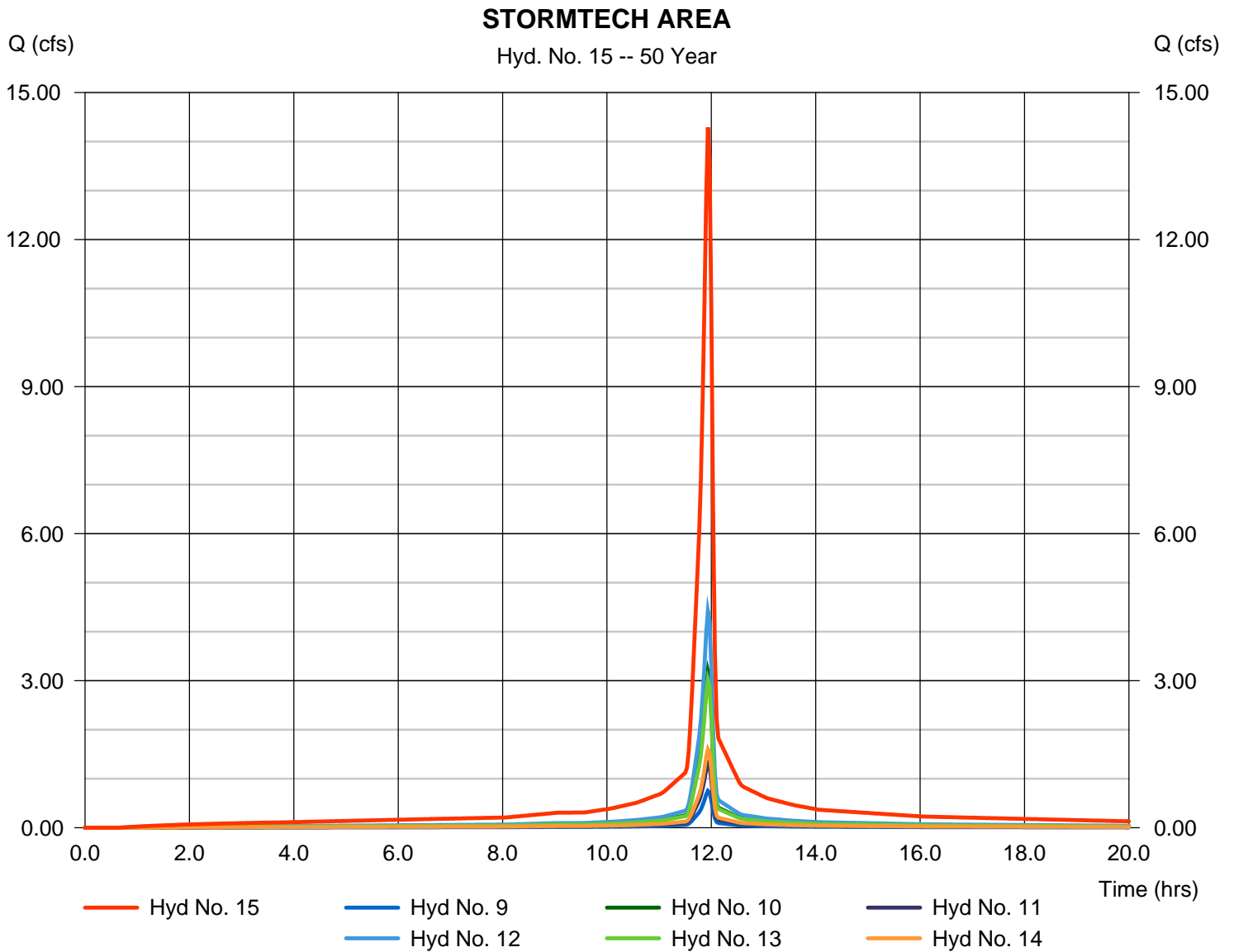
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 15

STORMTECH AREA

Hydrograph type	= Combine	Peak discharge	= 14.29 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.791 acft
Inflow hyds.	= 9, 10, 11, 12, 13, 14	Contrib. drain. area	= 1.520 ac



Hydrograph Report

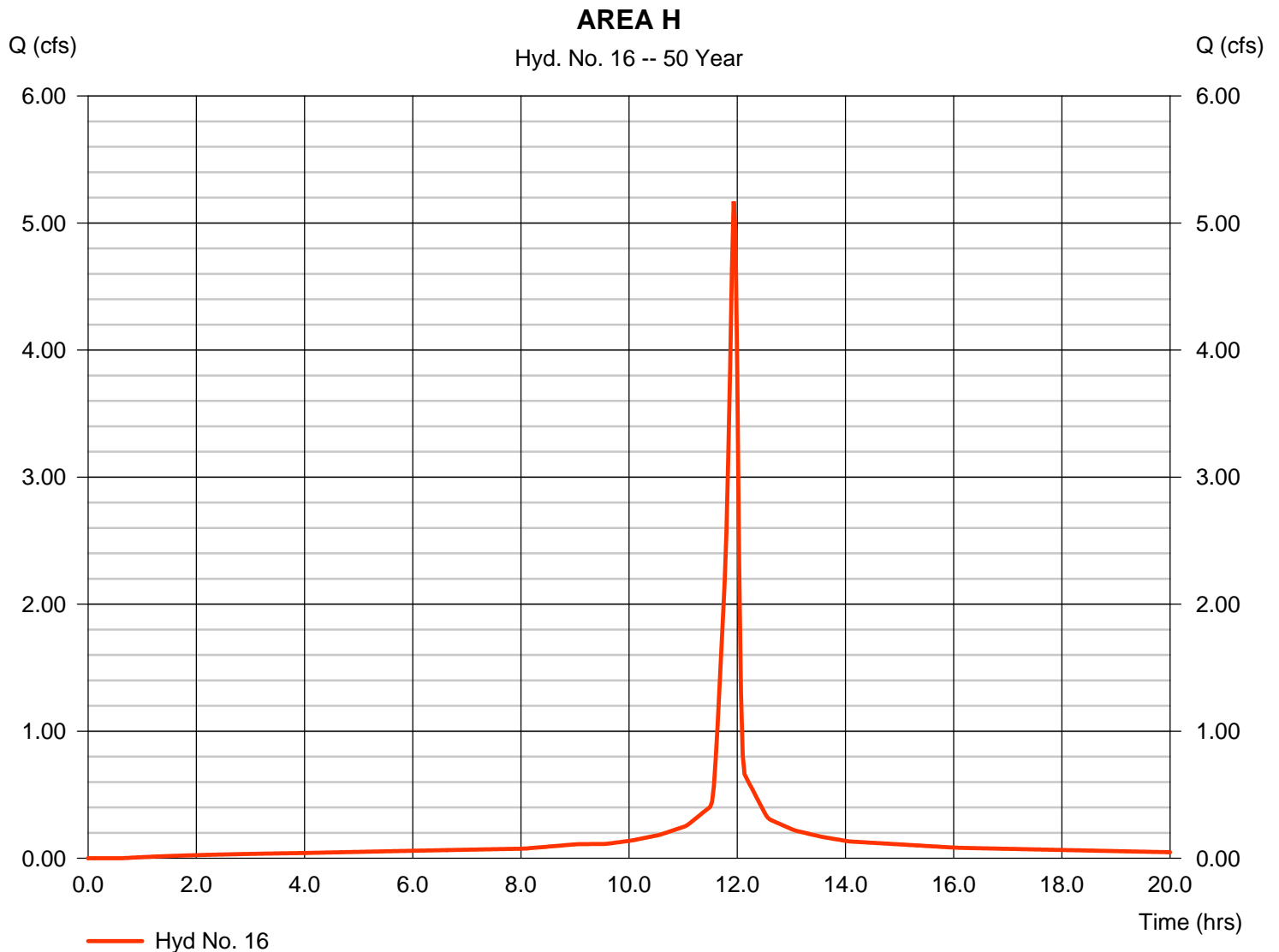
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 16

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 5.170 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.286 acft
Drainage area	= 0.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

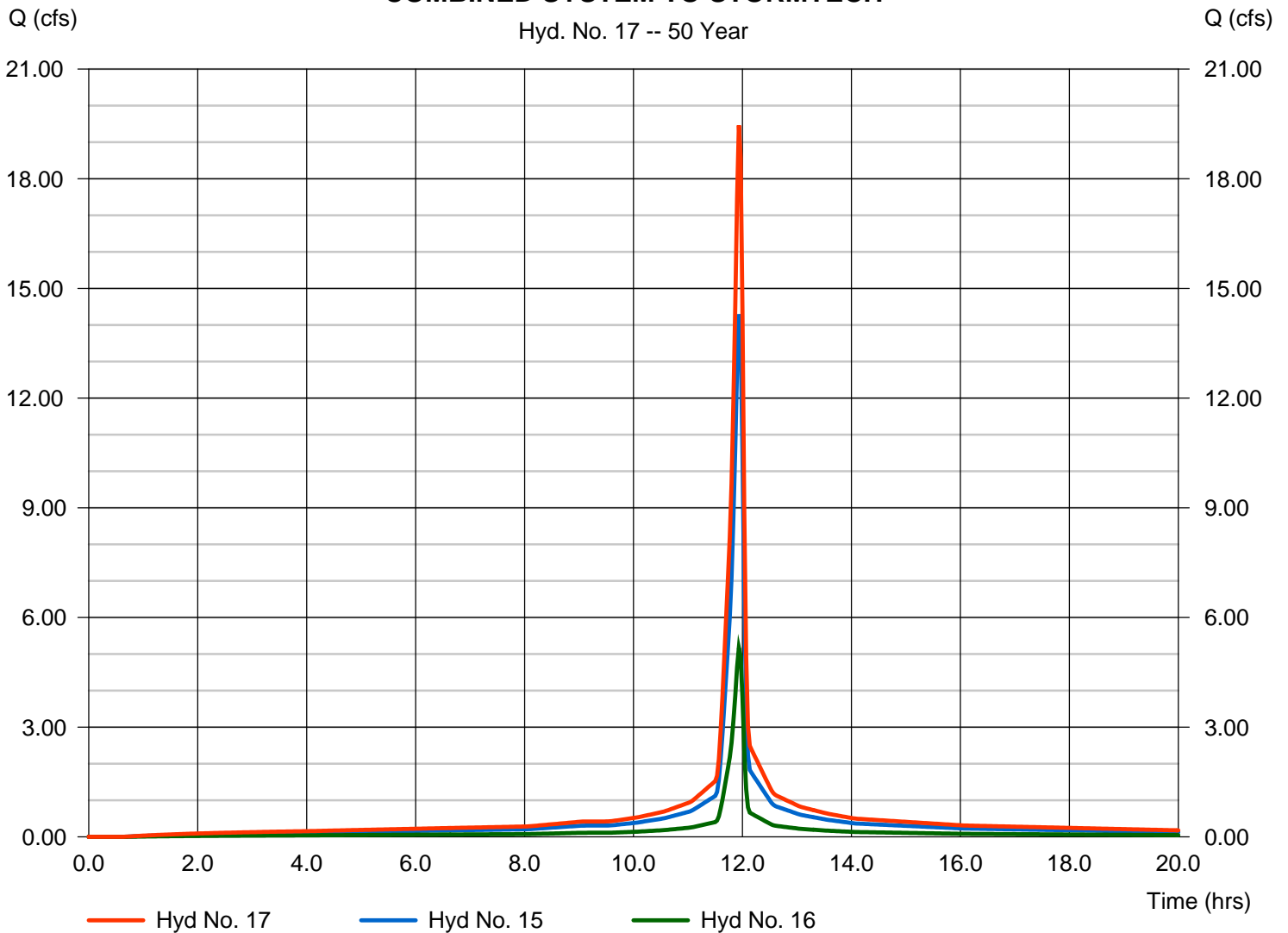
Hyd. No. 17

COMBINED SYSTEM TO STORMTECH

Hydrograph type	= Combine	Peak discharge	= 19.46 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 1.077 acft
Inflow hyds.	= 15, 16	Contrib. drain. area	= 0.550 ac

COMBINED SYSTEM TO STORMTECH

Hyd. No. 17 -- 50 Year



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

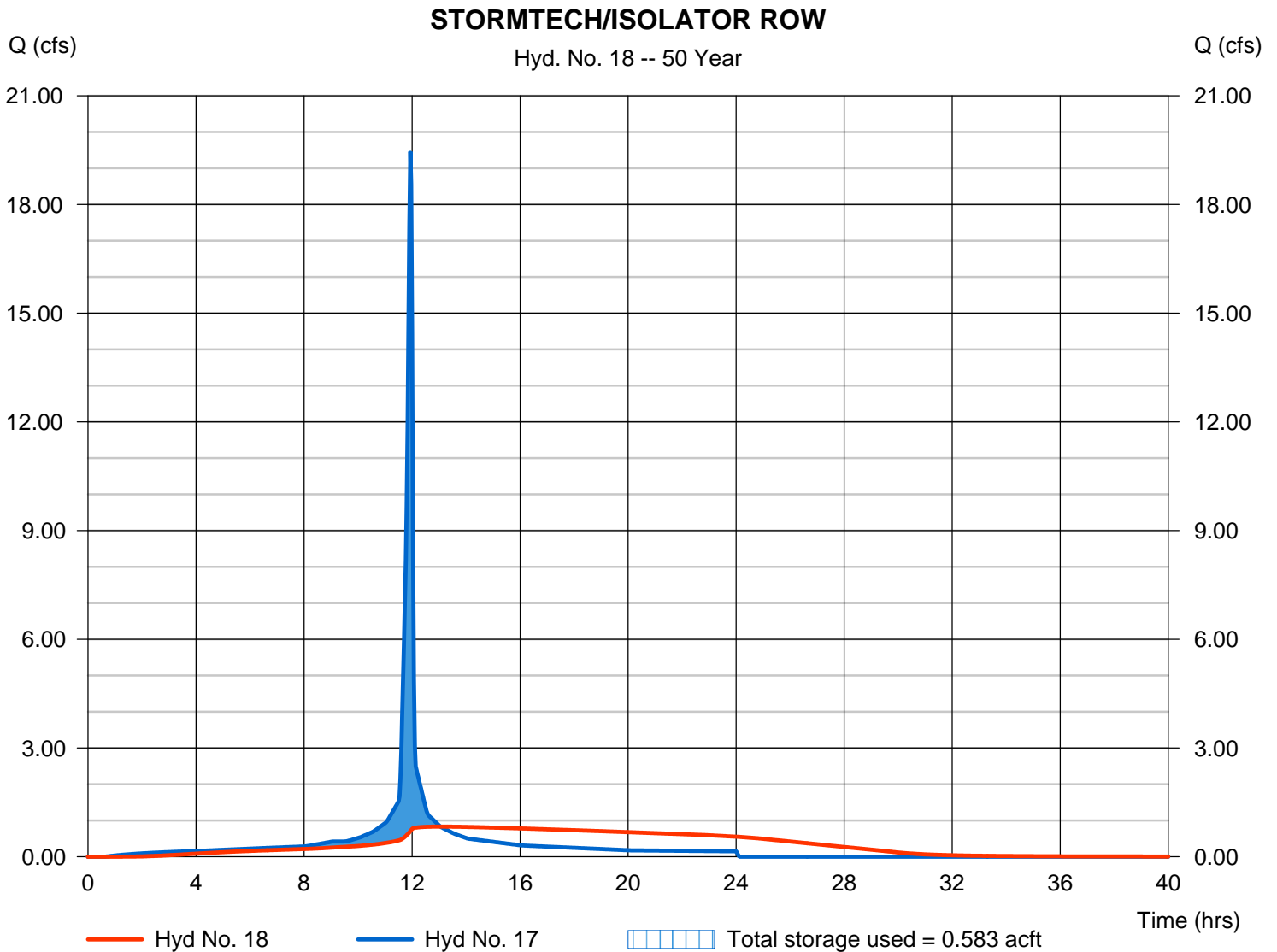
Friday, 00 6, 2012

Hyd. No. 18

STORMTECH/ISOLATOR ROW

Hydrograph type	= Reservoir	Peak discharge	= 0.830 cfs
Storm frequency	= 50 yrs	Time to peak	= 13.07 hrs
Time interval	= 2 min	Hyd. volume	= 1.077 acft
Inflow hyd. No.	= 17 - COMBINED SYSTEM TO STORMTECH	Storm Elevation	= 1344.07 ft
Reservoir name	= STORMTECH 3500	Max. Storage	= 0.583 acft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description	
1	SCS Runoff	23.31	2	732	2.326	-----	-----	-----	AREA 1	
2	SCS Runoff	2.099	2	728	0.178	-----	-----	-----	AREA 2	
3	SCS Runoff	1.746	2	724	0.127	-----	-----	-----	AREA 3	
4	SCS Runoff	5.529	2	716	0.307	-----	-----	-----	AREA 4	
5	SCS Runoff	7.143	2	716	0.346	-----	-----	-----	AREA 5	
6	SCS Runoff	3.572	2	716	0.173	-----	-----	-----	AREA 6	
7	SCS Runoff	2.570	2	734	0.269	-----	-----	-----	AREA 7	
8	SCS Runoff	1.043	2	744	0.234	-----	-----	-----	AREA A	
9	SCS Runoff	0.851	2	716	0.047	-----	-----	-----	AREA B	
10	SCS Runoff	3.615	2	716	0.201	-----	-----	-----	AREA D	
11	SCS Runoff	1.489	2	716	0.083	-----	-----	-----	AREA C	
12	SCS Runoff	4.998	2	716	0.278	-----	-----	-----	AREA E	
13	SCS Runoff	3.403	2	716	0.189	-----	-----	-----	AREA F	
14	SCS Runoff	1.808	2	716	0.100	-----	-----	-----	AREA G	
15	Combine	16.16	2	716	0.898	9, 10, 11, 12, 13, 14	-----	-----	STORMTECH AREA	
16	SCS Runoff	5.848	2	716	0.325	-----	-----	-----	AREA H	
17	Combine	22.01	2	716	1.223	15, 16	-----	-----	COMBINED SYSTEM TO STORMTE	
18	Reservoir	0.888	2	790	1.222	17	1344.63	0.670	STORMTECH/ISOLATOR ROW	
13TH AND MAIZE 3.16.12.gpw					Return Period: 100 Year			Friday, 00 6, 2012		

Hydrograph Report

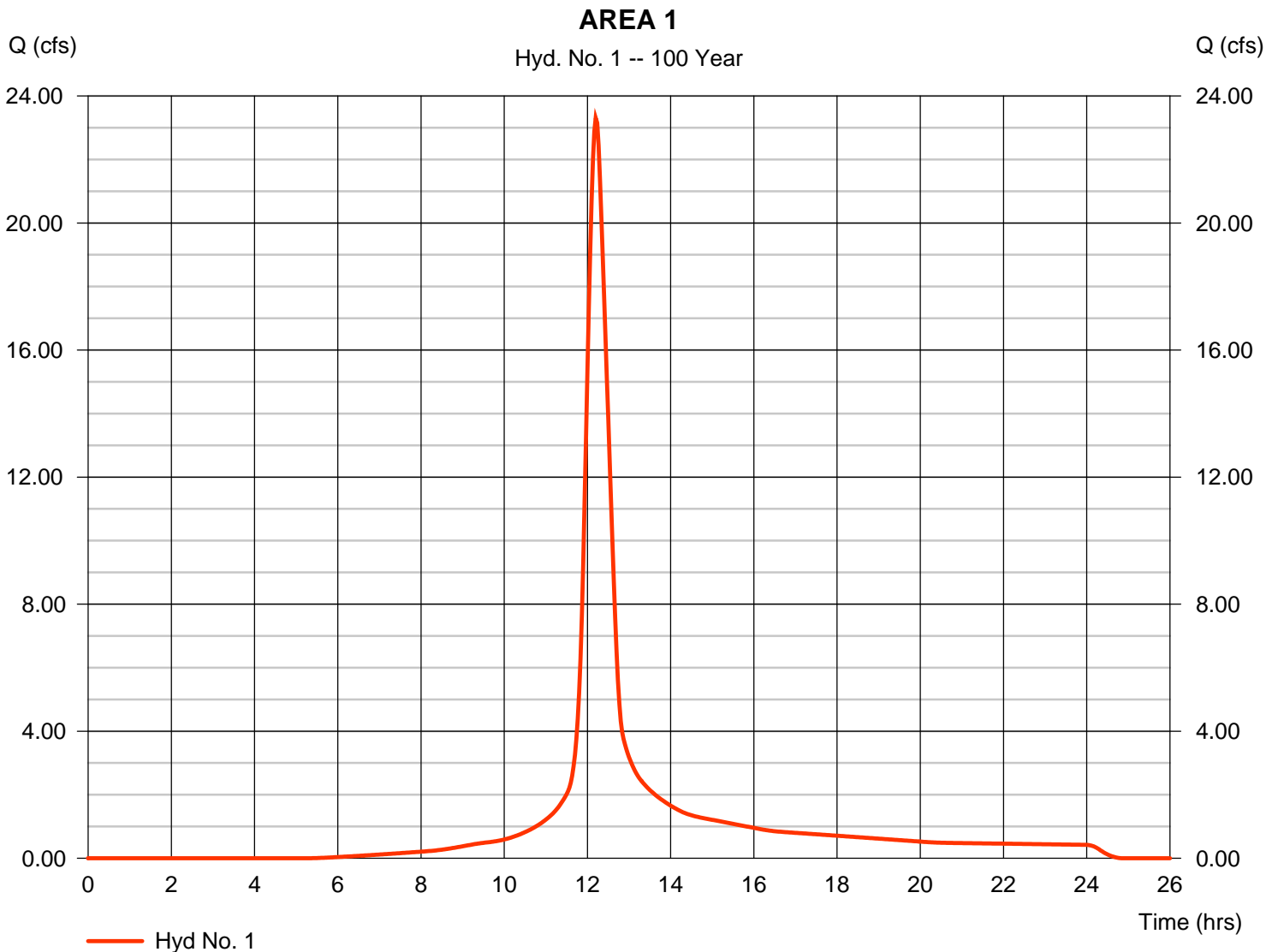
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 1

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 23.31 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 2.326 acft
Drainage area	= 5.070 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 32.10 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

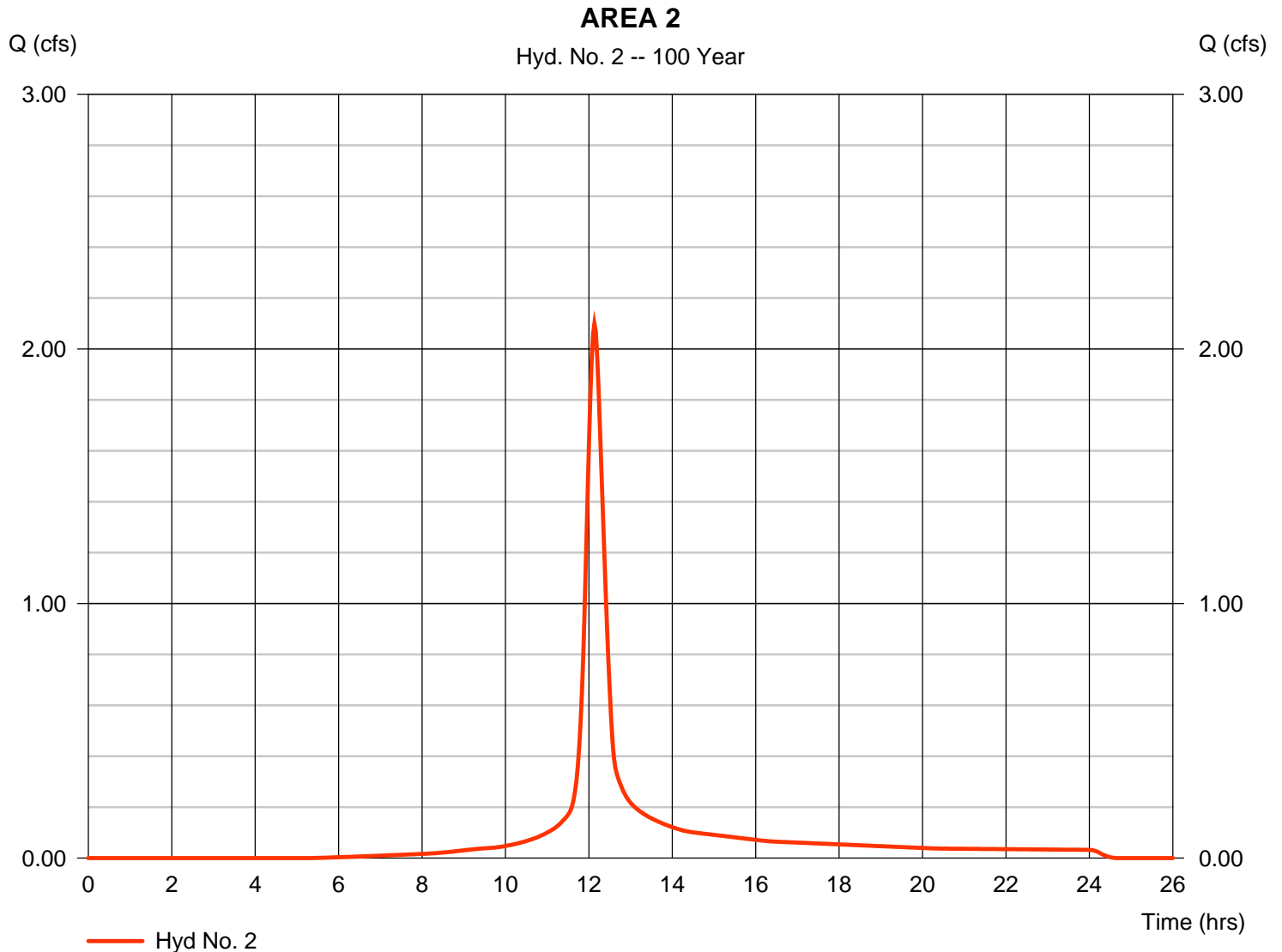
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 2

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 2.099 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 0.178 acft
Drainage area	= 0.400 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 25.30 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

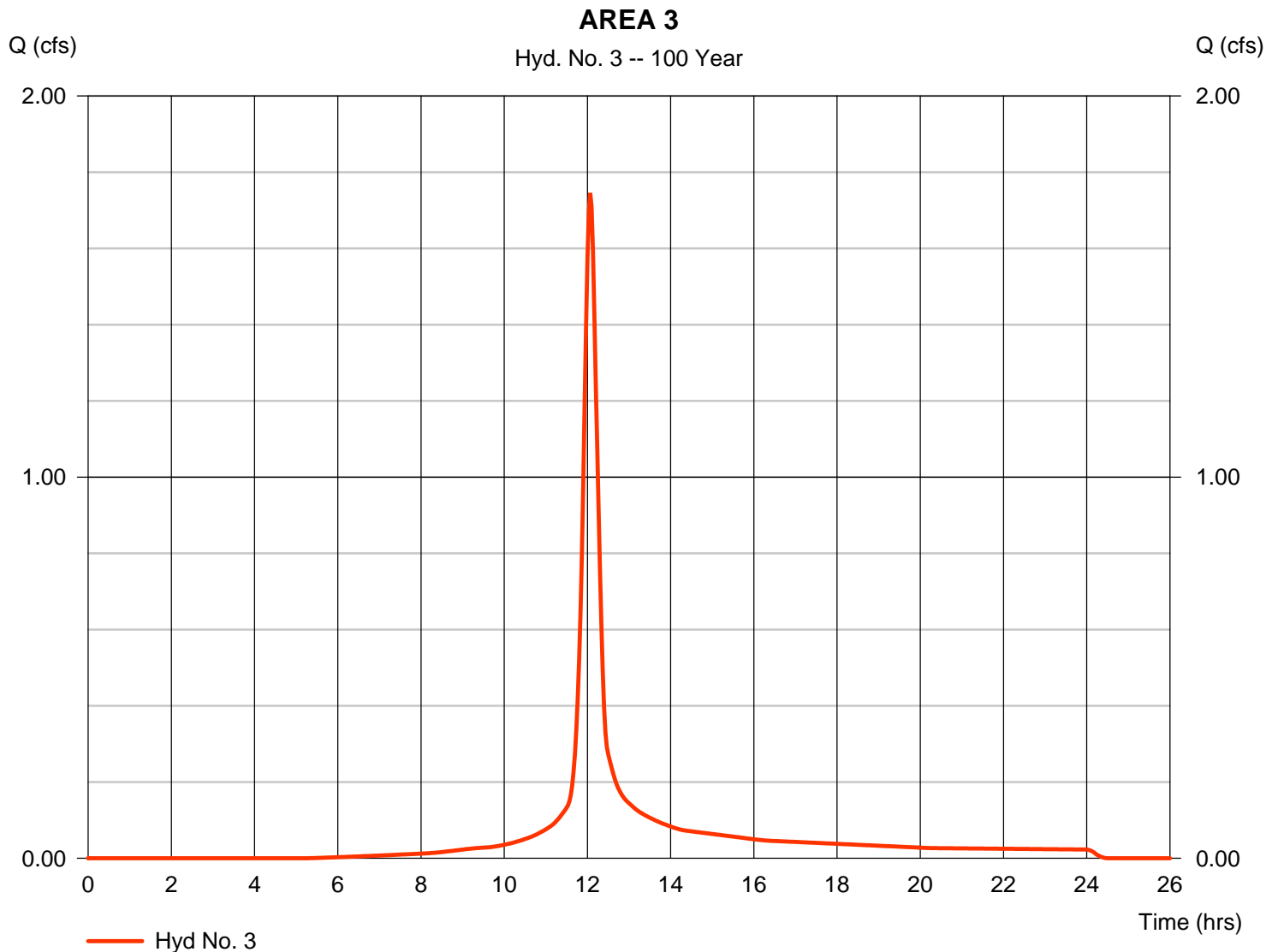
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 3

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 1.746 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 0.127 acft
Drainage area	= 0.280 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.40 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

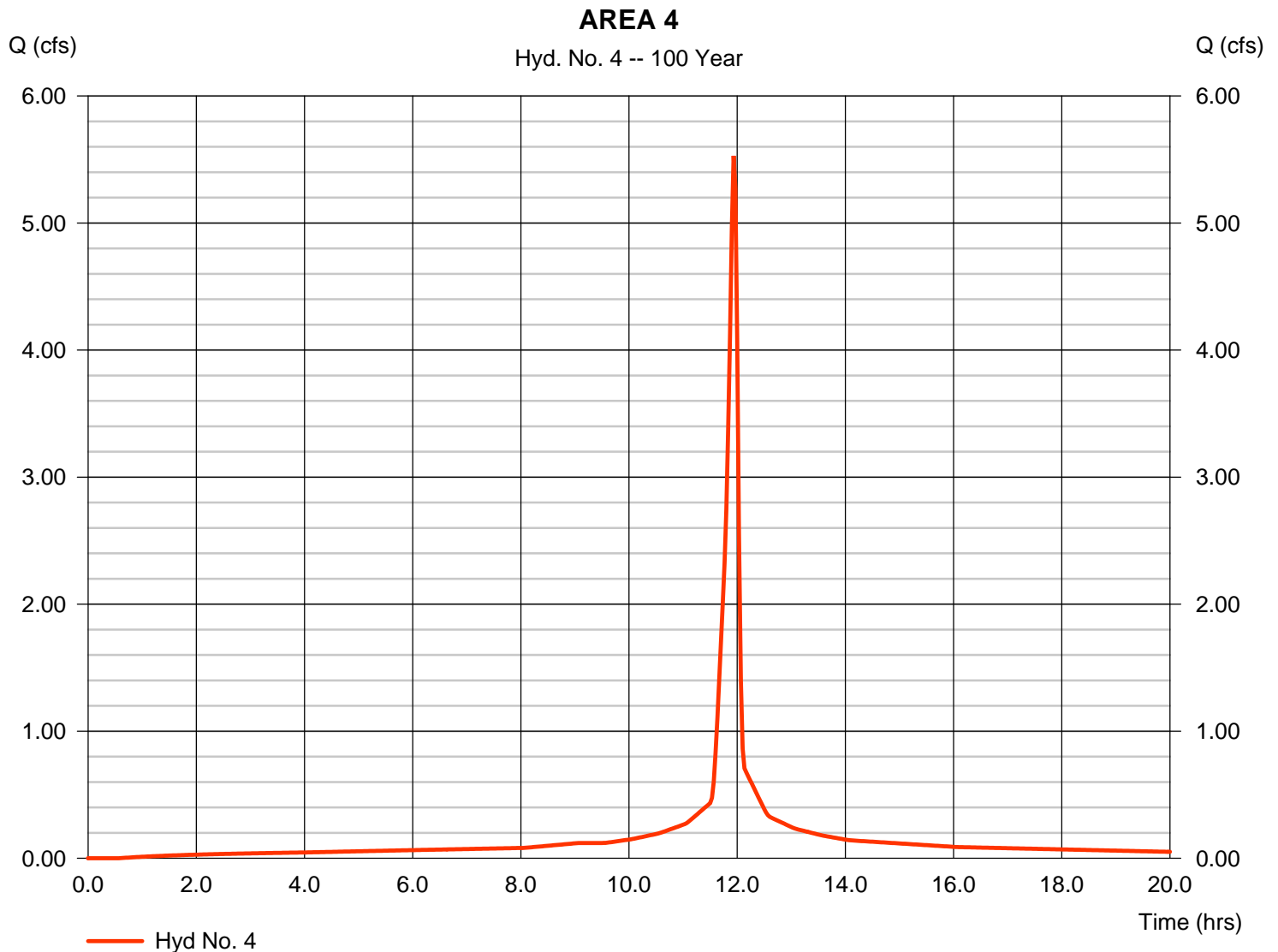
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 4

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 5.529 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.307 acft
Drainage area	= 0.520 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

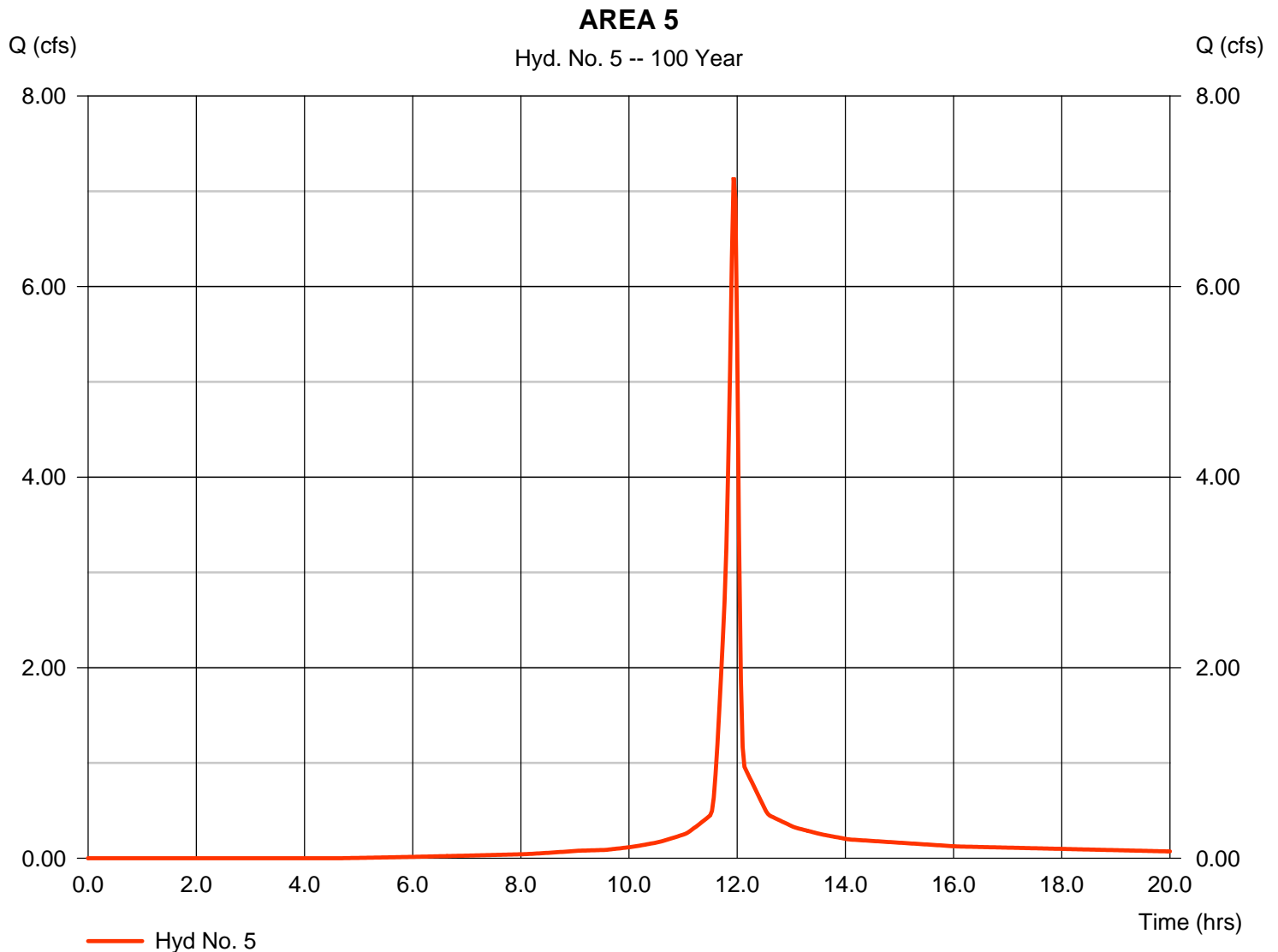
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 5

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 7.143 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.346 acft
Drainage area	= 0.780 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.90 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

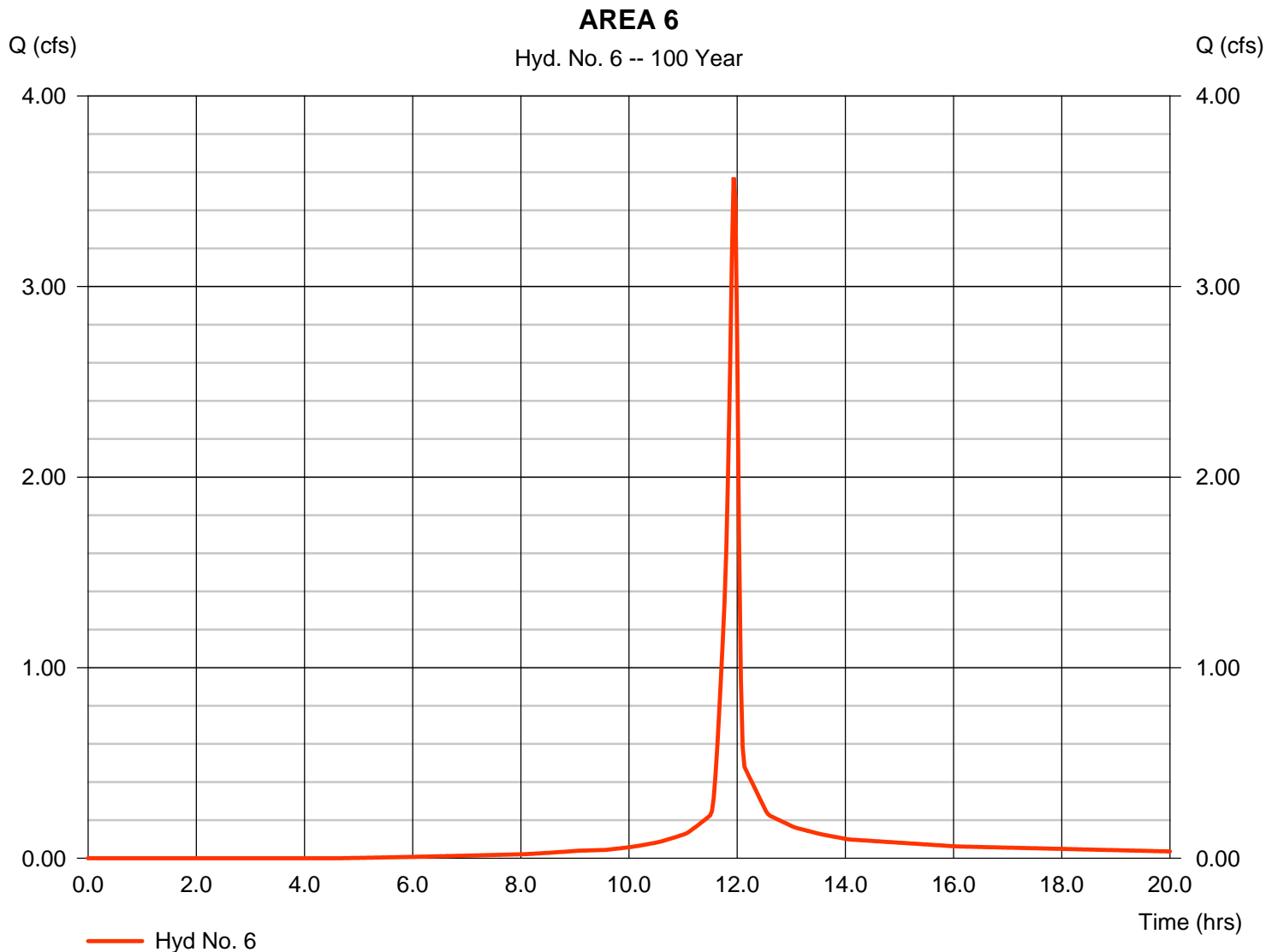
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 6

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 3.572 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.173 acft
Drainage area	= 0.390 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

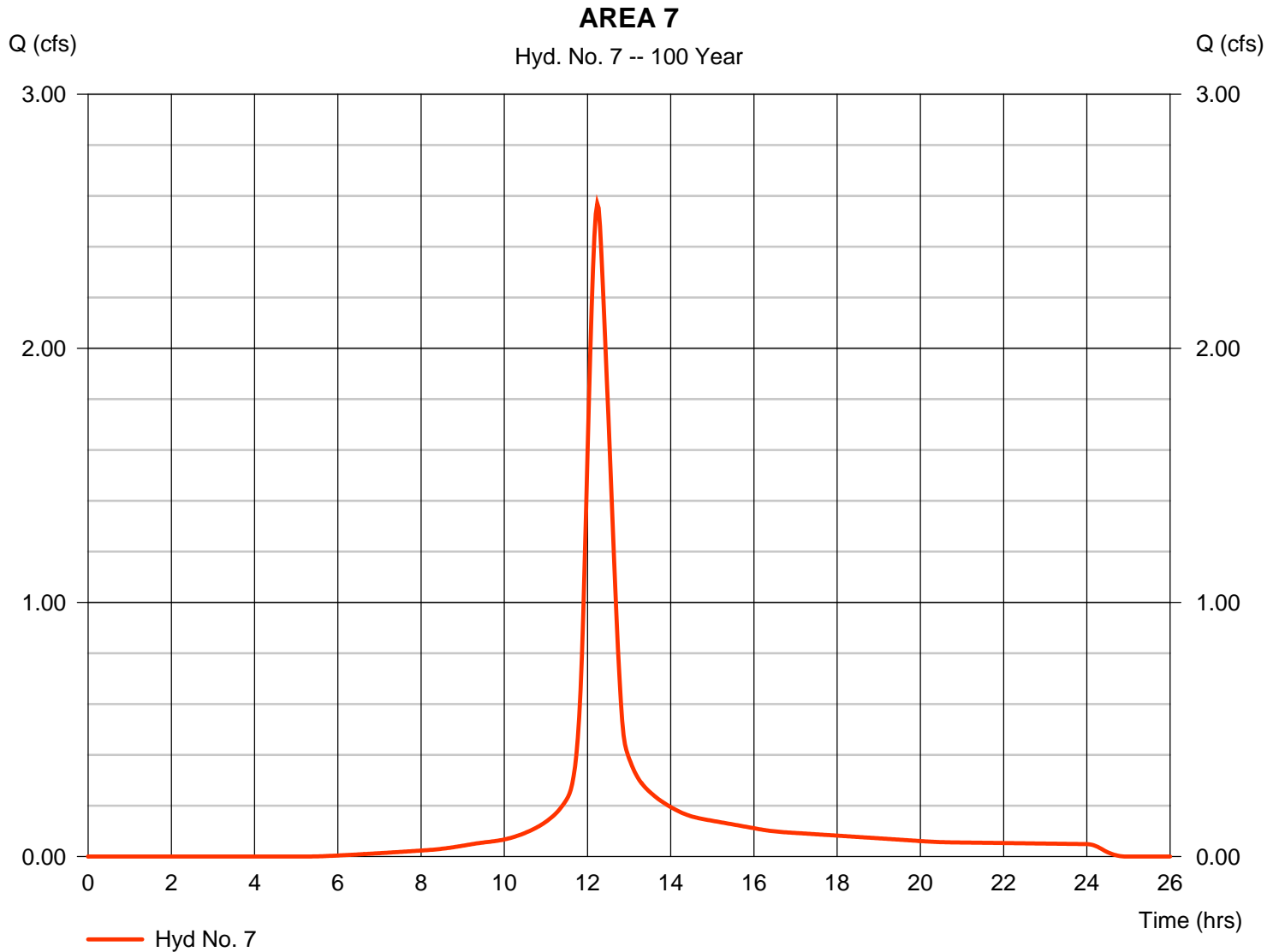
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 7

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 2.570 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.23 hrs
Time interval	= 2 min	Hyd. volume	= 0.269 acft
Drainage area	= 0.600 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 35.70 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

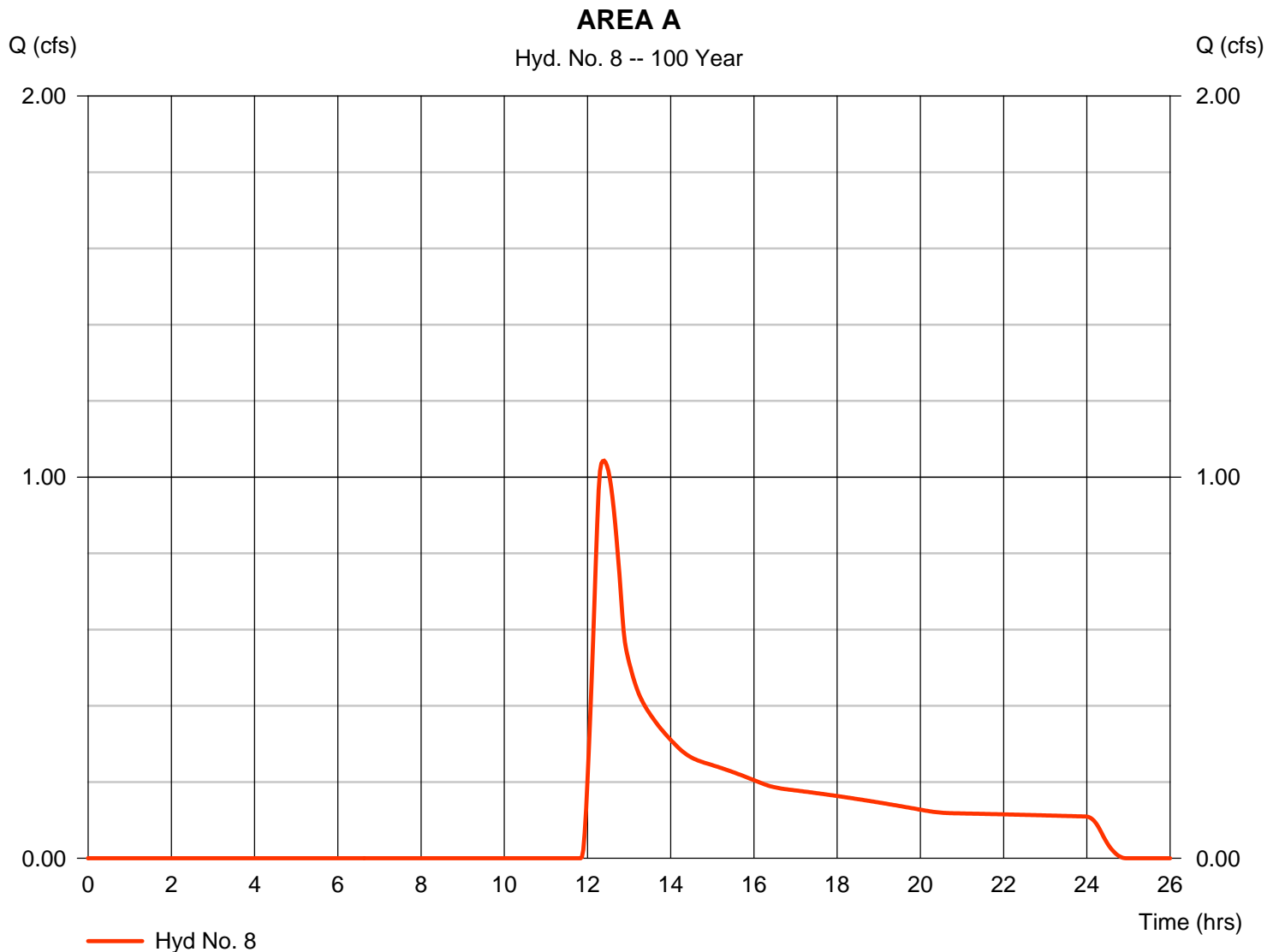
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 8

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 1.043 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.40 hrs
Time interval	= 2 min	Hyd. volume	= 0.234 acft
Drainage area	= 3.850 ac	Curve number	= 35
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 34.80 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

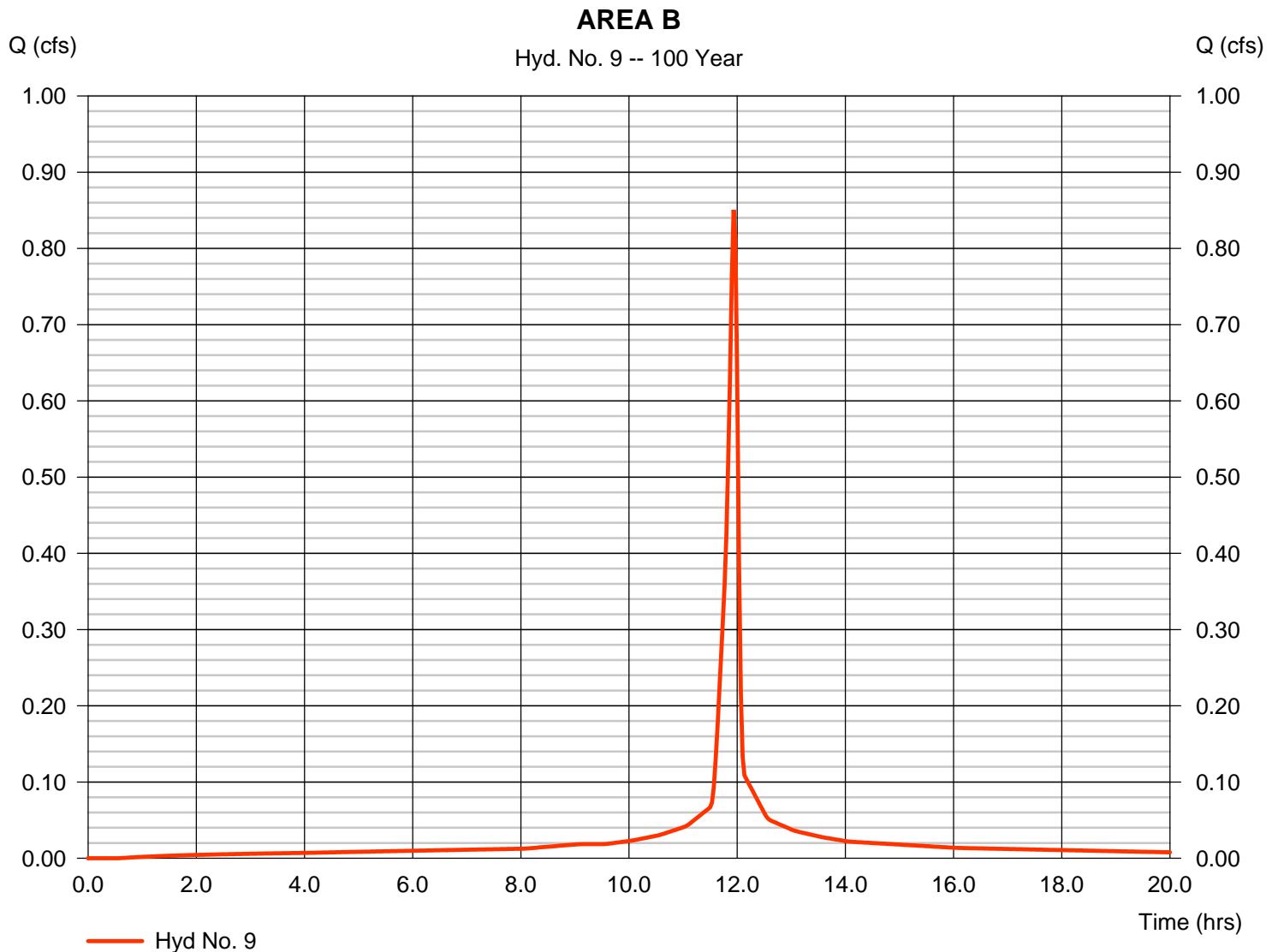
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 9

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.851 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.047 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 4.00 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

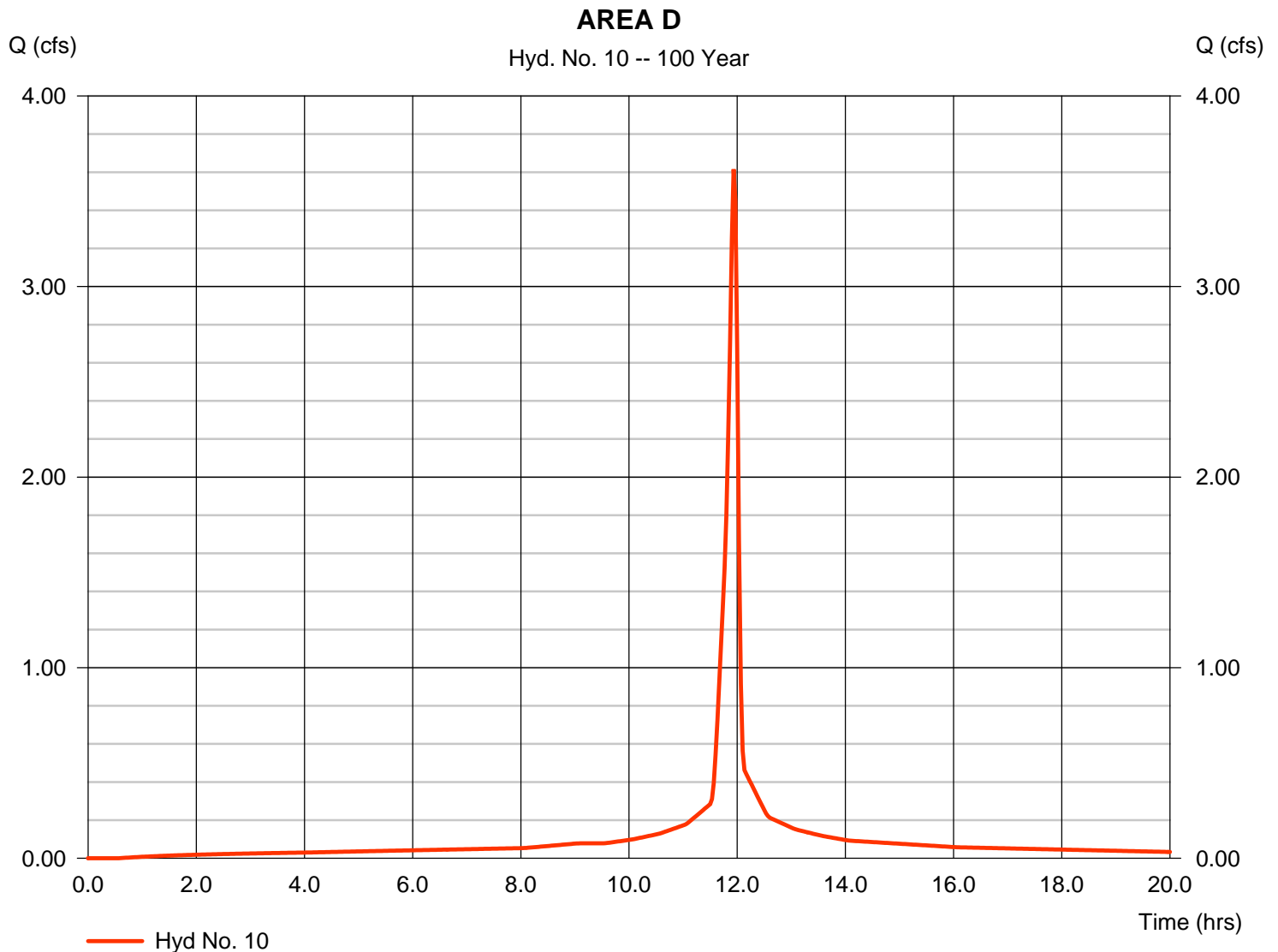
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 10

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 3.615 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.201 acft
Drainage area	= 0.340 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.20 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

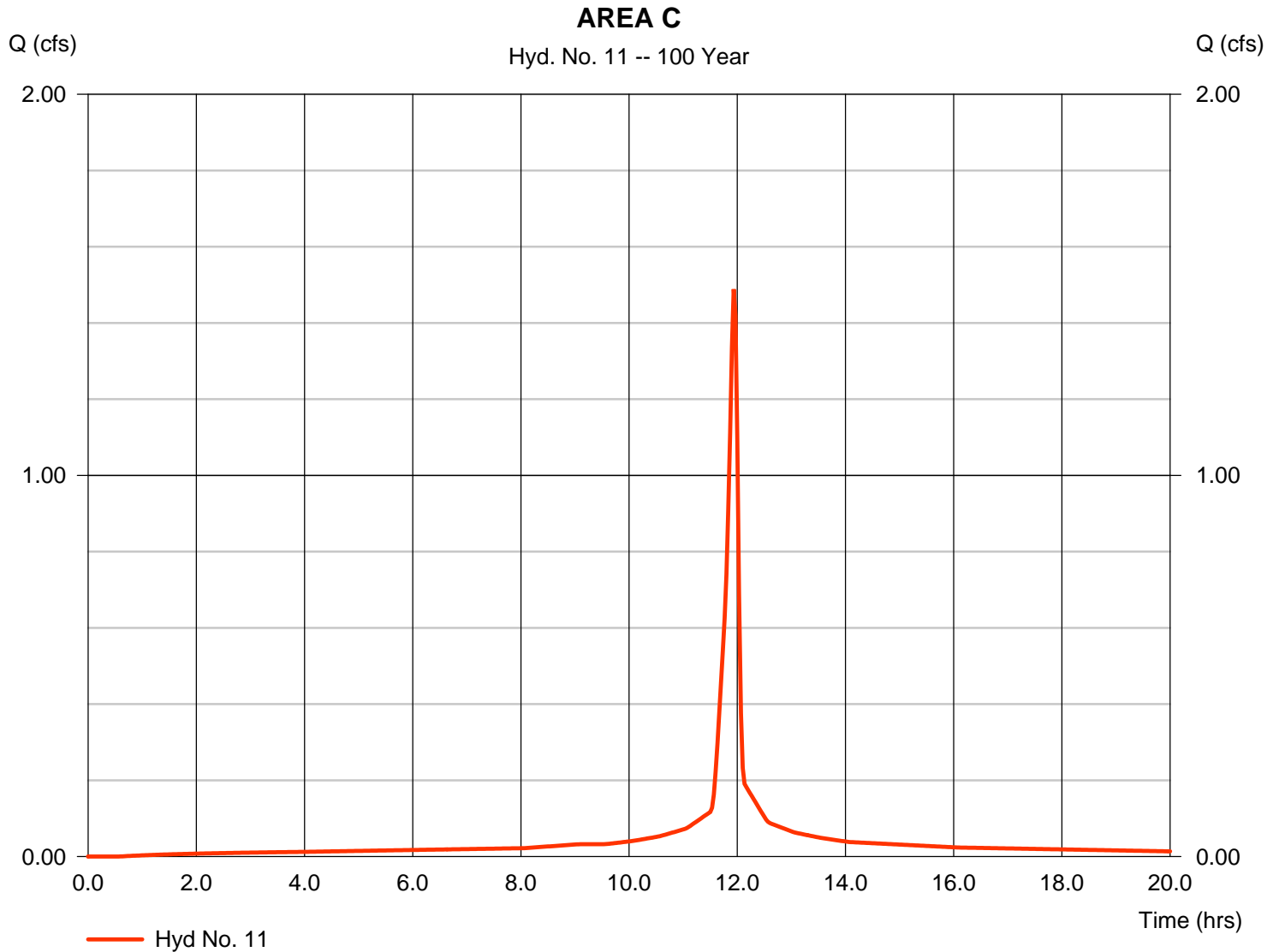
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 11

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 1.489 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.083 acft
Drainage area	= 0.140 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

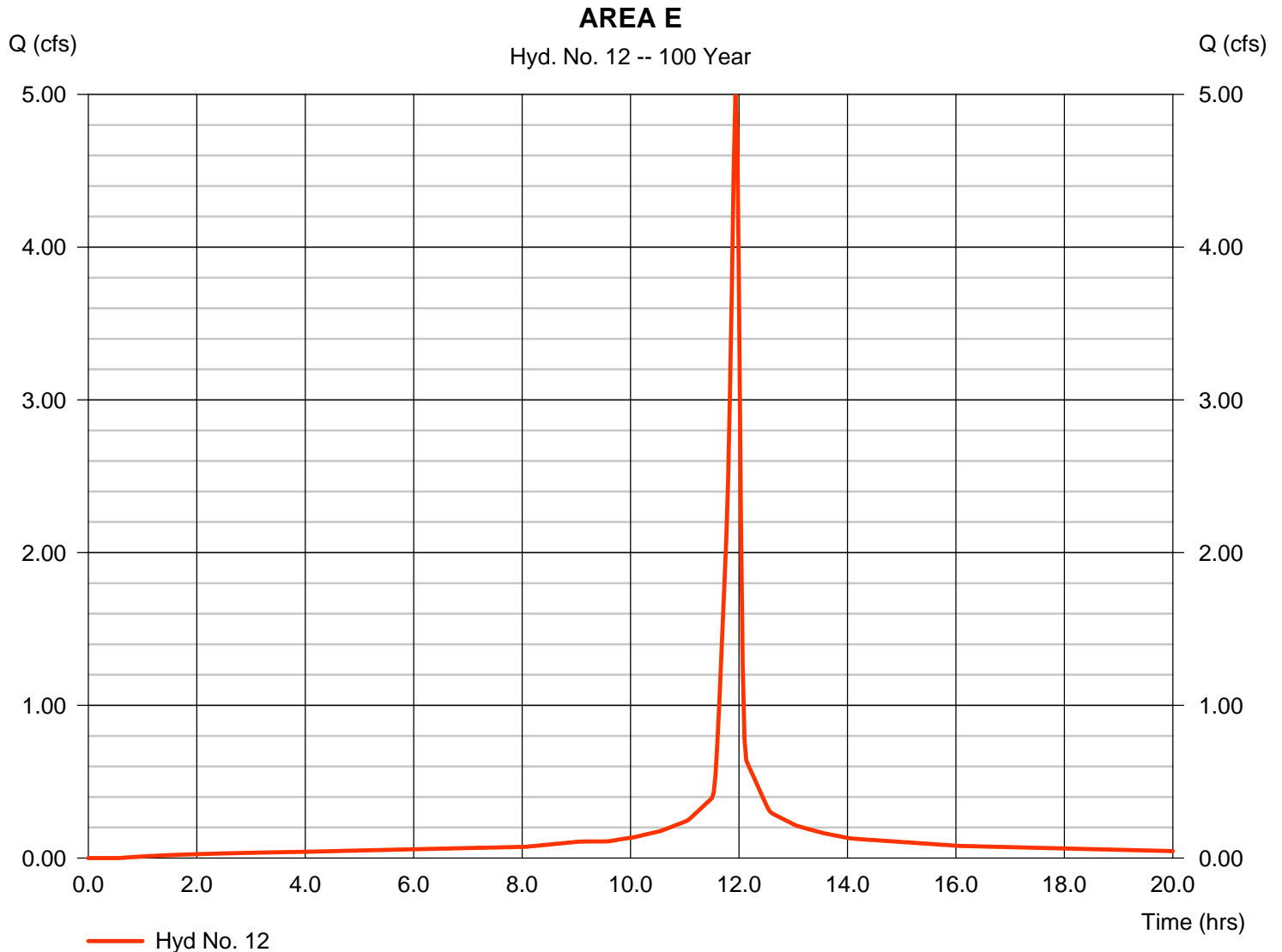
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 12

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 4.998 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.278 acft
Drainage area	= 0.470 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

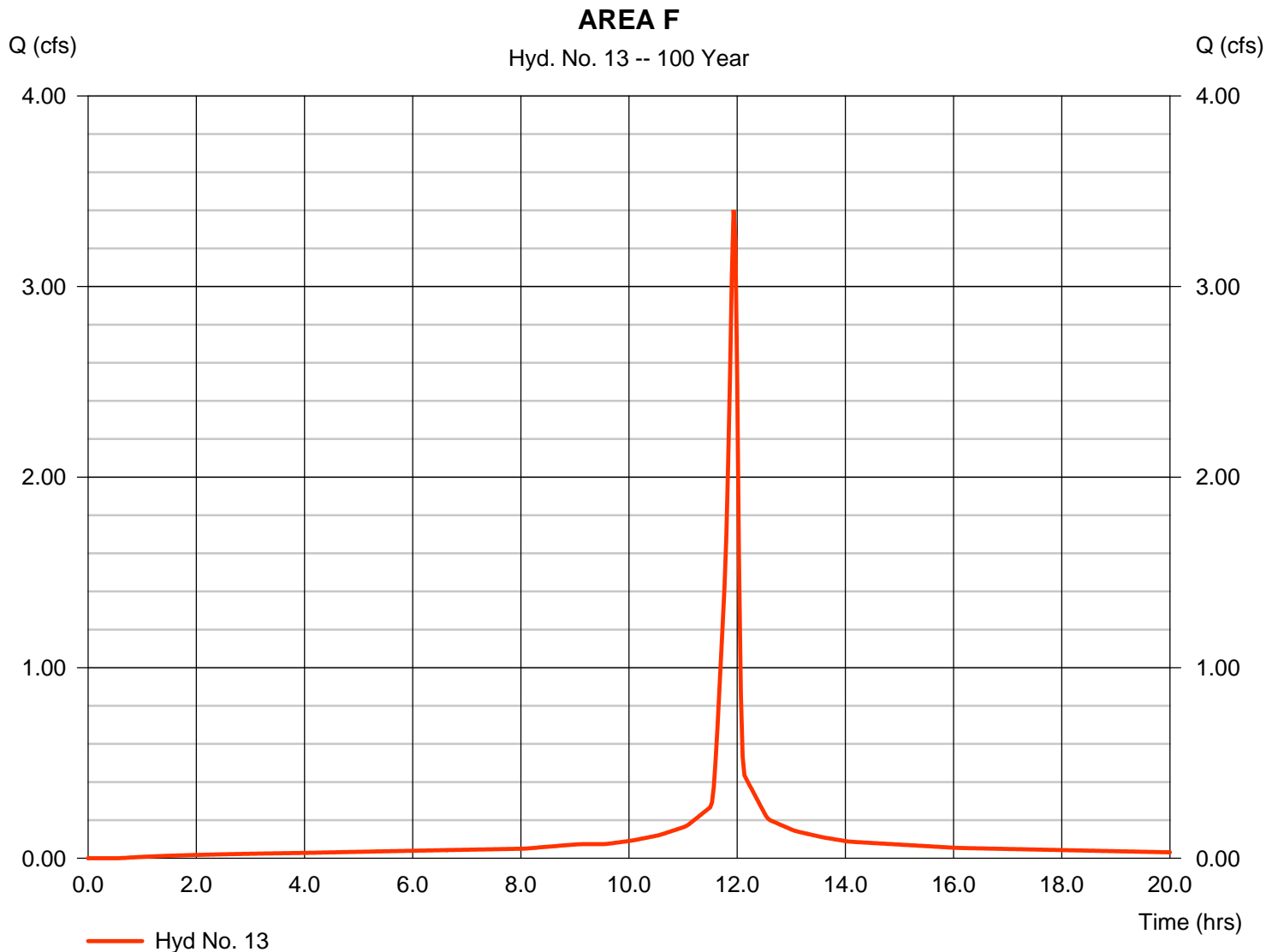
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 13

AREA F

Hydrograph type	= SCS Runoff	Peak discharge	= 3.403 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.189 acft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

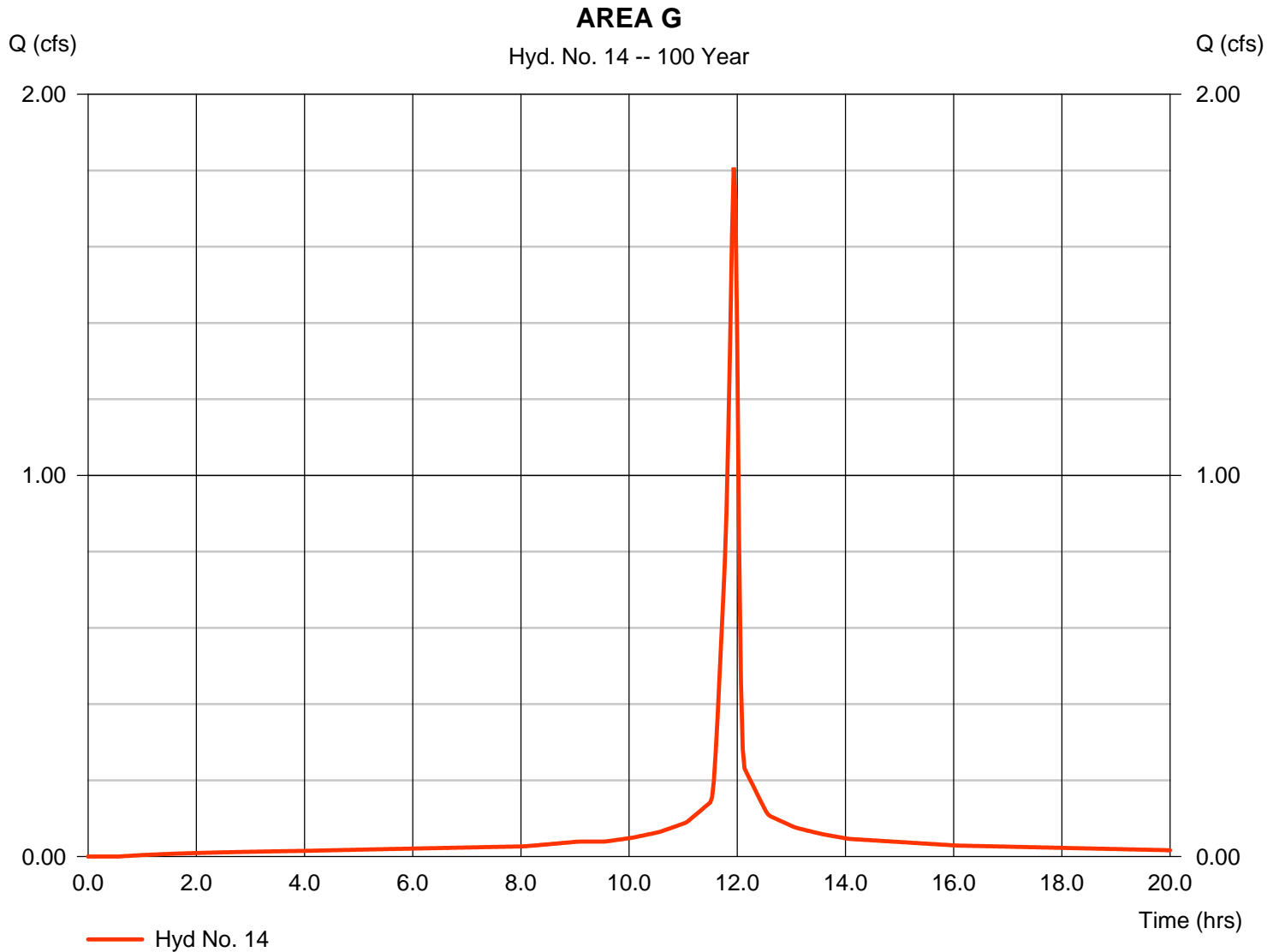
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 14

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 1.808 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.100 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.50 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

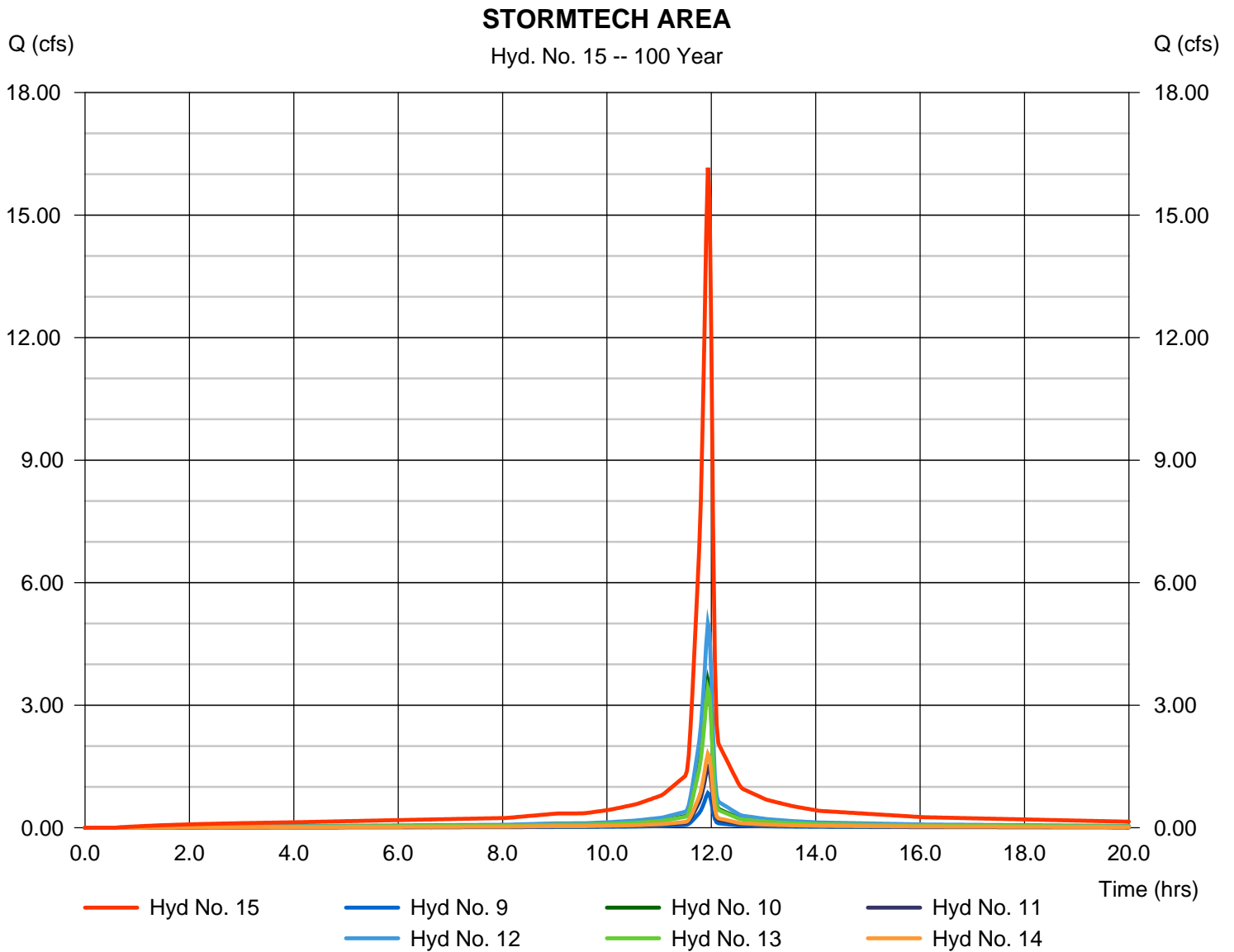
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 15

STORMTECH AREA

Hydrograph type	= Combine	Peak discharge	= 16.16 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.898 acft
Inflow hyds.	= 9, 10, 11, 12, 13, 14	Contrib. drain. area	= 1.520 ac



Hydrograph Report

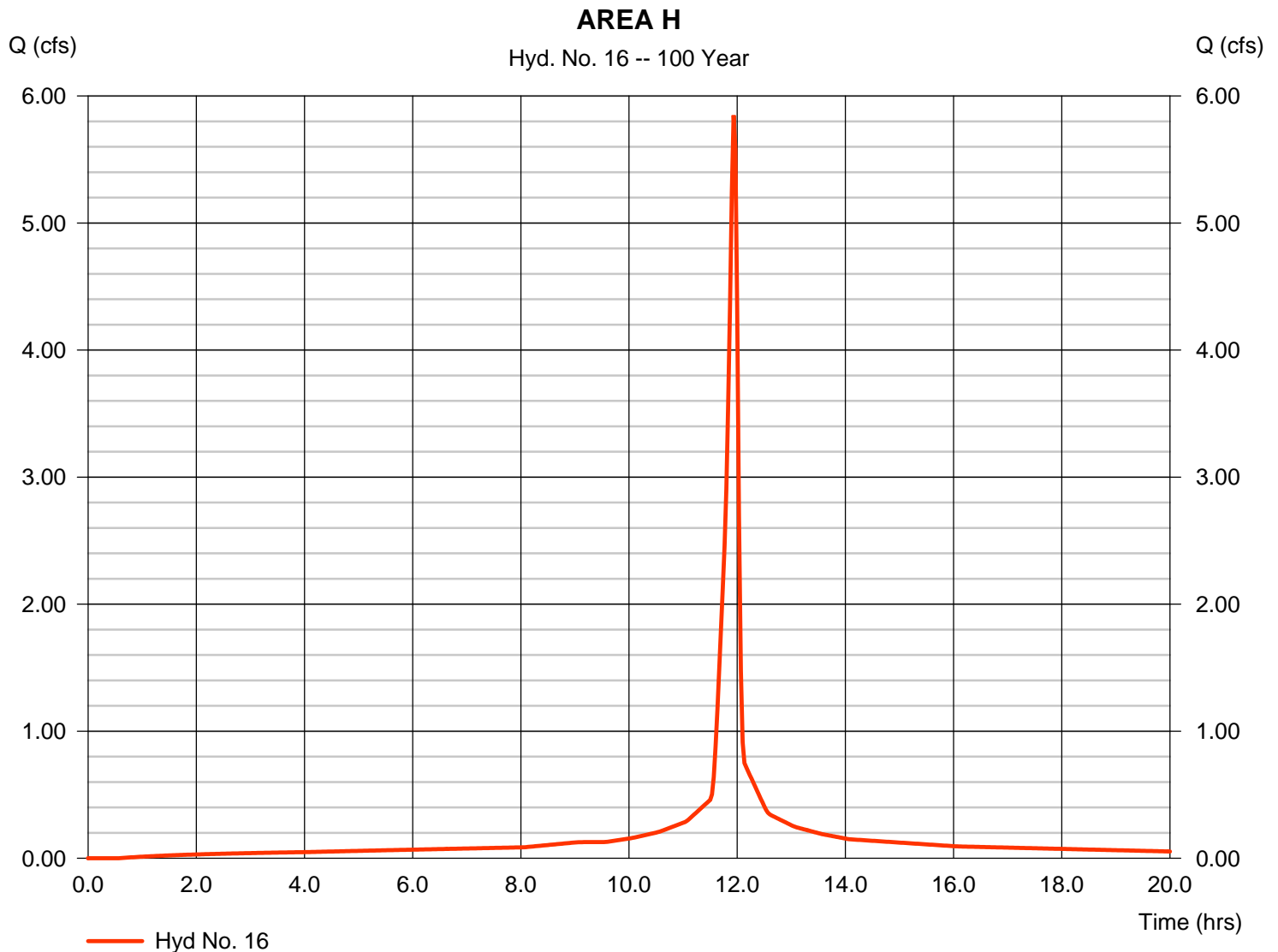
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

Hyd. No. 16

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 5.848 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 0.325 acft
Drainage area	= 0.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 3.10 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

Friday, 00 6, 2012

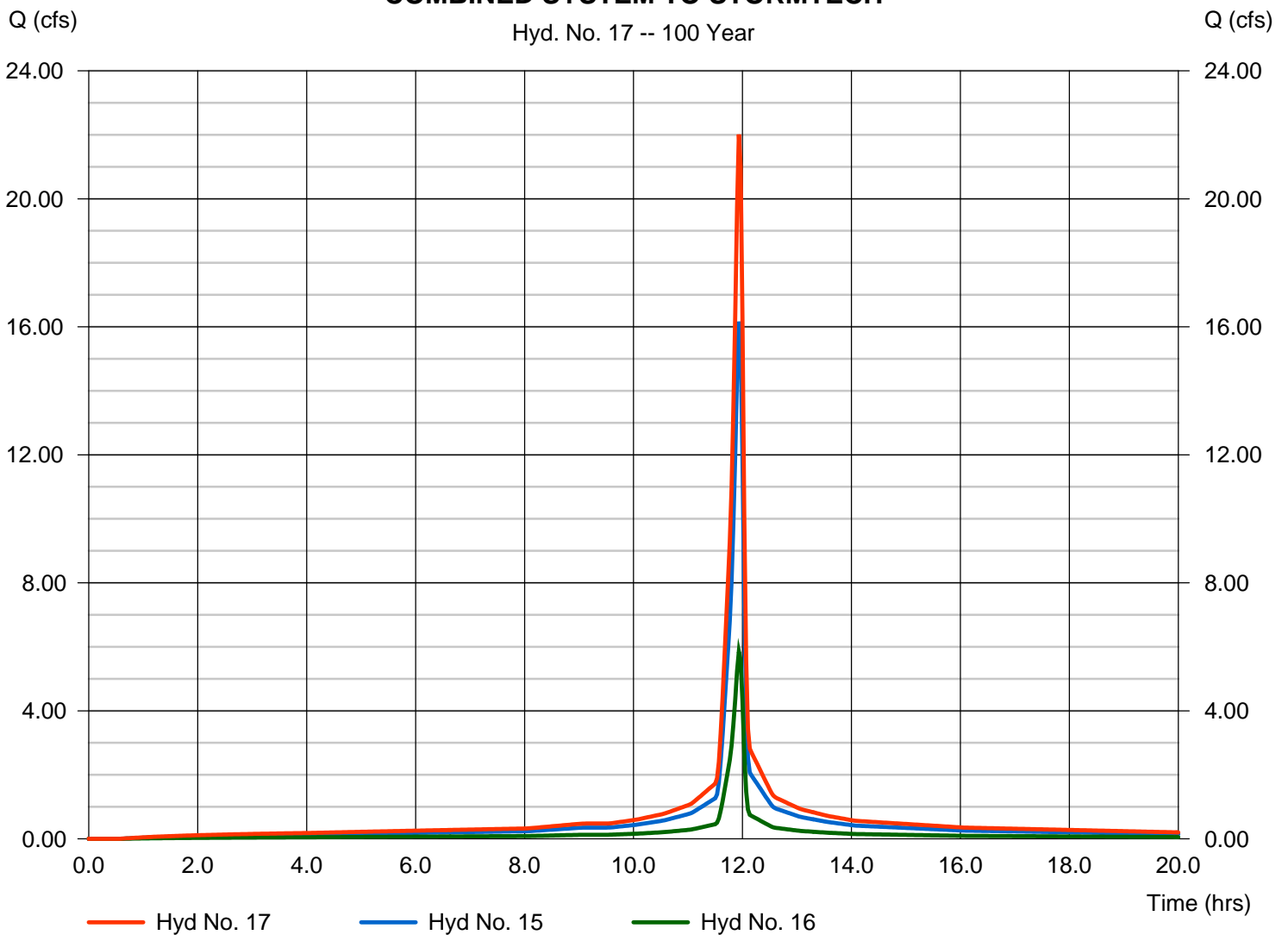
Hyd. No. 17

COMBINED SYSTEM TO STORMTECH

Hydrograph type	= Combine	Peak discharge	= 22.01 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 1.223 acft
Inflow hyds.	= 15, 16	Contrib. drain. area	= 0.550 ac

COMBINED SYSTEM TO STORMTECH

Hyd. No. 17 -- 100 Year



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

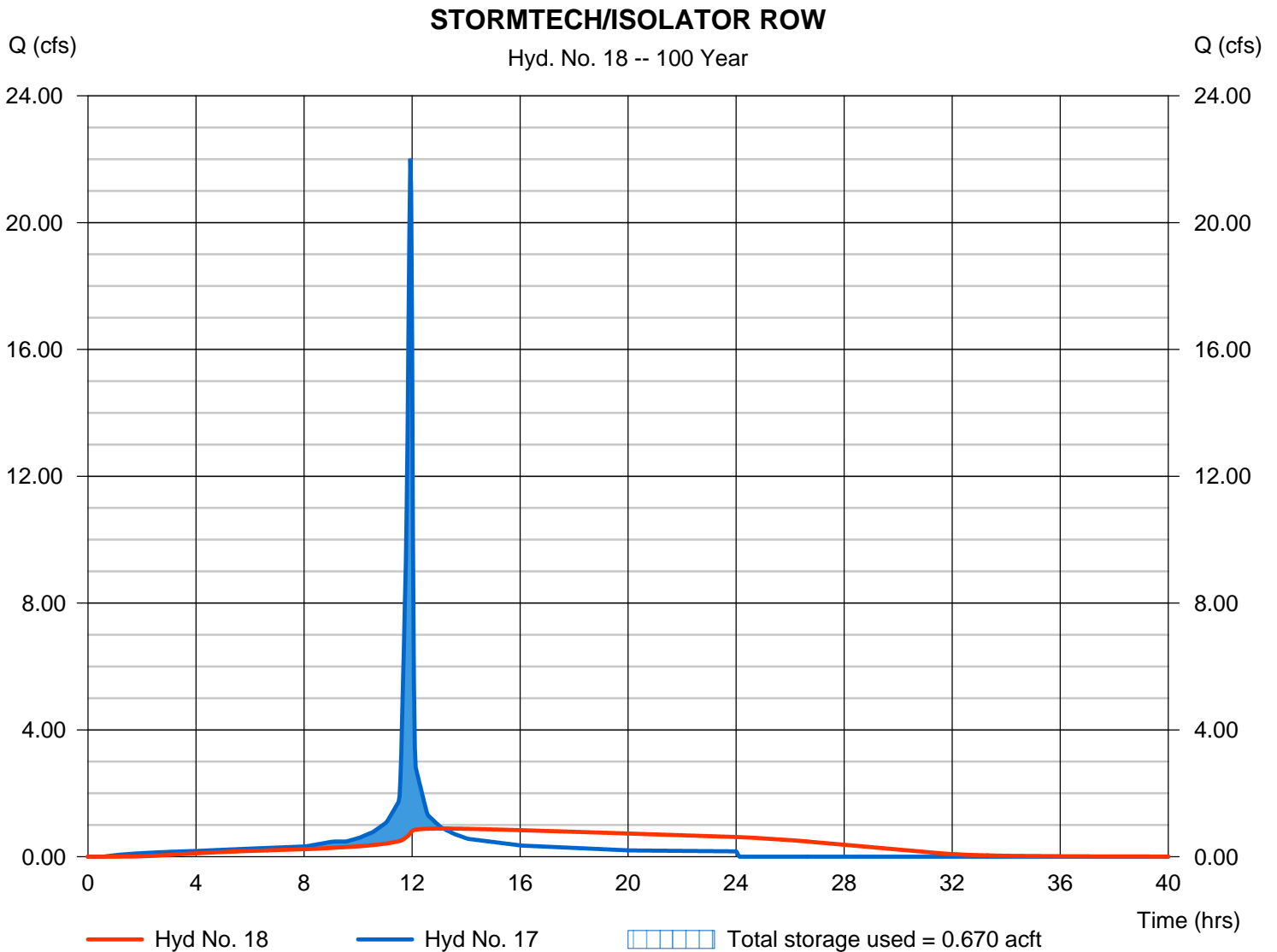
Friday, 00 6, 2012

Hyd. No. 18

STORMTECH/ISOLATOR ROW

Hydrograph type	= Reservoir	Peak discharge	= 0.888 cfs
Storm frequency	= 100 yrs	Time to peak	= 13.17 hrs
Time interval	= 2 min	Hyd. volume	= 1.222 acft
Inflow hyd. No.	= 17 - COMBINED SYSTEM TO STORMTECH	Storm Elevation	= 1344.63 ft
Reservoir name	= STORMTECH 3500	Max. Storage	= 0.670 acft

Storage Indication method used.



Watershed Model Schematic.....	1
Hydrograph Return Period Recap.....	2
1 - Year	
Summary Report.....	3
Hydrograph Reports.....	4
Hydrograph No. 1, SCS Runoff, AREA 1.....	4
Hydrograph No. 2, SCS Runoff, AREA 2.....	5
Hydrograph No. 3, SCS Runoff, AREA 3.....	6
Hydrograph No. 4, SCS Runoff, AREA 4.....	7
Hydrograph No. 5, SCS Runoff, AREA 5.....	8
Hydrograph No. 6, SCS Runoff, AREA 6.....	9
Hydrograph No. 7, SCS Runoff, AREA 7.....	10
Hydrograph No. 8, SCS Runoff, AREA A.....	11
Hydrograph No. 9, SCS Runoff, AREA B.....	12
Hydrograph No. 10, SCS Runoff, AREA D.....	13
Hydrograph No. 11, SCS Runoff, AREA C.....	14
Hydrograph No. 12, SCS Runoff, AREA E.....	15
Hydrograph No. 13, SCS Runoff, AREA F.....	16
Hydrograph No. 14, SCS Runoff, AREA G.....	17
Hydrograph No. 15, Combine, STORMTECH AREA.....	18
Hydrograph No. 16, SCS Runoff, AREA H.....	19
Hydrograph No. 17, Combine, COMBINED SYSTEM TO STORMTECH.....	20
Hydrograph No. 18, Reservoir, STORMTECH/ISOLATOR ROW.....	21
2 - Year	
Summary Report.....	22
Hydrograph Reports.....	23
Hydrograph No. 1, SCS Runoff, AREA 1.....	23
Hydrograph No. 2, SCS Runoff, AREA 2.....	24
Hydrograph No. 3, SCS Runoff, AREA 3.....	25
Hydrograph No. 4, SCS Runoff, AREA 4.....	26
Hydrograph No. 5, SCS Runoff, AREA 5.....	27
Hydrograph No. 6, SCS Runoff, AREA 6.....	28
Hydrograph No. 7, SCS Runoff, AREA 7.....	29
Hydrograph No. 8, SCS Runoff, AREA A.....	30
Hydrograph No. 9, SCS Runoff, AREA B.....	31
Hydrograph No. 10, SCS Runoff, AREA D.....	32
Hydrograph No. 11, SCS Runoff, AREA C.....	33
Hydrograph No. 12, SCS Runoff, AREA E.....	34
Hydrograph No. 13, SCS Runoff, AREA F.....	35
Hydrograph No. 14, SCS Runoff, AREA G.....	36
Hydrograph No. 15, Combine, STORMTECH AREA.....	37
Hydrograph No. 16, SCS Runoff, AREA H.....	38
Hydrograph No. 17, Combine, COMBINED SYSTEM TO STORMTECH.....	39
Hydrograph No. 18, Reservoir, STORMTECH/ISOLATOR ROW.....	40
5 - Year	

Summary Report.....	41
Hydrograph Reports.....	42
Hydrograph No. 1, SCS Runoff, AREA 1.....	42
Hydrograph No. 2, SCS Runoff, AREA 2.....	43
Hydrograph No. 3, SCS Runoff, AREA 3.....	44
Hydrograph No. 4, SCS Runoff, AREA 4.....	45
Hydrograph No. 5, SCS Runoff, AREA 5.....	46
Hydrograph No. 6, SCS Runoff, AREA 6.....	47
Hydrograph No. 7, SCS Runoff, AREA 7.....	48
Hydrograph No. 8, SCS Runoff, AREA A.....	49
Hydrograph No. 9, SCS Runoff, AREA B.....	50
Hydrograph No. 10, SCS Runoff, AREA D.....	51
Hydrograph No. 11, SCS Runoff, AREA C.....	52
Hydrograph No. 12, SCS Runoff, AREA E.....	53
Hydrograph No. 13, SCS Runoff, AREA F.....	54
Hydrograph No. 14, SCS Runoff, AREA G.....	55
Hydrograph No. 15, Combine, STORMTECH AREA.....	56
Hydrograph No. 16, SCS Runoff, AREA H.....	57
Hydrograph No. 17, Combine, COMBINED SYSTEM TO STORMTECH.....	58
Hydrograph No. 18, Reservoir, STORMTECH/ISOLATOR ROW.....	59

10 - Year

Summary Report.....	60
Hydrograph Reports.....	61
Hydrograph No. 1, SCS Runoff, AREA 1.....	61
Hydrograph No. 2, SCS Runoff, AREA 2.....	62
Hydrograph No. 3, SCS Runoff, AREA 3.....	63
Hydrograph No. 4, SCS Runoff, AREA 4.....	64
Hydrograph No. 5, SCS Runoff, AREA 5.....	65
Hydrograph No. 6, SCS Runoff, AREA 6.....	66
Hydrograph No. 7, SCS Runoff, AREA 7.....	67
Hydrograph No. 8, SCS Runoff, AREA A.....	68
Hydrograph No. 9, SCS Runoff, AREA B.....	69
Hydrograph No. 10, SCS Runoff, AREA D.....	70
Hydrograph No. 11, SCS Runoff, AREA C.....	71
Hydrograph No. 12, SCS Runoff, AREA E.....	72
Hydrograph No. 13, SCS Runoff, AREA F.....	73
Hydrograph No. 14, SCS Runoff, AREA G.....	74
Hydrograph No. 15, Combine, STORMTECH AREA.....	75
Hydrograph No. 16, SCS Runoff, AREA H.....	76
Hydrograph No. 17, Combine, COMBINED SYSTEM TO STORMTECH.....	77
Hydrograph No. 18, Reservoir, STORMTECH/ISOLATOR ROW.....	78

25 - Year

Summary Report.....	79
Hydrograph Reports.....	80
Hydrograph No. 1, SCS Runoff, AREA 1.....	80
Hydrograph No. 2, SCS Runoff, AREA 2.....	81
Hydrograph No. 3, SCS Runoff, AREA 3.....	82
Hydrograph No. 4, SCS Runoff, AREA 4.....	83

Hydrograph No. 5, SCS Runoff, AREA 5.....	84
Hydrograph No. 6, SCS Runoff, AREA 6.....	85
Hydrograph No. 7, SCS Runoff, AREA 7.....	86
Hydrograph No. 8, SCS Runoff, AREA A.....	87
Hydrograph No. 9, SCS Runoff, AREA B.....	88
Hydrograph No. 10, SCS Runoff, AREA D.....	89
Hydrograph No. 11, SCS Runoff, AREA C.....	90
Hydrograph No. 12, SCS Runoff, AREA E.....	91
Hydrograph No. 13, SCS Runoff, AREA F.....	92
Hydrograph No. 14, SCS Runoff, AREA G.....	93
Hydrograph No. 15, Combine, STORMTECH AREA.....	94
Hydrograph No. 16, SCS Runoff, AREA H.....	95
Hydrograph No. 17, Combine, COMBINED SYSTEM TO STORMTECH.....	96
Hydrograph No. 18, Reservoir, STORMTECH/ISOLATOR ROW.....	97

50 - Year

Summary Report.....	98
Hydrograph Reports.....	99
Hydrograph No. 1, SCS Runoff, AREA 1.....	99
Hydrograph No. 2, SCS Runoff, AREA 2.....	100
Hydrograph No. 3, SCS Runoff, AREA 3.....	101
Hydrograph No. 4, SCS Runoff, AREA 4.....	102
Hydrograph No. 5, SCS Runoff, AREA 5.....	103
Hydrograph No. 6, SCS Runoff, AREA 6.....	104
Hydrograph No. 7, SCS Runoff, AREA 7.....	105
Hydrograph No. 8, SCS Runoff, AREA A.....	106
Hydrograph No. 9, SCS Runoff, AREA B.....	107
Hydrograph No. 10, SCS Runoff, AREA D.....	108
Hydrograph No. 11, SCS Runoff, AREA C.....	109
Hydrograph No. 12, SCS Runoff, AREA E.....	110
Hydrograph No. 13, SCS Runoff, AREA F.....	111
Hydrograph No. 14, SCS Runoff, AREA G.....	112
Hydrograph No. 15, Combine, STORMTECH AREA.....	113
Hydrograph No. 16, SCS Runoff, AREA H.....	114
Hydrograph No. 17, Combine, COMBINED SYSTEM TO STORMTECH.....	115
Hydrograph No. 18, Reservoir, STORMTECH/ISOLATOR ROW.....	116

100 - Year

Summary Report.....	117
Hydrograph Reports.....	118
Hydrograph No. 1, SCS Runoff, AREA 1.....	118
Hydrograph No. 2, SCS Runoff, AREA 2.....	119
Hydrograph No. 3, SCS Runoff, AREA 3.....	120
Hydrograph No. 4, SCS Runoff, AREA 4.....	121
Hydrograph No. 5, SCS Runoff, AREA 5.....	122
Hydrograph No. 6, SCS Runoff, AREA 6.....	123
Hydrograph No. 7, SCS Runoff, AREA 7.....	124
Hydrograph No. 8, SCS Runoff, AREA A.....	125
Hydrograph No. 9, SCS Runoff, AREA B.....	126
Hydrograph No. 10, SCS Runoff, AREA D.....	127

Hydrograph No. 11, SCS Runoff, AREA C.....	128
Hydrograph No. 12, SCS Runoff, AREA E.....	129
Hydrograph No. 13, SCS Runoff, AREA F.....	130
Hydrograph No. 14, SCS Runoff, AREA G.....	131
Hydrograph No. 15, Combine, STORMTECH AREA.....	132
Hydrograph No. 16, SCS Runoff, AREA H.....	133
Hydrograph No. 17, Combine, COMBINED SYSTEM TO STORMTECH.....	134
Hydrograph No. 18, Reservoir, STORMTECH/ISOLATOR ROW.....	135
IDF Report.....	136