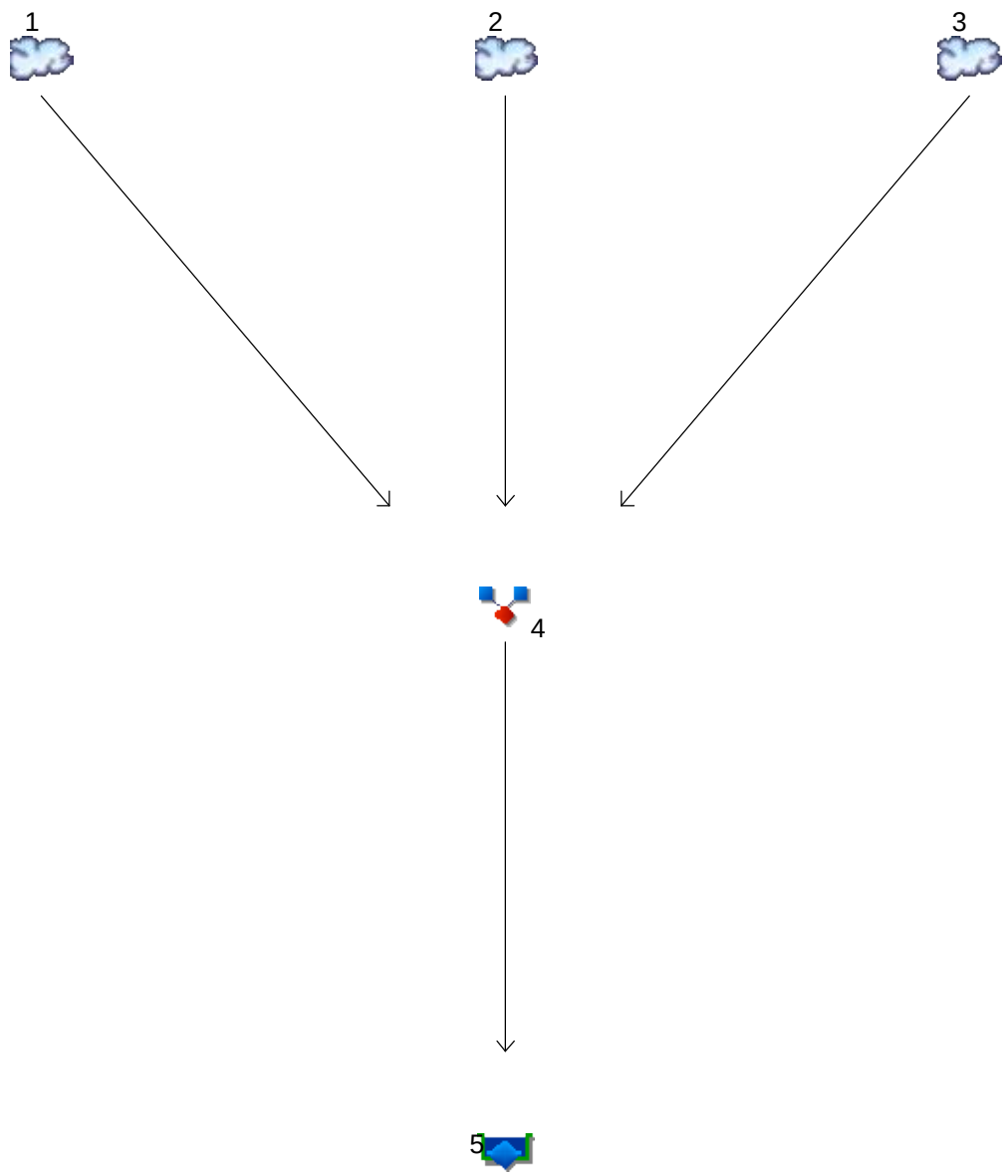
Watershed Model Schematic



Legend

Hyd.	Origin	Description
1	SCS Runoff	West offsite
2	SCS Runoff	East Offsite
3	SCS Runoff	West High Athletics
4	Combine	to Sed basin
5	Reservoir	Sediment Basin Outfall

Hydrograph Return Period Recap

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	------	33.08	46.17	6.432	65.24	78.68	95.96	111.30	128.50	West offsite
2	SCS Runoff	------	15.99	21.30	4.278	28.86	34.13	40.86	46.82	53.49	East Offsite
3	SCS Runoff	------	20.52	30.14	2.519	44.54	54.85	68.23	80.17	93.62	West High Athletics
4	Combine	1, 2, 3	60.56	85.35	11.06	121.74	147.52	180.78	210.35	243.56	to Sed basin
5	Reservoir	4	0.000	0.000	0.000	0.054	0.510	1.691	3.217	5.376	Sediment Basin Outfall

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

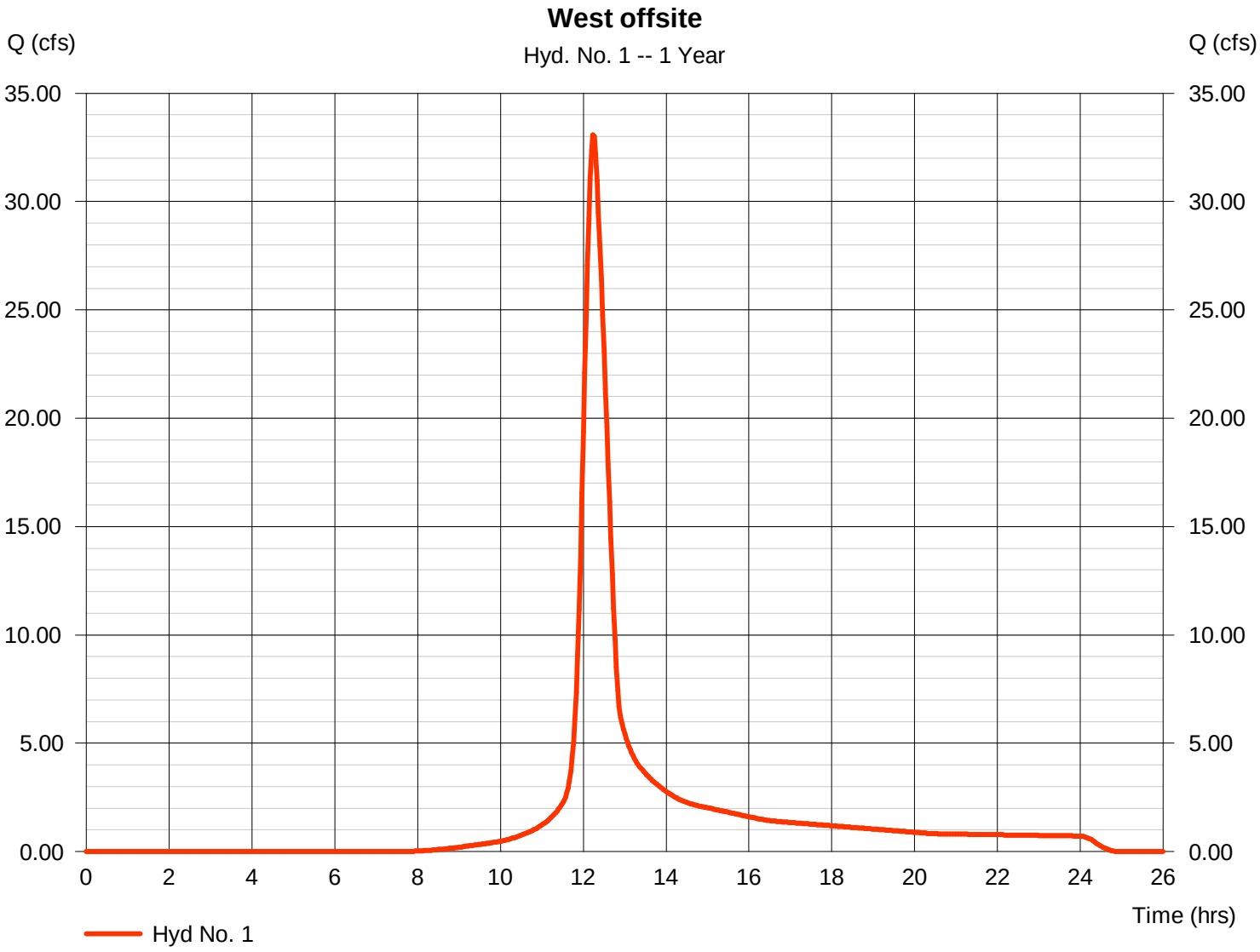
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	33.08	2	734	150,028	------	------	------	West offsite
2	SCS Runoff	15.99	2	722	45,380	------	------	------	East Offsite
3	SCS Runoff	20.52	2	722	58,024	------	------	------	West High Athletics
4	Combine	60.56	2	724	253,432	1, 2, 3	------	------	to Sed basin
5	Reservoir	0.000	2	1008	0	4	1290.03	180,447	Sediment Basin Outfall

Hydrograph Report

Hyd. No. 1

West offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	33.08 cfs
Storm frequency	=	1 yrs	Time to peak	=	12.23 hrs
Time interval	=	2 min	Hyd. volume	=	150,028 cuft
Drainage area	=	26.700 ac	Curve number	=	87
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.90 min
Total precip.	=	2.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484



TR55 Tc Worksheet

Hyd. No. 1

West offsite

Description	A		B		C		Totals
Sheet Flow							
Manning's n-value	= 0.050		0.011		0.011		
Flow length (ft)	= 250.0		0.0		0.0		
Two-year 24-hr precip. (in)	= 3.50		0.00		0.00		
Land slope (%)	= 0.40		0.00		0.00		
Travel Time (min)	**= 15.41**	**+**	**0.00**	**+**	**0.00**	**=**	**15.41**
Shallow Concentrated Flow							
Flow length (ft)	= 1500.00		0.00		0.00		
Watercourse slope (%)	= 0.40		0.00		0.00		
Surface description	= Paved		Paved		Paved		
Average velocity (ft/s)	=1.29		0.00		0.00		
Travel Time (min)	**= 19.45**	**+**	**0.00**	**+**	**0.00**	**=**	**19.45**
Channel Flow							
X sectional flow area (sqft)	= 0.00		0.00		0.00		
Wetted perimeter (ft)	= 0.00		0.00		0.00		
Channel slope (%)	= 0.00		0.00		0.00		
Manning's n-value	= 0.015		0.015		0.015		
Velocity (ft/s)	=0.00						
			0.00				
					0.00		
Flow length (ft)	({0})0.0		0.0		0.0		
Travel Time (min)	**= 0.00**	**+**	**0.00**	**+**	**0.00**	**=**	**0.00**

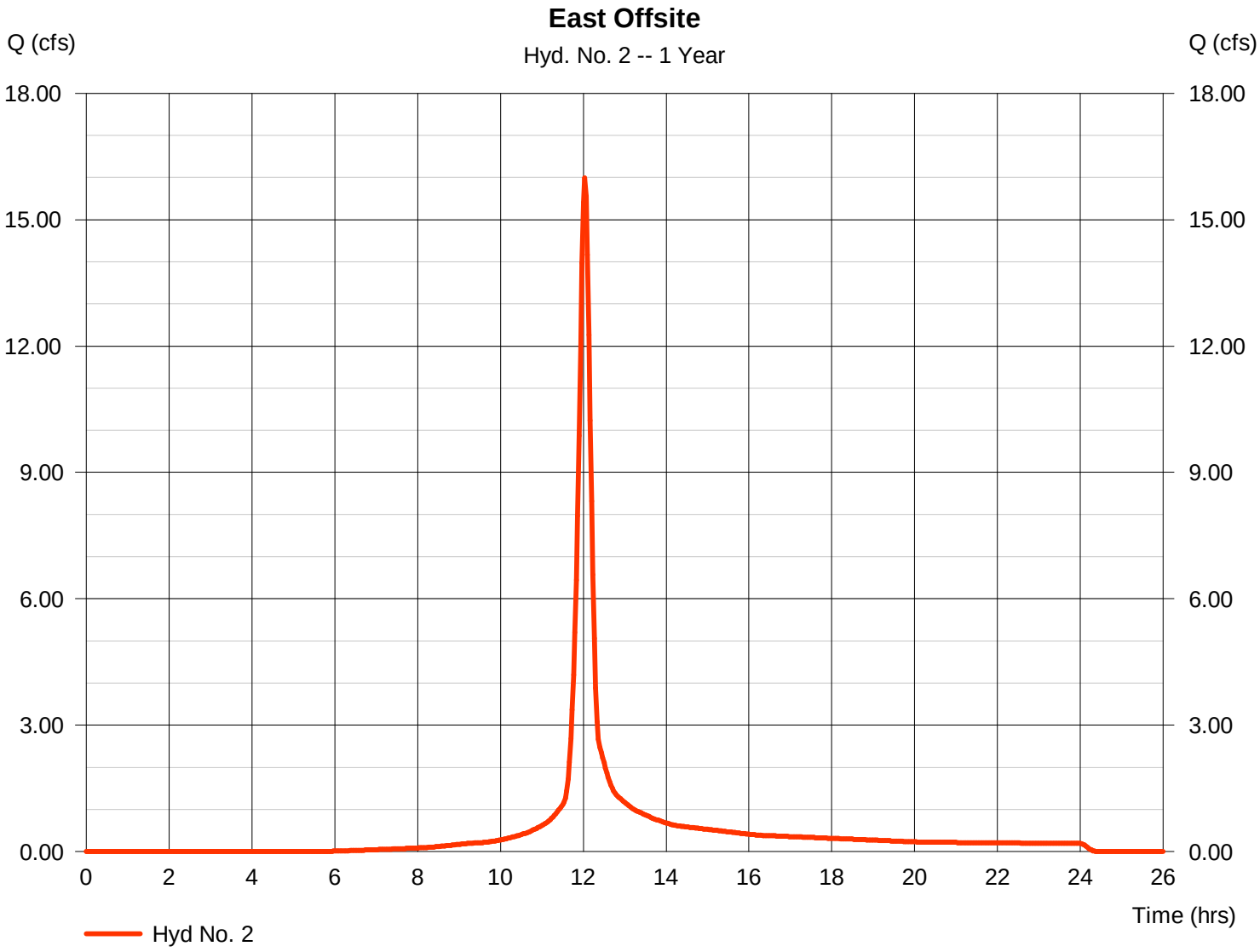
Total Travel Time, Tc ..... 34.90 min

Hydrograph Report

Hyd. No. 2

East Offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	15.99 cfs
Storm frequency	=	1 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	45,380 cuft
Drainage area	=	6.800 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	2.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

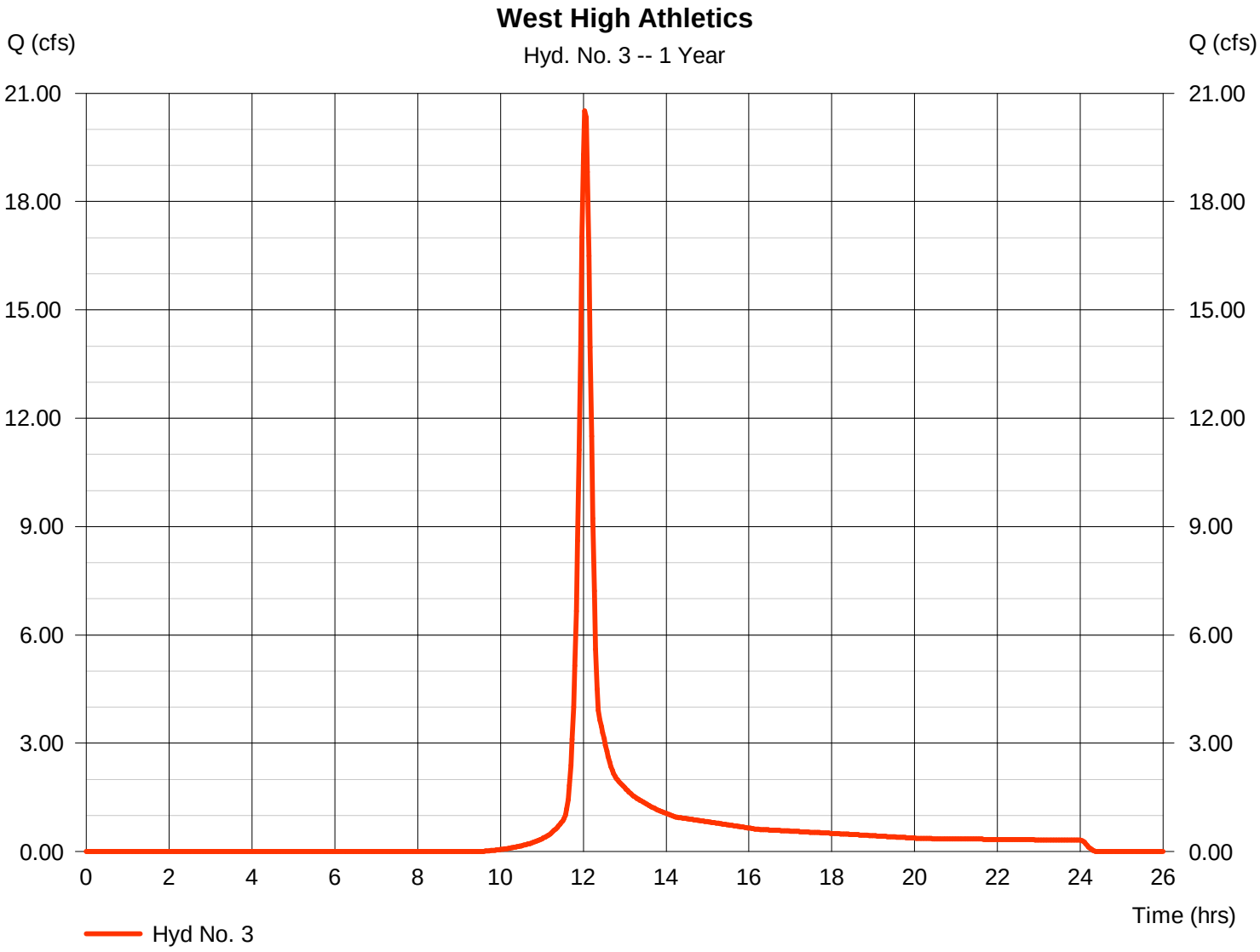


Hydrograph Report

Hyd. No. 3

West High Athletics

Hydrograph type	=	SCS Runoff	Peak discharge	=	20.52 cfs
Storm frequency	=	1 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	58,024 cuft
Drainage area	=	13.400 ac	Curve number	=	82
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	2.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

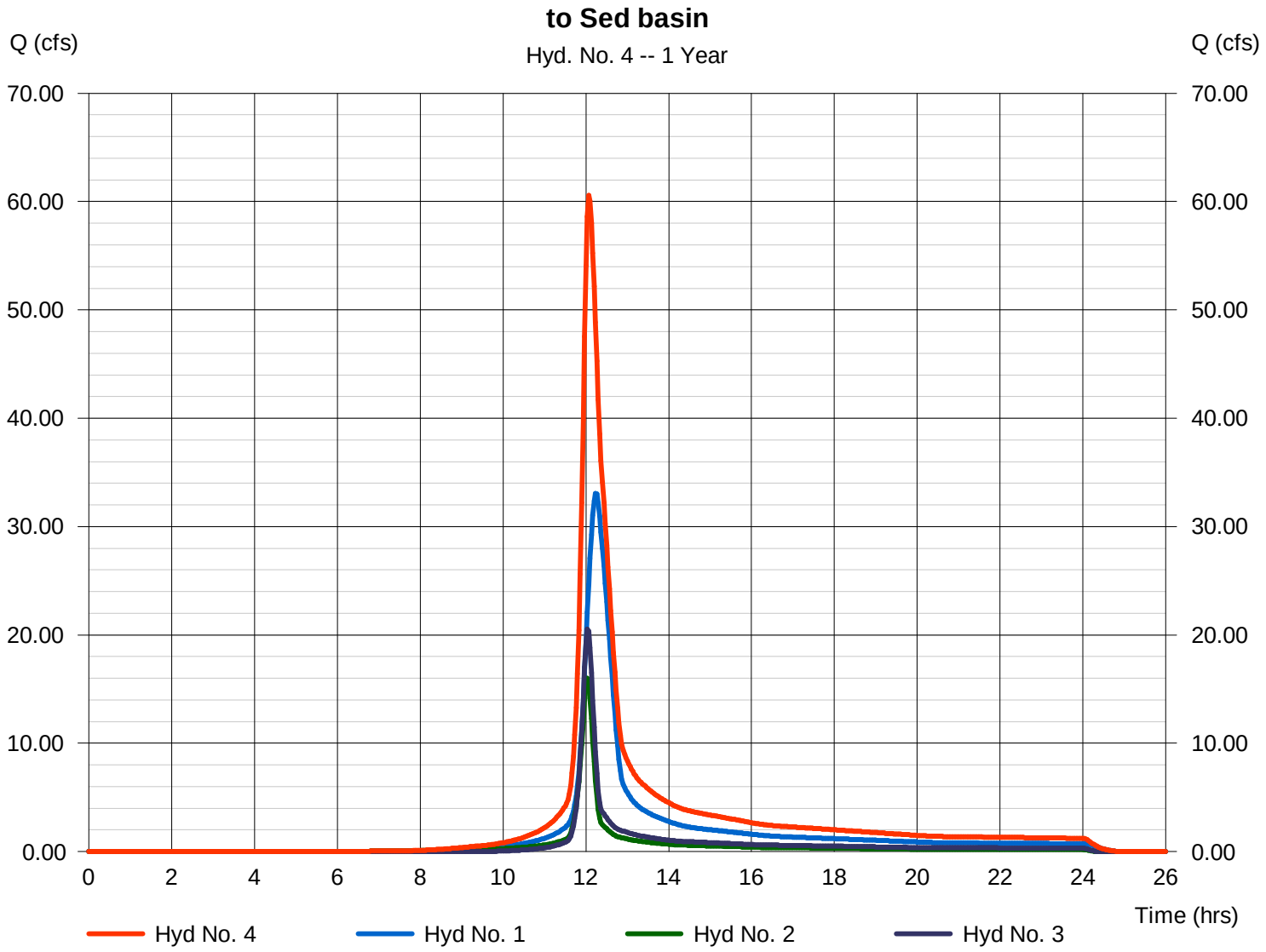


Hydrograph Report

Hyd. No. 4

to Sed basin

Hydrograph type	= Combine	Peak discharge	= 60.56 cfs
Storm frequency	= 1 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 253,432 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 46.900 ac



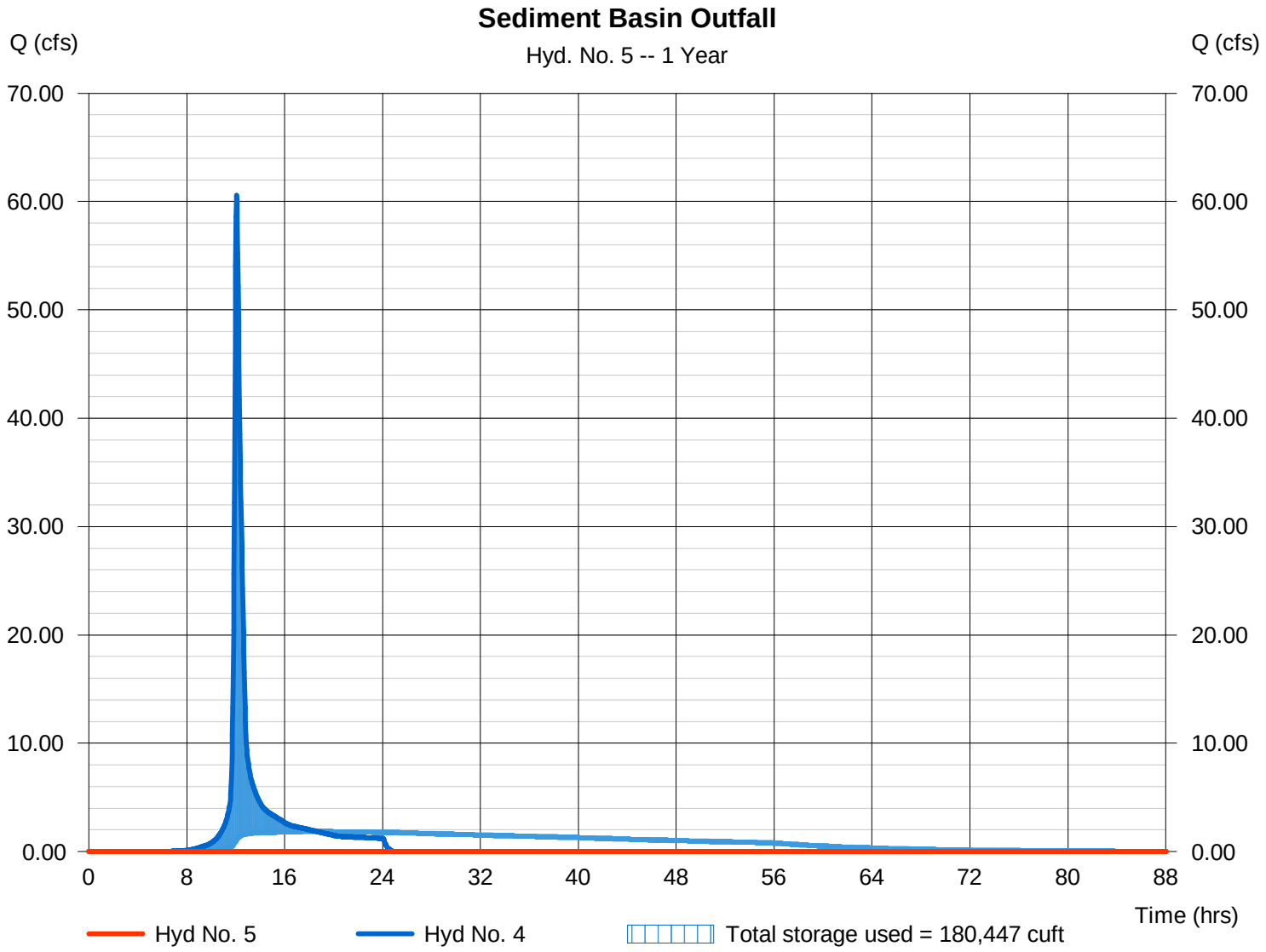
Hydrograph Report

Hyd. No. 5

Sediment Basin Outfall

Hydrograph type	= Reservoir	Peak discharge	= 0.000 cfs
Storm frequency	= 1 yrs	Time to peak	= 16.80 hrs
Time interval	= 2 min	Hyd. volume	= 0 cuft
Inflow hyd. No.	= 4 - to Sed basin	Max. Elevation	= 1290.03 ft
Reservoir name	= Sediment Basin	Max. Storage	= 180,447 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Pond Report

Pond No. 1 - Sediment Basin

Pond Data

Contours - User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 1287.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1287.00	10,800	0	0
1.00	1288.00	46,630	26,621	26,621
2.00	1289.00	75,350	60,412	87,033
3.00	1290.00	104,300	89,425	176,458
4.00	1291.00	207,060	152,757	329,215
5.00	1292.00	520,160	351,766	680,981
6.00	1293.00	900,000	701,387	1,382,368

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 24.00	0.00	0.00	0.00
Span (in)	= 24.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1291.00	0.00	0.00	0.00
Length (ft)	= 110.00	0.00	0.00	0.00
Slope (%)	= 0.90	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	Inactive	0.00	0.00	0.00
Crest El. (ft)	= 1289.25	0.00	0.00	0.00
Weir Coeff.	= 2.60	3.33	3.33	3.33
Weir Type	= Broad	---	---	---
Multi-Stage	= No	No	No	No
Exfil.(in/hr)	= 0.750 (by Contour)			
TW Elev. (ft)	= 0.00			

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

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	1287.00	0.00	---	---	---	0.00	---	---	---	0.000	---	0.000
1.00	26,621	1288.00	0.00	---	---	---	0.00	---	---	---	0.810	---	0.810
2.00	87,033	1289.00	0.00	---	---	---	0.00	---	---	---	1.308	---	1.308
3.00	176,458	1290.00	0.00	---	---	---	0.00	---	---	---	1.811	---	1.811
4.00	329,215	1291.00	0.00	---	---	---	0.00	---	---	---	3.595	---	3.595
5.00	680,981	1292.00	5.36 ic	---	---	---	0.00	---	---	---	9.030	---	14.39
6.00	1,382,368	1293.00	14.84 oc	---	---	---	0.00	---	---	---	15.625	---	30.47

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

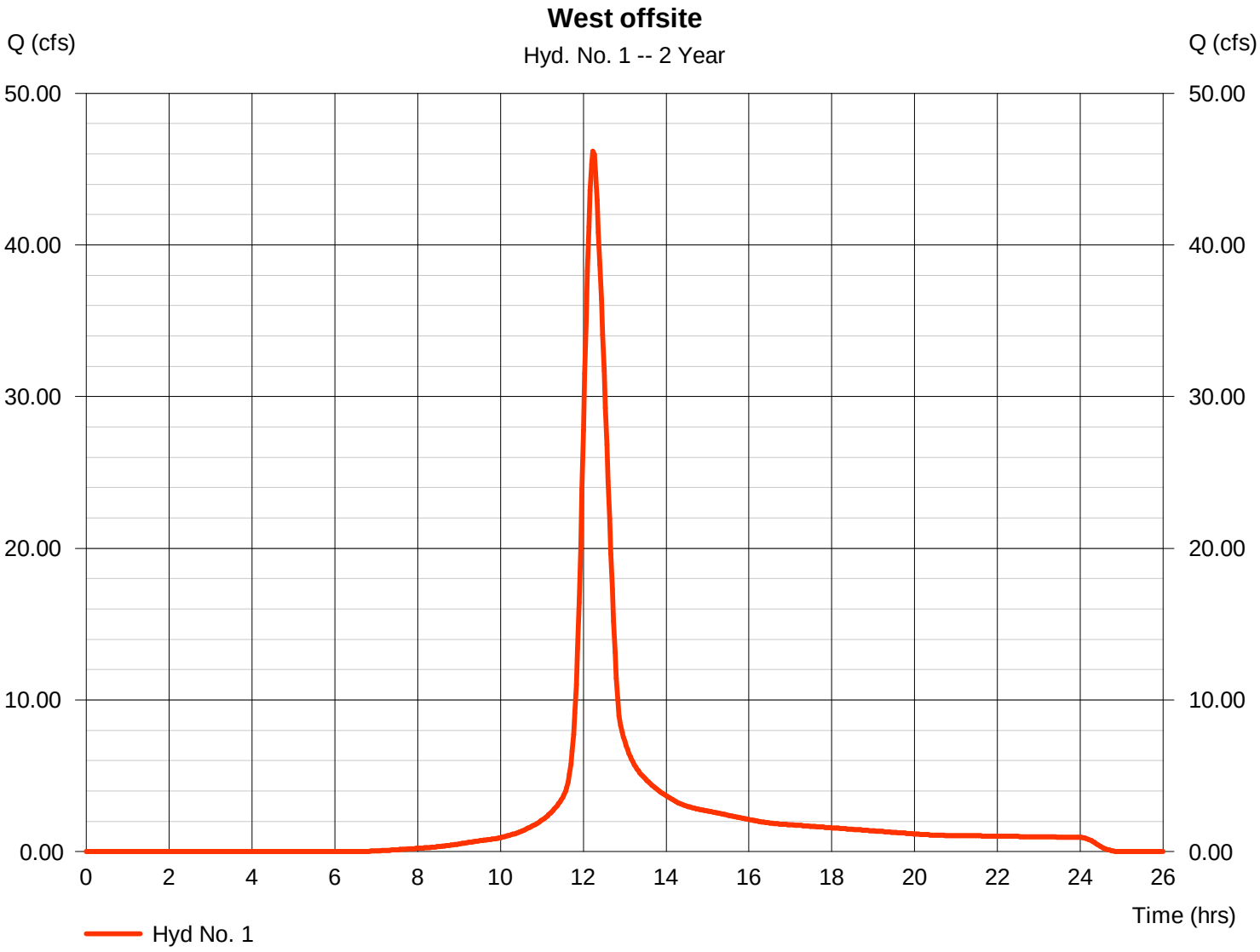
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	46.17	2	734	209,119	------	------	------	West offsite
2	SCS Runoff	21.30	2	722	61,157	------	------	------	East Offsite
3	SCS Runoff	30.14	2	722	84,542	------	------	------	West High Athletics
4	Combine	85.35	2	724	354,818	1, 2, 3	------	------	to Sed basin
5	Reservoir	0.000	2	762	0	4	1290.50	252,997	Sediment Basin Outfall

Hydrograph Report

Hyd. No. 1

West offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	46.17 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.23 hrs
Time interval	=	2 min	Hyd. volume	=	209,119 cuft
Drainage area	=	26.700 ac	Curve number	=	87
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.90 min
Total precip.	=	3.50 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

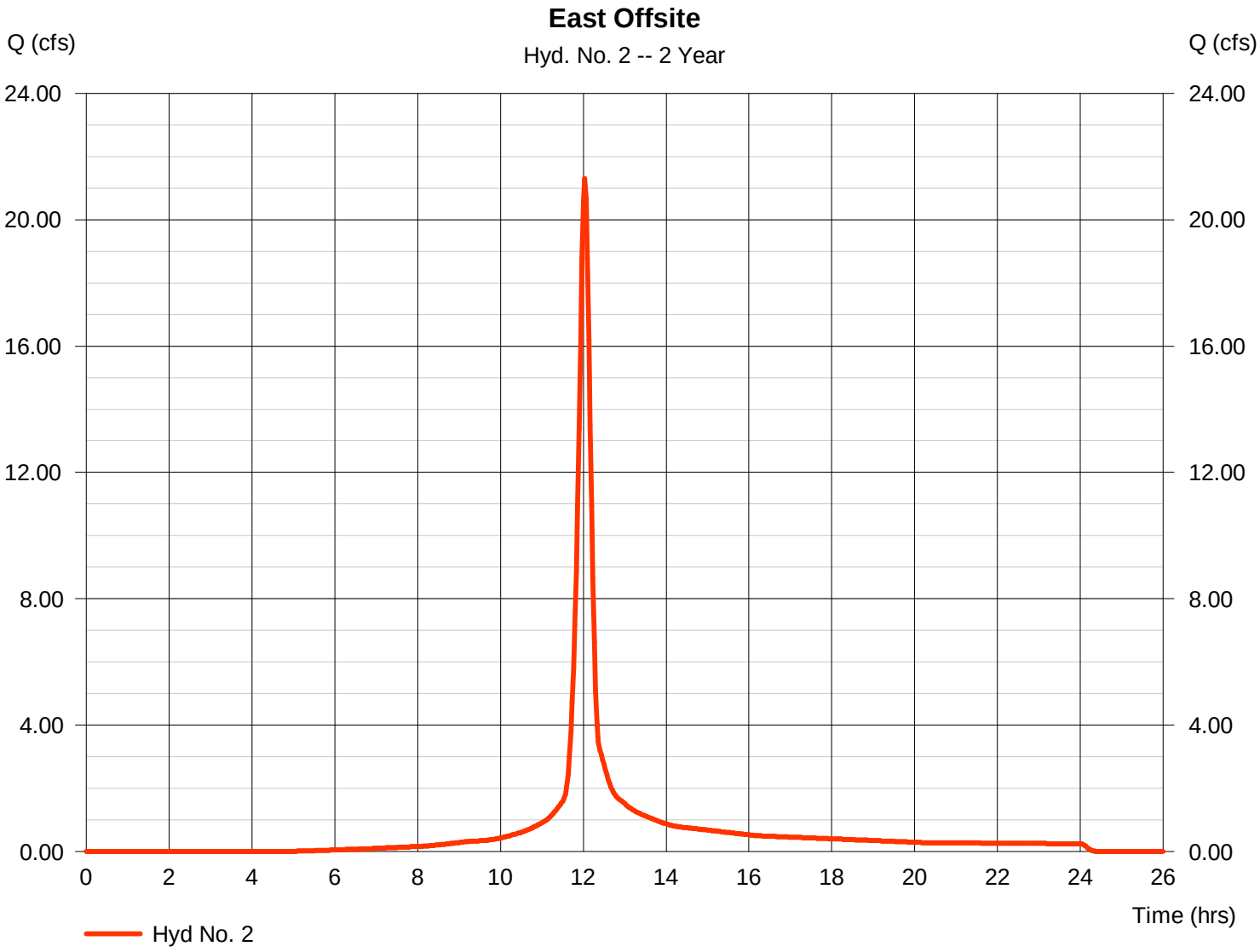


Hydrograph Report

Hyd. No. 2

East Offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	21.30 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	61,157 cuft
Drainage area	=	6.800 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	3.50 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

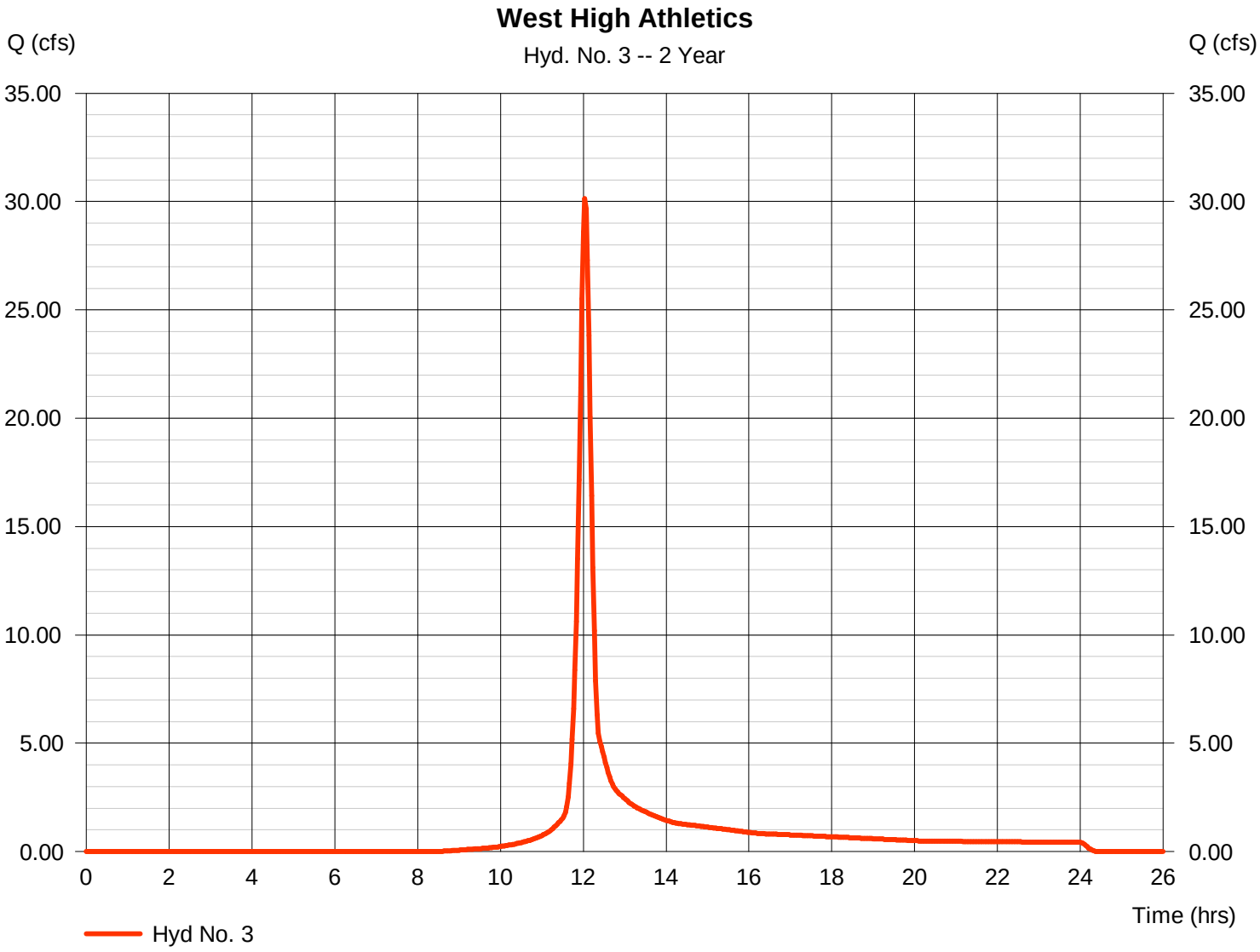


Hydrograph Report

Hyd. No. 3

West High Athletics

Hydrograph type	= SCS Runoff	Peak discharge	= 30.14 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 84,542 cuft
Drainage area	= 13.400 ac	Curve number	= 82
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 15.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

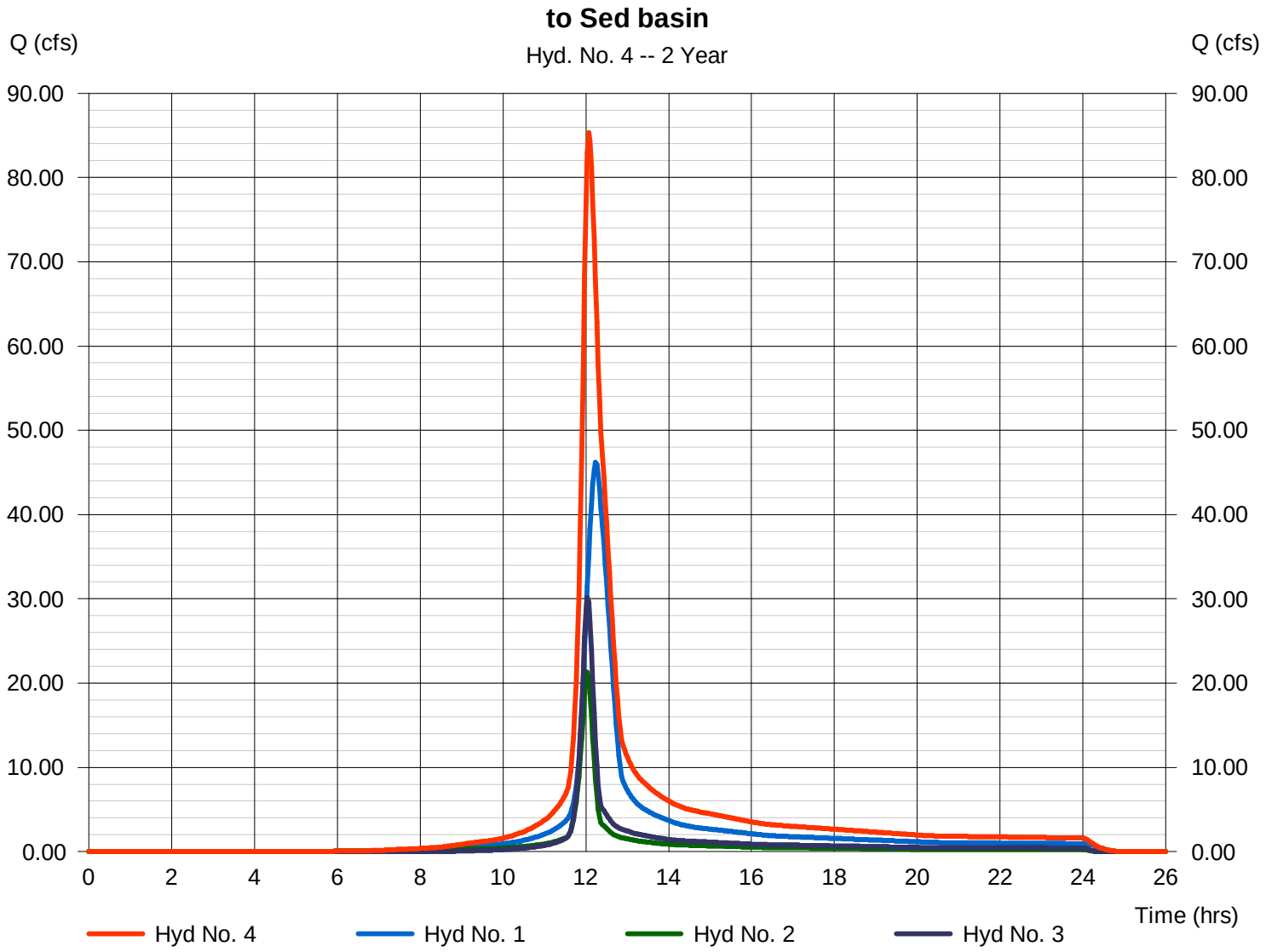


Hydrograph Report

Hyd. No. 4

to Sed basin

Hydrograph type	= Combine	Peak discharge	= 85.35 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 354,818 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 46.900 ac



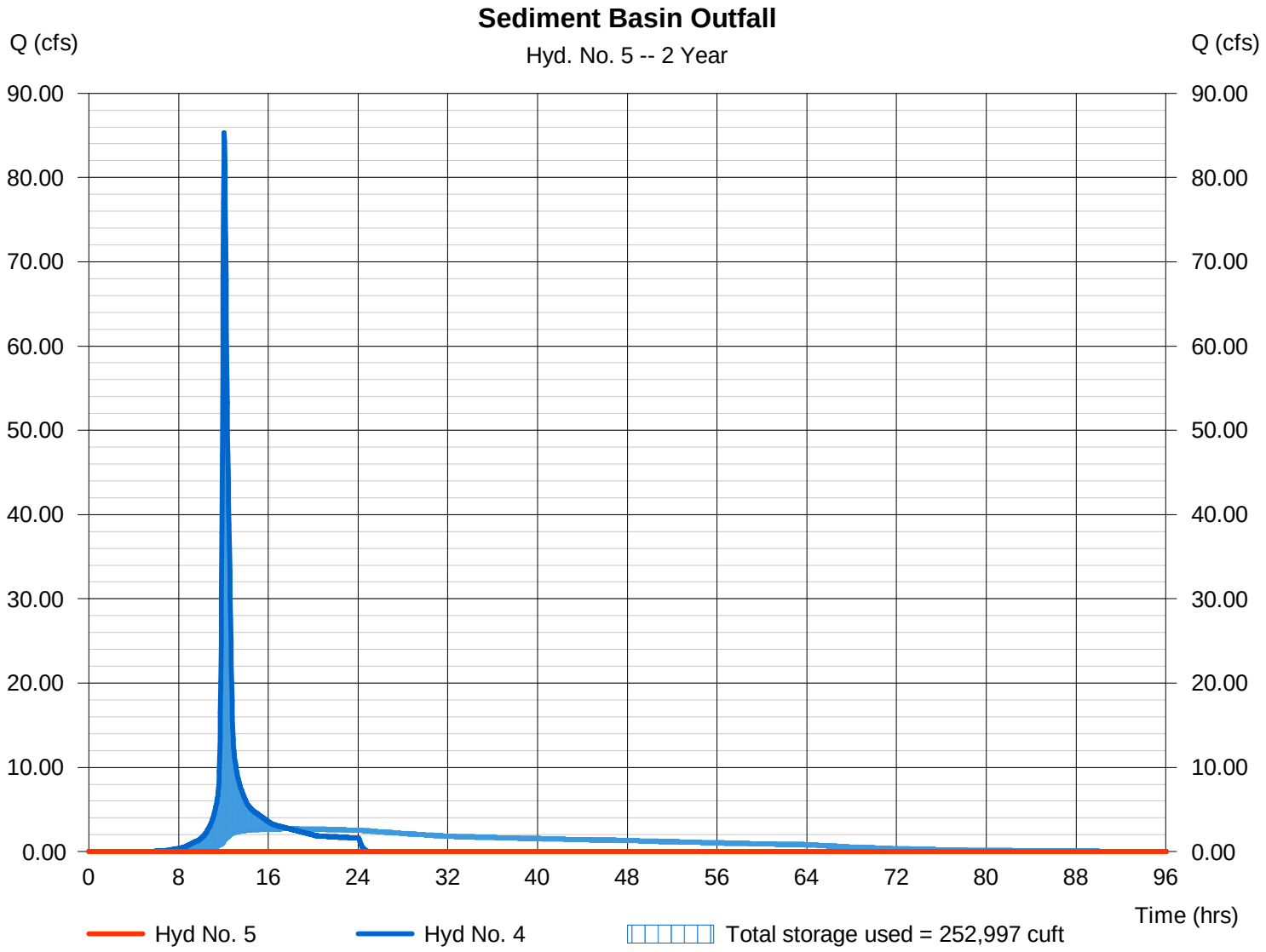
Hydrograph Report

Hyd. No. 5

Sediment Basin Outfall

Hydrograph type	= Reservoir	Peak discharge	= 0.000 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.70 hrs
Time interval	= 2 min	Hyd. volume	= 0 cuft
Inflow hyd. No.	= 4 - to Sed basin	Max. Elevation	= 1290.50 ft
Reservoir name	= Sediment Basin	Max. Storage	= 252,997 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

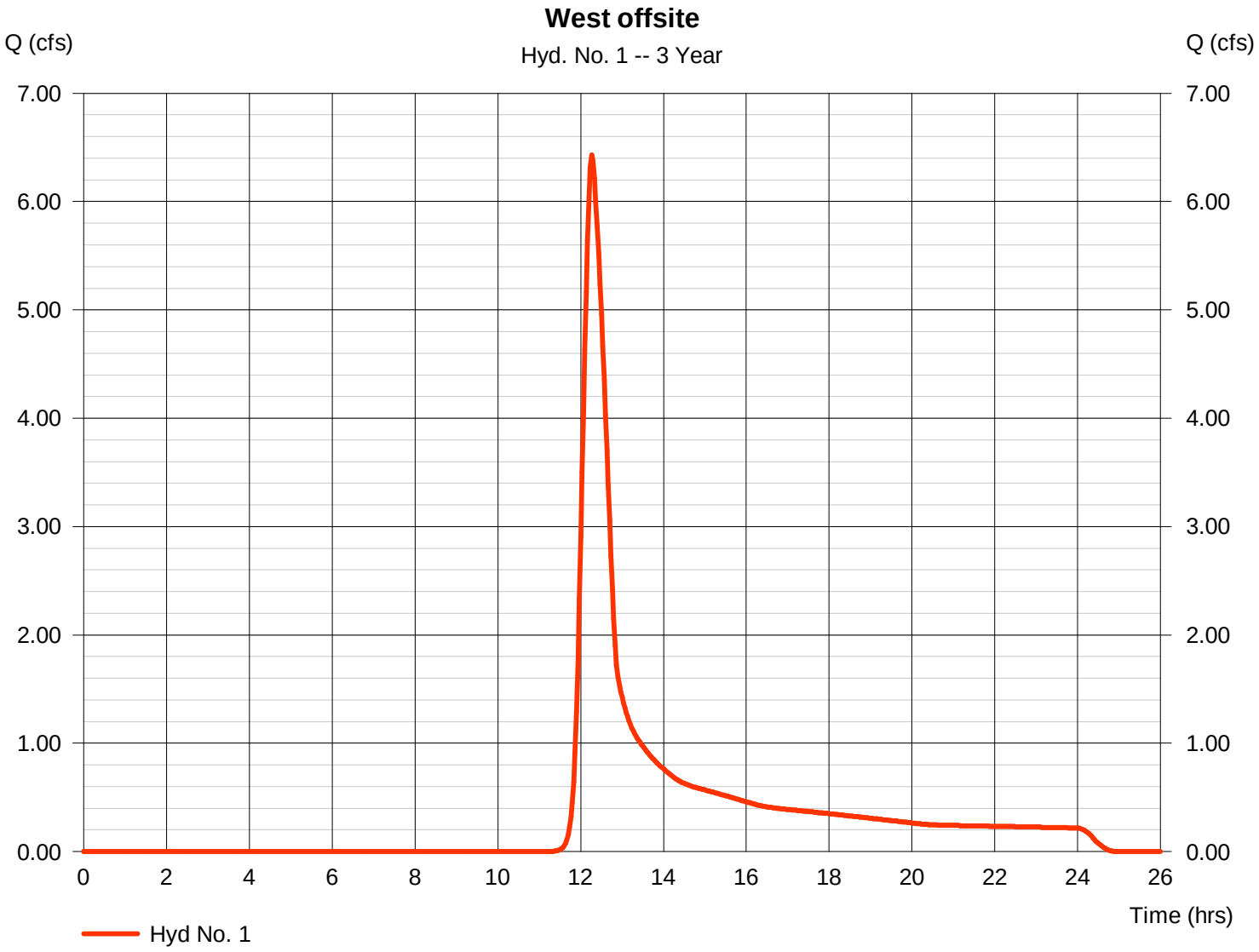
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	6.432	2	736	32,484	------	------	------	West offsite
2	SCS Runoff	4.278	2	722	12,140	------	------	------	East Offsite
3	SCS Runoff	2.519	2	724	9,288	------	------	------	West High Athletics
4	Combine	11.06	2	726	53,911	1, 2, 3	------	------	to Sed basin
5	Reservoir	0.000	2	956	0	4	1288.04	28,739	Sediment Basin Outfall

Hydrograph Report

Hyd. No. 1

West offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	6.432 cfs
Storm frequency	=	3 yrs	Time to peak	=	12.27 hrs
Time interval	=	2 min	Hyd. volume	=	32,484 cuft
Drainage area	=	26.700 ac	Curve number	=	87
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.90 min
Total precip.	=	1.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

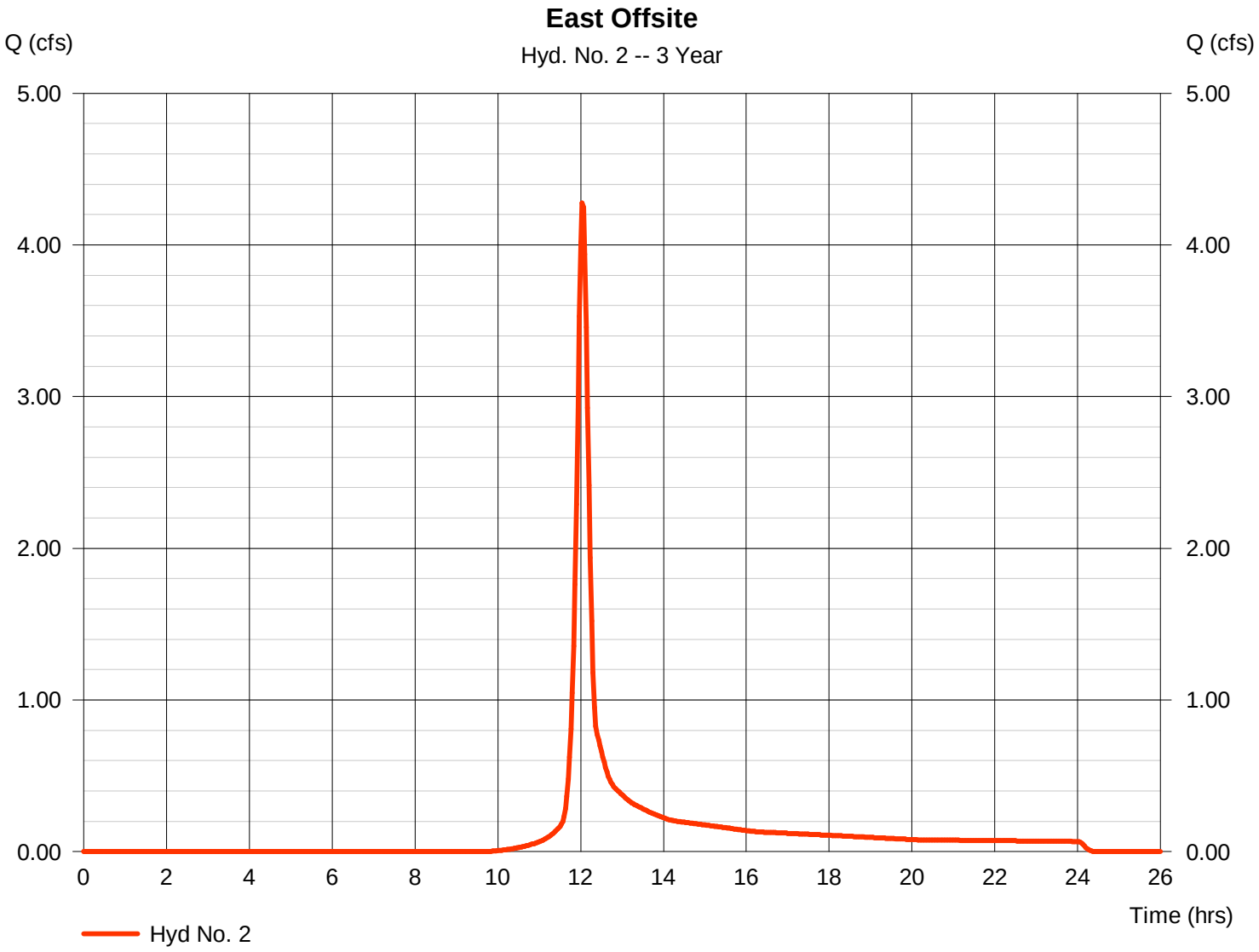


Hydrograph Report

Hyd. No. 2

East Offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	4.278 cfs
Storm frequency	=	3 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	12,140 cuft
Drainage area	=	6.800 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	1.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

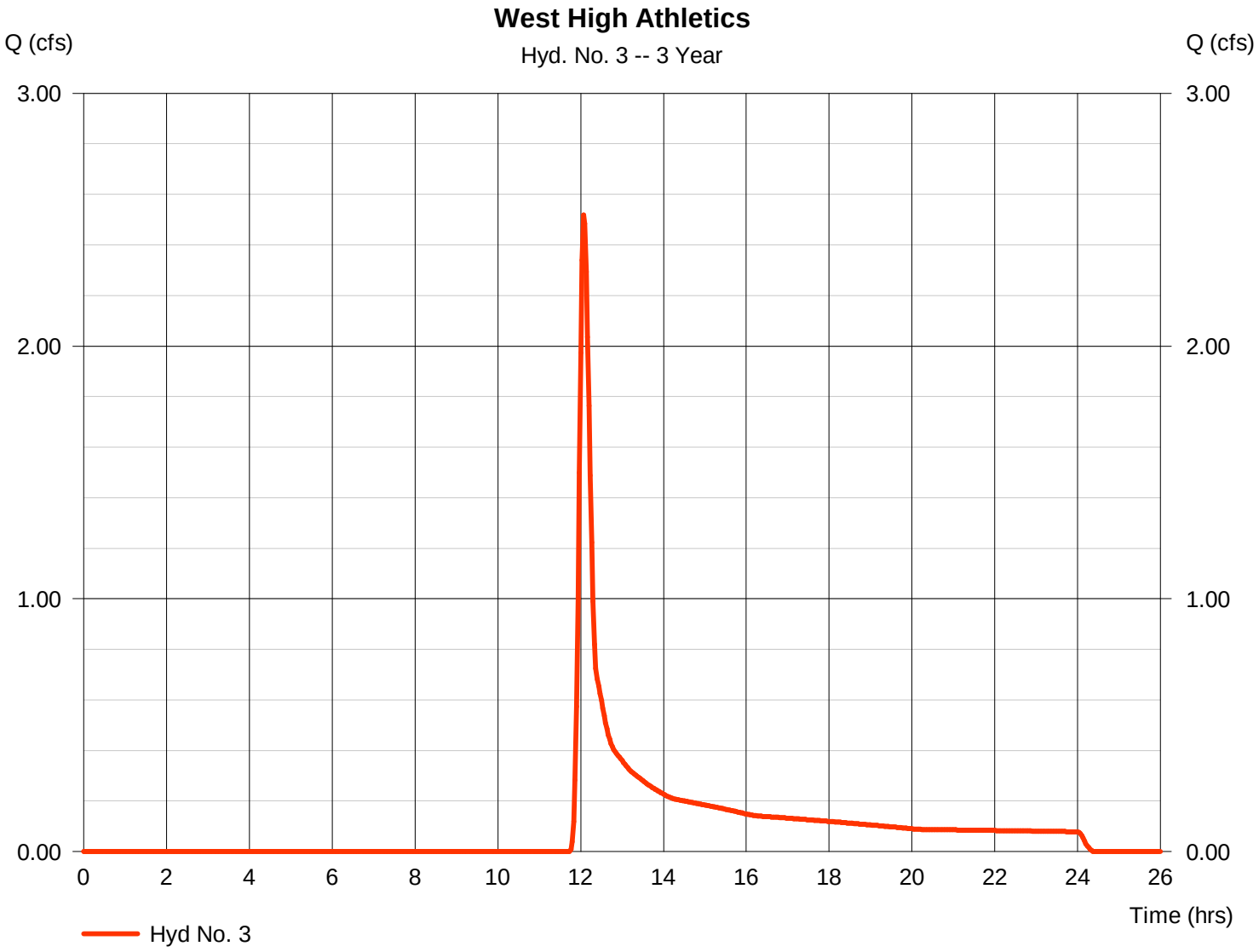


Hydrograph Report

Hyd. No. 3

West High Athletics

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.519 cfs
Storm frequency	=	3 yrs	Time to peak	=	12.07 hrs
Time interval	=	2 min	Hyd. volume	=	9,288 cuft
Drainage area	=	13.400 ac	Curve number	=	82
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	1.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

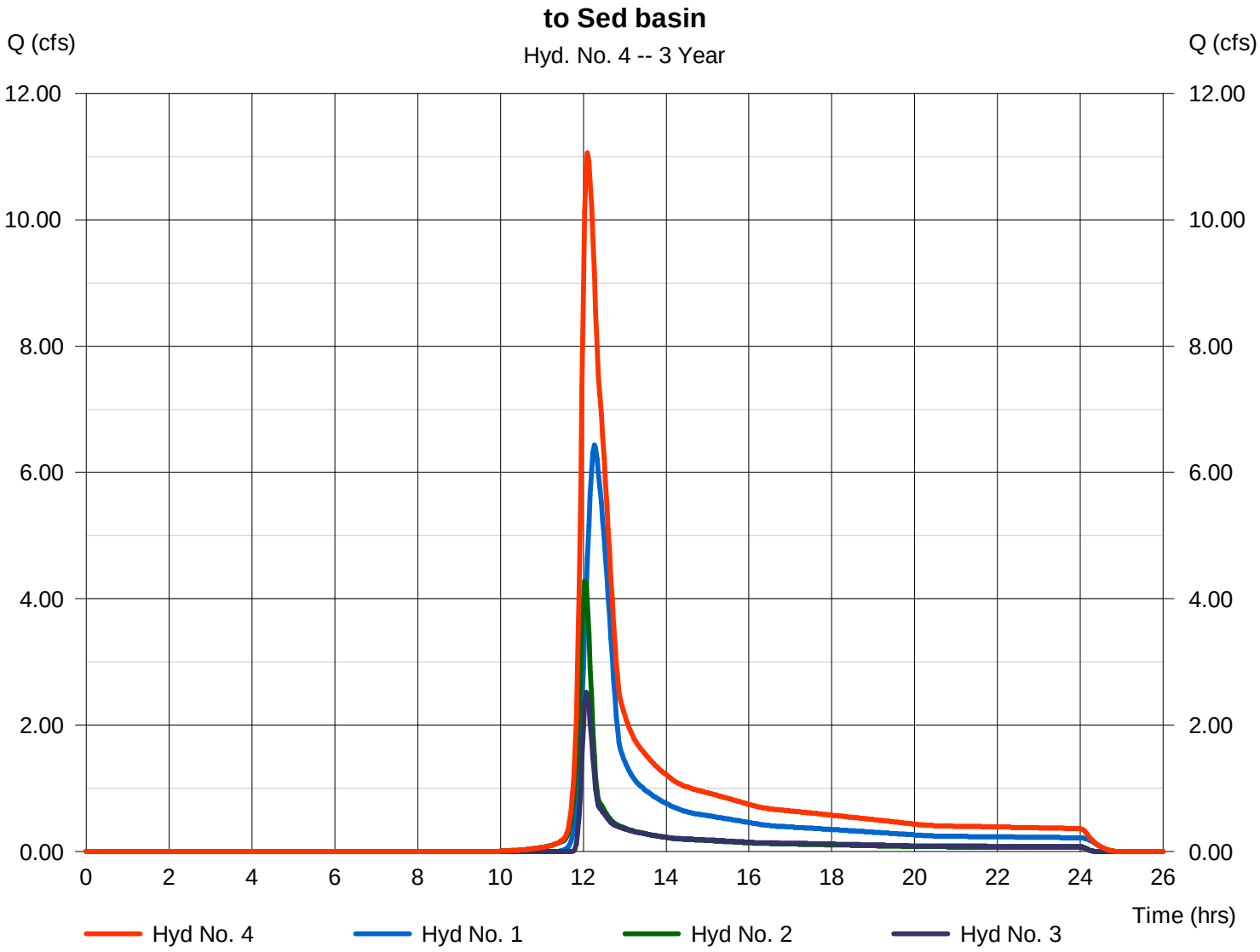


Hydrograph Report

Hyd. No. 4

to Sed basin

Hydrograph type	= Combine	Peak discharge	= 11.06 cfs
Storm frequency	= 3 yrs	Time to peak	= 12.10 hrs
Time interval	= 2 min	Hyd. volume	= 53,911 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 46.900 ac



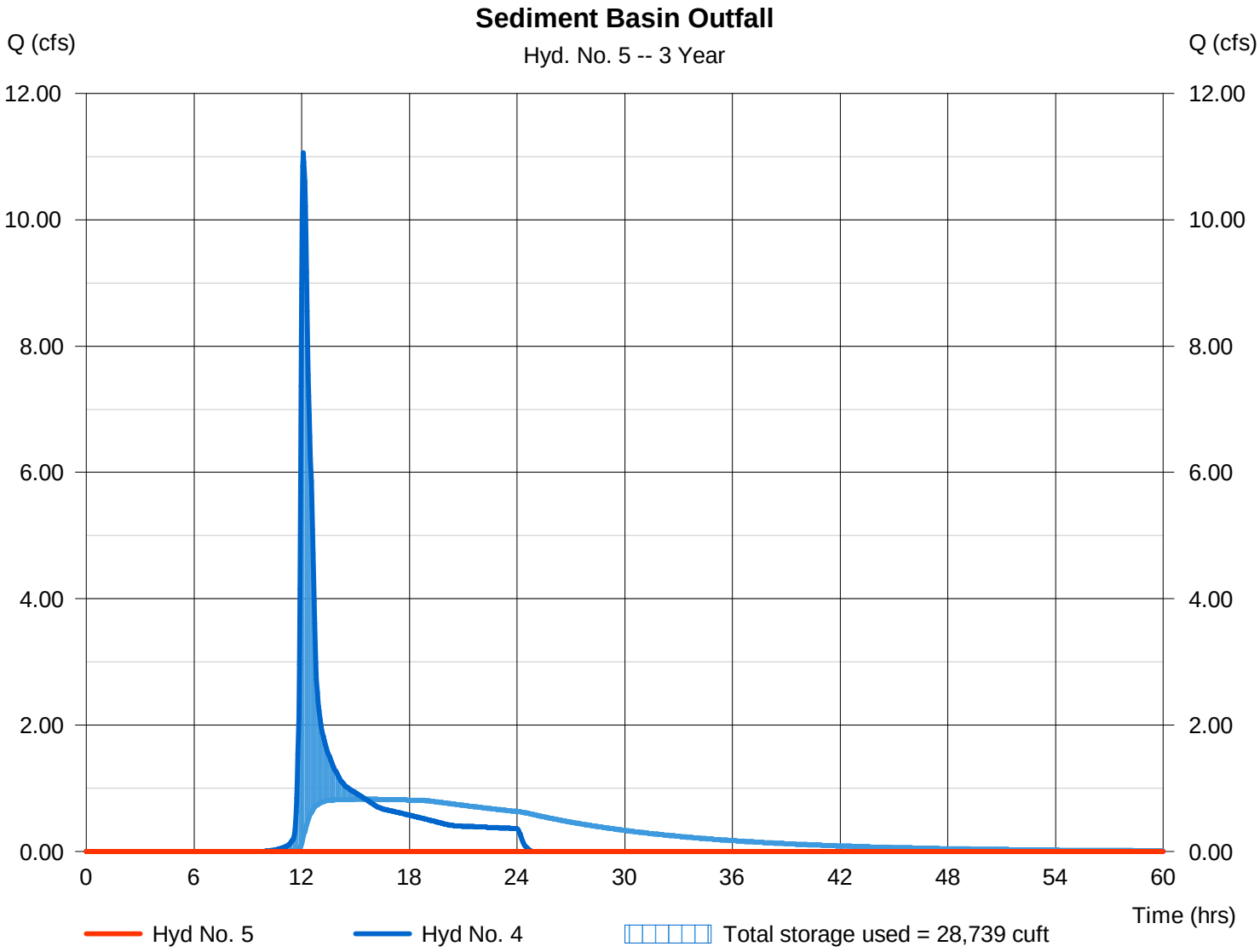
Hydrograph Report

Hyd. No. 5

Sediment Basin Outfall

Hydrograph type	= Reservoir	Peak discharge	= 0.000 cfs
Storm frequency	= 3 yrs	Time to peak	= 15.93 hrs
Time interval	= 2 min	Hyd. volume	= 0 cuft
Inflow hyd. No.	= 4 - to Sed basin	Max. Elevation	= 1288.04 ft
Reservoir name	= Sediment Basin	Max. Storage	= 28,739 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

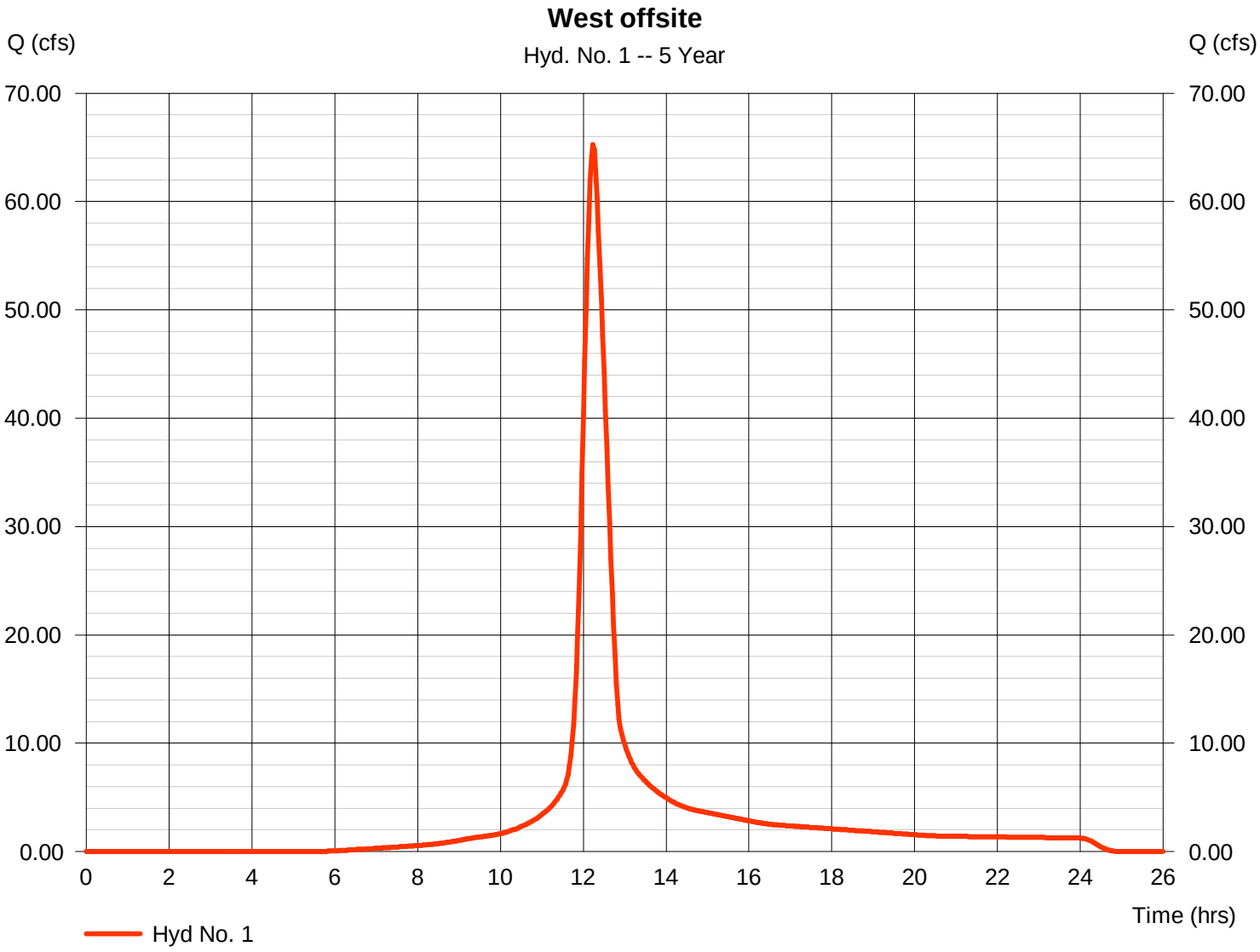
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	65.24	2	734	296,938	------	------	------	West offsite
2	SCS Runoff	28.86	2	722	84,187	------	------	------	East Offsite
3	SCS Runoff	44.54	2	722	125,018	------	------	------	West High Athletics
4	Combine	121.74	2	724	506,144	1, 2, 3	------	------	to Sed basin
5	Reservoir	0.054	2	1010	1,375	4	1291.09	359,255	Sediment Basin Outfall

Hydrograph Report

Hyd. No. 1

West offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	65.24 cfs
Storm frequency	=	5 yrs	Time to peak	=	12.23 hrs
Time interval	=	2 min	Hyd. volume	=	296,938 cuft
Drainage area	=	26.700 ac	Curve number	=	87
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.90 min
Total precip.	=	4.50 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

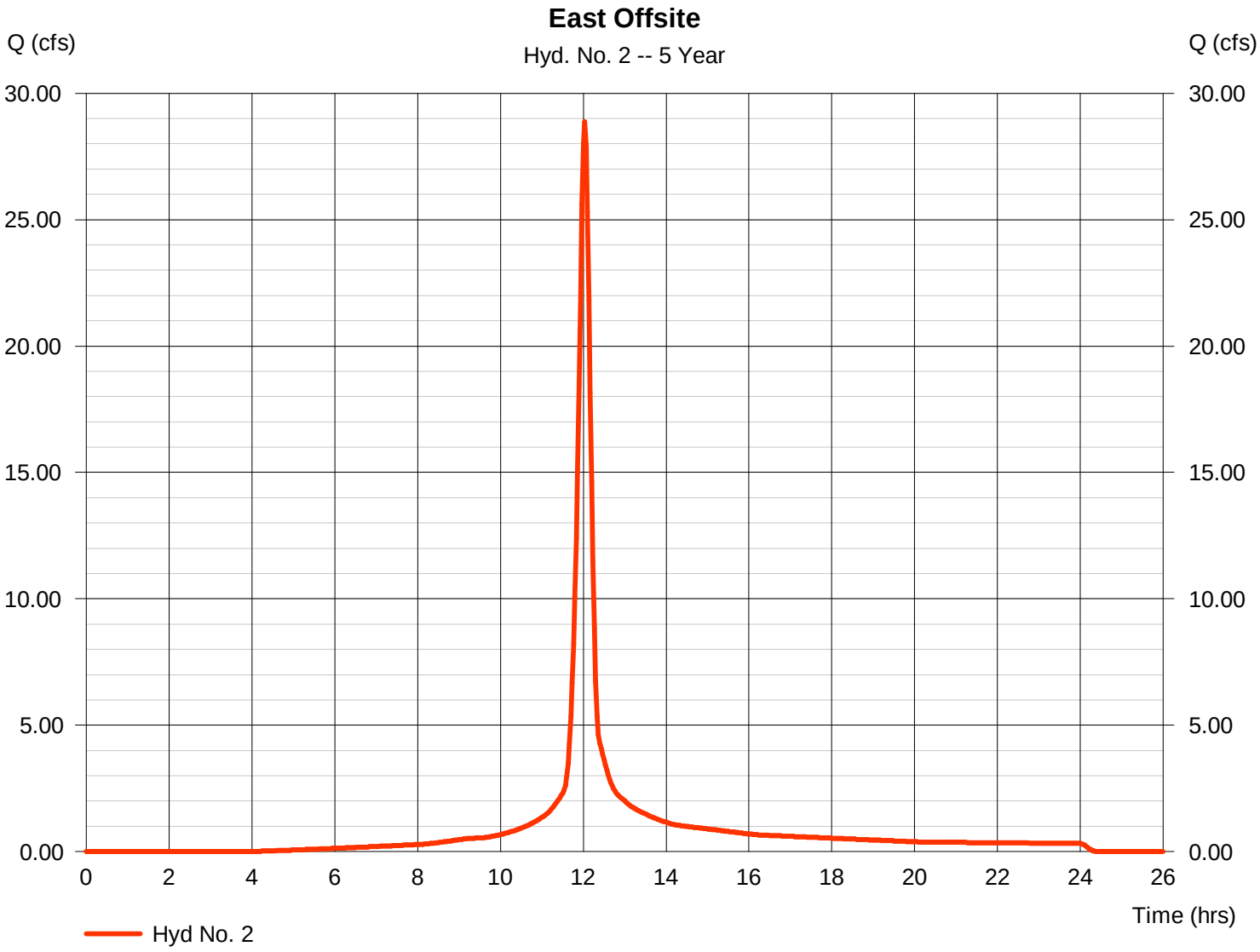


Hydrograph Report

Hyd. No. 2

East Offsite

Hydrograph type	= SCS Runoff	Peak discharge	= 28.86 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 84,187 cuft
Drainage area	= 6.800 ac	Curve number	= 91
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 15.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

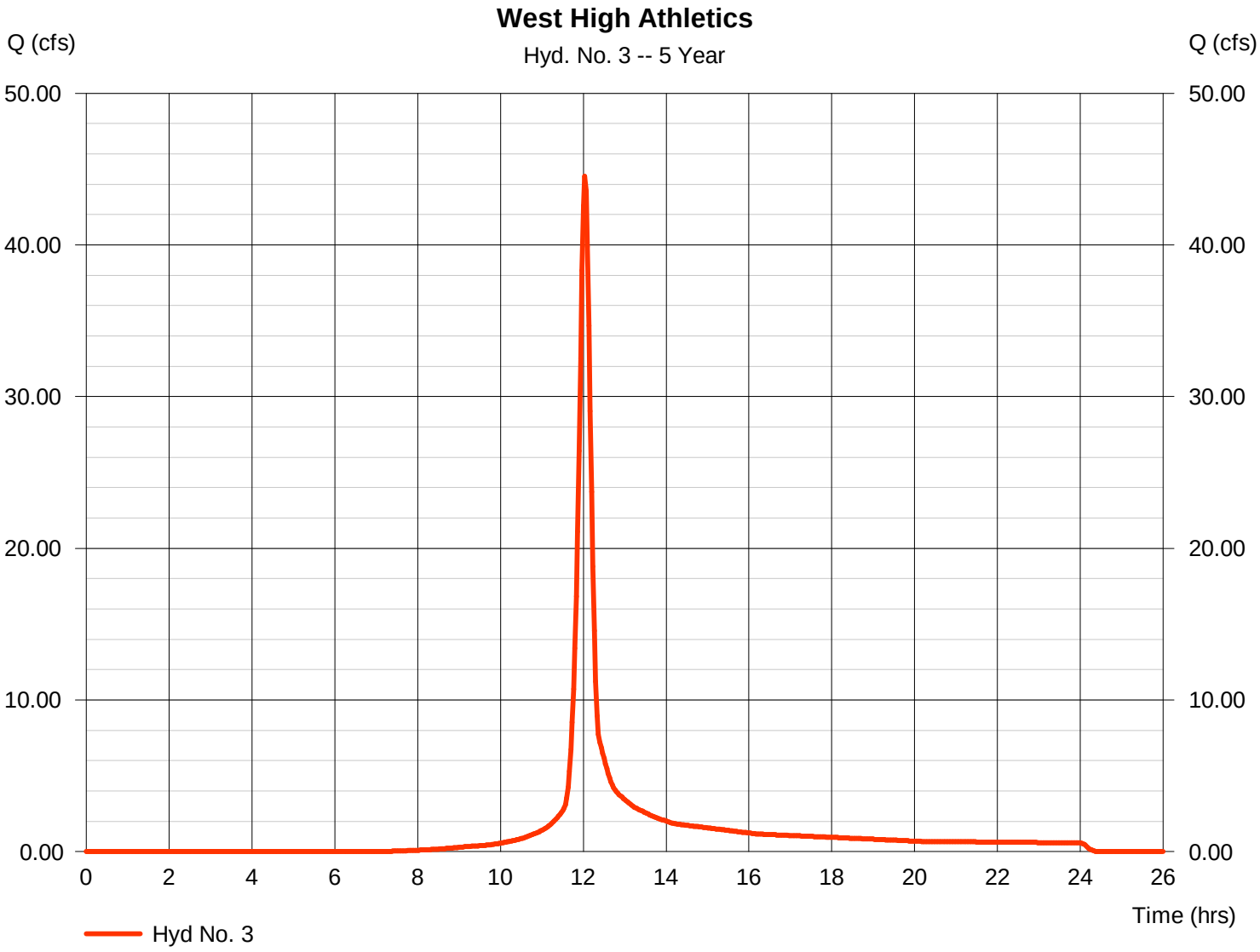


Hydrograph Report

Hyd. No. 3

West High Athletics

Hydrograph type	=	SCS Runoff	Peak discharge	=	44.54 cfs
Storm frequency	=	5 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	125,018 cuft
Drainage area	=	13.400 ac	Curve number	=	82
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	4.50 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

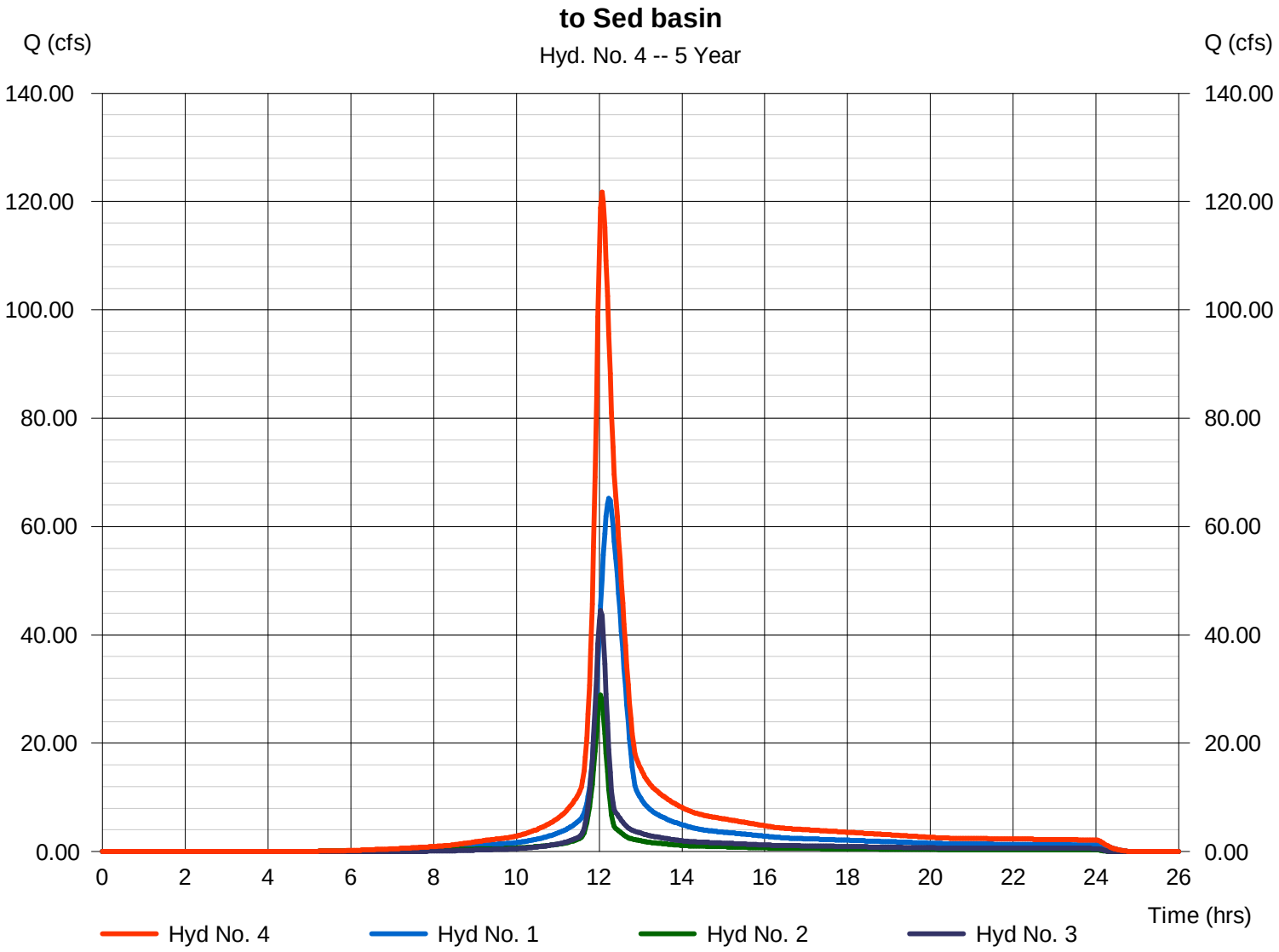


Hydrograph Report

Hyd. No. 4

to Sed basin

Hydrograph type	= Combine	Peak discharge	= 121.74 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 506,144 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 46.900 ac



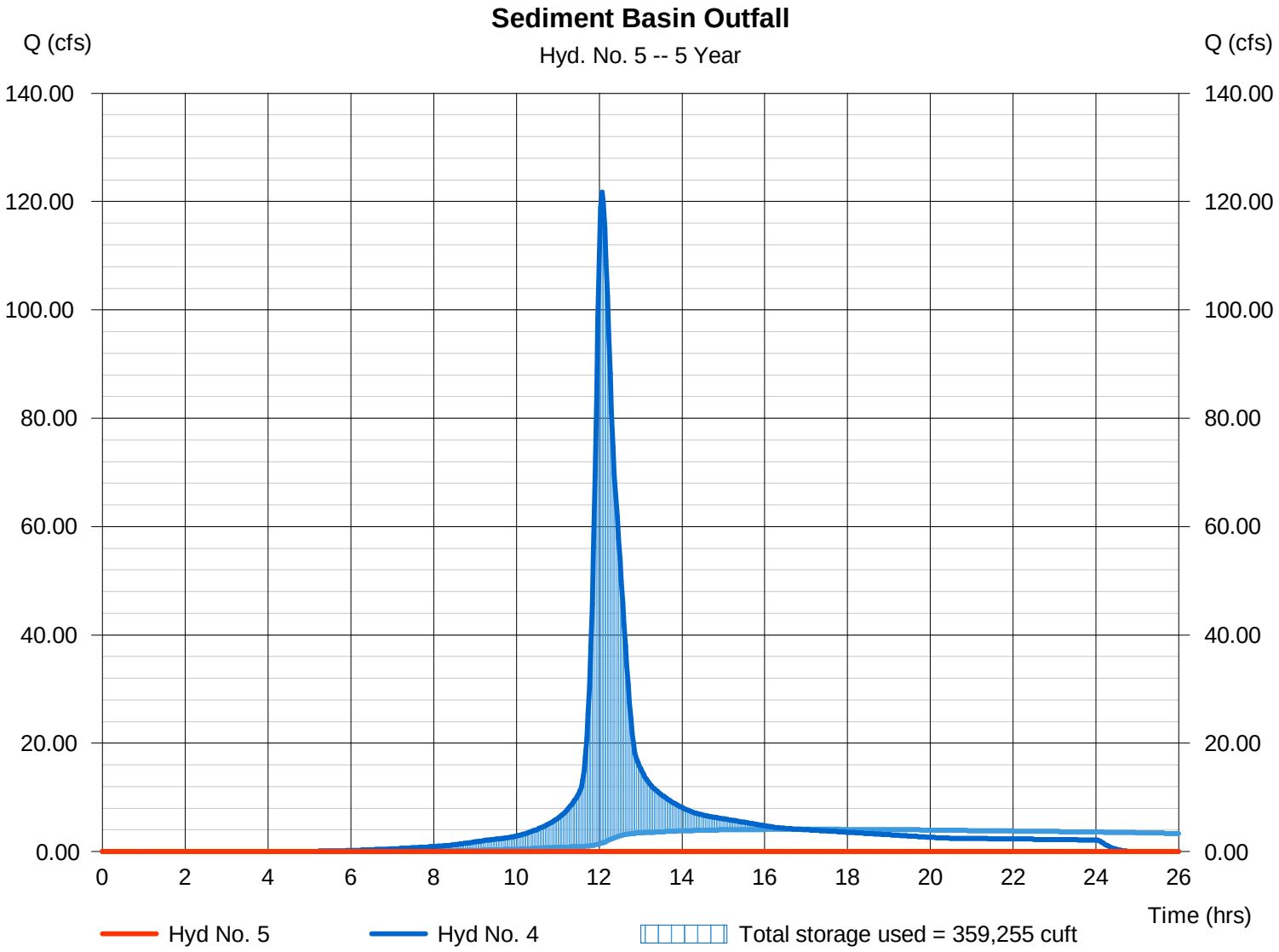
Hydrograph Report

Hyd. No. 5

Sediment Basin Outfall

Hydrograph type	= Reservoir	Peak discharge	= 0.054 cfs
Storm frequency	= 5 yrs	Time to peak	= 16.83 hrs
Time interval	= 2 min	Hyd. volume	= 1,375 cuft
Inflow hyd. No.	= 4 - to Sed basin	Max. Elevation	= 1291.09 ft
Reservoir name	= Sediment Basin	Max. Storage	= 359,255 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

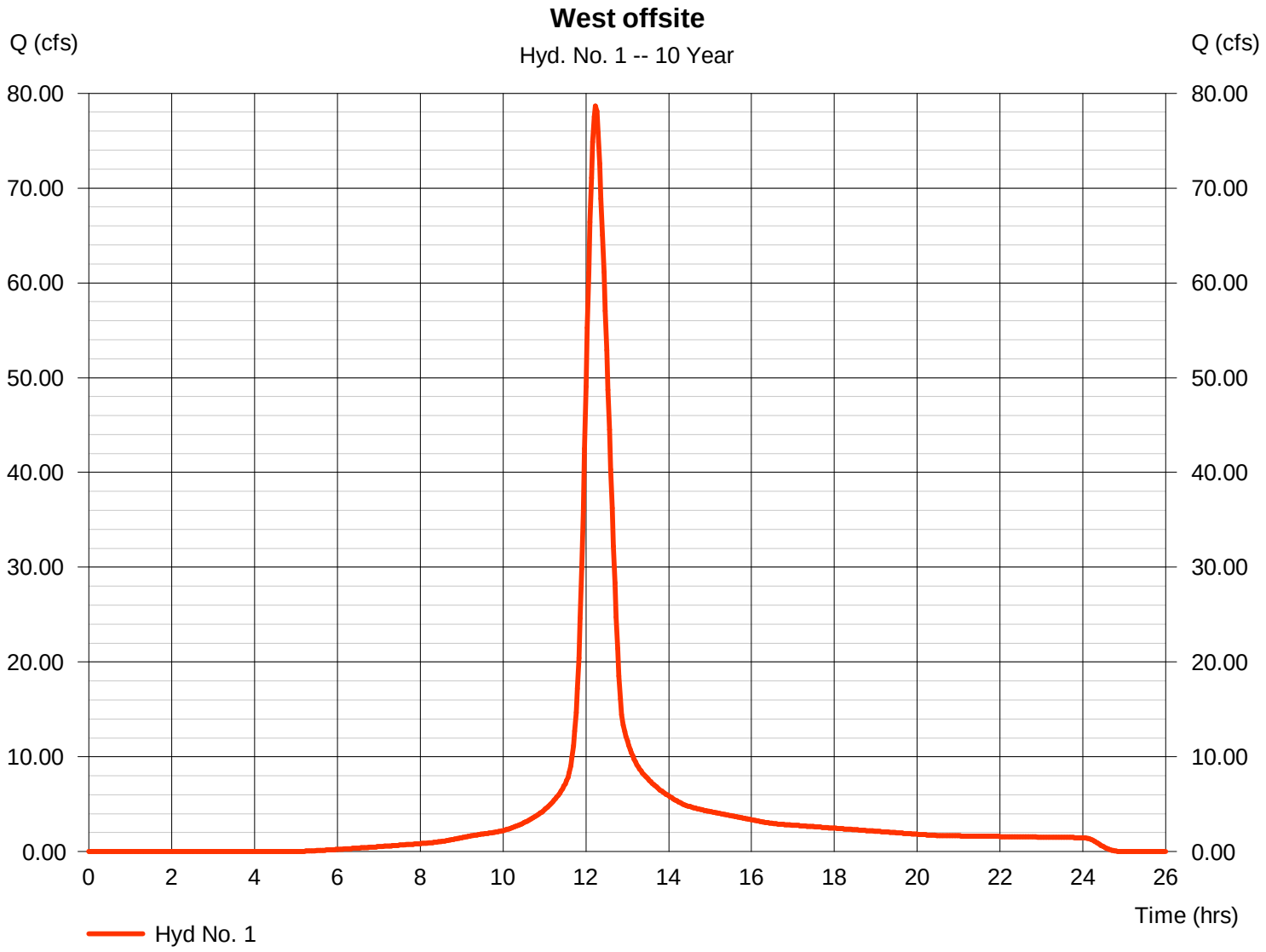
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	78.68	2	734	359,901	------	------	------	West offsite
2	SCS Runoff	34.13	2	722	100,514	------	------	------	East Offsite
3	SCS Runoff	54.85	2	722	154,540	------	------	------	West High Athletics
4	Combine	147.52	2	724	614,955	1, 2, 3	------	------	to Sed basin
5	Reservoir	0.510	2	958	15,451	4	1291.29	429,728	Sediment Basin Outfall

Hydrograph Report

Hyd. No. 1

West offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	78.68 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.23 hrs
Time interval	=	2 min	Hyd. volume	=	359,901 cuft
Drainage area	=	26.700 ac	Curve number	=	87
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.90 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

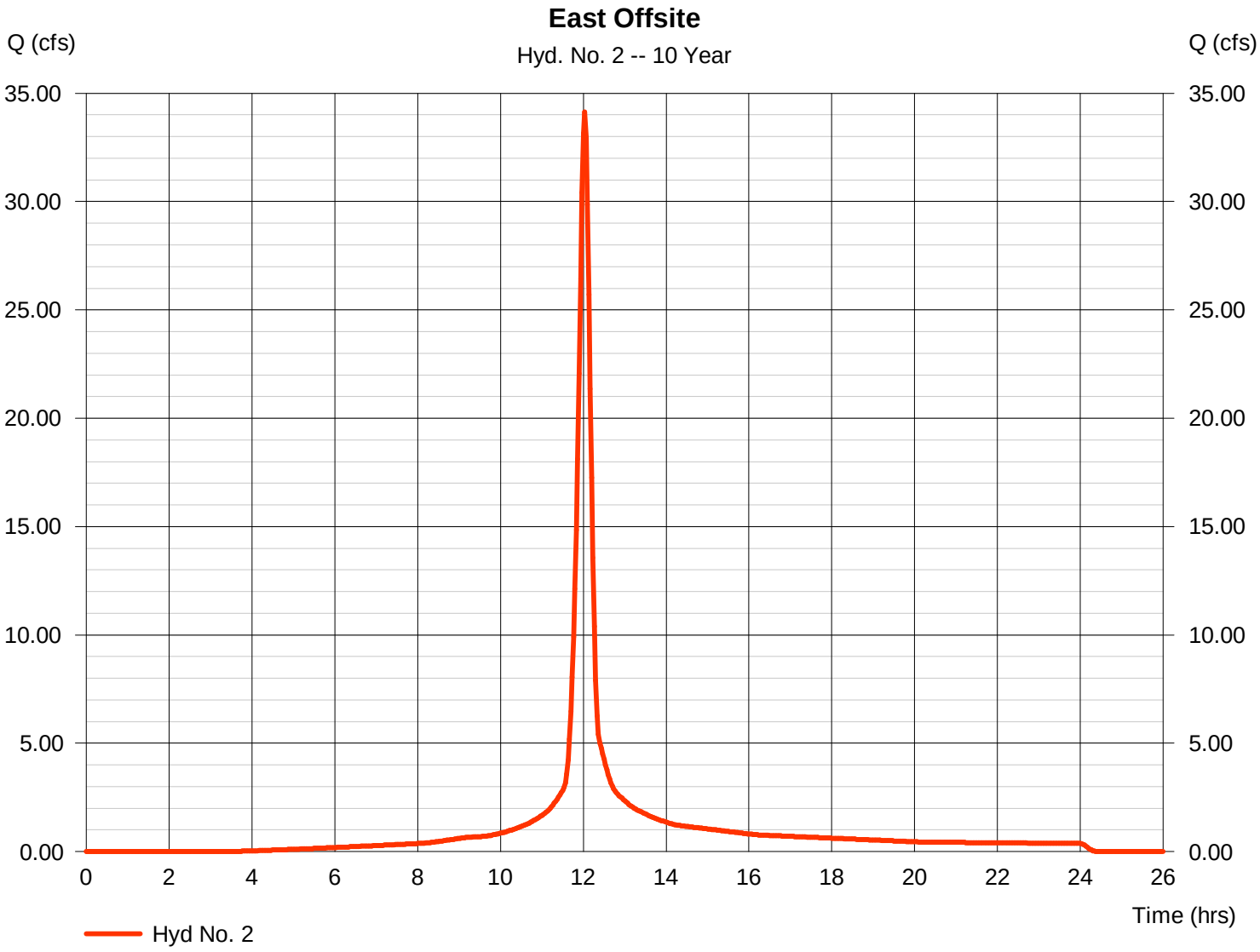


Hydrograph Report

Hyd. No. 2

East Offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	34.13 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	100,514 cuft
Drainage area	=	6.800 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

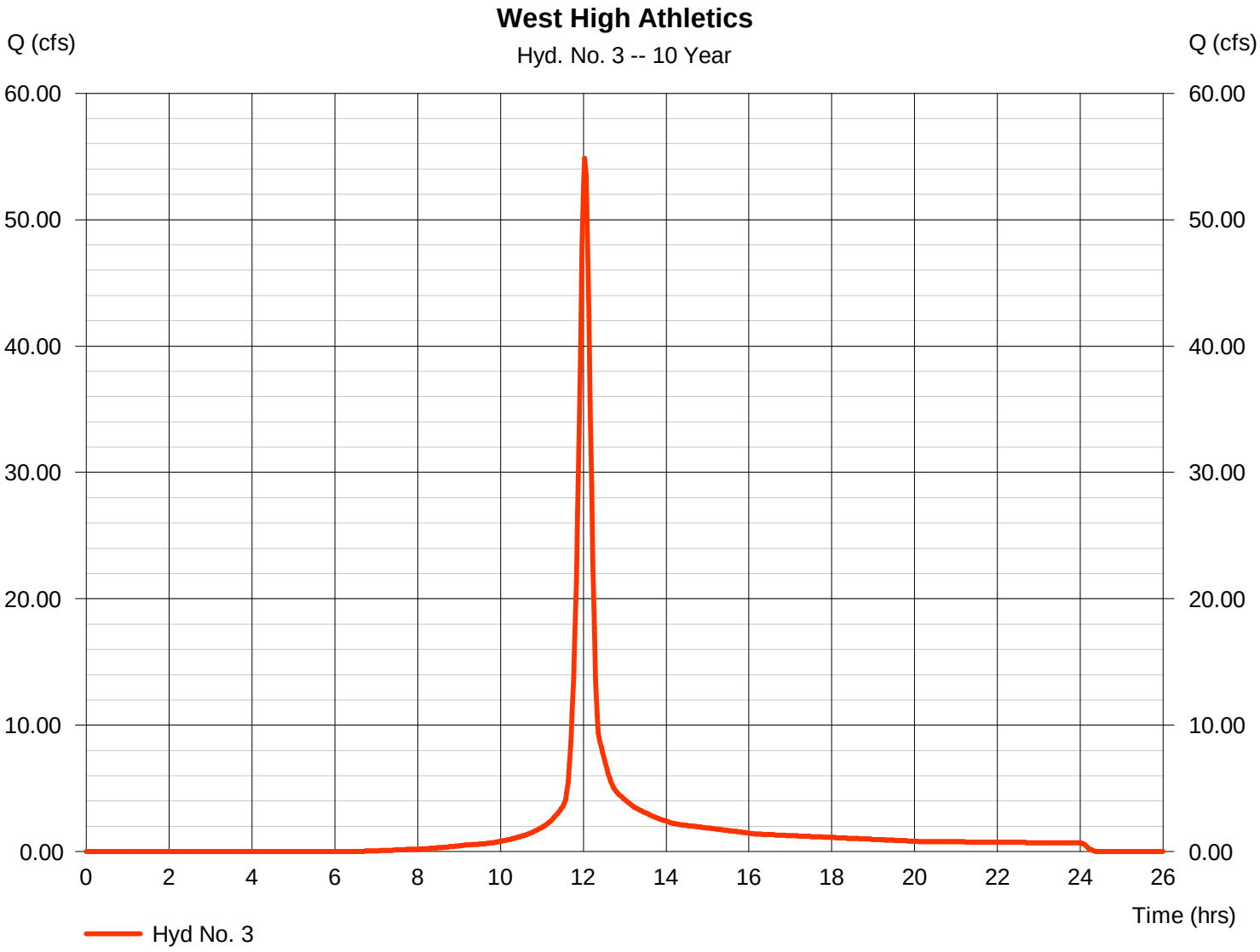


Hydrograph Report

Hyd. No. 3

West High Athletics

Hydrograph type	=	SCS Runoff	Peak discharge	=	54.85 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	154,540 cuft
Drainage area	=	13.400 ac	Curve number	=	82
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

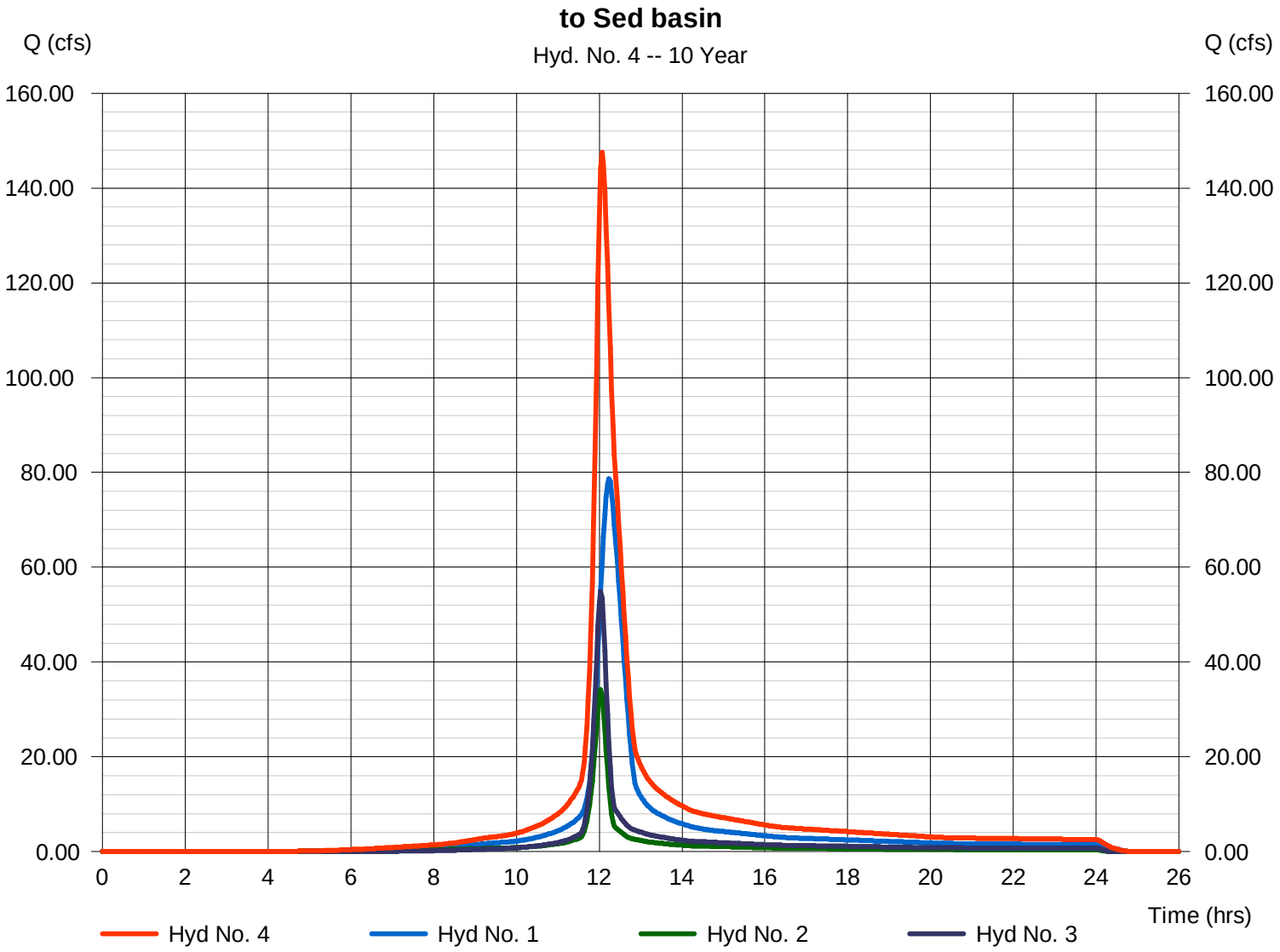


Hydrograph Report

Hyd. No. 4

to Sed basin

Hydrograph type	= Combine	Peak discharge	= 147.52 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 614,955 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 46.900 ac



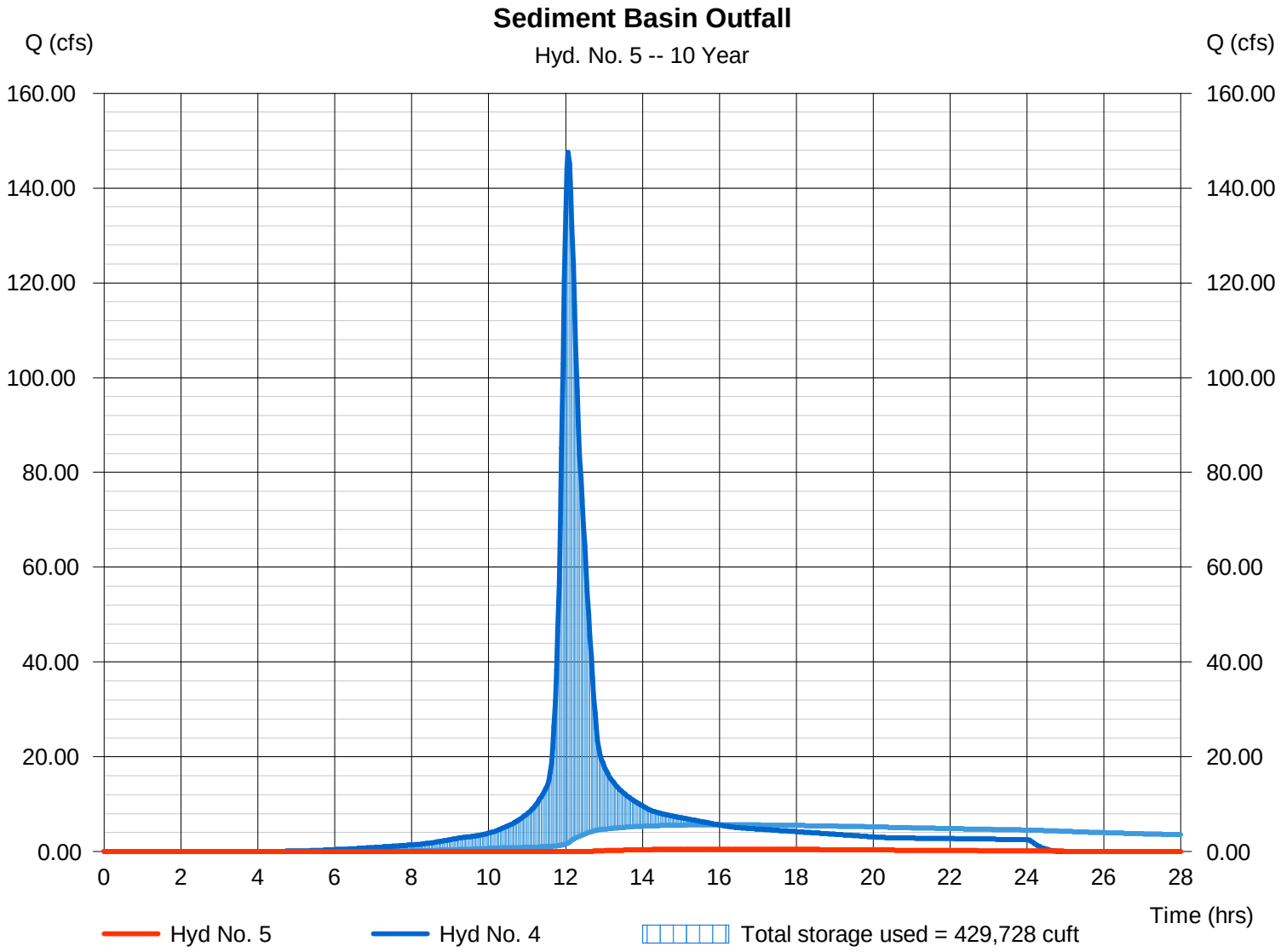
Hydrograph Report

Hyd. No. 5

Sediment Basin Outfall

Hydrograph type	=	Reservoir	Peak discharge	=	0.510 cfs
Storm frequency	=	10 yrs	Time to peak	=	15.97 hrs
Time interval	=	2 min	Hyd. volume	=	15,451 cuft
Inflow hyd. No.	=	4 - to Sed basin	Max. Elevation	=	1291.29 ft
Reservoir name	=	Sediment Basin	Max. Storage	=	429,728 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

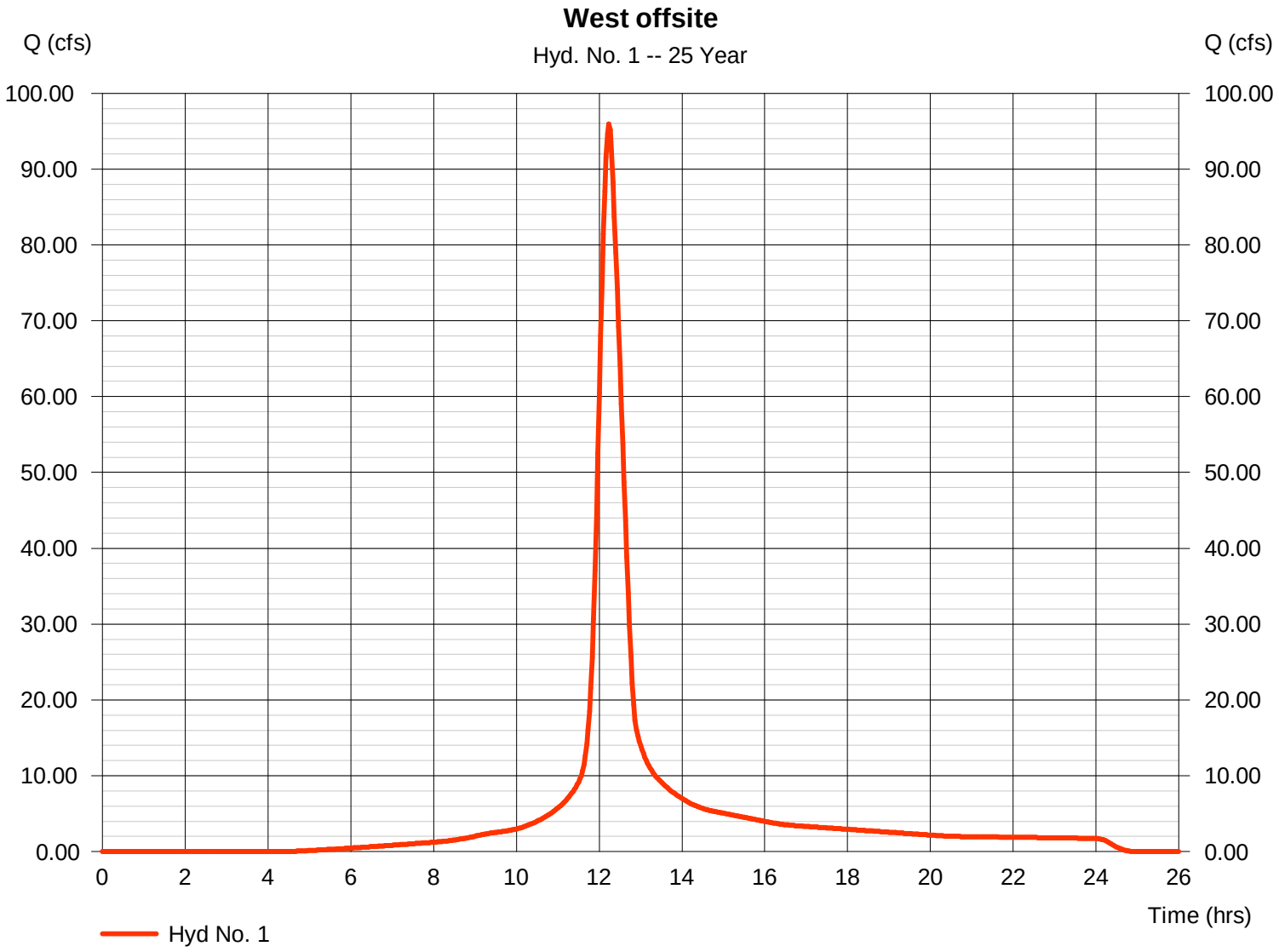
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	95.96	2	734	442,011	------	------	------	West offsite
2	SCS Runoff	40.86	2	722	121,661	------	------	------	East Offsite
3	SCS Runoff	68.23	2	722	193,460	------	------	------	West High Athletics
4	Combine	180.78	2	724	757,133	1, 2, 3	------	------	to Sed basin
5	Reservoir	1.691	2	912	54,750	4	1291.53	517,260	Sediment Basin Outfall

Hydrograph Report

Hyd. No. 1

West offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	95.96 cfs
Storm frequency	=	25 yrs	Time to peak	=	12.23 hrs
Time interval	=	2 min	Hyd. volume	=	442,011 cuft
Drainage area	=	26.700 ac	Curve number	=	87
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.90 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

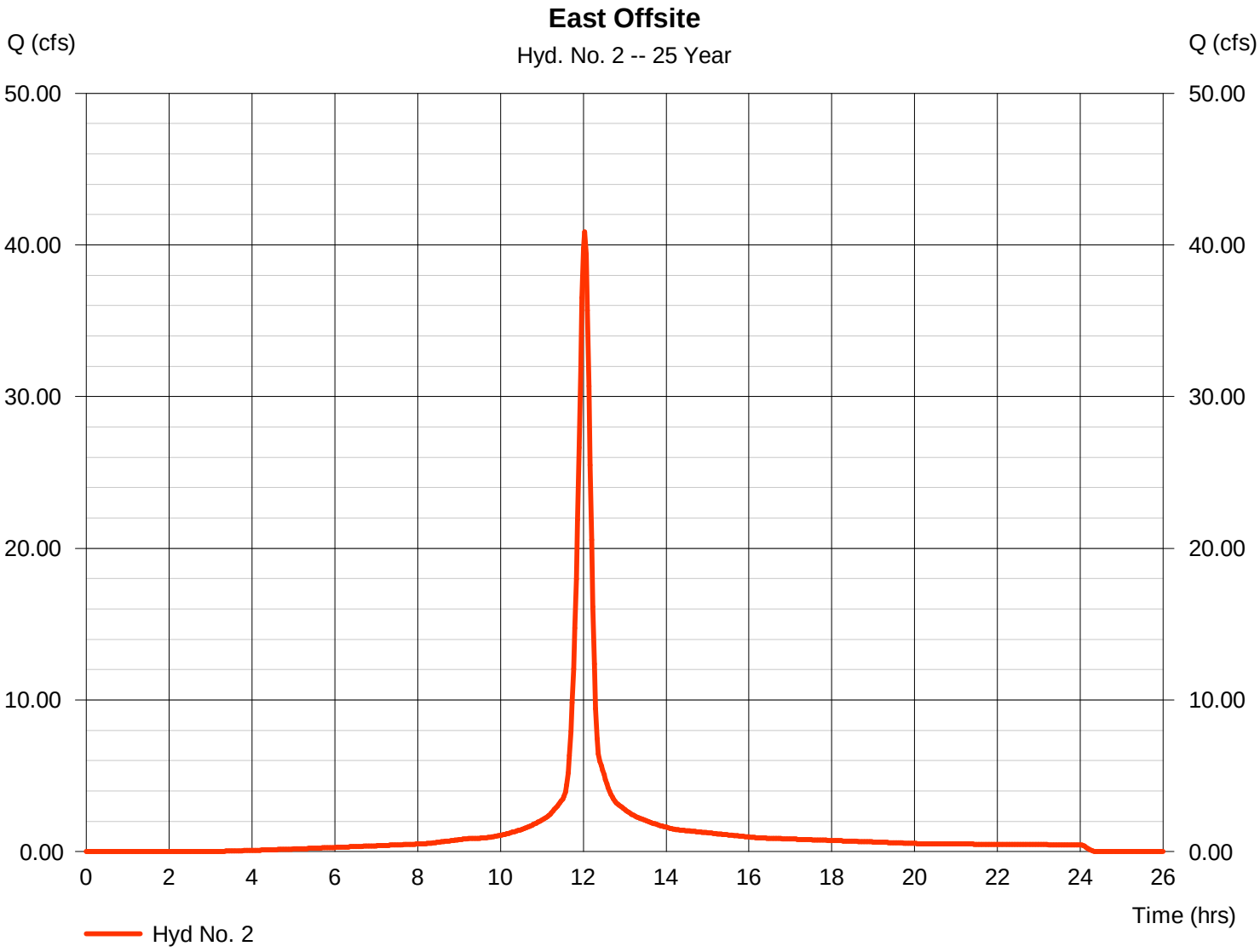


Hydrograph Report

Hyd. No. 2

East Offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	40.86 cfs
Storm frequency	=	25 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	121,661 cuft
Drainage area	=	6.800 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

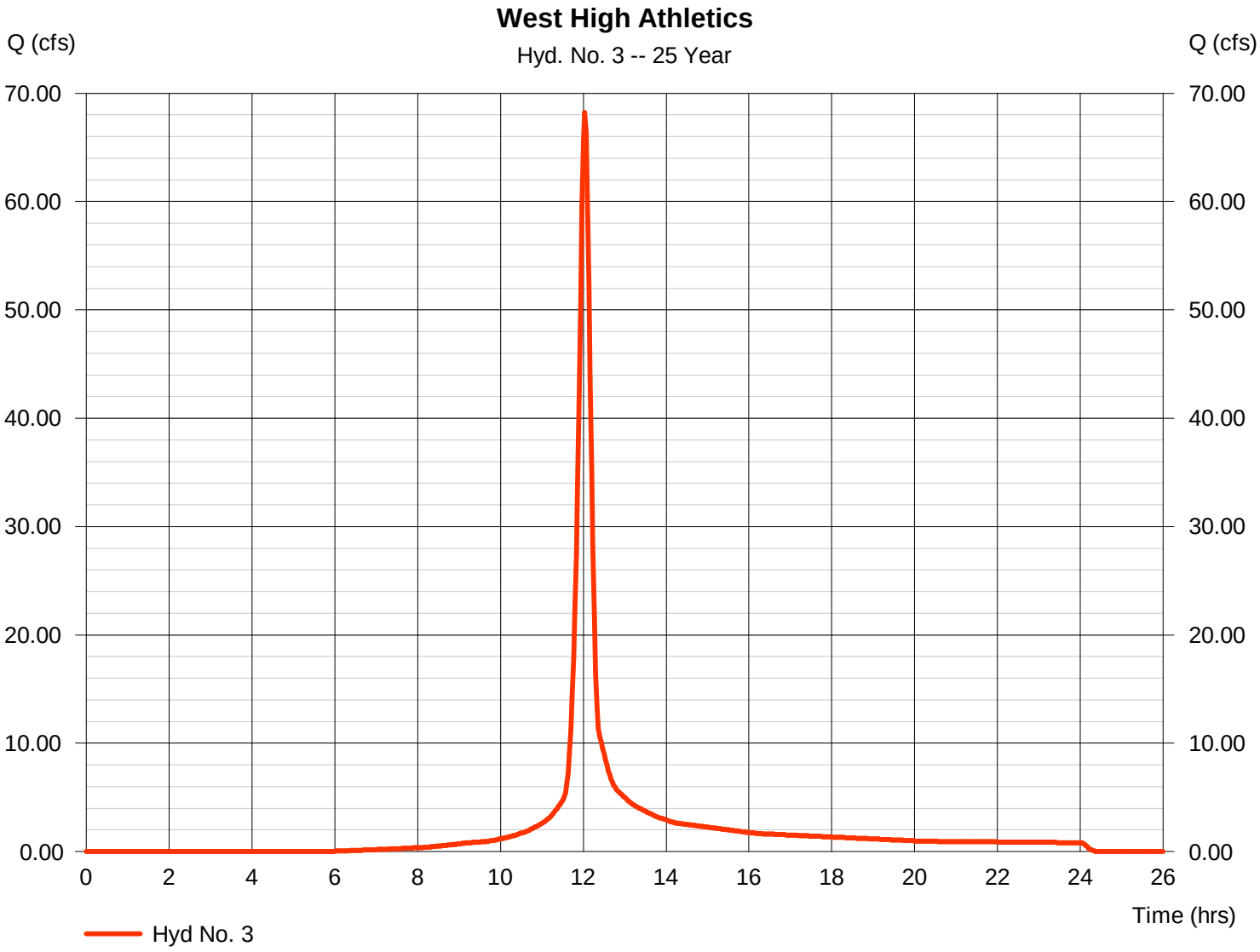


Hydrograph Report

Hyd. No. 3

West High Athletics

Hydrograph type	=	SCS Runoff	Peak discharge	=	68.23 cfs
Storm frequency	=	25 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	193,460 cuft
Drainage area	=	13.400 ac	Curve number	=	82
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

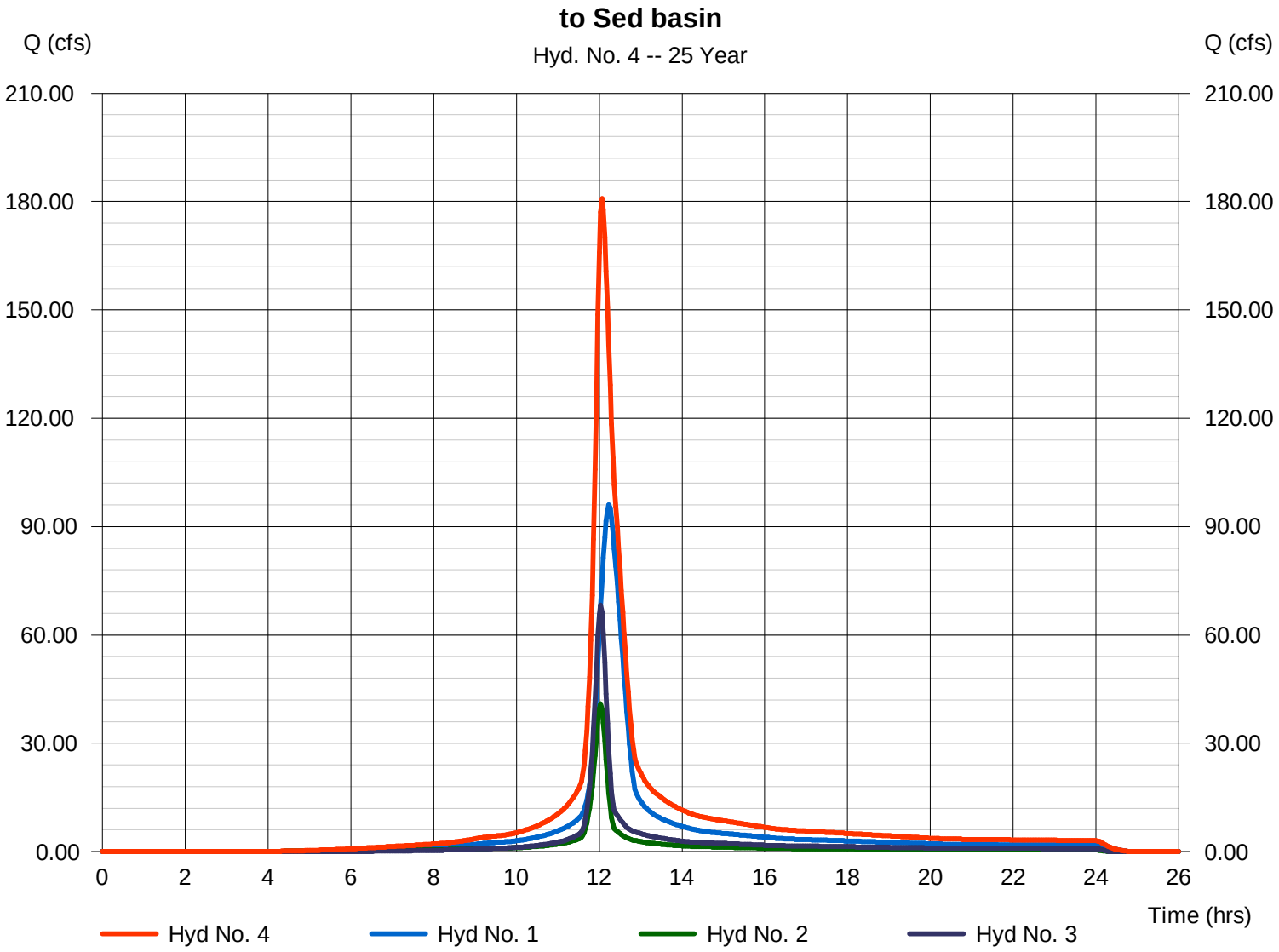


Hydrograph Report

Hyd. No. 4

to Sed basin

Hydrograph type	= Combine	Peak discharge	= 180.78 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 757,133 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 46.900 ac



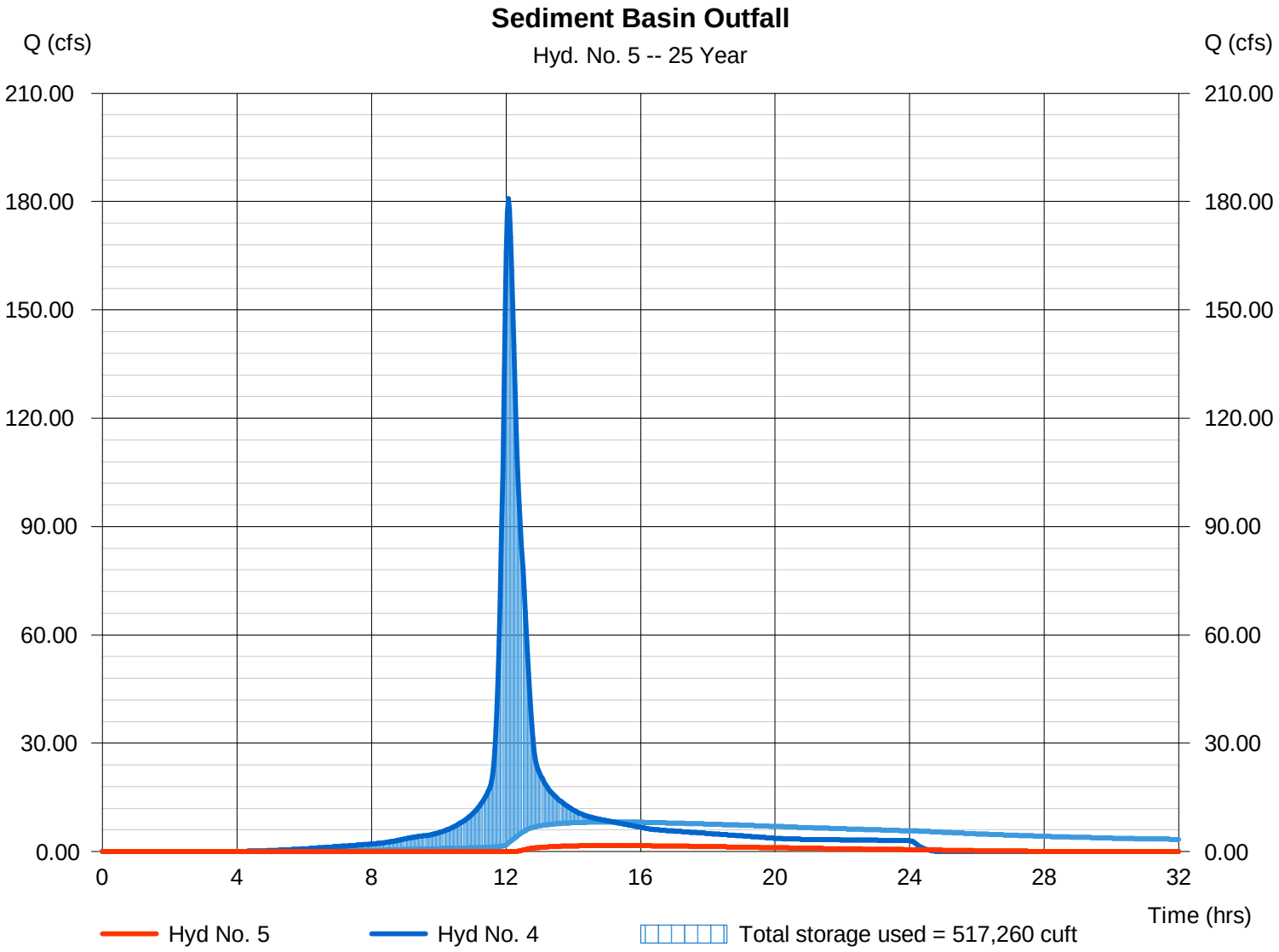
Hydrograph Report

Hyd. No. 5

Sediment Basin Outfall

Hydrograph type	= Reservoir	Peak discharge	= 1.691 cfs
Storm frequency	= 25 yrs	Time to peak	= 15.20 hrs
Time interval	= 2 min	Hyd. volume	= 54,750 cuft
Inflow hyd. No.	= 4 - to Sed basin	Max. Elevation	= 1291.53 ft
Reservoir name	= Sediment Basin	Max. Storage	= 517,260 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

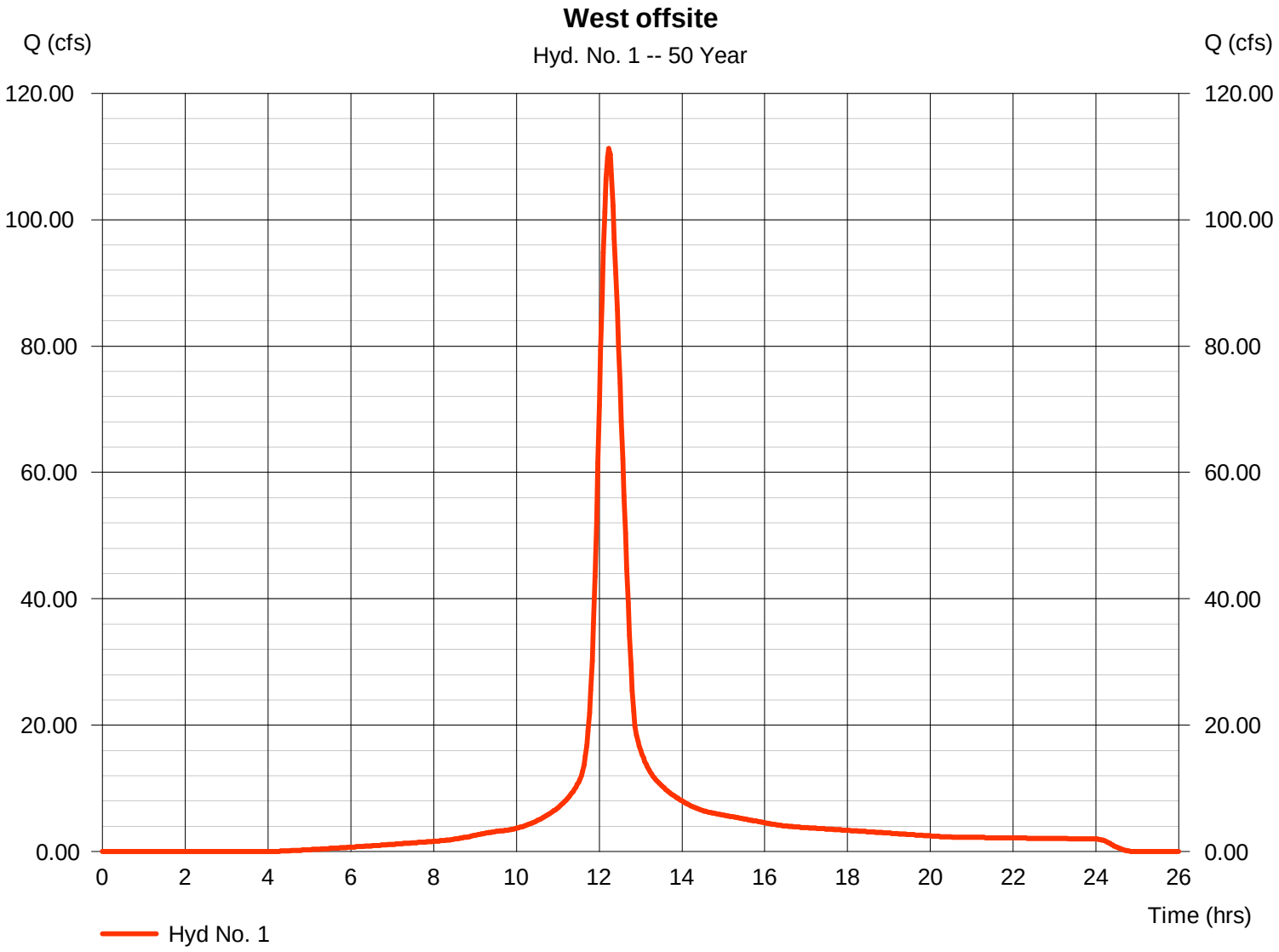
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	111.30	2	734	515,769	------	------	------	West offsite
2	SCS Runoff	46.82	2	722	140,560	------	------	------	East Offsite
3	SCS Runoff	80.17	2	722	228,713	------	------	------	West High Athletics
4	Combine	210.35	2	724	885,041	1, 2, 3	------	------	to Sed basin
5	Reservoir	3.217	2	872	104,026	4	1291.75	594,580	Sediment Basin Outfall

Hydrograph Report

Hyd. No. 1

West offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	111.30 cfs
Storm frequency	=	50 yrs	Time to peak	=	12.23 hrs
Time interval	=	2 min	Hyd. volume	=	515,769 cuft
Drainage area	=	26.700 ac	Curve number	=	87
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.90 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

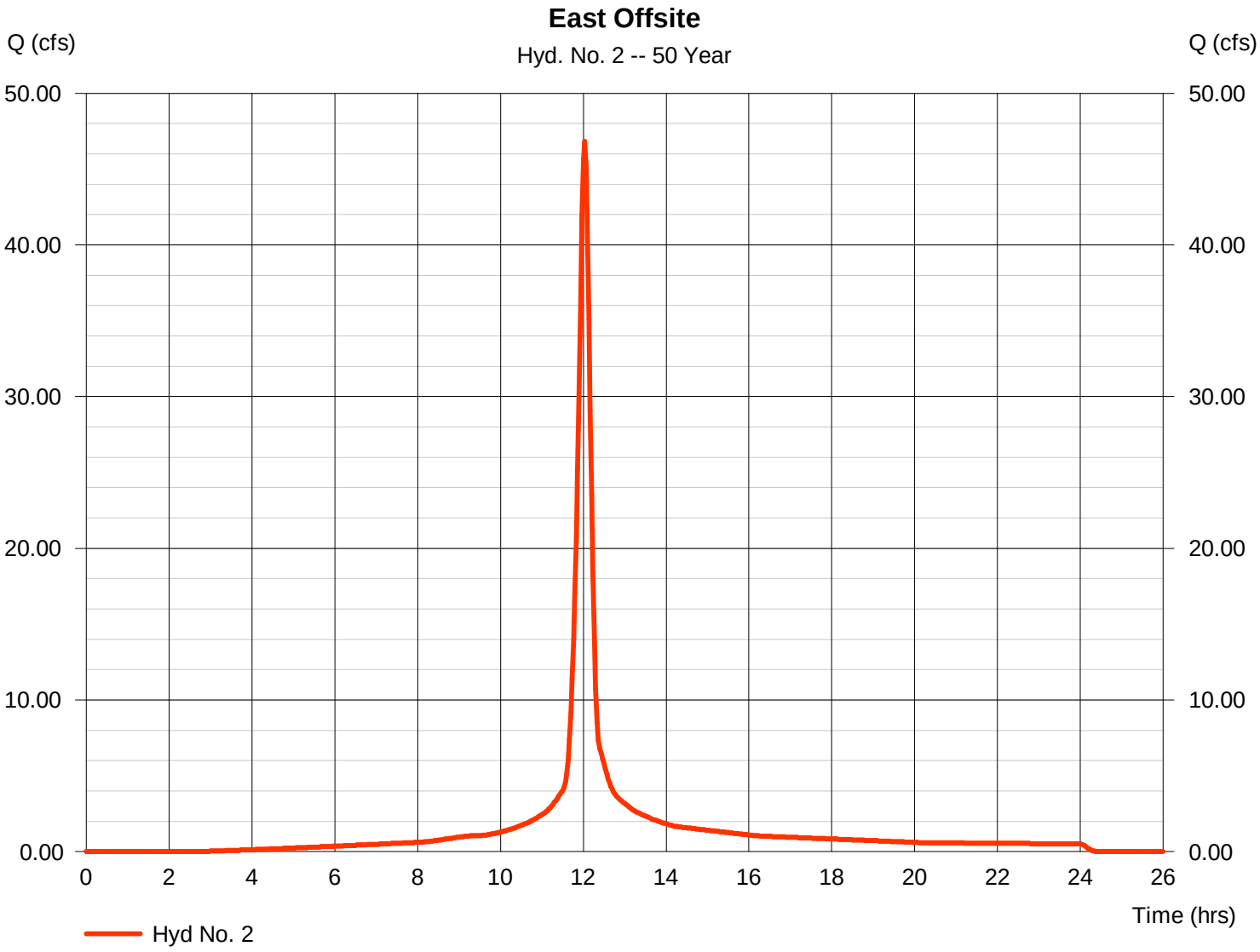


Hydrograph Report

Hyd. No. 2

East Offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	46.82 cfs
Storm frequency	=	50 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	140,560 cuft
Drainage area	=	6.800 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

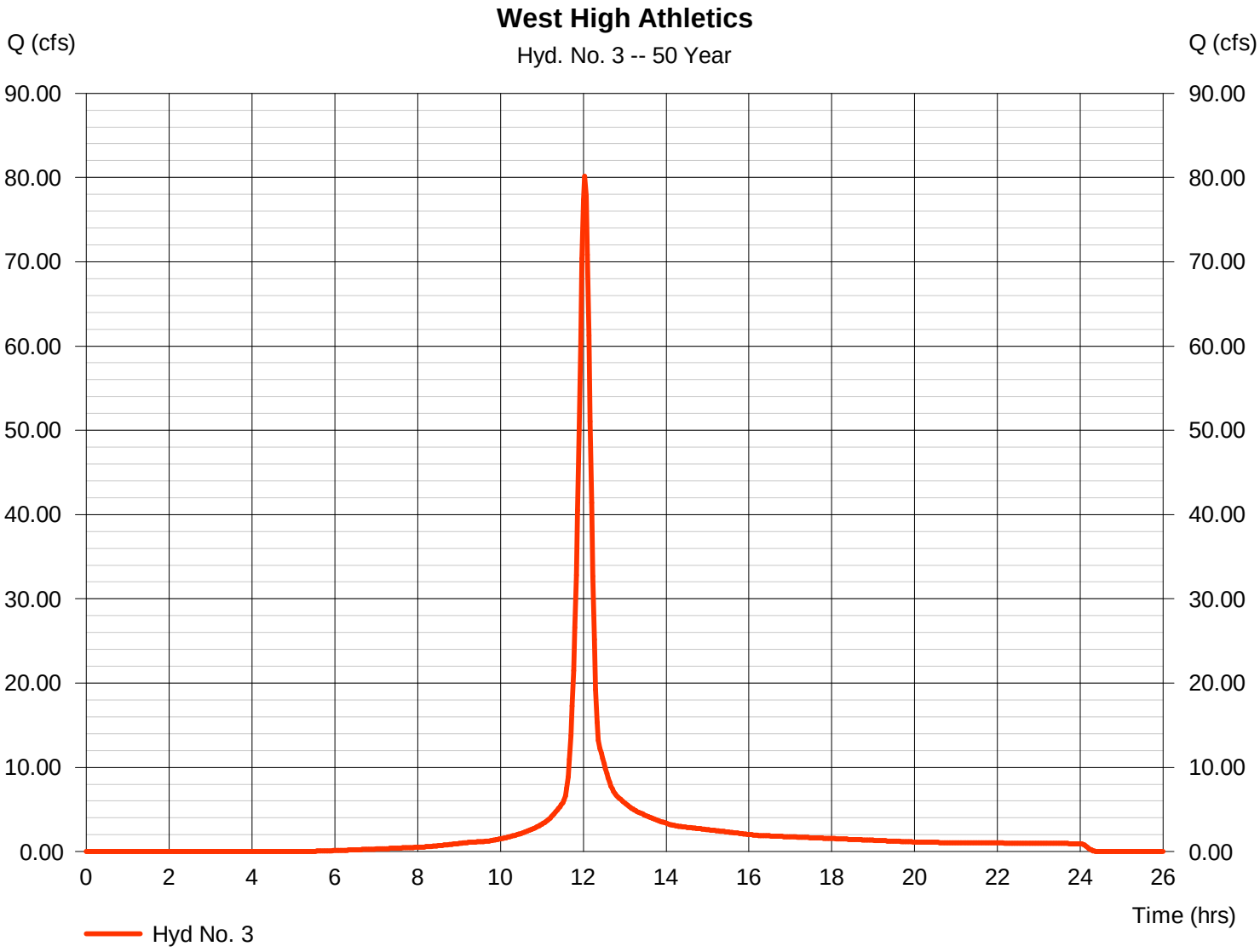


Hydrograph Report

Hyd. No. 3

West High Athletics

Hydrograph type	=	SCS Runoff	Peak discharge	=	80.17 cfs
Storm frequency	=	50 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	228,713 cuft
Drainage area	=	13.400 ac	Curve number	=	82
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

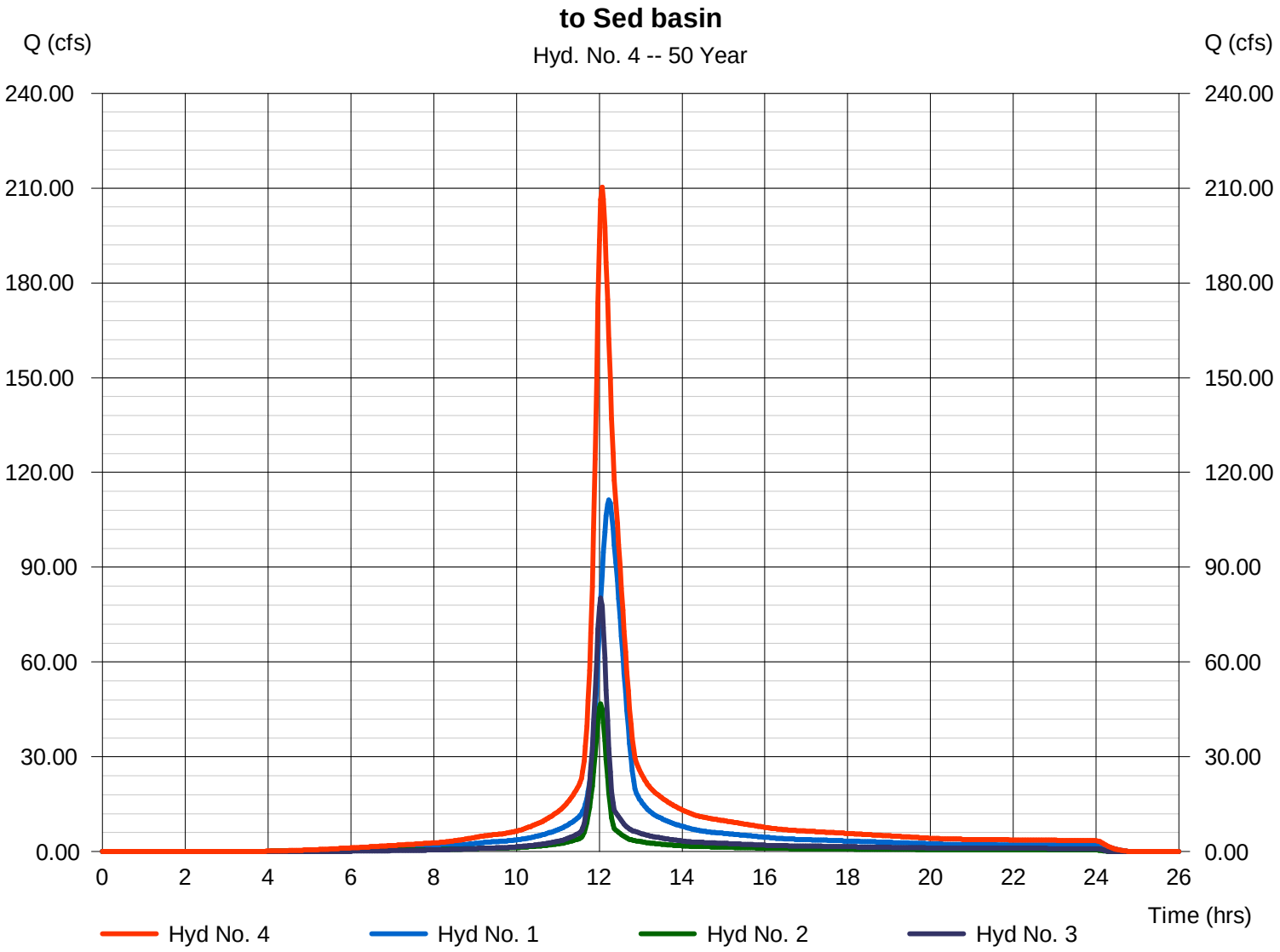


Hydrograph Report

Hyd. No. 4

to Sed basin

Hydrograph type	= Combine	Peak discharge	= 210.35 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 885,041 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 46.900 ac



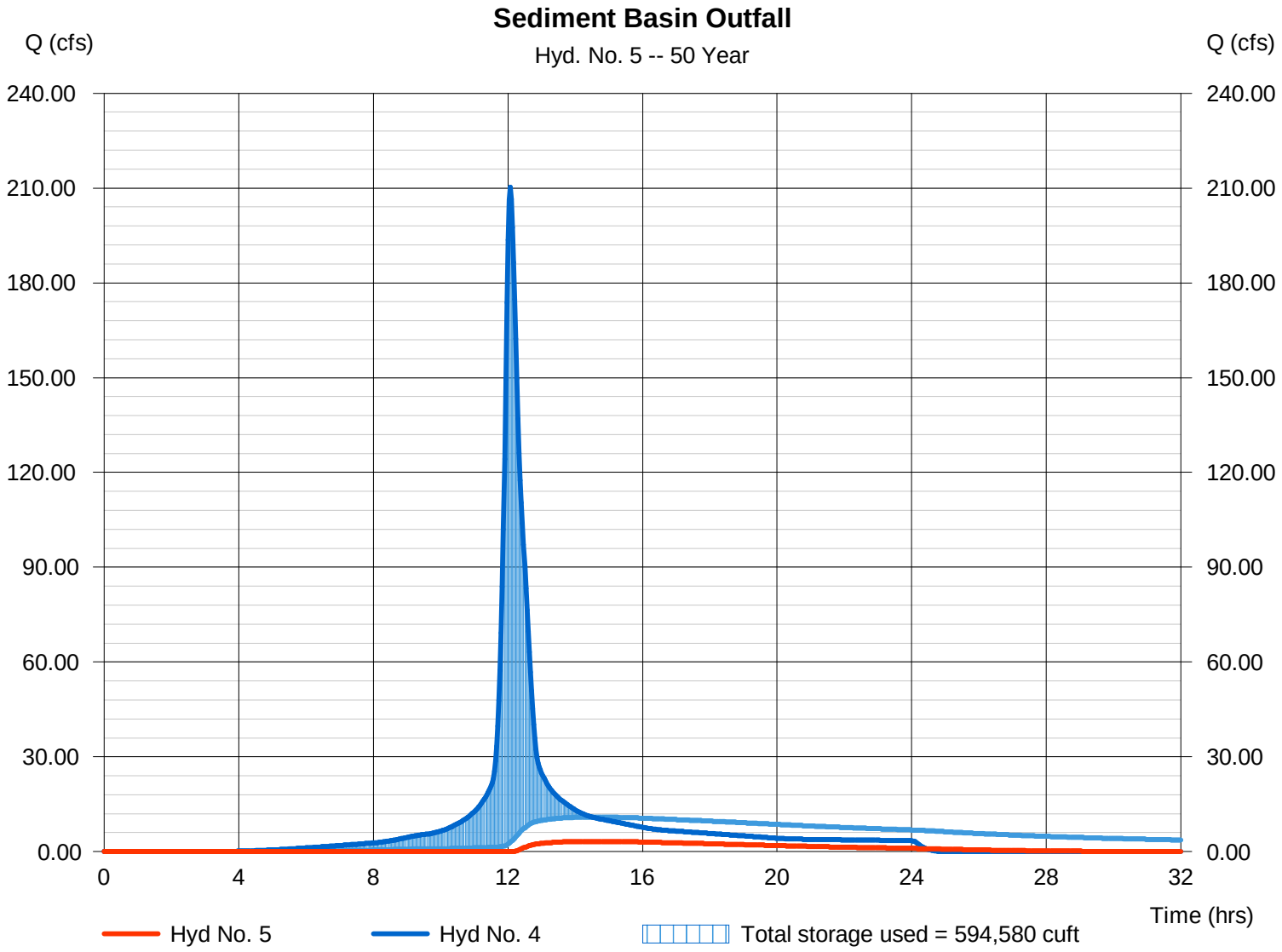
Hydrograph Report

Hyd. No. 5

Sediment Basin Outfall

Hydrograph type	=	Reservoir	Peak discharge	=	3.217 cfs
Storm frequency	=	50 yrs	Time to peak	=	14.53 hrs
Time interval	=	2 min	Hyd. volume	=	104,026 cuft
Inflow hyd. No.	=	4 - to Sed basin	Max. Elevation	=	1291.75 ft
Reservoir name	=	Sediment Basin	Max. Storage	=	594,580 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

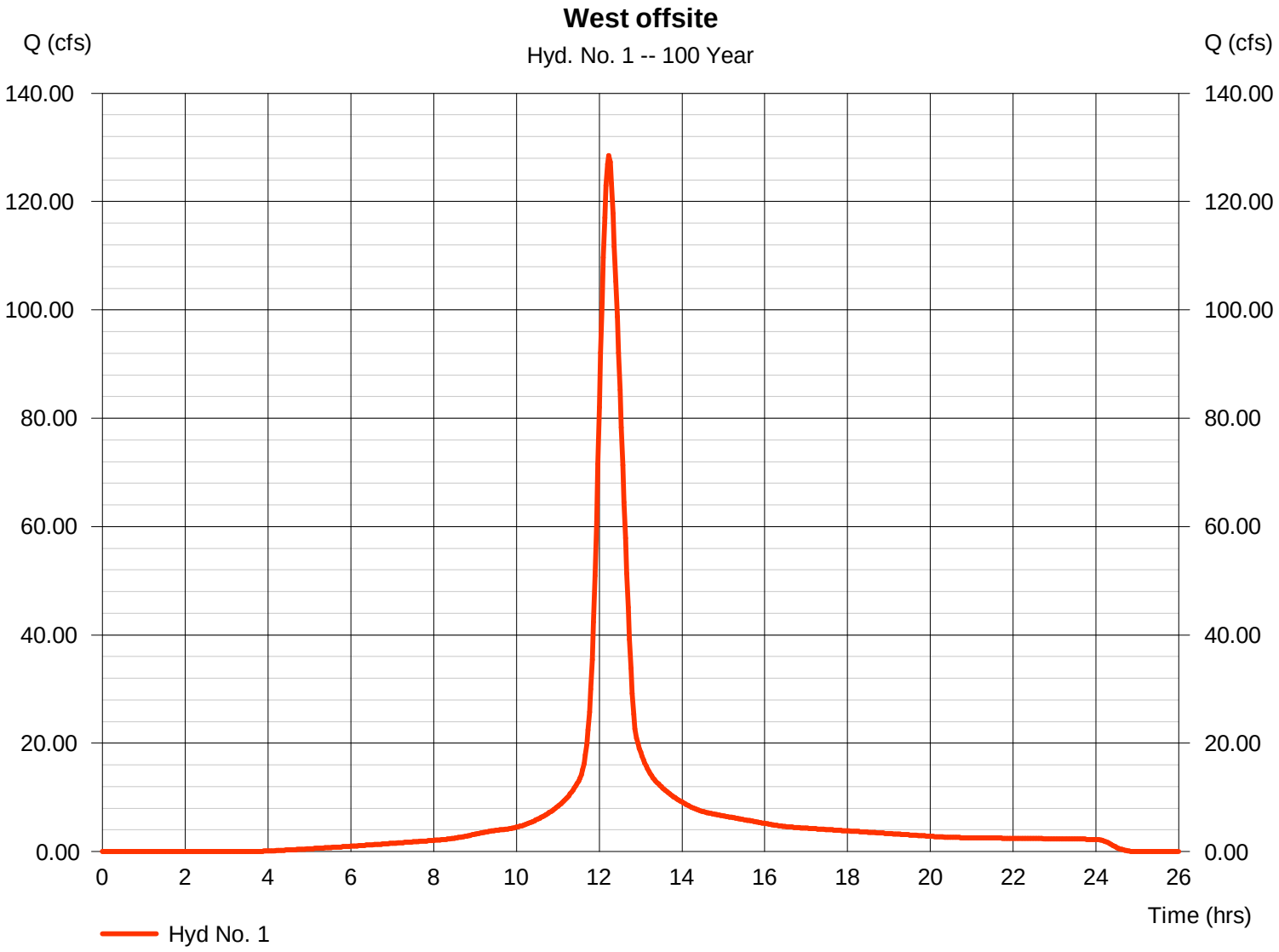
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	128.50	2	734	599,362	------	------	------	West offsite
2	SCS Runoff	53.49	2	722	161,899	------	------	------	East Offsite
3	SCS Runoff	93.62	2	722	268,910	------	------	------	West High Athletics
4	Combine	243.56	2	724	1,030,170	1, 2, 3	------	------	to Sed basin
5	Reservoir	5.376	2	846	170,539	4	1292.00	682,241	Sediment Basin Outfall

Hydrograph Report

Hyd. No. 1

West offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	128.50 cfs
Storm frequency	=	100 yrs	Time to peak	=	12.23 hrs
Time interval	=	2 min	Hyd. volume	=	599,362 cuft
Drainage area	=	26.700 ac	Curve number	=	87
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.90 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

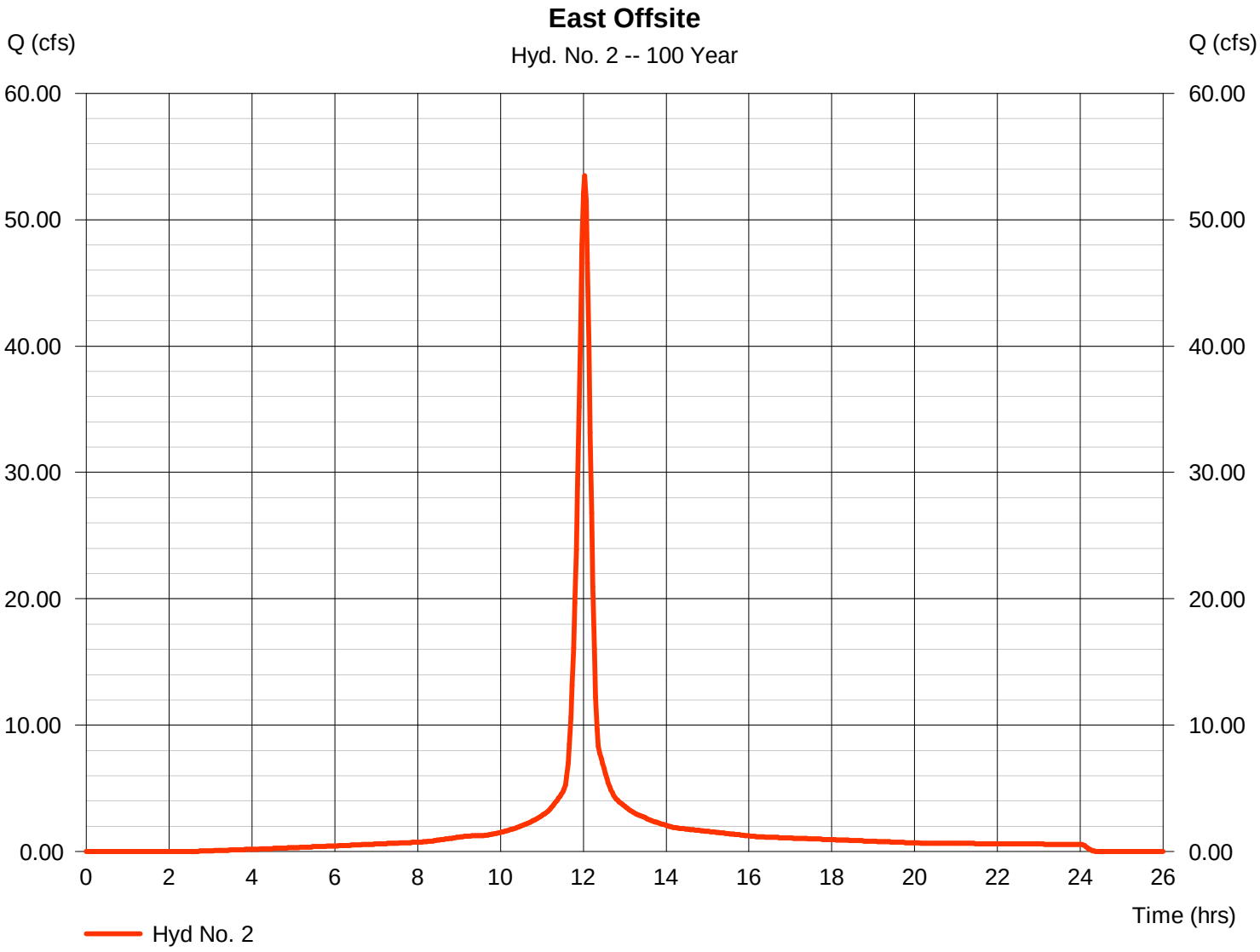


Hydrograph Report

Hyd. No. 2

East Offsite

Hydrograph type	=	SCS Runoff	Peak discharge	=	53.49 cfs
Storm frequency	=	100 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	161,899 cuft
Drainage area	=	6.800 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

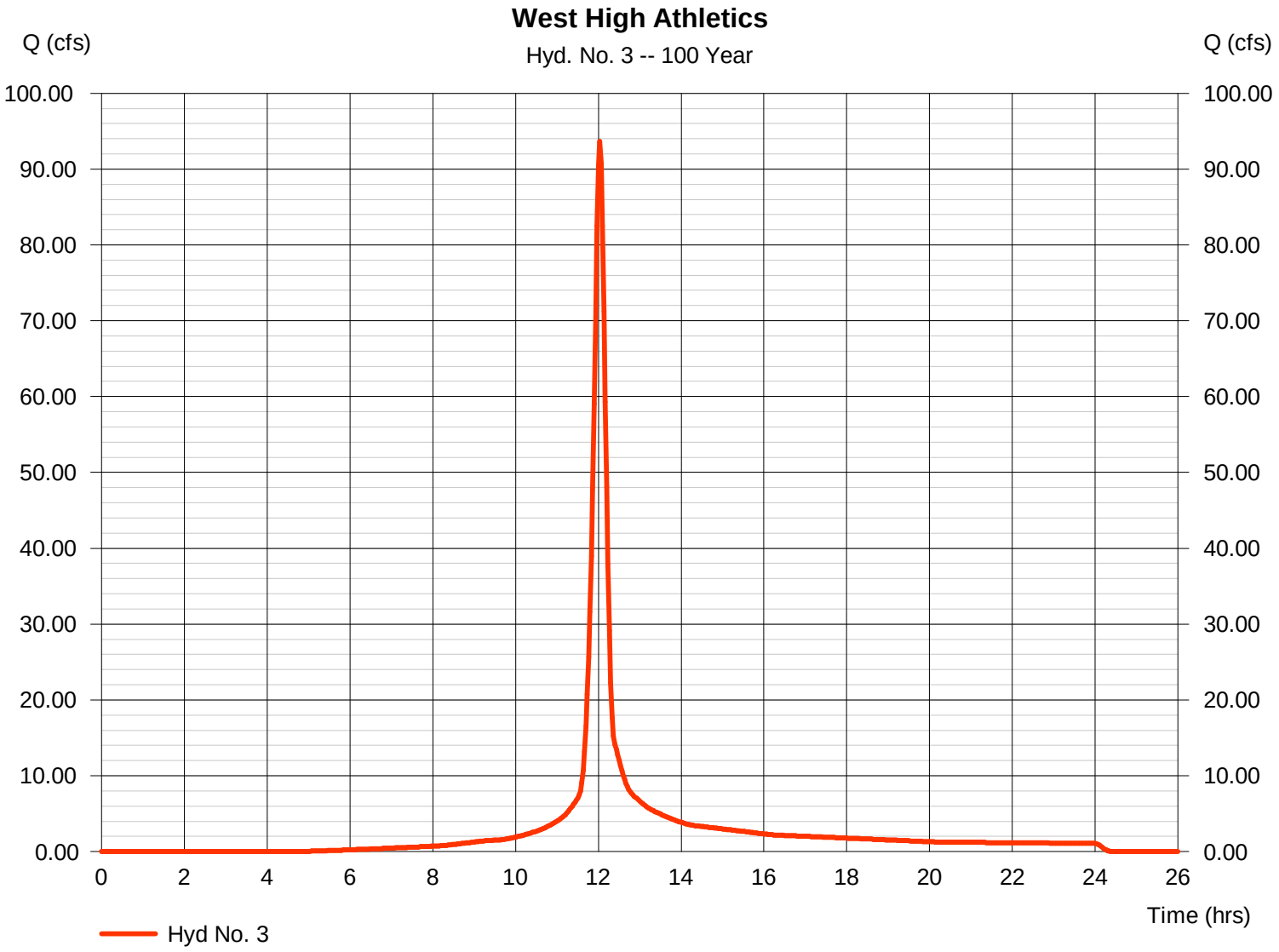


Hydrograph Report

Hyd. No. 3

West High Athletics

Hydrograph type	=	SCS Runoff	Peak discharge	=	93.62 cfs
Storm frequency	=	100 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	268,910 cuft
Drainage area	=	13.400 ac	Curve number	=	82
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

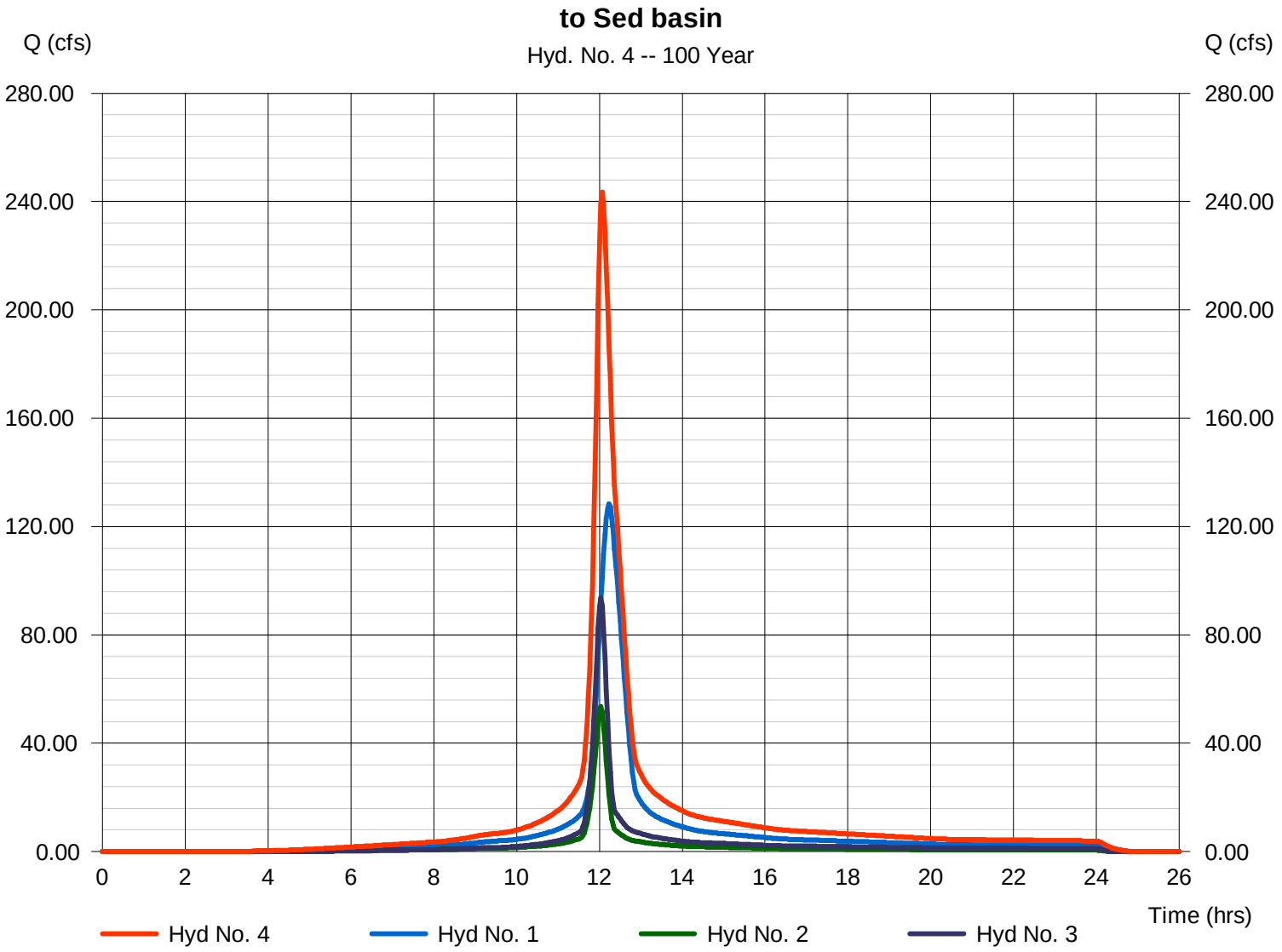


Hydrograph Report

Hyd. No. 4

to Sed basin

Hydrograph type	= Combine	Peak discharge	= 243.56 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 1,030,170 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 46.900 ac



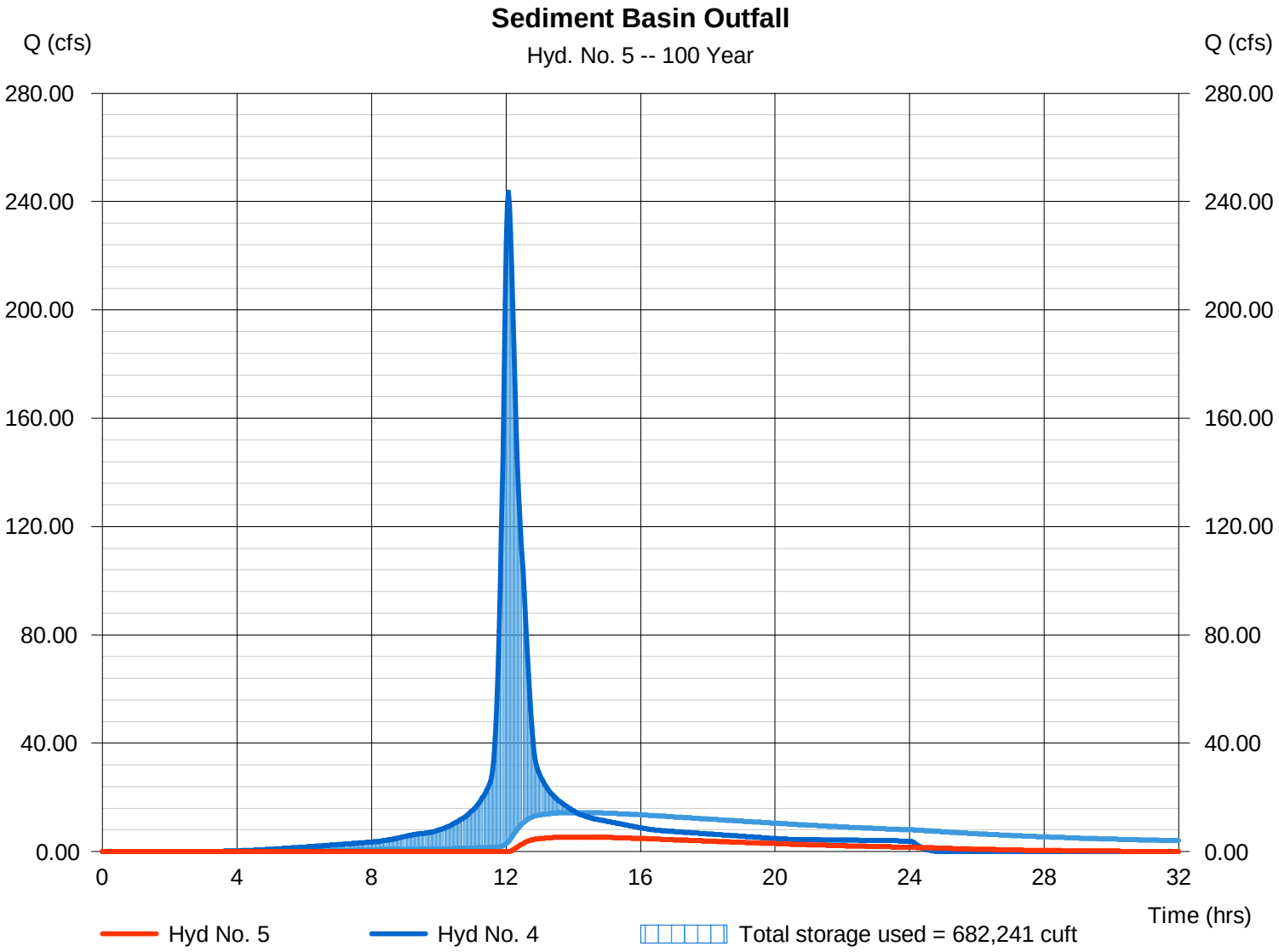
Hydrograph Report

Hyd. No. 5

Sediment Basin Outfall

Hydrograph type	=	Reservoir	Peak discharge	=	5.376 cfs
Storm frequency	=	100 yrs	Time to peak	=	14.10 hrs
Time interval	=	2 min	Hyd. volume	=	170,539 cuft
Inflow hyd. No.	=	4 - to Sed basin	Max. Elevation	=	1292.00 ft
Reservoir name	=	Sediment Basin	Max. Storage	=	682,241 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydraflow Table of Contents

West High Athletics Field.gpw

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10 Wednesday, 11 / 13 / 2013