Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

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	16.00	2	724	60,390	------	------	------	EX-DA 1
2	SCS Runoff	24.81	2	722	66,188	------	------	------	EX-DA2
3	SCS Runoff	30.08	2	726	108,065	------	------	------	EX-DA3
4	SCS Runoff	30.33	2	720	78,657	------	------	------	EX-DA4
5	SCS Runoff	1.919	2	728	12,716	------	------	------	EX-DA5
6	SCS Runoff	8.154	2	720	21,277	------	------	------	EX-DA-Road Widening
7	Combine	105.30	2	722	347,292	1, 2, 3, 4, 5, 6	------	------	EX-TOTAL
8	SCS Runoff	75.45	2	716	172,824	------	------	------	PR-DA-A
9	SCS Runoff	95.35	2	716	218,399	------	------	------	PR-DA-B
10	SCS Runoff	162.91	2	718	389,220	------	------	------	PR-DA-C
11	Reservoir	0.894	2	1112	160,794	8	291.31	133,835	BMP A Routing
12	Reservoir	1.429	2	1004	206,919	9	287.68	159,895	BMP B Routing
13	SCS Runoff	33.49	2	716	67,896	------	------	------	PR-DA-E
14	Reservoir	1.338	2	810	64,137	13	259.31	39,443	BMP E Routing
15	Combine	164.88	2	718	756,932	10, 11, 12,	------	------	BMP C INFLOW
16	Reservoir	7.953	2	830	693,175	15	217.93	270,697	MRC BMP C Routing(DP1)
17	SCS Runoff	11.45	2	718	23,046	------	------	------	PR-BYPASS 1
18	SCS Runoff	3.404	2	720	7,797	------	------	------	PR RG
19	SCS Runoff	0.941	2	722	6,330	------	------	------	PR-BYPASS 2
20	SCS Runoff	4.667	2	718	9,582	------	------	------	PR-BYPASS 3
21	SCS Runoff	9.169	2	718	24,329	------	------	------	PR-Road Widening
22	Combine	13.53	2	718	96,262	14, 18, 21	------	------	BMP E Outflow + PR Road Widening
23	Reservoir	9.117	2	724	83,248	22	233.07	16,503	RG Routing (DP2)
24	Combine	16.55	2	718	38,958	17, 19, 20,	------	------	PR-BYPASS
25	Combine	24.79	2	720	879,518	14, 16, 23, 24	------	------	PROPOSED ENTIRE SITE (POI)
26	Combine	39.60	2	722	126,577	1, 2,	------	------	EX-to- Bushkill
27	Combine	16.12	2	718	32,628	17, 20,	------	------	PR-to-Bushkill
28	Combine	65.70	2	722	220,715	3, 4, 5, 6,	------	------	EX-to-UNT
29	Combine	18.89	2	724	790,550	16, 18, 19, 23,	------	------	PR-to-UNT (DPs 001& 002)

24hours_Sep for LVPC.gpw	Return Period: 10 Year	Wednesday, 01 / 29 / 2025

Hydrograph Report

Hyd. No. 1

EX-DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 16.00 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 60,390 cuft
Drainage area	= 23.790 ac	Curve number	= 54*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 15.20 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(5.640 x 39) + (0.690 x 61) + (8.150 x 77) + (5.640 x 30) + (2.770 x 55) + (0.900 x 74)] / 23.790

EX-DA 1

Hyd. No. 1 -- 10 Year
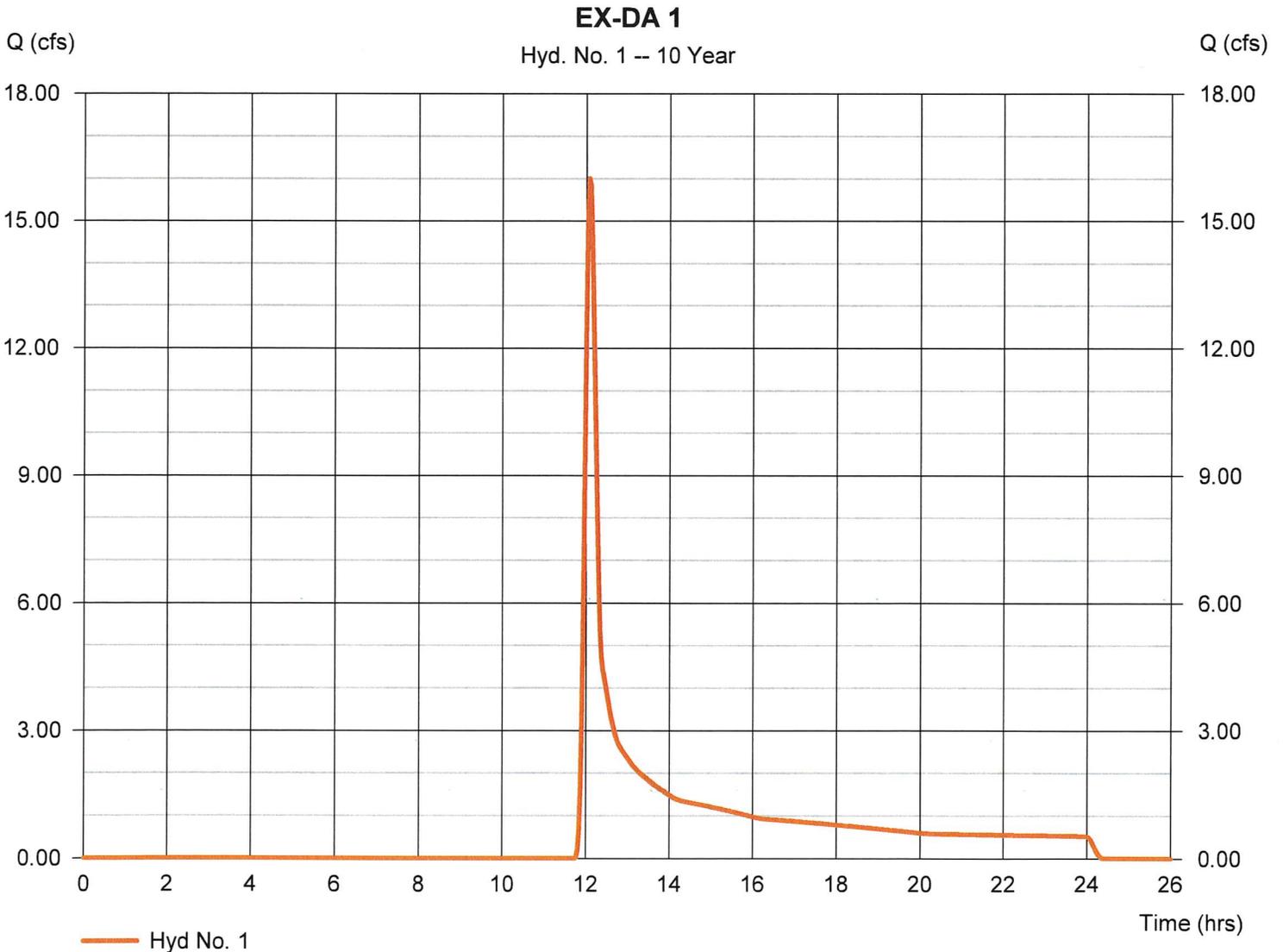
Hydrograph Report

Hyd. No. 2

EX-DA2

Hydrograph type	= SCS Runoff	Peak discharge	= 24.81 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 66,188 cuft
Drainage area	= 11.760 ac	Curve number	= 67*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 13.10 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.060 x 39) + (5.190 x 77) + (1.370 x 30) + (1.600 x 74) + (1.540 x 98)] / 11.760

EX-DA2
Hyd. No. 2 -- 10 Year
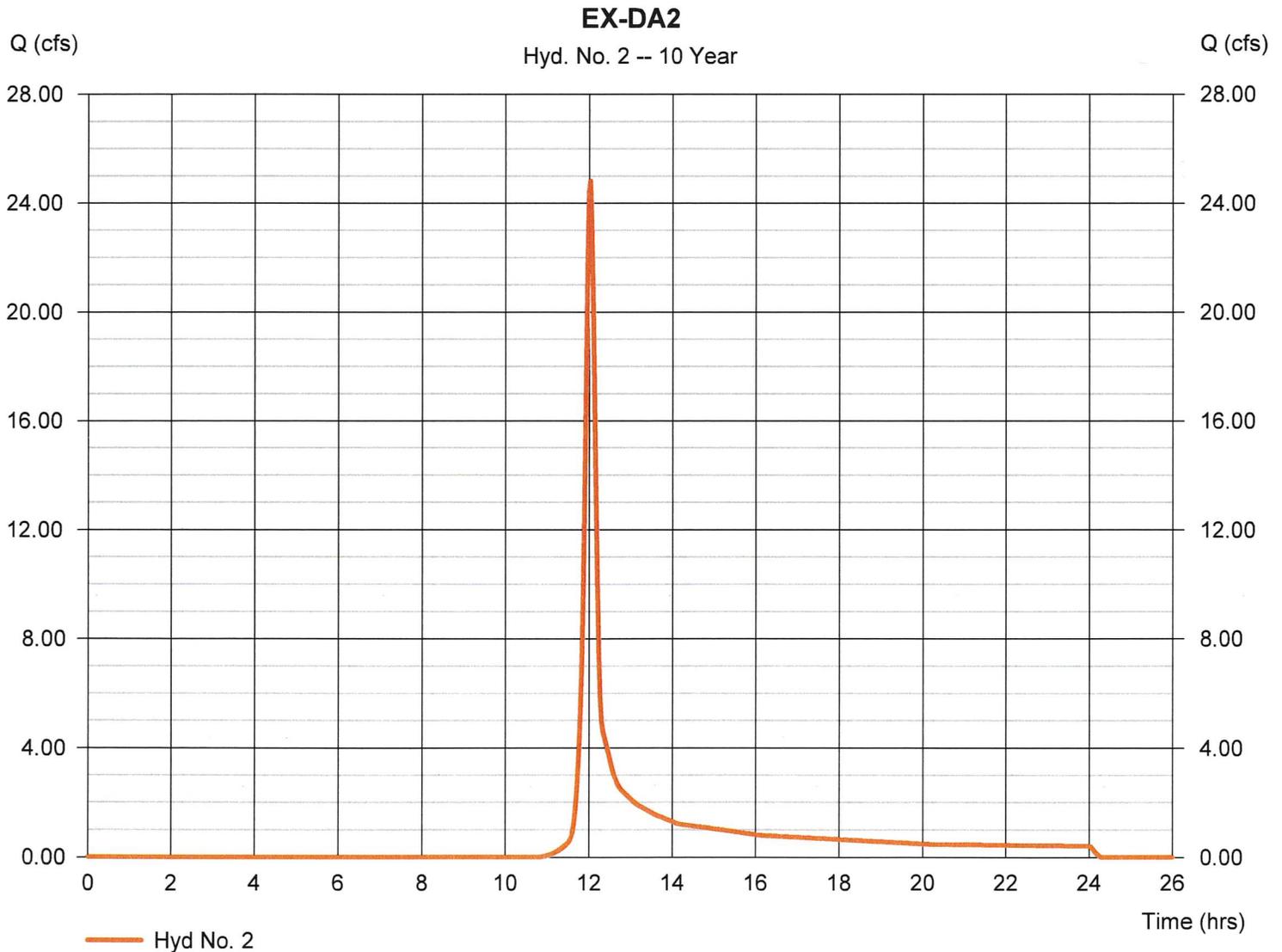
Hyd No. 2

Hydrograph Report

Hyd. No. 3

EX-DA3

Hydrograph type	= SCS Runoff		Peak discharge	= 30.08 cfs
Storm frequency	= 10 yrs		Time to peak	= 12.10 hrs
Time interval	= 2 min		Hyd. volume	= 108,065 cuft
Drainage area	= 28.290 ac		Curve number	= 60*
Basin Slope	= 0.0 %		Hydraulic length	= 0 ft
Tc method	= TR55		Time of conc. (Tc)	= 18.90 min
Total precip.	= 4.56 in		Distribution	= Type II
Storm duration	= 24 hrs		Shape factor	= 484

* Composite (Area/CN) = [(2.920 x 39) + (11.890 x 77) + (0.630 x 61) + (7.210 x 30) + (4.530 x 70) + (1.110 x 98)] / 28.290

EX-DA3
Hyd. No. 3 -- 10 Year
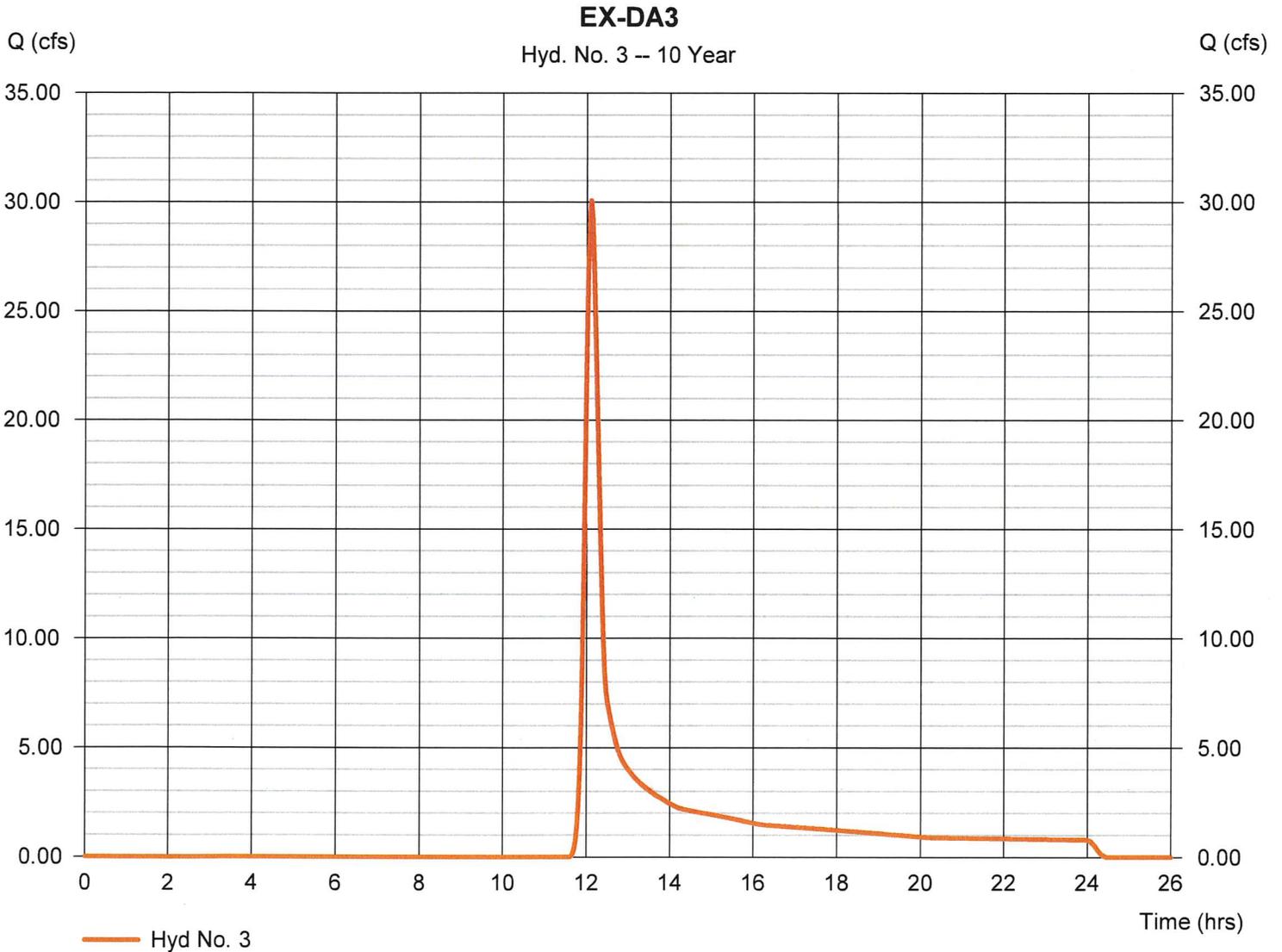
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 4

EX-DA4

Hydrograph type	= SCS Runoff	Peak discharge	= 30.33 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 78,657 cuft
Drainage area	= 8.970 ac	Curve number	= 78*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 11.50 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(8.040 x 77) + (0.420 x 74) + (0.510 x 98)] / 8.970

EX-DA4
Hyd. No. 4 -- 10 Year
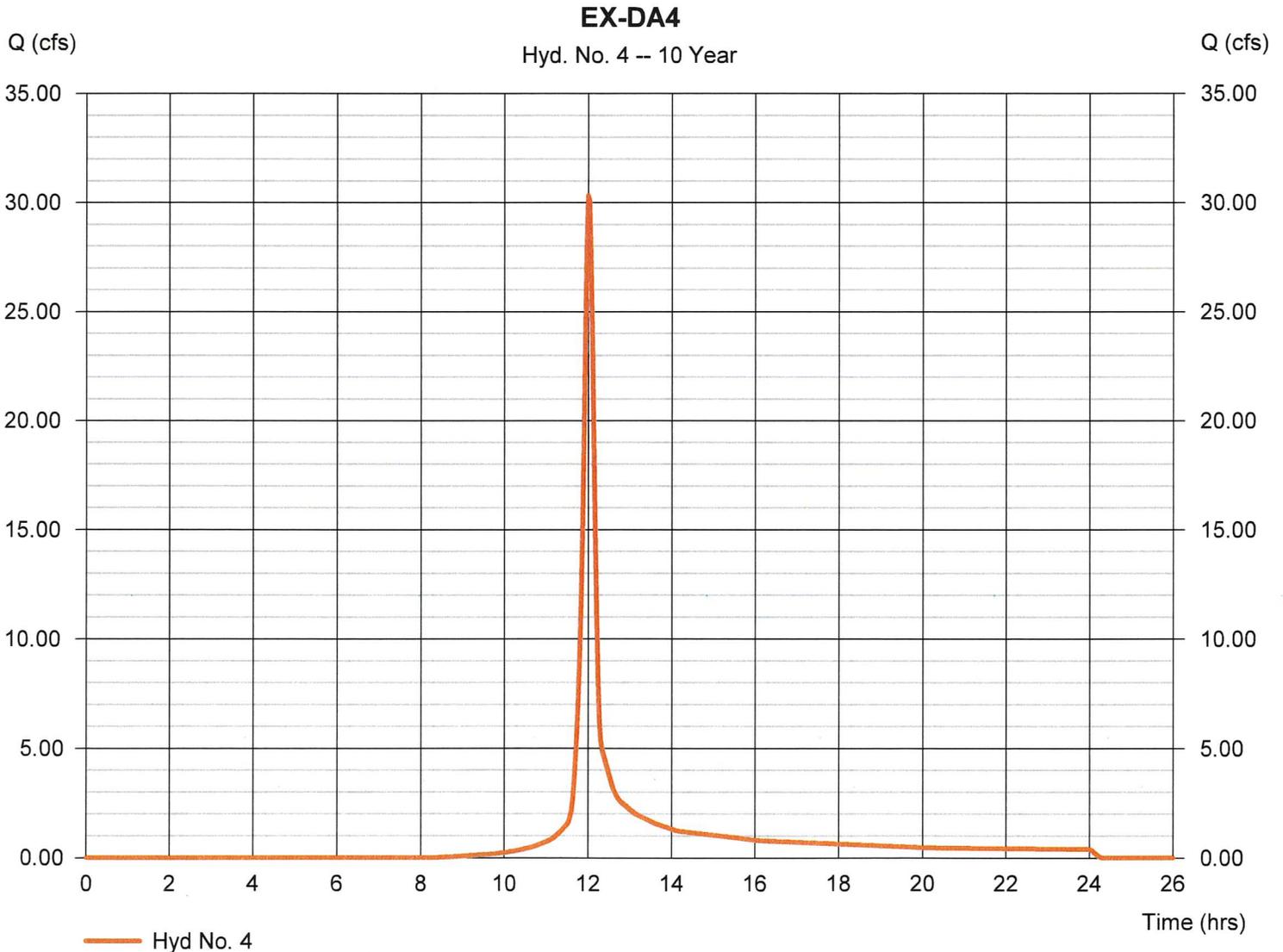
Hyd No. 4

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 5

EX-DA5

Hydrograph type	= SCS Runoff	Peak discharge	= 1.919 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 12,716 cuft
Drainage area	= 8.090 ac	Curve number	= 48*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 17.50 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.910 x 39) + (0.260 x 77) + (0.690 x 61) + (3.640 x 30) + (2.270 x 65) + (0.320 x 98)] / 8.090

EX-DA5
Hyd. No. 5 -- 10 Year
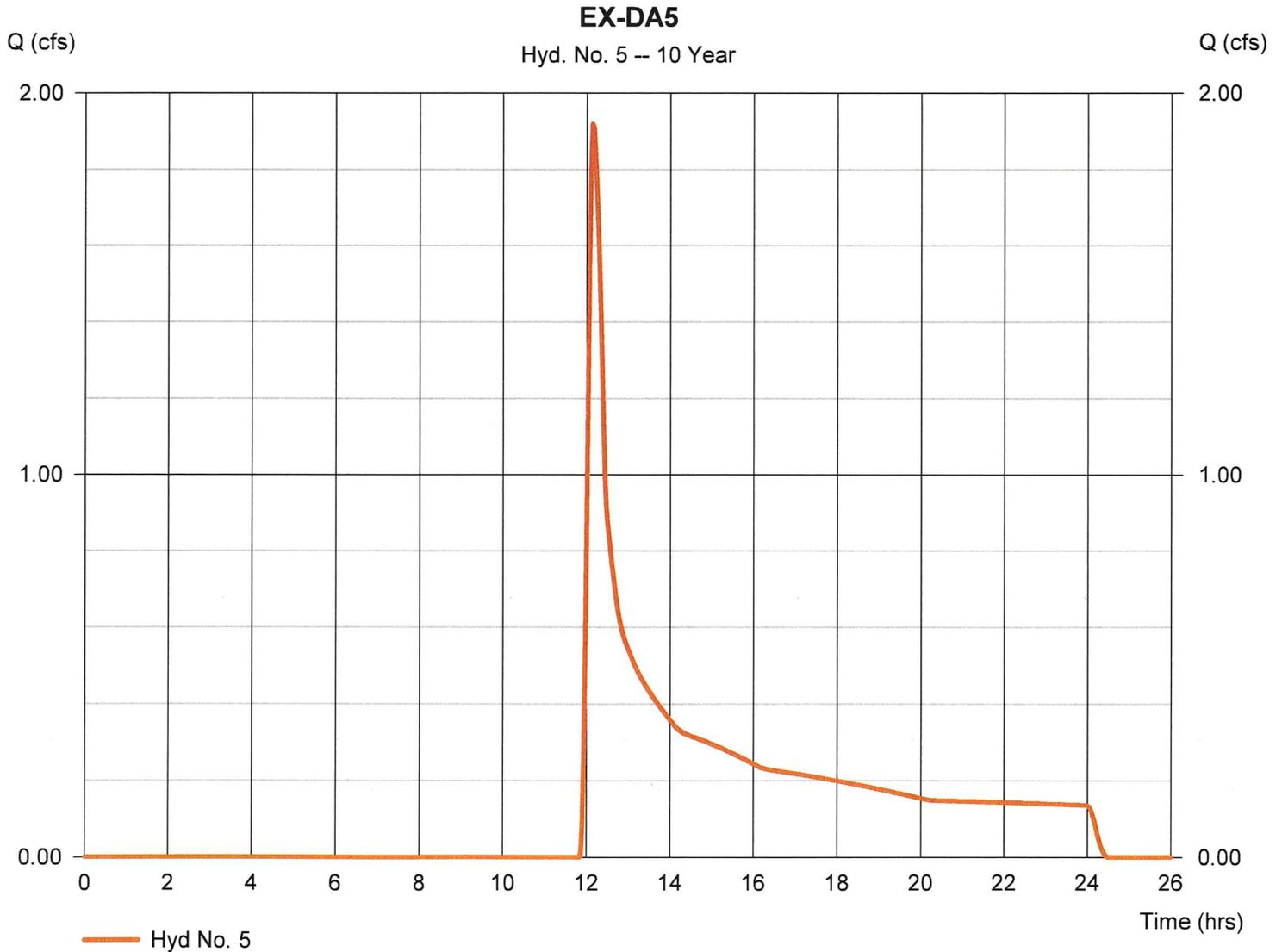
Hyd No. 5

Hydrograph Report

Hyd. No. 6

EX-DA-Road Widening

Hydrograph type	= SCS Runoff	Peak discharge	= 8.154 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 21,277 cuft
Drainage area	= 1.980 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 12.60 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.200 x 77) + (1.000 x 74) + (0.780 x 98)] / 1.980

EX-DA-Road Widening
Hyd. No. 6 -- 10 Year

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 7

EX-TOTAL

Hydrograph type	= Combine	Peak discharge	= 105.30 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 347,292 cuft
Inflow hyds.	= 1, 2, 3, 4, 5, 6	Contrib. drain. area	= 82.880 ac

EX-TOTAL
Hyd. No. 7 -- 10 Year

Legend:
— Hyd No. 7   — Hyd No. 1   — Hyd No. 2   — Hyd No. 3
— Hyd No. 4   — Hyd No. 5   — Hyd No. 6
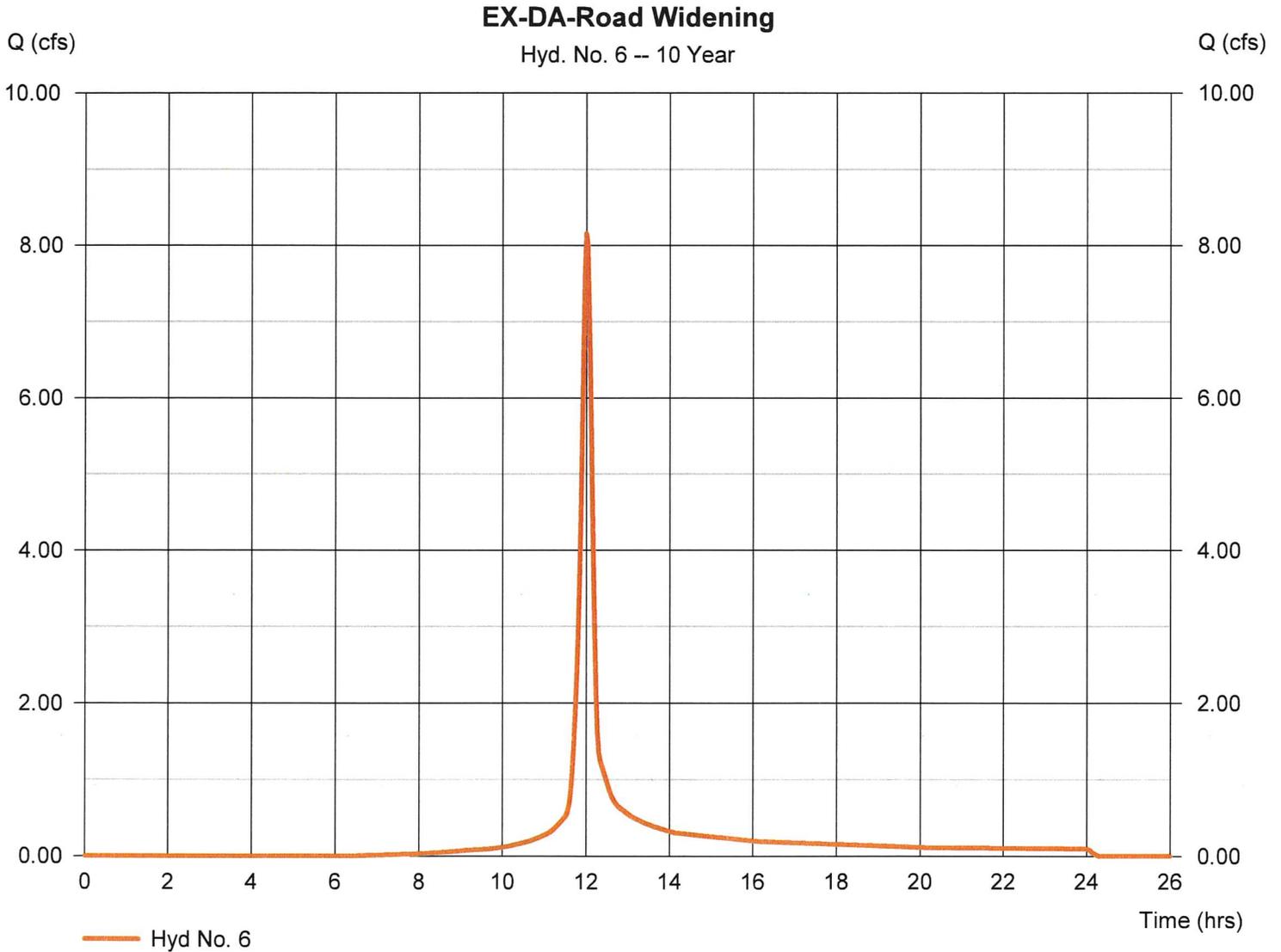
Hydrograph Report

Hyd. No. 8

PR-DA-A

Hydrograph type	= SCS Runoff	Peak discharge	= 75.45 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 172,824 cuft
Drainage area	= 12.400 ac	Curve number	= 96*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 6.30 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.200 x 39) + (0.450 x 80) + (11.750 x 98)] / 12.400

PR-DA-A

Hyd. No. 8 -- 10 Year

Hyd No. 8

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Wednesday, 01 / 29 / 2025
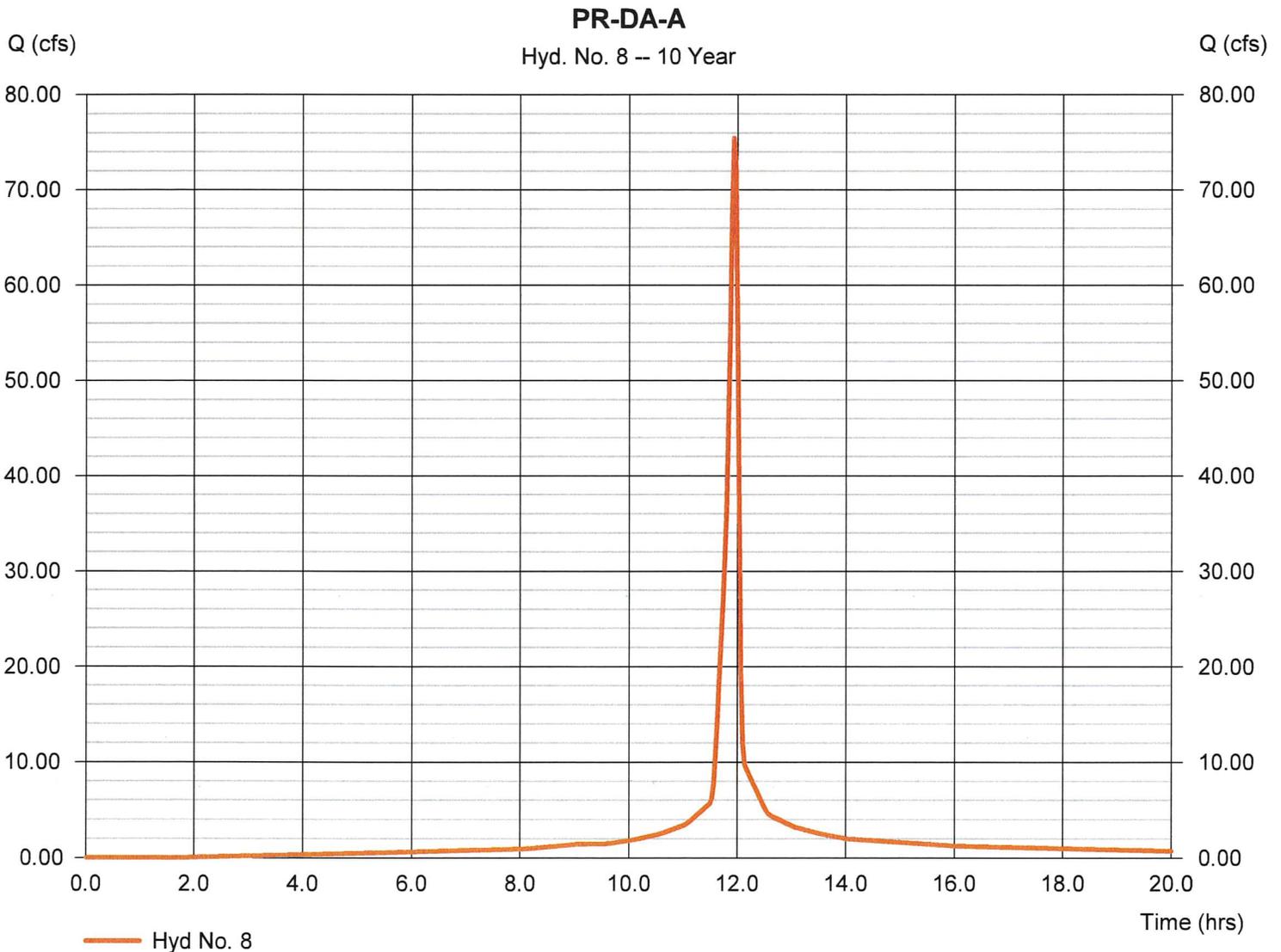
Hyd. No. 9

PR-DA-B

Hydrograph type	= SCS Runoff	Peak discharge	= 95.35 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 218,399 cuft
Drainage area	= 15.670 ac	Curve number	= 96*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.100 x 39) + (1.610 x 80) + (13.960 x 98)] / 15.670

PR-DA-B

Hyd. No. 9 -- 10 Year
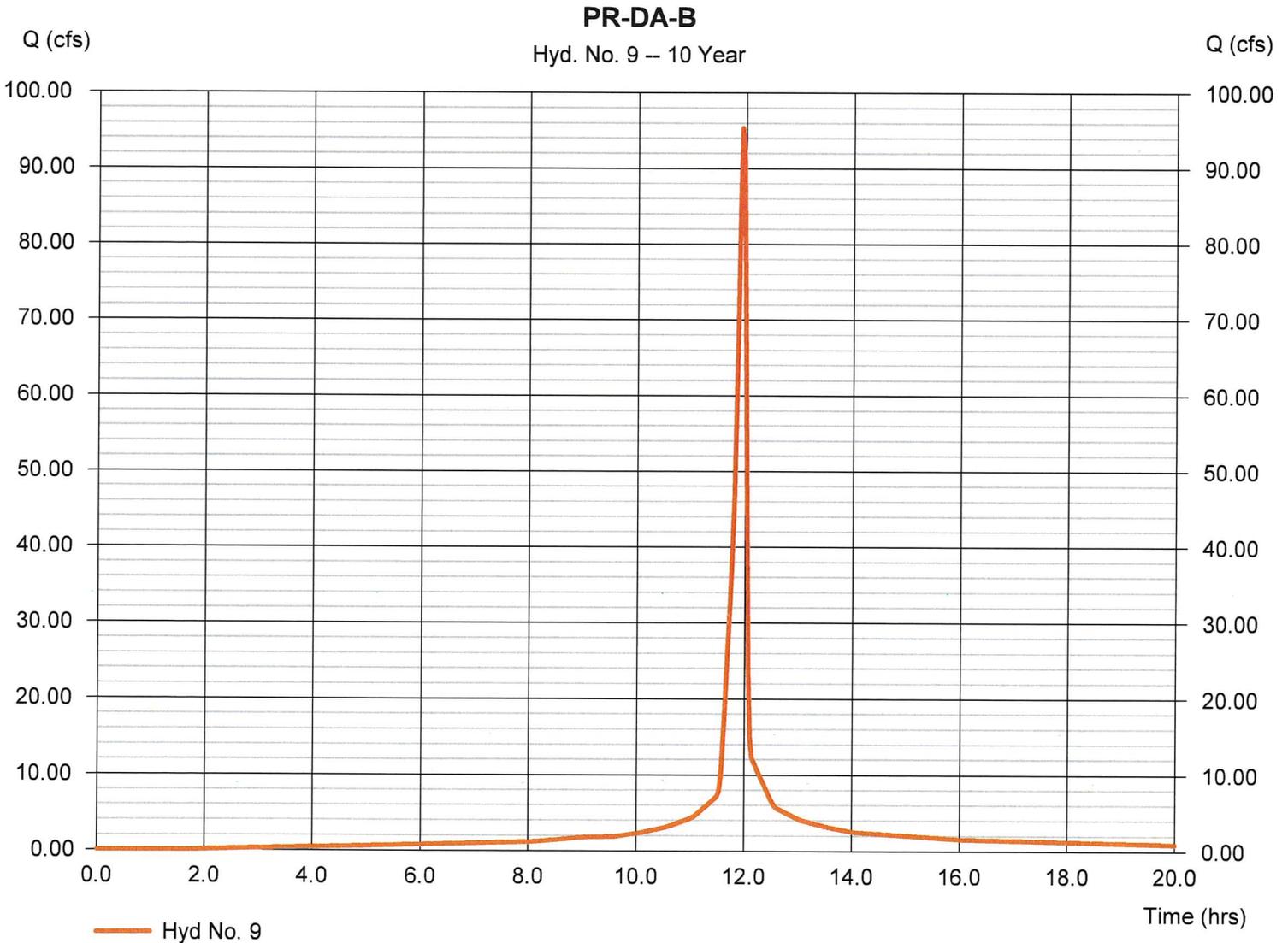
Hyd No. 9

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 10

PR-DA-C

Hydrograph type	= SCS Runoff	Peak discharge	= 162.91 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 389,220 cuft
Drainage area	= 31.050 ac	Curve number	= 90*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 9.50 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.830 x 39) + (5.270 x 80) + (22.950 x 98)] / 31.050

PR-DA-C
Hyd. No. 10 -- 10 Year
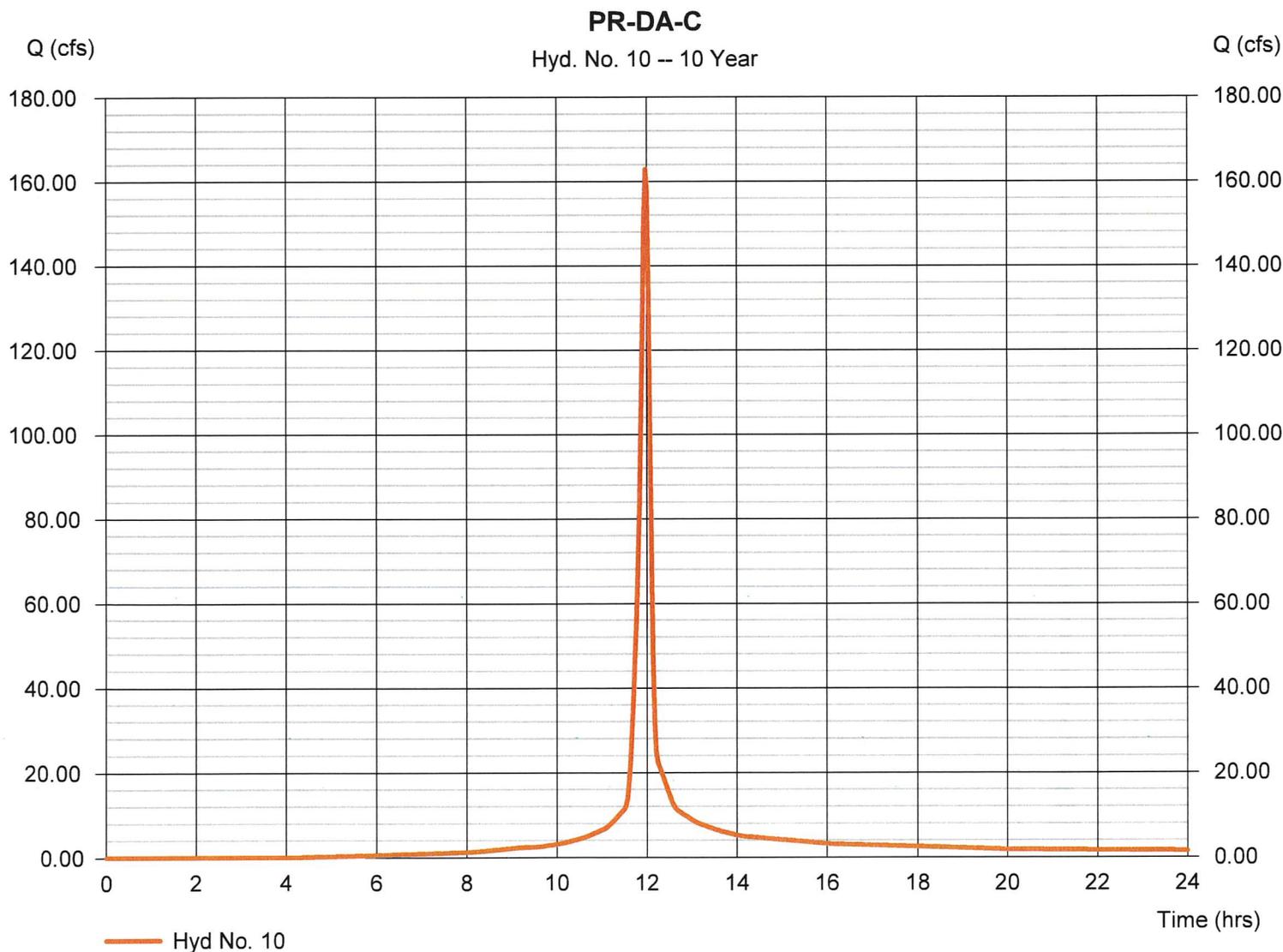
Hyd No. 10

Hydrograph Report

Hyd. No. 11

BMP A Routing

Hydrograph type	= Reservoir	Peak discharge	= 0.894 cfs
Storm frequency	= 10 yrs	Time to peak	= 18.53 hrs
Time interval	= 2 min	Hyd. volume	= 160,794 cuft
Inflow hyd. No.	= 8 - PR-DA-A	Max. Elevation	= 291.31 ft
Reservoir name	= BMP A	Max. Storage	= 133,835 cuft

Storage Indication method used.

BMP A Routing

Hyd. No. 11 -- 10 Year
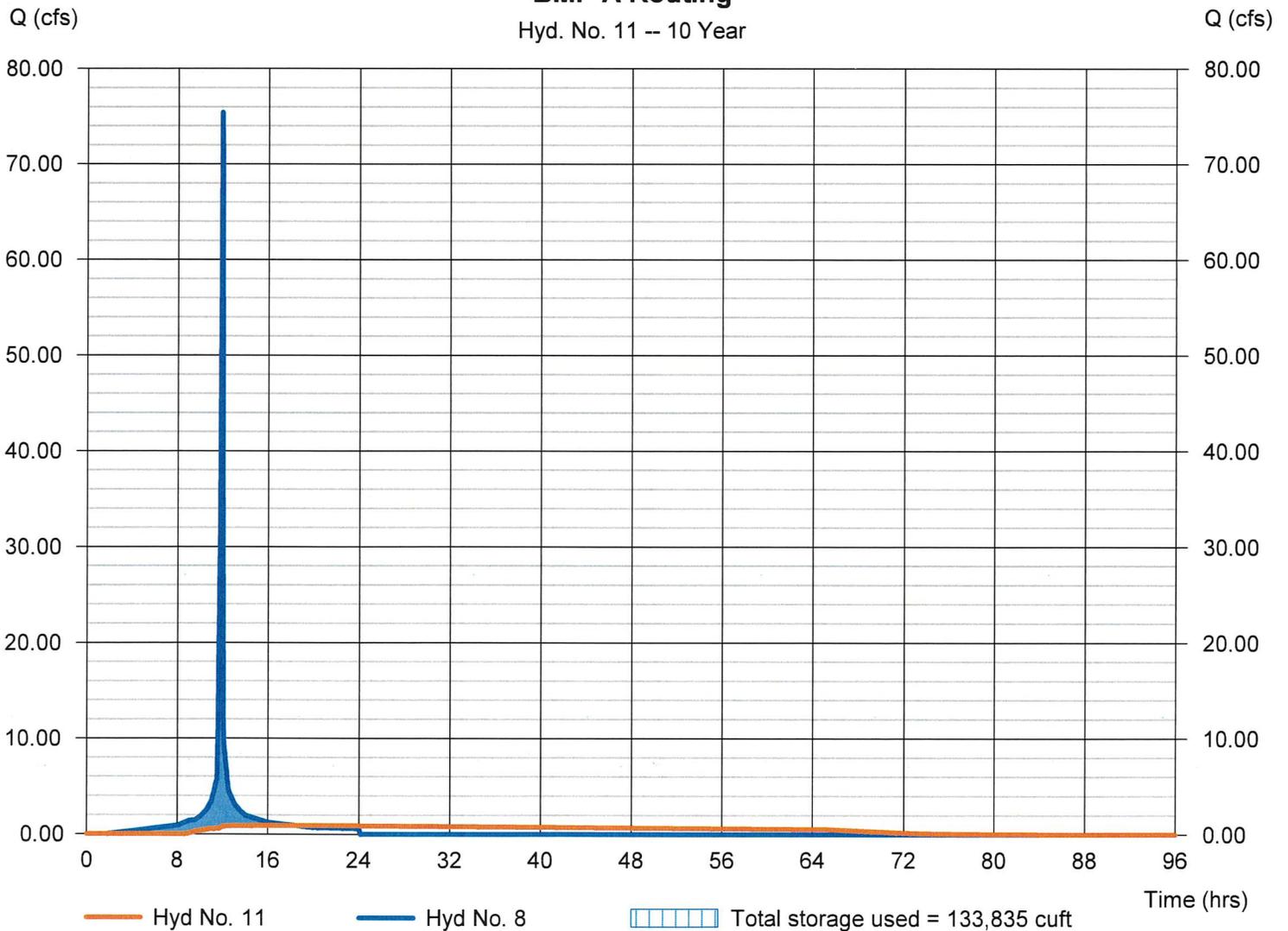
Q (cfs)   Q (cfs)

Time (hrs)

— Hyd No. 11   — Hyd No. 8   Total storage used = 133,835 cuft

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 12
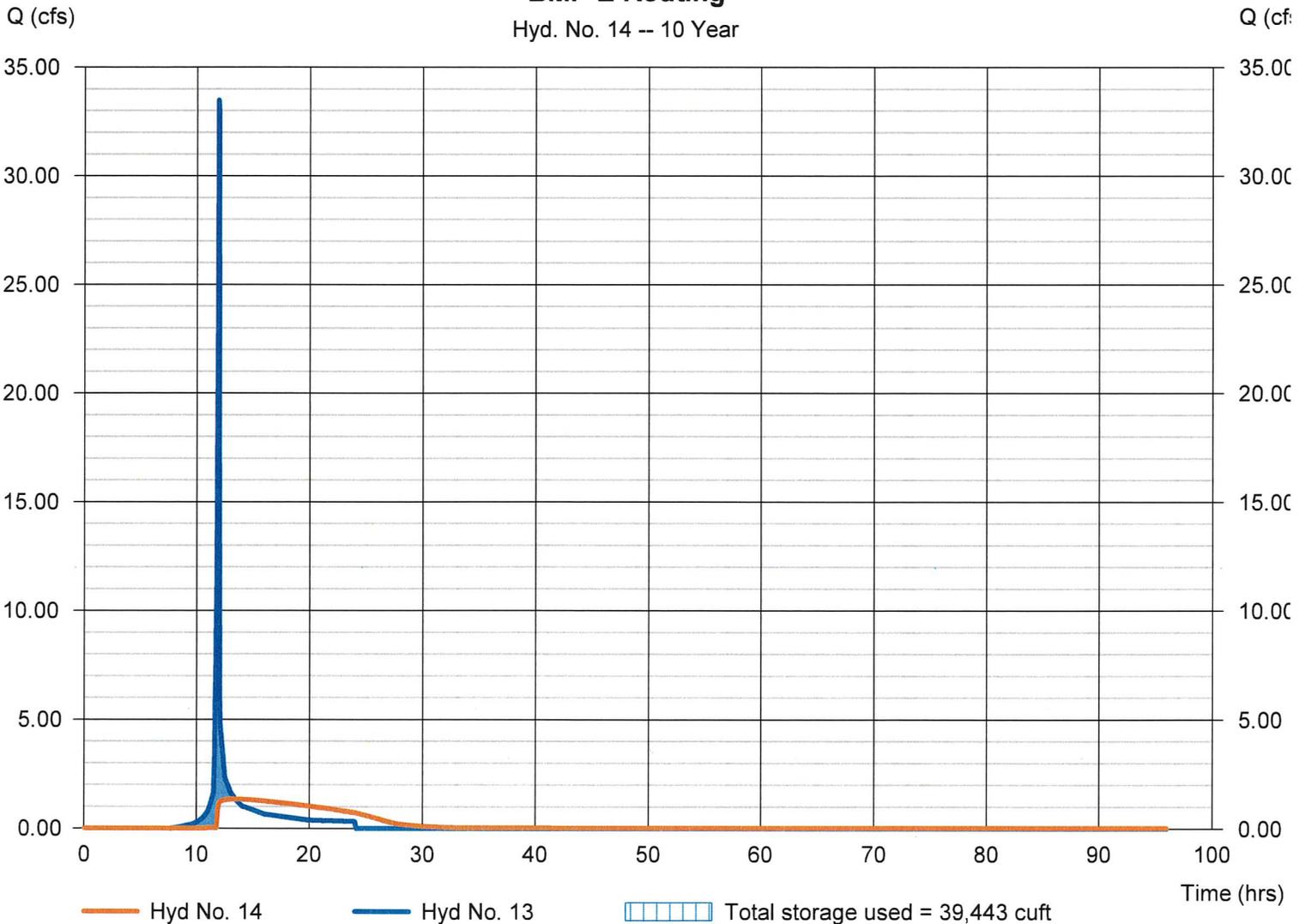
BMP B Routing

Hydrograph type	= Reservoir		Peak discharge	= 1.429 cfs
Storm frequency	= 10 yrs		Time to peak	= 16.73 hrs
Time interval	= 2 min		Hyd. volume	= 206,919 cuft
Inflow hyd. No.	= 9 - PR-DA-B		Max. Elevation	= 287.68 ft
Reservoir name	= BMP B		Max. Storage	= 159,895 cuft

Storage Indication method used.
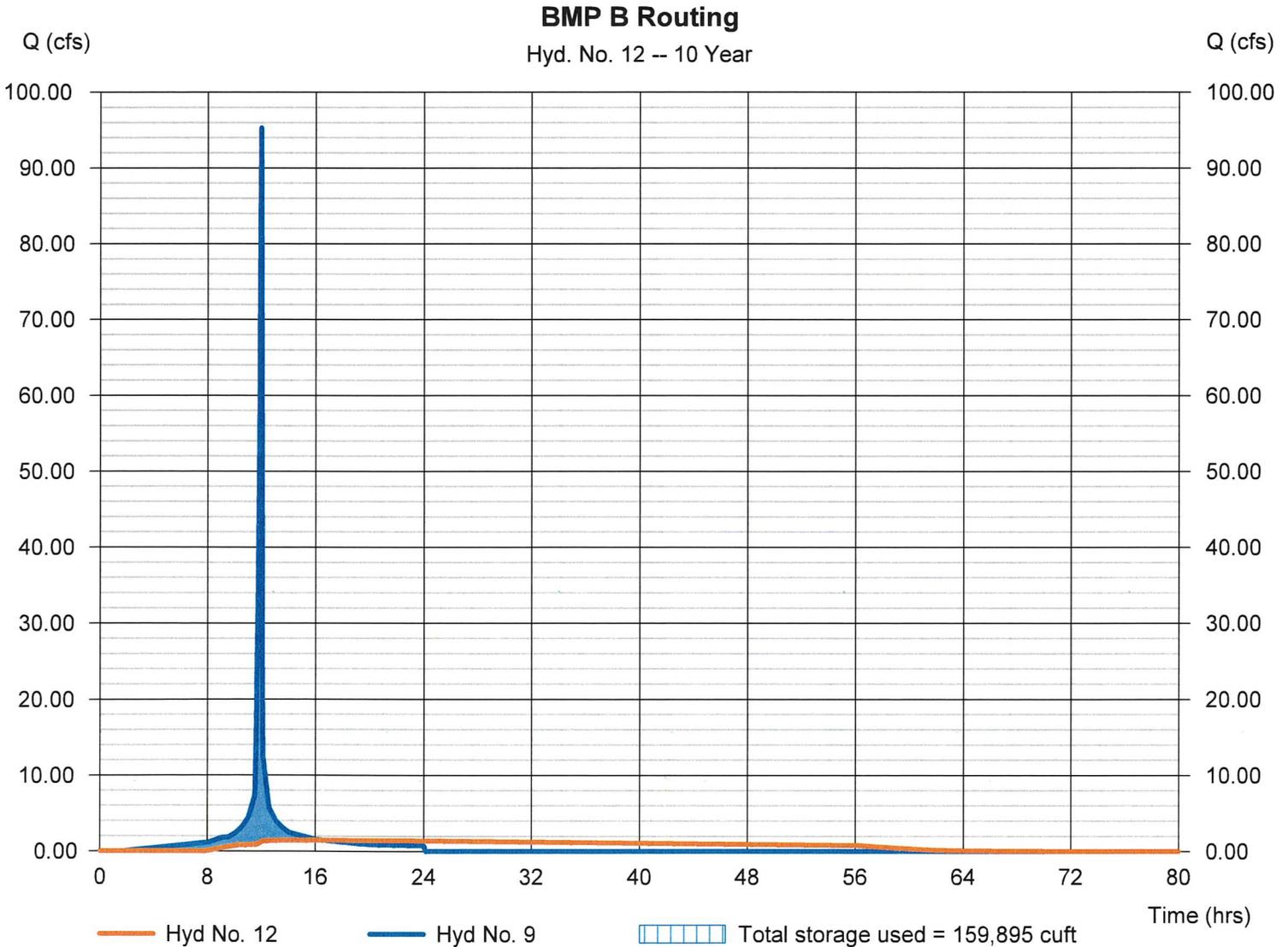
BMP B Routing

Hyd. No. 12 -- 10 Year

Q (cfs) ... Q (cfs)

—— Hyd No. 12   —— Hyd No. 9   [|||||||] Total storage used = 159,895 cuft

Time (hrs)

Hydrograph Report

Hyd. No. 13

PR-DA-E

Hydrograph type	= SCS Runoff	Peak discharge	= 33.49 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 67,896 cuft
Drainage area	= 7.940 ac	Curve number	= 80*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.220 x 39) + (0.880 x 61) + (2.190 x 80) + (3.650 x 98)] / 7.940

PR-DA-E
Hyd. No. 13 -- 10 Year
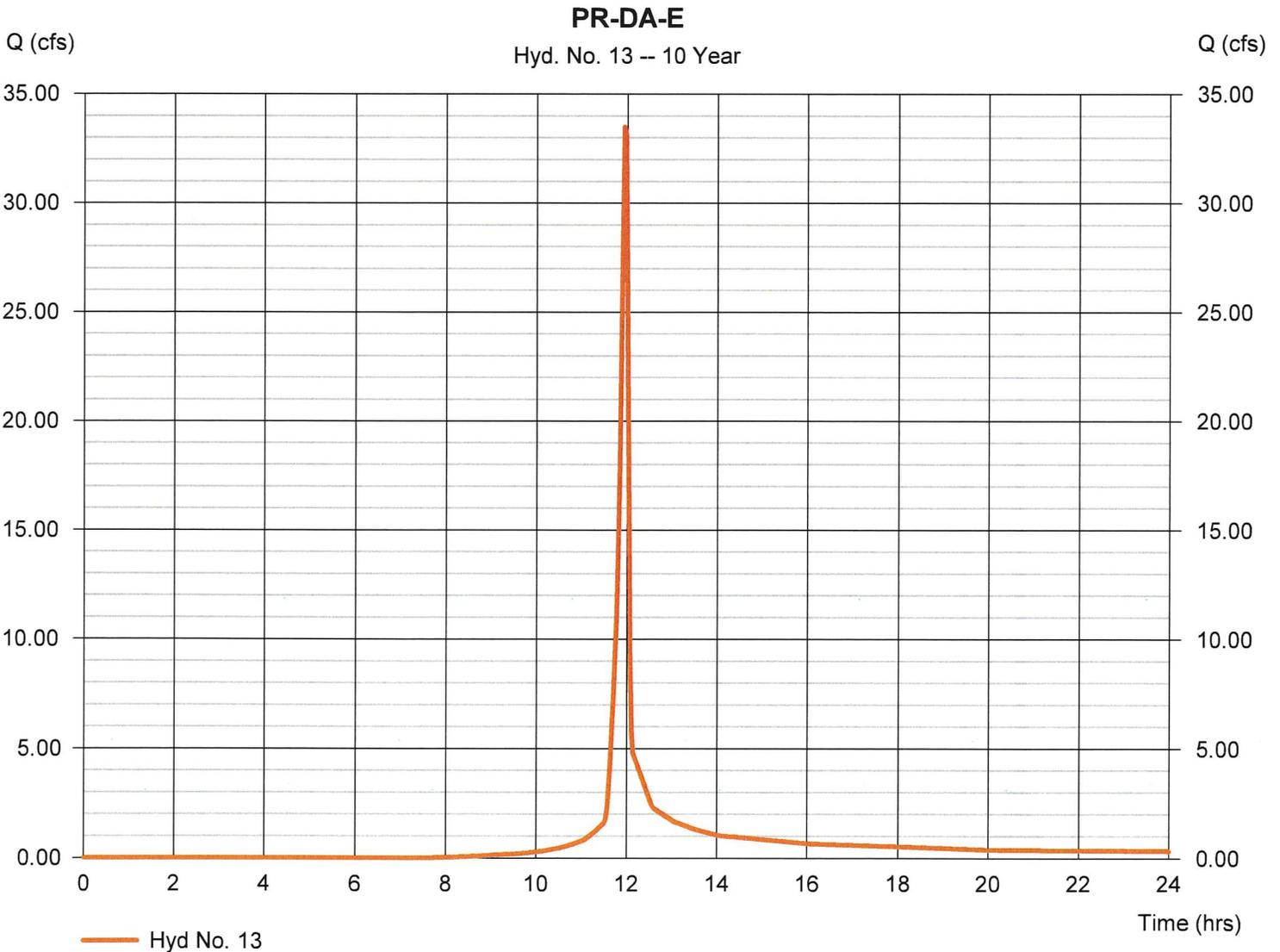
Hydrograph Report

Hyd. No. 14

BMP E Routing

Hydrograph type	= Reservoir	Peak discharge	= 1.338 cfs
Storm frequency	= 10 yrs	Time to peak	= 13.50 hrs
Time interval	= 2 min	Hyd. volume	= 64,137 cuft
Inflow hyd. No.	= 13 - PR-DA-E	Max. Elevation	= 259.31 ft
Reservoir name	= BMP E	Max. Storage	= 39,443 cuft

Storage Indication method used.
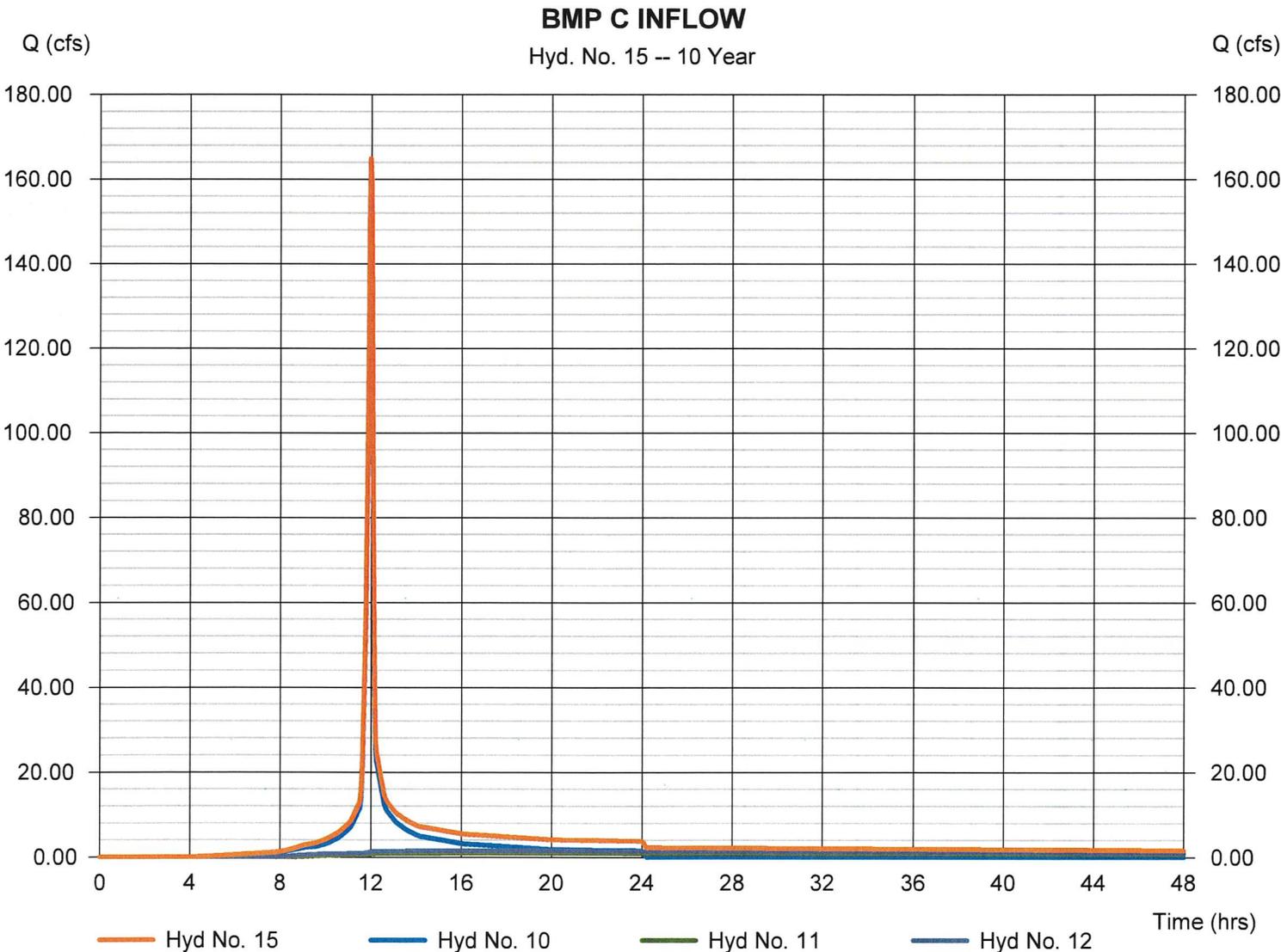
BMP E Routing

Hyd. No. 14 -- 10 Year

Hyd No. 14   Hyd No. 13   Total storage used = 39,443 cuft

Hydrograph Report

Hyd. No. 15

BMP C INFLOW

Hydrograph type	= Combine	Peak discharge	= 164.88 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 756,932 cuft
Inflow hyds.	= 10, 11, 12	Contrib. drain. area	= 31.050 ac

BMP C INFLOW

Hyd. No. 15 -- 10 Year

Hydrograph Report

Hyd. No. 16

MRC BMP C Routing(DP1)

Hydrograph type	= Reservoir	Peak discharge	= 7.953 cfs
Storm frequency	= 10 yrs	Time to peak	= 13.83 hrs
Time interval	= 2 min	Hyd. volume	= 693,175 cuft
Inflow hyd. No.	= 15 - BMP C INFLOW	Max. Elevation	= 217.93 ft
Reservoir name	= BMP C	Max. Storage	= 270,697 cuft

Storage Indication method used.

MRC BMP C Routing(DP1)
Hyd. No. 16 -- 10 Year
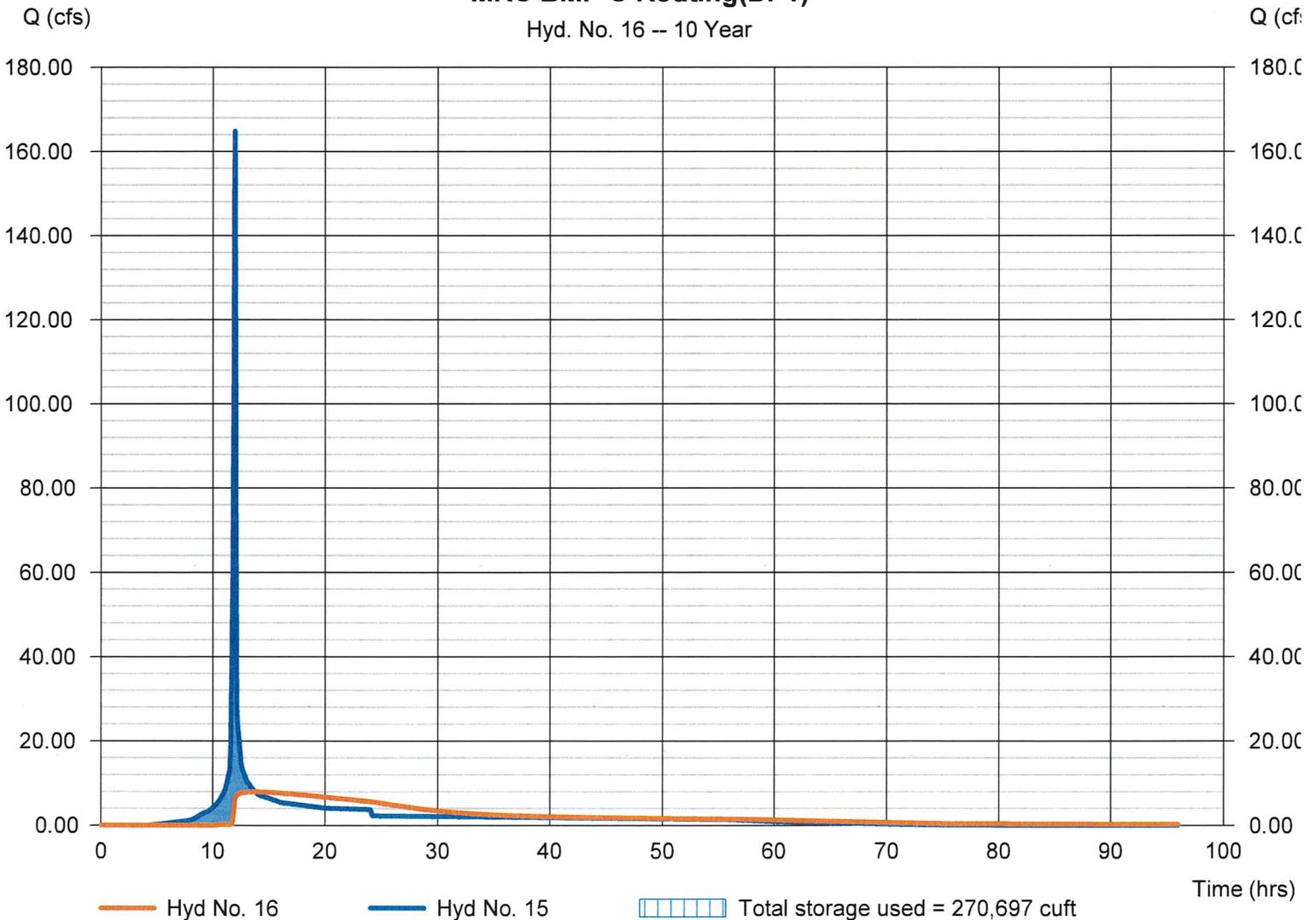
Hyd No. 16   Hyd No. 15   Total storage used = 270,697 cuft

Hydrograph Report

Wednesday, 01 / 29 / 2025

Hyd. No. 17

PR-BYPASS 1

Hydrograph type	= SCS Runoff	Peak discharge	= 11.45 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 23,046 cuft
Drainage area	= 4.950 ac	Curve number	= 65*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 6.30 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.830 x 39) + (1.480 x 61) + (1.640 x 98)] / 4.950

PR-BYPASS 1
Hyd. No. 17 -- 10 Year
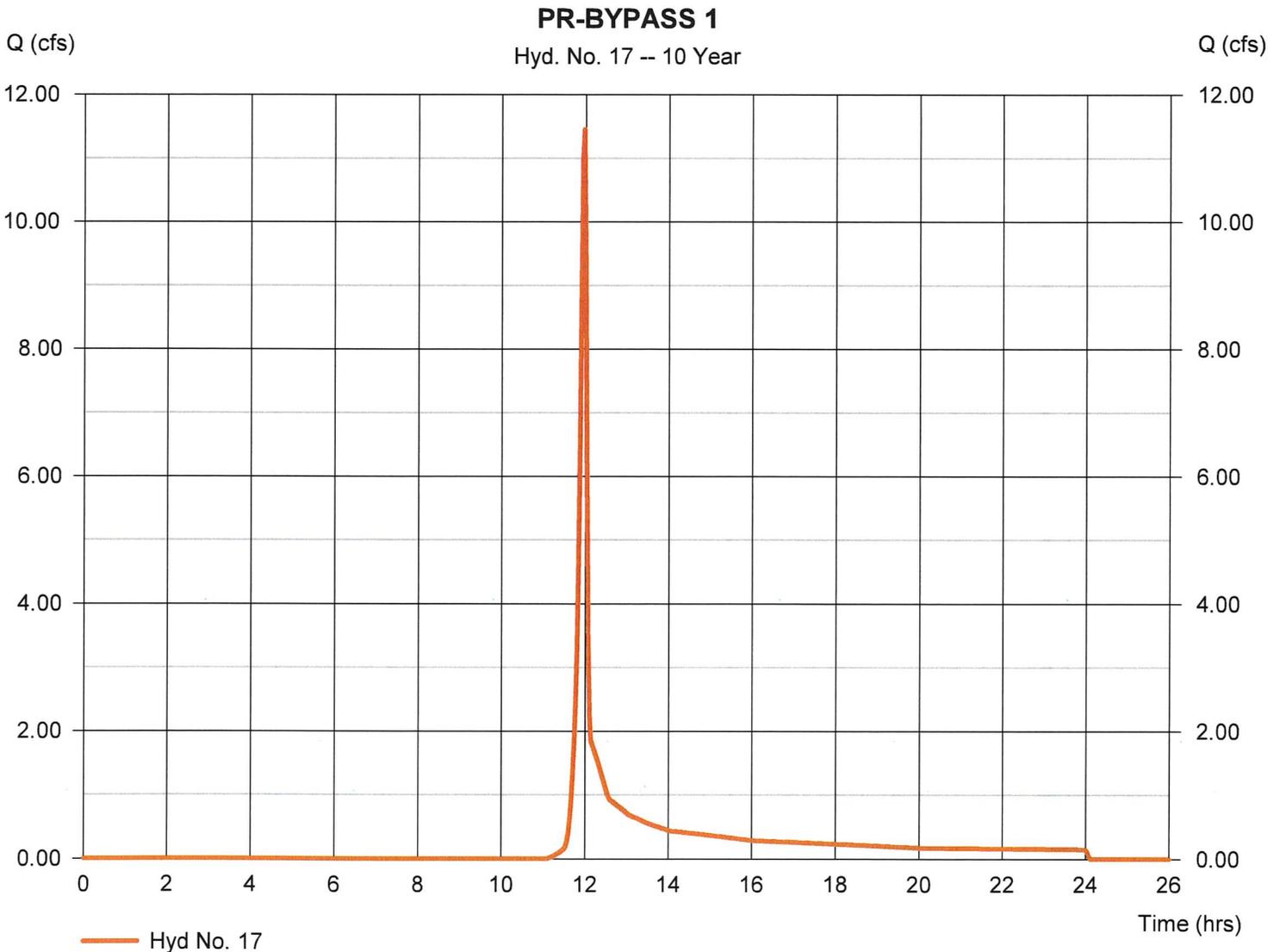
Hydrograph Report

Hyd. No. 18

PR RG

Hydrograph type	= SCS Runoff	Peak discharge	= 3.404 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 7,797 cuft
Drainage area	= 1.200 ac	Curve number	= 71*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 7.40 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.410 x 80) + (0.690 x 61) + (0.100 x 98)] / 1.200

PR RG

Hyd. No. 18 -- 10 Year
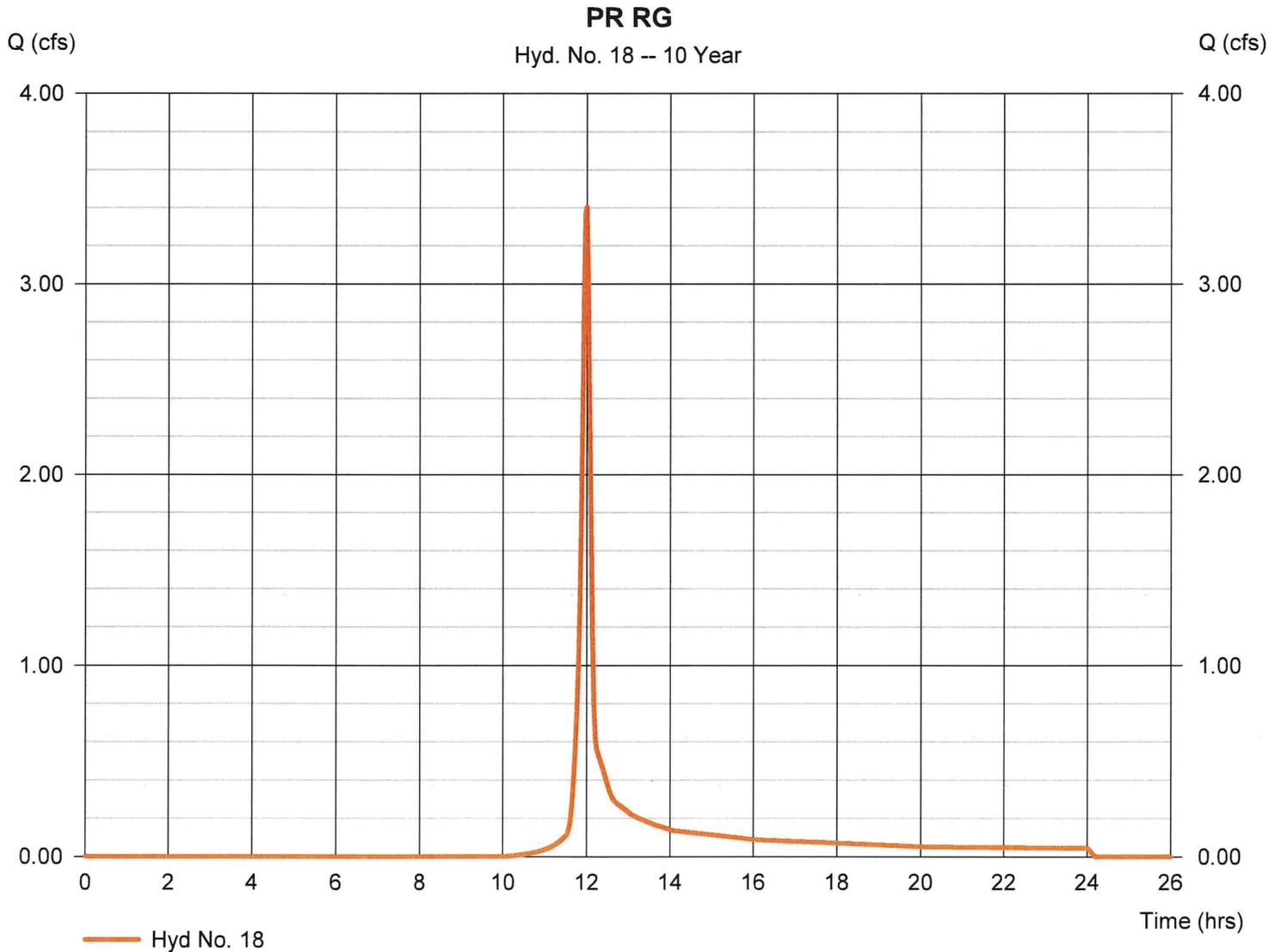
Hyd No. 18

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 19

PR-BYPASS 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.941 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 6,330 cuft
Drainage area	= 5.600 ac	Curve number	= 45*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 9.50 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(4.520 x 39) + (0.490 x 61) + (0.530 x 80) + (0.060 x 98)] / 5.600

PR-BYPASS 2

Hyd. No. 19 -- 10 Year

Hyd No. 19
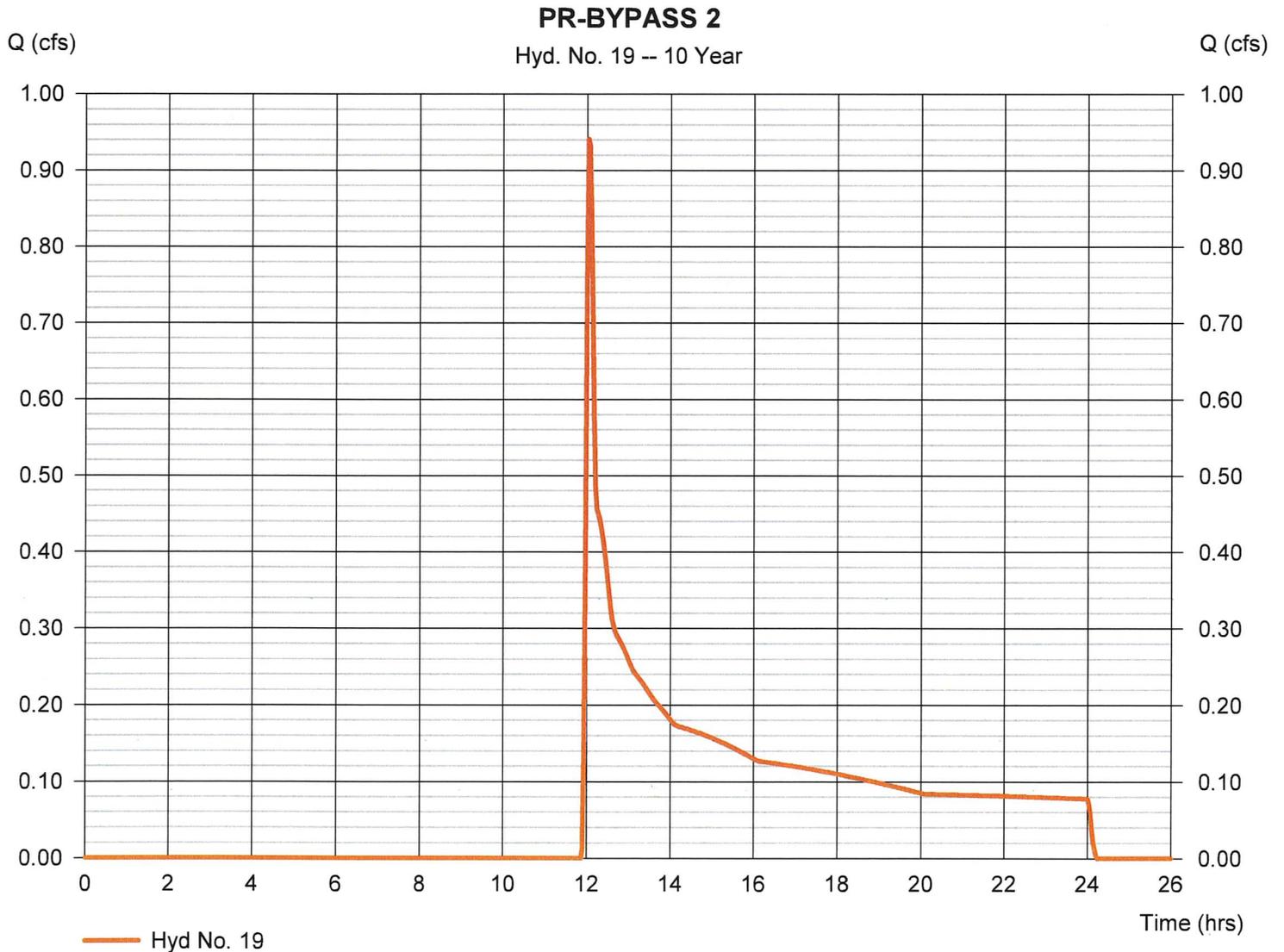
Hydrograph Report

Hyd. No. 20

PR-BYPASS 3

Hydrograph type	= SCS Runoff	Peak discharge	= 4.667 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 9,582 cuft
Drainage area	= 2.530 ac	Curve number	= 61*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 4.90 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.530 x 61)] / 2.530

PR-BYPASS 3

Hyd. No. 20 -- 10 Year
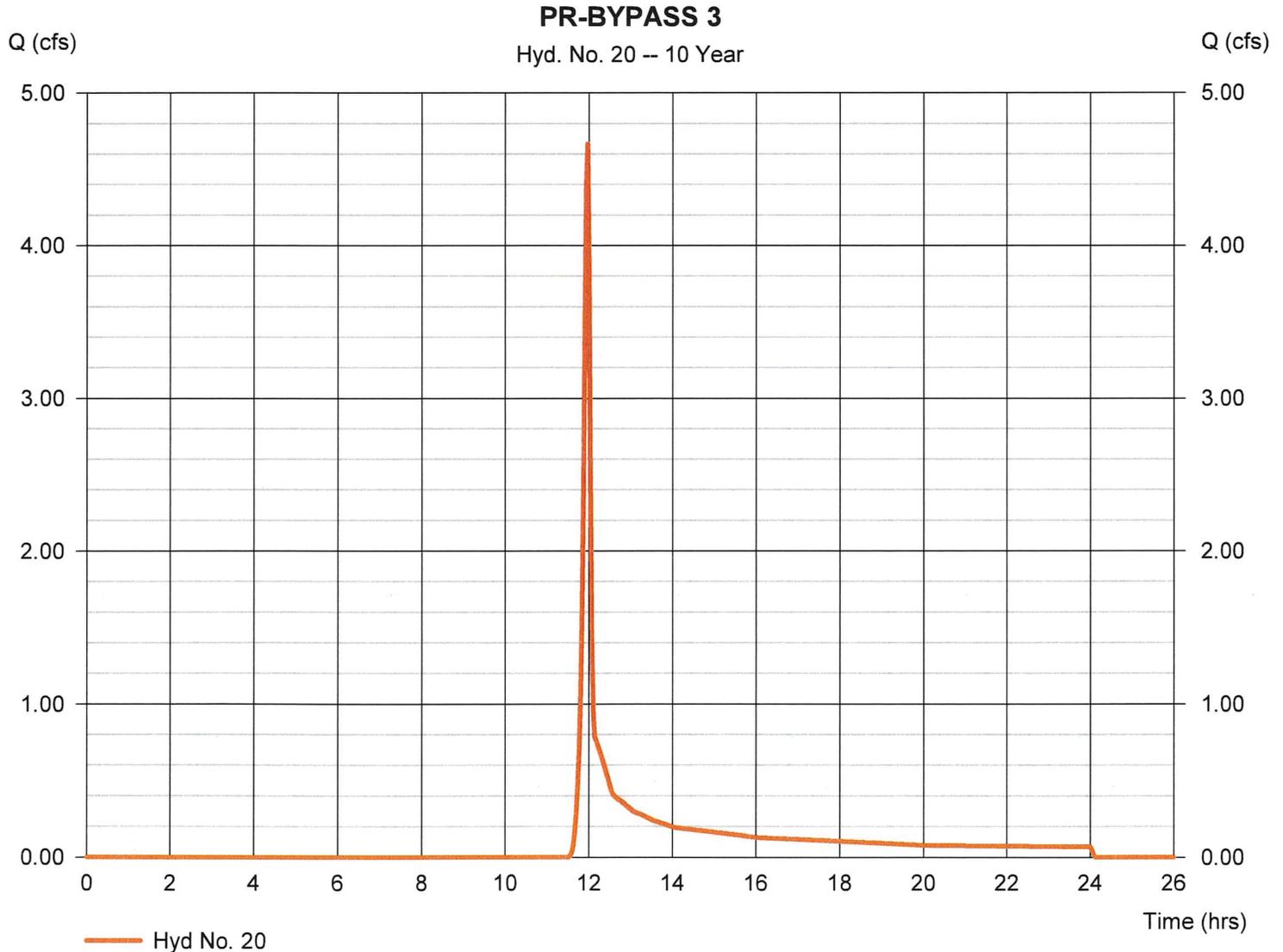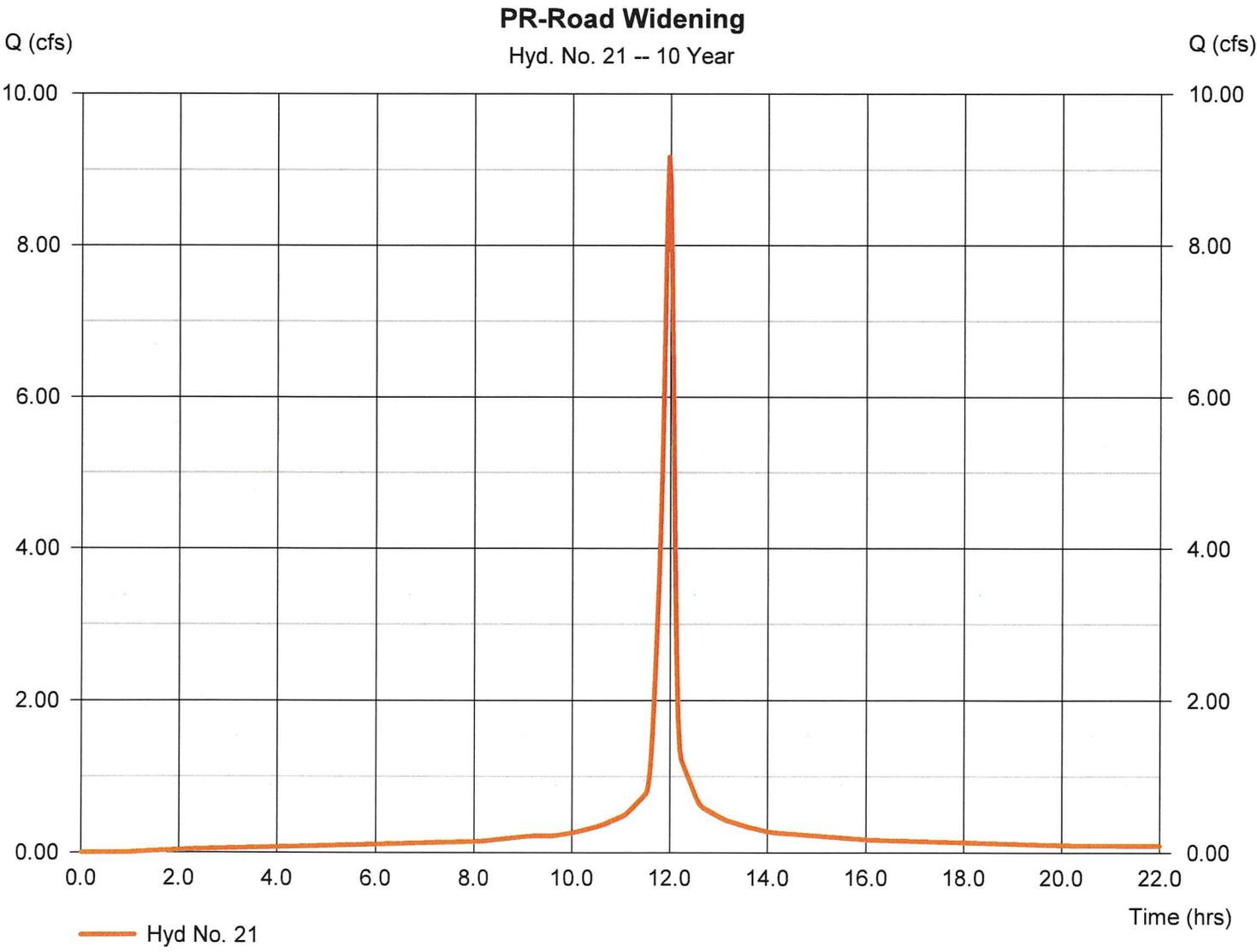

Hyd No. 20

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025
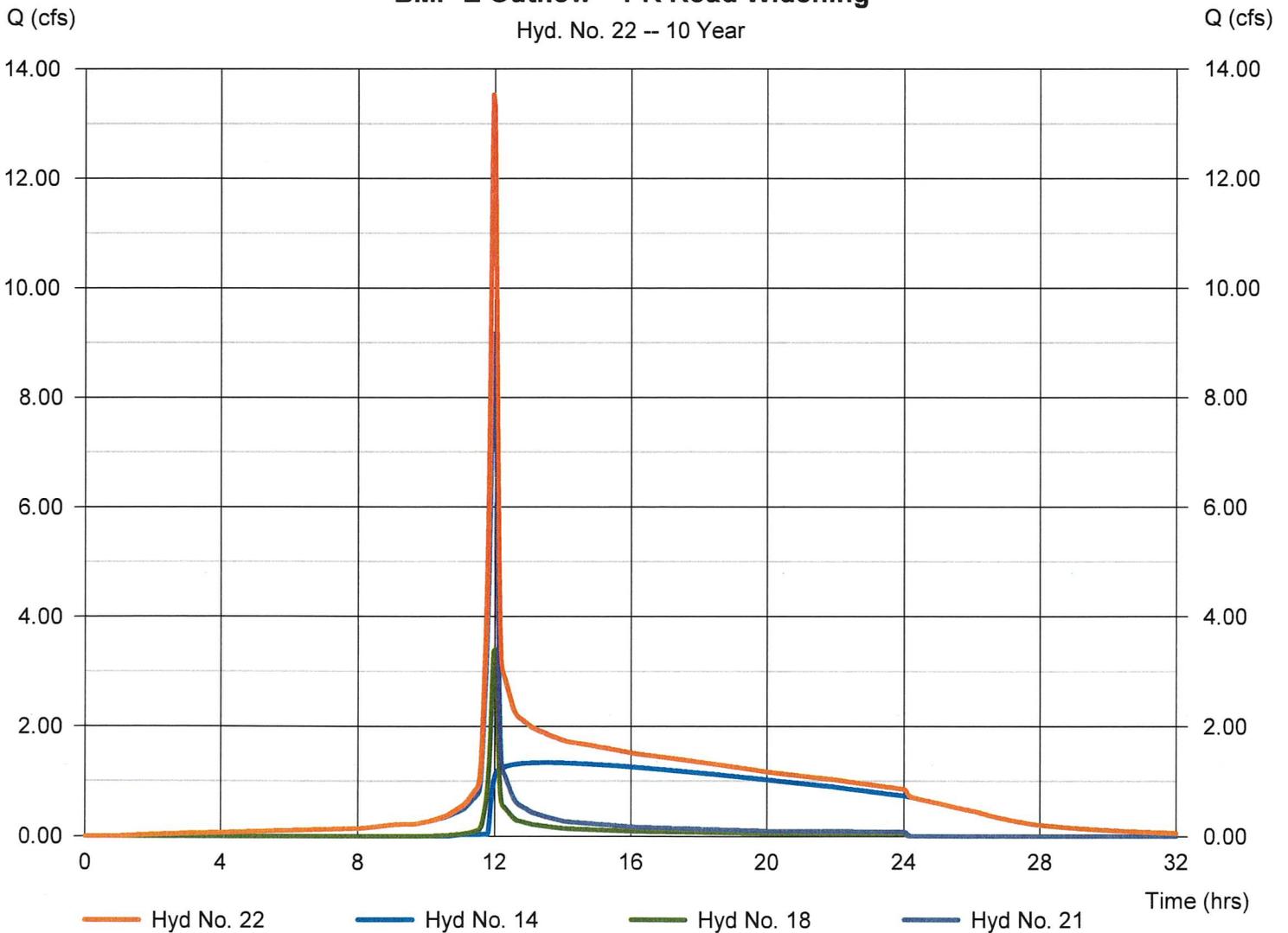
Hyd. No. 21

PR-Road Widening

Hydrograph type	= SCS Runoff	Peak discharge	= 9.169 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 24,329 cuft
Drainage area	= 1.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 7.70 min
Total precip.	= 4.56 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

PR-Road Widening
Hyd. No. 21 -- 10 Year

Hyd No. 21

Hydrograph Report

Hyd. No. 22

BMP E Outflow + PR Road Widening

Hydrograph type	= Combine	Peak discharge	= 13.53 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 96,262 cuft
Inflow hyds.	= 14, 18, 21	Contrib. drain. area	= 2.750 ac

BMP E Outflow + PR Road Widening

Hyd. No. 22 -- 10 Year

Legend: Hyd No. 22 — Hyd No. 14 — Hyd No. 18 — Hyd No. 21

Hydrograph Report

Hyd. No. 23

RG Routing (DP2)

Hydrograph type	= Reservoir	Peak discharge	= 9.117 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 83,248 cuft
Inflow hyd. No.	= 22 - BMP E Outflow + PR Road Widening	Max. Elevation	= 233.07 ft
Reservoir name	= Hacket Rain Garden	Max. Storage	= 16,503 cuft

Storage Indication method used.

RG Routing (DP2)

Hyd. No. 23 -- 10 Year

Legend: Hyd No. 23 — Hyd No. 22 — Total storage used = 16,503 cuft

Hydrograph Report

Hyd. No. 24

PR-BYPASS

Hydrograph type	= Combine		Peak discharge	= 16.55 cfs
Storm frequency	= 10 yrs		Time to peak	= 11.97 hrs
Time interval	= 2 min		Hyd. volume	= 38,958 cuft
Inflow hyds.	= 17, 19, 20		Contrib. drain. area	= 13.080 ac

PR-BYPASS
Hyd. No. 24 -- 10 Year

Legend: Hyd No. 24, Hyd No. 17, Hyd No. 19, Hyd No. 20
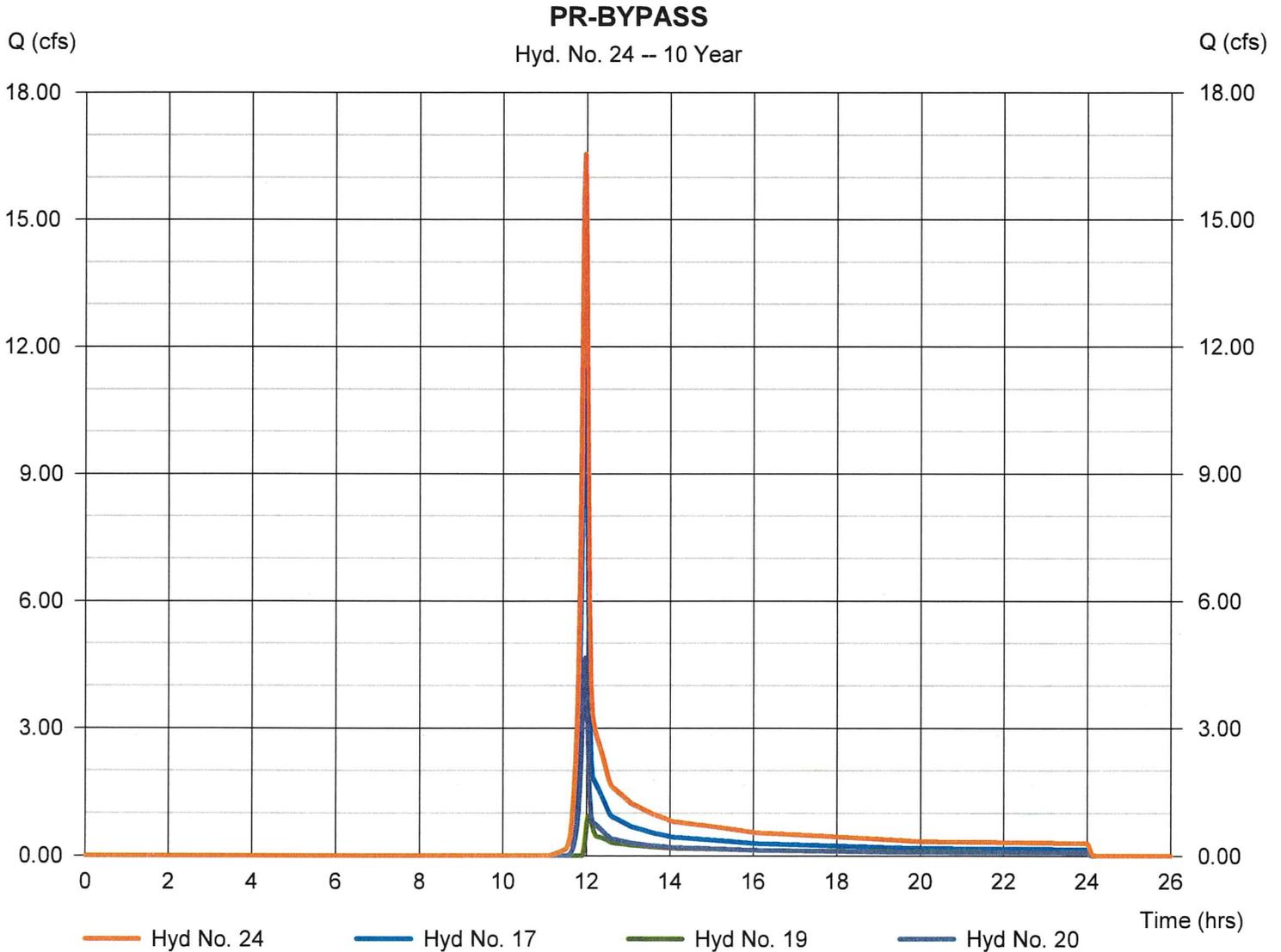
Hydrograph Report

Hyd. No. 25

PROPOSED ENTIRE SITE (POI)

Hydrograph type	= Combine	Peak discharge	= 24.79 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 879,518 cuft
Inflow hyds.	= 14, 16, 23, 24	Contrib. drain. area	= 0.000 ac

PROPOSED ENTIRE SITE (POI)

Hyd. No. 25 -- 10 Year

— Hyd No. 25   — Hyd No. 14   — Hyd No. 16   — Hyd No. 23
— Hyd No. 24

Hydrograph Report

Hyd. No. 26

EX-to- Bushkill

Hydrograph type	= Combine	Peak discharge	= 39.60 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 126,577 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 35.550 ac
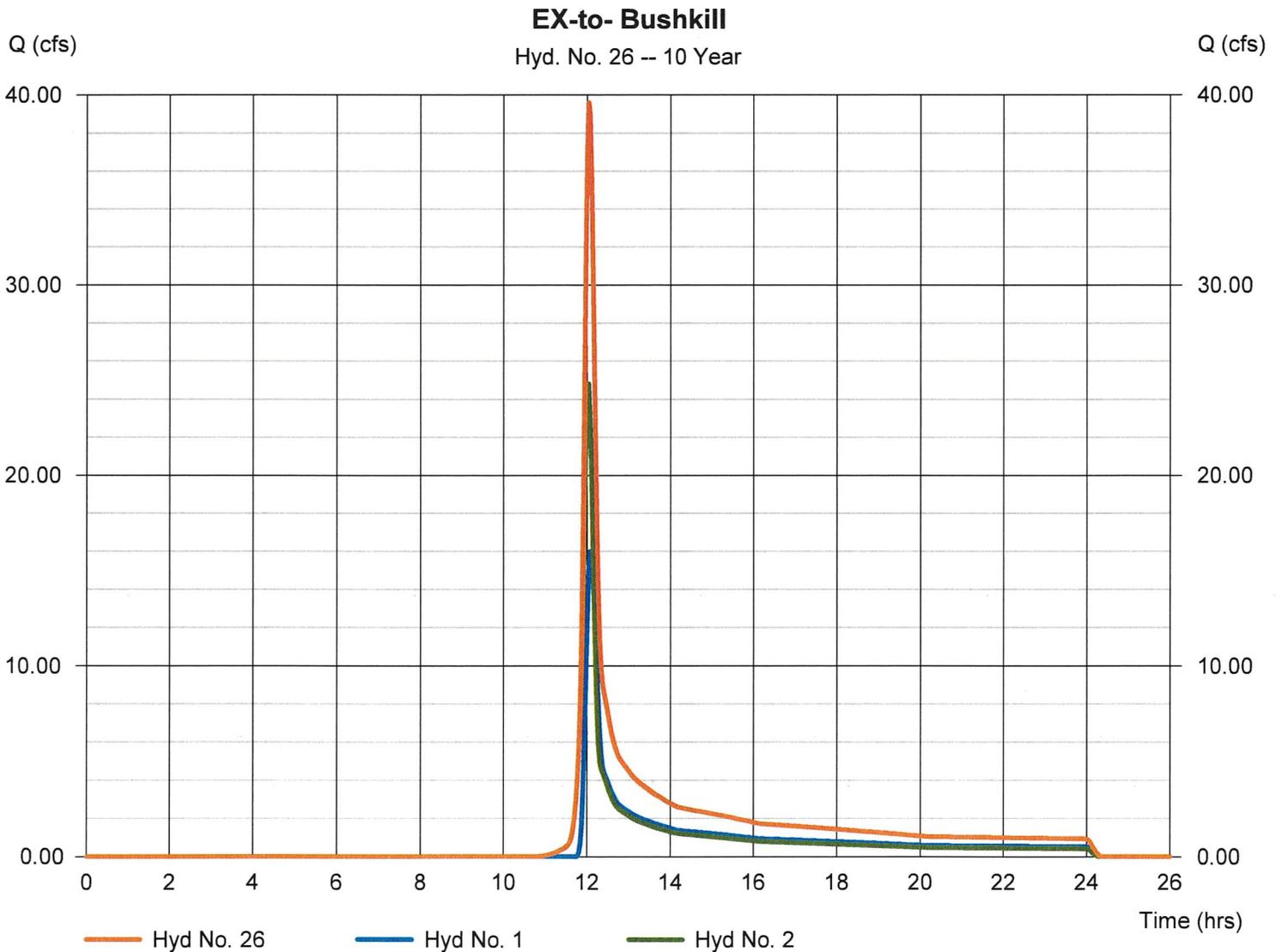
EX-to- Bushkill
Hyd. No. 26 -- 10 Year

Legend: Hyd No. 26 — Hyd No. 1 — Hyd No. 2

Hydrograph Report

Hyd. No. 27

PR-to-Bushkill

Hydrograph type	= Combine	Peak discharge	= 16.12 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 32,628 cuft
Inflow hyds.	= 17, 20	Contrib. drain. area	= 7.480 ac

PR-to-Bushkill

Hyd. No. 27 -- 10 Year

Hydrograph Report

Hyd. No. 28

EX-to-UNT

Hydrograph type	= Combine	Peak discharge	= 65.70 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 220,715 cuft
Inflow hyds.	= 3, 4, 5, 6	Contrib. drain. area	= 47.330 ac

EX-to-UNT

Hyd. No. 28 -- 10 Year

Q (cfs)

Time (hrs)

Hyd No. 28   Hyd No. 3   Hyd No. 4   Hyd No. 5
Hyd No. 6

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 29

PR-to-UNT (DPs 001& 002)

Hydrograph type	= Combine	Peak discharge	= 18.89 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 790,550 cuft
Inflow hyds.	= 16, 18, 19, 23	Contrib. drain. area	= 6.800 ac

PR-to-UNT (DPs 001& 002)

Hyd. No. 29 -- 10 Year

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

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	30.73	2	724	99,415	------	------	------	EX-DA 1
2	SCS Runoff	36.44	2	722	95,700	------	------	------	EX-DA2
3	SCS Runoff	49.39	2	726	165,849	------	------	------	EX-DA3
4	SCS Runoff	40.87	2	720	106,054	------	------	------	EX-DA4
5	SCS Runoff	5.040	2	728	23,273	------	------	------	EX-DA5
6	SCS Runoff	10.56	2	720	27,790	------	------	------	EX-DA-Road Widening
7	Combine	165.60	2	722	518,082	1, 2, 3, 4, 5, 6	------	------	EX-TOTAL
8	SCS Runoff	91.97	2	716	213,089	------	------	------	PR-DA-A
9	SCS Runoff	116.22	2	716	269,283	------	------	------	PR-DA-B
10	SCS Runoff	203.76	2	718	493,598	------	------	------	PR-DA-C
11	Reservoir	0.979	2	1150	200,818	8	291.71	167,526	BMP A Routing
12	Reservoir	1.567	2	1052	257,802	9	288.15	200,289	BMP B Routing
13	SCS Runoff	44.31	2	716	90,550	------	------	------	PR-DA-E
14	Reservoir	7.733	2	726	86,680	13	259.79	45,536	BMP E Routing
15	Combine	205.90	2	718	952,218	10, 11, 12,	------	------	BMP C INFLOW
16	Reservoir	9.544	2	830	878,628	15	218.51	346,023	MRC BMP C Routing(DP1)
17	SCS Runoff	16.92	2	718	33,838	------	------	------	PR-BYPASS 1
18	SCS Runoff	4.786	2	720	10,964	------	------	------	PR RG
19	SCS Runoff	3.522	2	722	12,562	------	------	------	PR-BYPASS 2
20	SCS Runoff	7.247	2	718	14,564	------	------	------	PR-BYPASS 3
21	SCS Runoff	11.12	2	718	29,722	------	------	------	PR-Road Widening
22	Combine	17.54	2	722	127,366	14, 18, 21	------	------	BMP E Outflow + PR Road Widening
23	Reservoir	17.11	2	724	114,352	22	233.22	17,634	RG Routing (DP2)
24	Combine	26.90	2	718	60,963	17, 19, 20,	------	------	PR-BYPASS
25	Combine	46.78	2	720	1,140,624	14, 16, 23, 24	------	------	PROPOSED ENTIRE SITE (POI)
26	Combine	65.97	2	722	195,116	1, 2,	------	------	EX-to- Bushkill
27	Combine	24.17	2	718	48,401	17, 20,	------	------	PR-to-Bushkill
28	Combine	99.62	2	722	322,966	3, 4, 5, 6,	------	------	EX-to-UNT
29	Combine	31.84	2	722	1,016,506	16, 18, 19, 23,	------	------	PR-to-UNT (DPs 001& 002)

24hours_Sep for LVPC.gpw	Return Period: 25 Year	Wednesday, 01 / 29 / 2025

Hydrograph Report

Hyd. No. 1

EX-DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 30.73 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 99,415 cuft
Drainage area	= 23.790 ac	Curve number	= 54*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 15.20 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(5.640 x 39) + (0.690 x 61) + (8.150 x 77) + (5.640 x 30) + (2.770 x 55) + (0.900 x 74)] / 23.790

EX-DA 1

Hyd. No. 1 -- 25 Year
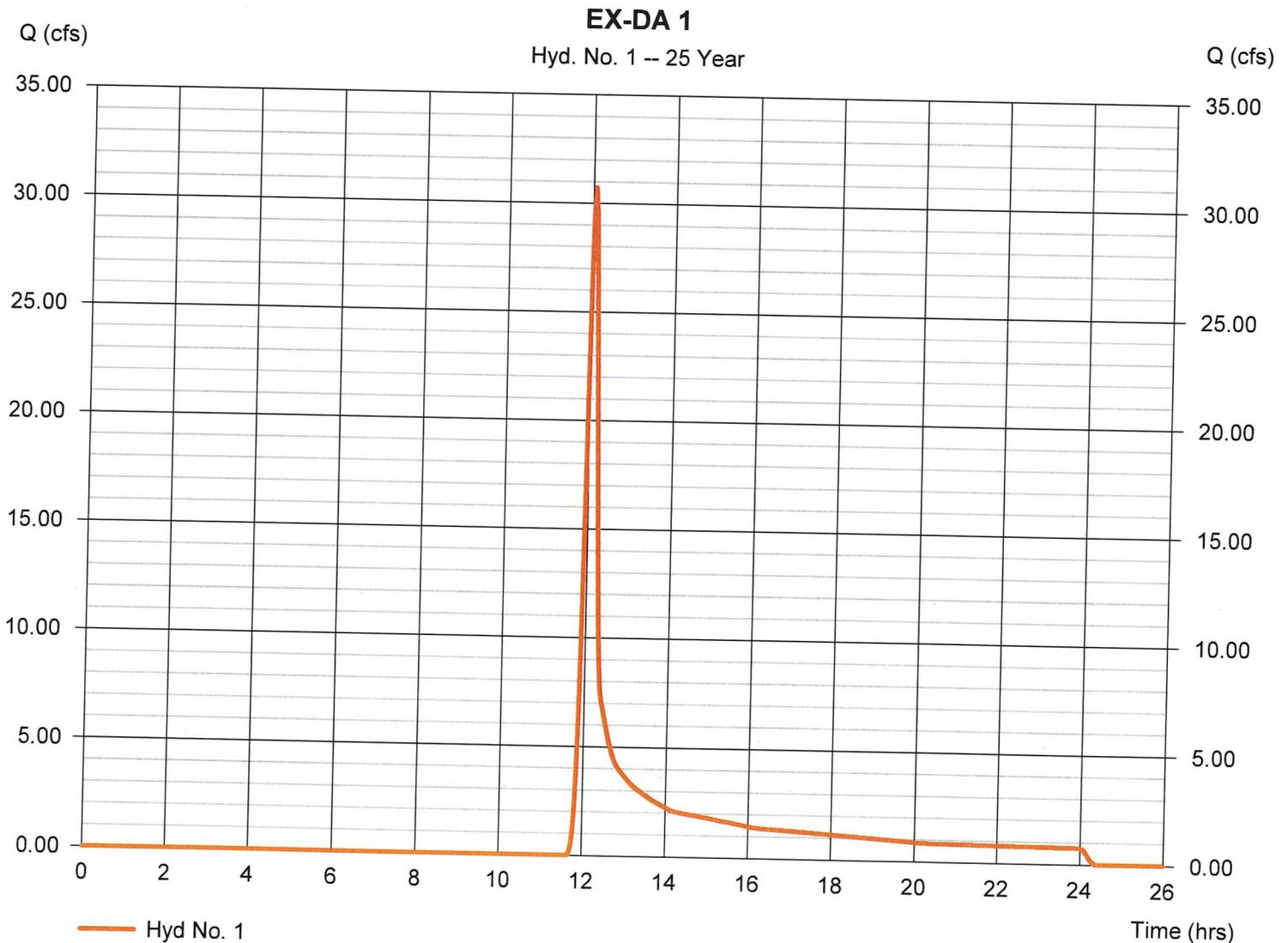
Hyd No. 1

Hydrograph Report

Hyd. No. 2

EX-DA2

Hydrograph type	= SCS Runoff	Peak discharge	= 36.44 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 95,700 cuft
Drainage area	= 11.760 ac	Curve number	= 67*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 13.10 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.060 x 39) + (5.190 x 77) + (1.370 x 30) + (1.600 x 74) + (1.540 x 98)] / 11.760

EX-DA2

Hyd. No. 2 -- 25 Year
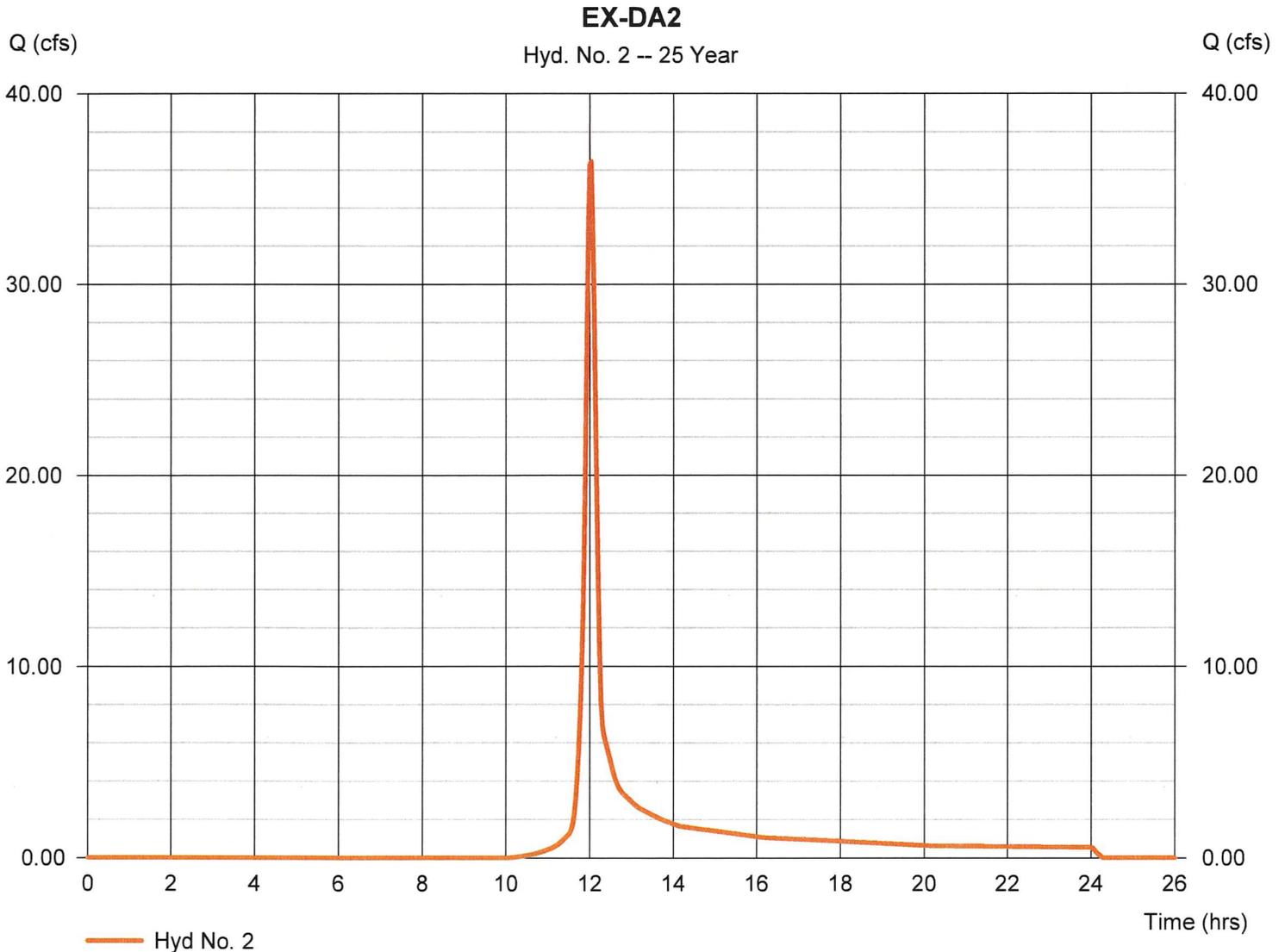
Hyd No. 2

Hydrograph Report

Hyd. No. 3

EX-DA3

Hydrograph type	= SCS Runoff	Peak discharge	= 49.39 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.10 hrs
Time interval	= 2 min	Hyd. volume	= 165,849 cuft
Drainage area	= 28.290 ac	Curve number	= 60*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.90 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.920 x 39) + (11.890 x 77) + (0.630 x 61) + (7.210 x 30) + (4.530 x 70) + (1.110 x 98)] / 28.290

EX-DA3
Hyd. No. 3 -- 25 Year
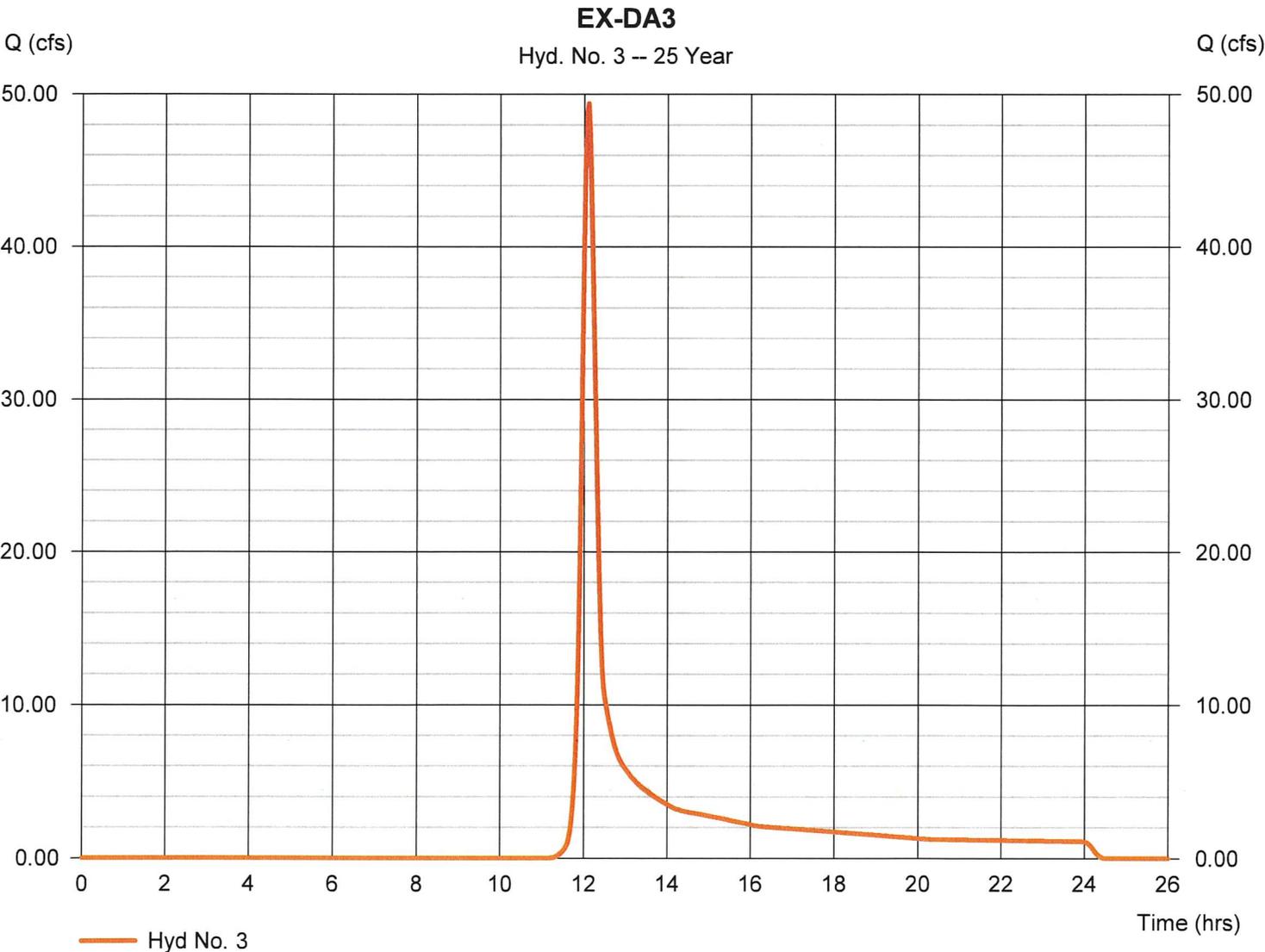
Hyd No. 3

Hydrograph Report

Hyd. No. 4

EX-DA4

Hydrograph type	= SCS Runoff		Peak discharge	= 40.87 cfs
Storm frequency	= 25 yrs		Time to peak	= 12.00 hrs
Time interval	= 2 min		Hyd. volume	= 106,054 cuft
Drainage area	= 8.970 ac		Curve number	= 78*
Basin Slope	= 0.0 %		Hydraulic length	= 0 ft
Tc method	= TR55		Time of conc. (Tc)	= 11.50 min
Total precip.	= 5.52 in		Distribution	= Type II
Storm duration	= 24 hrs		Shape factor	= 484

* Composite (Area/CN) = [(8.040 x 77) + (0.420 x 74) + (0.510 x 98)] / 8.970

EX-DA4

Hyd. No. 4 -- 25 Year
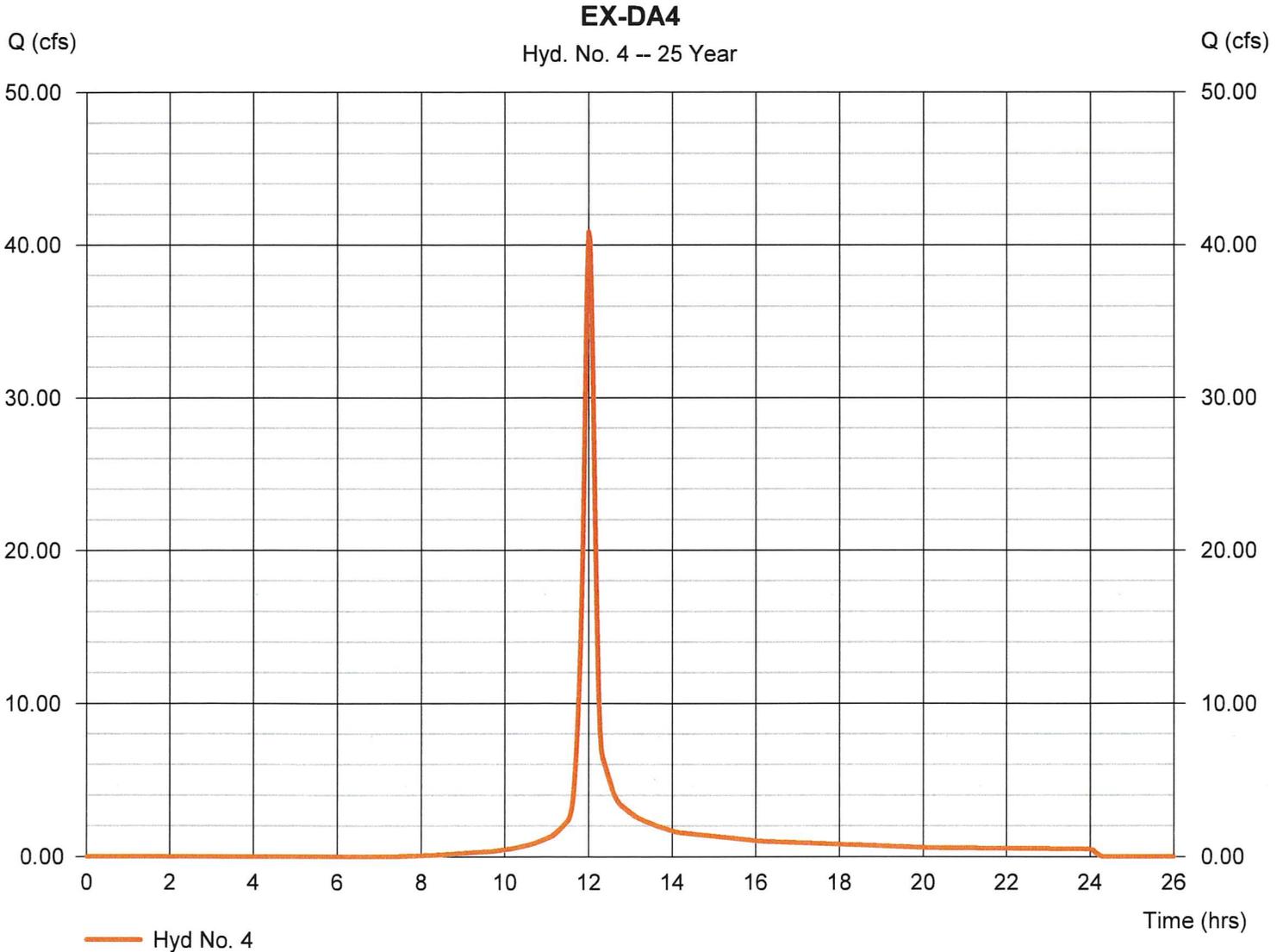
Hyd No. 4

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 5

EX-DA5

Hydrograph type	= SCS Runoff	Peak discharge	= 5.040 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.13 hrs
Time interval	= 2 min	Hyd. volume	= 23,273 cuft
Drainage area	= 8.090 ac	Curve number	= 48*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 17.50 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.910 x 39) + (0.260 x 77) + (0.690 x 61) + (3.640 x 30) + (2.270 x 65) + (0.320 x 98)] / 8.090

EX-DA5
Hyd. No. 5 -- 25 Year
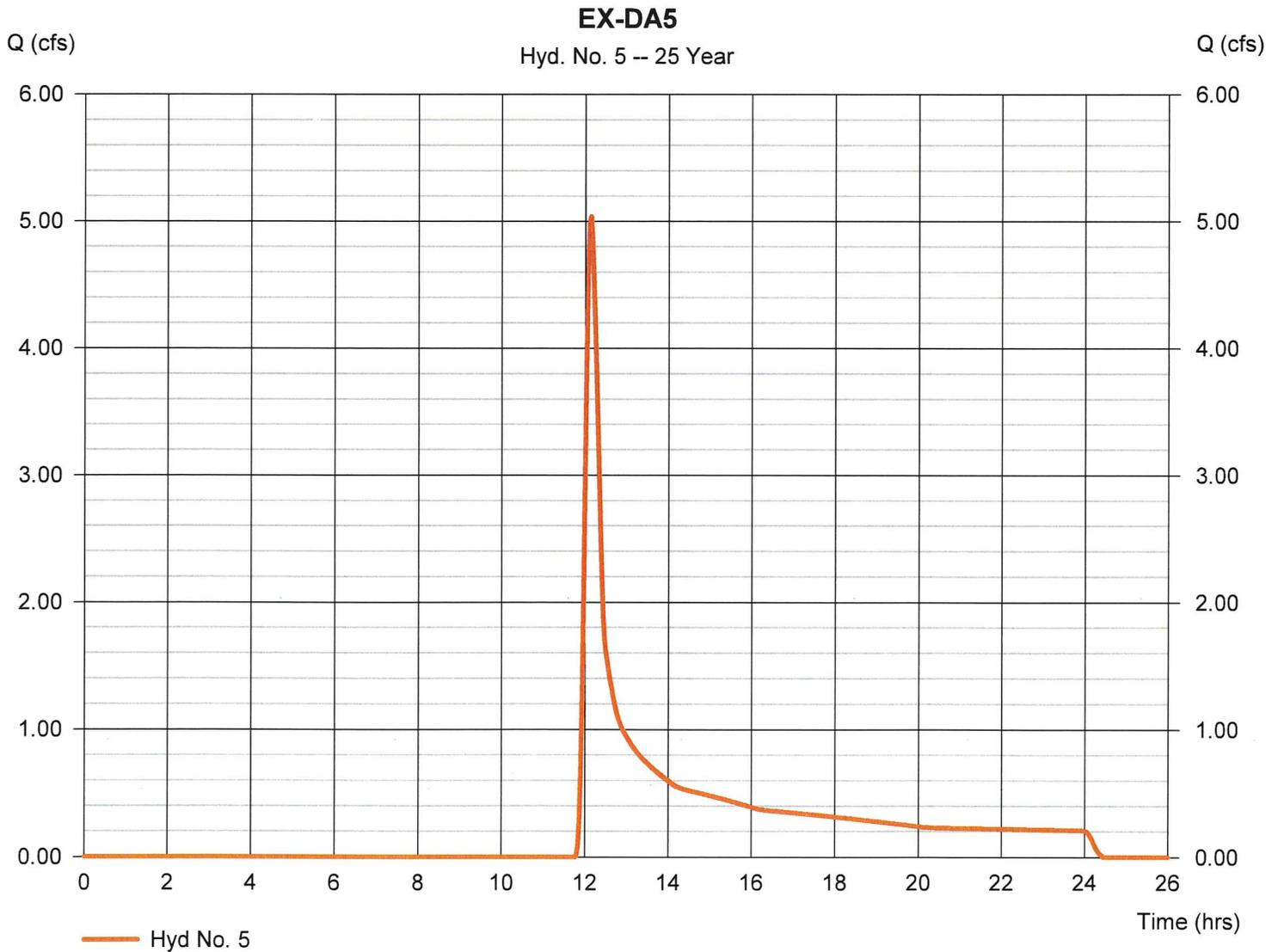
Hyd No. 5

Hydrograph Report

Hyd. No. 6

EX-DA-Road Widening

Hydrograph type	= SCS Runoff	Peak discharge	= 10.56 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 27,790 cuft
Drainage area	= 1.980 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 12.60 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.200 x 77) + (1.000 x 74) + (0.780 x 98)] / 1.980

EX-DA-Road Widening

Hyd. No. 6 -- 25 Year

Hydrograph Report

Wednesday, 01 / 29 / 2025

Hyd. No. 7

EX-TOTAL

Hydrograph type	= Combine	Peak discharge	= 165.60 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 518,082 cuft
Inflow hyds.	= 1, 2, 3, 4, 5, 6	Contrib. drain. area	= 82.880 ac

EX-TOTAL

Hyd. No. 7 -- 25 Year

Legend:
— Hyd No. 7 — Hyd No. 1 — Hyd No. 2 — Hyd No. 3
— Hyd No. 4 — Hyd No. 5 — Hyd No. 6

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 8

PR-DA-A

Hydrograph type	= SCS Runoff	Peak discharge	= 91.97 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 213,089 cuft
Drainage area	= 12.400 ac	Curve number	= 96*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 6.30 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.200 x 39) + (0.450 x 80) + (11.750 x 98)] / 12.400

PR-DA-A

Hyd. No. 8 -- 25 Year
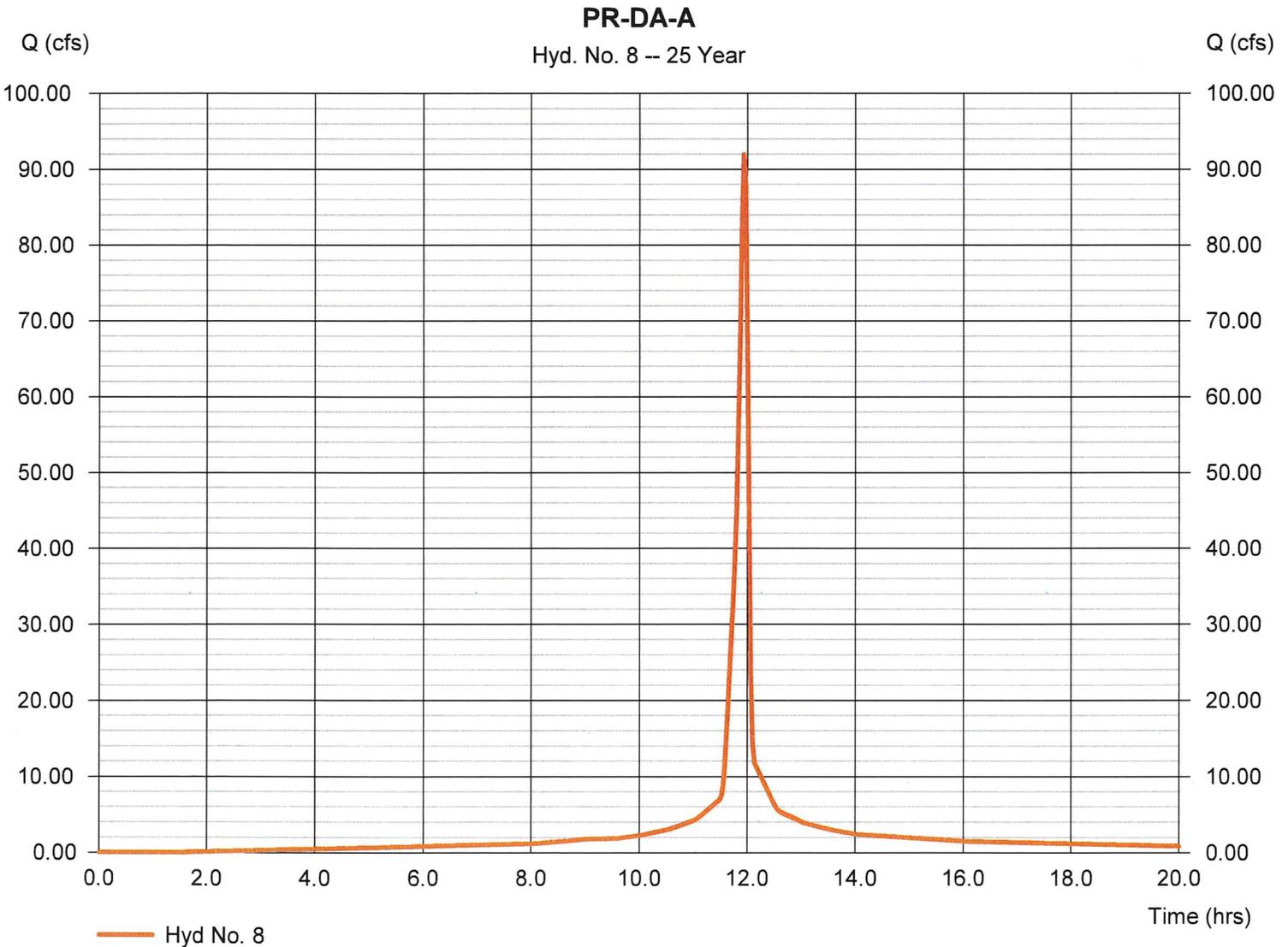
Hyd No. 8

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025 — Wednesday, 01 / 29 / 2025

Hyd. No. 9

PR-DA-B

Hydrograph type	= SCS Runoff	Peak discharge	= 116.22 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 269,283 cuft
Drainage area	= 15.670 ac	Curve number	= 96*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.100 x 39) + (1.610 x 80) + (13.960 x 98)] / 15.670

PR-DA-B

Hyd. No. 9 -- 25 Year
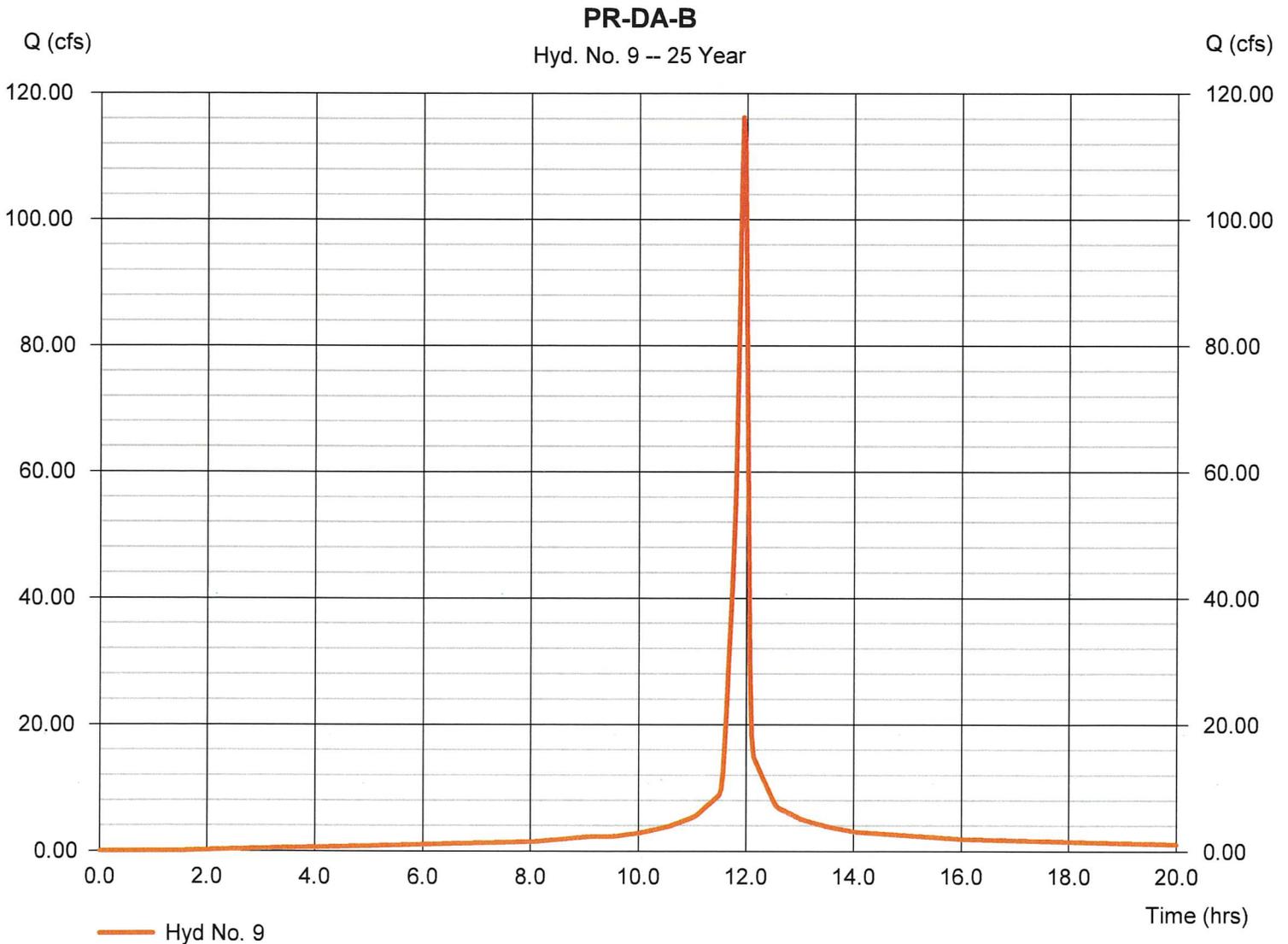
— Hyd No. 9

Hydrograph Report

Hyd. No. 10

PR-DA-C

Hydrograph type	= SCS Runoff	Peak discharge	= 203.76 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 493,598 cuft
Drainage area	= 31.050 ac	Curve number	= 90*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 9.50 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.830 x 39) + (5.270 x 80) + (22.950 x 98)] / 31.050

PR-DA-C

Hyd. No. 10 -- 25 Year
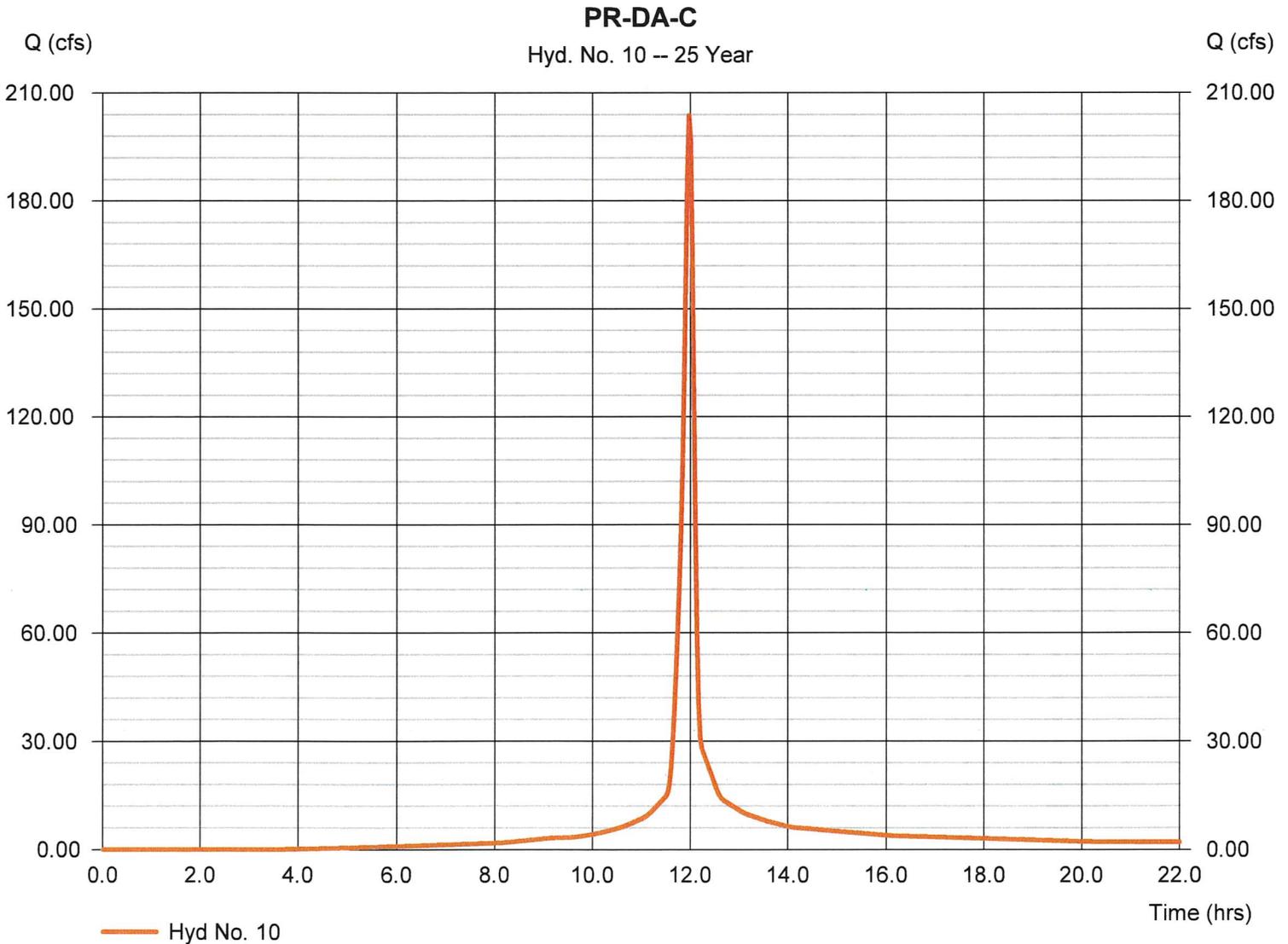
Hyd No. 10

Hydrograph Report

Hyd. No. 11

BMP A Routing

Hydrograph type	= Reservoir	Peak discharge	= 0.979 cfs
Storm frequency	= 25 yrs	Time to peak	= 19.17 hrs
Time interval	= 2 min	Hyd. volume	= 200,818 cuft
Inflow hyd. No.	= 8 - PR-DA-A	Max. Elevation	= 291.71 ft
Reservoir name	= BMP A	Max. Storage	= 167,526 cuft

Storage Indication method used.
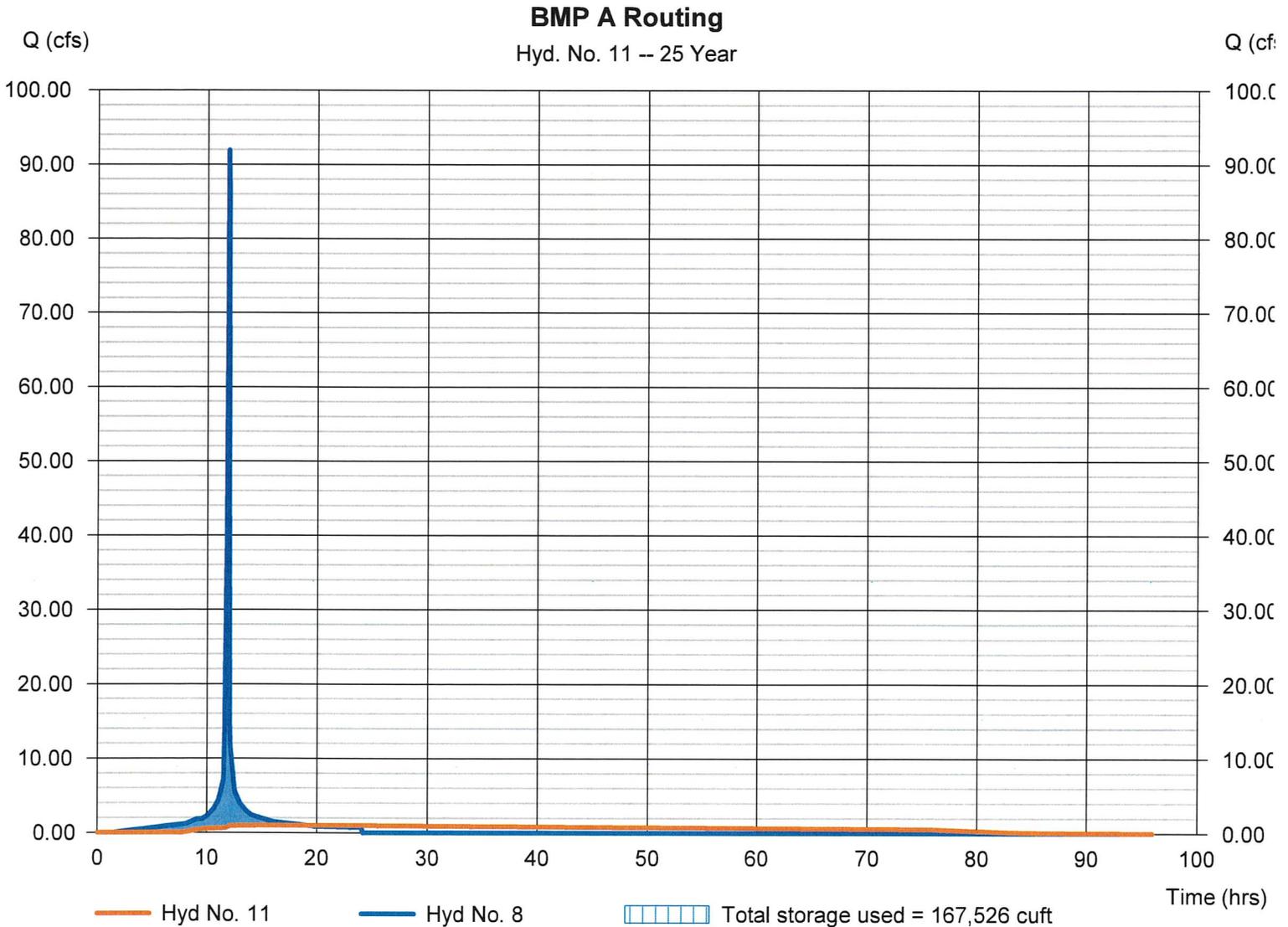
BMP A Routing

Hyd. No. 11 -- 25 Year

Hyd No. 11 —— Hyd No. 8 —— Total storage used = 167,526 cuft

Hydrograph Report

Hyd. No. 12

BMP B Routing

Hydrograph type	= Reservoir	Peak discharge	= 1.567 cfs
Storm frequency	= 25 yrs	Time to peak	= 17.53 hrs
Time interval	= 2 min	Hyd. volume	= 257,802 cuft
Inflow hyd. No.	= 9 - PR-DA-B	Max. Elevation	= 288.15 ft
Reservoir name	= BMP B	Max. Storage	= 200,289 cuft

Storage Indication method used.
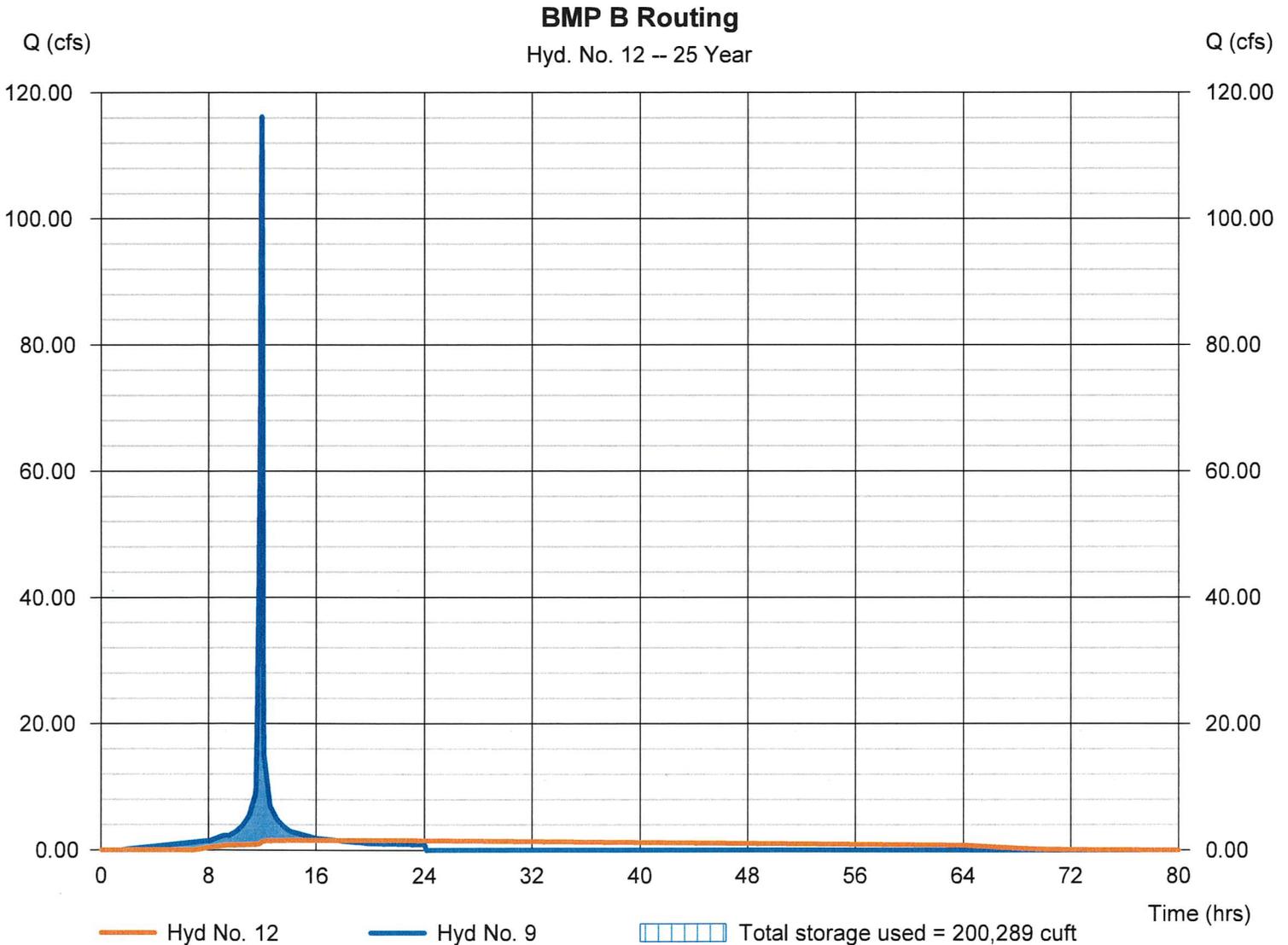
BMP B Routing

Hyd. No. 12 -- 25 Year

Hyd No. 12   Hyd No. 9   Total storage used = 200,289 cuft

Hydrograph Report

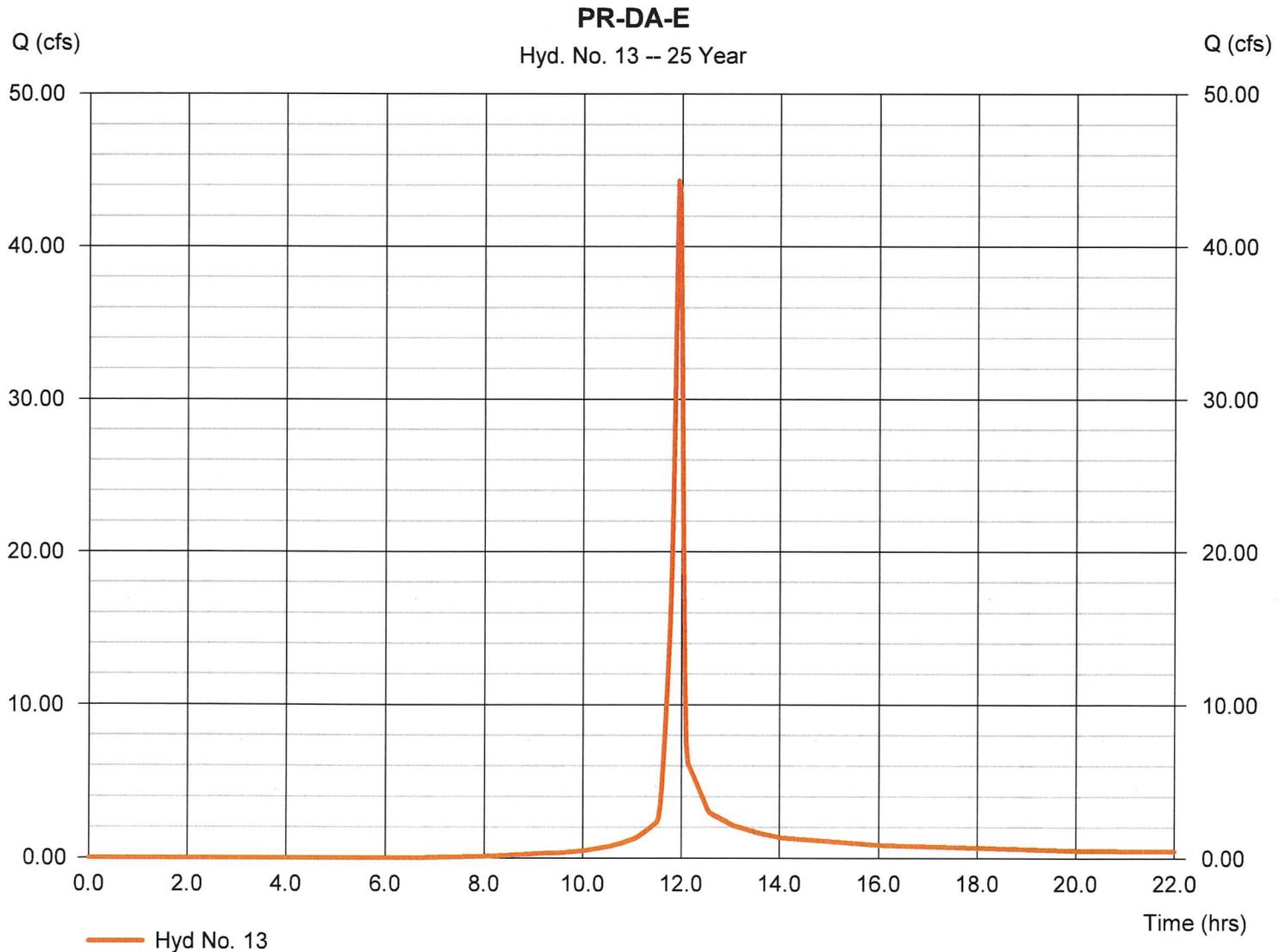Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 13

PR-DA-E

Hydrograph type	= SCS Runoff	Peak discharge	= 44.31 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 90,550 cuft
Drainage area	= 7.940 ac	Curve number	= 80*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.220 x 39) + (0.880 x 61) + (2.190 x 80) + (3.650 x 98)] / 7.940

PR-DA-E

Hyd. No. 13 -- 25 Year

— Hyd No. 13

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 14

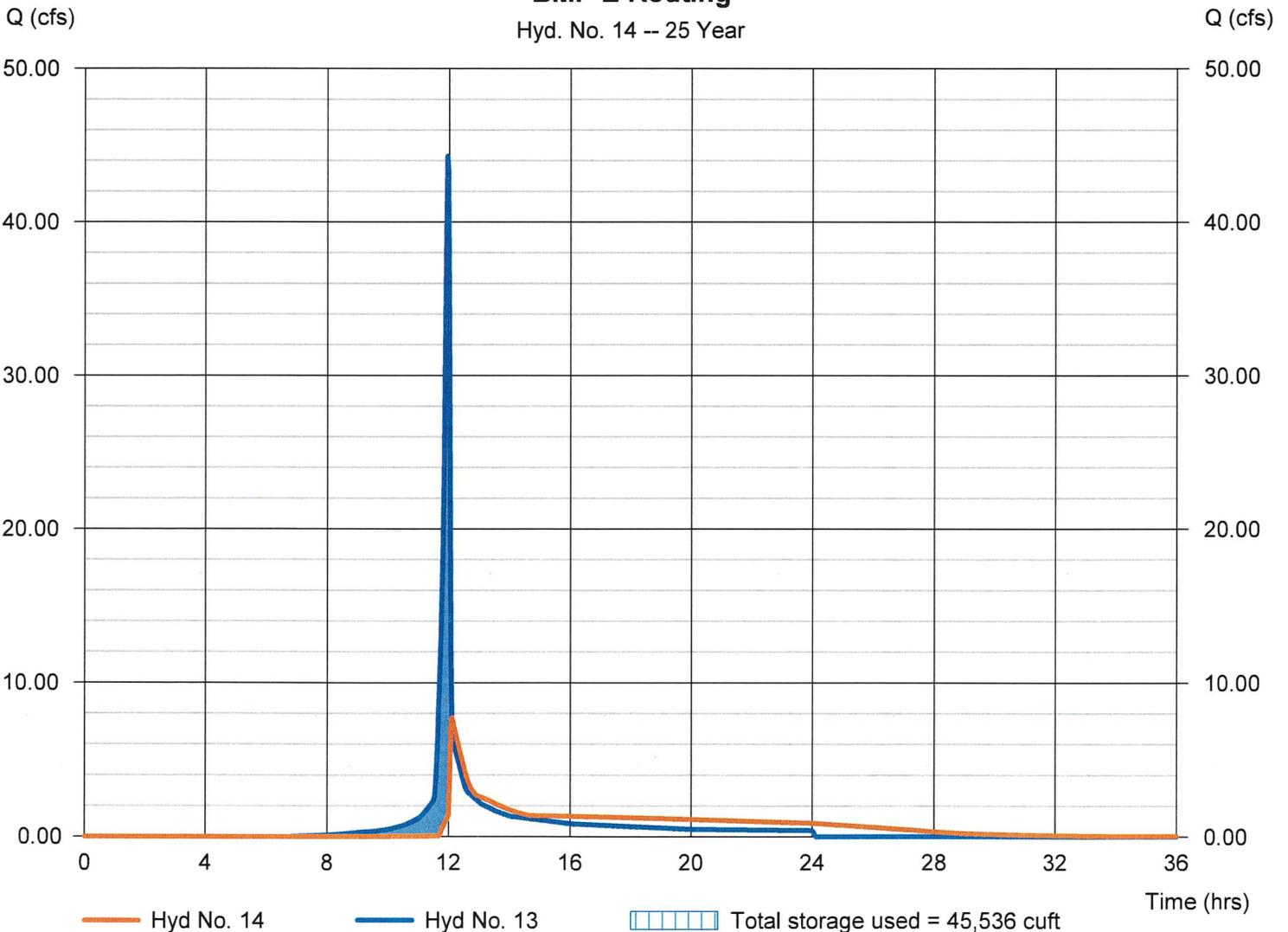BMP E Routing

Hydrograph type	= Reservoir	Peak discharge	= 7.733 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.10 hrs
Time interval	= 2 min	Hyd. volume	= 86,680 cuft
Inflow hyd. No.	= 13 - PR-DA-E	Max. Elevation	= 259.79 ft
Reservoir name	= BMP E	Max. Storage	= 45,536 cuft

Storage Indication method used.

BMP E Routing
Hyd. No. 14 -- 25 Year

Hyd No. 14   Hyd No. 13   Total storage used = 45,536 cuft

Hydrograph Report

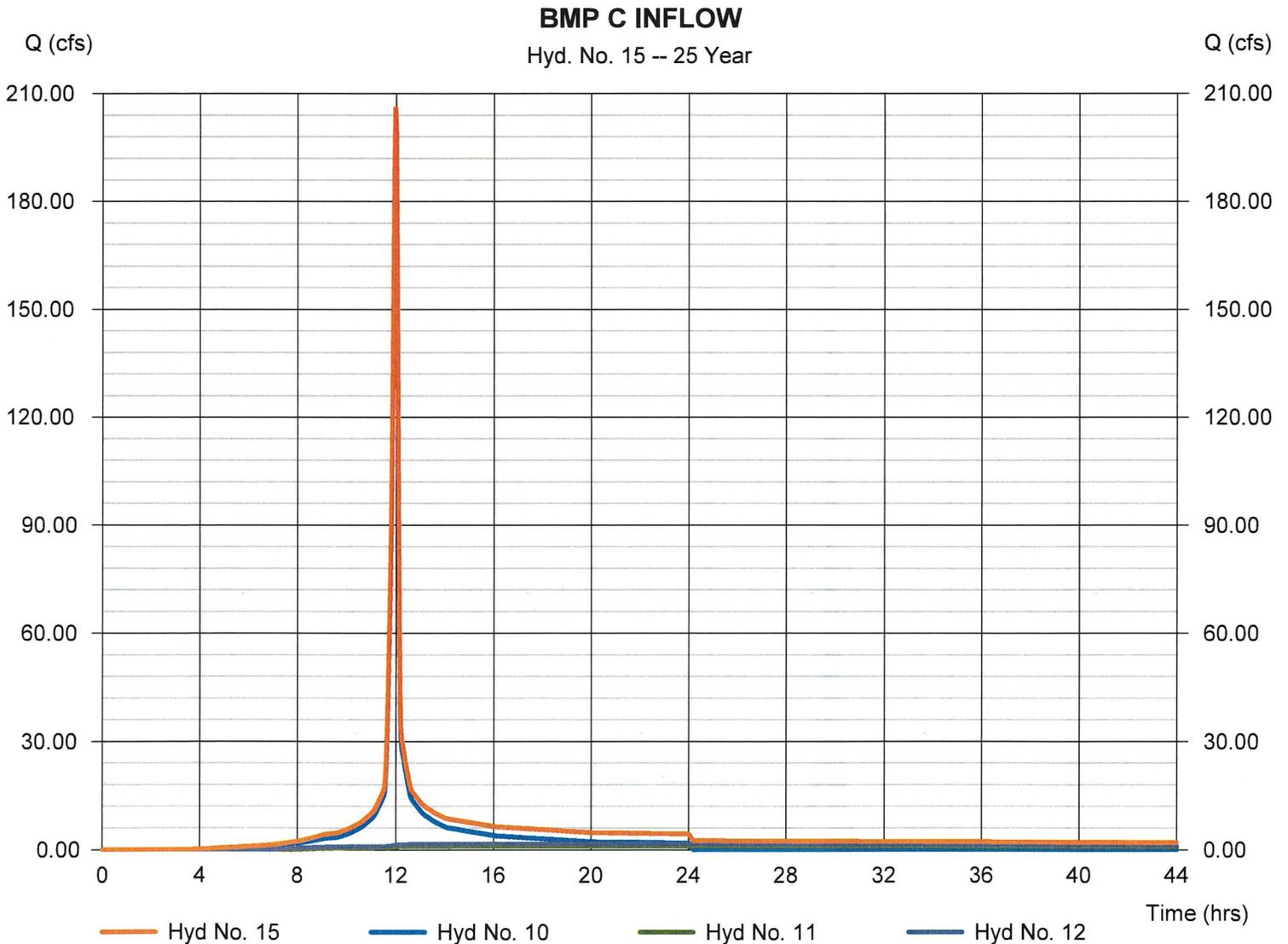Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 15

BMP C INFLOW

Hydrograph type	= Combine	Peak discharge	= 205.90 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 952,218 cuft
Inflow hyds.	= 10, 11, 12	Contrib. drain. area	= 31.050 ac

BMP C INFLOW

Hyd. No. 15 -- 25 Year

Legend: Hyd No. 15, Hyd No. 10, Hyd No. 11, Hyd No. 12

Hydrograph Report

Hyd. No. 16

MRC BMP C Routing(DP1)

Hydrograph type	= Reservoir	Peak discharge	= 9.544 cfs
Storm frequency	= 25 yrs	Time to peak	= 13.83 hrs
Time interval	= 2 min	Hyd. volume	= 878,628 cuft
Inflow hyd. No.	= 15 - BMP C INFLOW	Max. Elevation	= 218.51 ft
Reservoir name	= BMP C	Max. Storage	= 346,023 cuft

Storage Indication method used.
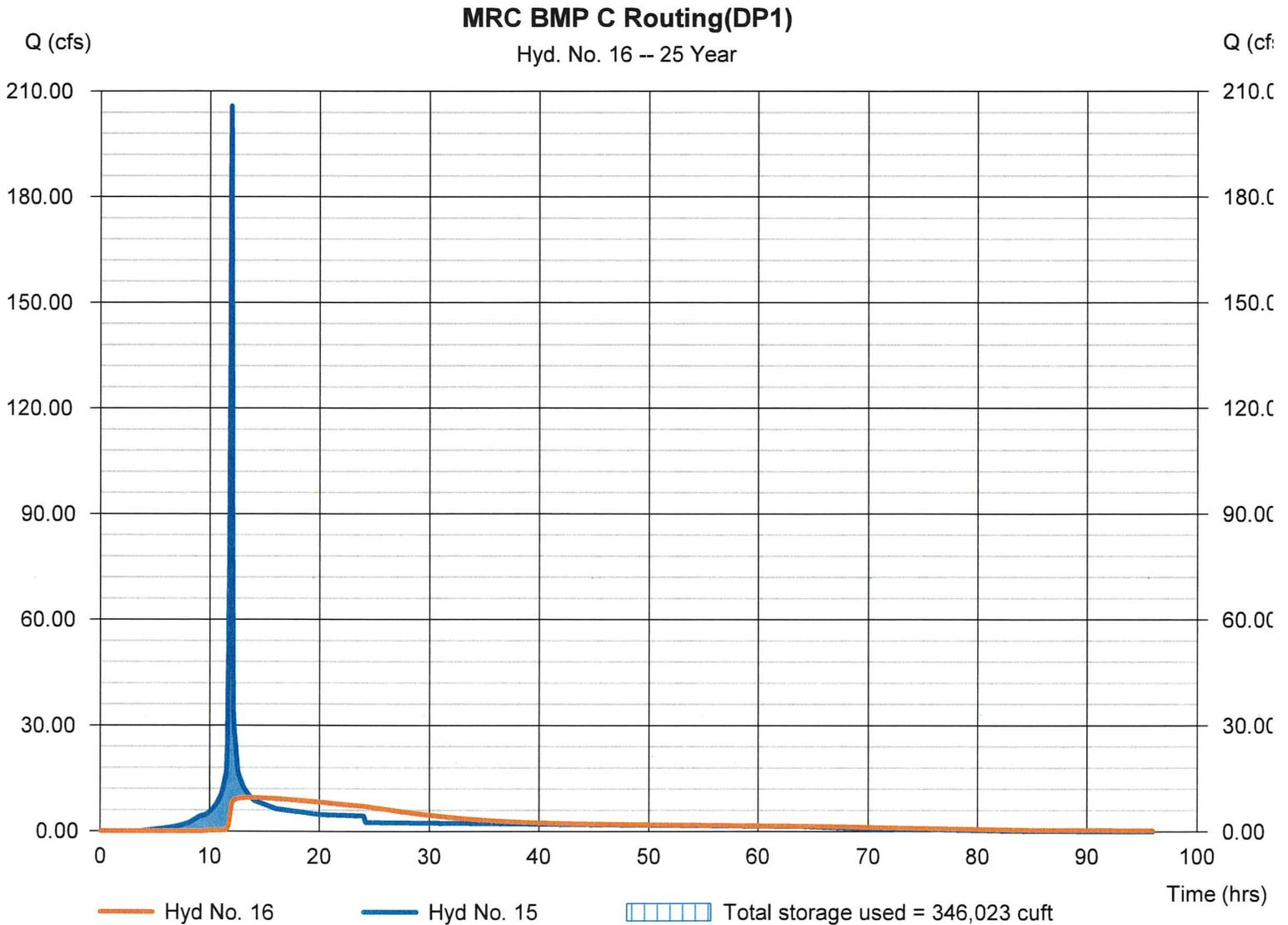
MRC BMP C Routing(DP1)
Hyd. No. 16 -- 25 Year

Hyd No. 16   Hyd No. 15   Total storage used = 346,023 cuft

Hydrograph Report

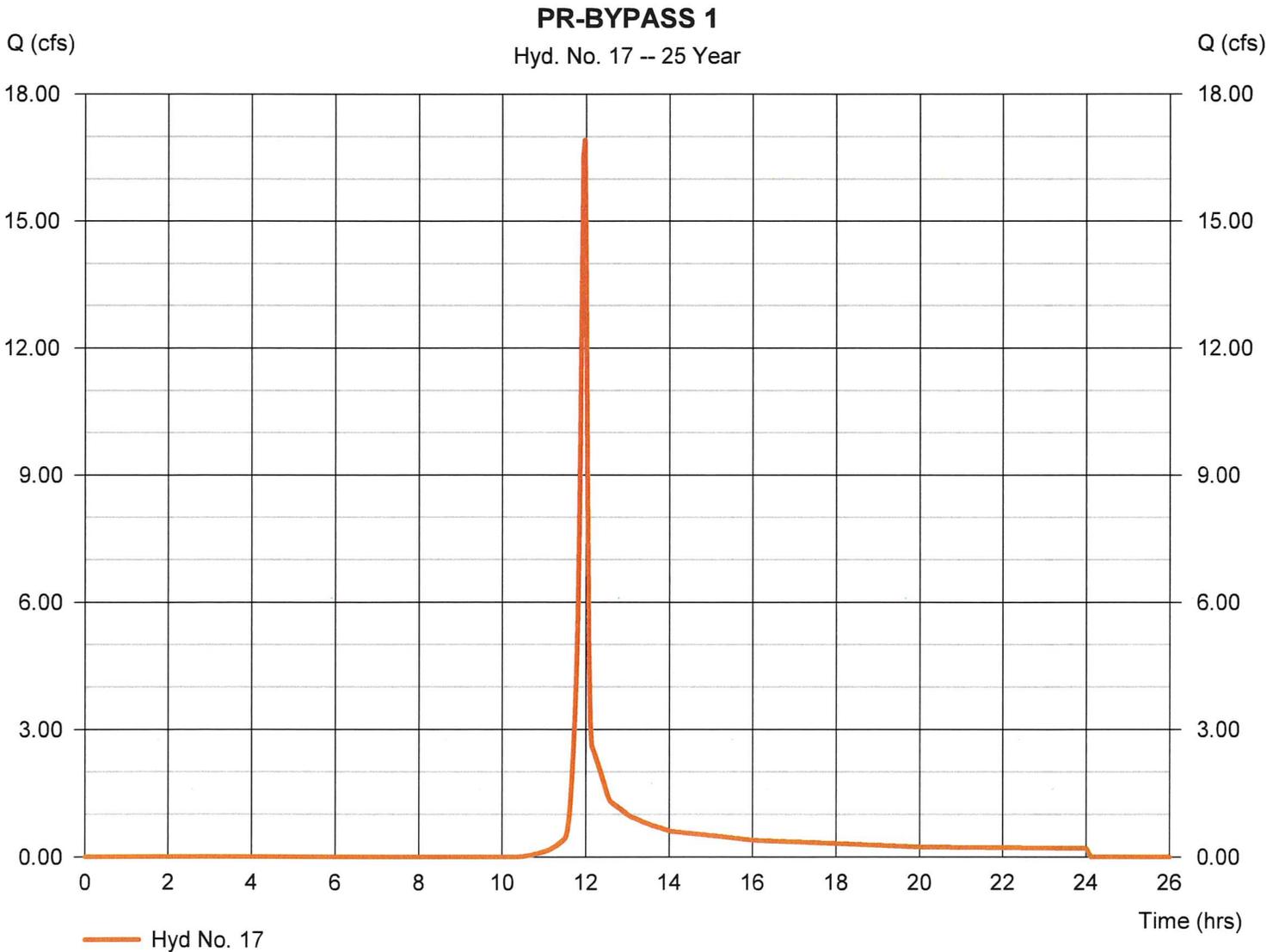Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 17

PR-BYPASS 1

Hydrograph type	= SCS Runoff	Peak discharge	= 16.92 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 33,838 cuft
Drainage area	= 4.950 ac	Curve number	= 65*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 6.30 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.830 x 39) + (1.480 x 61) + (1.640 x 98)] / 4.950

PR-BYPASS 1

Hyd. No. 17 -- 25 Year

Hyd No. 17

Hydrograph Report

Hyd. No. 18

PR RG

Hydrograph type	= SCS Runoff	Peak discharge	= 4.786 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 10,964 cuft
Drainage area	= 1.200 ac	Curve number	= 71*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 7.40 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.410 x 80) + (0.690 x 61) + (0.100 x 98)] / 1.200

PR RG

Hyd. No. 18 -- 25 Year

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

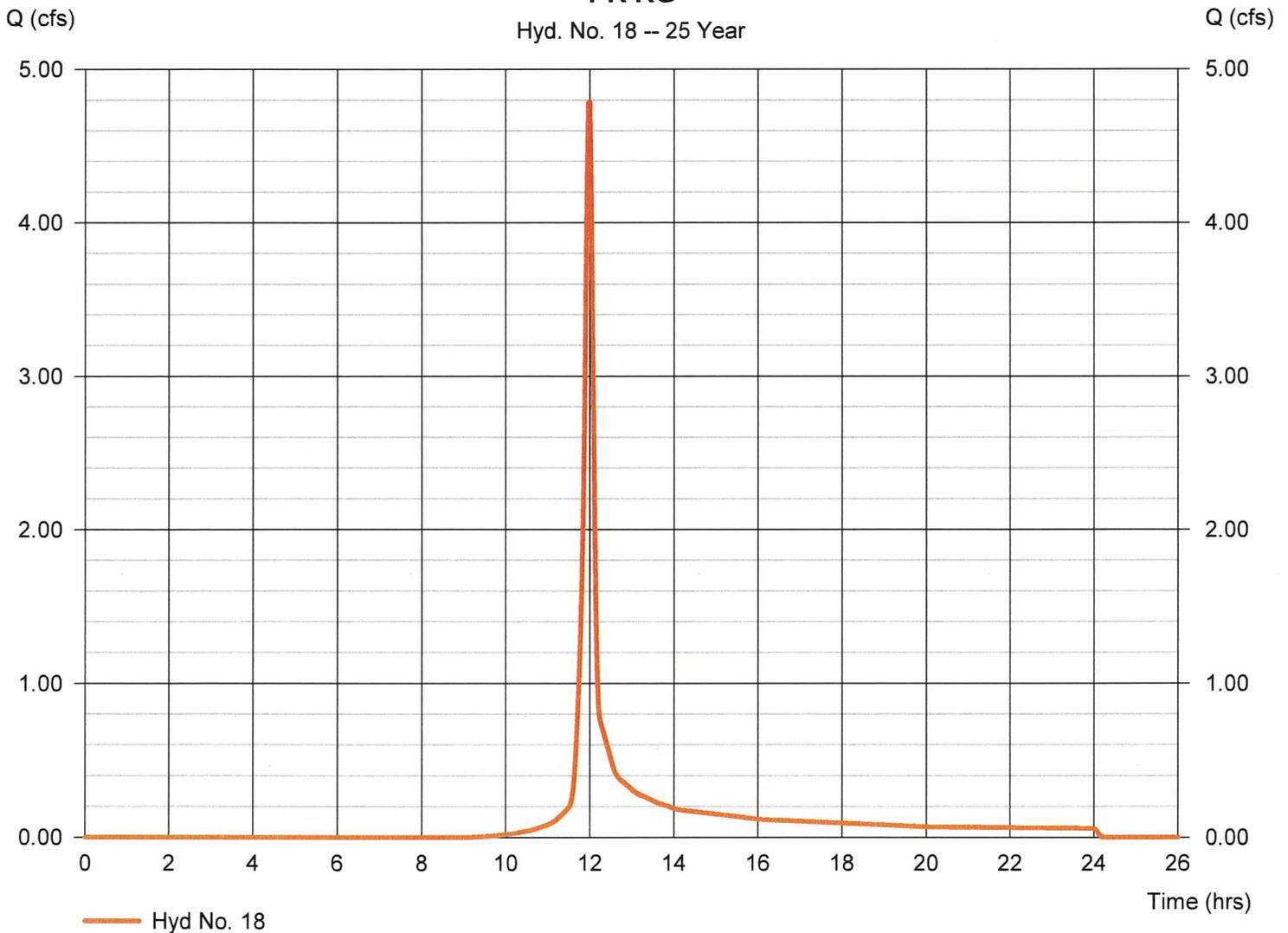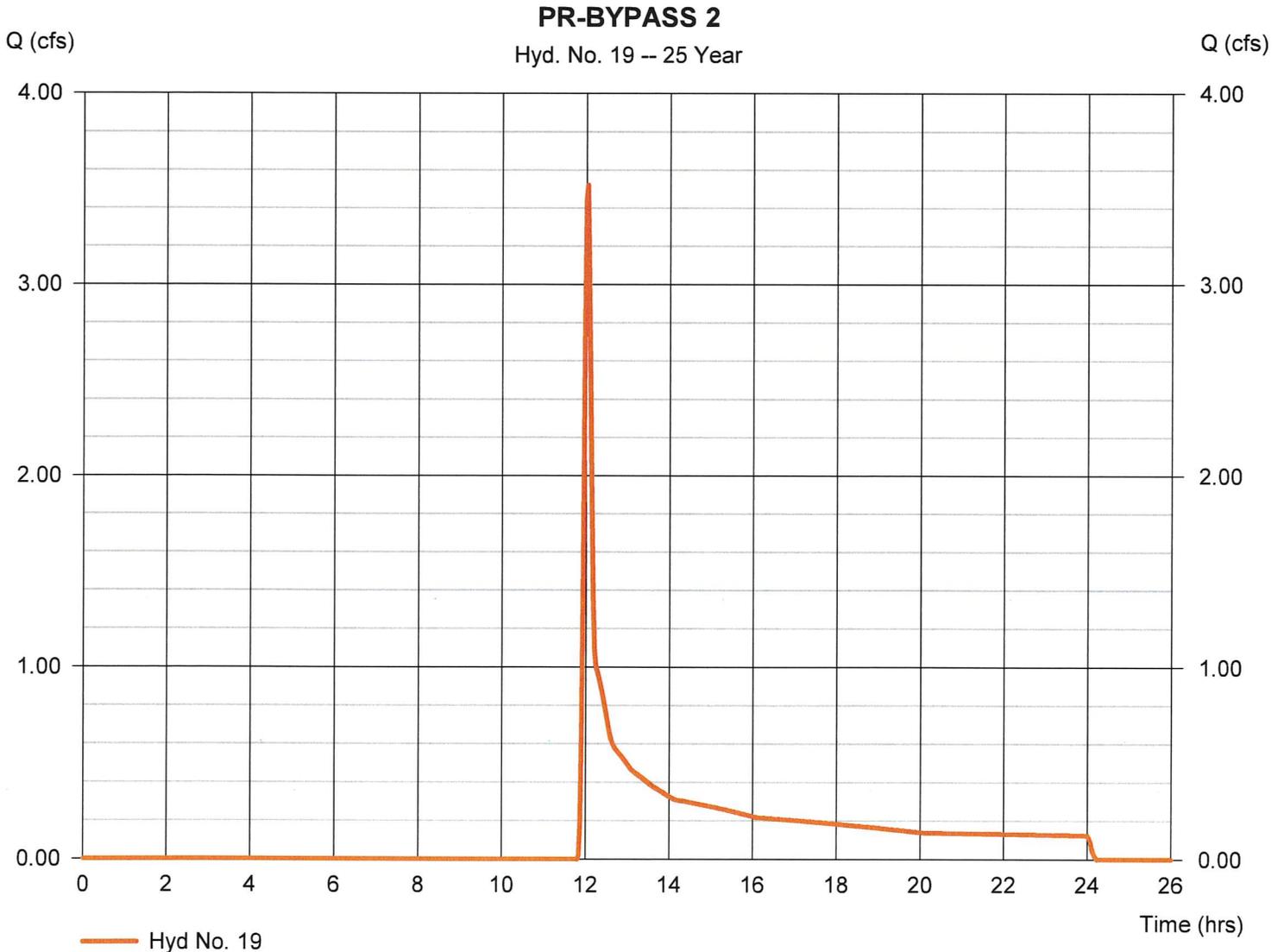## Hyd. No. 19

PR-BYPASS 2

Hydrograph type	= SCS Runoff	Peak discharge	= 3.522 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 12,562 cuft
Drainage area	= 5.600 ac	Curve number	= 45*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 9.50 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(4.520 x 39) + (0.490 x 61) + (0.530 x 80) + (0.060 x 98)] / 5.600

PR-BYPASS 2

Hyd. No. 19 -- 25 Year

Hyd No. 19

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 20

PR-BYPASS 3

Hydrograph type	= SCS Runoff	Peak discharge	= 7.247 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 14,564 cuft
Drainage area	= 2.530 ac	Curve number	= 61*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 4.90 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.530 x 61)] / 2.530

PR-BYPASS 3

Hyd. No. 20 -- 25 Year
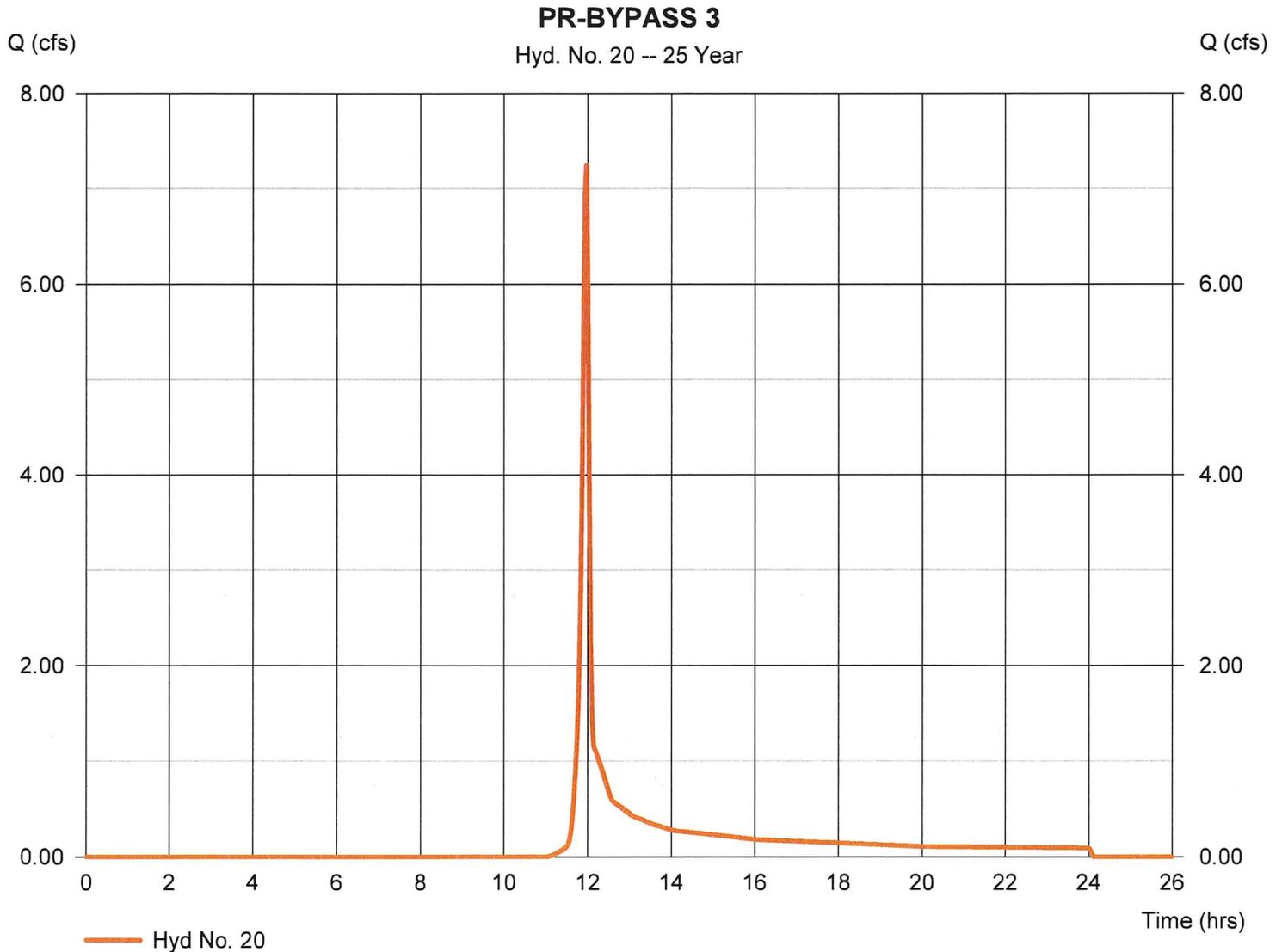
Hyd No. 20

Hydrograph Report

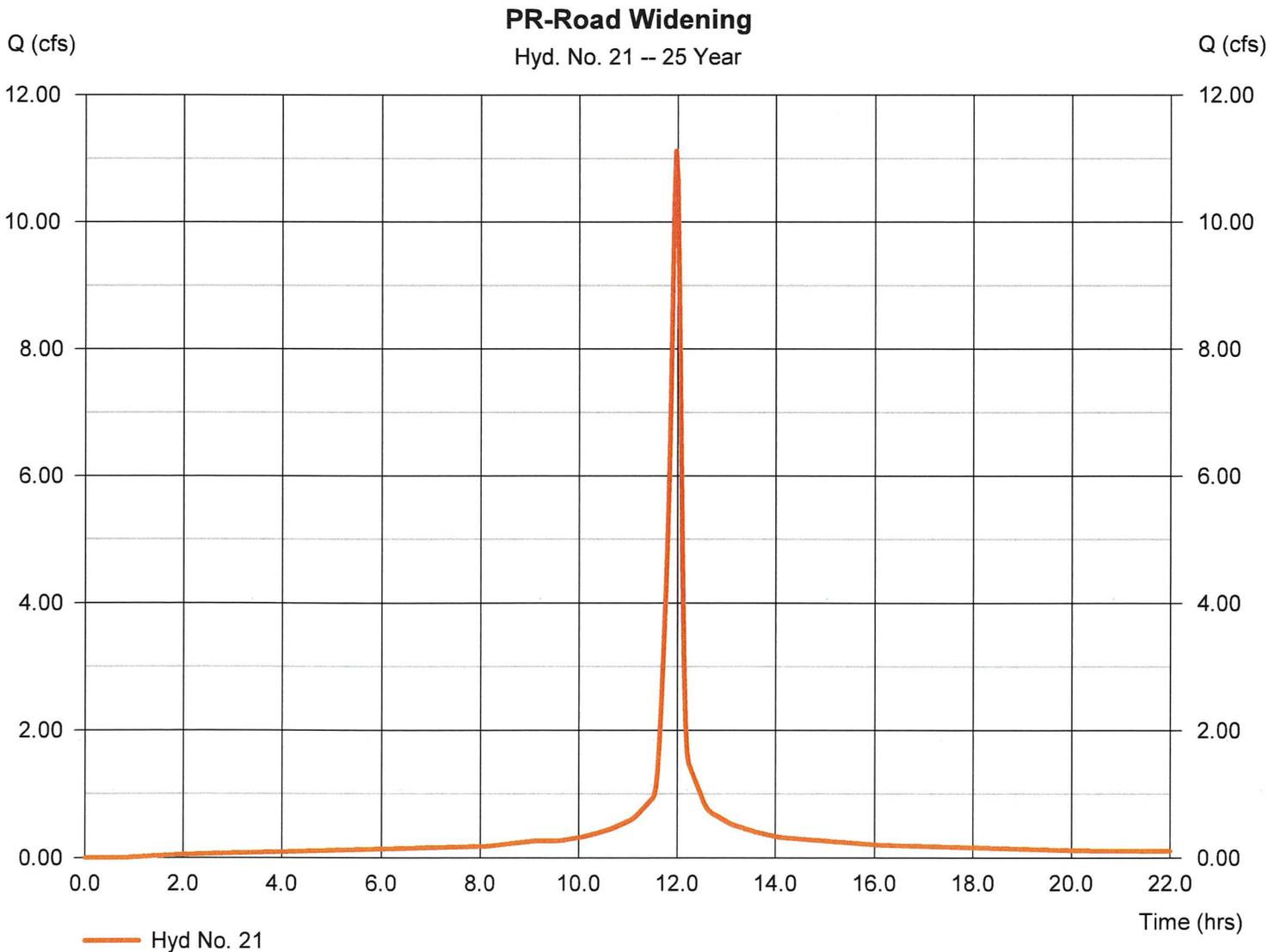Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 21

PR-Road Widening

Hydrograph type	= SCS Runoff	Peak discharge	= 11.12 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 29,722 cuft
Drainage area	= 1.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 7.70 min
Total precip.	= 5.52 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

PR-Road Widening
Hyd. No. 21 -- 25 Year

— Hyd No. 21

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No. 22

BMP E Outflow + PR Road Widening

Hydrograph type	= Combine	Peak discharge	= 17.54 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 127,366 cuft
Inflow hyds.	= 14, 18, 21	Contrib. drain. area	= 2.750 ac

BMP E Outflow + PR Road Widening
Hyd. No. 22 -- 25 Year
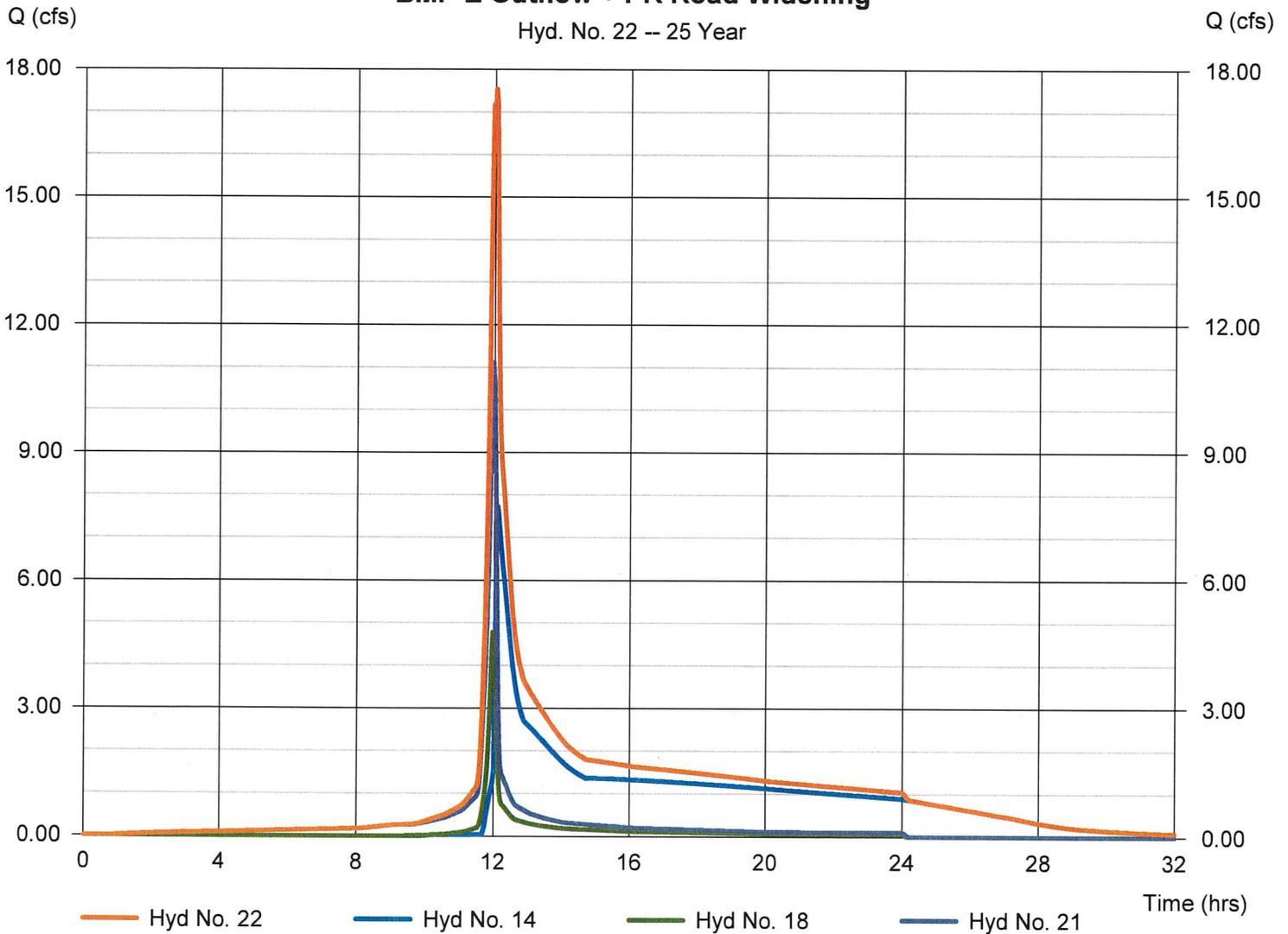
Legend:
— Hyd No. 22 — Hyd No. 14 — Hyd No. 18 — Hyd No. 21

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 23

RG Routing (DP2)

Hydrograph type	= Reservoir	Peak discharge	= 17.11 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 114,352 cuft
Inflow hyd. No.	= 22 - BMP E Outflow + PR Road Widening	Max. Elevation	= 233.22 ft
Reservoir name	= Hacket Rain Garden	Max. Storage	= 17,634 cuft

Storage Indication method used.

RG Routing (DP2)

Hyd. No. 23 -- 25 Year

Hyd No. 23   Hyd No. 22   Total storage used = 17,634 cuft

Hydrograph Report

Hyd. No. 24

PR-BYPASS

Hydrograph type	= Combine	Peak discharge	= 26.90 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 60,963 cuft
Inflow hyds.	= 17, 19, 20	Contrib. drain. area	= 13.080 ac

PR-BYPASS
Hyd. No. 24 -- 25 Year

Legend: Hyd No. 24 — Hyd No. 17 — Hyd No. 19 — Hyd No. 20
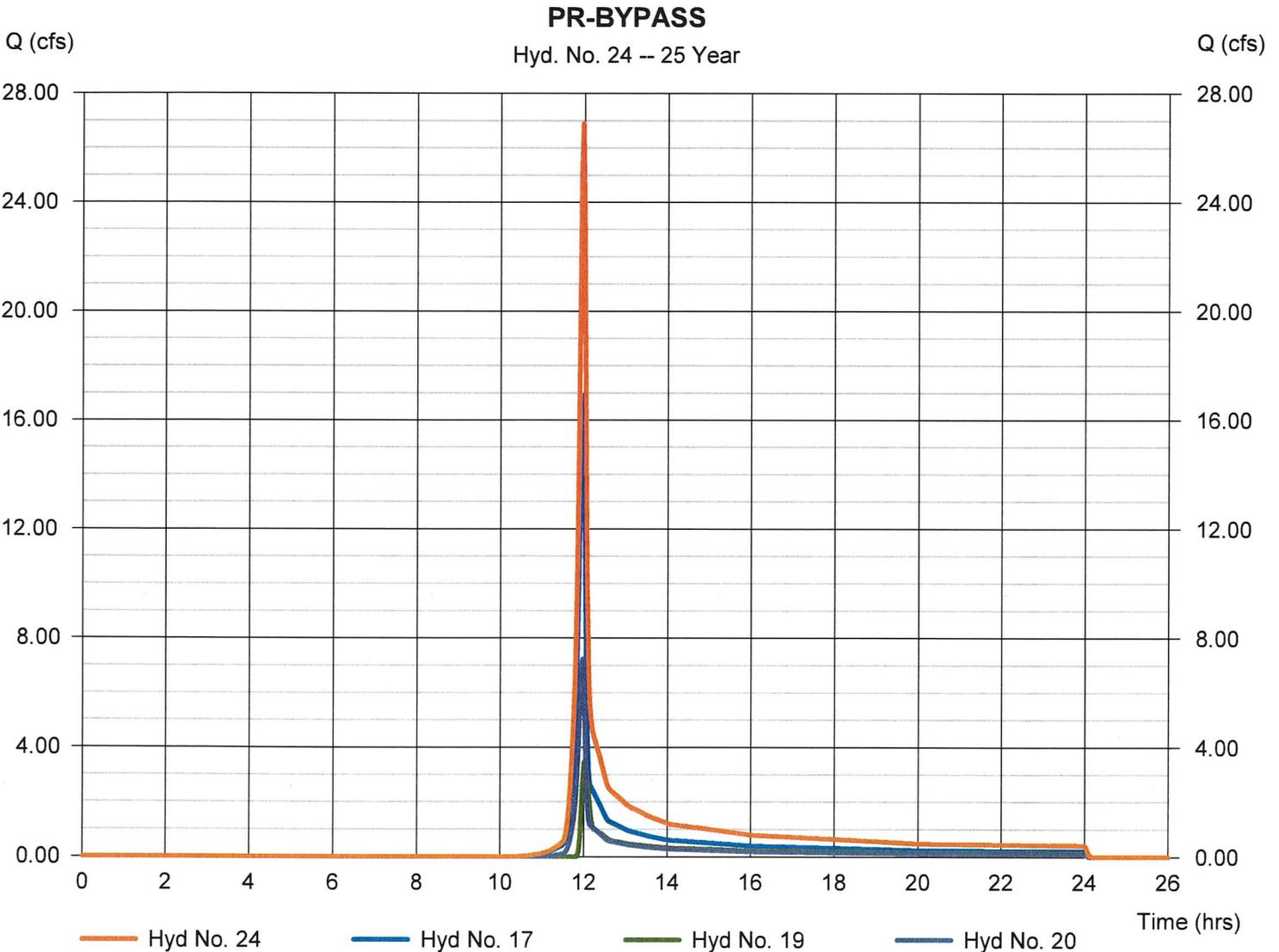
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025
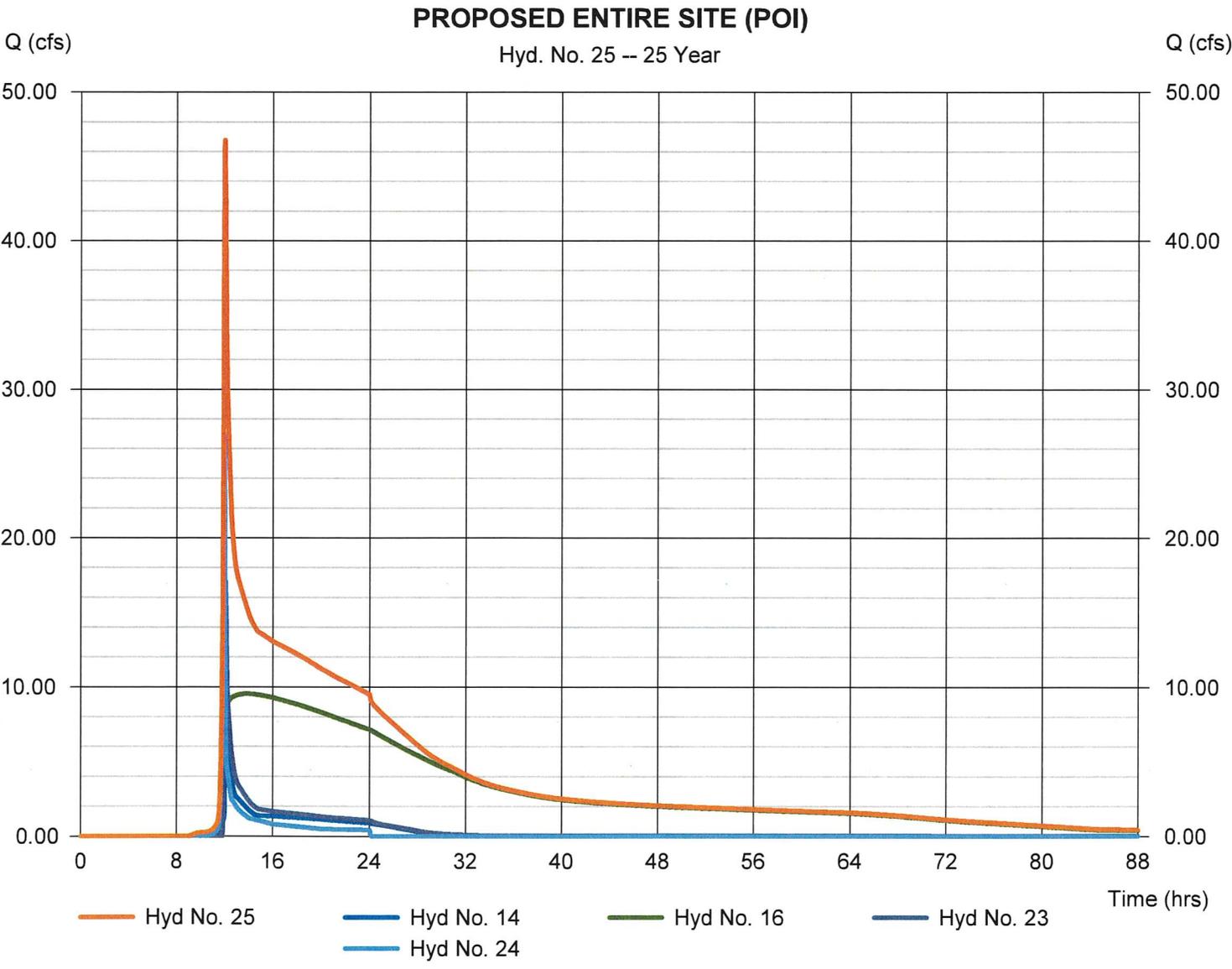
Hyd. No. 25

PROPOSED ENTIRE SITE (POI)

Hydrograph type	= Combine	Peak discharge	= 46.78 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 1,140,624 cuft
Inflow hyds.	= 14, 16, 23, 24	Contrib. drain. area	= 0.000 ac

PROPOSED ENTIRE SITE (POI)
Hyd. No. 25 -- 25 Year

Legend: Hyd No. 25, Hyd No. 14, Hyd No. 16, Hyd No. 23, Hyd No. 24

Hydrograph Report

Hyd. No. 26

EX-to- Bushkill

Hydrograph type	= Combine	Peak discharge	= 65.97 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 195,116 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 35.550 ac
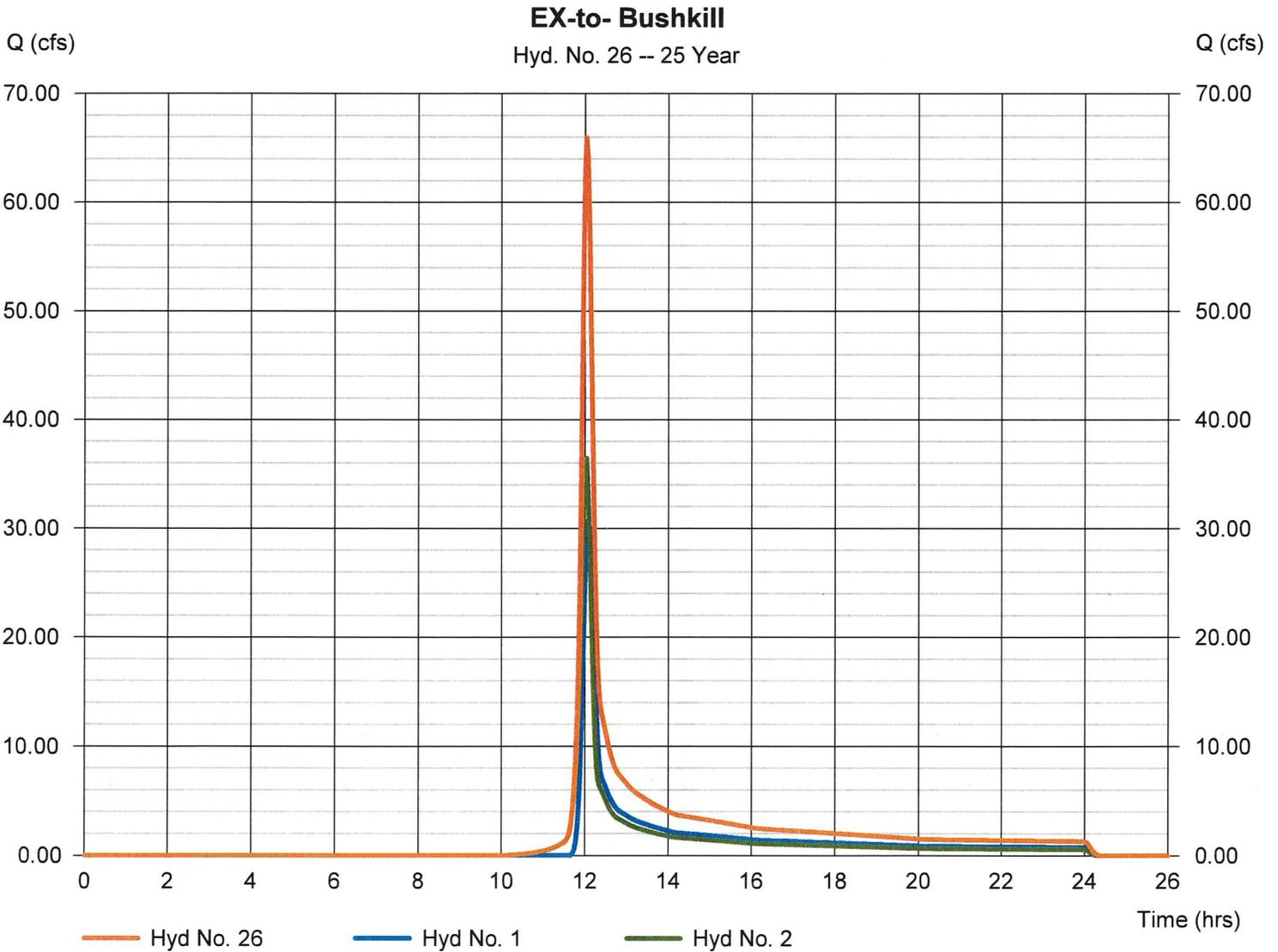
EX-to- Bushkill

Hyd. No. 26 -- 25 Year

Q (cfs) vs Time (hrs)

Legend: — Hyd No. 26   — Hyd No. 1   — Hyd No. 2

Hydrograph Report

Wednesday, 01 / 29 / 2025

Hyd. No. 27

PR-to-Bushkill

Hydrograph type	= Combine	Peak discharge	= 24.17 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 48,401 cuft
Inflow hyds.	= 17, 20	Contrib. drain. area	= 7.480 ac

PR-to-Bushkill

Hyd. No. 27 -- 25 Year

Hyd No. 27 —— Hyd No. 17 —— Hyd No. 20 ——

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No. 28

EX-to-UNT

Hydrograph type	= Combine	Peak discharge	= 99.62 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 322,966 cuft
Inflow hyds.	= 3, 4, 5, 6	Contrib. drain. area	= 47.330 ac

EX-to-UNT

Hyd. No. 28 -- 25 Year

Legend:
— Hyd No. 28   — Hyd No. 3   — Hyd No. 4   — Hyd No. 5
— Hyd No. 6

Hydrograph Report

Hyd. No. 29

PR-to-UNT (DPs 001& 002)

Hydrograph type	= Combine	Peak discharge	= 31.84 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 1,016,506 cuft
Inflow hyds.	= 16, 18, 19, 23	Contrib. drain. area	= 6.800 ac
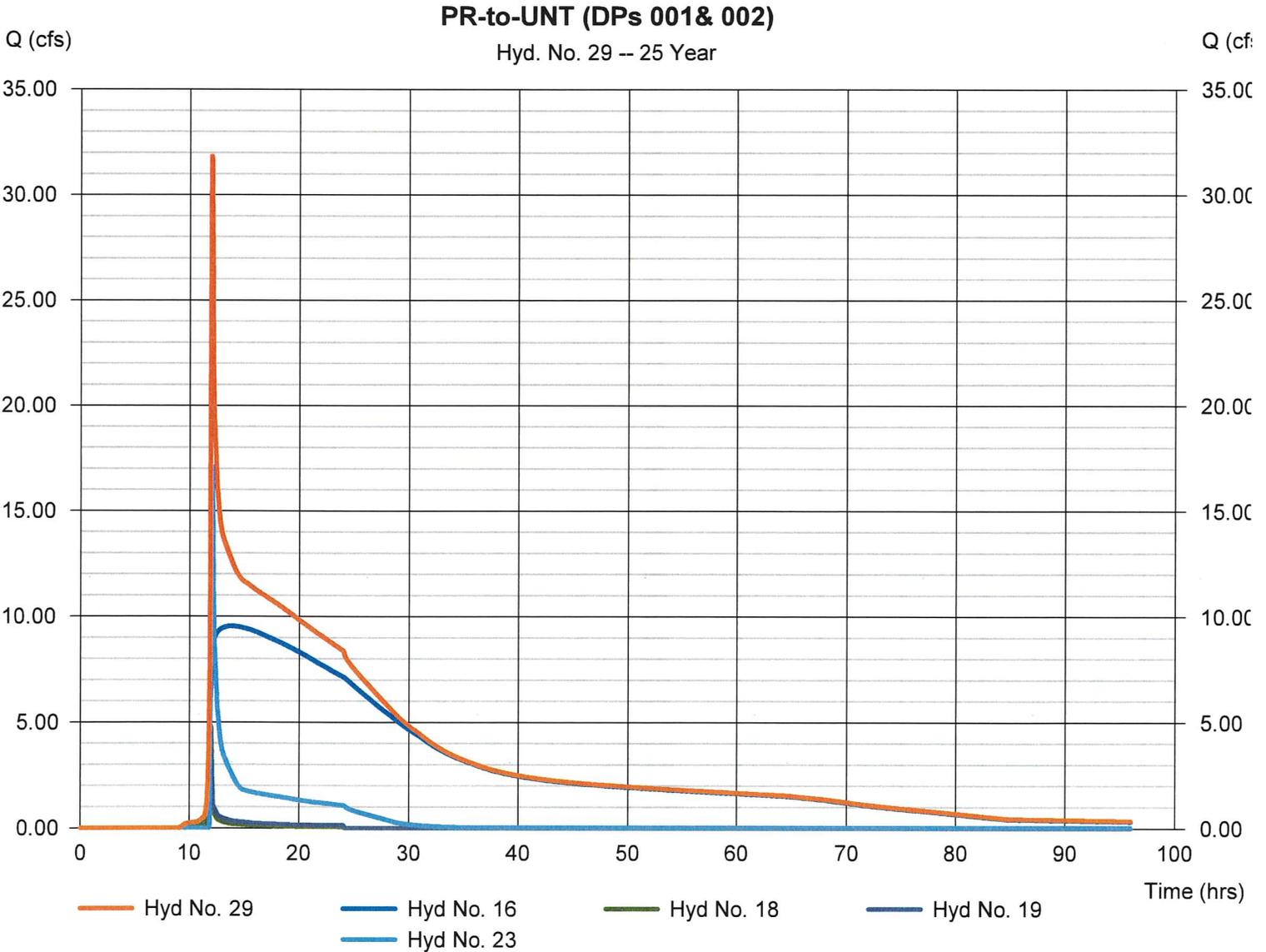
PR-to-UNT (DPs 001& 002)

Hyd. No. 29 -- 25 Year

Q (cfs)

─── Hyd No. 29	─── Hyd No. 16
─── Hyd No. 18	─── Hyd No. 19
─── Hyd No. 23	

Time (hrs)

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

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	65.95	2	724	194,360	------	------	------	EX-DA 1
2	SCS Runoff	62.09	2	720	161,178	------	------	------	EX-DA2
3	SCS Runoff	93.46	2	726	299,808	------	------	------	EX-DA3
4	SCS Runoff	62.50	2	720	163,723	------	------	------	EX-DA4
5	SCS Runoff	14.14	2	726	50,700	------	------	------	EX-DA5
6	SCS Runoff	15.39	2	720	41,204	------	------	------	EX-DA-Road Widening
7	Combine	303.92	2	722	910,973	1, 2, 3, 4, 5, 6	------	------	EX-TOTAL
8	SCS Runoff	124.84	2	716	293,802	------	------	------	PR-DA-A
9	SCS Runoff	157.76	2	716	371,280	------	------	------	PR-DA-B
10	SCS Runoff	284.74	2	718	704,998	------	------	------	PR-DA-C
11	Reservoir	1.125	2	1210	272,389	8	292.49	236,618	BMP A Routing
12	Reservoir	2.243	2	1026	359,735	9	288.98	276,625	BMP B Routing
13	SCS Runoff	66.27	2	716	137,862	------	------	------	PR-DA-E
14	Reservoir	31.89	2	722	133,847	13	260.69	59,058	BMP E Routing
15	Combine	287.19	2	718	1,337,122	10, 11, 12,	------	------	BMP C INFLOW
16	Reservoir	12.11	2	840	1,244,777	15	219.67	499,313	MRC BMP C Routing(DP1)
17	SCS Runoff	28.81	2	718	58,058	------	------	------	PR-BYPASS 1
18	SCS Runoff	7.790	2	718	17,845	------	------	------	PR RG
19	SCS Runoff	11.53	2	720	29,459	------	------	------	PR-BYPASS 2
20	SCS Runoff	13.00	2	718	26,034	------	------	------	PR-BYPASS 3
21	SCS Runoff	15.02	2	718	40,514	------	------	------	PR-Road Widening
22	Combine	53.64	2	720	192,206	14, 18, 21	------	------	BMP E Outflow + PR Road Widening
23	Reservoir	51.29	2	722	179,192	22	233.70	21,180	RG Routing (DP2)
24	Combine	52.43	2	718	113,551	17, 19, 20,	------	------	PR-BYPASS
25	Combine	136.30	2	720	1,671,372	14, 16, 23, 24	------	------	PROPOSED ENTIRE SITE (POI)
26	Combine	126.98	2	722	355,538	1, 2,	------	------	EX-to- Bushkill
27	Combine	41.81	2	718	84,092	17, 20,	------	------	PR-to-Bushkill
28	Combine	176.94	2	722	555,436	3, 4, 5, 6,	------	------	EX-to-UNT
29	Combine	78.84	2	722	1,471,274	16, 18, 19, 23,	------	------	PR-to-UNT (DPs 001& 002)

24hours_Sep for LVPC.gpw	Return Period: 100 Year	Wednesday, 01 / 29 / 2025

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 2

EX-DA2

Hydrograph type	= SCS Runoff	Peak discharge	= 62.09 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 161,178 cuft
Drainage area	= 11.760 ac	Curve number	= 67*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 13.10 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.060 x 39) + (5.190 x 77) + (1.370 x 30) + (1.600 x 74) + (1.540 x 98)] / 11.760

EX-DA2
Hyd. No. 2 -- 100 Year
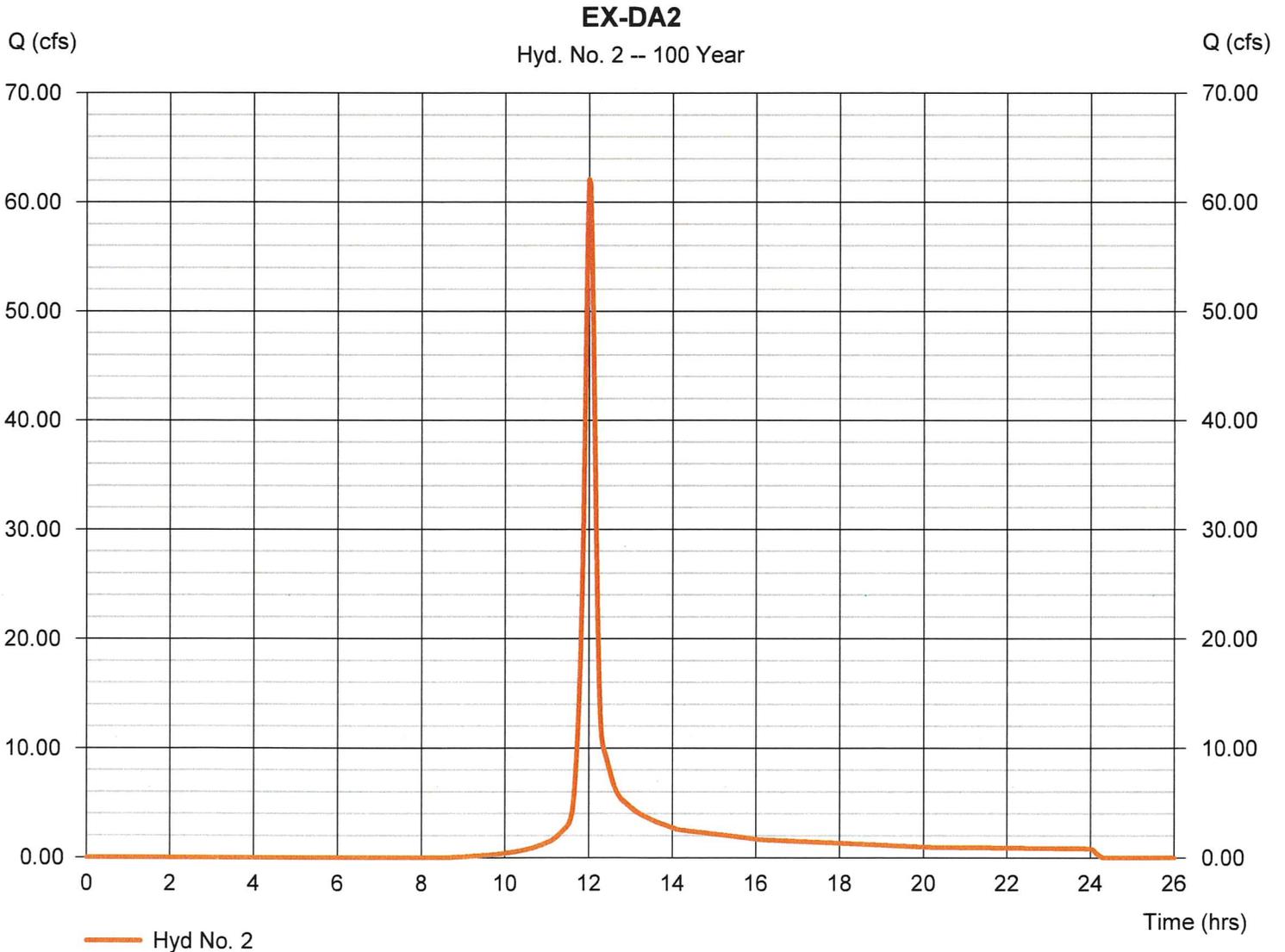
Hyd No. 2

Hydrograph Report

Hyd. No. 3

EX-DA3

Hydrograph type	= SCS Runoff	Peak discharge	= 93.46 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.10 hrs
Time interval	= 2 min	Hyd. volume	= 299,808 cuft
Drainage area	= 28.290 ac	Curve number	= 60*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 18.90 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.920 x 39) + (11.890 x 77) + (0.630 x 61) + (7.210 x 30) + (4.530 x 70) + (1.110 x 98)] / 28.290

EX-DA3

Hyd. No. 3 -- 100 Year
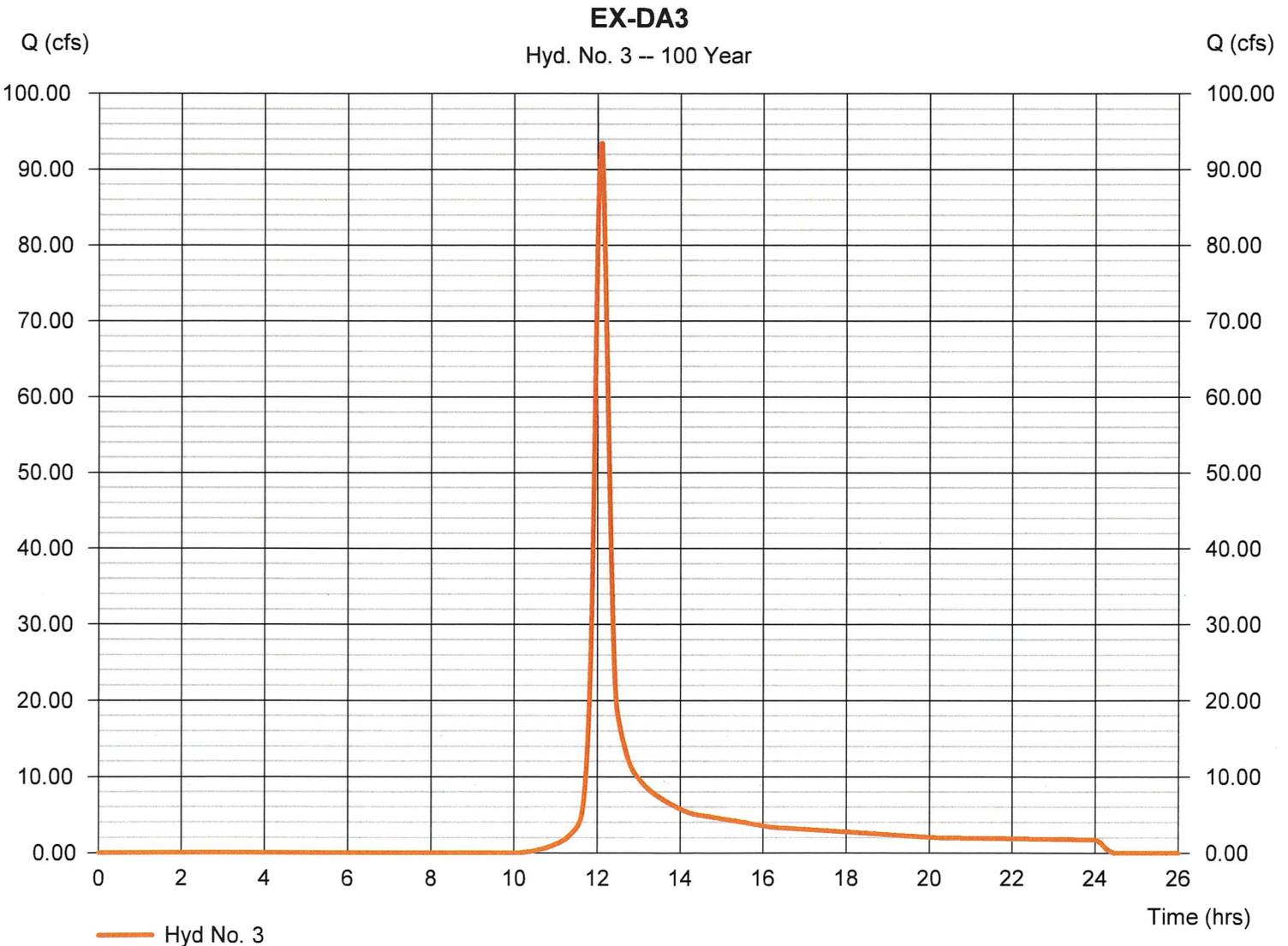
Hyd No. 3

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No. 4

EX-DA4

Hydrograph type	= SCS Runoff	Peak discharge	= 62.50 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 163,723 cuft
Drainage area	= 8.970 ac	Curve number	= 78*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 11.50 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(8.040 x 77) + (0.420 x 74) + (0.510 x 98)] / 8.970

EX-DA4

Hyd. No. 4 -- 100 Year
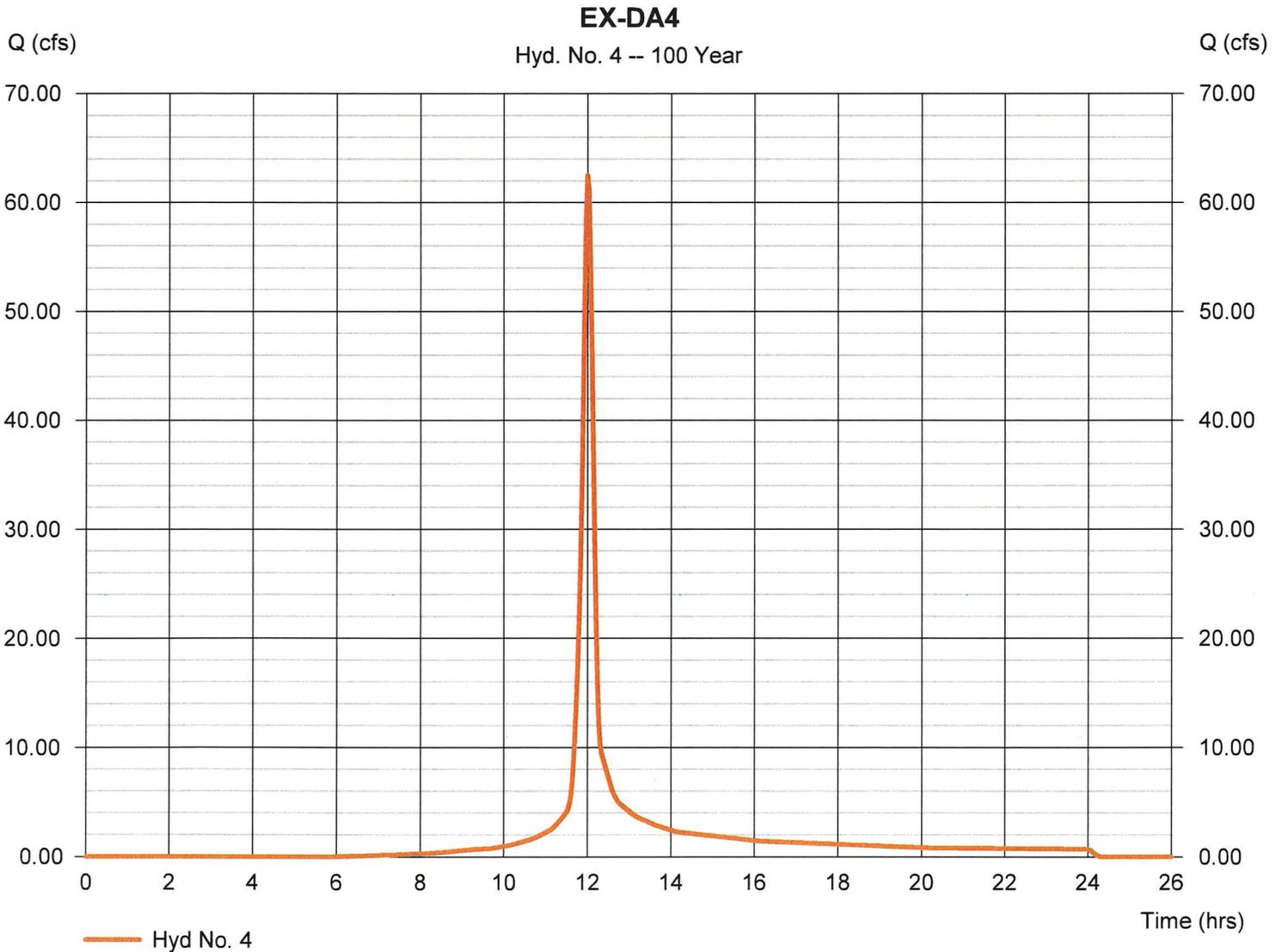
Hyd No. 4

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 5

EX-DA5

Hydrograph type	= SCS Runoff		Peak discharge	= 14.14 cfs
Storm frequency	= 100 yrs		Time to peak	= 12.10 hrs
Time interval	= 2 min		Hyd. volume	= 50,700 cuft
Drainage area	= 8.090 ac		Curve number	= 48*
Basin Slope	= 0.0 %		Hydraulic length	= 0 ft
Tc method	= TR55		Time of conc. (Tc)	= 17.50 min
Total precip.	= 7.44 in		Distribution	= Type II
Storm duration	= 24 hrs		Shape factor	= 484

* Composite (Area/CN) = [(0.910 x 39) + (0.260 x 77) + (0.690 x 61) + (3.640 x 30) + (2.270 x 65) + (0.320 x 98)] / 8.090

EX-DA5
Hyd. No. 5 -- 100 Year
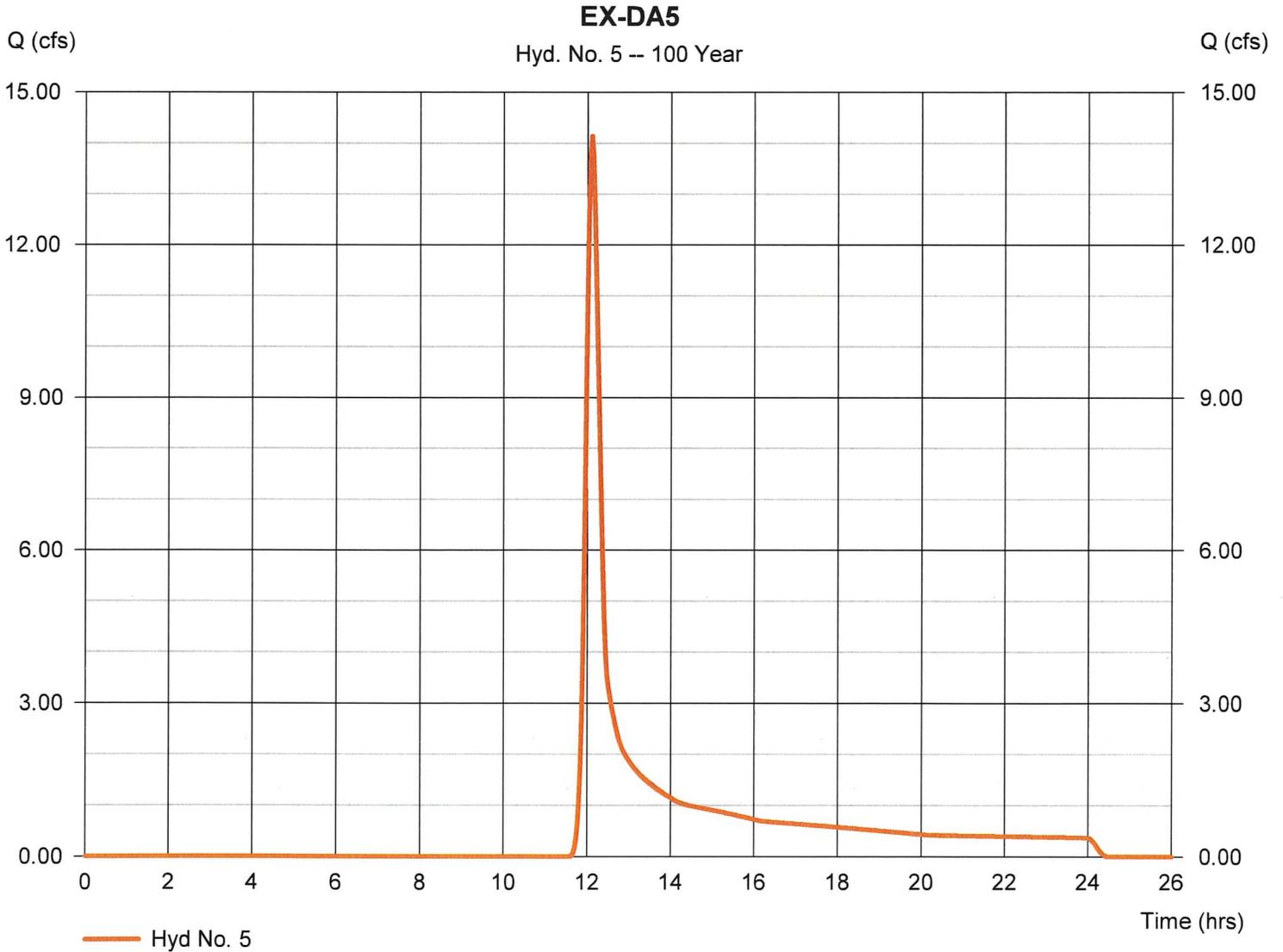
— Hyd No. 5

Hydrograph Report

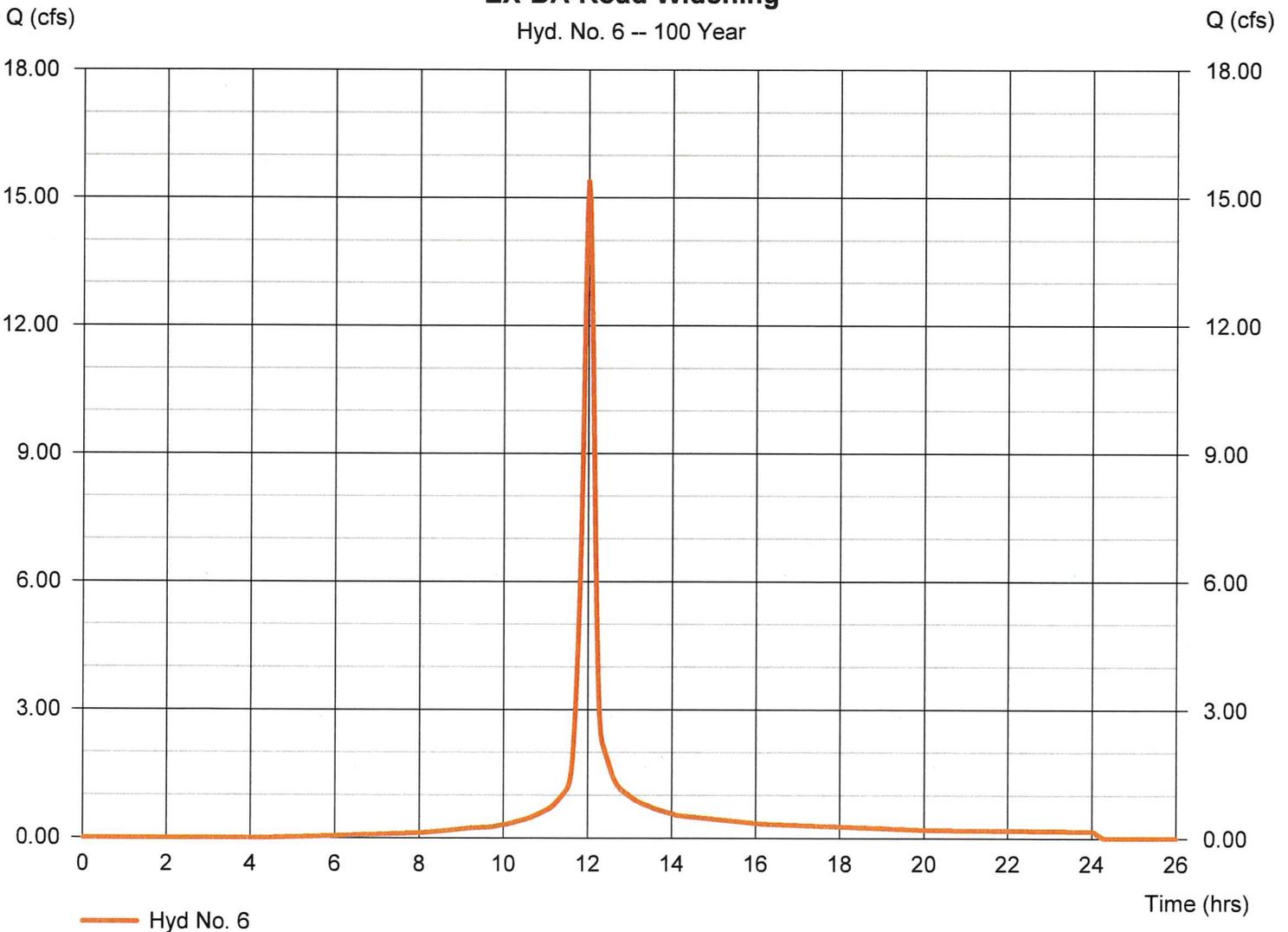Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 6

EX-DA-Road Widening

Hydrograph type	= SCS Runoff	Peak discharge	= 15.39 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 41,204 cuft
Drainage area	= 1.980 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 12.60 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.200 x 77) + (1.000 x 74) + (0.780 x 98)] / 1.980

EX-DA-Road Widening
Hyd. No. 6 -- 100 Year

— Hyd No. 6

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 7

EX-TOTAL

Hydrograph type	= Combine	Peak discharge	= 303.92 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 910,973 cuft
Inflow hyds.	= 1, 2, 3, 4, 5, 6	Contrib. drain. area	= 82.880 ac

EX-TOTAL

Hyd. No. 7 -- 100 Year

Legend:
— Hyd No. 7   — Hyd No. 1   — Hyd No. 2   — Hyd No. 3
— Hyd No. 4   — Hyd No. 5   — Hyd No. 6

Hydrograph Report

Hyd. No. 8

PR-DA-A

Hydrograph type	= SCS Runoff	Peak discharge	= 124.84 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 293,802 cuft
Drainage area	= 12.400 ac	Curve number	= 96*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 6.30 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.200 x 39) + (0.450 x 80) + (11.750 x 98)] / 12.400

PR-DA-A

Hyd. No. 8 -- 100 Year
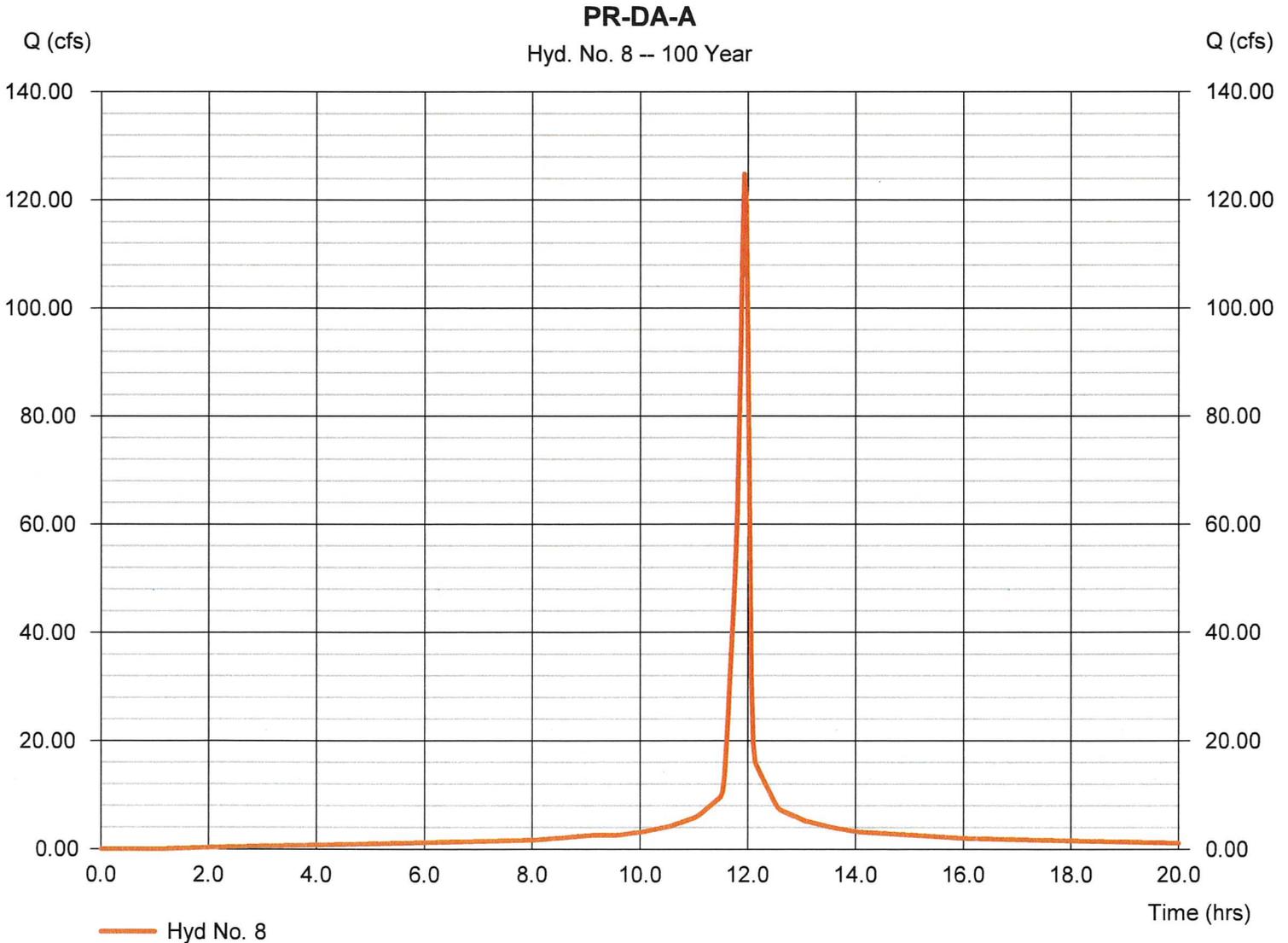
Hyd No. 8

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 9

PR-DA-B

Hydrograph type	= SCS Runoff		Peak discharge	= 157.76 cfs
Storm frequency	= 100 yrs		Time to peak	= 11.93 hrs
Time interval	= 2 min		Hyd. volume	= 371,280 cuft
Drainage area	= 15.670 ac		Curve number	= 96*
Basin Slope	= 0.0 %		Hydraulic length	= 0 ft
Tc method	= User		Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.44 in		Distribution	= Type II
Storm duration	= 24 hrs		Shape factor	= 484

* Composite (Area/CN) = [(0.100 x 39) + (1.610 x 80) + (13.960 x 98)] / 15.670

PR-DA-B

Hyd. No. 9 -- 100 Year
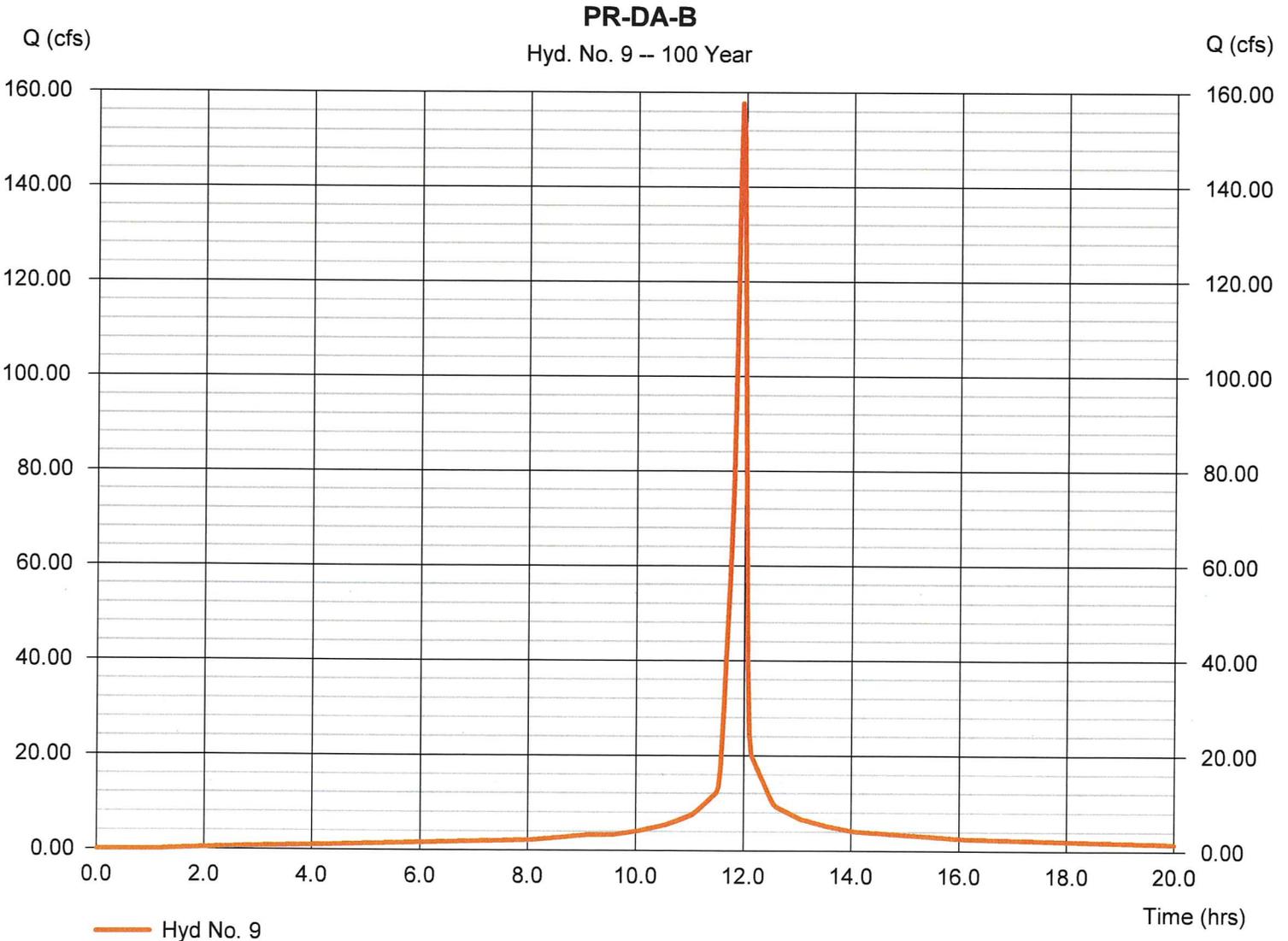
— Hyd No. 9

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 10

PR-DA-C

Hydrograph type	= SCS Runoff	Peak discharge	= 284.74 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 704,998 cuft
Drainage area	= 31.050 ac	Curve number	= 90*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 9.50 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(2.830 x 39) + (5.270 x 80) + (22.950 x 98)] / 31.050

PR-DA-C

Hyd. No. 10 -- 100 Year
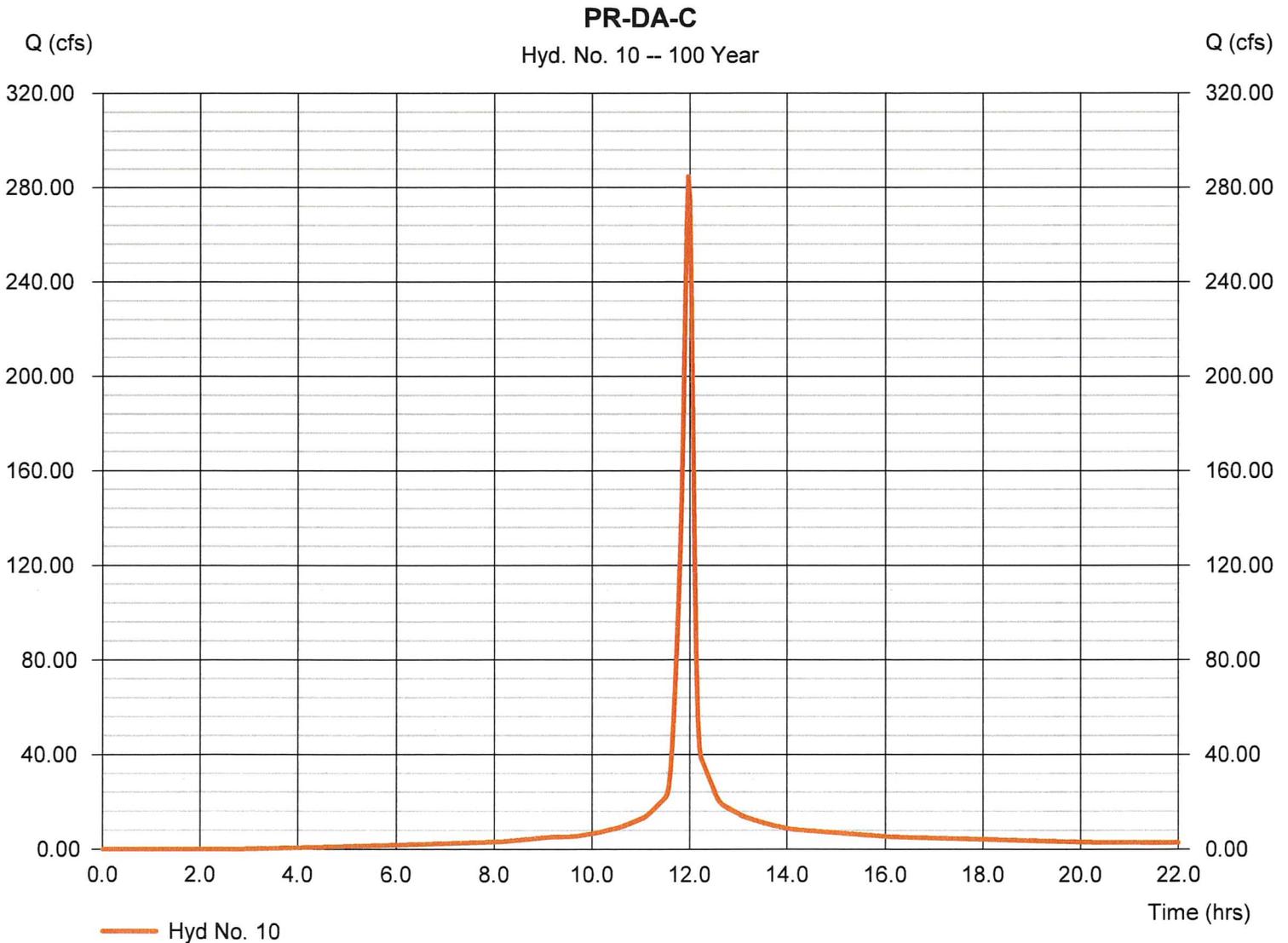
─── Hyd No. 10

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No. 11

BMP A Routing

Hydrograph type	= Reservoir	Peak discharge	= 1.125 cfs
Storm frequency	= 100 yrs	Time to peak	= 20.17 hrs
Time interval	= 2 min	Hyd. volume	= 272,389 cuft
Inflow hyd. No.	= 8 - PR-DA-A	Max. Elevation	= 292.49 ft
Reservoir name	= BMP A	Max. Storage	= 236,618 cuft

Storage Indication method used.
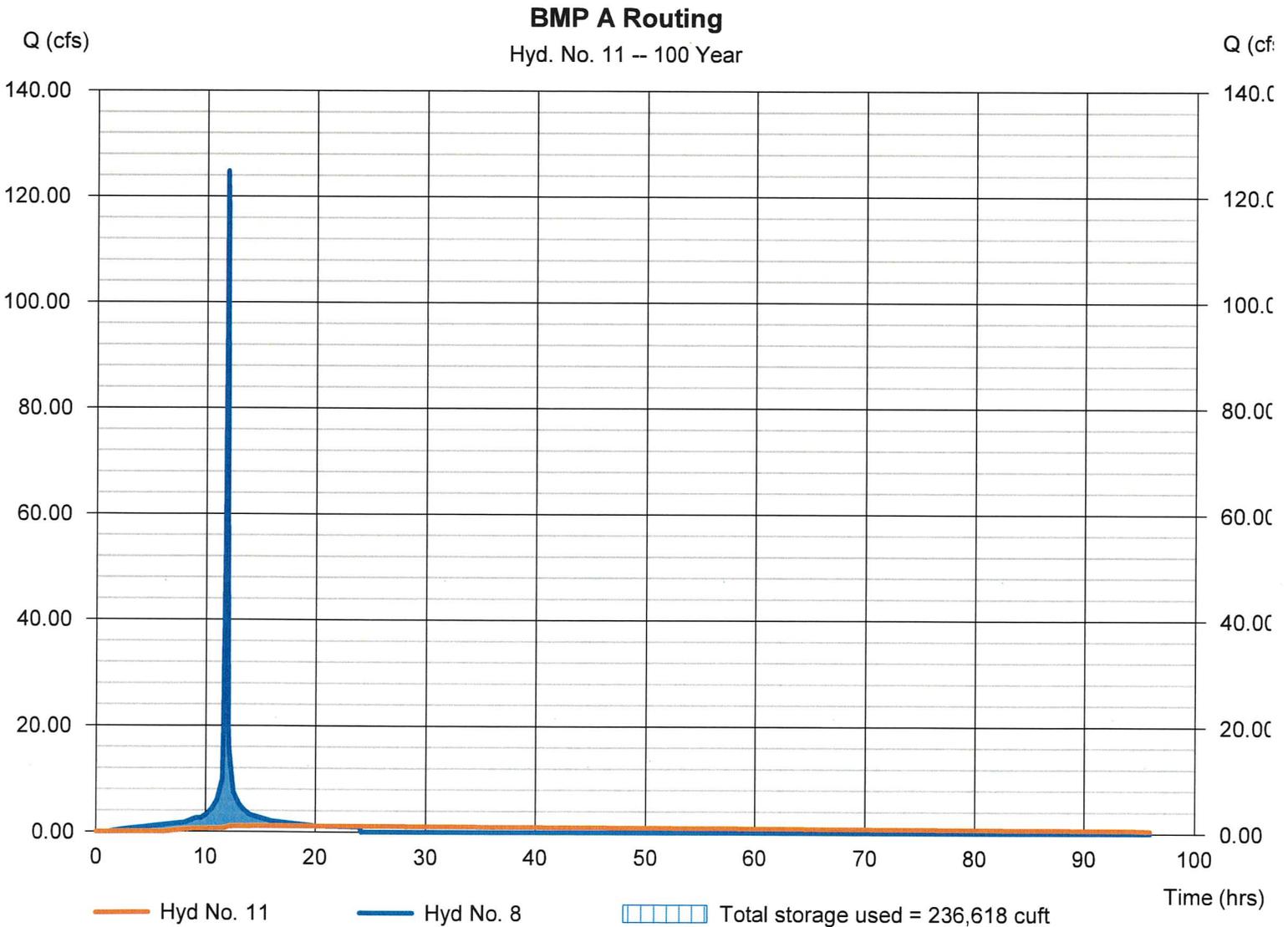
BMP A Routing

Hyd. No. 11 -- 100 Year

Q (cfs)

| Hyd No. 11 | Hyd No. 8 | Total storage used = 236,618 cuft |

Time (hrs)

Hydrograph Report

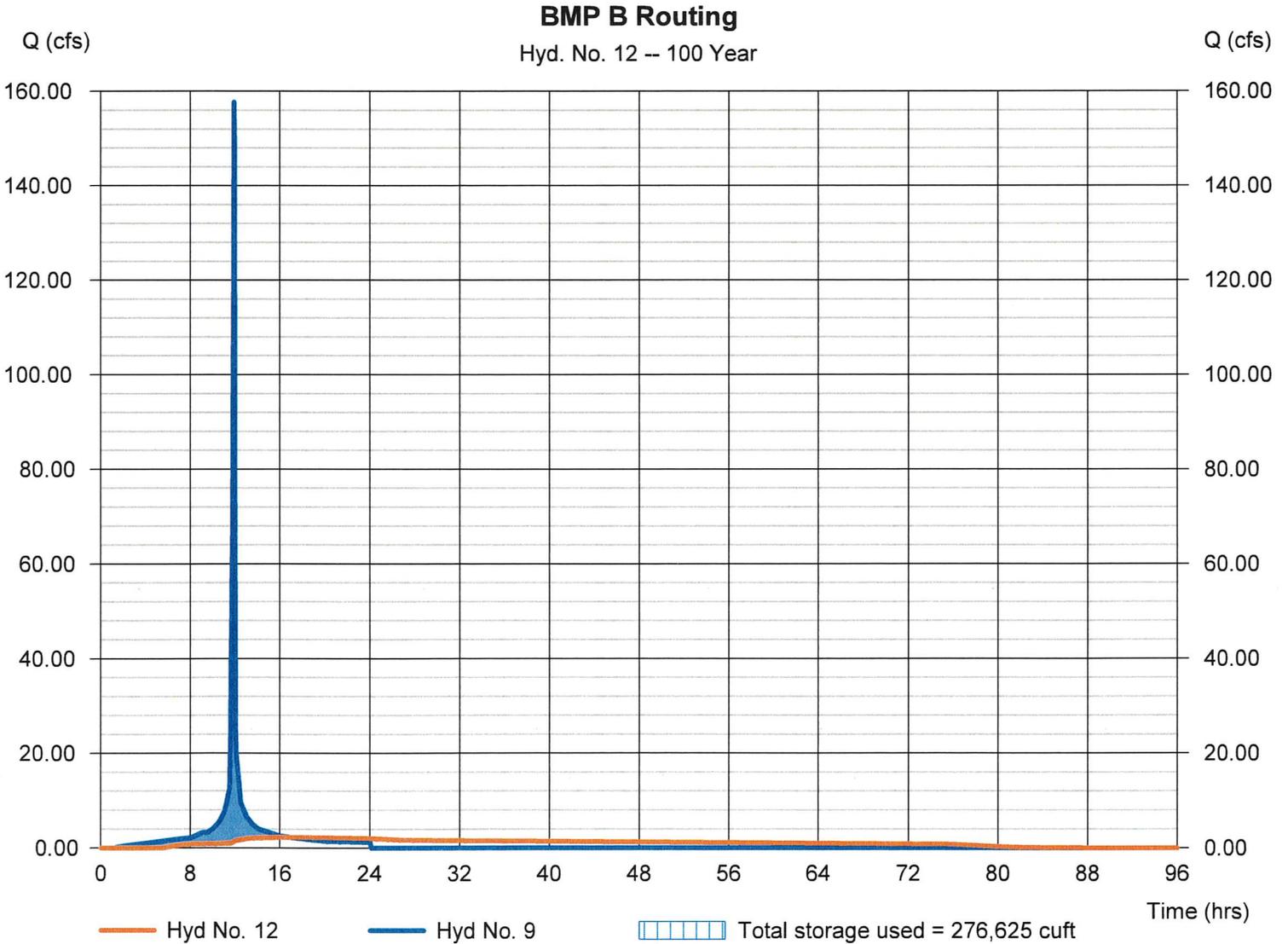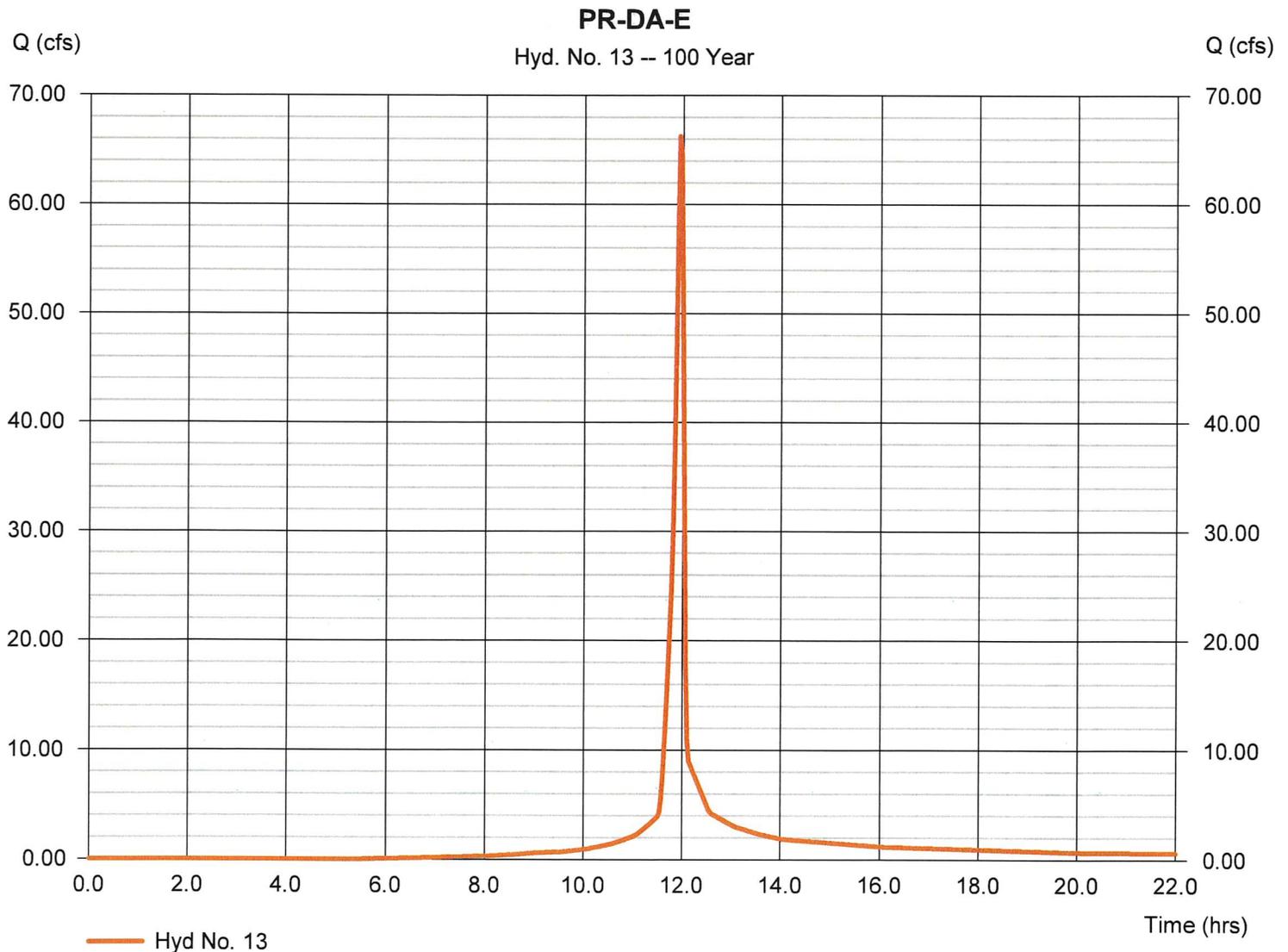Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 12

BMP B Routing

Hydrograph type	= Reservoir	Peak discharge	= 2.243 cfs
Storm frequency	= 100 yrs	Time to peak	= 17.10 hrs
Time interval	= 2 min	Hyd. volume	= 359,735 cuft
Inflow hyd. No.	= 9 - PR-DA-B	Max. Elevation	= 288.98 ft
Reservoir name	= BMP B	Max. Storage	= 276,625 cuft

Storage Indication method used.

BMP B Routing
Hyd. No. 12 -- 100 Year

Hyd No. 12   Hyd No. 9   Total storage used = 276,625 cuft

Hydrograph Report

Hyd. No. 13

PR-DA-E

Hydrograph type	= SCS Runoff	Peak discharge	= 66.27 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 137,862 cuft
Drainage area	= 7.940 ac	Curve number	= 80*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.220 x 39) + (0.880 x 61) + (2.190 x 80) + (3.650 x 98)] / 7.940

PR-DA-E

Hyd. No. 13 -- 100 Year

Hydrograph Report

Wednesday, 01 / 29 / 2025

Hyd. No. 14

BMP E Routing

Hydrograph type	= Reservoir	Peak discharge	= 31.89 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 133,847 cuft
Inflow hyd. No.	= 13 - PR-DA-E	Max. Elevation	= 260.69 ft
Reservoir name	= BMP E	Max. Storage	= 59,058 cuft

Storage Indication method used.
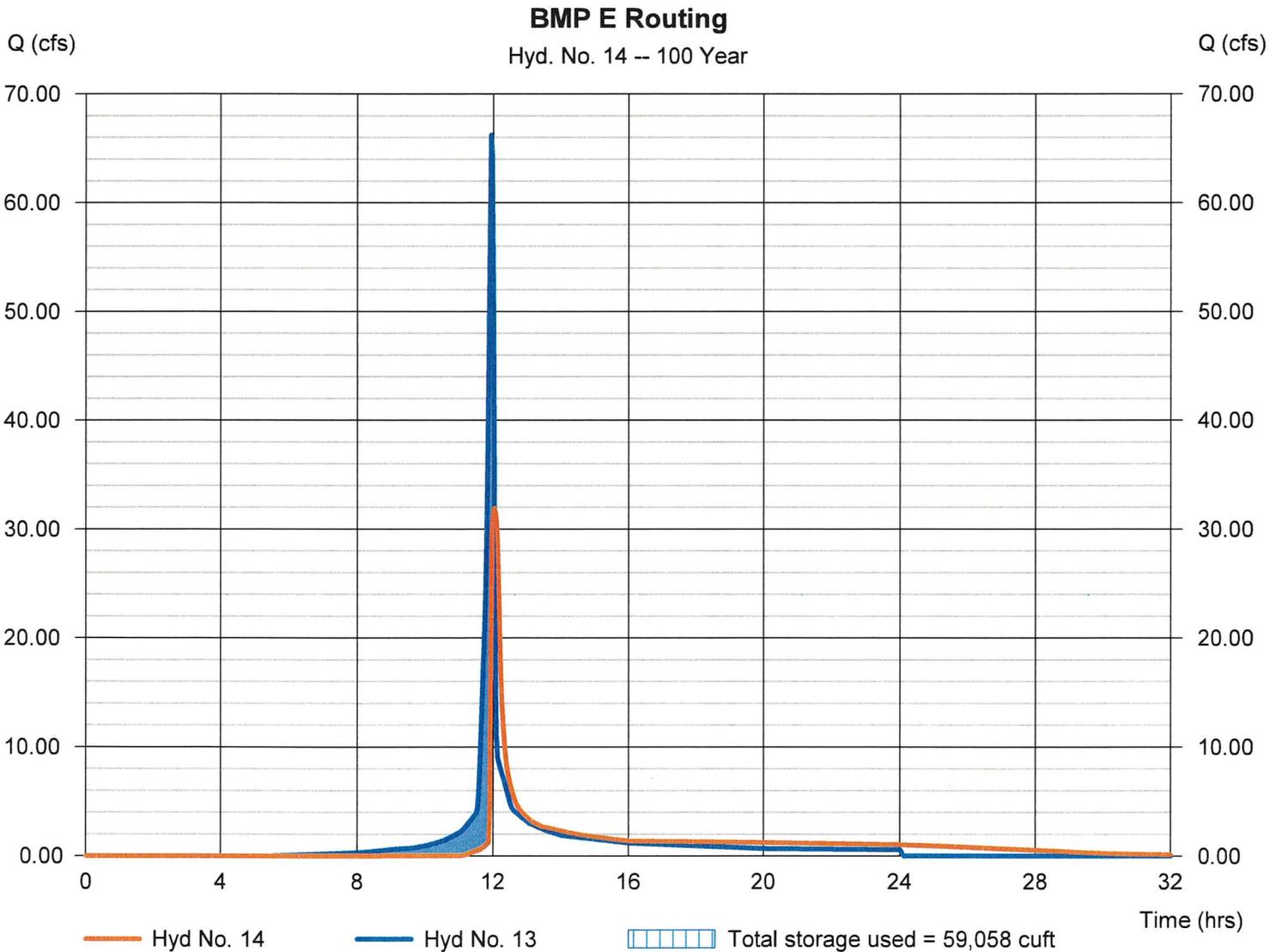
BMP E Routing
Hyd. No. 14 -- 100 Year

Legend: —— Hyd No. 14 —— Hyd No. 13 [ ] Total storage used = 59,058 cuft

Hydrograph Report

Hyd. No. 15

BMP C INFLOW

Hydrograph type	= Combine	Peak discharge	= 287.19 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 1,337,122 cuft
Inflow hyds.	= 10, 11, 12	Contrib. drain. area	= 31.050 ac
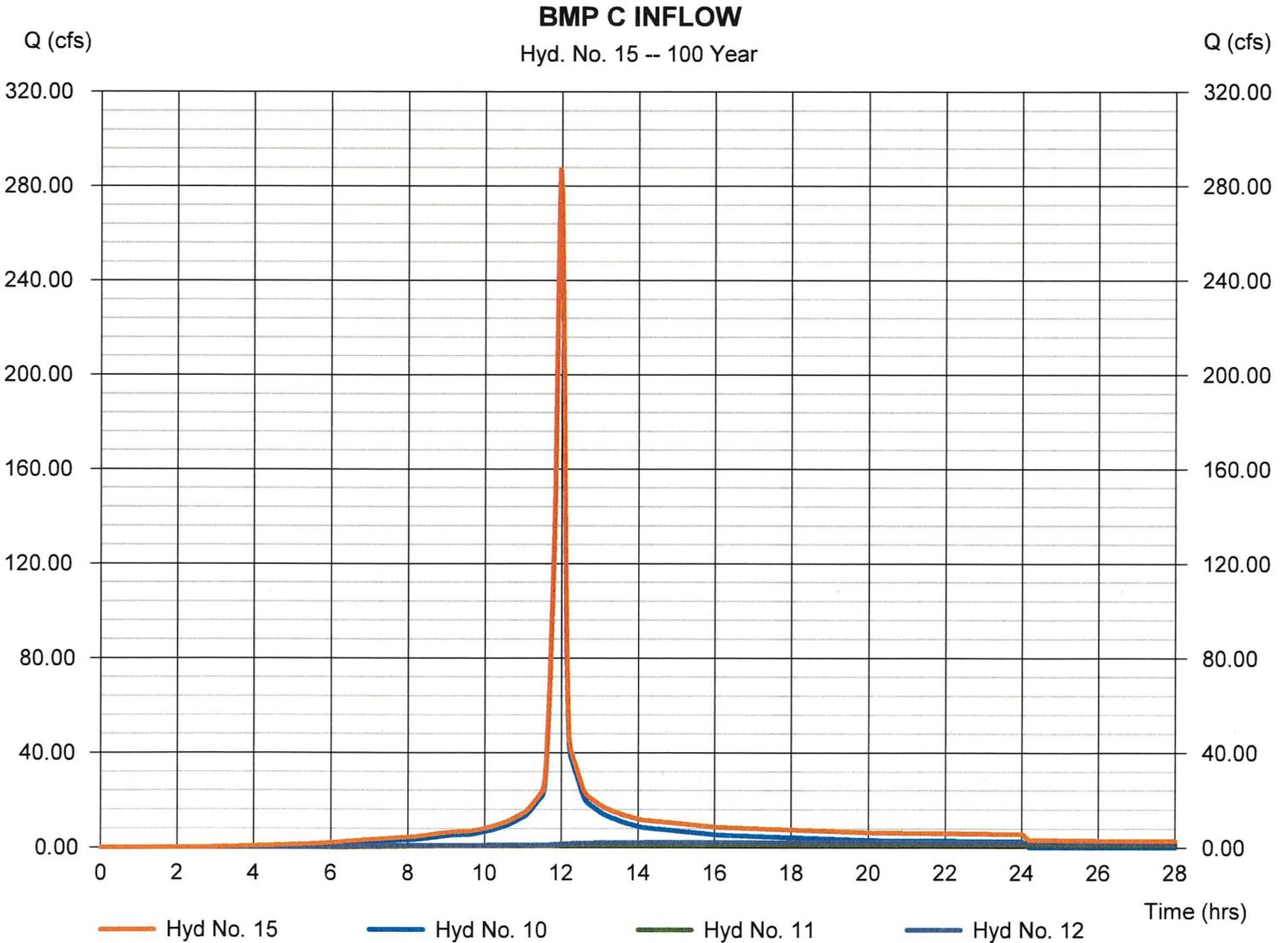
BMP C INFLOW
Hyd. No. 15 -- 100 Year

Legend: Hyd No. 15, Hyd No. 10, Hyd No. 11, Hyd No. 12

Hydrograph Report

Hyd. No. 16

MRC BMP C Routing(DP1)

Hydrograph type	= Reservoir		Peak discharge	= 12.11 cfs
Storm frequency	= 100 yrs		Time to peak	= 14.00 hrs
Time interval	= 2 min		Hyd. volume	= 1,244,777 cuft
Inflow hyd. No.	= 15 - BMP C INFLOW		Max. Elevation	= 219.67 ft
Reservoir name	= BMP C		Max. Storage	= 499,313 cuft

Storage Indication method used.
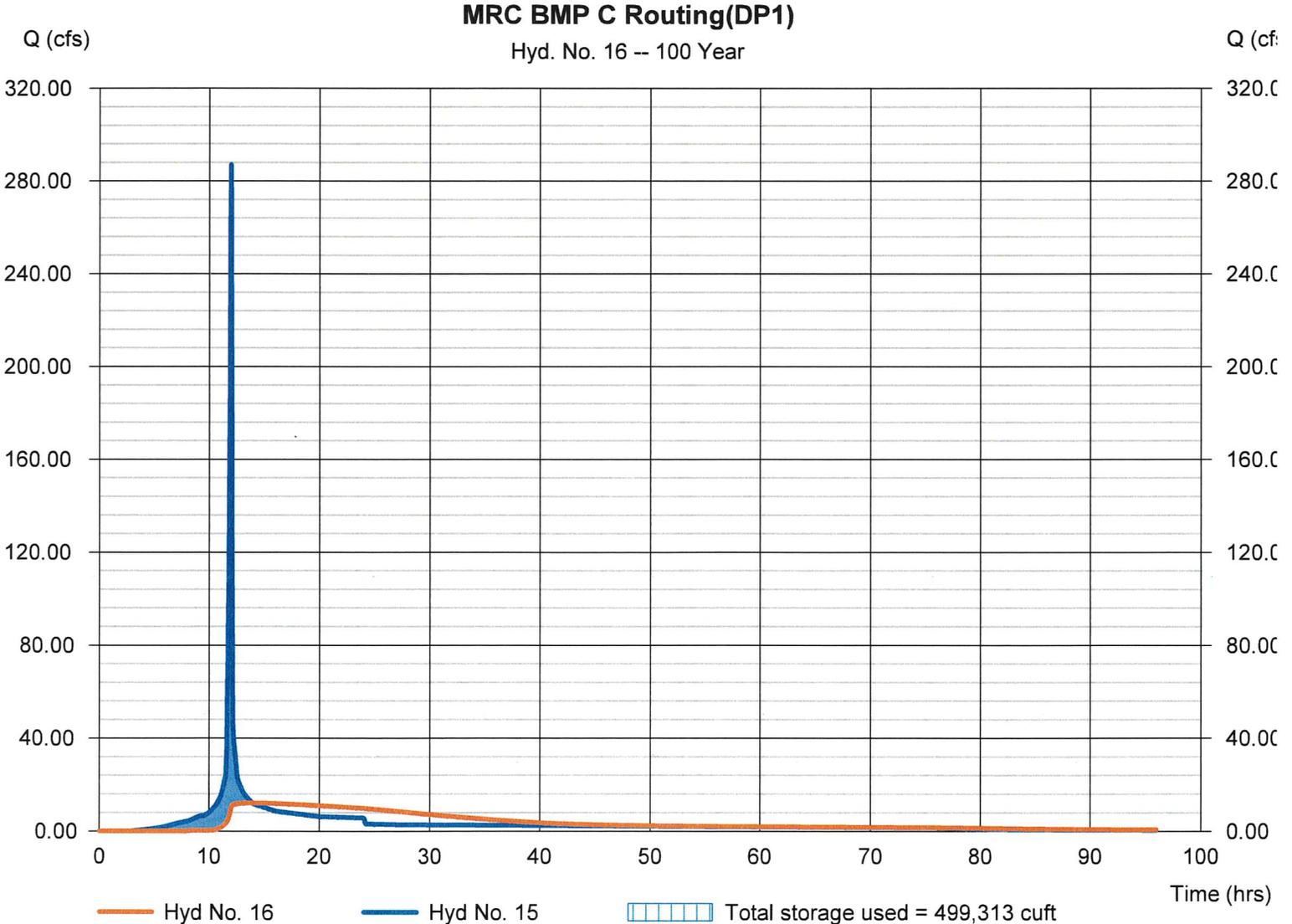
MRC BMP C Routing(DP1)
Hyd. No. 16 -- 100 Year

Hyd No. 16   Hyd No. 15   Total storage used = 499,313 cuft

Hydrograph Report

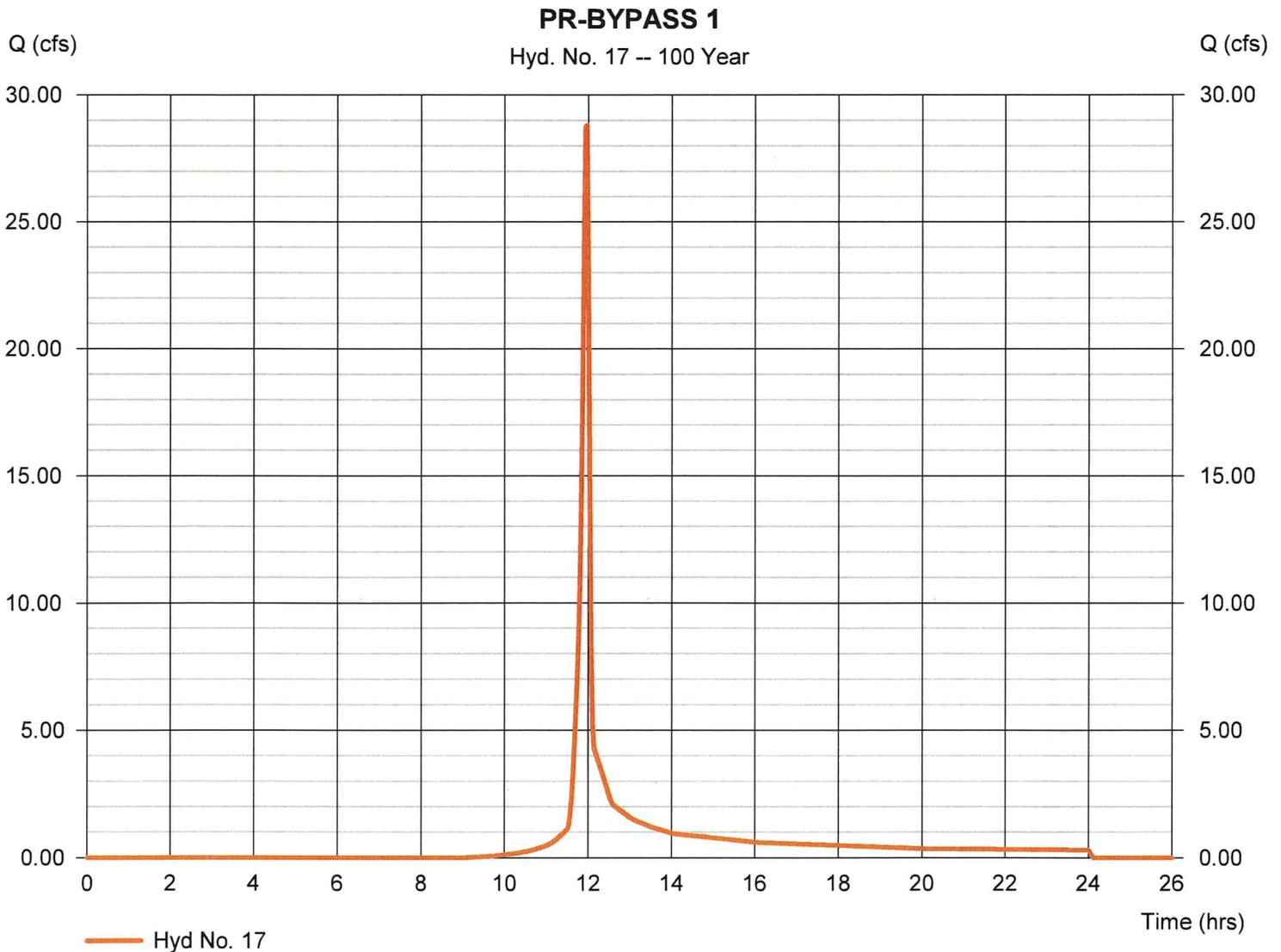Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 17

PR-BYPASS 1

Hydrograph type	= SCS Runoff	Peak discharge	= 28.81 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 58,058 cuft
Drainage area	= 4.950 ac	Curve number	= 65*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 6.30 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.830 x 39) + (1.480 x 61) + (1.640 x 98)] / 4.950

PR-BYPASS 1

Hyd. No. 17 -- 100 Year

Hyd No. 17

Hydrograph Report

Hyd. No. 18

PR RG

Hydrograph type	= SCS Runoff	Peak discharge	= 7.790 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 17,845 cuft
Drainage area	= 1.200 ac	Curve number	= 71*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 7.40 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.410 x 80) + (0.690 x 61) + (0.100 x 98)] / 1.200

PR RG

Hyd. No. 18 -- 100 Year
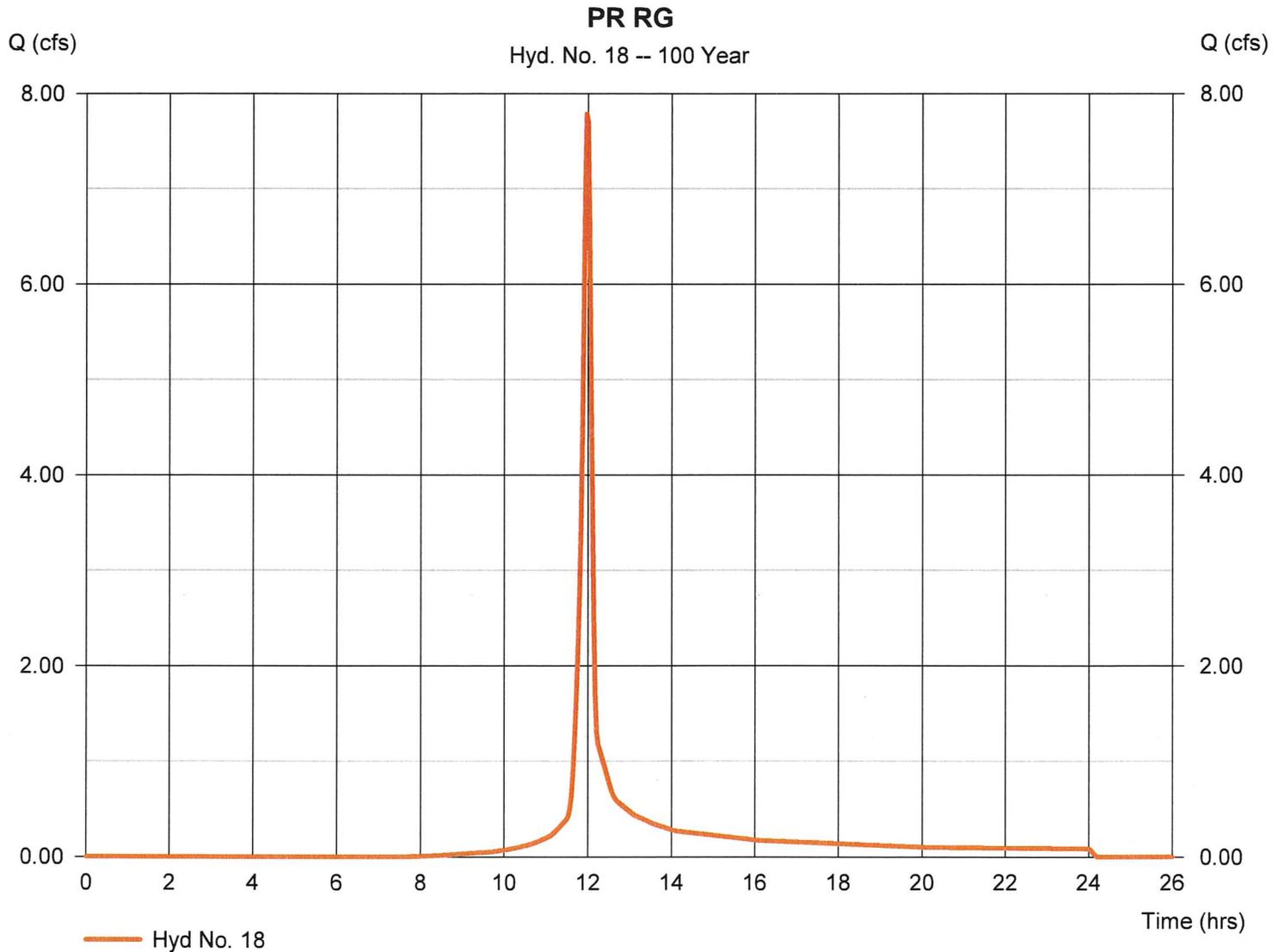
Hydrograph Report

Hyd. No. 19

PR-BYPASS 2

Hydrograph type	= SCS Runoff	Peak discharge	= 11.53 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 29,459 cuft
Drainage area	= 5.600 ac	Curve number	= 45*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 9.50 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

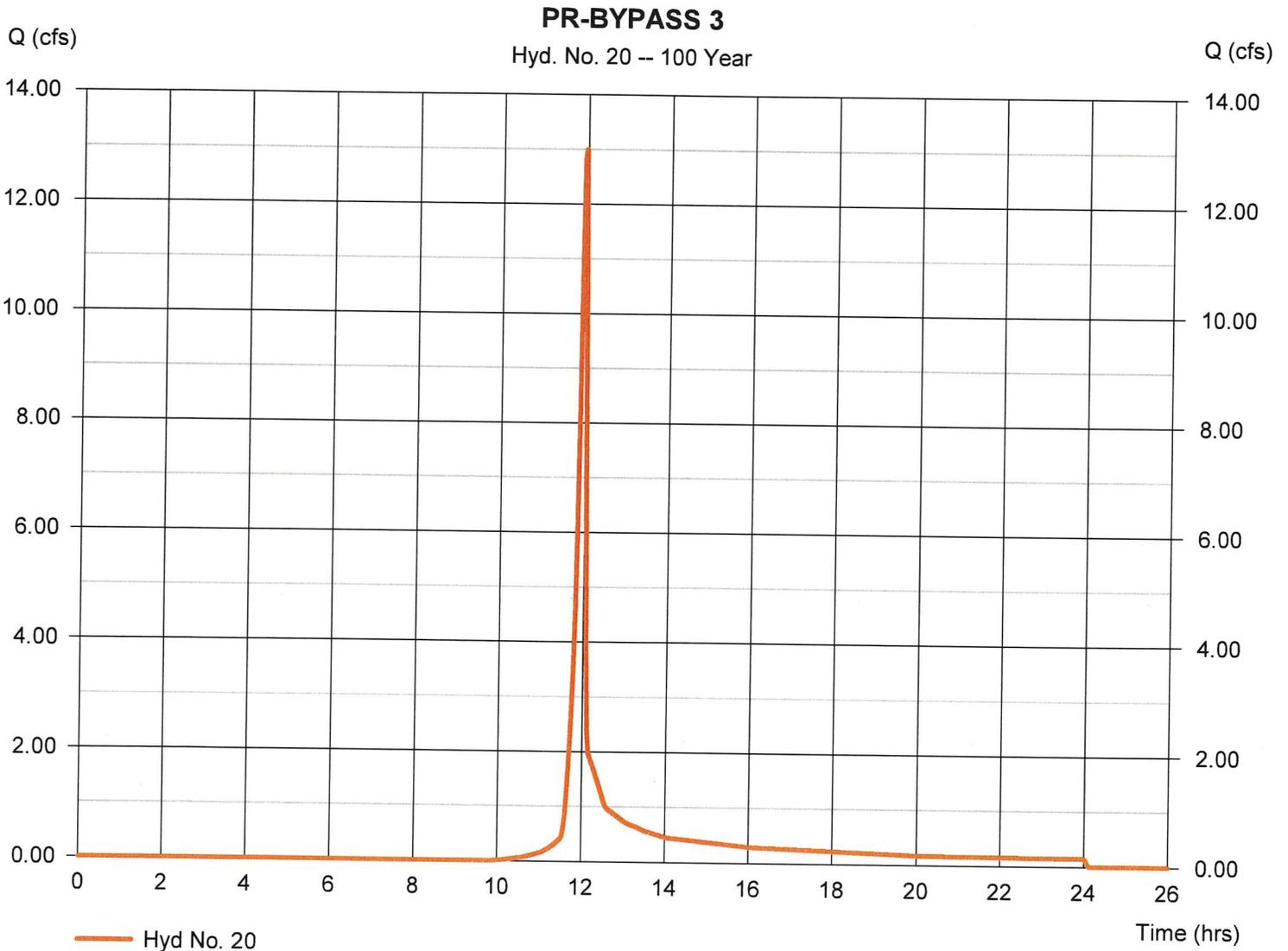* Composite (Area/CN) = [(4.520 x 39) + (0.490 x 61) + (0.530 x 80) + (0.060 x 98)] / 5.600

PR-BYPASS 2
Hyd. No. 19 -- 100 Year
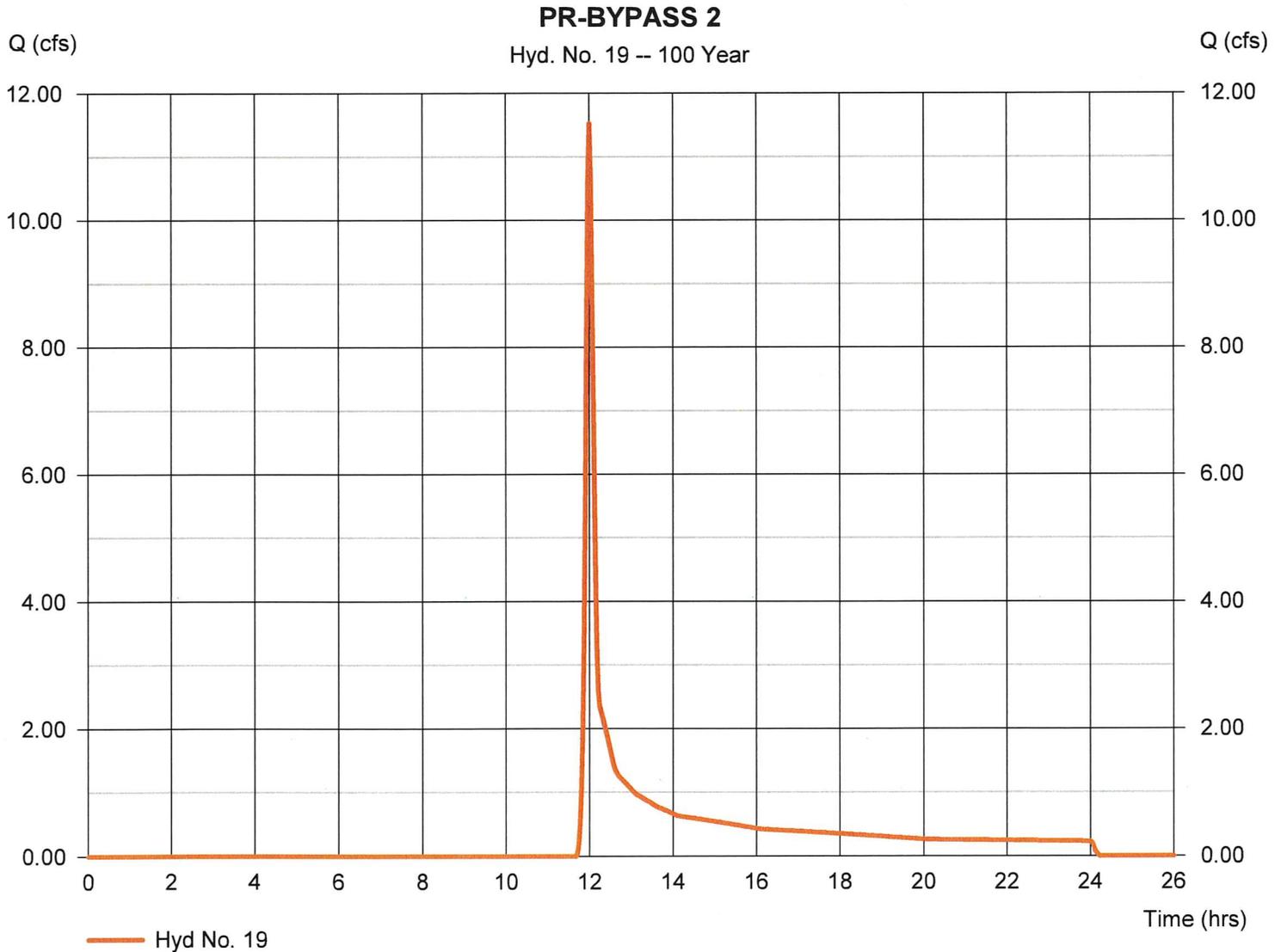
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

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Hyd. No. 20

PR-BYPASS 3

Hydrograph type	= SCS Runoff		Peak discharge	= 13.00 cfs
Storm frequency	= 100 yrs		Time to peak	= 11.97 hrs
Time interval	= 2 min		Hyd. volume	= 26,034 cuft
Drainage area	= 2.530 ac		Curve number	= 61*
Basin Slope	= 0.0 %		Hydraulic length	= 0 ft
Tc method	= TR55		Time of conc. (Tc)	= 4.90 min
Total precip.	= 7.44 in		Distribution	= Type II
Storm duration	= 24 hrs		Shape factor	= 484

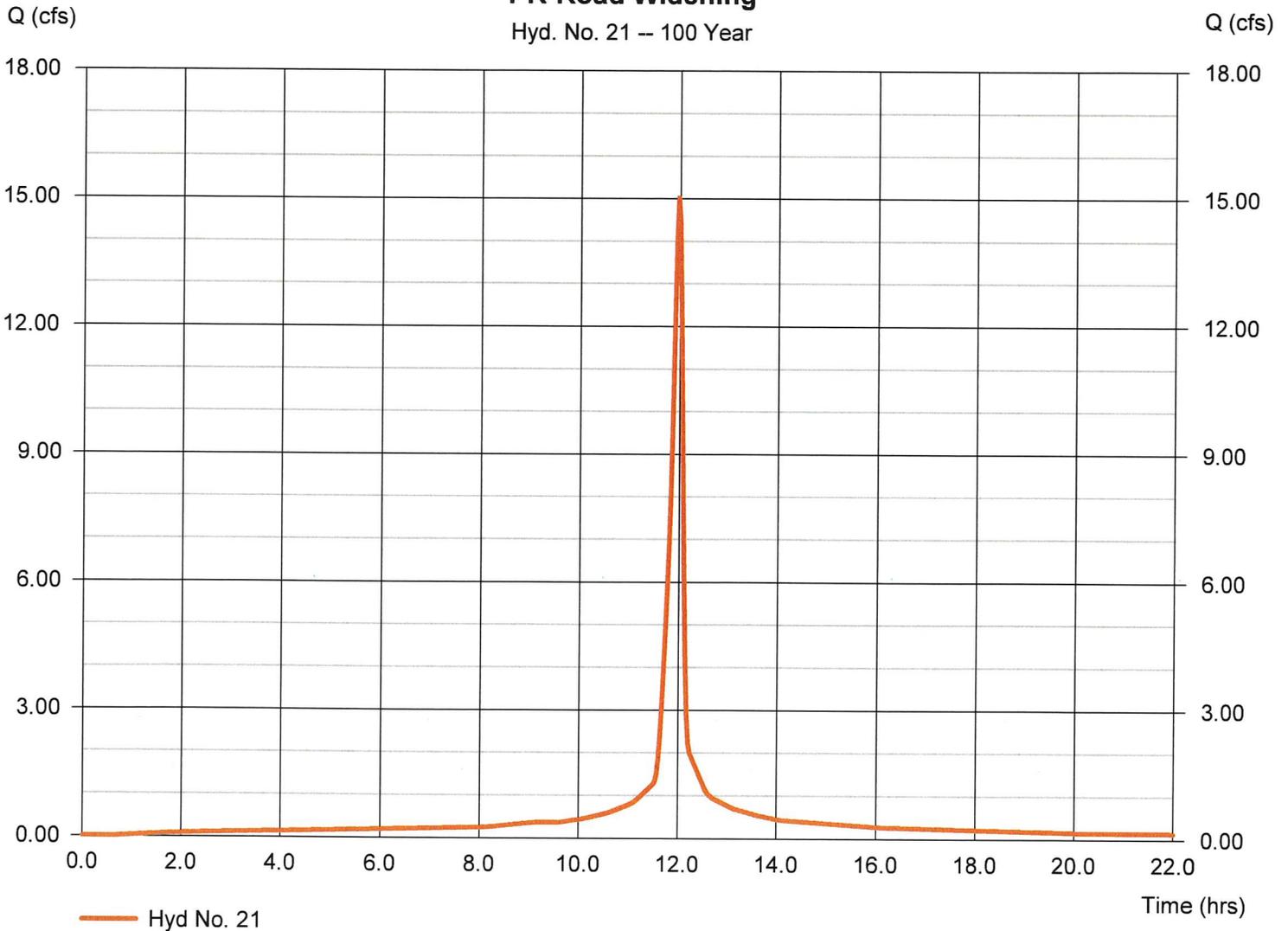* Composite (Area/CN) = [(2.530 x 61)] / 2.530

PR-BYPASS 3

Hyd. No. 20 -- 100 Year

Hyd No. 20

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 21

PR-Road Widening

Hydrograph type	= SCS Runoff	Peak discharge	= 15.02 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 40,514 cuft
Drainage area	= 1.550 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 7.70 min
Total precip.	= 7.44 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

PR-Road Widening

Hyd. No. 21 -- 100 Year

Hyd No. 21

Hydrograph Report

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Hyd. No. 22

BMP E Outflow + PR Road Widening

Hydrograph type	= Combine		Peak discharge	= 53.64 cfs
Storm frequency	= 100 yrs		Time to peak	= 12.00 hrs
Time interval	= 2 min		Hyd. volume	= 192,206 cuft
Inflow hyds.	= 14, 18, 21		Contrib. drain. area	= 2.750 ac

BMP E Outflow + PR Road Widening
Hyd. No. 22 -- 100 Year

Legend: Hyd No. 22 — Hyd No. 14 — Hyd No. 18 — Hyd No. 21

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025
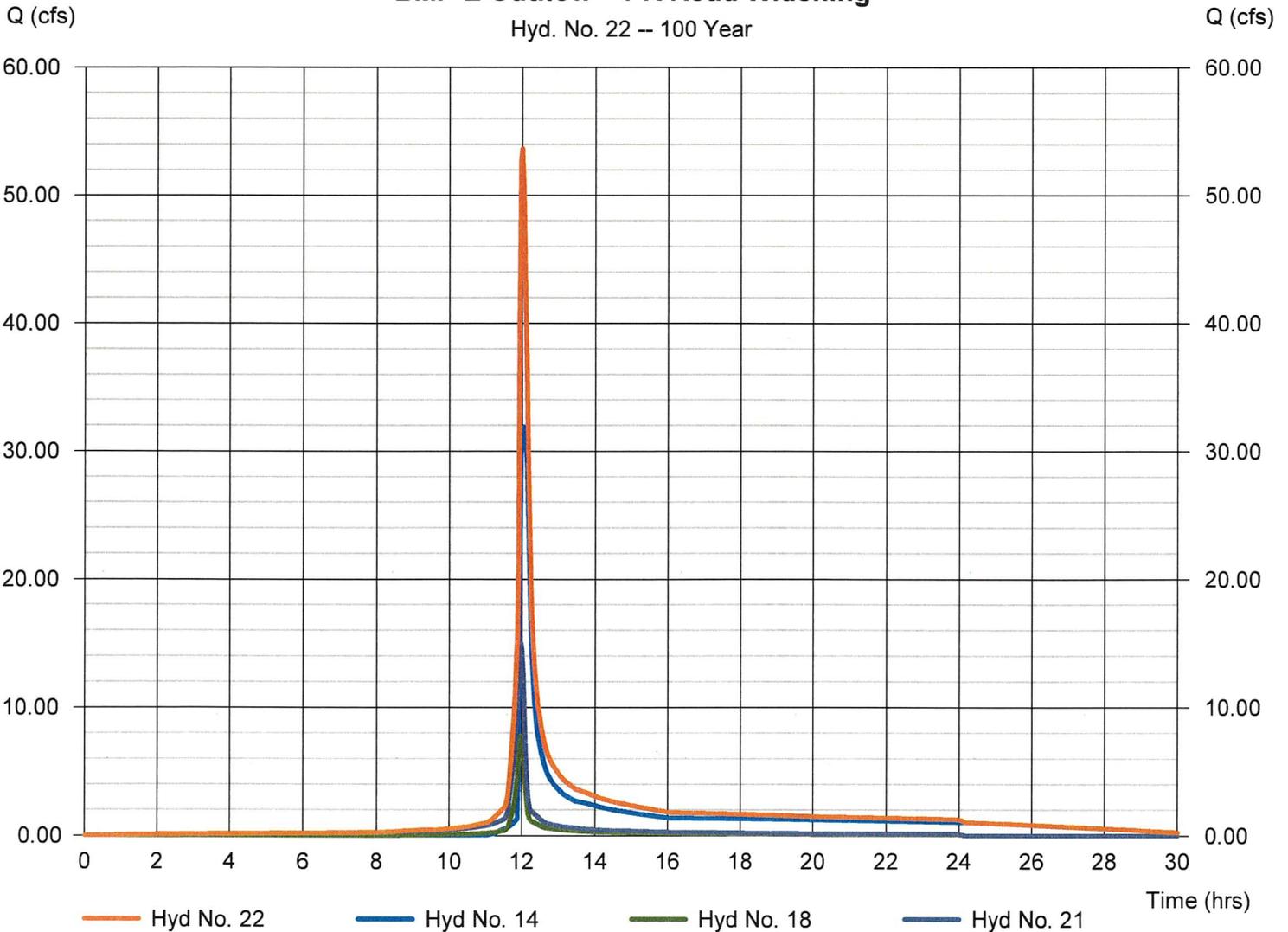
Hyd. No. 23

RG Routing (DP2)

Hydrograph type	= Reservoir	Peak discharge	= 51.29 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 179,192 cuft
Inflow hyd. No.	= 22 - BMP E Outflow + PR Road Widening	Max. Elevation	= 233.70 ft
Reservoir name	= Hacket Rain Garden	Max. Storage	= 21,180 cuft

Storage Indication method used.
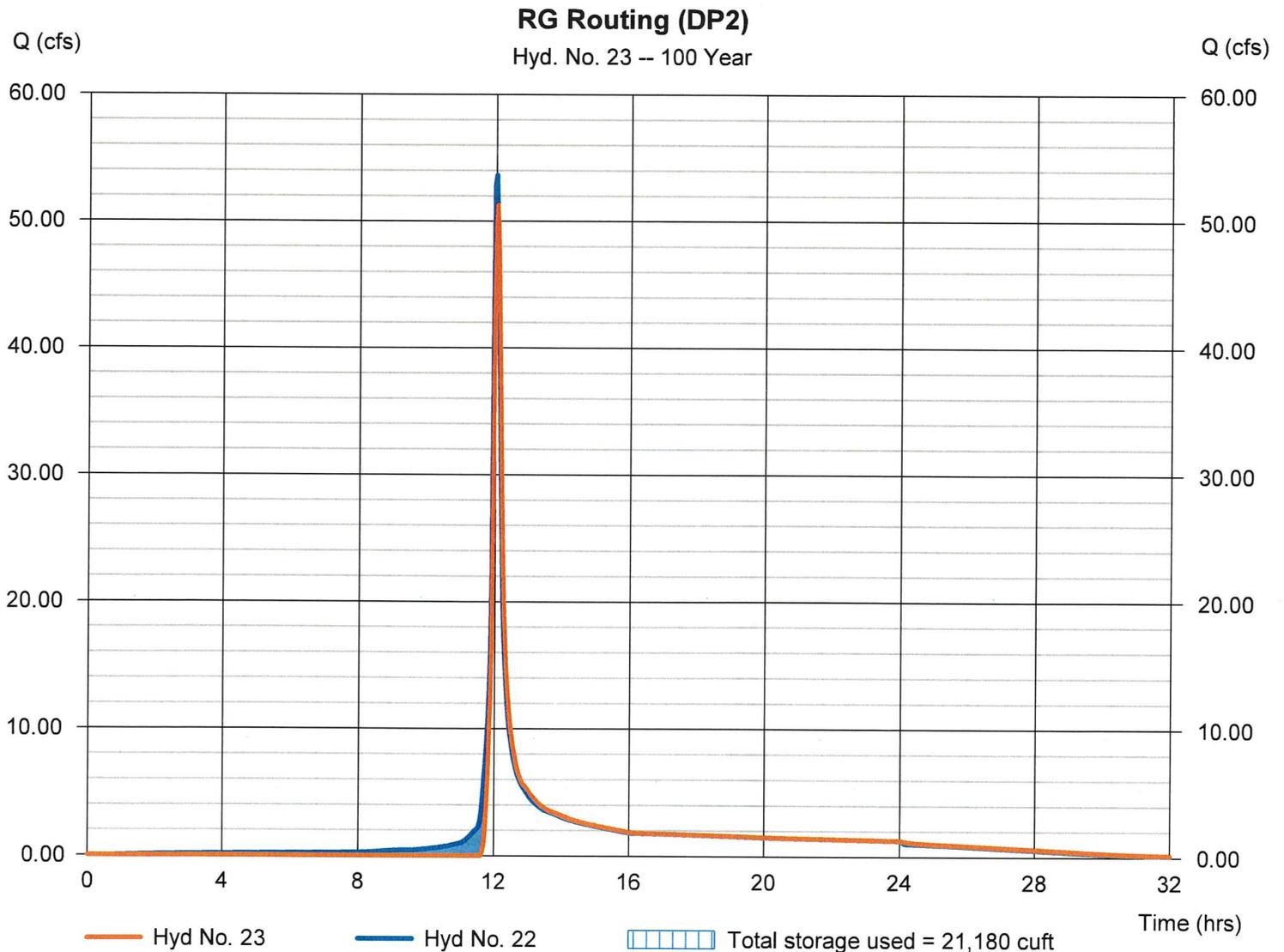
RG Routing (DP2)
Hyd. No. 23 -- 100 Year

Q (cfs)

— Hyd No. 23   — Hyd No. 22   Total storage used = 21,180 cuft

Time (hrs)

Hydrograph Report

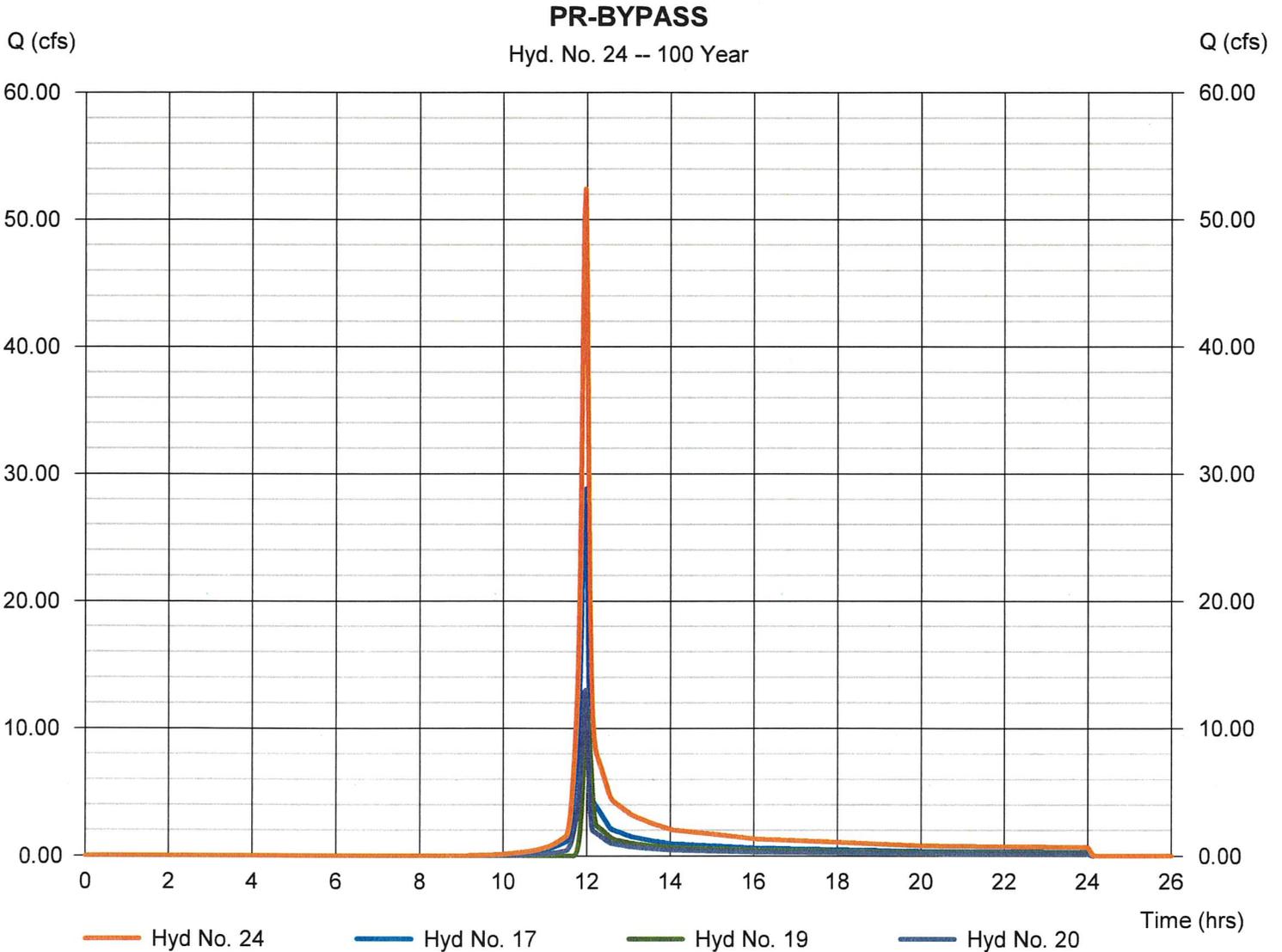Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 24

PR-BYPASS

Hydrograph type	= Combine	Peak discharge	= 52.43 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 113,551 cuft
Inflow hyds.	= 17, 19, 20	Contrib. drain. area	= 13.080 ac

PR-BYPASS
Hyd. No. 24 -- 100 Year

Legend: Hyd No. 24 — Hyd No. 17 — Hyd No. 19 — Hyd No. 20

Hydrograph Report

Hyd. No. 25

PROPOSED ENTIRE SITE (POI)

Hydrograph type	= Combine	Peak discharge	= 136.30 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 1,671,372 cuft
Inflow hyds.	= 14, 16, 23, 24	Contrib. drain. area	= 0.000 ac

PROPOSED ENTIRE SITE (POI)
Hyd. No. 25 -- 100 Year

Legend:
— Hyd No. 25 — Hyd No. 14 — Hyd No. 16 — Hyd No. 23
— Hyd No. 24

Hydrograph Report

Hyd. No. 26

EX-to- Bushkill

Hydrograph type	= Combine	Peak discharge	= 126.98 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 355,538 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 35.550 ac

EX-to- Bushkill
Hyd. No. 26 -- 100 Year

Legend: Hyd No. 26 — Hyd No. 1 — Hyd No. 2

Hydrograph Report

Hyd. No. 27

PR-to-Bushkill

Hydrograph type	= Combine	Peak discharge	= 41.81 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 84,092 cuft
Inflow hyds.	= 17, 20	Contrib. drain. area	= 7.480 ac
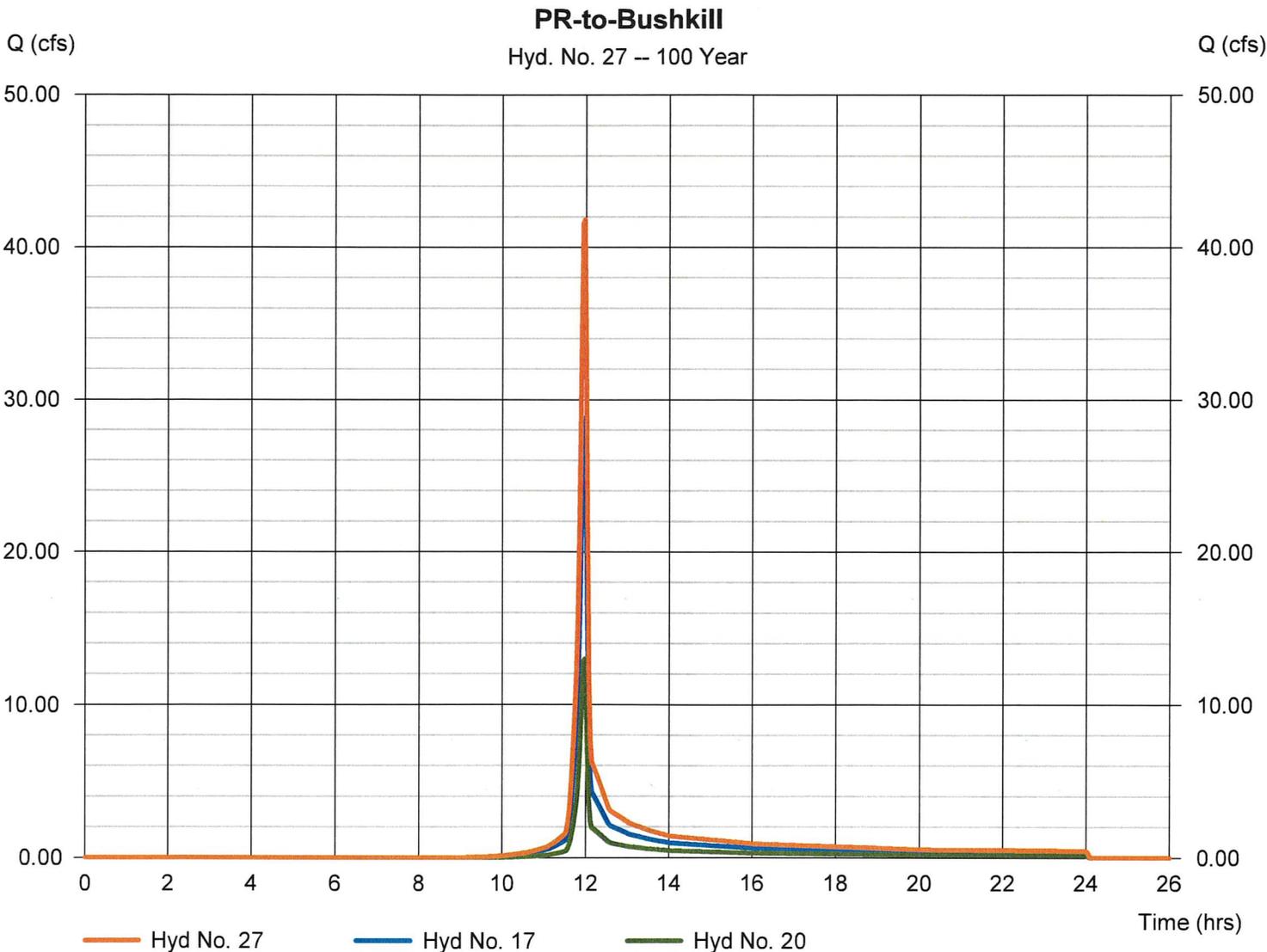
PR-to-Bushkill

Hyd. No. 27 -- 100 Year

Legend: — Hyd No. 27   — Hyd No. 17   — Hyd No. 20

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No. 28

EX-to-UNT

Hydrograph type	= Combine	Peak discharge	= 176.94 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 555,436 cuft
Inflow hyds.	= 3, 4, 5, 6	Contrib. drain. area	= 47.330 ac

EX-to-UNT

Hyd. No. 28 -- 100 Year

Legend:
— Hyd No. 28
— Hyd No. 3
— Hyd No. 4
— Hyd No. 5
— Hyd No. 6

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025   Wednesday, 01 / 29 / 2025

Hyd. No. 29

PR-to-UNT (DPs 001& 002)

Hydrograph type	= Combine	Peak discharge	= 78.84 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 1,471,274 cuft
Inflow hyds.	= 16, 18, 19, 23	Contrib. drain. area	= 6.800 ac

PR-to-UNT (DPs 001& 002)
Hyd. No. 29 -- 100 Year

Legend:
— Hyd No. 29   — Hyd No. 16   — Hyd No. 18   — Hyd No. 19
— Hyd No. 23