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Consultants



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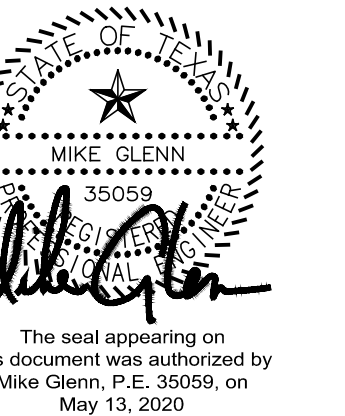
Notes



8 - RH #40	RAH	CMG	2020.05.13
7 - RH #79 - PC 20 - REV	RAH	CMG	2020.03.13
6 - RH #116 AND #117	RAH	CMG	2020.01.13
5 - RH #20 AND #21	RAH	CMG	2019.07.23
4 - RH #16	RAH	CMG	2019.07.12
3 - CITY COMMENTS	RAH	CMG	2019.04.30
2 - ASI #1 - CITY COMMENTS	RAH	CMG	2019.04.02
Revision	By	Appd	YYYY.MM.DD

100%CD - For Bidding and Construction	RAH	CMG	2019.03.01
Issued	By	Appd	YYYY.MM.DD

Permit-Seal



Client/Project

Rockwall ISD

Elementary School #15

2911 Greenway Drive
Rockwall, TX 75087

Title **PROPOSED DRAINAGE CALCULATIONS**

Project No. 214000654 Scale AS SHOWN

Revision Drawing No.



C
04.12

Pond Report

Hydroflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2 Monday, 04 / 29 / 2019

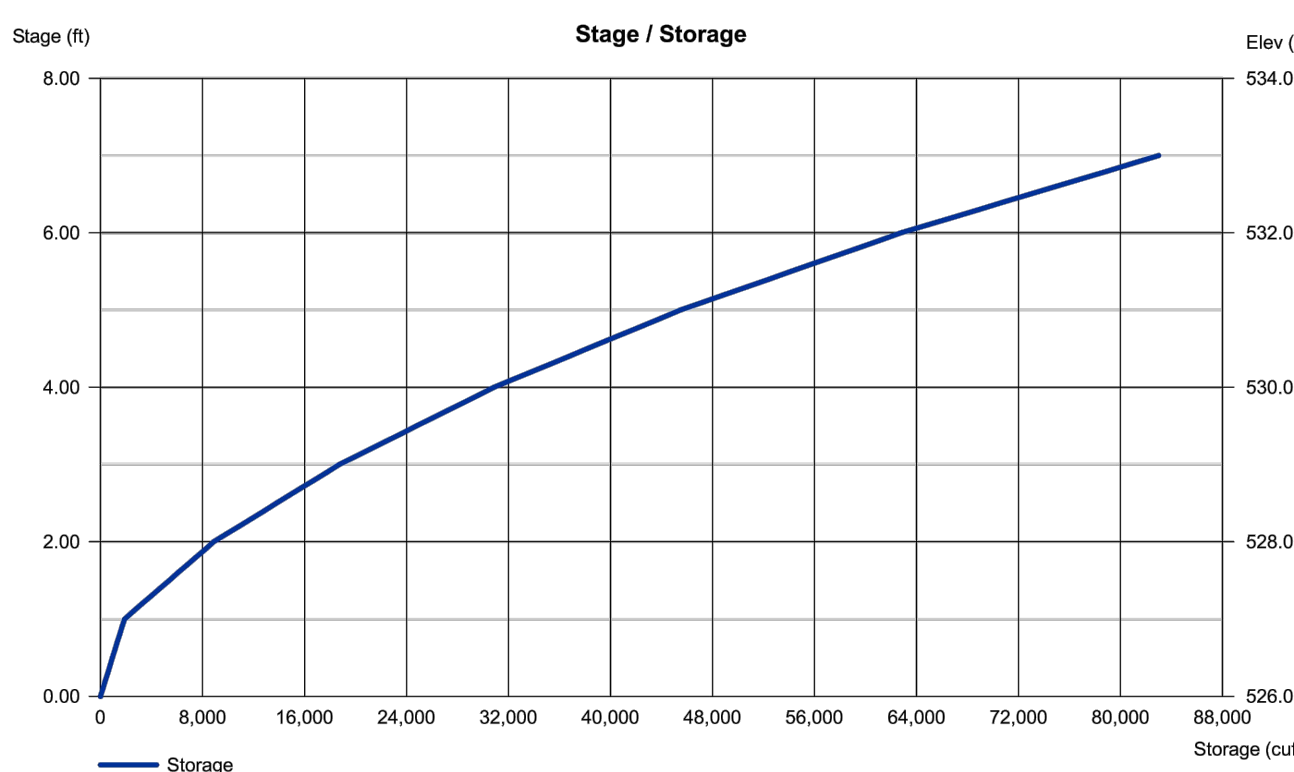
Pond No. 1 - <New Pond>

Pond Data
Contours - User-defined contour areas. Conic method used for volume calculation. Beginning Elevation = 526.00 ft

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	526.00	10	0	0
1.00	527.00	5,381	1,874	1,874
2.00	528.00	8,776	7,009	8,883
3.00	529.00	10,960	9,847	18,730
4.00	530.00	13,348	12,133	30,863
5.00	531.00	15,539	14,923	45,786
6.00	532.00	18,734	17,316	62,802
7.00	533.00	21,732	20,212	83,015

Culvert / Orifice Structures				Weir Structures			
[A]	[B]	[C]	[PrfRsr]	[A]	[B]	[C]	[D]
Rise (in)	= 24.00	0.00	0.00	Crest Len (ft)	= 0.00	0.00	0.00
Span (in)	= 24.00	0.00	0.00	Crest El. (ft)	= 0.00	0.00	0.00
No. Barrels	= 1	0	0	Weir Coeff.	= 3.33	3.33	3.33
Invert El. (ft)	= 526.00	0.00	0.00	Weir Type	= --	--	--
Length (ft)	= 262.06	0.00	0.00	Multi-Stage	= No	No	No
Slope (%)	= 0.37	0.00	0.00	Exfil. (in/hr)	= 0.00	(by Contour)	
N-Value	= .013	.013	0.13	TW Elev. (ft)	= 0.00		
Orifice Coeff.	= 0.60	0.60	0.60				
Multi-Stage	= n/a	No	No				

Note: Culvert/Orifice outfalls are analyzed under inlet (ci) and outlet (co) control. Weir risers checked for orifice conditions (ci) and submergence (ci).



Pond Report

Hydroflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2 Monday, 04 / 29 / 2019

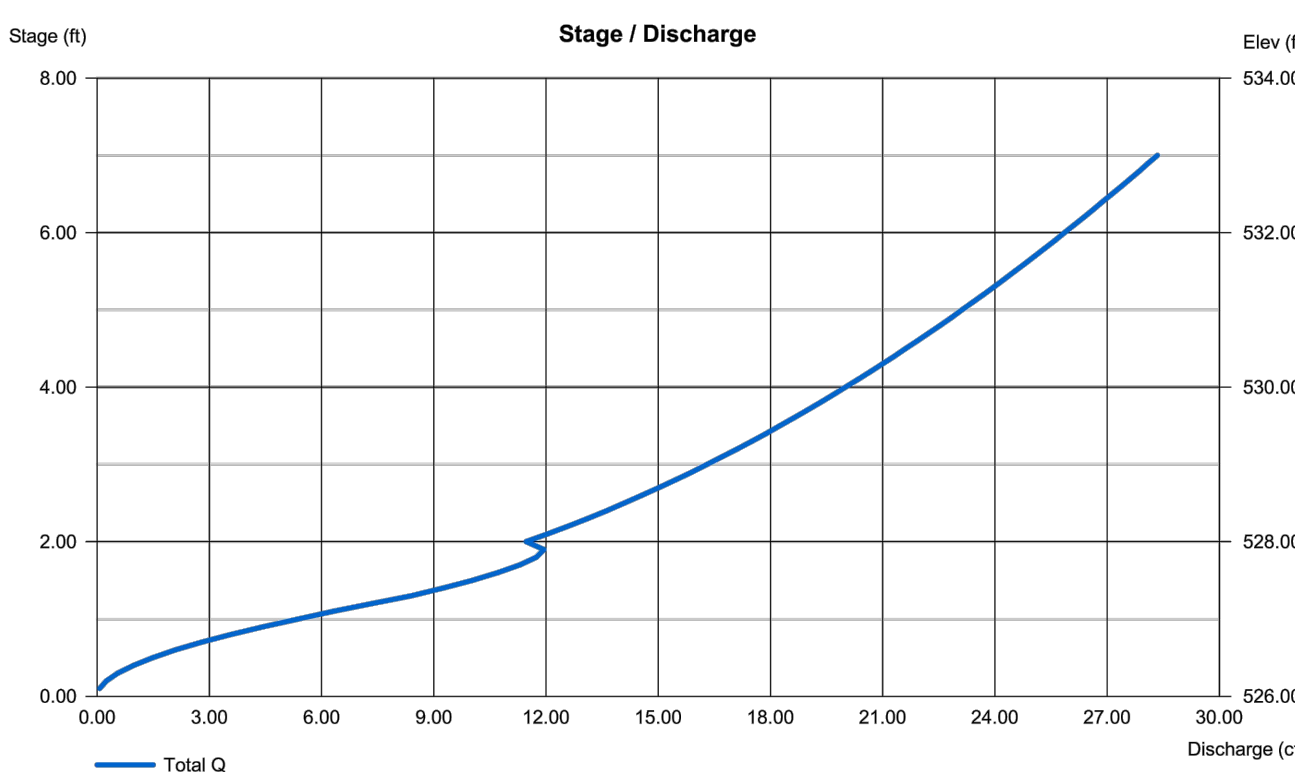
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Span (in)	= 24.00	0.00	0.00	Crest El. (ft)	= 0.00	0.00	0.00
No. Barrels	= 1	0	0	Weir Coeff.	= 3.33	3.33	3.33
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N-Value	= .013	.013	0.13	TW Elev. (ft)	= 0.00		
Orifice Coeff.	= 0.60	0.60	0.60				
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Note: Culvert/Orifice outfalls are analyzed under inlet (ci) and outlet (co) control. Weir risers checked for orifice conditions (ci) and submergence (ci).



Hydrograph Report

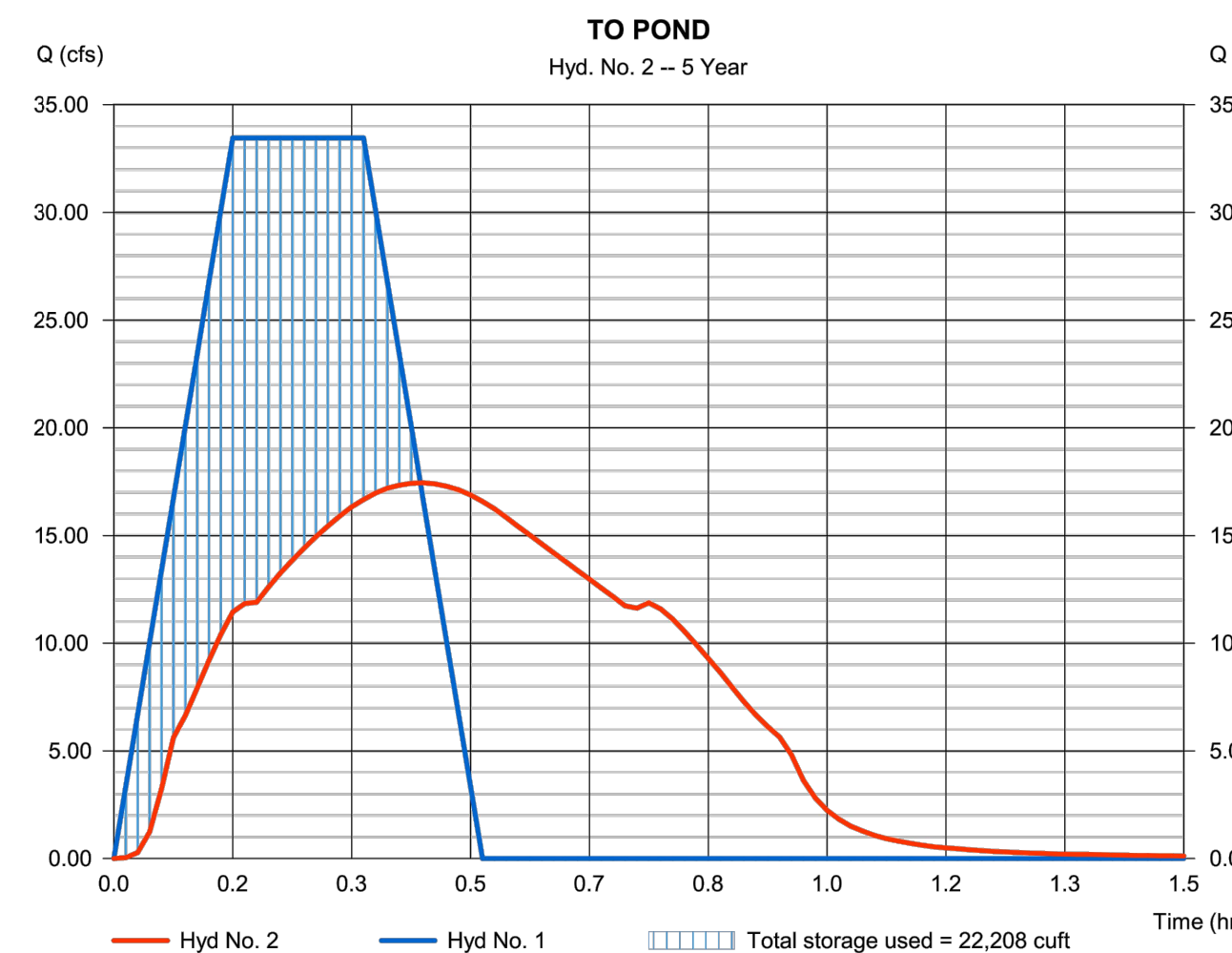
Hydroflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2 Monday, 04 / 29 / 2019

Hyd. No. 2

TO POND

Hydrograph type	= Reservoir	Peak discharge	= 17.44 cfs
Storm frequency	= 5 yrs	Time to peak	= 0.43 hrs
Time interval	= 1 min	Hyd. volume	= 42,163 cuft
Inflow hyd. No.	= 1 - into pond	Max. Elevation	= 529.29 ft
Reservoir name	= <New Pond>	Max. Storage	= 22,208 cuft

Storage Indication method used.



Hydrograph Report

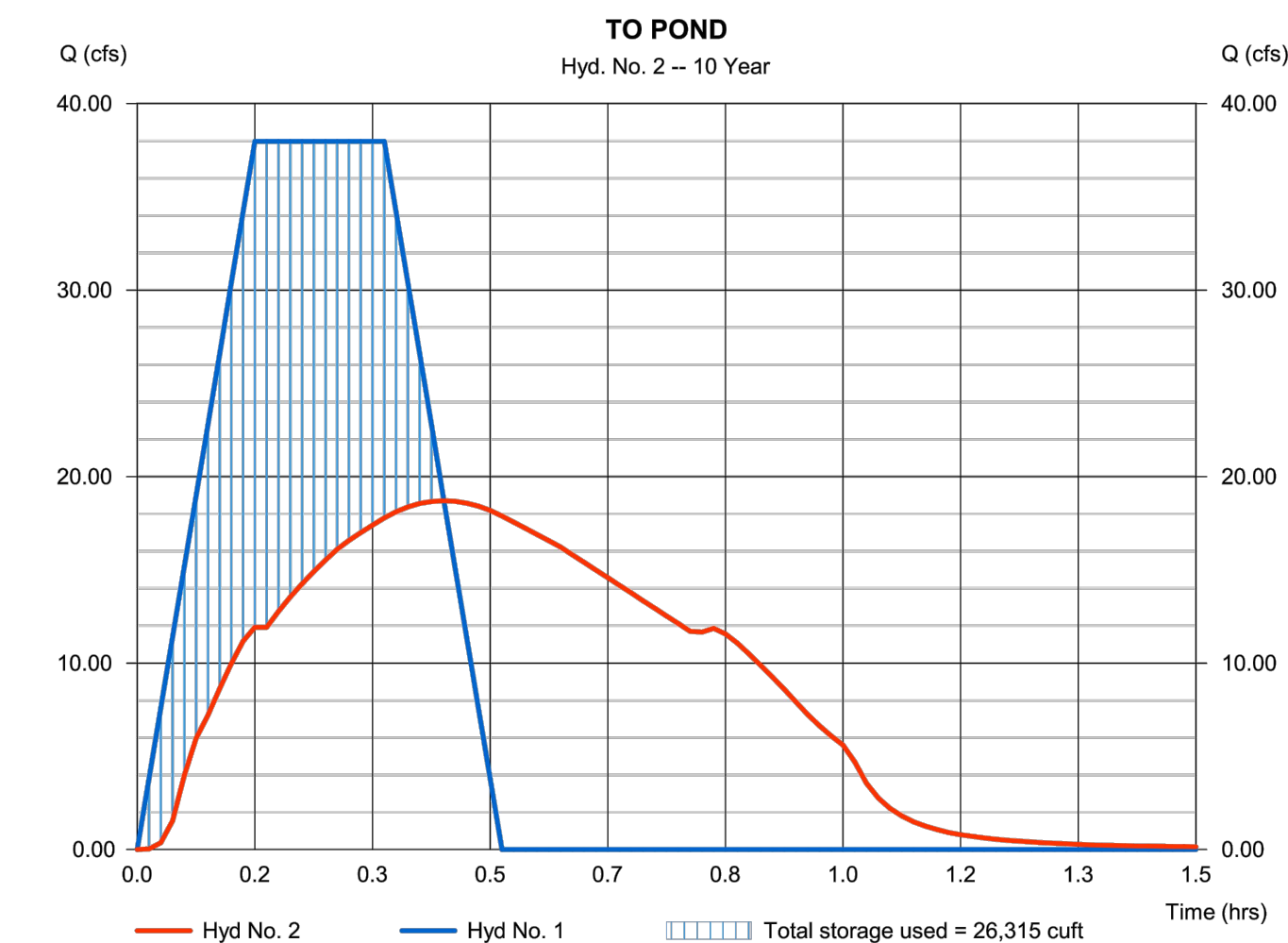
Hydroflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2 Monday, 04 / 29 / 2019

Hyd. No. 2

TO POND

Hydrograph type	= Reservoir	Peak discharge	= 18.70 cfs
Storm frequency	= 10 yrs	Time to peak	= 0.43 hrs
Time interval	= 1 min	Hyd. volume	= 47,856 cuft
Inflow hyd. No.	= 1 - into pond	Max. Elevation	= 529.63 ft
Reservoir name	= <New Pond>	Max. Storage	= 26,315 cuft

Storage Indication method used.



Hydrograph Report

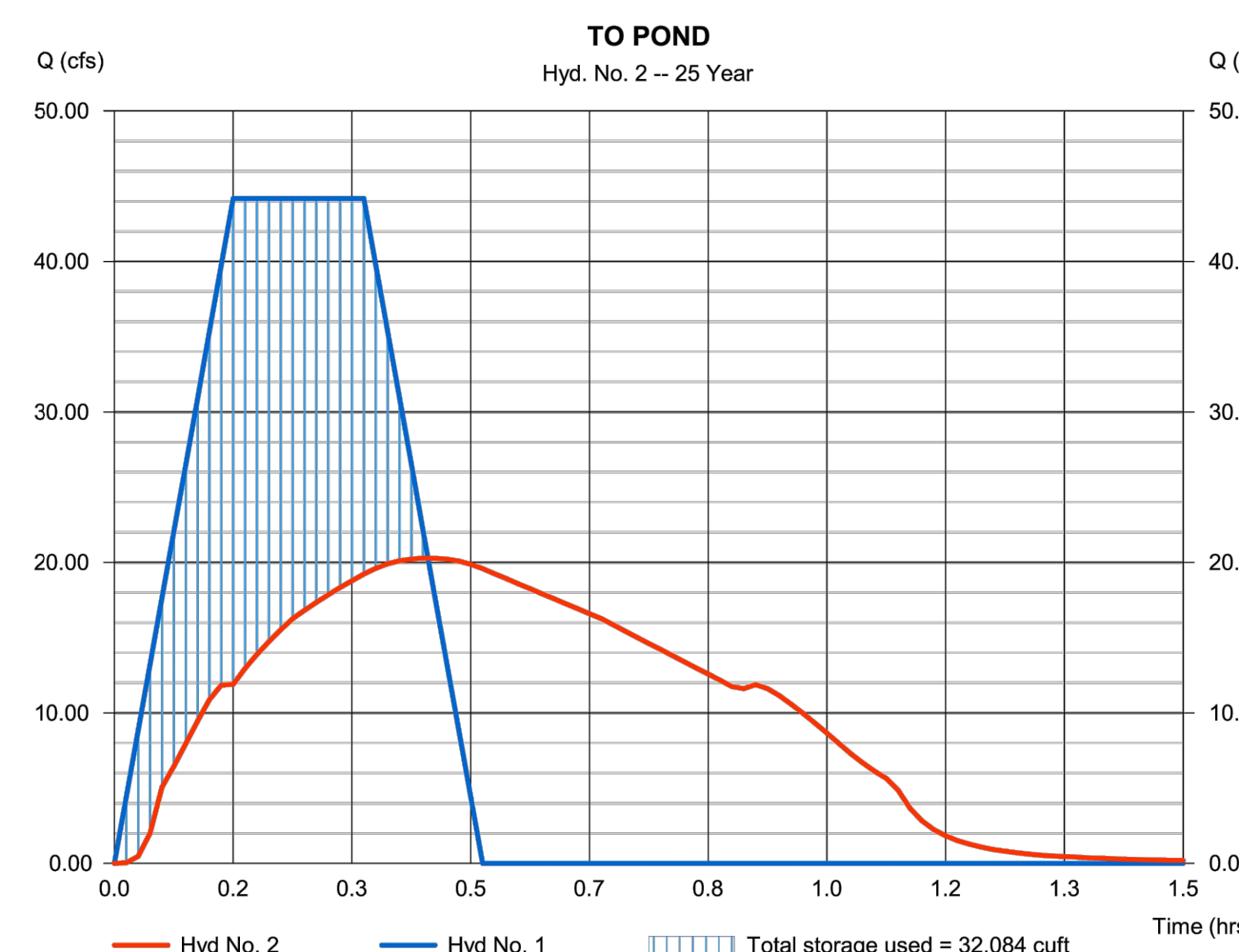
Hydroflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2 Monday, 04 / 29 / 2019

Hyd. No. 2

TO POND

Hydrograph type	= Reservoir	Peak discharge	= 20.28 cfs
Storm frequency	= 25 yrs	Time to peak	= 0.43 hrs
Time interval	= 1 min	Hyd. volume	= 55,666 cuft
Inflow hyd. No.	= 1 - into pond	Max. Elevation	= 530.09 ft
Reservoir name	= <New Pond>	Max. Storage	= 32,084 cuft

Storage Indication method used.



Hydrograph Report

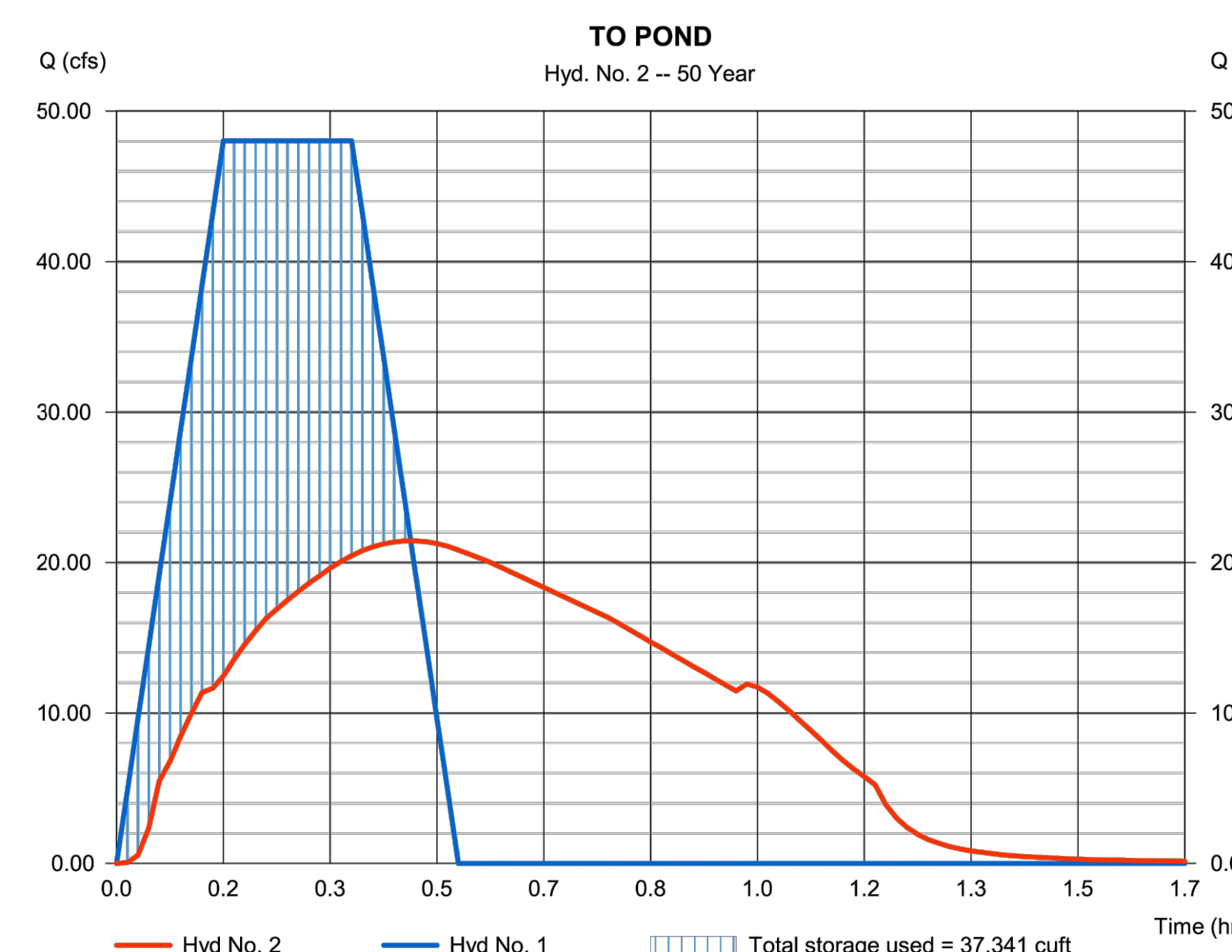
Hydroflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2 Monday, 04 / 29 / 2019

Hyd. No. 2

TO POND

Hydrograph type	= Reservoir	Peak discharge	= 21.44 cfs
Storm frequency	= 50 yrs	Time to peak	= 0.47 hrs
Time interval	= 1 min	Hyd. volume	= 63,400 cuft
Inflow hyd. No.	= 1 - into pond	Max. Elevation	= 530.45 ft
Reservoir name	= <New Pond>	Max. Storage	= 37,341 cuft

Storage Indication method used.



Hydrograph Report

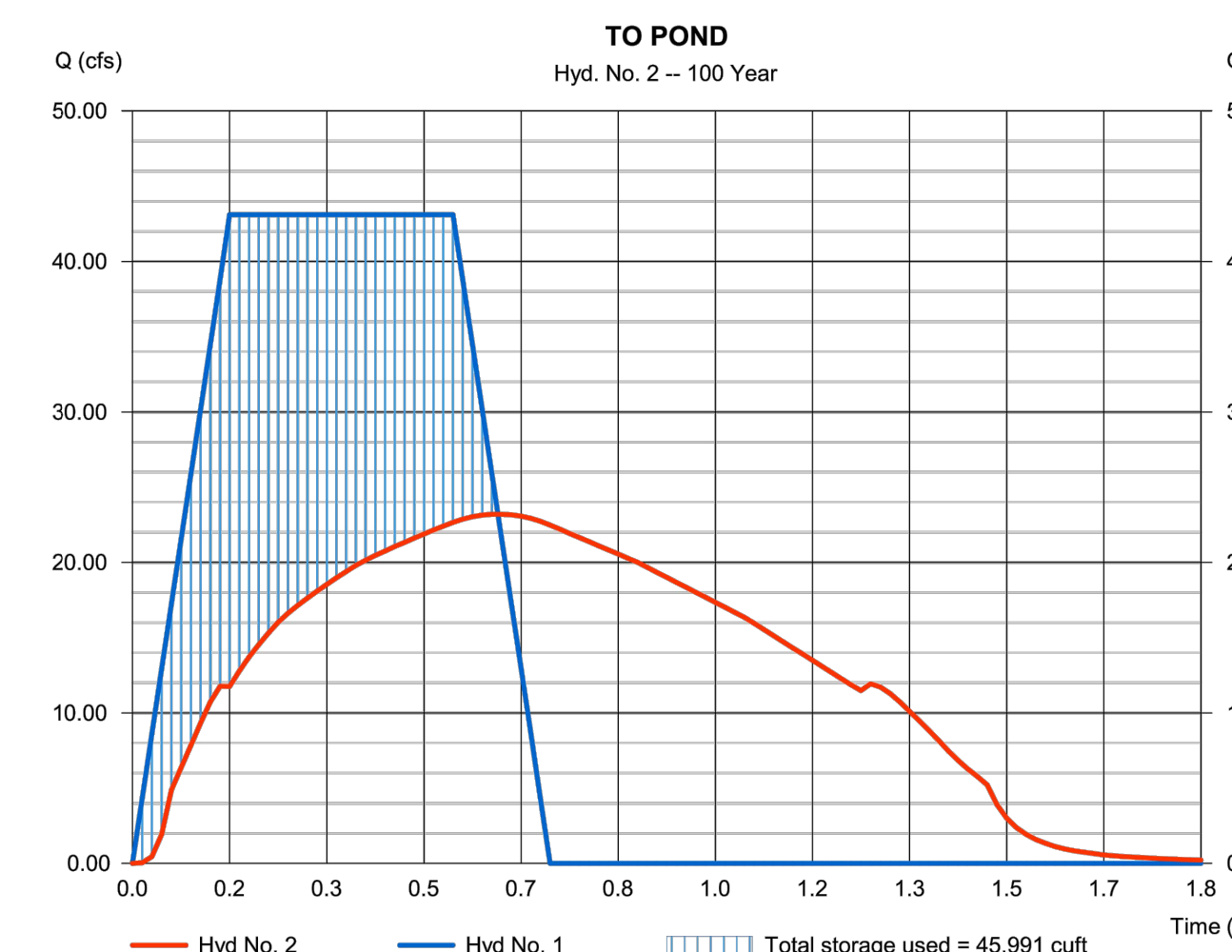
Hydroflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2019.2 Monday, 04 / 29 / 2019

Hyd. No. 2

TO POND

Hydrograph type	= Reservoir	Peak discharge	= 23.20 cfs
Storm frequency	= 100 yrs	Time to peak	= 0.63 hrs
Time interval	= 1 min	Hyd. volume	= 85,346 cuft
Inflow hyd. No.	= 1 - into pond	Max. Elevation	= 531.03 ft
Reservoir name	= <New Pond>	Max. Storage	= 45,991 cuft

Storage Indication method used.



RECORD DRAWING
THIS IS TO CERTIFY THAT CHANGES AND CORRECTIONS HAVE BEEN MADE TO CONFORM TO THE CONTRACTOR'S RECORD OF THIS PROJECT.

SIGN: *Cheryl Amig*

DATE: 06/01/2020

Glenn Engineering Corporation