Hydrology Report

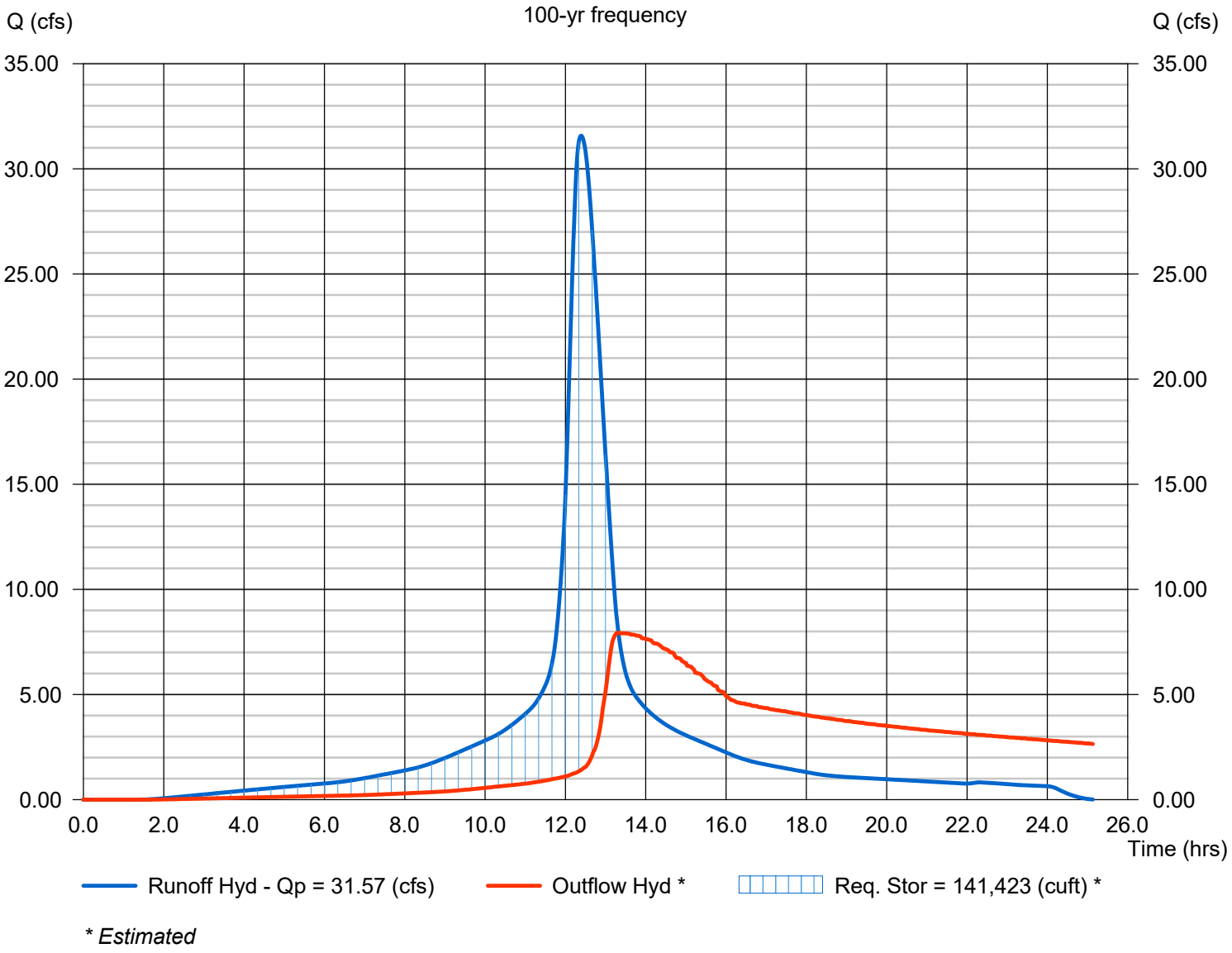
Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. Thursday, Oct 3 2019

<Name>

Hydrograph type	= SCS	Peak discharge (cfs)	= 31.57
Storm frequency (yrs)	= 100	Time interval (min)	= 1
Drainage area (ac)	= 5.590	Curve number (CN)	= 93
Basin Slope (%)	= *See Worksheet*	Hydraulic length (ft)	= *See Worksheet*
Tc method	= TR55	Time of conc. (min)	= 28
Total precip. (in)	= 12.60	Storm Distribution	= Type III
Storm duration (hrs)	= 24	Shape factor	= 284

Hydrograph Volume = 237,422 (cuft); 5.450 (acft)

Runoff Hydrograph



* *Estimated*

TR55 Tc Worksheet

SCS

<Name>

Description		A		B		C		Totals
Sheet Flow								
Manning's n-value	=	0.400		0.011		0.011		
Flow length (ft)	=	50.0		0.0		0.0		
Two-year 24-hr precip. ((in))	=	5.50		0.00		0.00		
Land slope (%)	=	1.00		0.00		0.00		
Travel Time (min)	**=**	**12.41**	**+**	**0.00**	**+**	**0.00**	**=**	**12.41**
Shallow Concentrated Flow								
Flow length (ft)	=	870.00		0.00		0.00		
Watercourse slope (%)	=	0.20		0.00		0.00		
Surface description	=	Paved		Paved		Paved		
Average velocity (ft/s)	=	0.91		0.00		0.00		
Travel Time (min)	**=**	**15.95**	**+**	**0.00**	**+**	**0.00**	**=**	**15.95**
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		
Travel Time (min)	**=**	**0**	**+**	**0**	**+**	**0**	**=**	**0.00**

Total Travel Time, Tc ..... 28.00 min