System requirements for Civil 3D 2024

Operating System	64-bit Microsoft® Windows® 11 or Windows 10 version 1809 or above. See Autodesk's Product Support Lifecycle for support information.
Processor	**Basic**: 2.5–2.9 GHz processor (base) ARM Processors are not supported. **Recommended**: 3+ GHz processor (base), 4+ GHz (turbo)
Memory	**Basic**: 8 GB **Recommended**: 32 GB
Display Resolution	**Conventional Displays**: 1920 x 1080 with True Color **High Resolution & 4K Displays**: Resolutions up to 3840 x 2160 (with "Recommended" display card)
Display Card	**Basic**: 2 GB GPU with 29 GB/s Bandwidth and DirectX 11 compliant **Recommended**: 8 GB GPU with 106 GB/s Bandwidth and DirectX 12 compliant DirectX 12 with Feature Level 12_0 is required for Shaded(Fast) and Shaded with edges(Fast) visual styles. Please be sure to use the latest drivers from the video card manufacturer's website. **Note**: Civil 3D uses your computer's display card for a variety of essential graphics operations including but not limited to view manipulation, line smoothing, and text/linetype generation. It's recommended that you have a display card with dedicated VRAM to support these operations at optimal speeds.
Disk Space	20.0 GB (suggested SSD)
Network	See Autodesk Network License Manager for Windows
Pointing Device	MS-Mouse compliant
.NET Framework	.NET Framework version 4.8 or later

Additional Requirements for large datasets, point clouds, and 3D modeling

Memory	16 GB RAM or more
Disk Space	6 GB free hard disk available, not including installation requirements
Display Card	3840 x 2160 (4K) or greater True Color video display adapter; 12 GB VRAM or greater; Pixel Shader 3.0 or greater; DirectX-capable workstation class graphics card.

AutoCAD Map 3D Additional Requirements (Windows Only)

FDO Provider Requirements

FDO Provider	Certified With	Notes
Microsoft SQL Server	Microsoft SQL Server 2017 Standard and Enterprise Editions Microsoft SQL Server 2019 Standard and Enterprise Editions	Industry Models also support the versions of Microsoft SQL Server listed on the left.
Oracle 12c Release 2	Oracle 12.2.0.1.0 Standard Edition and Enterprise Edition 2	Industry Models support the same Oracle versions as listed on the left.
Oracle 19c	Oracle 19.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
Oracle 21c	Oracle 21.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
Raster	DEM, JPG2K, DTED, MrSID®, ECW, PNG, ESRI® Grid, TIFF, JPEG, ESRI® ASCII	
Autodesk SDF	3.0	
ESRI ArcGIS	ArcGIS® 10.8.1 ArcGIS® 10.7.1 ArcGIS® 10.6.1	This Provider requires ESRI licensed components (ArcGIS Engine/ArcGIS Desktop) to be installed on Map 3D installed system.
MySQL	8.0	
ODBC	The FDO ODBC provider has been tested with corresponding versions of ODBC drivers that are shipped with the relevant supported operating systems version.	
OGC WMS	WMS 1.3.0	
OGC WMTS	WMTS 1.0.0	
OGC WFS	WFS 2.0.0	
SQLite	SQLite 3.27.2	
PostgresSQL	PostgreSQL 13.9 + PostGIS 3.0	

ODBC Drivers	Tested Versions
Microsoft® Access® Driver (*.mdb, *.accdb)	Microsoft Access database engine 2016 (English) 16.00.4999.1000
Microsoft® Excel® Driver (*.xls, *xlsx, *.xlsm, *.xlsb)	Microsoft Access database engine 2016 (English) 16.00.4999.1000
MySQL® ODBC 8.0 Driver	8.00.31.00
SQL Server®	10.00.22000.01
Oracle® in OraClient21Home1	21.00.00.00