

Autodesk® AutoCAD® Civil 3D®

Release Comparison matrix

	2014	2015	2016	2017
USABILITY				
Online map data	✓	✓	✓	✓
Pressure pipe content (enhanced)				✓
Create feature lines without having to create a site.				✓
PROJECT MANAGEMENT				
Create pressure network data shortcuts and references	✓	✓	✓	✓
Create Autodesk® Vault® projects at any level below the working folder	✓	✓	✓	✓
Vault support for pressure networks		✓	✓	✓
Manage data shortcuts to repair broken shortcuts and replace DWG objects			✓	✓
Display vault project objects that exist in subfolders within object type			✓	✓
Create data references to objects that exist in different vault projects			✓	✓
Corridor data shortcut (DREF) (enhanced)				✓
Centralize management and improve enforcement of design standards.				✓
Cache DREF surface				✓
Subfolders help organize model data.				✓
Add multiple DREFs via simple drag-drop operations.				✓
COLLABORATION AND DATA EXCHANGE				
Import pipes and civil roads from Autodesk® InfraWorks® 360	✓	✓	✓	✓
Export profile data to InfraWorks 360	✓	✓	✓	✓
Save files and dependency files to A360	✓	✓	✓	✓
Export data to KML and KMZ formats		✓	✓	✓
Data exchange between AutoCAD Civil 3D and InfraWorks 360		✓	✓	✓
Import and export IFC (Industry Foundation Class) files			✓	✓
Enables user created property set definitions.				✓
Integrated roundabout workflows with Autodesk® InfraWorks® 360.				✓
PLAN PRODUCTION AND PRODUCTION DRAFTING				
Add pressure networks to plan production sheets	✓	✓	✓	✓

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SURVEY				
Save survey queries and open in survey query builder	✓	✓	✓	✓
Export and import survey query files for reuse	✓	✓	✓	✓
POINT CLOUDS				
Point cloud object	✓	✓	✓	✓
Point cloud contextual user interface		✓	✓	✓
Support for point clouds processed in Autodesk® ReCap® (.RCS, .RCP)		✓	✓	✓
SURFACES				
Create surface from a point cloud		✓	✓	✓
Create AutoCAD solids from TIN surfaces		✓	✓	✓
ALIGNMENTS AND PROFILES				
Projecting solids to profile view	✓	✓	✓	✓
Free circular vertical curve, free parabolic vertical curve additional options		✓	✓	✓
Unlock and change constraint types of vertical curves		✓	✓	✓
Extend fixed and floating profile entities		✓	✓	✓
Options to control how layout profile geometry is anchored		✓	✓	✓
CORRIDOR MODELING				
Select the targets for a corridor from xrefs	✓	✓	✓	✓
Extract corridor solids	✓	✓	✓	✓
Check sight distance	✓	✓	✓	✓
New design criteria files	✓	✓	✓	✓
3D areas for corridors reported in quantity takeoff report		✓	✓	✓
Retain existing corridor targets when replacing a sub-assembly		✓	✓	✓
Corridor frequency options for curved portions of baselines and offsets		✓	✓	✓
Specify that sample lines are incremented		✓	✓	✓
Select alignments by layer to be used as width and targets			✓	✓
Bring roundabouts into AutoCAD Civil 3D from Autodesk® InfraWorks® 360.				✓
Leverage the corridor for design of site features.				✓
Model shapes at interior/exterior corners of a design.				✓
Extract corridor Feature Line workflow				✓
Automates the association of property data to corridor solids.				✓

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QUANTITY AND MATERIAL ANALYSIS				
Assign pay items to pressure network parts in parts list	✓	✓	✓	✓
Manage material list and materials for sample line groups	✓	✓	✓	✓
SECTIONS & SECTION VIEWS				
Create sections of projected AutoCAD solids	✓	✓	✓	✓
Create sliced solids of pipe networks		✓	✓	✓
Control the direction of sections in section views			✓	✓
SUBASSEMBLY COMPOSER				
Offset geometry		✓	✓	✓
View target parameters in preview		✓	✓	✓
Apply AOR setting available for applying superelevation or cant to link		✓	✓	✓
Input/Output parameter types for applying superelevation		✓	✓	✓
Cant tab for viewing cant effect on a rail subassembly		✓	✓	✓
Loop geometry support			✓	✓
PRESSURE NETWORKS				
Create pressure networks from objects	✓	✓	✓	✓
Edit multiple pressure network parts in plan view by sliding or moving	✓	✓	✓	✓
Edit multiple pressure network parts in profile view by slope or elevation	✓	✓	✓	✓
Use the 3D plane compass setting to rotate the compass plane	✓	✓	✓	✓
Use the rotate grip to rotate pressure fittings and appurtenances (model)	✓	✓	✓	✓
Add pressure networks to section views	✓	✓	✓	✓
Display crossing pipes in profile view	✓	✓	✓	✓
Sort pressure network part list by size	✓	✓	✓	✓
Create AutoCAD solids from pressure pipe networks		✓	✓	✓
PIPE NETWORKS				
Create AutoCAD solids from pipe networks		✓	✓	✓
Create exclusionary catchments			✓	✓

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ANNOTATION				
Add pressure network pipe, fitting, and appurtenance tables	✓	✓	✓	✓
Staggering corridor point code labels		✓	✓	✓
Object reference labels can be changed in the properties palette		✓	✓	✓
Control labeling reference text objects in the properties palette		✓	✓	✓
Crossing pipe and pressure pipe profile view labels			✓	✓
Pressure pipe labels in section views			✓	✓