

# AutoCAD® Civil 3D® Release Comparison Matrix

## LEGEND

- ✓ Supported Feature
- ENHANCED** Enhanced Feature
- NEW** New Feature

	2009	2010	2011
<b>USABILITY</b>			
Application Menu		<b>NEW</b>	✓
New User Interface		<b>NEW</b>	✓
Context Specific User Interface Tabs		<b>NEW</b>	✓
Menu Tooltips		<b>NEW</b>	✓
Zoom to Point			<b>NEW</b>
64-bit version			<b>NEW</b>
<b>MULTIUSER PROJECT ENVIRONMENT</b>			
Multiuser Project Environment	<b>NEW</b>	<b>ENHANCED</b>	✓
Labeling Through XREF	<b>NEW</b>	✓	✓
<b>PLAN PRODUCTION AND PRODUCTION DRAFTING</b>			
Plan Production Wizard	✓	✓	✓
Customized Object Styles	✓	<b>ENHANCED</b>	<b>ENHANCED</b>
Customized Label Styles	✓	<b>ENHANCED</b>	<b>ENHANCED</b>
Cross Section Sheet Styles	✓	✓	<b>ENHANCED</b>
Cross Section Sheet Labels	✓	✓	<b>ENHANCED</b>
Cross Section Object Projection		<b>NEW</b>	<b>ENHANCED</b>
Profile Hatching		<b>NEW</b>	✓
Profile Object Projection		<b>NEW</b>	✓
Profile and Section Band Label Grips		<b>NEW</b>	✓
Create Section Sheets Wizard			<b>NEW</b>

	2009	2010	2011
<b>SURVEY</b>			
Translate Survey Database	✓	✓	✓
Survey Figure Creation	✓	✓	ENHANCED
Data Connection Link	NEW	ENHANCED	✓
Automatic Linework from Points and Linework Code Sets		NEW	✓
Survey Data Wizard		NEW	✓
Edit Survey Figure Vertices			NEW
Point File Format with User-Defined Properties			NEW
Survey Change Report			NEW
<b>POINT CLOUDS</b>			
Point Cloud Object			NEW
Point Clouds Display			NEW
Creating Surfaces from Point Clouds			NEW
<b>SURFACES</b>			
Reorder Surface Operations	NEW	✓	✓
Simplify Surface	NEW	✓	✓
Surface Volume Correction	NEW	✓	✓
Data Clip Boundary	NEW	✓	✓
Finding and Resolving Crossing Breaklines			NEW
Create Surface from GIS Data			NEW
Crop Surfaces			NEW
<b>PARCELS</b>			
Automatic Parcel Sizing Tools based on frontage from an offset		NEW	✓
Temporary Layout Graphics		NEW	✓
<b>GEOSPATIAL ANALYSIS</b>			
Thematic mapping	✓	✓	✓
Topology (Drawing objects)	✓	✓	ENHANCED
Buffering	NEW	✓	✓
Overlay (Features)		NEW	✓

	2009	2010	2011
<b>ALIGNMENTS AND PROFILES</b>			
Tangents, Curves and Spirals	✓	ENHANCED	ENHANCED
Best Fit Entities	NEW	✓	✓
Criteria Based Design	NEW	✓	✓
Design Checks	NEW	✓	✓
Alignment Types (Centerline, Offset, Curb Return, Misc)		NEW	✓
Dynamic Offset Alignments and Widening		NEW	ENHANCED
Alignment Masks		NEW	✓
Profile Locking		NEW	✓
Extending Profile Tangents to PVI			NEW
Best Fit Alignment and Profile			NEW
Create Alignment from Existing Alignment			NEW
<b>SUPERELEVATION</b>			
Import Superelevation from CSV			NEW
Dynamic graphical editing of superelevation transitions			NEW
<b>CORRIDOR MODELING</b>			
Use Survey Figures, Feature Lines and/or Polylines as Targets	NEW	✓	✓
Extract dynamic alignments, profiles, polylines and/or feature lines	NEW	✓	✓
Copy/move/mirror subassemblies	NEW	✓	✓
Assembly sharing	NEW	✓	✓
Automatic Surface Boundary Creation for Multiple Baseline Corridor		NEW	✓
QTO Pay Items for Corridor Feature Lines and Links		NEW	✓
Creation and Editing of Complex Corridors via Visual Interaction		NEW	ENHANCED
<b>INTERSECTION MODELING AND ROUNDABOUT LAYOUT</b>			
Intersection Object		NEW	✓
Automatic Creation of Intersection corridor regions and targets		NEW	✓
2D Layout Design Tool for Roundabouts			NEW
<b>SECTIONS AND SECTION VIEWS</b>			
Section View Wizard	NEW	✓	✓
Mass Haul Diagrams	NEW	✓	✓
Wizard-driven generation of layouts for plotting cross section			NEW
Project objects to multiple plotted sections			NEW

	2009	2010	2011
<b>GRADING</b>			
Feature Lines in Prospector	NEW	✓	✓
Feature Line names	NEW	✓	✓
<b>PIPE NETWORKS</b>			
Pipe Networks Pipe Catalog	✓	ENHANCED	ENHANCED
QTO Pay Items built into Pipe Network		NEW	✓
Pipe network from Polyline			NEW
Pipe network Join and Break			NEW
<b>VISIBILITY CHECKS</b>			
Drive Tool			NEW
Line of Sight Tools			NEW
<b>DATA INTEROPERABILITY</b>			
Import DGN	✓	✓	ENHANCED
Export to DGN	✓	✓	ENHANCED
Open Source and Third-Party FDO Data Provider integration	✓	✓	ENHANCED
Direct Read/Write Spatial Data (FDO technology)	✓	✓	✓
Import and Export GIS files (e.g. SHP, SDF, TAB, GML, SDTS)	✓	ENHANCED	✓
PDF Export	✓	ENHANCED	✓
Google Earth™ Image and Data Import	✓	ENHANCED	✓
PDF Underlay		NEW	✓
Autodesk® Revit® Building Model		NEW	✓
Copy Elements from DGN Underlay			NEW
<b>QUANTITY TAKEOFF</b>			
Quantity Takeoff Manager		NEW	✓
Pay Item Assignment to drawing objects		NEW	✓
Quantity Takeoff Reports		NEW	✓
Pay Item Assignment to Corridors and Pipe Networks		NEW	ENHANCED