

ICDAS AutoCAD Civil 3D Bridges Manual

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Dear users

Welcome to AutoCAD Civil 3D for creation of corridors.

This manual gives you an overview of the part of AutoCAD Civil 3D being used in integration with Revit Civil Structures (ICDAS Bridges Option 2).

The manual guides you step-by-step on how to create corridors for the over- and underpasses needed in Revit Civil Structures. The manual is a part of Bridge Modelling Revit Extensions (REX) which is also called Civil Structures where you run "Integration with AutoCAD Civil3D" in Revit.

The manual will guide you through the first five chapters on how to create corridors in Civil 3D. The chosen corridors are simple just to highlight the required input in Revit Civil Structures. From these examples the users can build more complicated corridors for the pavement over- and underpass. When the corridors updated Civil 3D, the user run "Integration with AutoCAD Civil3D" again in Revit to update the bridge.

Revit Civil Structures needs only the overpass pavement geometry from Civil 3D since the deck will be create in Revit Civil Structures.

Civil Structures 2017 addin is the latest Autodesk release pt. 26-06-2018. The users need therefore to create bridge in Revit 2017 first (and Civil 3D 2017) then open it in Revit 2018 to run ICDAS 2018 addin.

If you have the corridors created in Bentley MicroStation InRoads/InRails, they can be imported in Civil3D as outlined in Chapter 6 and 7.

Chapter 8 guides you how to set map aerial in Civil 3D. You will obtain high resolution terrain background through Autodesk on line map. This aerial image background will be helping the user to design terrain model precise at the location, with surface contour elevation obtained from Civil 3D.

Note that Google Earth surface can only be imported in Civil 3D 2012.

ICDAS staff.

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Contents

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