AUTODESK

Autodesk[®] Civil 3D[®] Country Kit Documentation

Norway

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1.0 Overview

1.1 Version History

Versions of this document:

Version	Date	Update Description
1.0	4/15/20	Updated for Autodesk [®] Civil 3D [®] 2021
2.0	3/30/2021	Updated for Autodesk [®] Civil 3D [®] 2022

1.2 Introduction

This document describes the content and new of this Country Kit.

1.3 Standards used to create this Country Kit

This Country Kits is based on the following standards:

- Civil 3D Standard
- Håndbok N100 Veg- og gateutformning

1.4 Installation

The Country Kit is installed using the appropriate msi-file.

2.0 Country Kit Content

2.1 Drawing template

The Country Kit contains a template file with settings for the local market: _Autodesk Civil 3D 2022 NOR.dwt

Generally, styles named Standard should only be used if no other style of that type exist. If only a style named Standard exist for a certain type, this style should however be used.

2.2 Layer Standard

The layer standard follows a Civil 3D "clear text" standard according to the image below.

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2.3 Pipe Catalog and Parts Lists

Pipe Catalog and corresponding parts lists are available at the locations below. User needs to use command **Set Pipe Network Catalog** to set correct local catalog!



2.4 Pay Item File

There is a localized Pay Item File located at the folder as

These Pay Item IDs are setup in some Pipe Network Parts Lists and some Code Set Styles according to the second and third image below.

See section Quantity Takeoff Reports, below in this document for information on reports!

To better support BIM360, the Pay Item Files have been renamed from Ledninger-Kummer+Veg_NOR.csv and Ledninger-Kummer+Veg_NOR.xml to **NOR.csv** and **NOR.xml**. This is due to the limitation of umber of characters in file search path and name in BIM360. However, the old files still remain in the installation to support older dwg-files.

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2.5 Export to Civil View for 3DsMax

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2.6 Infraworks Exchange Settings

There is a localized Exchange Settings Configuration File, for command CONFIGUREAIWIMPORT, at location below.

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Also note that settings in some Code Set Styles are setup for Infraworks communication.

Link Code Styles are coded with correct link style and render material for import to InfraWorks. In InfraWorks, import using Style Rule "All.Rules.Json".

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2.7 Superelevation Design Criteria File

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📄 _Autodesk Civil 3D Metric (2011) Roadway Design Standards.xml	2018-03-01 16:44	XML Document	424 KB	
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_Svensk cirkulationsplats_SWE.xml	2019-03-28 14:07	XML Document	8 KB	
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2.8 Roundabout Design Criteria File

There are two different localized Roundabout Design Criteria Files available. One for the "old" command CREATEROUNDABOUT, see image 3 and 4 below, and one for the "new" AVT-command RoundaboutCreate, see image 1 and 2 below.

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_Autodesk Civil 3D Metric Roadway Design Standards.xml	2018-03-01 16:44	XML Document	236 KB		
Norsk rundkjoring_NOR.xml	2019-03-28 14:07	XML Document	8 KB		
 Svensk cirkulationsplats_SWE.xml Autodeck Civil 3D Metric (2004) Roadway Design Standards yml 	2019-03-28 14:07	XML Document	8 KB //21 KB		
Autodesk Civil 3D Metric Roundabouts Presets.xml	2010-04-28 18:16	XML Document	17 KB		
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2.9 Intersection Assembly Set

There is a localized assembly set located as in the image below. The assembly names are translated but uses standard Civil 3D Stock Subassemblies.

A Create Intersection	- Corridor Regions		×
General Geometry Details Corridor Regions	Create conidors in the intersection area Create a new conidor Add to an existing conidor Komidor (1) Select assembly set to import:	Select surface to daylight:	
	C:\ProgramData\Autodesk\C3D 2020\enu\Assemblies\NOR\Assembly Set_ Corridor Region Section Type 	NOR.xml Browse Save as a set Assembly to Apply Vegkrysskurver Hovedveg gjennom vegkryss Hovedveg komplett Hovedveg - Skråning Venstre Sideveg komplett Sideveg komplett Sideveg how plett	
	Secondary Koad Hair Section - Daylight Kight < Back	Cancel	Help

3.0 Reports

3.1 Parcel, Pipe and Surface Reports

Localized reports are available in the Toolbox as seen below.

I TOOLSPACE	
= 🤿 🔒 📰 ?	
🖶 🔚 Reports Manager 🔨 🔨	tor
Subscription Extension Manager	spec
🖶 🖶 Miscellaneous Utilities	Pro
🖶 🧱 Norwegian Reports Manager	
🖶 🏣 Parcel	
🔚 Stikningsplan	
🖶 🏣 Pipes	8
🔚 Ledninger	ttin
🔚 Kummer	Š
🔤 Ledninger og kummer	
🖻 🔚 Surface	
Volumrapport	
🖶 🔚 Norwegian Tools	≳
Create Points from Blocks	N ²
🔚 Lage Points fra Block	S
🖃 🏣 Viewport Coordinate Gridnet	
Koordinatrutenett for Viewport	
🖃 🔚 Change Contour Elevations	
Endre høyde for kotelinjer	ă
🖃 🔚 Corridor Gap Filler	olb
Corridor Gap Filler	Р

3.2 Volume Reports

Localized Volume reports are available in a subfolder

	A Select Style Sheet	· · · · · · · · · · · · · · · · · · ·	×
	Look in:	NOR ~	🖳 🕅 💥 🛄 🛛 <u>V</u> iews 🔻 Too <u>l</u> s 💌
A Report Quantities X	A History	Namn Volumberegning flera sjikt_NOR.xsl Volumberegning_NOR.xsl	Senast ändrad Typ 2017-04-07 13:16 XSL-formatmallen 2017-04-07 13:16 XSL-formatmallen
Select alignment:			
Select sample line group:			
Select material list: Materiallista (1)	Favorites		
Select a style sheet: 2:s Report Style Sheets\xsl\earthwork.xsl	Desktop		
Display XML report	FTP		
OK Cancel Help		<	>
	Civil 3D Proj	File <u>n</u> ame:	✓ Open ▼
	<mark>,</mark> ↓	Files of type: * _{XSI}	 ✓ Cancel

3.3 Quantity Takeoff Reports

Localized reports are available in the dropdown menu

A Quantity Takeoff Report	·		_		×
	SUMMERT RAPPORT				^
ID	Beskrivelse	Antall	Enh	et	
M2-Bundet bärlager	Bundet bärlager	709.72	M2		
M2-Obundet bärlager	Obundet bärlager	709.72	м2		
M2-Slitlager	Slitlager	709.72	M2		
				11-1-	>
TransPortDesignInterface.xsl	Uraw Save	As Clos	se	neip	
_Summering (CSV)_NOR.xsl _Summering (HTML)_NOR.xsl _Summering (TXT)_NOR.xsl _Summering (CSV)_SWE.xsl _Summering (HTML)_SWE.xsl Summary (CSV).xsl Summary (CSV).xsl Summary (HTML).xsl Summary (XML).xsl <browse></browse>					

3.4 Norwegian Tools

Localized tools are available in the Toolbox



4.0 Country Kit Change List

4.1 New command for Structure Details Report causing message dialog!

New command for Structure Details Report has been added. This command will force AutoCAD to through a message dialog saying "Security – Signed File Not in Trusted Folder". This is due to limitations in the Country Kit setup possibilities and we recommend to click "Always Load to load the new feature!

Security - Signed File Not in Trusted Folder X
This signed executable file is not located in a trusted folder. What do you want to do?
Name:C3D.StructureDetails.dllPublisher:CADsys Vertriebs und Entwicklungsgesellschaft mit beschr HaftunLocation:C:\ProgramData\Autodesk\ApplicationPlugins\C3DStructureDetails.bundle\Contents\WindowsIssuer:Sectigo RSA Code Signing CATime stamp:03/15/2021 16:28We recommend that you keep authorized executable files in read-only folders identified by the TRUSTEDPATHS system variable.Note: When you click the Always Load button, all executable files with a valid digital signature from that publisher will be trusted.
Show details Do Not Load
How do I decide what files to load?

Help File for this command is available at:

C:\ProgramData\Autodesk\ApplicationPlugins\C3D StructureDetails.bundle\Contents\Help

Help								_		×
← → • ↑	« Loc	cal Disk (C:) → ProgramData	> Autodesk > ApplicationPlugins >	C3D StructureDetails.	bundle > Contents > Help	~	Ö	Q	Searc	h H
🕹 Quick access	^	Name	Date modified	Туре	Size					
Desktop	*	For StructureDetails.pdf	2021-03-24 10:48	PDF File	706 KB					
Downloads	*									
Documents	*									
1 item										==

Command is found in Toolbox and on ribbon "C3D Add-Ins". Note that the ribbon normally loads the second time Civil 3D is started!



Example of a report:



4.2 Template Updates

- The following is a list of changes that have been made to the 2023 Template
 - × 2 ļ٩ Prospector × Master View 🗄 🔡 Rail E Commands 🖶 🊰 Rail Turnout 🗄 🗁 Turnout Styles 5tandard Settings 🖶 🗁 Label Styles E Label Sets 🕢 🗾 Standard 🗄 🗁 Turnout - 🛷 🕺 Standard Expressions 🖶 🗁 Turnout Profile Survey - 🎻 🕺 Standard Expressions E Critical Points Standard Expressions 🚊 🗁 Critical Points Profile Toolbox Standard Expressions TOOL SPACE 🗄 🗁 Turnout Dimension Profile - 🌮 Standard Expressions E Commands
- New styles and Labels for Rail:

nformation Marker Plan	Display Sur	mmary					
	[
View Direction:							
Plan	~						
Component display:							
Component Type	Visible	Layer	Color	Linetype	LT Scale	Linewe	Plot St
Theoretical Triangle	•	JB-VEKSEL	cyan	ByBlock	1	ByLayer	ByBlock
Theoretical Triangle Hatch	•	JB-VEKSEL	9	ByBlock	1	ByLayer	ByBlock
Boundary	•	JB-VEKSEL	yellow	ByBlock	1	ByLayer	ByBlock
Sleeper Details	e	JB-VEKSEL	BYLA	ByBlock	1	ByLayer	ByBlock
Sleeper Centerlines	e	JB-VEKSEL	red	ByBlock	1	ByLayer	ByBlock
Incompatible Warning	•	JB-VEKSEL	BYLA	ByBlock	1	ByLayer	ByBloc
Component batch display:							
Component Type	Pattern		Angle		So	ale	
Theoretical Triangle Hatch	SOLID)	50g		1		

Pro	operty	Value	Preview	Turnout Plan Label Style
	Label			
	Text Style	Standard		TOP
	Label Visibility	True		
	Layer	JB-VEKSEL-TEKST		
	Behavior			
	Orientation Reference	View		
	Forced Insertion	None		
	Force Inside Curve	None	Turnaul 4	
Ξ	Plan Readability			
	Plan Readable	True		
	Readability Bias	122.2222 (g)		
	Flip Anchors with Text	False		

New layers in Drawing Properties:

bject	Layer	Modifier	Value	Locked	1
🔅 Alignment	VEG	None		a	
Alignment-Labeling	VEG-TEKST	None		a	
Alignment Table	VEG-TABELL	None		a	
Appurtenance	VA-TILBEHOR	None		a	
Appurtenance-La	. VA-TEKST	None			
Assembly	NORMALPROFIL	None			
🐉 Building Site	BYGGNING	None			
🔩 Cant View	JB-OVERHOYDE-VISNI	None			
Catchment	TERRENG-AVRENNING	None			
Catchment-Labelin	g TERRENG-AVRENNIN	None			
Corridor	KORRIDOR	None			
Corridor Section	TVERRSNITT-KORRIDOR	None		e e e e e e e e e e e e e e e e e e e	
🕂 Crossover Group	JB-KRYSS	None		e e e e e e e e e e e e e e e e e e e	
Ĵ Feature Line	TERRENG-FEATURELINE	None			
Fitting	VA-BEND	None			
🔊 Fitting-Labeling 🔄	VA-TEKST	None		-	×

		Layer	Modifier	Value	Locked	
Section V	/iew Qua	VEG-TABELL	None			
🖽 Sheet		NOTERING	None		<u> </u>	
Structure	2	VA-KUM-ALLE	None			
Structure	e-Labeling	VA-TEKST	None			
🖞 Subasser	mbly	VEG	None			
Supereie	vation VI	VEG-TABELL	None			
Surface L	Legend	TERREING-TERST	None			
Survey F	igure La		None			
Survey F	igure-La		None			
Survey N	lotwork		None			
→ Jun Vey IV		TERRENG-TIN	None			- 1
Tin Surfa	ce-Label	TERRENG-TEKST	None		-	
Turnout	ice eaberri	1B-VEKSEI	None		-	- 1
🕅 View Fran	me	NOT-TEGNINGSRAMME	None		E C	
View Fra	me-Labe	NOT-TEGNINGSRAMM	None		A	- v

4.3 Previous Template Updates

- The following is a list of changes that have been made to the 2022 Template
- Code Set Styles "Alle koder" and "Plan (Render i 3D)" have been modified with codes for Norwegian Subassembly Coding.



New Surface Styles



- The following is a list of changes that have been made to the 2021 Template
- There is a new label style for crossings in profile view. In the Settings tab of the prospector, switch to Master View. Under the Autodesk Metric template, open Profile View>Label Styles>Crossing.
- There is a setting change in the Alignment Feature Settings, in the Settings tab rightclick on Alignment and choose Edit Feature Settings.... Expand Rail Alignment Options and change both "Measure rail curves along chords" and "Export rail alignment as center line alignment" to "Yes".
- Alignment>Label Styles>Station Offset: Profil nr & Sideforskyvning, was modified
- There is a setting change in the Platform Edge Options, in the Settings tab open Rail>Commands. Double-click on CreatePlatformEdge to open the "Edit Command Settings - CreatePlatformEdge". Under "Platform Edge Options" change the "Use

Platform Length" to "No". Also, Track Width has been set to 1.435m.

- General>Multipurpose Styles>Projection Styles: Two new styles have been added.
- General>Multipurpose Styles>Code Set Styles: Some styles where modified

New styles for Bridge



4.4 Modified Assembly Set (added to version 2021)

A Create Intersection	- Corridor Regions		×
General Geometry Details	Create conidors in the intersection area Create a new conidor Add to an existing conidor Konidor (1) Select assembly set to import: C:\ProgramData\Autodesk\C3D 2020\enu\Assemblies\NOR_Assembly Set	Select surface to daylight: Befintlig Mark t_NOR.xml Browse Save as a set	
	Corridor Region Section Type Maintain Priority Road Crown Curb Return Fillets Primary Road - Through Pavement Primary Road Patl Section Primary Road Patl Section – Daylight Left Primary Road Patl Section – Daylight Right Secondary Road Half Section - Daylight Left Secondary Road Half Section - Daylight Right Secondary Road Half Section - Daylight Right	Assembly to Apply Vegkrysskurver Hovedveg gjennom vegkryss Hovedveg komplett Hovedveg - Skråning Venstre Hovedveg - Skråning Høyre Sideveg komplett Sideveg halv - Skråning Venstre Sideveg halv - Skråning Høyre	
	< Back Next > Create Intersection	Cancel	Help

The Assembly Set below has been modified.

4.5 Pay Item Files

To better support BIM360, the Pay Item Files have been renamed from Ledninger-Kummer+Veg_NOR.csv and Ledninger-Kummer+Veg_NOR.xml to NOR.csv and NOR.xml. This is due to the limitation of umber of characters in file search path and name in BIM360. However, the old files still remain in the installation to support older dwg-files.