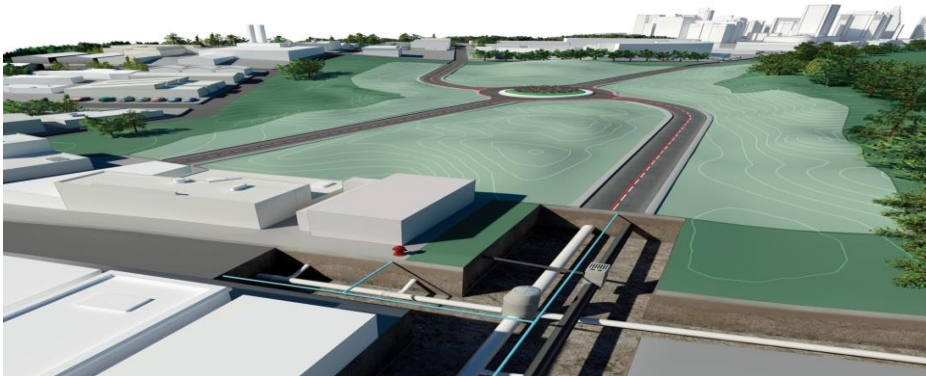


AutoCAD® Civil 3D®

“NOR Country Kit”

Workbook



Purpose of this document:

This document provides guidelines for development of Civil 3D Country kits

Country Kit Workbook

1	Overview.....	4
1.1	Introduction.....	4
1.2	Content Development Precaution.....	4
2	Fonts and Text Styles.....	5
3	Hatch Patterns.....	6
4	Layers.....	7
5	Reports.....	16
6	Drawing Settings > Object Layers.....	18
6.1	Object Layers.....	19
6.2	Ambient Settings.....	20
7	Object Styles.....	21
7.1	Multi-purpose Styles.....	22
7.2	Points.....	31
7.3	Surfaces.....	33
7.4	Parcels.....	39
7.5	Grading.....	41
7.6	Alignments.....	44
7.7	Profiles.....	47
7.8	Sections.....	53
7.9	Pipe Networks.....	58
	Overvann.....	59
	Spillvatten.....	62
	Vatten.....	64
7.10	Pressure Pipe Networks.....	72
7.11	Corridors.....	79
7.12	Plan and Profile Sheets.....	82
7.13	Survey.....	84
7.14	General - Multipurpose Styles – Shape Styles.....	84
8	Object Defaults.....	86
9	Tool palette(s).....	87
9.1	Subassemblies and assemblies.....	87
9.2	Material styles.....	87
9.3	Drawing symbols and (MV)Blocks.....	87
10	Pipe and Structure Catalogs.....	88
11	Highway design check files.....	89
12	Quantity Take Off.....	91
12.1	Overview of QTO.....	91
12.2	Creation of QTO.....	91
12.3	Installation of QTO.....	92
13	Superelevation standards.....	93
14	Intersection feature – Styles, Names and Assembly sets.....	94

15 Installation.....95

1 Overview

Den norska lokaliseringen är en översatt kopia av den svenska. Huvudsakligen skiljer endast namn på inställningarna. Detta dokument är därför huvudsakligen en kopia av det svenska dokumentet. Avsnitten om Layer samt Pipes skiljer sig dock markant och är ändrat till Norska. I vissa fall kan bilderna visa den svenska inställningen när dessa endast skiljs av översättningen.

The Norwegian Country Kit is a translated copy of the Swedish. The difference is mainly naming of styles. Therefore this document is mainly a copy of the Swedish document. The parts about Layers and Pipes are quite different though and are therefore changed to the Norwegian settings. Some images can display the Swedish setting even if the name states a Norwegian setting.

1.1 Introduction

This document is intended to provide a comprehensive guide to building and installing a country kit on AutoCAD Civil 3D 2015 and AutoCAD Civil 3D 2014. It also serves as the building block from which the user country kit help document should be created.

It provides a skeleton overview of everything that can be provided to make Civil 3D appear as a local product and a detailed view of new functionality in the latest release of Civil 3D. This somewhat assumes that a country kit of sorts already exists for the previous version, but if it doesn't exist for your local language then it is recommended to select the country kit deemed closest to your requirements from www.autodesk.com/civil3d-countrykits and proceed from there as your starting point.

This document should be provided in both English and your local language (where appropriate). Screen grabs are only required in local language, but descriptions of screen grabs should be provided in both English and local language.

Where a section is not provided for in your template(s) or kit, please do not delete the section or leave blank, but write "Not provided" to ensure that Autodesk know the section has been considered.

1.2 Content Development Precaution

It is important that you add, incrementally to existing country kits, various styles as noted in this document – using older templates that have been converted to latest version of Civil 3D as a baseline. Key things to note in developing these are:

- Autodesk require that all styles are stamped with the creator name as Autodesk. To automate this, **set your system log-in name as "Autodesk"** so that Created By and Modified By are not stamped with other user names
- Make sure **AutoCAD Architecture is not loaded, so that unnecessary dbx modules are not stamped in**. Each time – make sure that you save and exit current acad.exe session and reopen the dwt in new session to verify AutoCAD Architecture dbx modules are not loaded. It is good practice to save back multiple versions of your template so that we can go back to the previous good one. Autodesk will use Buzzsaw features to help automate this for you at Autodesk provided workshops.
- Please set PLINEGEN variable to 1.

2 Fonts and Text Styles

Norskt country kit använder standard AutoCAD text styles och fonts. Tabellen nedan visar dessa.
Norwegian country kit uses standard AutoCAD text styles and fonts, displayed in the table below.

Text Style	Description	Font	Plotted Size
Standard		SIMPLEX	1.5mm > 5.0mm
ISOCP		ISOCP	1.5mm > 5.0mm

3 Hatch Patterns

Norskt country kit använder standard AutoCAD raster (Hatch Patterns).

Norwegian country kit uses standard AutoCAD Hatch Patterns.

Hatch Pattern Name	Description	Hatch Pattern File

4 Layers

Nedanstående tabell visar de lager som används. De flesta lagernamn är självförklarande.

Det viktiga att förstå med lagerhanteringen är att själva Civil-objektet hamnar på ett lager enligt inställningen på Drawing Settings, fliken Object Layers (högerklicka på ritningsnamnet i Toolspace/Settings-fliken). Se mer om detta i avsnitt 6. Civil 3D:s olika stilar kan sedan använda andra lager för de olika objektdelarna som ingår i varje objekt.

Table below displays used layers. The layer name guides in norwegian and the description guides in english.

Färgstandard/Color standard:

Pen width, Color, Name

Färgstandard:

0.13, nr 8, grå/Grey

0.12, 12, mørkerød/deep red

0.18, 4, cyan

0.25, 1, gul/yellow

0.35, 3, vit/sv/white

0.50, 7, blå/blue

0.70, 6, rød/red

1.00, 2, grønn/green

1.20, 5, magenta

Name	Description	Color	Linetype	Used by style
A-BLANKETT		red	Continuous	
BYGGNING		cyan	Continuous	Building Site
BYGGNING-EIENDOM		cyan	Continuous	Building Site
BYGGNING-FINPLAN		cyan	Continuous	Building Site
BYGGNING-INSTALLASJONER		cyan	Continuous	Building Site
BYGGNING-MODELL		cyan	Continuous	Building Site
Defpoints		white	Continuous	
FEATURELINE-2D		white	Continuous	Feature Line Styles
FEATURELINE-3D		yellow	Continuous	Feature Line Styles
FEATURELINE-PROFIL		yellow	Continuous	Feature Line Styles
FEATURELINE-TVERRSNITT		yellow	Continuous	Feature Line Styles
INMALT-BYGNING	Survey Buildings: outline	yellow	Continuous	Survey Data
INMALT-FIGUR		white	Continuous	Survey Data
INMALT-FIXPKT	Survey Control points: benchmark.	white	Continuous	Survey Data
INMALT-GJERDE	Survey Site: fences	yellow	FENCELINE2	Survey Data
INMALT-HOYDE	Survey Control points: vertical.	white	Continuous	Survey Data
INMALT-KONTROLPUNKTER	Survey Control points: known points	yellow	Continuous	Survey Data
INMALT-LINJE	Survey: lines	yellow	Continuous	Survey Data
INMALT-PEL		yellow	Continuous	Survey Data
INMALT-PIKE	Survey Control points: sideshots	yellow	Continuous	Survey Data
INMALT-POLYGONPUNKT	Survey Control points: horizontal.	white	Continuous	Survey Data

INMALT-PROFIL		yellow	Continuous	Survey Data
INMALT-SKILT	Survey Node: sign.	yellow	Continuous	Survey Data
INMALT-STAMNETT	Survey Control points: traverse	yellow	Continuous	Survey Data
INMALT-STAMNETT-FEIL	Survey Control points: traverse errors	yellow	Continuous	Survey Data
INMALT-STAMNETT-LIN	Survey Control points: traverse lines	yellow	Continuous	Survey Data
INMALT-STAMNETT-NET	Survey Control points: traverse network	yellow	Continuous	Survey Data
INMALT-STAMNETT-PIKE	Survey Control points: traverse sideshot	white	Continuous	Survey Data
INMALT-STAMNETT-UKJENT	Survey Control points: unknown points	yellow	Continuous	Survey Labels
INMALT-TEKST	Survey: text	yellow	Continuous	Survey Data
INMALT-TRE	Survey Node: tree points.	yellow	Continuous	Survey Data
INMALT-VEG-KANT	Survey Road: curbs	yellow	BH90_KBK_BEF	Survey Data
INMALT-VEG-SENTERLINJE	Survey Road: centerline	yellow	BH90_VAGMITT_BEF	Survey Data
INMALT-VEGITASJON	Survey Site: vegetation, trees, shrubs	yellow	Continuous	Survey Data
K--DI---0		white	Continuous	Norwegian SOSI-Format
K--DI---0-F		white	Continuous	Norwegian SOSI-Format
K--DI---00494		white	Continuous	Norwegian SOSI-Format
K--DI---01000		yellow	Continuous	Norwegian SOSI-Format
K--DI---01201		white	Continuous	Norwegian SOSI-Format
K--DI---01202		white	Continuous	Norwegian SOSI-Format
K--DI---01205		white	Continuous	Norwegian SOSI-Format
K--DI---01211		white	Continuous	Norwegian SOSI-Format
K--DI---02001		cyan	Continuous	Norwegian SOSI-Format
K--DI---02001-U		white	Continuous	Norwegian SOSI-Format
K--DI---02002		white	Continuous	Norwegian SOSI-Format
K--DI---02102		cyan	Continuous	Norwegian SOSI-Format
K--DI---02200		green	DOT4	Norwegian SOSI-Format
K--DI---02206		blue	Continuous	Norwegian SOSI-Format
K--DI---03101		white	Continuous	Norwegian SOSI-Format
K--DI---03213		white	Continuous	Norwegian SOSI-Format
K--DI---04011		cyan	Continuous	Norwegian SOSI-Format
K--DI---04012		white	Continuous	Norwegian SOSI-Format
K--DI---04110		cyan	Continuous	Norwegian SOSI-Format
K--DI---04131		cyan	Continuous	Norwegian SOSI-Format
K--DI---04990		white	Continuous	Norwegian SOSI-Format

K--DI---05001	yellow	Continuous	Norwegian SOSI-Format
K--DI---05002	cyan	Continuous	Norwegian SOSI-Format
K--DI---05003	cyan	Continuous	Norwegian SOSI-Format
K--DI---05007	cyan	Continuous	Norwegian SOSI-Format
K--DI---05051	cyan	Continuous	Norwegian SOSI-Format
K--DI---05061	cyan	Continuous	Norwegian SOSI-Format
K--DI---05080	cyan	Continuous	Norwegian SOSI-Format
K--DI---05081	cyan	Continuous	Norwegian SOSI-Format
K--DI---05082	cyan	Continuous	Norwegian SOSI-Format
K--DI---06002	cyan	Continuous	Norwegian SOSI-Format
K--DI---06003	cyan	Continuous	Norwegian SOSI-Format
K--DI---06012	cyan	Continuous	Norwegian SOSI-Format
K--DI---06251	yellow	Continuous	Norwegian SOSI-Format
K--DI---06304	cyan	Continuous	Norwegian SOSI-Format
K--DI---06311	cyan	Continuous	Norwegian SOSI-Format
K--DI---06315	cyan	Continuous	Norwegian SOSI-Format
K--DI---06320	cyan	Continuous	Norwegian SOSI-Format
K--DI---07000	white	Continuous	Norwegian SOSI-Format
K--DI---07002	white	Continuous	Norwegian SOSI-Format
K--DI---07003	yellow	Continuous	Norwegian SOSI-Format
K--DI---07005	yellow	Continuous	Norwegian SOSI-Format
K--DI---07007	yellow	Continuous	Norwegian SOSI-Format
K--DI---07009	yellow	Continuous	Norwegian SOSI-Format
K--DI---07013	yellow	Continuous	Norwegian SOSI-Format
K--DI---07021	cyan	Continuous	Norwegian SOSI-Format
K--DI---07022	white	Continuous	Norwegian SOSI-Format
K--DI---07099	white	Continuous	Norwegian SOSI-Format
K--DI---07414	white	Continuous	Norwegian SOSI-Format
K--DI---07450	red	Continuous	Norwegian SOSI-Format

K--DI---07521		yellow	Continuous	Norwegian SOSI-Format
K--DI---07522		cyan	Continuous	Norwegian SOSI-Format
K--DI---07534		cyan	Continuous	Norwegian SOSI-Format
K--DI---07998		white	Continuous	Norwegian SOSI-Format
K--DI---08009		white	Continuous	Norwegian SOSI-Format
K--DI---08010		cyan	Continuous	Norwegian SOSI-Format
K--DI---08011		white	Continuous	Norwegian SOSI-Format
K--DI---08201		cyan	Continuous	Norwegian SOSI-Format
K--DI---08202		white	Continuous	Norwegian SOSI-Format
K--DI---08203		white	Continuous	Norwegian SOSI-Format
K--DI---08204		white	Continuous	Norwegian SOSI-Format
K--DI---08250		cyan	Continuous	Norwegian SOSI-Format
K--DI---08290		white	Continuous	Norwegian SOSI-Format
K--DI---08501		cyan	Continuous	Norwegian SOSI-Format
K--DI---08511		cyan	Continuous	Norwegian SOSI-Format
KORRIDOR	Roadways: corridor	white	Continuous	Corridor Style
KORRIDOR-FEATURE-LINE-HOYDE		yellow	Continuous	Corridor Style
KORRIDOR-GRENSE	Roadways: corridor boundary	yellow	CENTER2	Corridor Style
KORRIDOR-MOD		white	Continuous	Corridor Style
KORRIDOR-NORMSEKT		red	Continuous	Assembly style
KORRIDOR-PEL-MITTLIN		white	Continuous	Corridor Style
KORRIDOR-PEL-PROFIL		yellow	Continuous	Corridor Labels
KORRIDOR-PEL-TERRENG		white	Continuous	Corridor Labels
KORRIDOR-RASTER	Roadways: corridor patterns	8	Continuous	Corridor Style Scale bar in Layouts/Målestokk i layout
Målestokk		white	Continuous	
NORMALPROFIL	Roadways: assemblies and subassemblies	cyan	Continuous	Subassemblies
NORMALPROFIL-BLIN	Roadways: assembly baseline	blue	Continuous	Subassemblies
NORMALPROFIL-OFFSET	Roadways: assembly offset	white	Continuous	Subassemblies
NORMALPROFIL-SIRKEL		cyan	Continuous	Subassemblies
NOT-KOBLING	C-ANNO-MTCH	white	DASHED	
NOT-KOBLING-RASTER	C-ANNO-MTCH-HATCH	white	Continuous	Match Line Styles/
NOT-KOBLING-TEKST	C-ANNO-MTCH-TEXT	blue	Continuous	Match Line Styles/
NOT-TABELL	Civil: Table	blue	Continuous	General tables
NOT-TABELL-RAMME	Civil: Table Borders	blue	Continuous	General tables-Frame
NOT-TABELL-RASTER	Civil: Table Hatch	white	Continuous	General tables- Hatch
NOT-TABELL-TEKST	Civil: Table Text	yellow	Continuous	General tables-Text

NOT-TABELL-TITTEL	Civil: Table Title	yellow	Continuous	General tables-Title
NOT-TEGNINGSRAMME	C-ANNO-VFRM	red	Continuous	View Frames
NOT-TEGNINGSRAMME-TEKST	C-ANNO-VFRM-TEXT	yellow	Continuous	View Frames Labels
NOTERING		white	Continuous	General Labels
Ohp		red	Continuous	
PROFIL-ASMK	Roadways: profile assymetrical curves	white	Continuous	Profile styles
PROFIL-BAND-RAMME	Roadways: profile border	blue	Continuous	Profile Band styles
PROFIL-BAND-TEKST	Roadways: profile grid	yellow	Continuous	Profile Band styles
PROFIL-BAND-TICK	Roadways: profile tick marks	blue	Continuous	Profile Band styles
PROFIL-BAND-TITTEL-RAMME	Roadways: profile label	blue	Continuous	Profile Band styles
PROFIL-BAND-TITTEL-TEKST	Roadways: profile grid	blue	Continuous	Profile Band styles
PROFIL-DIAG-TVERRFALL-H	Roadways: profile right offset sample line	white	Continuous	Profile Band styles
PROFIL-DIAG-TVERRFALL-M	Roadways: profile right offset sample line	yellow	DASHEDX2	Profile Band styles
PROFIL-DIAG-TVERRFALL-V	Roadways: profile left offset sample line	white	DASHED	Profile Band styles
PROFIL-DIAGRAMMER	Roadways: profile band diagrams	white	Continuous	Profile Band styles
PROFIL-DIAGRAMMER-SKJULT	Roadways: profile band diagrams	white	Continuous	Profile Band styles
PROFIL-FJELL	Roadways: profiles	white	Fjell	Profile styles
PROFIL-GEOM	Roadways: profile geometry point labels	blue	Continuous	Profile Band styles
PROFIL-HSIDE	Roadways: profile right offset sample line	8	CENTER2	Profile styles
PROFIL-KURVER	Roadways: profile vertical curves	white	Continuous	Profile styles
PROFIL-LENGDEM-HOVED	Roadways: profile major station labels	blue	Continuous	Profile Band styles
PROFIL-LENGDEM-STOTTE	Roadways: profile minor station labels	blue	Continuous	Profile Band styles
PROFIL-LINJE	Roadways: profile vertical lines	red	Continuous	Profile styles
PROFIL-NY	Roadways: profile new	red	Continuous	Profile styles
PROFIL-PARB	Roadways: profile parabolic curves	white	Continuous	Profile styles
PROFIL-PNKT	Roadways: profile geometry points	white	HIDDEN	Profile styles
PROFIL-PROJISERT		yellow	Continuous	Projection styles
PROFIL-RAMME	Roadways: profile border	blue	Continuous	Profile Views
PROFIL-RUTENETT-GEOM	Roadways: profile gridline @ geometry points	blue	Continuous	Profile Views
PROFIL-RUTENETT-HOVED	Roadways: profile gridline @ major stations	blue	Continuous	Profile Views
PROFIL-RUTENETT-STOTTE	Roadways: profile gridline @ minor stations	cyan	Continuous	Profile Views
PROFIL-SENTERLINJE				
FORLENGELSE	Roadways: centerline extention	blue	HIDDEN	Profile styles
PROFIL-TEJNING	Roadways: profile band diagrams	blue	Continuous	Profile Views
PROFIL-TEKST	Roadways: profile text	white	Continuous	Profile labels
PROFIL-TERRENG	Roadways: profiles	white	Continuous	Profile styles
PROFIL-TERRENG-NY		blue	Continuous	Profile styles
PROFIL-VSIDE	Roadways: profile left offset sample line	12	DASHED	Profile styles
PUNKT	Survey Node	white	Continuous	Points
PUNKT-2D		white	Continuous	Point Styles Plan
PUNKT-3D		white	Continuous	Point Styles Model
PUNKT-TEKST	Survey Node: text	yellow	Continuous	Point Labels
R--RL---01259 - Målelinje		white	Continuous	Norwegian SOSI-Format
R--RT---01280 - RbPåskrift		white	Continuous	Norwegian SOSI-

				Format
STRENG		white	Continuous	Norwegian SOSI-Format
Tegnforklaring		white	Continuous	Norwegian SOSI-Format
TERRENG-3D	Triangulated irregular network: triangle view	green	Continuous	Surface styles Model
TERRENG-AVRENNING	Topography: watershed	cyan	Continuous	Surface styles
TERRENG-AVRENNING-TEKST	Topography: watershed text	yellow	Continuous	Surface styles
TERRENG-FEATURELINE	Topography: feature line	white	Continuous	FEATURELINE styles
TERRENG-FYLLING	Topography: grading fill material	yellow	Continuous	Grading styles
TERRENG-GRENSE	Triangulated irregular network: boundary	yellow	Continuous	Surface styles – Border
TERRENG-KOTE-HOVED	Topography: major contours	9	Continuous	Surface styles – Bef kotelinjer
TERRENG-KOTE-HOVED-NY	Topography: major contours, NEW	white	Continuous	Surface styles – Nya kotelinjer
TERRENG-KOTE-STOTTE	Topography: minor contours	8	Continuous	Surface styles – Bef kotelinjer
TERRENG-KOTE-STOTTE-NY	Topography: minor contours, NEW	cyan	Continuous	Surface styles – Nya kotelinjer
TERRENG-KOTE-TEKST	Topography: contour labels	8	Continuous	Contour labels
TERRENG-KOTE-TEKST-LIN		9	Continuous	Contour label Line
TERRENG-KOTE-TEKST-NY	Topography: contours labels, NEW	cyan	Continuous	Contour labels
TERRENG-RUTENETT		252	Continuous	Surface styles Grid
TERRENG-SKJAERING	Topography: grading cut material	yellow	Continuous	Grading styles
TERRENG-SKRAANING	Topography: grading	yellow	Continuous	Grading styles
TERRENG-SKRAANING-TEKST		yellow	Continuous	Grading styles
TERRENG-TEKST	Topography: text	yellow	Continuous	Contour labels
TERRENG-TIN	Triangulated irregular network	yellow	Continuous	Surface styles TIN
TERRENG-VANNDROP		blue	Continuous	Waterdrop
Title Block		white	Continuous	
TOMT-GRENSE	Property: boundary	white	Continuous	Parcel Styles
TOMT-KURVE-TEKST	Property: radii and distance for curve segment lables	yellow	Continuous	Parcel Segment Labels
TOMT-MERKELAPP	Property: label	white	Continuous	Parcel Labels
TOMT-RASTER	Property: parcel hatching	white	Continuous	Parcel Styles
TOMT-RETNING	Property: bearing	white	Continuous	Parcel Segment Labels
TOMT-TEKST		yellow	Continuous	Parcel Labels
TOMT-VEGOMRAADE	Easements: roadway	white	Continuous	Parcel Labels
TVERRSNITT-DIAGRAM	Roadways: section diagram	blue	Continuous	Section styles
TVERRSNITT-FJELL	Roadways: profiles	white	Fjell	Section styles
TVERRSNITT-GRENSE	Roadways: section border	yellow	Continuous	Section styles
TVERRSNITT-KORRIDOR		white	Continuous	Section styles
TVERRSNITT-MARKERING	Roadways: sample lines	yellow	HIDDEN	Sample Lines
TVERRSNITT-MARKERING-TEKST	Roadways: sample lines text	yellow	Continuous	Sample Lines
TVERRSNITT-MERKELAPP	Roadways: section labels	yellow	Continuous	Sample Lines
TVERRSNITT-NY	Roadways: section, NEW	red	Continuous	Section styles
TVERRSNITT-PROJISERT		yellow	HIDDEN	Projection styles
TVERRSNITT-RUTENETT	Roadways: section grid	blue	Continuous	Section styles
TVERRSNITT-TEKST	Roadways: section text	yellow	Continuous	Section styles

TVERRSNITT-TERRENG	Roadways: profiles	white	Continuous	Section styles
TVERRSNITT-TICK	Roadways: section tick marks	blue	Continuous	Section styles
TVERRSNITT-TITTEL	Roadways: section title	yellow	Continuous	Section styles
VA-KOLLISJON		magenta	Continuous	Interference style
VA-KUM-ALLE		white	Continuous	Structures – Main object / Huvudlag for alle kummer
VA-LEDNING		white	Continuous	Pipes – Main object / Huvudlag for alle ledninger
VA-OV-KUM	Storm Sewer: structures	white	Continuous	Structures style - Overvann
VA-OV-KUM-PROFIL		white	Continuous	Structures style - Overvann
VA-OV-KUM-RASTER	Storm Sewer: structures, hatching	white	Continuous	Structures style - Overvann
VA-OV-LEDNING	Storm Sewer: piping	158	Overvann	Pipe style - Overvann
VA-OV-LEDNING-PEL		158	Overvann	Pipe style - Overvann
VA-OV-LEDNING-PELTEKST	Storm Sewer: text	158	Continuous	Pipe labels
VA-OV-LEDNING-PROFIL	Storm Sewer: profile	158	Overvann	Pipe style - Overvann
VA-OV-LEDNING-PROFILTEKST		158	Continuous	Pipe labels
VA-OV-LEDNING-RASTER	Storm Sewer: piping, hatching	158	Continuous	Pipe style - Overvann
VA-OV-SENTERLINJE	Storm Sewer: centerline	158	Overvann	Pipe style - Overvann
VA-OV-TVERRSNITT		158	Continuous	Pipe style - Overvann
VA-PROFIL		white	Continuous	
VA-SP-KUM	Sanitary Sewer: structures	white	Continuous	Structures style - Spillvann
VA-SP-KUM-PROFIL	Sanitary Sewer: structure, profile	white	Continuous	Structures style - Spillvann
VA-SP-KUM-RASTER	Sanitary Sewer: structures, hatching	white	Continuous	Structures style - Spillvann
VA-SP-LEDNING	Sanitary Sewer: piping	90	Spillvann	Pipe style - Spillvann
VA-SP-LEDNING-PEL		90	Spillvann	Pipe style - Spillvann
VA-SP-LEDNING-PEL-TEKST	Sanitary Sewer: text	90	Continuous	Pipe labels
VA-SP-LEDNING-PROFIL	Sanitary Sewer: profile	90	Continuous	Pipe style - Spillvann
VA-SP-LEDNING-PROFIL-TEKST		90	Continuous	Pipe labels
VA-SP-LEDNING-RASTER	Sanitary Sewer: piping, hatching	90	Continuous	Pipe style - Spillvann
VA-SP-SENTERLINJE	Sanitary Sewer: centerline	90	Spillvann	Pipe style - Spillvann
VA-SP-TVERRSNITT		90	Continuous	Pipe style - Spillvann
VA-TABELL		green	Continuous	
VA-TEKST		yellow	Continuous	
VA-TVERRSNITT		white	Continuous	
VA-VANN-LEDNING		150	Continuous	Pipe style - Vann
VA-VANN-LEDNING-PEL		150	Continuous	Pipe style - Vann
VA-VANN-LEDNING-PROFIL		150	Continuous	Pipe style - Vann
VA-VANN-LEDNING-PROFIL-TEKST		150	Continuous	Pipe labels
VA-VANN-LEDNING-RASTER		150	Continuous	Pipe style - Vann
VA-VANN-LENDING-PEL-TEKST		150	Continuous	Pipe style - Vann
VA-VANN-SENTERLINJE		150	Continuous	Pipe style - Vann

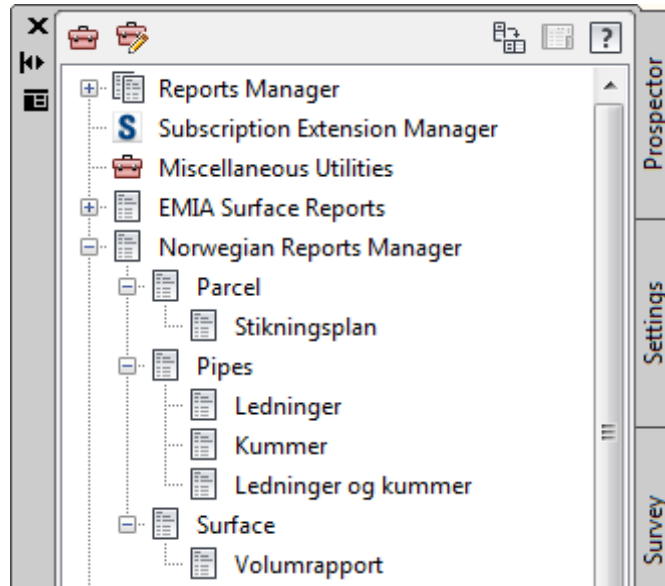
VA-VEG-LINJE		cyan	BH90_VAGMITT_PROJ	
VA-VEG-PROFIL		cyan	BH90_VAGMITT_PROJ	
VEG	Roadways	yellow	Continuous	Alignments main object - Huvudlag för Veglinje
VEG-ALMEN-NY		yellow	Continuous	Alignment Styles
VEG-FORM	Roadways: corridor and section shapes Roadways: corridor and section shapes	yellow	Continuous	Alignment Styles
VEG-FORM-RASTER	hatching	yellow	Continuous	Alignment Styles
VEG-KLOTOID	Roadways: spirals	blue	BH90_VAGMITT_PROJ	Alignment Styles
VEG-KRYSS		yellow	Continuous	Intersection Style
VEG-KRYSS-TEKST		yellow	Continuous	Intersection Labels
VEG-KURVE	Roadways: curves	green	BH90_VAGMITT_PROJ	Alignment Styles
VEG-LENGDEM-HOVED	Roadways: major stationing labels	white	Continuous	Alignment Styles
VEG-LENGDEM-STOTTE	Roadways: minor stationing labels	yellow	Continuous	Alignment Styles
VEG-LENGE	Roadways: stationing	blue	Continuous	Alignment Styles
VEG-LINJE	Roadways: tangent lines	yellow	BH90_VAGMITT_PROJ	Alignment Styles
VEG-LINJE-EXTN	Roadways: PVI extention lines	white	HIDDEN	Alignment Styles
VEG-LINK	Roadways: corridor and section links	yellow	Continuous	Alignment Styles
VEG-LINK-2D	Roadways: corridor and section links	yellow	Continuous	Alignment Styles
VEG-LINK-3D	Roadways: corridor and section links	red	Continuous	Alignment Styles
VEG-MARK	Roadways: corridor and section marks	white	Continuous	Alignment Styles
VEG-OFFSET		12	Continuous	Alignment Styles
VEG-RETNING	Roadways: bearings	yellow	Continuous	Alignment Styles
VEG-SENTERLINJE-NY	Roadways: centerline, NEW	yellow	BH90_VAGMITT_PROJ	Alignment Styles
VEG-SHAPE-2D	Roadways: corridor and section shapes	yellow	Continuous	Alignment Styles
VEG-SHAPE-3D	Roadways: corridor and section shapes Roadways: corridor and section shapes	8	Continuous	Alignment Styles
VEG-SHAPE-RASTER	hatching	31	Continuous	Alignment Styles
VEG-TABELL		blue	Continuous	Alignment Table Styles
VEG-TEKST	Roadways: text	white	Continuous	Alignment Label Styles
VIEW FRAME		cyan	Continuous	View frames
View ports		130	Continuous	
VIEWFRAME LABEL		white	Continuous	View frames labels
VIEWPORT		white	Continuous	
VOLUM-LINJE		white	Continuous	Mass Haul Line
VOLUM-RAMME		blue	Continuous	Mass Haul View Style
VOLUM-RASTER		white	Continuous	Mass Haul View Style
VOLUM-RUTENETT		blue	Continuous	Mass Haul View Style
VOLUM-RUTENETT-GEOM		blue	Continuous	Mass Haul View Style
VOLUM-RUTENETT-HOVED		blue	Continuous	Mass Haul View Style
VOLUM-RUTENETT-STOTTE		blue	Continuous	Mass Haul View Style
VOLUM-TEKST		yellow	Continuous	Mass Haul View Style
VOLUM-TITTEL		yellow	Continuous	Mass Haul View Style
VOLUM-VISNING		blue	Continuous	Mass Haul Line

Layer Name	Description	Color	Linetype	Style(s) using this layer (this column is not optional here (see section 6))
-------------------	--------------------	--------------	-----------------	---

--	--	--	--	--

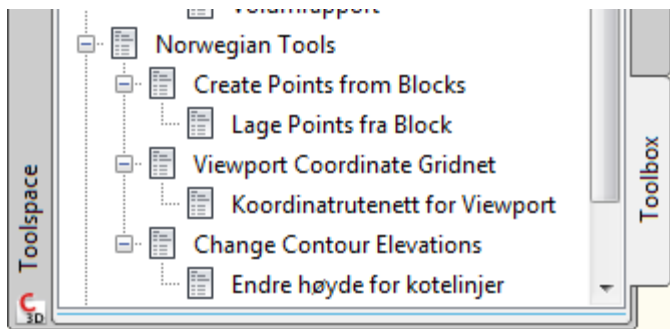
5 Reports

Alla norska rapporter är placerade under foldern **Norwegian Reports Manager** under fliken Toolbox i Toolspace.



<i>Report Name</i>	<i>Description</i>	<i>Sample File Name</i>	<i>Priority</i>
Parcel > Stikningsplan	Visar Stikningsplan för Parcels (Tomt) Translation of standard report Parcel > Inverse Report		
Pipes > Ledningar	Rapport för Ledningar Translation of standard report Pipes > Structures		
Pipes > Kummer	Rapport för Kummer Translation of standard report Pipes > Pipes		
Pipes > Ledningar og Kummer	Rapport för Ledningar och Kummer Translation of standard report Pipes > Pipes adn Structures		
Surface > Volumrapport	Rapport som redovisar schakt- och fyllvolym för en TIN Volume Surface (Differensmodell)		

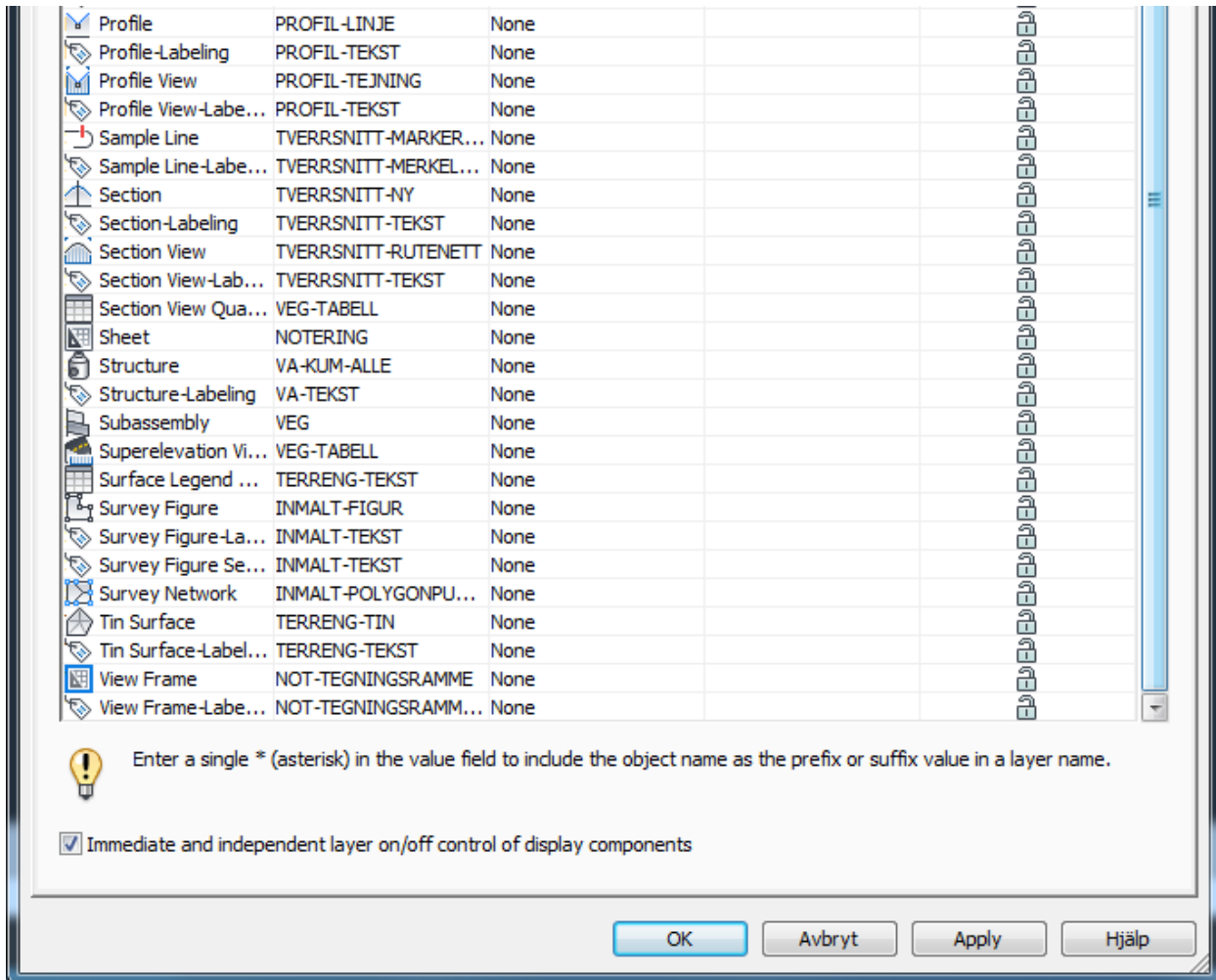
Toolbox – Nya verktyg/New tools



- *Create Points from Blocks:*
 - Funktionen skapar Civil 3D Points för utvalda AutoCAD block.
 - Creates Civil 3D Points from selected AutoCAD block
- *Viewport Coordinate Gridnet:*
 - Funktionen skapar ett koordinatrutnät för en Viewport i en Layout.
 - Creates a coordinate gridnet for a layout viewport
- *Change Contour Elevations*
 - Funktion för att ändra/sätta höjd på kotelinjer (Polylines)
 - Routine to change elevation on contours/polylines.

6 Drawing Settings > Object Layers

Object	Layer	Modifier	Value	Locked
Alignment	VEG	None		
Alignment-Labeling	VEG-TEKST	None		
Alignment Table	VEG-TABELL	None		
Appurtenance	VA-TILBEHOR	None		
Appurtenance-La...	VA-TEKST	None		
Assembly	NORMALPROFIL	None		
Building Site	BYGGNING	None		
Cant View	JB-OVERHOYDE-VISNI...	None		
Catchment	TERRENG-AVRENNING	None		
Catchment-Labeling	TERRENG-AVRENNIN...	None		
Corridor	KORRIDOR	None		
Corridor Section	TVERRSNITT-KORRIDOR	None		
Feature Line	TERRENG-FEATURELINE	None		
Fitting	VA-BEND	None		
Fitting-Labeling	VA-TEKST	None		
General Note Label	NOTERING	None		
General Segment...	NOTERING	None		
Grading	TERRENG-SKRAANING	None		
Grading-Labeling	TERRENG-SKRAANIN...	None		
Grid Surface	TERRENG-RUTENETT	None		
Grid Surface-Lab...	TERRENG-TEKST	None		
Interference	VA-KOLLISJON	None		
Intersection	VEG-KRYSS	None		
Intersection-Lab...	VEG-KRYSS-TEKST	None		
Mass Haul Line	VOLUM-LINJE	None		
Mass Haul View	VOLUM-VY	None		
Match Line	NOT-KOBLING	None		
Match Line-Labeling	NOT-KOBLING-TEKST	None		
Material Section	VEG-SHAPE-3D	None		
Material Table	VEG-TABELL	None		
Parcel	TOMT-GRENSE	None		
Parcel-Labeling	TOMT-MERKELAPP	None		
Parcel Segment	TOMT-GRENSE	None		
Parcel Segment-L...	TOMT-MERKELAPP	None		
Parcel Table	TOMT-MERKELAPP	None		
Pipe	VA-LEDNING	None		
Pipe-Labeling	VA-TEKST	None		
Pipe and Structur...	VA-TABELL	None		
Pipe Network Sec...	VA-TVERRSNITT	None		
Pipe or Structure...	VA-PROFIL	None		
Point Table	PUNKT-TEKST	None		
Pressure Networ...	VA-LEDNING	None		
Pressure Part Pr...	VA-PROFIL	None		
Pressure Part Table	VA-TABELL	None		
Pressure Pipe	VA-LEDNING	None		
Pressure Pipe-La...	VA-TEKST	None		



6.1 Object Layers

The following table lists all **new** object types added to the object layers tab in Tuckerman and their content for “out of the box” templates.

Object	Layer	Modifier	Value
Building Site	BYGGNING		
Intersection	VEG-KRYSS		
<i>Intersection-Labeling</i>	VEG-KRYSS -TEKST		
Grading-Labeling	TERRENG-SKRAANING-TEKST		
Parcel-Labeling	TOMT-MERKELAPP		
Parcel Segment-Labeling	TOMT- MERKELAPP		

The following table lists **existing** object types on the object layers tab that should have their content for “out of the box” templates updated for Tuckerman.

Object	Layer	Modifier	Value

6.2 Ambient Settings

The following are the new drawing level ambient settings introduced in Tuckerman.

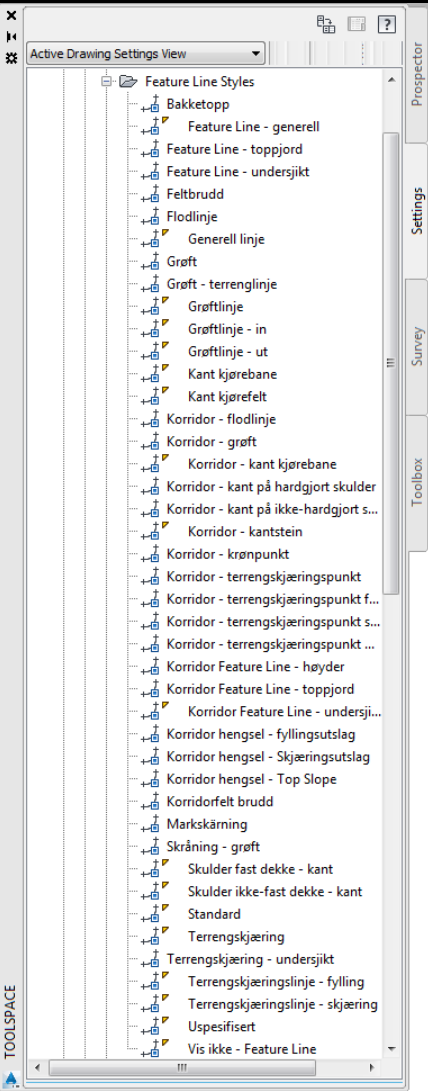
Node	Setting	Default
General	Driving Direction	Right Side of the Road

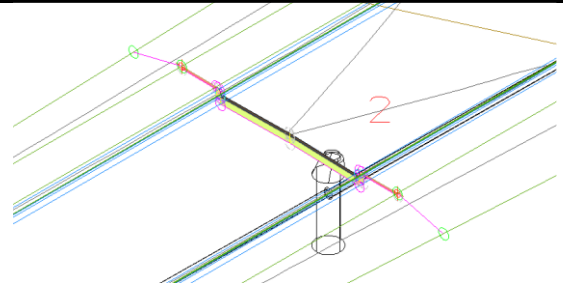
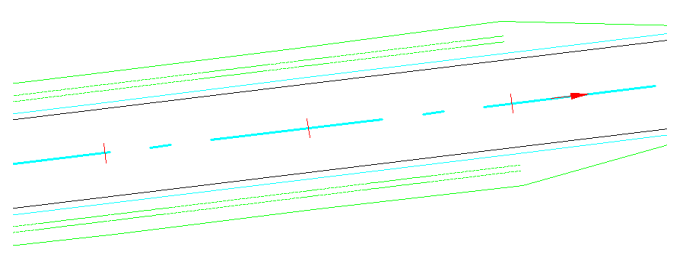
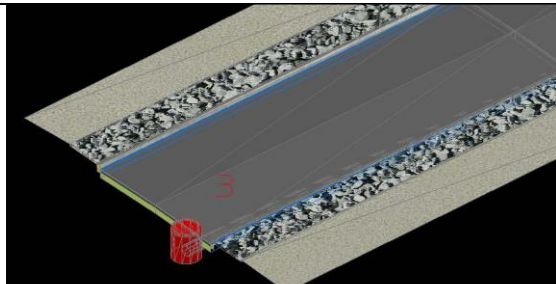
7 Object Styles

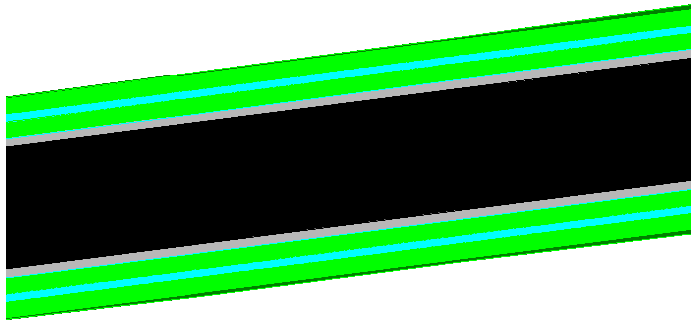
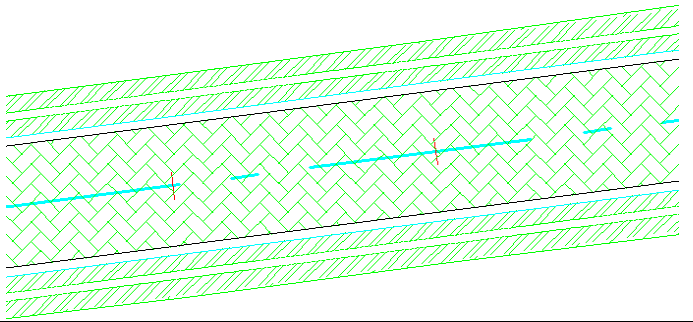
List all object styles you include in the country kit template(s) you are providing. You should provide a screen grab (in local language) (and optionally a drawing file) along with description and usage of the style in both English and your local language. You must also indicate the name of the template file(s) that the style is saved in.

7.1 Multi-purpose Styles

<_AutoCAD Civil 3D 2015 NOR.dwt>

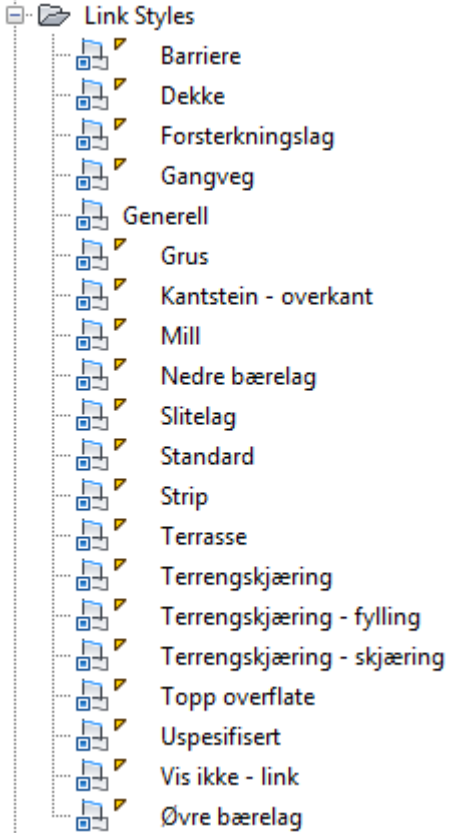
Feature Line Styles	Description	Screen grab / DWF / DWG	Default
			

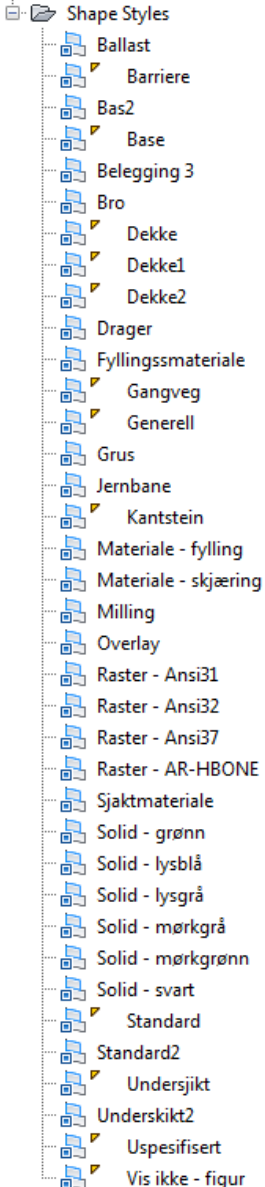
Code Set Styles	Description	Screen grab / DWF / DWG	Default
Alle koder	Standard för Normalprofil		
Alle koder - QTO	<p>Samma som ovan men med inställningar för mängdningsfunktionen QTO.</p> <p>Same as above but with settings for QTO</p>		
Plan (Wireframe i 3D)	<p>Visar endast längsgående linjer i korridoren, inga tvärgående. I 3D visas en trådmodell.</p> <p>2D: Displays only alongside lines, no crossing. 3D: 3D a wireframe is displayed</p>		
Plan (Render i 3D)	<p>I plan visas endast längsgående linjer i korridoren, inga tvärgående. I 3D visas en renderad modell.</p> <p>2D: Displays only alongside lines, no crossing. 3D: Rendered surface is displayed</p>		Ja Yes

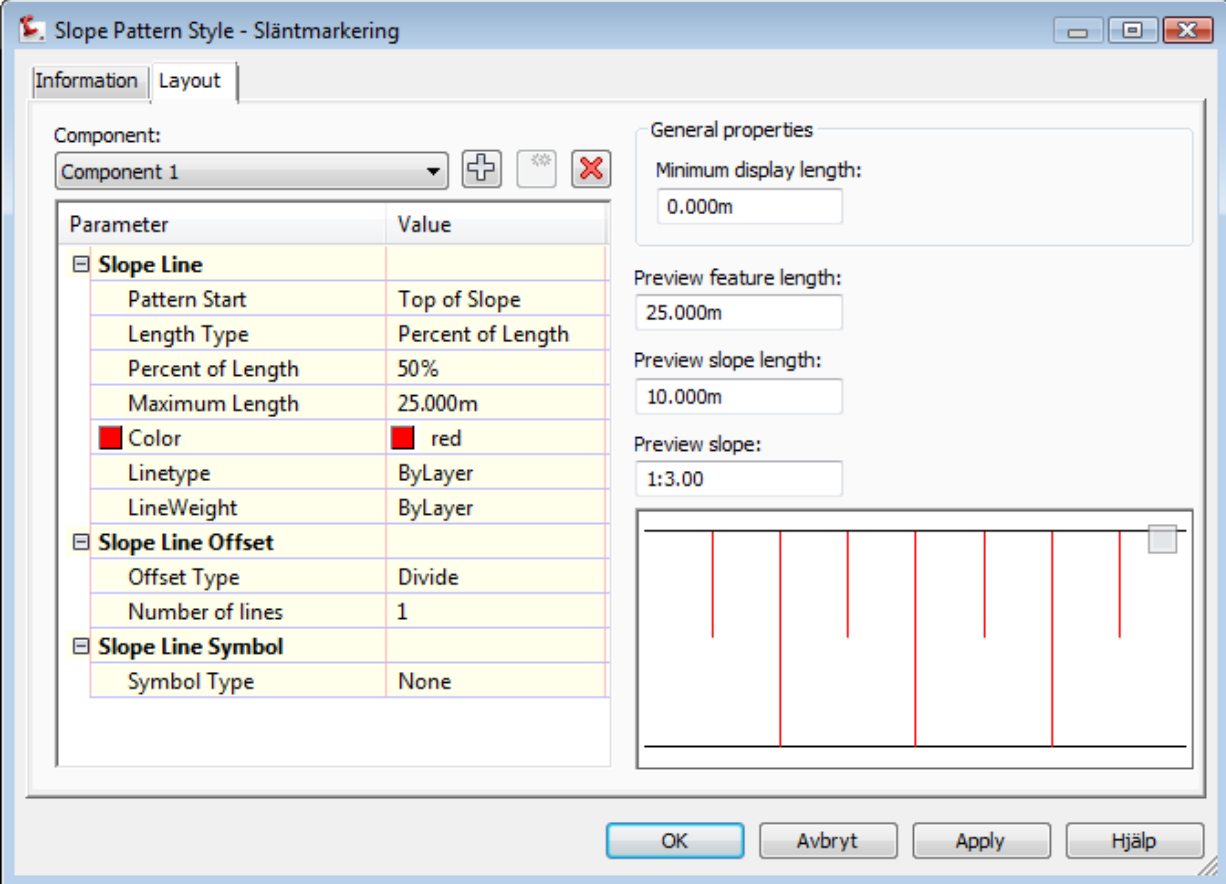
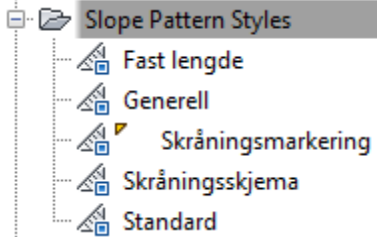
<p>Solid farge i 2D - Render i 3D</p>	<p>I plan ifyllda solider i korridoren. I 3D visas en renderad modell.</p> <p>2D: Displays solids in the corridor. 3D: Rendered surface is displayed</p>		
<p>Raster i 2D - Render i 3D</p>	<p>I plan ifyllda solider i korridoren. I 3D visas en renderad modell.</p> <p>2D: Displays solids in the corridor. 3D: Rendered surface is displayed</p>		
<p>Tverrprofil</p>	<p>Används som grundinställning när man skapar Tverrprofiler. Used as default setting when creating section views.</p>	<p>Se Section View Styles See Section View Styles</p>	
<p>Vis ikke</p>	<p>Vis ikke No display</p>	<p>Se Section View Styles See Section View Styles</p>	

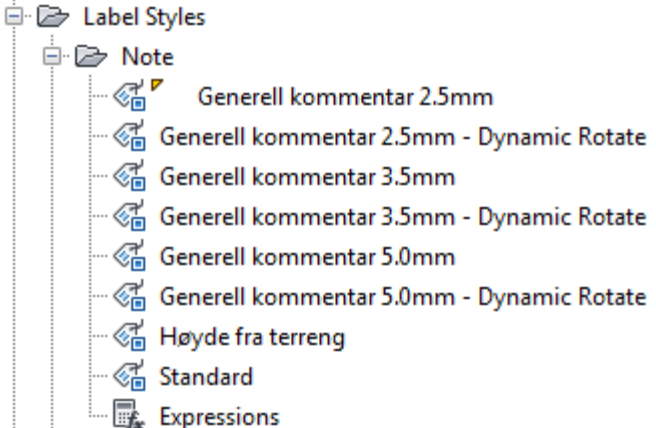
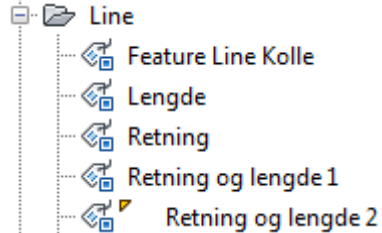
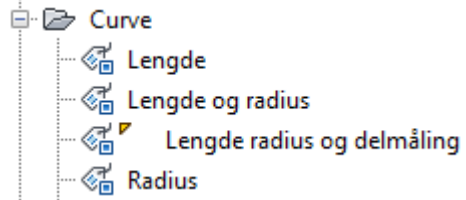
Marker Styles	Description	Screen grab / DWF / DWG	Default
---------------	-------------	-------------------------	---------









		<p>Marker Styles</p> <ul style="list-style-type: none">Beregnet linje - GeometriFelt bruddFlensGangvegGenerellGenerell - ruteGenerell - sirkel med kryssGenerell - uspesifisertGrøft - bunnGrøft - ytterkanterHengselKant - fast dekkeKant - ikke fast dekkeKant - kjørebaneKantsteinLedning - kollisjonspunktMarkeringMarkert punktMåledata - innmålt punktMåledata - kjent punktMåledata - ukjent punktMålepunktPI punktPlusstegnmarkeringRennesteinSenterlinje - bakketoppSkråningsutslag - fyllingSkråningsutslag - skjæringStandardTerrenkskjæringTerrenkskjæring - underskjiktUndersjiktVis ikke - punkt	
--	--	--	--

Link Styles	Description	Screen grab / DWF / DWG	Default
			

Shape Styles	Description	Screen grab / DWF / DWG	Default
		 <ul style="list-style-type: none"> Shape Styles <ul style="list-style-type: none"> Ballast Barriere Bas2 Base Belegging 3 Bro Dekke Dekke1 Dekke2 Drager Fyllingsmateriale Gangveg Generell Grus Jernbane Kantstein Materiale - fylling Materiale - skjæring Milling Overlay Raster - Ansi31 Raster - Ansi32 Raster - Ansi37 Raster - AR-HBONE Sjaktmateriale Solid - grønn Solid - lysblå Solid - lysgrå Solid - mørkgrå Solid - mørkgrønn Solid - svart Standard Standard2 Undersjikt Undersjikt2 Uspesifisert Vis ikke - figur 	

Slope Pattern Style	Description	Screen grab / DWF / DWG	Default
Skråningsmarkering			Ja Yes
			

Multipurpose Label Styles	Description	Screen grab / DWF / DWG	Default
Note			
Line			
Curve			
Marker			

		 <ul style="list-style-type: none"> Marker <ul style="list-style-type: none">  Senterlinjemarkør  Sideforskyvning og høyde 	
Link			
		 <ul style="list-style-type: none"> Link <ul style="list-style-type: none">  Skråning 1:x  Skråning i prosent 	
Shape			
		 <ul style="list-style-type: none"> Shape <ul style="list-style-type: none">  Dekkesstruktur 	

7.2 Points

<Template file name, start a new table for each template file>

User Defined Attribute Classifications	Description	Screen grab / DWF / DWG	Default

Point Styles	Description	Screen grab / DWF / DWG	Default

Point Label Styles	Description	Screen grab / DWF / DWG	Default
Punkt- Høyde i decimalpunkt	Höjdsiffra med decimalpunkten exakt i punkten Elevation presented with decimal point in point centre		
Punkt- Høyde kode	Höjd och Kod Elevation and Raw description		
Punkt- Høyde til høyre	Höjdsiffra till höger om punkt Elevation at right of point		
Punkt- Höjd_under	Höjdsiffra under punkt Elevation under point		
Punkt- Kode	Endast Kod Raw description only		
Punkt- Navn Høyde kode	För punkter importerade via PXY (Namn X Y Z Kod) Namn måste användas istället för Nr för vissa PXY-filer då löpnummret innehåller punkt t.ex. "1.01" Name Elevation Raw description Used for points imported from Swedish PXY file format where point number is alphanumeric and therefore stored in Name.		

Punkt- Nummer	Endast nummer Number only		
Punkt- Nummer Høyde kode	Nummer Höjd Kod Number Elevation Raw description		Ja Yes

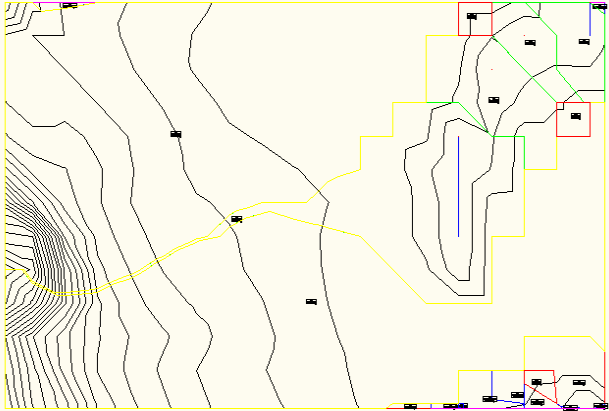

Description Key Sets	Description	Screen grab / DWF / DWG	Default

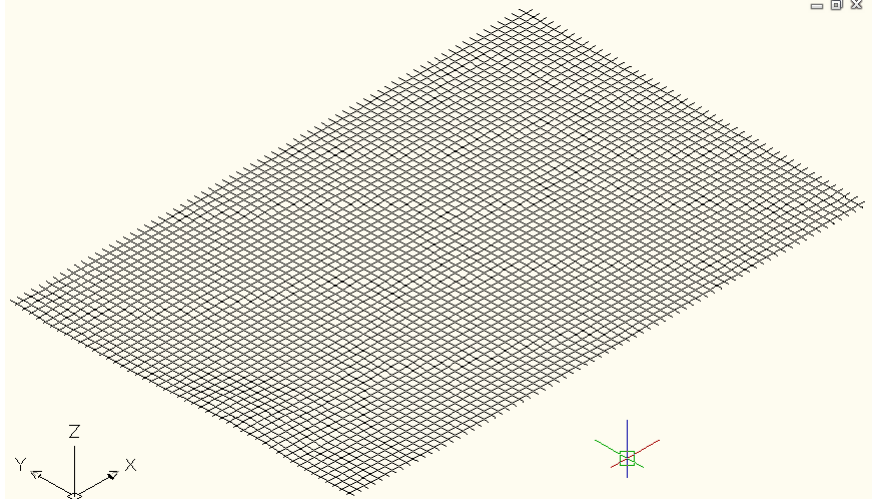
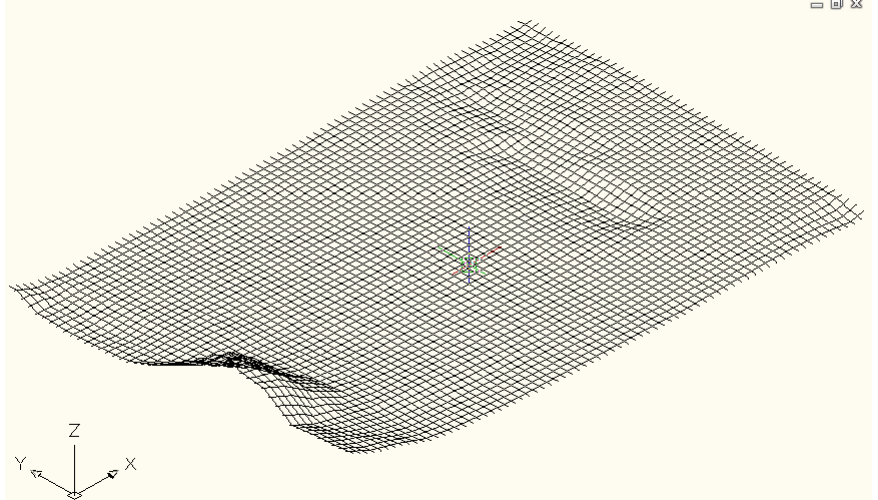
Point Table Styles	Description	Screen grab / DWF / DWG	Default																				
Koordinattabell XY	<p>Tabell med XY. Används då löpnummer ligger i kolumnen Number.</p> <p>Table with No., code and XY. Used en point number is stored in Number.</p>	<table border="1"> <tr> <td colspan="4">KOORDINATTABELL</td> </tr> <tr> <td>PUNKT</td> <td>KOD</td> <td>X</td> <td>Y</td> </tr> <tr> <td>1</td> <td></td> <td>1435.013</td> <td>1886.441</td> </tr> <tr> <td>2</td> <td></td> <td>1415.858</td> <td>1856.210</td> </tr> </table>	KOORDINATTABELL				PUNKT	KOD	X	Y	1		1435.013	1886.441	2		1415.858	1856.210	Ja Yes				
KOORDINATTABELL																							
PUNKT	KOD	X	Y																				
1		1435.013	1886.441																				
2		1415.858	1856.210																				
Koordinattabell XYZ	<p>Tabell med XYZ. Används då löpnummer ligger i kolumnen Number.</p> <p>Table with No., code and XYZ. Used en point number is stored in Number.</p>	<table border="1"> <tr> <td colspan="5">KOORDINATTABELL</td> </tr> <tr> <td>PUNKT</td> <td>KOD</td> <td>X</td> <td>Y</td> <td>Z</td> </tr> <tr> <td>1</td> <td></td> <td>1435.013</td> <td>1886.441</td> <td>316.496</td> </tr> <tr> <td>2</td> <td></td> <td>1415.858</td> <td>1856.210</td> <td>319.014</td> </tr> </table>	KOORDINATTABELL					PUNKT	KOD	X	Y	Z	1		1435.013	1886.441	316.496	2		1415.858	1856.210	319.014	
KOORDINATTABELL																							
PUNKT	KOD	X	Y	Z																			
1		1435.013	1886.441	316.496																			
2		1415.858	1856.210	319.014																			

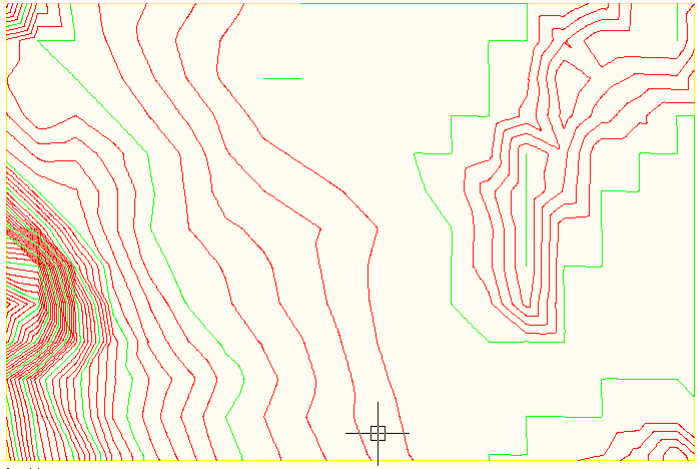
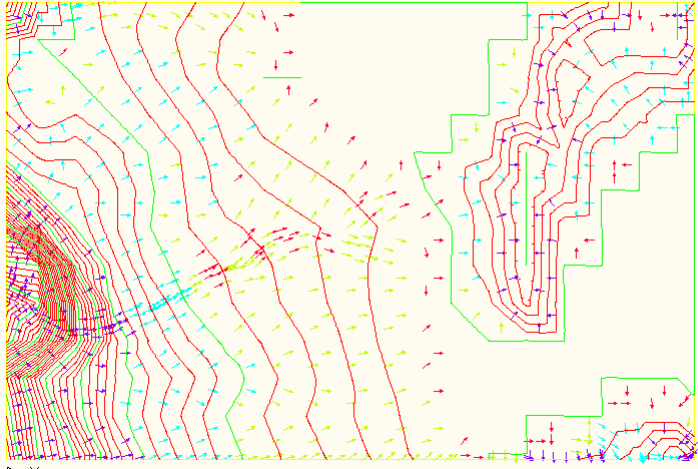
7.3 Surfaces

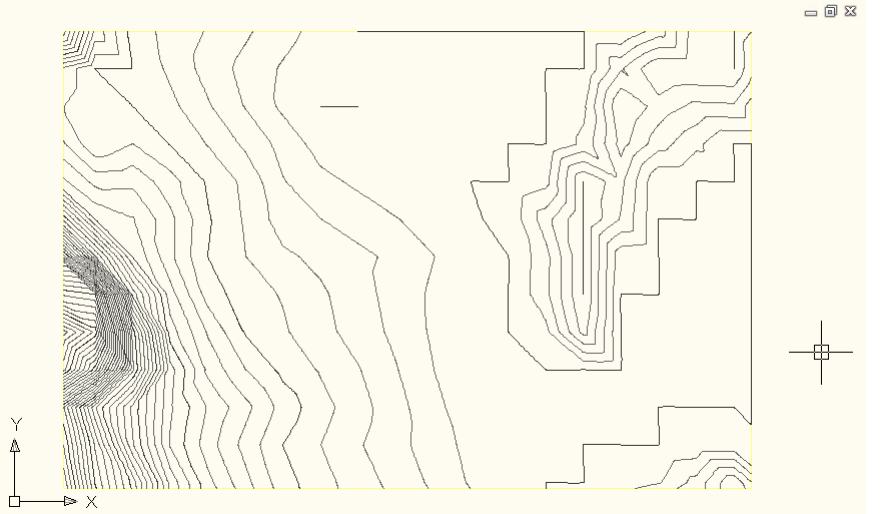
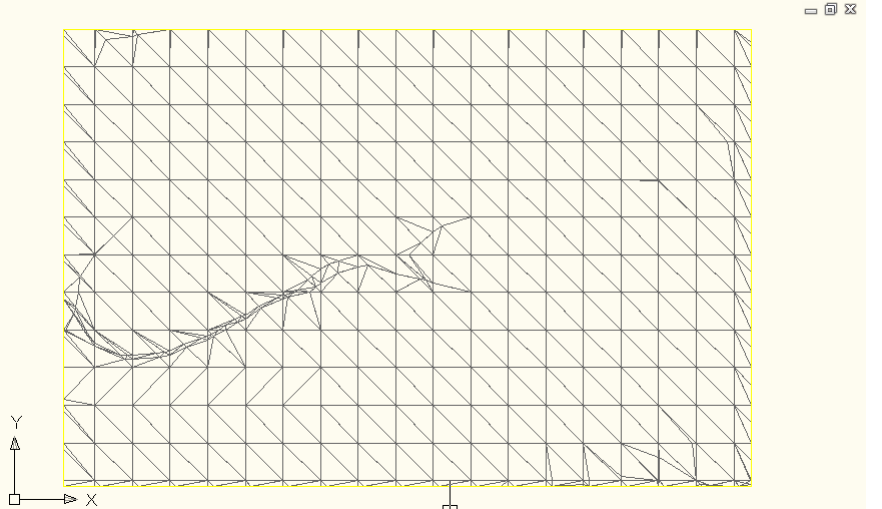
<_AutoCAD Civil 3D 2015 NOR.dwt>

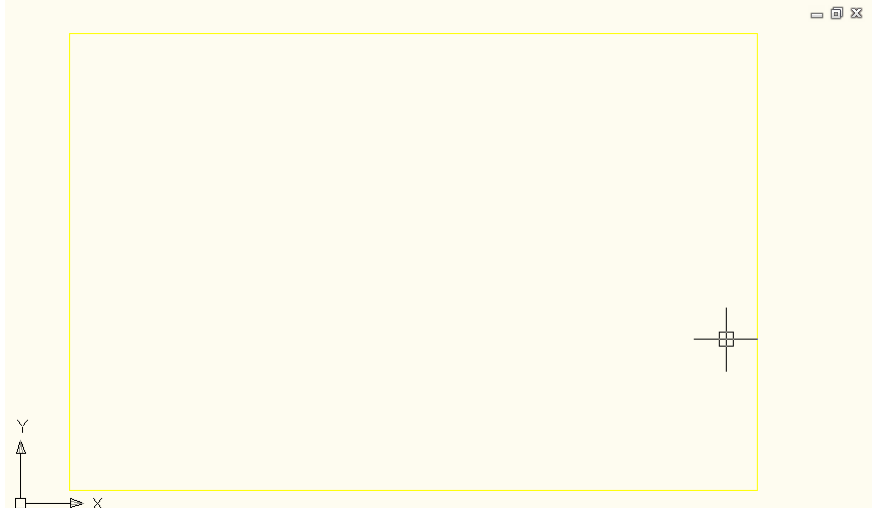
Surface Styles	Description	Screen grab / DWF / DWG	Default
----------------	-------------	-------------------------	---------

<p>Avrenningsområder</p>	<p>Visar avrinningsområden för en modell</p> <p>För att visa avrinningsområden måste man gå i i Surface Properties och i fliken Analysis, ändra Analysis type till Watersheds och därefter klicka på "pil-knappen" Run Analysis.</p> <p>Displays watersheds</p>	 A topographic map with contour lines. Overlaid on the map are several watershed boundaries. One boundary is highlighted in yellow, and another in green. There are also some red and blue lines on the map, possibly representing roads or other features.	
<p>Fargeanalyse og grenser</p>	<p>Visar 4 färger för 4 olika höj dintervaller, vilka kan justeras manuellt.</p> <p>Elevation analysis in 4 different levels</p>	 A map showing elevation analysis results. The map is divided into four distinct color-coded regions: dark green on the left, brown in the center, dark brown on the right, and black in the bottom right corner. A small white 'E' is visible in the bottom right corner of the map area.	

<p>Rutenett og grense</p>	<p>Visar rutnät med 10*10m Gridnet in 10*10m</p>	 <p>A 3D perspective view of a flat, rectangular grid. The grid consists of a dense mesh of small squares, representing a 10m by 10m grid. The grid is oriented on a horizontal plane. A 3D coordinate system is visible in the bottom left corner, with axes labeled X, Y, and Z. A small red and green crosshair is centered on the grid. In the top right corner, there are small icons for zooming and panning.</p>	
<p>Rutenett og grense - høydeoverdreve</p>	<p>Visar rutnät med 10*10m, höjdoöverdrivet 10ggr Gridnet in 10*10m, Exaggerat Elevation by 10</p>	 <p>A 3D perspective view of a grid overlaid on a wavy, undulating surface. The grid is a 10m by 10m grid, but the surface it sits on is not flat, showing a significant depression or valley. A 3D coordinate system is visible in the bottom left corner, with axes labeled X, Y, and Z. A small red and green crosshair is centered on the grid. In the top right corner, there are small icons for zooming and panning.</p>	

<p>Kotelinjer og grense</p>	<p>Nivåkurvor med 1 m intervall och gräns Contours at 1 m interval, and border</p>	 <p>The image shows a topographic map with red contour lines representing a 1 m interval. A green line outlines a specific area or border. A coordinate system with X and Y axes is visible in the bottom-left corner, and a north arrow is in the bottom-right corner.</p>	<p>Ja Yes</p>
<p>Kotelinjer skråningspiler og grenser</p>	<p>Nivåkurvor med 1 m intervall, lutningspilar och gräns Contours at 1 m interval, slope arrows and border</p>	 <p>The image shows the same topographic map as above, but with multi-colored arrows (red, yellow, cyan) overlaid on the contours to indicate slope directions. A coordinate system with X and Y axes is visible in the bottom-left corner, and a north arrow is in the bottom-right corner.</p>	

<p>Kotelinjer og bakgrunn</p>	<p>Nivåkurvor 1m med bakgrunnsfärg Contours at 1 m interval, in grey (background)</p>		
<p>Triangler punkter og grense</p>	<p>Visar punkter och trianglar. Points and Triangles</p>		

Bare grense	Visar endast yttergräns Border only		
Vis ikke - overflate	Allt avstängt All off		

Surface Label Styles Name/Type	Description	Screen grab / DWF / DWG	Default
Contour			
Bakgrunn	Används för "Nivåkurvor – Bakgrund" Used for Surface style "Nivåkurvor – Bakgrund"		
Kotelinjer	Höjd ovanför nivåkurvan Elevation above contour		Ja
Kotelinjer - maskert	Höjd maskad i nivåkurvan Elevation placed masked over contour		
Slope			
Skråningar 1:	Lutningar 1: med en decimal Slope 1:X		Ja
Skråningar prosent	Lutningar i procent med 2 decimaler Grade in percent		
Skråningar promille	Lutningar i promille med 2 decimaler Grade in promille		
Spot Elevation			
Punkthøyde	Punkthöjd i terrängmodell med 2 decimaler.		Ja

	Elevation beside Point marker		
Punkt- Høyde i decimalpunkt	Höjdsiffrå med decimalpunkten exakt i punkten. Använd ingen Marker. Elevation presented with decimal point in point centre. Use no marker.		
Watershed			
Avrinningsområde	Avrinningsområden Id Typ Area		

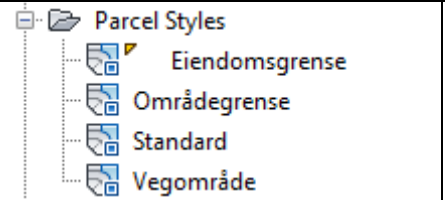
Surface Table Styles Name/Type	Description	Screen grab / DWF / DWG	Default
Direction			
Minimum & maximum - retning			
Elevation			
Minimum och maximum - höjder	Tabell med min och max höjder		
Volumtabell	Tabell med min och max höjder samt arealer och volym		
Volumtabell - Innsnevret	Tabell med min och max höjder samt arealer och volym		
Slope			
Minimum & maximum - Skråning			
Slope Arrow			
Skråningspil			
Contour			
Minimum & maximum - kotelinjer			
Watershed			
Avrenningsområder			
User Defined Contour			
Ekstra kotelinjer			

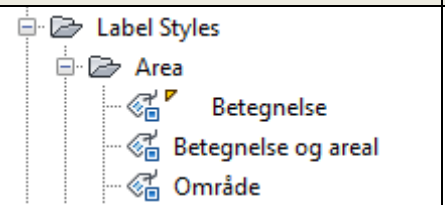
7.4 Parcels

<_AutoCAD Civil 3D 2015 NOR.dwt>

User-Defined Attributes	Description	Screen grab / DWF / DWG	Default
<None>			

Parcel Styles	Description	Screen grab / DWF / DWG	Default
---------------	-------------	-------------------------	---------

Eiendomsgrense	Fastighetsgräns Real estate property		
Områdegrense	Områdesgräns Area border		
Vegområde	Vägområde ROW		

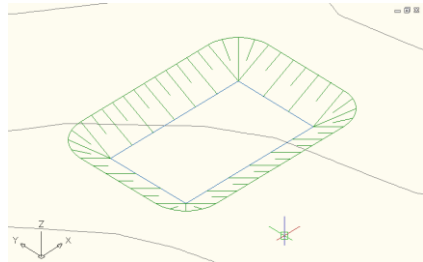
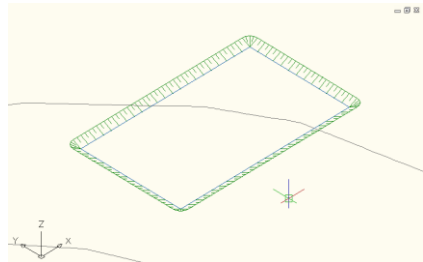
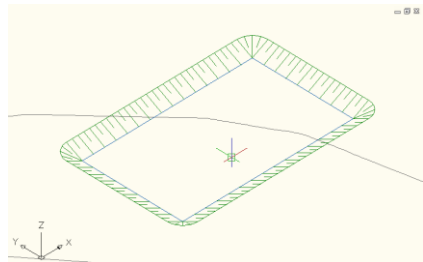
Parcel Label Styles	Description	Screen grab / DWF / DWG	Default
Area			
Betegnelse	Fastighetsbeteckning Label for real estate property		
Betegnelse og areal	Fastighetsbeteckning och area Label for real estate property and area		
Område	Område Area label		
Line			
	Only translated original styles		
Curve			
	Only translated original styles		

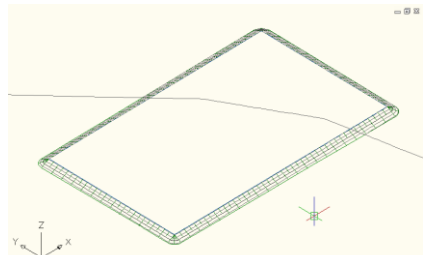
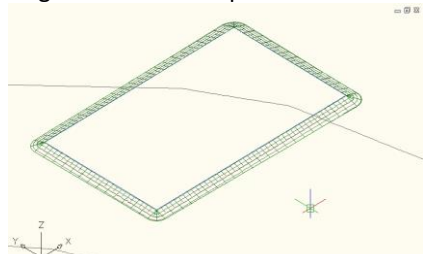
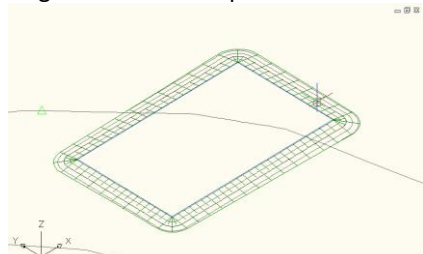
Parcel Table Styles	Description	Screen grab / DWF / DWG	Default
Line			
<None>	Only translated original styles		
Curve			
<None>	Only translated original styles		
Segment			
<None>	Only translated original styles		
Area			

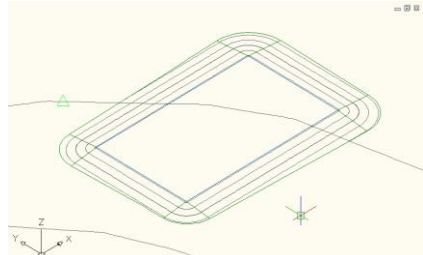
Kun areal	Fastighetsbeteckning och area Real state label and area	<table border="1"> <tr><td colspan="2">FASTIGHETER</td></tr> <tr><td>FASTIGHET</td><td>AREA</td></tr> <tr><td>Site 1:1</td><td>15672.50</td></tr> <tr><td>Site 1:2</td><td>10772.86</td></tr> </table>		FASTIGHETER		FASTIGHET	AREA	Site 1:1	15672.50	Site 1:2	10772.86									
FASTIGHETER																				
FASTIGHET	AREA																			
Site 1:1	15672.50																			
Site 1:2	10772.86																			
Eiendommer	Fastighetsbeteckning, area, omkrets och segment längder Real state label, area, circumference, segment lengths	<table border="1"> <tr><td colspan="4">FASTIGHETSDATA</td></tr> <tr><td>FASTIGHET</td><td>AREA (M²)</td><td>OMKRETS (M)</td><td>SEGMENT LÄNGD (M)</td></tr> <tr><td>Site 1:1</td><td>15672.50</td><td>505.91</td><td>144.47 108.06 144.46 108.91</td></tr> <tr><td>Site 1:2</td><td>10772.86</td><td>415.51</td><td>99.69 108.06 99.69 108.06</td></tr> </table>		FASTIGHETSDATA				FASTIGHET	AREA (M ²)	OMKRETS (M)	SEGMENT LÄNGD (M)	Site 1:1	15672.50	505.91	144.47 108.06 144.46 108.91	Site 1:2	10772.86	415.51	99.69 108.06 99.69 108.06	
FASTIGHETSDATA																				
FASTIGHET	AREA (M ²)	OMKRETS (M)	SEGMENT LÄNGD (M)																	
Site 1:1	15672.50	505.91	144.47 108.06 144.46 108.91																	
Site 1:2	10772.86	415.51	99.69 108.06 99.69 108.06																	

7.5 Grading

Grading Styles	Description	Screen grab / DWF / DWG	Default
Fylling	Fylling (röd) Fill grading style (red)		
Skjæring	Skjæring (grön) Cut grading style (green)		

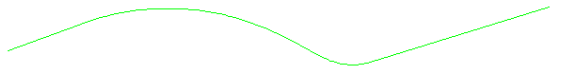
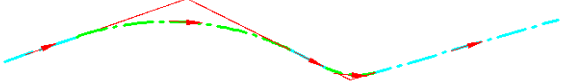
Grading Criteria Sets	Description	Screen grab / DWF / DWG	Default
Avstånd @ Skråning %	<p>Slänt med valfritt avstånd och lutning i % Grading at distance and grade in %</p> 	<p>Grading Criteria Sets</p> <ul style="list-style-type: none"> Bas Set <ul style="list-style-type: none"> Avstånd @ Lutning % Avstånd @ Lutning 1- Fast nivå @ Lutning 1- Fast nivå @ Sträcka Relativ Höjd @ Lutning Terrängmodell @ 1-1 Lutning Terrängmodell @ 1-2 Lutning Terrängmodell @ 1-3 Lutning Terrängmodell @ 1-6 Lutning Terrängmodell @ Lutning 1- 	
Avstånd @ Skråning 1-	<p>Slänt med valfritt avstånd och lutning i 1:X Grading at distance and slope 1:X</p> 		
Fast nivå @ Skråning 1-	<p>Slänt till valfritt nivå med lutning i 1:X Grading to elevation with slope 1:X</p> 		
Fast nivå @ Streckning	<p>Slänt till valfri nivå med angiven horisontell</p>		

	<p>sträcka Grading to elevation with entered horizontal distance</p>		
<p>Relativ høyde @ Skråning</p>	<p>Slånt ned valfritt nivå med angiven horisontell sträcka Grade down elevation with fixed horizontal distance</p>		
<p>Terrengmodell @ 1-2 Lutning</p>	<p>Slånt mot terrengmodell med lutning 1:2 Grading to surface at slope 1:2</p> 		
<p>Terrengmodell @ 1-3 Lutning</p>	<p>Slånt mot terrengmodell med lutning 1:3 Grading to surface at slope 1:3</p> 		
<p>Terrengmodell @ 1-6 Lutning</p>	<p>Slånt mot terrengmodell med lutning 1:6 Grading to surface at slope 1:6</p> 		

<p>Terrengmodell @ Lutning 1-</p>	<p>Slänt mot terrängmodell med valfri lutning 1:X Grading to surface at slope 1:X</p> 		
-----------------------------------	--	--	--

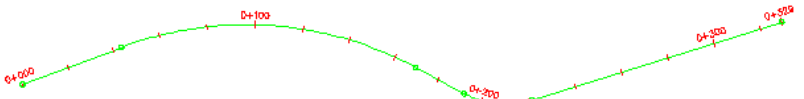
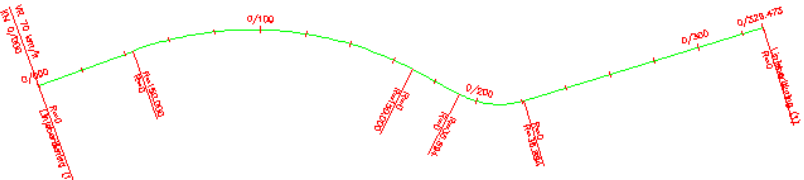
7.6 Alignments

<Template file name, start a new table for each template file>

Alignment Style	Description	Screen grab / DWF / DWG	Default
Enkel linje	Enkel grön linje Simple green line		
Veglinje - Konstruksjon	Visar olika färger för raklinje, båge och klotoid. Används vid konstruktion. Displays different color for line, arc and clothoid. Used at construction.		Ja Yes
Veglinje - Offset	Enkel mörkröd (tunn) linje Simple darkred line		
Veglinje - utskrift	Används vid utskrift Used for plotting		
VA - Horisontallinje	Används för Linjeberäkning skapad från ledningar av "Create alignment from network parts". Ligger på lager som inte plottas. Used for "Create alignment from network parts". On layer, set not to plot.		
Vis ikke - Veglinje	Linjen visas inte No display		

Alignment Design Checks	Description	Screen grab / DWF / DWG	Default
Design Check Sets			

Standard			
Line			
Curve			
Spiral			
Tangent Intersection			

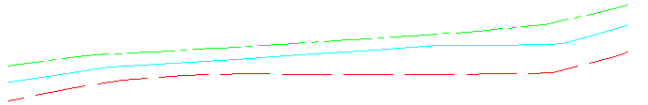
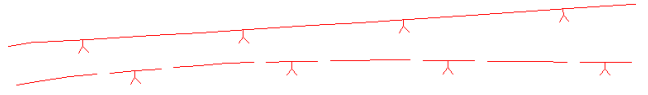
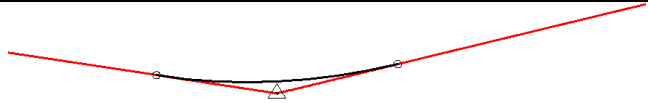

Alignment Label Type/Name	Description	Screen grab / DWF / DWG	Default
Alignment Label Sets			
Jernbane	För spårprojektering For rail alignments		
Veg – 100m	För vägprojektering. Längdmätning var 100m. TP-flaggor. For road design. Chainage at every 100m. Labels at Geometry Point.		Ja Yes
Veg – 50m	För vägprojektering. Längdmätning var 50m. TP-flaggor. For road design. Chainage at every 50m. Labels at Geometry Point.		
Major Station	Label at Major Stations		
Minor Station	Label at Minor Stations		
Geometry Point	Label at Geometry Points		
Profile Geometry Point	Labels at the profile geometry points on the alignment		
Station Equation	Station equation Labels		
Design Speed	Design Speed labels		

Superelevation Critical Points	Labels at the critical Superelevation points on the alignment		
Station Offset	Station Offset Labels		
Line	Tangent labels		
Elementbeskrivelse	Används till tabellen "Elementtabell" Used for table "Elementtabell"		
Curve	Arc Labels		
Elementbeskrivelse	Används till tabellen "Elementtabell" Used for table "Elementtabell"		
Spiral	Spiral Labels		
Elementbeskrivelse	Används till tabellen "Elementtabell" Used for table "Elementtabell"		
Tangent Intersection	PI Labels		

Alignment Table Type/Name	Description	Screen grab / DWF / DWG	Default																																																								
Line																																																											
Curve																																																											
Spiral																																																											
Segment	Line, curve or spiral element in a single table																																																										
Elementtabell	Tabell för Elementbeskrivelse Table for Element descriptions	<table border="1"> <thead> <tr> <th colspan="8">ELEMENTABELL LINJEBERÄKNING (1)</th> </tr> <tr> <th>ELEMENTNUMMER</th> <th>LÄNGDMÄTNING</th> <th>LÄNGD</th> <th>RADIE</th> <th>A VÄRDE</th> <th>START/SLUTRIKTNING</th> <th>STARTPUNKT</th> <th>SLUTPUNKT</th> </tr> </thead> <tbody> <tr> <td>Raklinje</td> <td>0/000.000</td> <td>88.67</td> <td></td> <td></td> <td>75.388 75.388</td> <td>1863.035 1212.021</td> <td>1896.430 1294.055</td> </tr> <tr> <td>Kurve ???</td> <td>0/088.571</td> <td>113.69</td> <td>150.00</td> <td></td> <td>75.388 123.595</td> <td>1896.430 1294.055</td> <td>1897.316 1404.942</td> </tr> <tr> <td>Raklinje</td> <td>0/202.156</td> <td>26.95</td> <td></td> <td></td> <td>123.595 123.595</td> <td>1897.316 1404.942</td> <td>1887.556 1430.059</td> </tr> <tr> <td>Kurve ???</td> <td>0/225.102</td> <td>115.33</td> <td>150.00</td> <td></td> <td>123.595 74.647</td> <td>1887.556 1430.059</td> <td>1589.109 1542.559</td> </tr> <tr> <td>Raklinje</td> <td>0/344.434</td> <td>44.14</td> <td></td> <td></td> <td>74.647 74.647</td> <td>1889.109 1542.559</td> <td>1906.226 1583.243</td> </tr> </tbody> </table>	ELEMENTABELL LINJEBERÄKNING (1)								ELEMENTNUMMER	LÄNGDMÄTNING	LÄNGD	RADIE	A VÄRDE	START/SLUTRIKTNING	STARTPUNKT	SLUTPUNKT	Raklinje	0/000.000	88.67			75.388 75.388	1863.035 1212.021	1896.430 1294.055	Kurve ???	0/088.571	113.69	150.00		75.388 123.595	1896.430 1294.055	1897.316 1404.942	Raklinje	0/202.156	26.95			123.595 123.595	1897.316 1404.942	1887.556 1430.059	Kurve ???	0/225.102	115.33	150.00		123.595 74.647	1887.556 1430.059	1589.109 1542.559	Raklinje	0/344.434	44.14			74.647 74.647	1889.109 1542.559	1906.226 1583.243	
ELEMENTABELL LINJEBERÄKNING (1)																																																											
ELEMENTNUMMER	LÄNGDMÄTNING	LÄNGD	RADIE	A VÄRDE	START/SLUTRIKTNING	STARTPUNKT	SLUTPUNKT																																																				
Raklinje	0/000.000	88.67			75.388 75.388	1863.035 1212.021	1896.430 1294.055																																																				
Kurve ???	0/088.571	113.69	150.00		75.388 123.595	1896.430 1294.055	1897.316 1404.942																																																				
Raklinje	0/202.156	26.95			123.595 123.595	1897.316 1404.942	1887.556 1430.059																																																				
Kurve ???	0/225.102	115.33	150.00		123.595 74.647	1887.556 1430.059	1589.109 1542.559																																																				
Raklinje	0/344.434	44.14			74.647 74.647	1889.109 1542.559	1906.226 1583.243																																																				

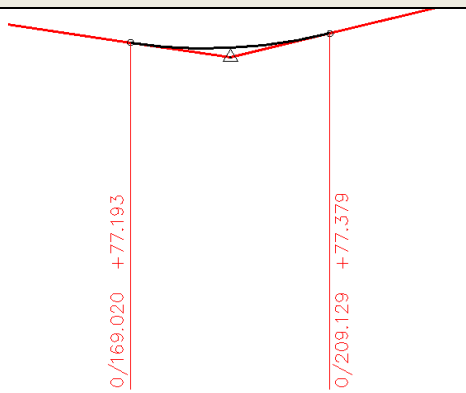
7.7 Profiles

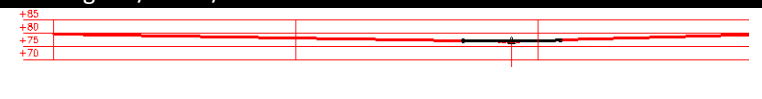
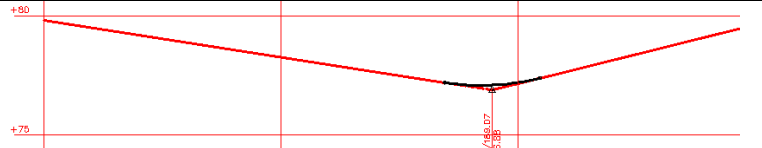
<Template file name, start a new table for each template file>

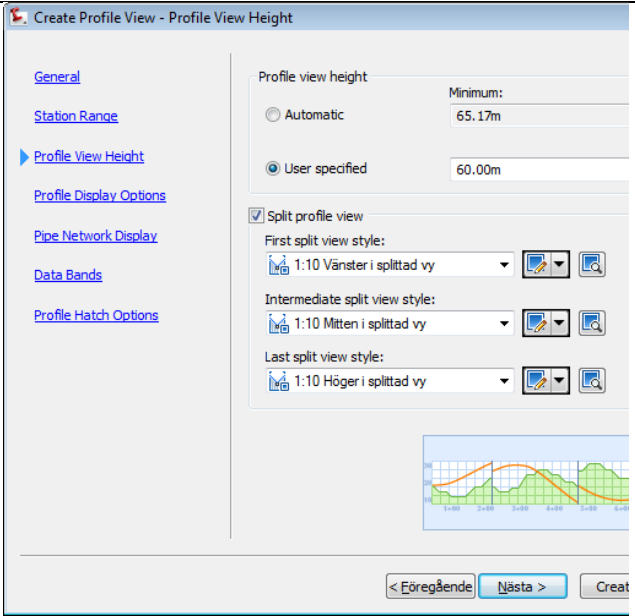
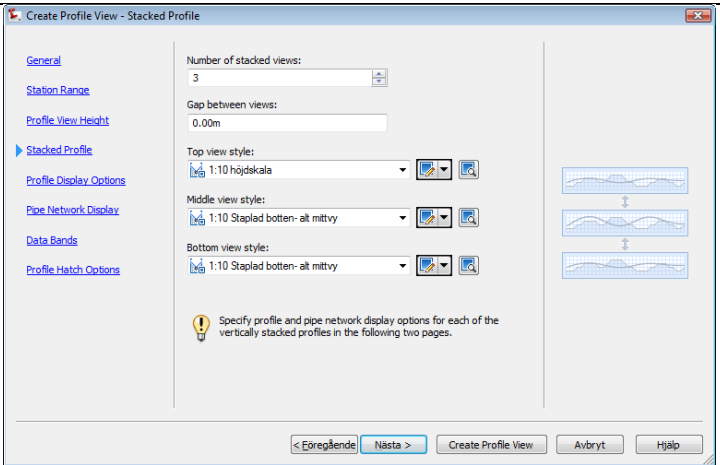
Profile Style	Description	Screen grab / DWF / DWG	Default
Eksisterende terreng - Høyre Eksisterende terreng Eksisterende terreng - Venstre	Grön streck-prickad linje Green dash-dot linetype for EG-right Ljusblå heldragen linje Cyan continuous linetype for EG Röd streckad linje Red dashed linetype for EG-left		
Fjell Fjell - Forventet	Fjell Rock surface (continuous Y-line) Fjell - Forventet Assumed Rock Surface (dashed Y-line)		
VA - Konstruksjon			
Foreslått nytt terrengnivå	Används för ex Gradings och Surfaces höjdsatta för föreslagna nya nivåer Proposed new ground level		
Vis ikke - profil	Profilen visas inte No display		
Veg - Konstruksjon	För konstruktion av vägprofil, fet linje med olika färg för elementtyper For road design, linewidth 0.3, different colors for element types		
Veg - Utskrift	Tunn profillinje för utskrift Thin profile line for printing		

Profile Design Checks	Description	Screen grab / DWF / DWG	Default
Design Check Sets			
Inga/None			
Line			
Curve			





Profile Label Type/Name	Description	Screen grab / DWF / DWG	Default
-------------------------	-------------	-------------------------	---------

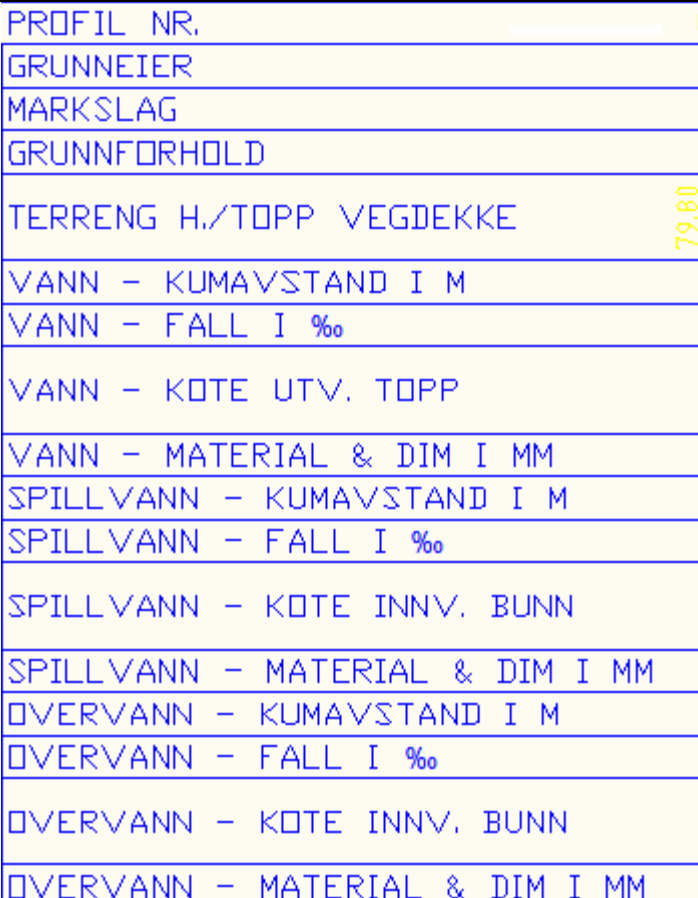
Profile Label Sets			
Veg	Info för varje TP Info for each TP		
Visa icke – etiketter	Visa ingen information No information displayed		
Major Station			
Minor Station			
Horizontal Geometry Point			
Grade Breaks			
Line	Tangent Labels		
Curve			










Profile View Type/Name	Description	Screen grab / DWF / DWG	Default
1:1 høydeoverdrivelse	1:1 høydeoverdrivelse Metric style with vertical exaggeration set to 1 times		
1:5 høydeoverdrivelse	1:10 høydeoverdrivelse Metric style with vertical exaggeration set to 5 times		

<p>1:5 Høyre i splittet visning</p>	<p>Används för splittade profiler "Split Profile Views" som "Last split view style" (i Create Profile View)</p> <p>Used for "Split Profile Views" as "Last split view style" (in Create Profile View)</p>			
<p>1:5 Midt i splittet visning</p>	<p>Används för splittade profiler "Split Profile Views" som "Intermediate split view style" (in Create Profile View)</p> <p>Used for "Split Profile Views" as "Intermediate split view style" (in Create Profile View)</p>			
<p>1:5 Venstre i splittet visning</p>	<p>Används för splittade profiler "Split Profile Views" som "First split view style" (in Create Profile View)</p> <p>Used for "Split Profile Views" as "First split view style" (in Create Profile View)</p>			
<p>1:5 Stablat bunn- eller mitt-visning</p>	<p>Avsedd att användas för staplade (stacked) Profile Views som "Middle view style" och "Bottom view style"</p> <p>Used for stacked Profile Views as "Middle view style" and "Bottom view style"</p>			

Profile View Label Type/Name	Description	Screen grab / DWF / DWG	Default
Station Elevation			

	Translated standard label	 Station Elevation  Sektion och Höjd	
Depth			
	Translated standard label	 Depth  Längd lutning	

Profile Band Type/Name	Description	Screen grab / DWF / DWG	Default
Profile Band Set			
VA-profil	Band för ledningsnät: Dagvatten, Spillvatten samt Vatten Bands for Pipe networks: Storm, Sanatary and Water	 <p> PROFIL NR. _____ GRUNNEIER _____ MARKSLAG _____ GRUNNFÖRHOLD _____ TERRENG H./TOPP VEGDEKKE 79.80 VANN - KUMAVSTAND I M _____ VANN - FALL I ‰ _____ VANN - KOTE UTV. TOPP _____ VANN - MATERIAL & DIM I MM _____ SPILLVANN - KUMAVSTAND I M _____ SPILLVANN - FALL I ‰ _____ SPILLVANN - KOTE INNV. BUNN _____ SPILLVANN - MATERIAL & DIM I MM _____ OVERVANN - KUMAVSTAND I M _____ OVERVANN - FALL I ‰ _____ OVERVANN - KOTE INNV. BUNN _____ OVERVANN - MATERIAL & DIM I MM _____ </p>	

<p>Visa ikke - band</p>	<p>Inga informationsband No bands</p>		
<p>Veg</p>	<p>Band för Vägprofil</p>	<p>PROFIL NR. HOR.KURV. BREIDDEUTV. TVERRFALL H.k.j.b.k. V.k.j.b.k. PROFIL H. TERRENG H. OVERBYGGN.T.</p>	
<p>Profile Data</p>			
		<p>  Profile Data <ul style="list-style-type: none">  GRUNNEIER  MARKSLAG  OVERBYGGN.T.  PROFIL H  PROFIL NR  PROFIL NR - VA  TERRENG H  TERRENG H - TOPP VEGDEKKE </p>	
<p>Vertical Geometry</p>			

		<ul style="list-style-type: none"> Vertical Geometry <ul style="list-style-type: none"> Profildata Profildata - Konkav kurve Profildata - Konveks kurve Profildata - Rettlinje Standard 	
Horizontal Geometry			
		<ul style="list-style-type: none"> Horizontal Geometry <ul style="list-style-type: none"> BREDDEUTV HOR.KURV. Plandata Standard 	
Superelevation Data			
		<ul style="list-style-type: none"> Superelevation Data <ul style="list-style-type: none"> Standard TVERRFALL 	
Sectional Data			
		<ul style="list-style-type: none"> Sectional Data <ul style="list-style-type: none"> Seksjonslinje - navn og avstand Standard 	
Pipe Network			

--	--	--	--

7.8 Sections

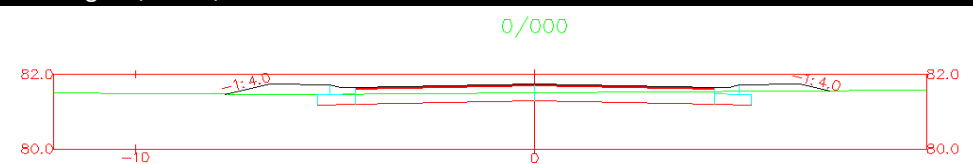
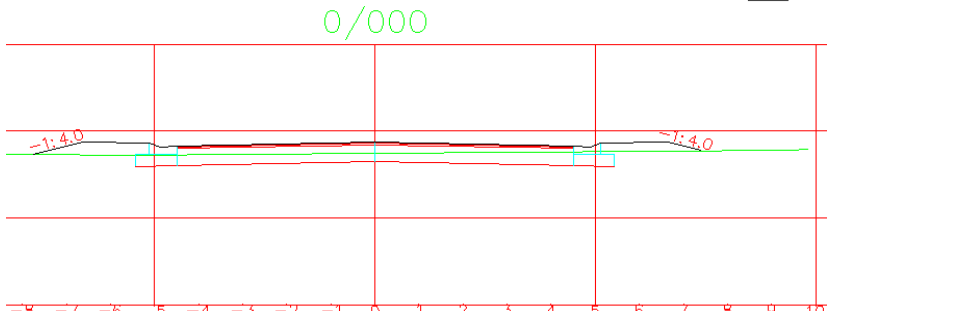
<Template file name, start a new table for each template file>

Sample Line Styles	Description	Screen grab / DWF / DWG	Default
Tverrprofil-linje	Sektionslinjen ritas ut på ett lager som inte plottas Sample line is drawn on layer, set not to plot.		
Vis ikke - tverrprofil-linje	Inga linjer visas No lines visible		

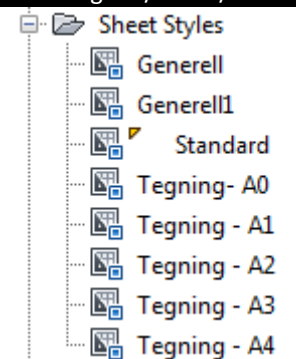
Sample Line Label Styles	Description	Screen grab / DWF / DWG	Default
Tverrprofil-navn	Längdmätningen anges per sektionslinje Ligger på lager som inte plottas Chainage is presented as SL-name on layer, set not to plot.		Ja Yes
Vis ikke - navn	Inga etiketter No labels		





Section Styles	Description	Screen grab / DWF / DWG	Default
	<p>Se profilstilar för samma stilnamn</p> <p>Se Profile Styles for corresponding names</p>		

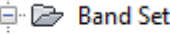


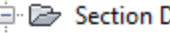
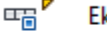
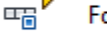
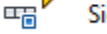
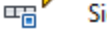
Section Label Styles	Description	Screen grab / DWF / DWG	Default
Label Sets			
Major Offset			
Minor Offset			
Grade Break			
Segment			

Section View Styles	Description	Screen grab / DWF / DWG	Default
Tverrprofil - Enkel	Tvårsektion – Enkel Section view style - simplified		Ja Yes
Tverrprofil	Tvårsektion med større storlek Section view style - basic		

Group Plot Styles	Description	Screen grab / DWF / DWG	Default
			

Sheet Styles	Description	Screen grab / DWF / DWG	Default
	Ritning =Tegning = Drawing		

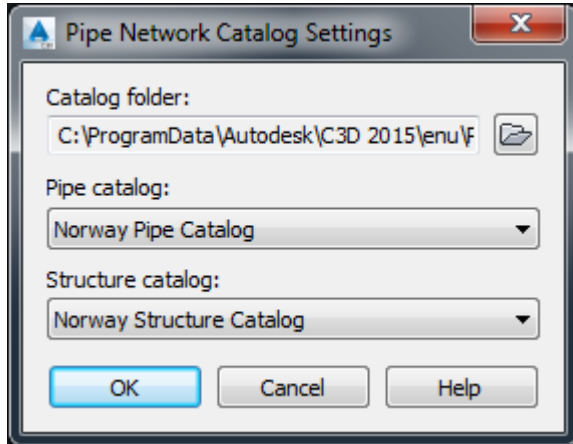
Label Styles	Description	Screen grab / DWF / DWG	Default
Offset Elevation	Sidomått och höjd Offset and elevation	 Offset Elevation  Sidemål og høyde	
Grade	Lutning i % mellan punkter Grade in % between points	 Grade  Skråning mellom punkter	

Section Band Styles	Description	Screen grab / DWF / DWG	Default
Band Sets		 Band Sets  Hovedseksjoner sidemål och høyde  Kun sidemål	
Section Data		 Section Data  Eksisterende terreng - høyde  Foreslått terreng - høyde  Sidemål  Sidemål - horisontalt	

Section Table Styles	Description	Screen grab / DWF / DWG	Default																												
Total Volume																															
Sjakt fyll og akkumulert	<p>Schakt och fyll, area och volym plus akkumulerad volym samt netto presenterad i tabell</p> <p>Cut and fill, area and volume, also accumulated volumes and net presented in a table</p>	<table border="1"> <tr> <td>Schakt</td> <td>0.00 m²</td> <td></td> <td></td> </tr> <tr> <td>Fyll</td> <td>0.00 m²</td> <td></td> <td></td> </tr> <tr> <td>Schakt</td> <td>0.00 m³</td> <td></td> <td></td> </tr> <tr> <td>Fyll</td> <td>0.00 m³</td> <td></td> <td></td> </tr> <tr> <td>Ack schakt</td> <td>0.00 m³</td> <td></td> <td></td> </tr> <tr> <td>Ack fyll</td> <td>0.00 m³</td> <td></td> <td></td> </tr> <tr> <td>Netto</td> <td>0.00 m³</td> <td></td> <td></td> </tr> </table>	Schakt	0.00 m ²			Fyll	0.00 m ²			Schakt	0.00 m ³			Fyll	0.00 m ³			Ack schakt	0.00 m ³			Ack fyll	0.00 m ³			Netto	0.00 m ³			
Schakt	0.00 m ²																														
Fyll	0.00 m ²																														
Schakt	0.00 m ³																														
Fyll	0.00 m ³																														
Ack schakt	0.00 m ³																														
Ack fyll	0.00 m ³																														
Netto	0.00 m ³																														
Skjæring og fylling	<p>Schakt och fyll, area och volym presenterad i bantad tabell</p> <p>Cut and fill, area and volume presented in a compressed table</p>	<table border="1"> <tr> <td>S</td> <td>0.00 m²</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td>0.00 m²</td> <td></td> <td></td> </tr> <tr> <td>S</td> <td>0.00 m³</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td>0.00 m³</td> <td></td> <td></td> </tr> </table>	S	0.00 m ²			F	0.00 m ²			S	0.00 m ³			F	0.00 m ³															
S	0.00 m ²																														
F	0.00 m ²																														
S	0.00 m ³																														
F	0.00 m ³																														
Material																															
Areal og volum	<p>Area, volym samt ack volym presenterat för enstaka material per längdmätning</p> <p>Area, volume and acc volume presented for one material per chainage</p>	<table border="1"> <tr> <td colspan="4" style="text-align: center;">Bundet bärlager</td> </tr> <tr> <td>Längdmätning</td> <td>Area</td> <td>Volym</td> <td>Ack volym</td> </tr> <tr> <td>0/000</td> <td>0.23</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>0/020</td> <td>0.22</td> <td>4.50</td> <td>4.50</td> </tr> <tr> <td>0/040</td> <td>0.22</td> <td>4.50</td> <td>9.00</td> </tr> </table>	Bundet bärlager				Längdmätning	Area	Volym	Ack volym	0/000	0.23	0.00	0.00	0/020	0.22	4.50	4.50	0/040	0.22	4.50	9.00									
Bundet bärlager																															
Längdmätning	Area	Volym	Ack volym																												
0/000	0.23	0.00	0.00																												
0/020	0.22	4.50	4.50																												
0/040	0.22	4.50	9.00																												

7.9 Pipe Networks

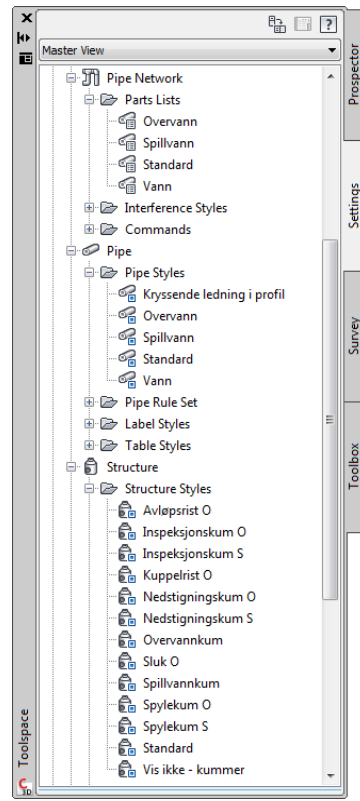
För att arbeta med norska ledningar måste man först aktivera den norska ledningskatalogen med kommandot Set Pipe Network Catalog (_AeccSetNetworkCatalog) och ställa in enligt nedan:



Parts Lists	Description	Screen grab / DWF / DWG	Default

Det finns tre olika nätverkssystem, Parts lists:

- Övervann (Storm Sewer)
- Spillvann (Sewer)
- Vann (Water supply)



Overvann

Ledninger/Pipes

Network Parts List - Overvann

Information Pipes Structures Summary

Name	Style	Rules	Render Material	Pay Item
Overvann				
Betongrør				
O 150	Overvann	Overvann	Betong - Støpt i ...	BTG-150
O 250	Overvann	Overvann	Betong - Støpt i ...	BTG-250
O 300	Overvann	Overvann	Betong - Støpt i ...	BTG-300
O 400	Overvann	Overvann	Betong - Støpt i ...	BTG-400
O 500	Overvann	Overvann	Betong - Støpt i ...	BTG-500
O 600	Overvann	Overvann	Betong - Støpt i ...	BTG-600
O 800	Overvann	Overvann	Betong - Støpt i ...	BTG-800
O 1000	Overvann	Overvann	Betong - Støpt i ...	BTG-1000
O 1200	Overvann	Overvann	Betong - Støpt i ...	BTG-1200
O 1400	Overvann	Overvann	Betong - Støpt i ...	BTG-1400
O 1600	Overvann	Overvann	Betong - Støpt i ...	BTG-1600
O 1800	Overvann	Overvann	Betong - Støpt i ...	BTG-1800
O 2000	Overvann	Overvann	Betong - Støpt i ...	BTG-2000
O 2200	Overvann	Overvann	Betong - Støpt i ...	BTG-2200
O 2700	Overvann	Overvann	Betong - Støpt i ...	BTG-2700
PP-rør				
O 110 PP	Overvann	Overvann	Plast - Oransje	PP-110
O 160 PP	Overvann	Overvann	Plast - Oransje	PP-160
O 200 PP	Overvann	Overvann	Plast - Oransje	PP-200

OK Avbryt Apply Hjälp

Kummer/Structures

Network Parts List - Overvann

Information Pipes Structures Summary

Name	Style	Rules	Render Material	Pay Item
Overvann				
Nedstigningskum				
NK 1000	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1000
NK 1200	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1200
NK 1400	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1400
NK 1500	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1500
NK 1800	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1800
NK 2000	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-2000
Brytningspunkt				
Brytningspunkt	Vis ikke - kummer	Standard	ByLayer	[none]
Kuppelrist				
KR 315	Kuppelrist O	Sandfang	Betong - Støpt i ...	KR-315
KR 400	Kuppelrist O	Sandfang	Betong - Støpt i ...	KR-400
KR 500	Kuppelrist O	Sandfang	Betong - Støpt i ...	KR-500
KR 600	Kuppelrist O	Sandfang	Betong - Støpt i ...	KR-600
Spylekum				
Sluk				
Inspeksjonskum				
IK 315	Inspeksjonskum O	Standard	Betong - Støpt i ...	IK-315
IK 400	Inspeksjonskum O	Standard	Betong - Støpt i ...	IK-400
IK 600	Inspeksjonskum O	Standard	Betong - Støpt i ...	IK-600
Null Structure				

OK Avbryt Apply Hjelp

Spillvatten

Ledninger/Pipes

The screenshot shows a software dialog box titled "Network Parts List - Spillvann". It has four tabs: "Information", "Pipes", "Structures", and "Summary". The "Pipes" tab is active, displaying a table with the following columns: Name, Style, Rules, Render Material, and Pay Item. The table is organized into two main categories: "Betongrør" (Concrete pipes) and "PP-rør" (PP pipes). Each category lists various pipe sizes and their corresponding materials and pay items.

Name	Style	Rules	Render Material	Pay Item
Spillvann				
Betongrør				
S 150	Spillvann	Spillvann	Betong - Støpt i ...	BTG-150
S 225	Spillvann	Spillvann	Betong - Støpt i ...	BTG-250
S 300	Spillvann	Spillvann	Betong - Støpt i ...	BTG-300
S 400	Spillvann	Spillvann	Betong - Støpt i ...	BTG-400
S 500	Spillvann	Spillvann	Betong - Støpt i ...	BTG-500
S 600	Spillvann	Spillvann	Betong - Støpt i ...	BTG-600
S 800	Spillvann	Spillvann	Betong - Støpt i ...	BTG-800
S 1000	Spillvann	Spillvann	Betong - Støpt i ...	BTG-1000
S 1200	Spillvann	Spillvann	Betong - Støpt i ...	BTG-1200
S 1400	Spillvann	Spillvann	Betong - Støpt i ...	BTG-1400
S 1600	Spillvann	Spillvann	Betong - Støpt i ...	BTG-1600
S 1800	Spillvann	Spillvann	Betong - Støpt i ...	BTG-1800
S 2000	Spillvann	Spillvann	Betong - Støpt i ...	BTG-2000
S 2200	Spillvann	Spillvann	Betong - Støpt i ...	BTG-2200
S 2700	Spillvann	Spillvann	Betong - Støpt i ...	BTG-2700
PP-rør				
S 110 PP	Spillvann	Spillvann	Plast - Oransje	PP-110
S 160 PP	Spillvann	Spillvann	Plast - Oransje	PP-160
S 200 PP	Spillvann	Spillvann	Plast - Oransje	PP-200

At the bottom of the dialog box, there are four buttons: "OK", "Avbryt", "Apply", and "Hjelp".

Kummer/Structures

Network Parts List - Spillvann

Information Pipes Structures Summary

Name	Style	Rules	Render Material	Pay Item
Spillvann				
Nedstigningskum				
NK 1000	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1000
NK 1200	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1200
NK 1400	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1400
NK 1500	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1500
NK 1800	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-1800
NK 2000	Nedstigningsku...	Standard	Betong - Støpt i ...	NK-2000
Brytningspunkt				
Brytningspunkt	Vis ikke - kummer	Standard	ByLayer	[none]
Spylekum				
SK 150	Spylekum S	Standard	Betong - Støpt i ...	SK-150
SK 160	Spylekum S	Standard	Betong - Støpt i ...	SK-160
SK 200	Spylekum S	Standard	Betong - Støpt i ...	SK-200
SK 225	Spylekum S	Standard	Betong - Støpt i ...	SK-225
Inspeksjonskum				
IK 315	Inspeksjonskum S	Standard	Betong - Støpt i ...	IK-315
IK 400	Inspeksjonskum S	Standard	Betong - Støpt i ...	IK-400
IK 600	Inspeksjonskum S	Standard	Betong - Støpt i ...	IK-600
Null Structure				

OK Avbryt Apply Hjelp

Vatten

Ledningar/Pipes

Network Parts List - Vann

Information Pipes Structures Summary



Name	Style	Rules	Render Material	Pay Item
Vann				
PE-rør				
V 25	Vann	Vann	Plast - Svart	PE-25
V 32	Vann	Vann	Plast - Svart	PE-32
V 40	Vann	Vann	Plast - Svart	PE-40
V 63	Vann	Vann	Plast - Svart	PE-63
V 75	Vann	Vann	Plast - Svart	PE-75
V 90	Vann	Vann	Plast - Svart	PE-90
V 110	Vann	Vann	Plast - Svart	PE-110
V 140	Vann	Vann	Plast - Svart	PE-140
V 160	Vann	Vann	Plast - Svart	PE-160
V 180	Vann	Vann	Plast - Svart	PE-180
V 200	Vann	Vann	Plast - Svart	PE-200
V 225	Vann	Vann	Plast - Svart	PE-225
V 250	Vann	Vann	Plast - Svart	PE-250
V 280	Vann	Vann	Plast - Svart	PE-280
V 315	Vann	Vann	Plast - Svart	PE-315
V 355	Vann	Vann	Plast - Svart	PE-355
V 400	Vann	Vann	Plast - Svart	PE-400

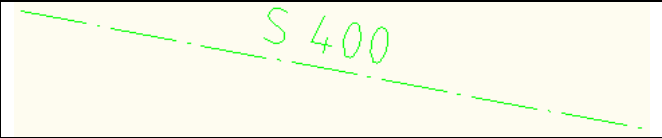
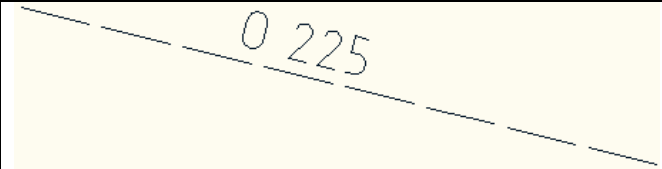
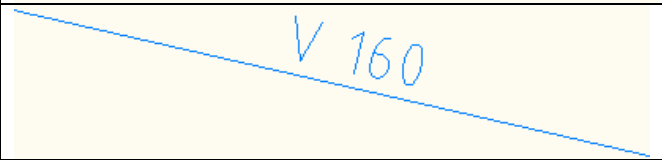
OK Avbryt Apply Hjälp

Brunnar/Structures

The screenshot shows a software dialog box titled "Network Parts List - Vann". It has four tabs: "Information", "Pipes", "Structures", and "Summary". The "Structures" tab is selected. Below the tabs is a table with the following columns: "Name", "Style", "Rules", "Render Material", and "Pay Item". The table contains three rows of data, each with a tree-view icon on the left. The first row is "Vann". The second row is "Brytningspunkt" with a style of "Vis ikke - kummer", rule of "Vann", and render material of "ByLayer". The third row is "Null Structure". At the bottom of the dialog are four buttons: "OK", "Avbryt", "Apply", and "Hjälp".

Name	Style	Rules	Render Material	Pay Item
Vann				
Brytningspunkt	Vis ikke - kummer	Vann	ByLayer	[none]
Null Structure				

Interference Styles	Description	Screen grab / DWF / DWG	Default
Markering i plan og 3D-kule	I plan visas en symbol men i 3D visas en sfär i kollisionspunkten In Plan: A marker. In 3D a sphere.		
Markering i plan og 3D-visning farget	I plan visas en symbol men i 3D visas kollisionen som en färgad yta på objektet In Plan: A marker. In 3D true interference solid		

Pipe Styles	Description	Screen grab / DWF / DWG	Default
Spillvann	Sewer		
Dagvann	Storm sewer		
Vann	Water supply		
Kryssende ledning i profil			

Pipe Rule Set	Description	Screen grab / DWF / DWG	Default
---------------	-------------	-------------------------	---------

Spillvann	Sewer	<ul style="list-style-type: none"> [-] Cover And Slope <ul style="list-style-type: none"> Maximum Cover 7.000m Maximum Slope 1.00% Minimum Cover 1.500m Minimum Slope 0.20% [-] Length Check <ul style="list-style-type: none"> Maximum Length 100.000m Minimum Length 1.000m 		
Overvann	Storm sewer	<ul style="list-style-type: none"> [-] Cover And Slope <ul style="list-style-type: none"> Maximum Cover 7.000m Maximum Slope 1.00% Minimum Cover 1.000m Minimum Slope 0.20% [-] Length Check <ul style="list-style-type: none"> Maximum Length 100.000m Minimum Length 1.000m 		
Vann	Water supply	<ul style="list-style-type: none"> [-] Cover And Slope <ul style="list-style-type: none"> Maximum Cover 10.000m Maximum Slope 200.00% Minimum Cover 1.500m Minimum Slope 0.01% 		

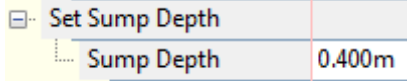
Pipe Label Styles	Description	Screen grab / DWF / DWG	Default
Plan Profile			

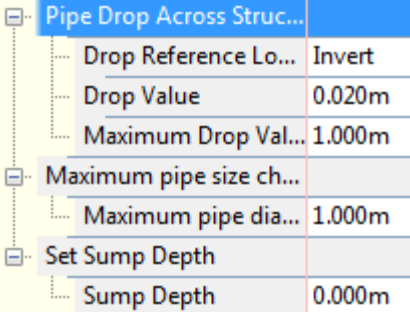
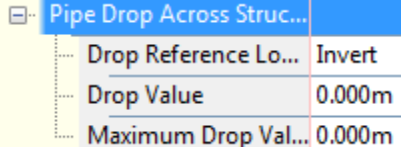
<p>Crossing Section</p>			

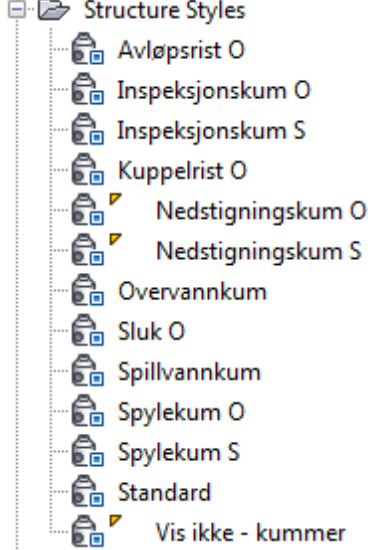
Pipe Table Styles	Description	Screen grab / DWF / DWG	Default
-------------------	-------------	-------------------------	---------

Ledninger	Data om ledninger	Ledningar Dagvatten						
	Info about pipes	Ledning	Dim	Material	Längd	Lutning	Startbrunn	Slutbrunn
		Ledning (4)	150	Betong	10.22	2.0%	5	6
		Ledning (5)	150	Betong	13.38	2.0%	6	7
		Ledning (6)	150	Betong	14.38	2.0%		

Structure Styles	Description	Screen grab / DWF / DWG	Default
<ul style="list-style-type: none"> Structure Styles Avløpsrist O Inspeksjonskum O Inspeksjonskum S Kuppelrist O Nedstigningskum O Nedstigningskum S Overvannkum Sluk O Spillvannkum Spylekum O Spylekum S Standard Vis ikke - kummer 			

Structure Rule Sets	Description	Screen grab / DWF / DWG	Default
Sandfang	Sandfang endast Only Sump depth		

Standard	Standard regel for kummer Standard rule for structures		Ja Yes
Vann	Regler för vann-kummer Rules for water supply structures		

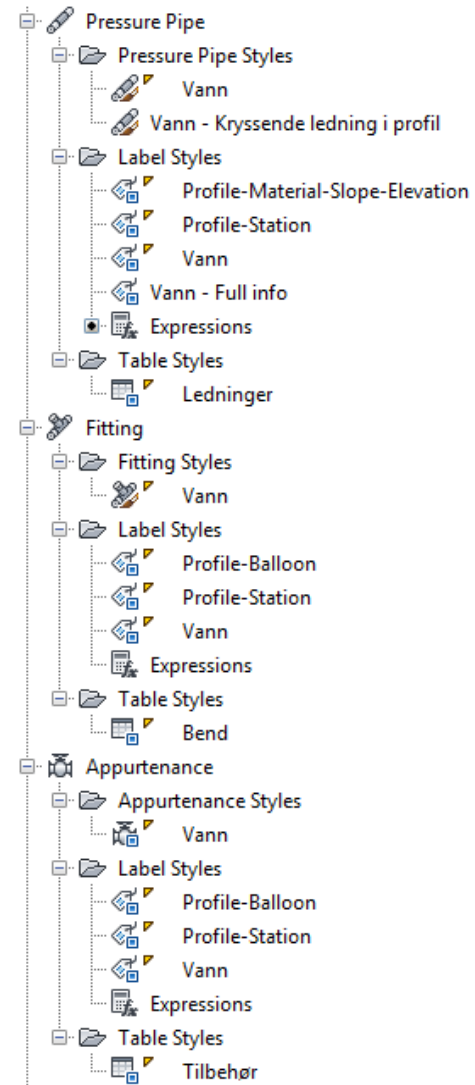
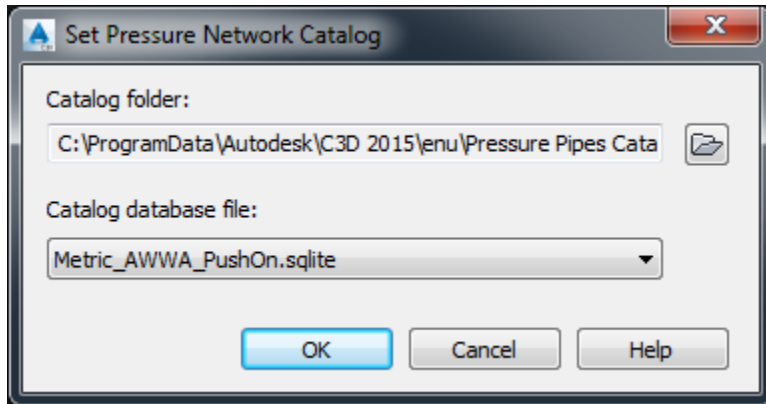
Structure Label Styles	Description	Screen grab / DWF / DWG	Default
			

Structure Table	Description	Screen grab / DWF / DWG	Default
-----------------	-------------	-------------------------	---------

Styles											
Kummer	Kum- och ledningsinfo Info about structures and pipes	Brunnar Dagvatten								Ja Yes	
		Brunn	Typ	Material	X	Y	Z-Loek	Z-botten	SF-Djup		Ledning in
		5	NB 1000	Betong	97111,2098	72814,4991	143,342	142,163	0,000		Ledning (4) Dim=150 VG=142,163
		6	NB 1000	Betong	97101,8828	72819,6095	143,626	142,142	0,000	Ledning (4) Dim=150 VG=142,14	Ledning (5) Dim=150 VG=142,142
		7	NB 1000	Betong	97095,1687	72832,1651	143,651	142,114	0,000	Ledning (5) Dim=150 VG=142,11	
		8	NB 1000	Betong	97093,3384	72846,4293	143,407	142,085	0,000		

7.10 Pressure Pipe Networks

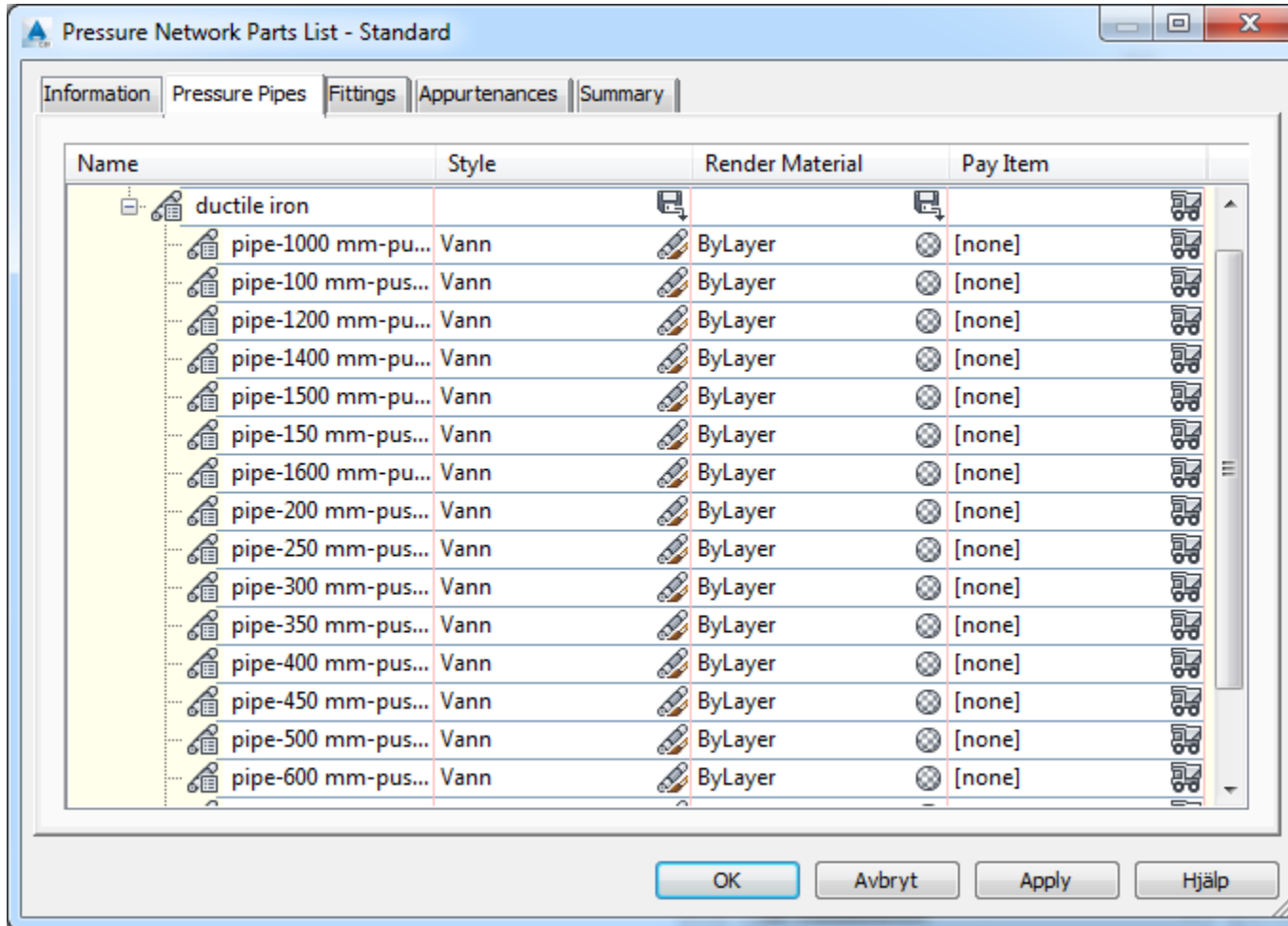
För att arbeta med de "svenska" tryckledningar som finns i den svenska mallfilen så måste man först aktivera standard tryckledningskatalogen med kommandot Set Pressure Network Catalog (`_AeccSetPressureNetworkCatalog`) och ställa in enligt nedan. Det levereras alltså ingen speciell katalog som är anpassad för svenska tryckledningar.



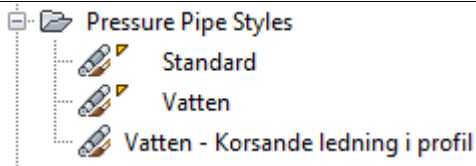
Parts Lists	Description	Screen grab / DWF / DWG	Default
-------------	-------------	-------------------------	---------

Det finns ett nätverkssystem, Parts lists:

- Standard: Detta system bygger på amerikanska gjutjärns-ledningar och är inte helt anpassade till svenskt utseende. Katalogen innehåller ledningar, böjar och T-stycken som har fått stilar som följer svensk standard för vattenledningar.



Pressure Pipe Styles	Description	Screen grab / DWF / DWG	Default
Vann	Water supply		
Vatten - Korsande ledning i profil			



Pressure Pipe > Label Styles	Description	Screen grab / DWF / DWG	Default
Plan Profile			
	<p>Det finns ett flertal labels med prefixet "Profil". Dessa labels kan sättas in för ledningsobjekt i en Profile View. De hamnar då på "rätt" läge för att skriva ut höjd, material, lutning etc, i Profile Bands. Notera inställningen Dimension Anchor, i Label Properties, som styr placeringen av labeln i djupled i Profile Bands. Notera även att det är olika inställningar för Add Pressure Profile Labels enligt bilderna nedan.</p>		

Add Labels

Feature: Pressure Pipe Network

Label type: Entire Pressure Network Profile

Pressure Pipe label style: Profile-Material-Elevation

Fitting label style: Profile-Balloon

Appurtenance label style: Profile-Balloon

Reference text object prompt method: Command Line

Add Close Help

Edit Command Settings - AddPressureProfLabels

Property	Value	Overide	Child Ov...	Lock
General				
Degree of Curvature				
Labeling				
Time				
Default Styles				
Default Name Format				
Default Profile Label Placement				
Dimension anchor option for pressure pipes	Graph view bottom	<input type="checkbox"/>		<input type="checkbox"/>
Dimension anchor elevation value for pressure pipes	-0.047m	<input type="checkbox"/>		<input type="checkbox"/>
Dimension anchor option for fittings	Graph view top	<input type="checkbox"/>		<input type="checkbox"/>
Dimension anchor elevation value for fittings	0.000m	<input type="checkbox"/>		<input type="checkbox"/>
Dimension anchor option for appurtenances	Graph view top	<input type="checkbox"/>		<input type="checkbox"/>
Dimension anchor elevation for appurtenances	0.000m	<input type="checkbox"/>		<input type="checkbox"/>
Unitless				

OK Avbryt Apply Hjälp

Add Labels

Feature: Pressure Pipe Network

Label type: Single Pressure Part Profile

Pressure Pipe label style: Profile-Station

Fitting label style: Profile-Station

Appurtenance label style: Profile-Station

Reference text object prompt method: Command Line

Add Close Help

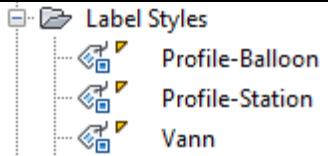
Edit Command Settings - AddPressurePartProfLabel

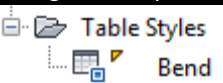
Property	Value	Overide	Child Over...	Lock
General				
Degree of Curvature				
Labeling				
Time				
Default Styles				
Default Name Format				
Default Profile Label Placement				
Dimension anchor option for pressure pipes	Graph view bottom	<input type="checkbox"/>		<input type="checkbox"/>
Dimension anchor elevation value for pressure pipes	0.000m	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Dimension anchor option for fittings	Graph view bottom	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Dimension anchor elevation value for fittings	0.000m	<input type="checkbox"/>		<input type="checkbox"/>
Dimension anchor option for appurtenances	Graph view bottom	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Dimension anchor elevation for appurtenances	0.000m	<input type="checkbox"/>		<input type="checkbox"/>


OK Avbryt Apply Hjälp

Pipe Table Styles	Description	Screen grab / DWF / DWG	Default
Ledningar	Data om ledningar Info about pipes		

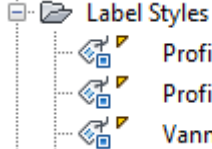
Fitting Styles	Description	Screen grab / DWF / DWG	Default
			

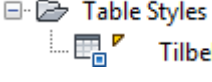
Fitting Label Styles	Description	Screen grab / DWF / DWG	Default
	Det finns ett flertal labels med prefixet "Profil". Dessa labels kan sättas in för fittings i en Profile View.		

Fitting Table Styles	Description	Screen grab / DWF / DWG	Default
	Bendinfo Info about fittings		Ja Yes

Appurtenance Styles	Description	Screen grab / DWF / DWG	Default
			

Appurtenance Label Styles	Description	Screen grab / DWF / DWG	Default
---------------------------	-------------	-------------------------	---------

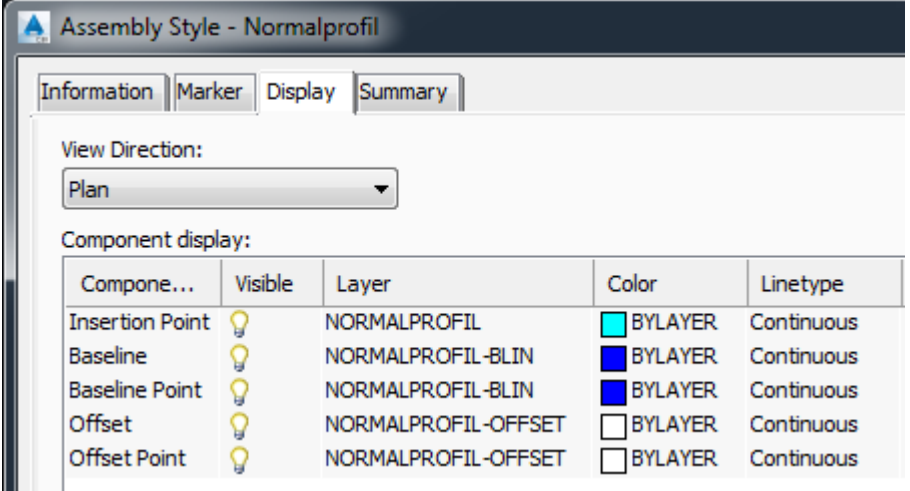
 <p>Label Styles Profile-Balloon Profile-Station Vann</p>	<p>Det finns ett flertal labels med prefixet "Profil". Dessa labels kan sättas in för Appurtenance i en Profile View.</p>		

Appurtenance Table Styles	Description	Screen grab / DWF / DWG	Default
 <p>Table Styles Tilbehør</p>	<p>Info om Anordningar Info about Appurtenance</p>		<p>Ja Yes</p>

7.11 Corridors

<Template file name, start a new table for each template file>

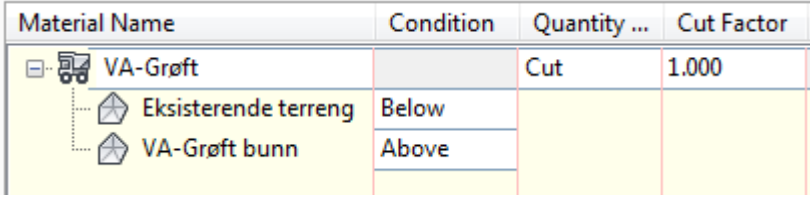
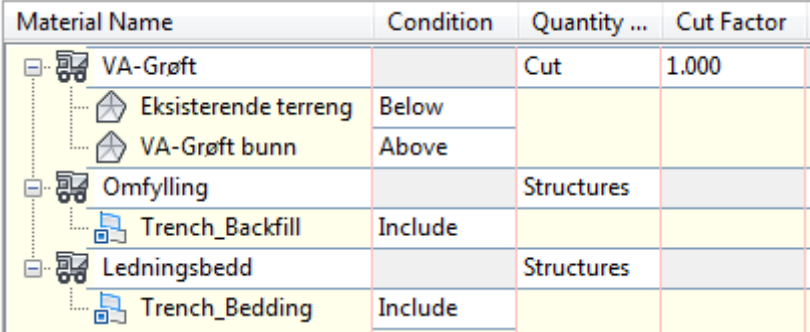
Corridor Styles	Description	Screen grab / DWF / DWG	Default
Korridor	Allt påslaget All on		
Vis ikke - korridor	Allt avslaget All off		

Assembly Styles	Description	Screen grab / DWF / DWG	Default
Normalprofil			Ja/Yes

Mass Haul Line Styles	Description	Screen grab / DWF / DWG	Default
Volumlinje			

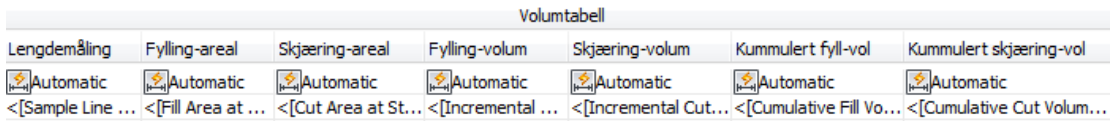
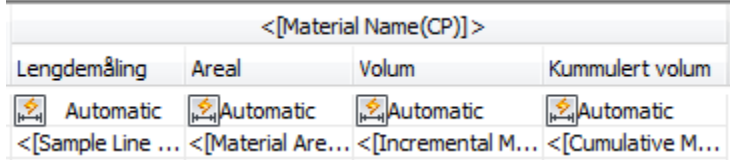
Mass Haul View Styles	Description	Screen grab / DWF / DWG	Default
Innsnevret	Innsnevret vy som kan plasseres inuti en profilritning		Ja Yes

	Compressed view that can be placed in a Profile view		
Normal	Används för "ensamstående" vy Used for "stand alone" view		

Quantity Takeoff Criteria	Description	Screen grab / DWF / DWG	Default																																
VA-Grøft	<p>Skapa flate for VA-Grøft samt eksisterende terreng. Sections > Generate volume report: Volymberegning flere sjikt.xml Sections > Add Tables > Material Volume</p> <p>Create surface for Trench in Corridor. Needs surface for EG. For external XML-rapport use Sections > Generate volume report: Volymberegning flere sjikt.xml For table in drawing use Sections > Add Tables > Material Volume</p>	 <table border="1"> <thead> <tr> <th>Material Name</th> <th>Condition</th> <th>Quantity ...</th> <th>Cut Factor</th> </tr> </thead> <tbody> <tr> <td>VA-Grøft</td> <td></td> <td>Cut</td> <td>1.000</td> </tr> <tr> <td>Eksisterende terreng</td> <td>Below</td> <td></td> <td></td> </tr> <tr> <td>VA-Grøft bunn</td> <td>Above</td> <td></td> <td></td> </tr> </tbody> </table>	Material Name	Condition	Quantity ...	Cut Factor	VA-Grøft		Cut	1.000	Eksisterende terreng	Below			VA-Grøft bunn	Above																			
Material Name	Condition	Quantity ...	Cut Factor																																
VA-Grøft		Cut	1.000																																
Eksisterende terreng	Below																																		
VA-Grøft bunn	Above																																		
VA-Grøft 2 sjikt	<p>Skapa yta for VA-Grøft samt eksisterende terreng. Sections > Generate volume report: Volymberegning flere sjikt.xml Sections > Add Tables > Material Volume</p> <p>Create surface for Trench in Corridor. Needs surface for EG. For external XML-rapport use Sections > Generate volume report: Volymberegning flere sjikt.xml For table in drawing use Sections > Add Tables > Material Volume</p>	 <table border="1"> <thead> <tr> <th>Material Name</th> <th>Condition</th> <th>Quantity ...</th> <th>Cut Factor</th> </tr> </thead> <tbody> <tr> <td>VA-Grøft</td> <td></td> <td>Cut</td> <td>1.000</td> </tr> <tr> <td>Eksisterende terreng</td> <td>Below</td> <td></td> <td></td> </tr> <tr> <td>VA-Grøft bunn</td> <td>Above</td> <td></td> <td></td> </tr> <tr> <td>Omfylling</td> <td></td> <td>Structures</td> <td></td> </tr> <tr> <td>Trench_Backfill</td> <td>Include</td> <td></td> <td></td> </tr> <tr> <td>Ledningsbedd</td> <td></td> <td>Structures</td> <td></td> </tr> <tr> <td>Trench_Bedding</td> <td>Include</td> <td></td> <td></td> </tr> </tbody> </table>	Material Name	Condition	Quantity ...	Cut Factor	VA-Grøft		Cut	1.000	Eksisterende terreng	Below			VA-Grøft bunn	Above			Omfylling		Structures		Trench_Backfill	Include			Ledningsbedd		Structures		Trench_Bedding	Include			
Material Name	Condition	Quantity ...	Cut Factor																																
VA-Grøft		Cut	1.000																																
Eksisterende terreng	Below																																		
VA-Grøft bunn	Above																																		
Omfylling		Structures																																	
Trench_Backfill	Include																																		
Ledningsbedd		Structures																																	
Trench_Bedding	Include																																		

<p>_Volumberegning</p> <p>Skapa flate för traubunn i korridoren! Ger volymrapport med Skjæring & Fylling specat sektionsvis, på samma rad. Sections > Generate volume report: Volymberegning.xsl Sections > Add Tables > Total Volume Denna används även för Volymdiagram – Mass haul view</p> <p>Create surface for datum in corridor. Presents volumes for cut and fill per chainage on same row. Use this for creating Mass haul view</p>		<table border="1"> <thead> <tr> <th>Material Name</th> <th>Condition</th> <th>Quantity ...</th> <th>Cut I</th> </tr> </thead> <tbody> <tr> <td>Volumberegning</td> <td></td> <td>Earthworks</td> <td></td> </tr> <tr> <td> Eksisterende terreng</td> <td>Base</td> <td></td> <td></td> </tr> <tr> <td> Veg</td> <td>Compare</td> <td></td> <td></td> </tr> </tbody> </table>	Material Name	Condition	Quantity ...	Cut I	Volumberegning		Earthworks		Eksisterende terreng	Base			Veg	Compare																																																				
Material Name	Condition	Quantity ...	Cut I																																																																	
Volumberegning		Earthworks																																																																		
Eksisterende terreng	Base																																																																			
Veg	Compare																																																																			
<p>VEG-Skjæring & Fylling + 4 sjikt</p> <p>Skapa flate för traubunn i korridoren! Ger volymrapport med Volymberegning flere sjikt specat sektionsvis, på separata rader. Sections > Generate volume report: Volymberegning flere sjikt.xsl Sections > Add Tables > Material Volume</p>		<table border="1"> <thead> <tr> <th>Material Name</th> <th>Condition</th> <th>Quantity ...</th> <th>Cut Factor</th> <th>Fill Factor</th> </tr> </thead> <tbody> <tr> <td>Skjæring</td> <td></td> <td>Cut</td> <td>1.000</td> <td></td> </tr> <tr> <td>Fylling</td> <td></td> <td>Fill</td> <td></td> <td>1.000</td> </tr> <tr> <td> Eksisterende terreng</td> <td>Above</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Veg</td> <td>Below</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Slitelag</td> <td></td> <td>Structures</td> <td></td> <td></td> </tr> <tr> <td> Pave1</td> <td>Include</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Øvre bærelag</td> <td></td> <td>Structures</td> <td></td> <td></td> </tr> <tr> <td> Pave2</td> <td>Include</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Nedre bærelag</td> <td></td> <td>Structures</td> <td></td> <td></td> </tr> <tr> <td> Base</td> <td>Include</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Forsterkningslag</td> <td></td> <td>Structures</td> <td></td> <td></td> </tr> <tr> <td> SubBase</td> <td>Include</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Material Name	Condition	Quantity ...	Cut Factor	Fill Factor	Skjæring		Cut	1.000		Fylling		Fill		1.000	Eksisterende terreng	Above				Veg	Below				Slitelag		Structures			Pave1	Include				Øvre bærelag		Structures			Pave2	Include				Nedre bærelag		Structures			Base	Include				Forsterkningslag		Structures			SubBase	Include				
Material Name	Condition	Quantity ...	Cut Factor	Fill Factor																																																																
Skjæring		Cut	1.000																																																																	
Fylling		Fill		1.000																																																																
Eksisterende terreng	Above																																																																			
Veg	Below																																																																			
Slitelag		Structures																																																																		
Pave1	Include																																																																			
Øvre bærelag		Structures																																																																		
Pave2	Include																																																																			
Nedre bærelag		Structures																																																																		
Base	Include																																																																			
Forsterkningslag		Structures																																																																		
SubBase	Include																																																																			

<p>VEG-4 sjikt</p> <p>Ger volymrapport med Volymberegning flere sjikt specat seksjonsvis, på separata rader. Sections > Generate volume report: Volymberegning flere sjikt.xsl Sections > Add Tables > Material Volume Same as above but create also a surface for Stripping top soil.</p>		<table border="1"> <thead> <tr> <th>Material Name</th> <th>Condition</th> <th>Quantity ...</th> </tr> </thead> <tbody> <tr> <td>Slitelag</td> <td></td> <td>Structures</td> </tr> <tr> <td>Pave1</td> <td>Include</td> <td></td> </tr> <tr> <td>Øvre bærelag</td> <td></td> <td>Structures</td> </tr> <tr> <td>Pave2</td> <td>Include</td> <td></td> </tr> <tr> <td>Nedre bærelag</td> <td></td> <td>Structures</td> </tr> <tr> <td>Base</td> <td>Include</td> <td></td> </tr> <tr> <td>Forsterkningslag</td> <td></td> <td>Structures</td> </tr> <tr> <td>SubBase</td> <td>Include</td> <td></td> </tr> </tbody> </table>	Material Name	Condition	Quantity ...	Slitelag		Structures	Pave1	Include		Øvre bærelag		Structures	Pave2	Include		Nedre bærelag		Structures	Base	Include		Forsterkningslag		Structures	SubBase	Include		
Material Name	Condition	Quantity ...																												
Slitelag		Structures																												
Pave1	Include																													
Øvre bærelag		Structures																												
Pave2	Include																													
Nedre bærelag		Structures																												
Base	Include																													
Forsterkningslag		Structures																												
SubBase	Include																													


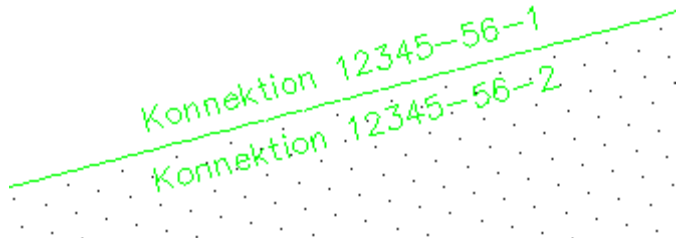
QTO Table Styles	Description	Screen grab / DWF / DWG	Default
<p>Total Volume</p>			
<p>Skjæring og fylling</p>	<p>Area, volym samt kummulert volym för Skjæring og fylling presenterat per lengdemåling</p> <p>Area, volume and acc volume for cut and fill presented per chainage</p>		
<p>Material</p>			
<p>Areal og volum</p>	<p>Area, volym samt kummulert volym för enstaka material per lengdemåling</p> <p>Area, volume and acc volume presented for one material per chainage</p>		

7.12 Plan and Profile Sheets

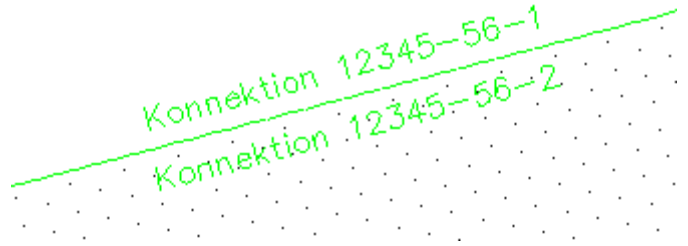
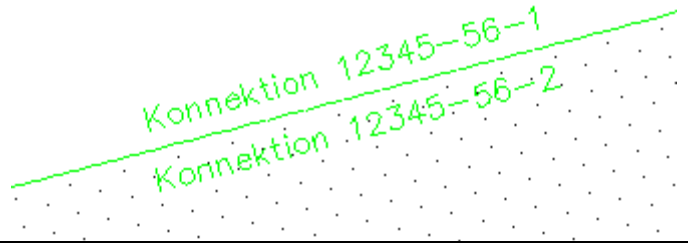
<Template file name, start a new table for each template file>

View Frame Styles	Description	Screen grab / DWF / DWG	Default
Standard			

View Frame Label Styles	Description	Screen grab / DWF / DWG	Default
Standard			

Match Line Styles	Description	Screen grab / DWF / DWG	Default
Full maskering av overlapp	Full maskering av overlapp Full masking of overlap		
Ingen maskering	Ingen maskering No masking		
Punkt-maskering av overlapp	Punkt-maskering av overlapp Dot-masking of overlap		

Match Line Label Styles	Description	Screen grab / DWF / DWG	Default
Match Line Left			

Kobling - Venstre			
Match Line Right			
Kobling - Høyre			

7.13 Survey

<Template file name, start a new table for each template file>

Network Styles	Description	Screen grab / DWF / DWG	Default
Standard	Translated standard style		

Figure Styles	Description	Screen grab / DWF / DWG	Default
Bygging	Building		
Gjerde	Fence line		
Trelinje	Tree line		
Senterlinje veg	Road center line		
Vegkant	Road edge		

7.14 General - Multipurpose Styles – Shape Styles

This group contains the general component object styles and label styles. The following needs to be noted: (Generally all styles should be included with key description about them)

Add new Shape Style to all DWTs

Name: **Multiple Boundary Material**

Display Component	Visible	Layer	Color	Linetype	LTScale	Lineweight	Plot Style
All View Directions:							
Shape Border Line	On	C-ROAD-SHAP	Blue	ByLayer	1.0000	ByLayer	NA
Shape Area Fill	On	C-ROAD-SHAP-PATT	Blue	ByLayer	1.0000	ByLayer	NA

Hatch Display Component Type	Pattern	Angle	Scale
All View Directions:			
Shape Area Fill	ANSI31	0	1.7500

8 Object Defaults

Object	Description	Default Style
General Note Label Style		
General Line Label Style		
General Curve Label Style		
Point Style		
Point Label Style		
Point Table Style		
Surface Style		
Surface Marker Style		
Surface Spot Elevation Label Style		
Surface Slope Label		
Contour Label Major		
Contour Label Minor		
Contour label User-defined		
Parcel Style		
Parcel Area Label		
Parcel Line label		
Parcel Curve Label		
Feature Line Style		
Grading		
Cut Slope Grading		
Fill Slope Grading		

9 Tool palette(s)

9.1 Subassemblies and assemblies

None

9.2 Material styles

None

9.3 Drawing symbols and (MV)Blocks

None

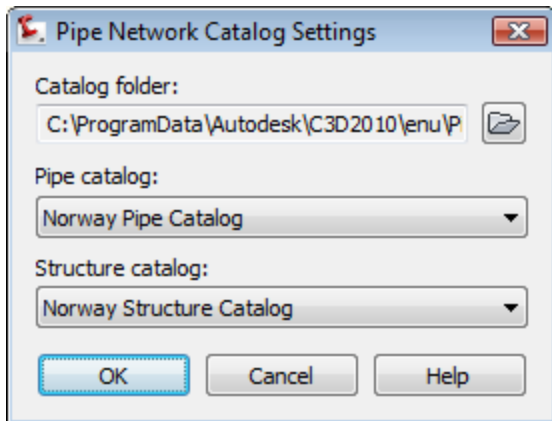
10 Pipe and Structure Catalogs

Förändringar i Pipe Catalog

Alla filer har flyttats till Norway Pipe Catalog respektive Norway Structure Catalog så nu måste man först välja den norske katalogen i kommandot Set Pipe Network Catalog.

Changes in Pipe and Structure Catalogs

Files have been moved to Norway Pipe Catalog and Norway Structure Catalog. User has to select it in command: Set Pipe Network Catalog.

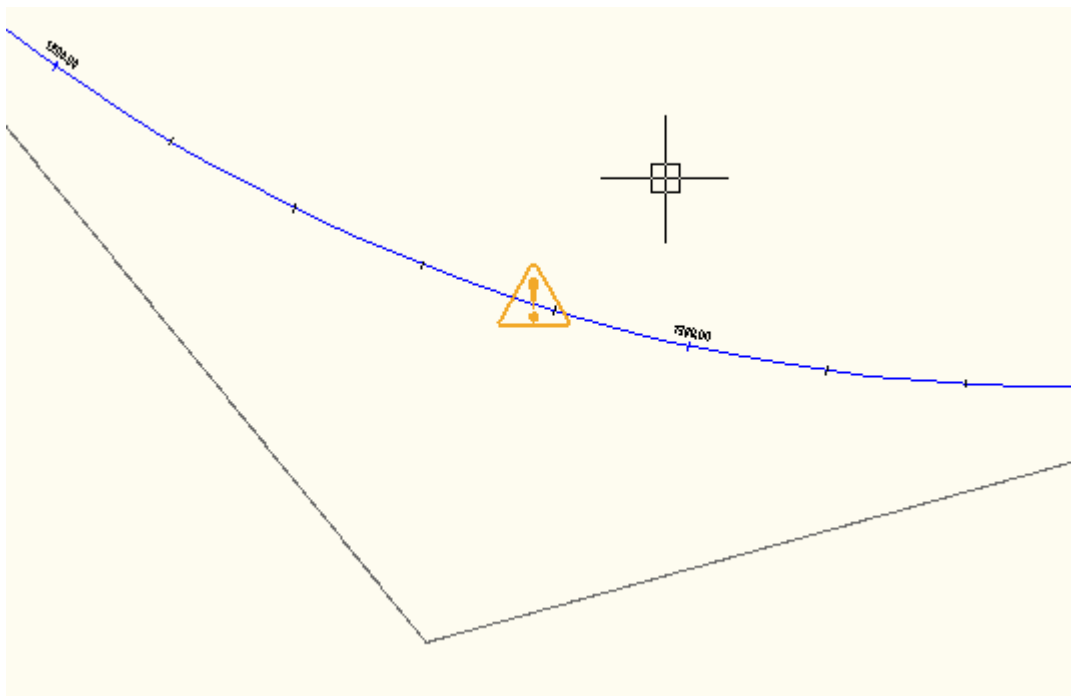


11 Highway design check files

Det finns ingen Design Criteria file framtagen for Norge. Nedan beskrivs den svenska.
There is no Design Criteria file developed for Norway. Below is the Swedish described.

För den nya funktionaliteten **Criteria Based Design** för både **Alignments** och **Profiles** finns nu en vidareutvecklad XML-fil. Den tidigare versionen innehöll funktionalitet endast för skevning. För civil 3D 2009 finns nu inställningar för horisontella radier, övergångskurvor och skevning samt för vertikala kurvor.

Inställningen för **Criteria Based Design** appliceras på en **Alignment** när man skapar den eller i **Alignment Properties**.



The screenshot shows the 'Design Criteria Editor' window for 'AutoCAD Civil 3D_Metric SWE VGU Roadway Design Standards.xml'. The interface is divided into a tree view on the left and a data table on the right.

Tree View Structure:

- Units
- Alignments
 - Minimum Radius Tables
 - VGU God standard, Tvärfall 2.5%
 - VGU God standard, Tvärfall 4%
 - VGU God standard, Tvärfall 5.5%
 - VGU Mindre god standard, Tvärfall 2.5%
 - VGU Låg standard, Tvärfall 2.5%
 - VGU Mindre god standard, Tvärfall 4%
 - VGU Låg standard, Tvärfall 4%
 - VGU Mindre god standard, Tvärfall 5.5%
 - VGU Låg standard, Tvärfall 5.5%
 - Superelevation Attainment Methods
 - Superelevation Tables
- Profiles
 - Minimum K Tables
 - Vertikalkurvor VGU God standard
 - Stopping Sight Distance
 - Headlight Sight Distance
 - GC-väg VGU God standard
 - Stopping Sight Distance
 - Headlight Sight Distance

Table Data:

Speed	Radius
50	170
70	370
90	600
110	1000

Comments:

Comments

Make file read-only

Buttons: Save and Close, Cancel, Help

12 Quantity Take Off

12.1 Overview of QTO

The QTO feature of Civil 3D “Tuckerman” is designed to create links between pay items from a DOT master pay items list and elements in the Civil 3D model. After the links are created, the QTO tools can extract the information and create reports or export the information to be used in estimation applications.

For the CK, there are four things that will be needed to make QTO work: a master pay items file, a pay items index file, a units mapping file and a series or custom report templates.

12.2 Creation of QTO

12.2.1 Master Pay Items List

The Master Pay Items List can have three formats, but the most common will be a CSV file (comma separated file) that contains three fields of information: Pay Item Number, Pay Item Description and Units. The program will use the Windows regional setting for the “List Separator” to split the file on. By default in English (US) this is a “;”.

In Swedish “;” is used as list separator

QTO-info is assigned to all pipes and structures in all parts lists. For corridors QTO is assigned to Code set style “Alla koder – QTO”. There is a QTO-file and an index file created for Swedish QTO, called “Ledningar och brunnar samt Väg.csv” and “Ledningar och brunnar samt Väg.xml”

På svenska används “;” som listseparator.

QTO-info är lagt på alla ledningar och brunnar i alla partslists samt för Korridoren i Code set style “Alla koder – QTO”. Det finns en svensk QTO-fil samt index-fil som heter “Ledningar och brunnar samt Väg.csv” and “Ledningar och brunnar samt Väg.xml”

12.2.2 Pay Items Index

The Pay Items Index file is used to categorize the Master Pay Items file from a flat list to a tree structure.

12.2.3 Units Mapping File

The Units Mapping file will map the strings for the units from the local to the system units.

Unit	Description
EA	Styck
M1	Meter
M2	Square meter

12.2.4 Reports

Reports for the QTO feature are made using HTML style sheets (.XSL) files to format the QTO output. The output will be formatted by Civil 3D using the ambient settings for the QTO command. The report will list all the QTO items found in the model for the region specified.

12.2.5 QTO Command Settings

The command settings for the QTO are used to control the output of the xml file that will be published when the user makes a quantity takeoff. The primary settings are:

Setting	Description
Linear Unit	Meter
Area Unit	Square Meter
Volume Units	Cubic Meter
Station	

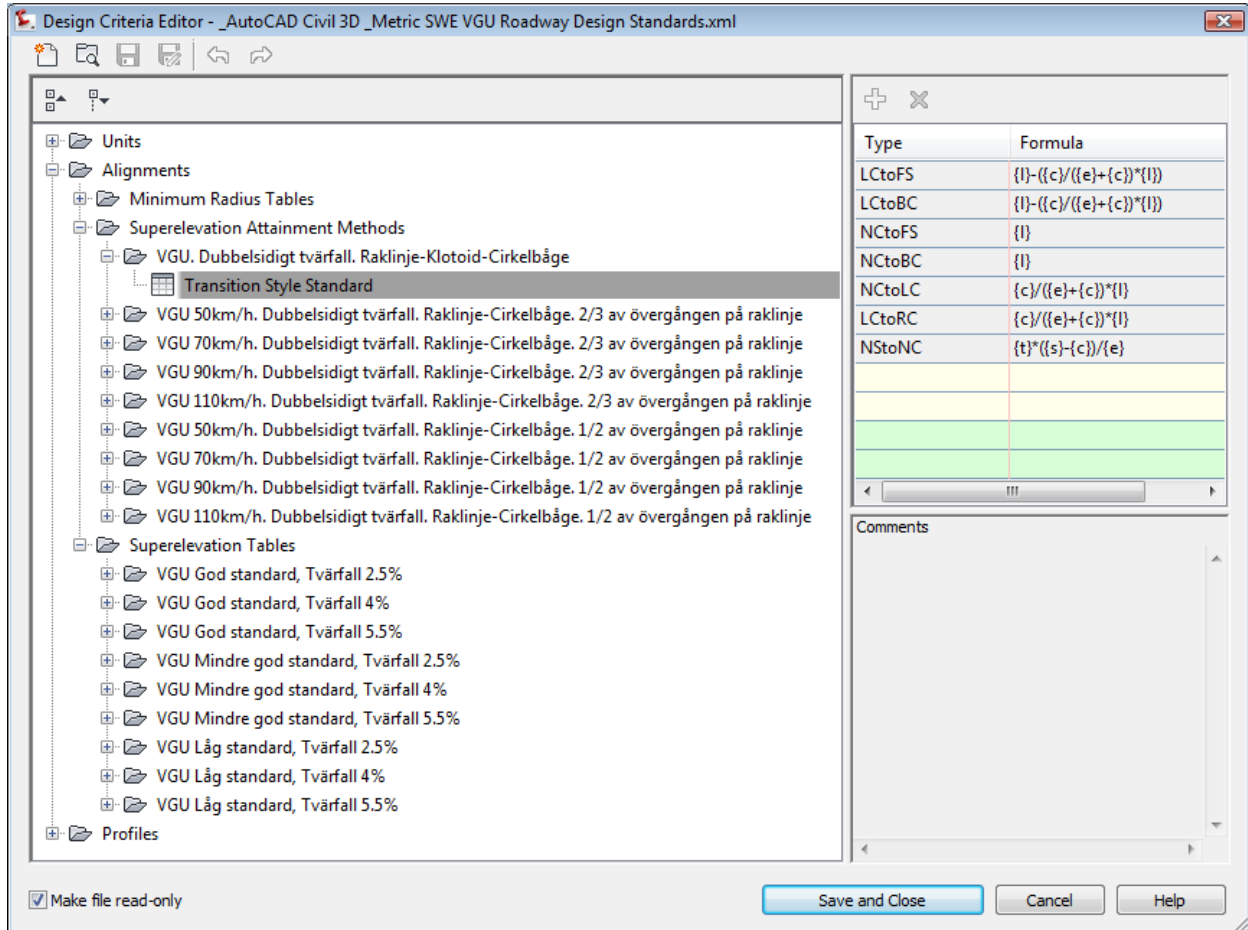
12.3 Installation of QTO

Future



See section 5.5 of content spec for information on style sheets provided to format quantity reports – provide details here of additional reports required.

13 Superelevation standards

Skevning ingår i den svenska filen för Design Standard. (Det finns ingen norsk!)

























14 Intersection feature – Styles, Names and Assembly sets

 Default Styles			
Intersection Style	Vegkryss		
Intersection Label Style	Vegkryss		
Offset Alignment Style	Veglinje - Offset		
Curb Return Alignment Style	Veglinje - Offset		
Offset Profile Style	Veg - Konstruksjon		
Curb Return Profile Style	Veg - Konstruksjon		
Offset Alignment Label Set	Vis ikke - etiketter		
Curb Return Alignment Label Set	Vis ikke - etiketter		
 Default Name Format			
Intersection Name Format	Vegkryss (<[Next Counter(CP)]>)		
Intersection Quadrant Name Format	Kvadrant<[Quadrant Location]>		
Offset Alignment Name Format	<[Parent Alignment Name(CP)]> - <[Side]> - <[Offset Value(Um P3 RN Sn OF AP)]>		
Curb Return Alignment Name Format	<[Intersection Name(CP)]> - <[Intersection Quadrant Name(CP)]>		
Offset Profile Name Format	<[Parent Alignment Name(CP)]> - <[Side]> - <[Cross Slope Value(FP P2 RN Sn OF AP)]>		
Curb Return Profile Name Format	<[Alignment Name(CP)]> - Profile		
Corridor Region Name Format	Region - <[Assembly Name(CP)]> - (<[Next Counter(CP)]>)		

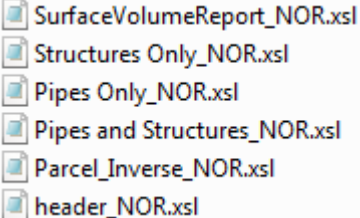
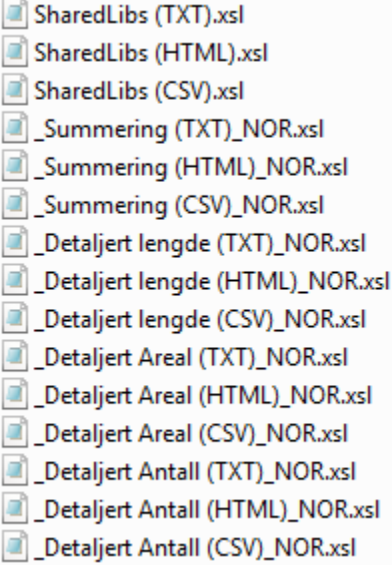
See section 5.4 of content spec for instructions on developing an assembly set for the intersection feature.

15 Installation

The following table is used to catalog all the files that are part of the CK along with a brief description, the current location and the folder where they will be installed, and if the file is added to the user cache for second and subsequent restricted rights user installation. This information will be used when the install is created for the CK.

<i>File Name</i>	<i>Description</i>	<i>Path</i>	<i>Installation Folder</i>	<i>User Cache</i>
 _Assembly Set_NOR.xml  Hovedveg - Skråning Høyre_NOR.dwg  Hovedveg - Skråning Venstre_NOR.dwg  Hovedveg gjennom vegkryss_NOR.dwg  Hovedveg halv - Skråning Høyre_NOR.dwg  Hovedveg halv - Skråning Venstre_NOR.dwg  Hovedveg komplett_NOR.dwg  sideveg halv - Skråning Høyre_NOR.dwg  sideveg halv - Skråning Venstre_NOR.dwg  sideveg komplett_NOR.dwg  Vegkrysskurver_NOR.dwg	Assemblies for intersections		Assemblies\ NOR	
	Design standard files		Corridor Design Standards\Metric	
 Ingen kategorisering_NOR.xml  Ledninger-Kummer+Veg_NOR.csv  Ledninger-Kummer+Veg_NOR.xml	QTO-files		Pay Item Data\NOR	
 Circular Pipes No  AecbIDrop.htm  AecbIDrop.xml  AeccSharedPropertyLists.xml  Autodesk Logo.jpg  default.jpg  NOR Pipes.apc  NOR Pipes.htm	Pipes main files		Pipes Catalog\ NOR Pipes	

	Pipe family files		Pipes Catalog\ NOR Pipes\Circular Pipes NO	
	Structure main files		Pipes Catalog\ NOR Structures	
	Structure family files		Pipes Catalog\NOR Structures\Structures NO	
StationFormatting.NOR.xsl	Reporting header		Quantities Report Style Sheets\scripts\NOR	
Volumberegning flera sjikt_NOR.xsl Volumberegning_NOR.xsl	Norwegian Quantity take of reports		Quantities Report Style Sheets\xsl\NOR	
GetParams.xsl GetSettings.xsl RepGenConfig.xml	Report settings files		Reports\Support	

RepGenSettings.xml				
 <ul style="list-style-type: none"> SurfaceVolumeReport_NOR.xsl Structures Only_NOR.xsl Pipes Only_NOR.xsl Pipes and Structures_NOR.xsl Parcel_Inverse_NOR.xsl header_NOR.xsl 	Norwegian reports		Reports\Support\xsl\NOR	
<p>Afkoord.dvb C3dbl.dvb Chelev.dvb Surface elevation analysis.dvb</p>	Norwegian tools		Reports\vba\NOR	
<p>afkoord.lsp BH90K.SHX c3dbl.lsp chelev.lsp mark.shx Surface elevation analysis.LSP vv.shx</p>	Swedish/ Norwegian support files, lsp and shx		Support	
 <ul style="list-style-type: none"> SharedLibs (TXT).xsl SharedLibs (HTML).xsl SharedLibs (CSV).xsl _Summering (TXT)_NOR.xsl _Summering (HTML)_NOR.xsl _Summering (CSV)_NOR.xsl _Detaljert lengde (TXT)_NOR.xsl _Detaljert lengde (HTML)_NOR.xsl _Detaljert lengde (CSV)_NOR.xsl _Detaljert Areal (TXT)_NOR.xsl _Detaljert Areal (HTML)_NOR.xsl _Detaljert Areal (CSV)_NOR.xsl _Detaljert Antall (TXT)_NOR.xsl _Detaljert Antall (HTML)_NOR.xsl _Detaljert Antall (CSV)_NOR.xsl 	QTO-reports		Takeoff Report Style Sheets	
_AutoCAD Civil 3D 2015 NOR.dwt	Template		Template	
<p>_Civil 3D Plan+Profil_NOR.dwt _Civil 3D Plan_NOR.dwt _Civil 3D Profil_NOR.dwt</p>	Plan Production Templates		Template\Plan Production	
ToolBoxCfg-NOR.xml	Toolbox config file		Toolbox	