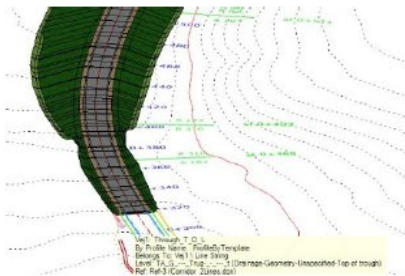


BentleyUser.DK Årsmøde November 2021

Danish OpenRoads Data Set

Marianne Rask

CAD standard



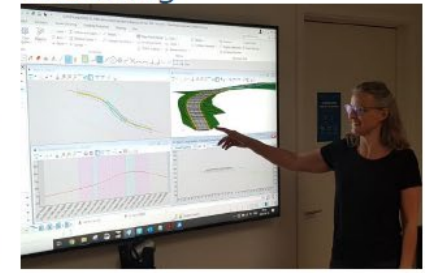
Road Safety & Accessibility



Road design & Traffic calming



Guiding & Teaching

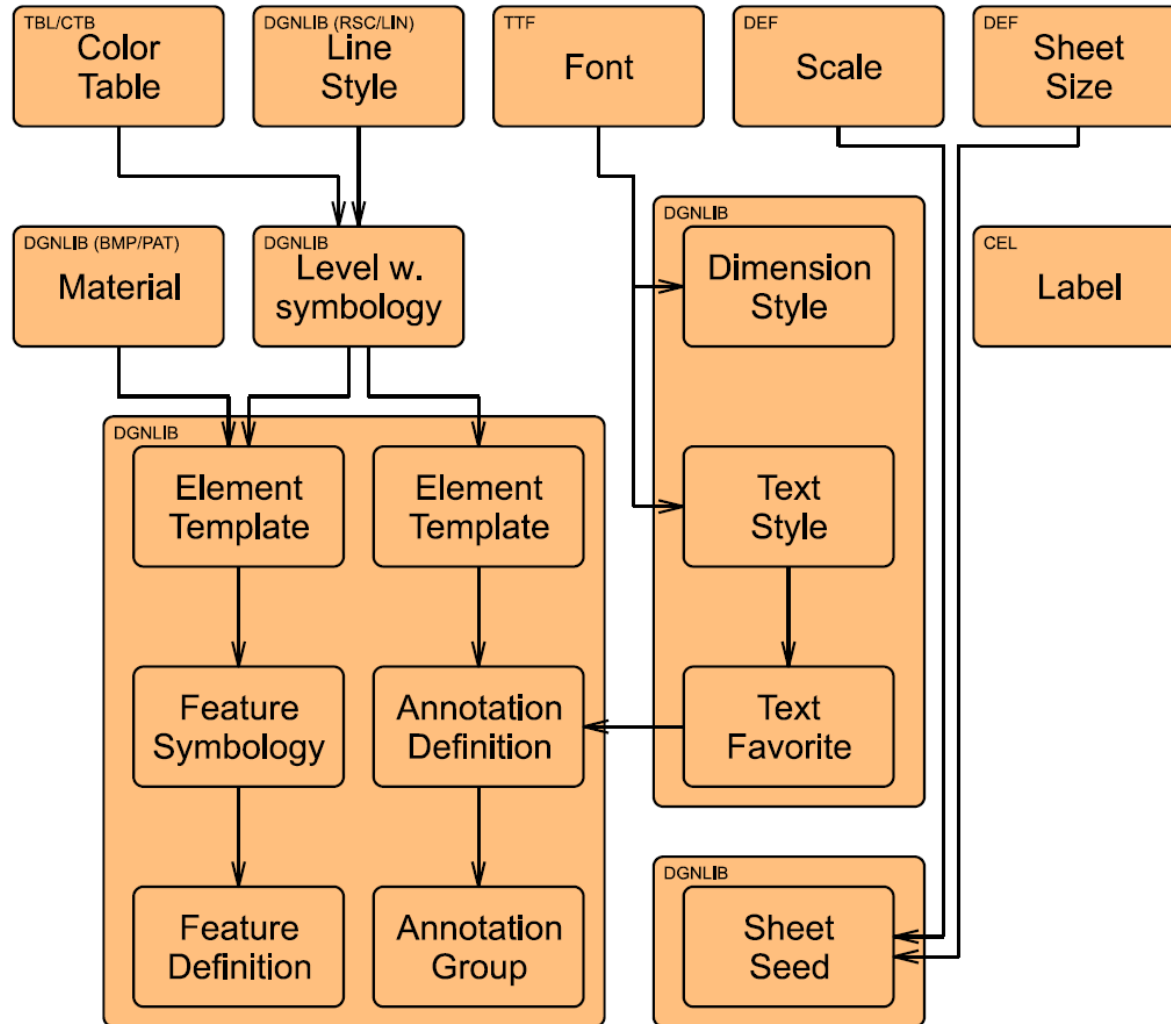


Danish OpenRoads/Rail preferences

- The August 2021 preferences are based on Update 8 and 9, but may be used in Update 10
- Updates, August 2021:
 - **Levels**
 - New and corrected **Feature Definitions**, **Feature Symbologies** and **Element Templates**
 - New **Text Favorites** and **Text Styles** for Annotation
 - Replaced **Annotation Groups** for cross section and profile
 - New **Annotation Group** for rail cross section
 - Some configuration files updated
 - New **Custom Linestyles** for Danish road stripes
 - Updated **Template library**

Display setup files – relations

- MStn



- Civil

New and updated DDA-levels

• TX - General

- TX_A_FKT_MBrn- (Membrane)
- TX_L_FRP_----- (Clearance profile, unspecified)
- TX_L_FRP_Funda (Clearance prf., foundation)
- TX_L_FRP_KnStr (Clearance prf., construction)
- TX_L_FRP_KrToj (Clearance prf., vehicle)
- TX_L_FRP_TrFik (Clearance prf., traffic)
- TX_L_FRP_Tekst (Clearance prf., text)

- Level name TX_A_FKT_Gfri- changed to TX_A_FKT_GFri- (No-dig area)

• TR – Rail

- TR_K_---_KblRn_E (Existing cable duct)

• TV – Road

- TV_G_KRN_KBK--_E (Existing pavement edge)
- TV_G_KRN_SvStn (Turn stone)
- TV_U_APT_-----_s (setting out reference)
- TV_U_APT_KtPal (Marker)

- Level description for TV_G_KRN_KtStn_FAS "chamfered kerb" changed to "Chamfered kerb"

• TK – Mapping

- TK_G_TRF_Bro--_AND (Bridge – Other road)
- TK_G_TRF_Bro--_JBN (Bridge – Railroad)
- TK_G_TRF_Bro--_MTV (Bridge – Motor traffic road)
- TK_G_TRF_Bro--_MV- (Bridge – Motorway)
- TK_G_TRF_Bro--_PRI (Bridge – Primary road)
- TK_A_TEK_KGrB- (Artificial grass field)

- Level name TK_U_TEK_SPrt- changed to TK_U_TEK_PrtI- (Sign portal)

Name	Description			
TX_-----	Generelt- 2021-08-19	<input type="checkbox"/> 7	_____ 0	_____ 0
TX_----_Tekst	Generelt-Usppecificeret-Usppecificeret-Tekst	<input type="checkbox"/> 7	_____ 0	_____ 1
TX_-_INF_-----	Generelt-Usppecificeret-Information-Usppecificeret-Information	<input type="checkbox"/> 7	_____ 0	_____ 0
TX_-_INF_AfSl-	Generelt-Usppecificeret-Information-Afslutning	<input type="checkbox"/> 7	_____ 0	_____ 1
TX_-_INF_FrPrf	Generelt-Usppecificeret-Information-Fritrum...	<input checked="" type="checkbox"/> 8	_____ 0	_____ 1
TX_-_INF_HenVs	Generelt-Usppecificeret-Information-Henvisning	<input type="checkbox"/> 7 1	_____ 1
TX_-_INF_Hjalp	Generelt-Usppecificeret-Information-Hjælpel...	<input checked="" type="checkbox"/> 1	_____ 0	_____ 1

Feature Definitions

- New and changed Feature Definitions, Feature Symbolologies and Element Templates
 - An overview of the changes - as a text in the dgnlib
 - An overview of all current FD, FS og ET - in the Documentation folder

2021-08-18 / VEX

Changed Element Template:

Modeling > Template Points > Clearance profile > TL_Clearance_Construction (Lv=TX_L_PRF_KnStr) replaced by
 Modeling > Components > Clearance profile > TC_Clearance_Construction (lv=TX_L_FRP_KnStr, Transp=50, Mat=Plastic - offwhite)
 Modeling > Template Points > Clearance profile > TL_Clearance_Foundation (Lv=TX_L_PRF_Funda)replaced by
 Modeling > Components > Clearance profile > TC_Clearance_Construction (lv=TX_L_FRP_Funda, Transp=50, Mat=Shiny gray plastic)

New Element Template:

Modeling > Components > Clearance profile > TC_Clearance_Traffic (lv=TX_L_FRP_TrFik, Transp=50, Mat=Plastic - offwhite)

Changed Feature Symbology:

Linear > Template Points > Clearance profile > TL_Clearance_Construction (ET=TL_Clearance_Construction) replaced by
 Surface > Modeling > Clearance profile > TC_Clearance_Construction (ET=TC_Clearance_Construction)
 Linear > Template Points > Clearance profile > TL_Clearance_Foundation (ET=TL_Clearance_Foundation) replaced by
 Surface > Modeling > Clearance profile > TC_Clearance_Foundation (ET=TC_Clearance_Foundation)

New Feature Symbology:

Surface > Modeling > Clearance profile > TC_Clearance_Traffic (ET=TC_Clearance_Traffic)

Changed Feature Definitions:

Linear > Template Points > Clearance profile > TL_Clearance_Construction (FS=TL_Clearance_Construction) replaced by
 Mesh > Clearance profile > TC_Clearance_Construction (FS=TC_Clearance_Construction)
 Linear > Template Points > Clearance profile > TL_Clearance_Foundation (FS=TL_Clearance_Foundation) replaced by
 Mesh > Clearance profile > TC_Clearance_Foundation (FS=TC_Clearance_Foundation)

New Feature Definition:

Mesh > Clearance profile > TC_Clearance_Traffic (FS=TC_Clearance_Traffic)

2021-08-25 / VEX

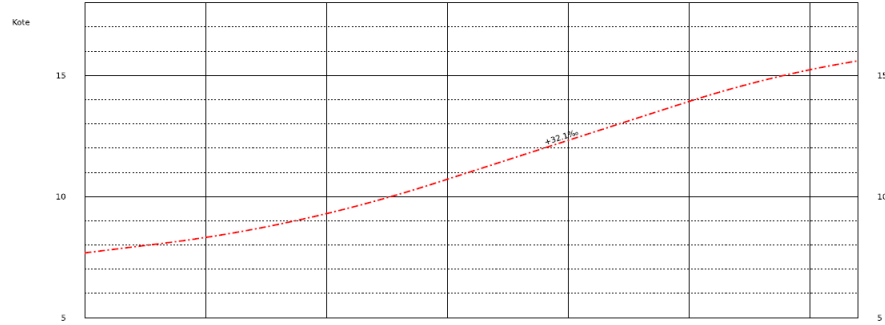
New Annotation Group:

Profile > Drawing > DK_Profile_Road_5000 (Intervals corresponding to 1:5000)

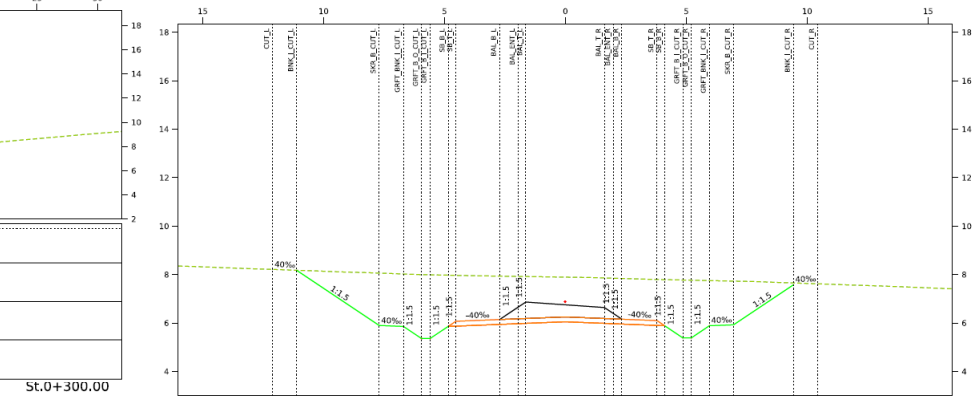
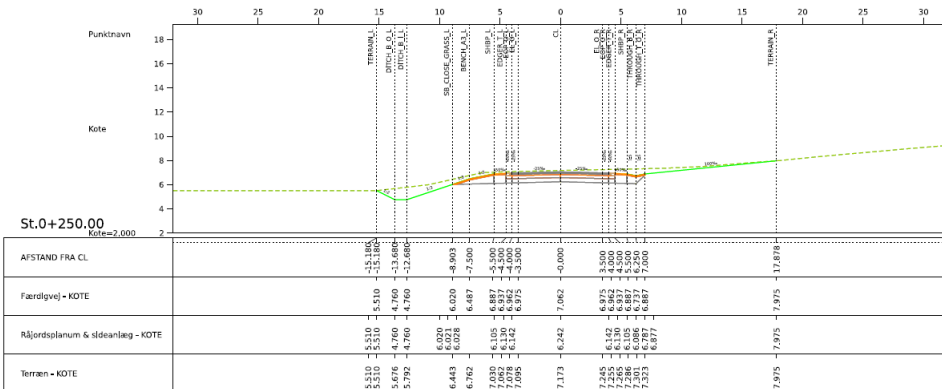
Base Element Symbology												
Template Path	Template Name	Level	Color Type	Color Number	Color RGB	Line Style	Line Weight	Class	Transparency	Priority	LS Sc	
71 \Annotation\Sheets\XS\	Draft_XS_Volume	TX_L_INF_---	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
72 \Annotation\Sheets\XS\	Draft_XS_Volume_Annotation	TX_L_INF_Annot	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
73 \Linear\Alignment\	Geom_Baseline	TX_L_---_CL_--	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0			500	
74 \Linear\Alignment\	Geom_Baseline Curves	TX_L_---_CL_--_C	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
75 \Linear\Alignment\	Geom_Baseline Lines	TX_L_---_CL_--_L	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
76 \Linear\Alignment\	Geom_Baseline Spirals	TX_L_---_CL_--_TC	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
77 \Linear\Alignment\	Geom_Baseline Driveway	TX_L_---_CL_--_1	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
78 \Linear\Alignment\	Geom_Baseline Ramp	TX_L_---_CL_--_3	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
79 \Linear\Alignment\	Geom_Baseline Secondary	TX_L_---_CL_--_2	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
80 \Linear\Alignment\	Geom_Crossing	TR_H_OBG_Spor-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0			500	
81 \Linear\Alignment\	Geom_Crossing Curves	TR_H_OBG_Spor-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0			500	
82 \Linear\Alignment\	Geom_Crossing Spirals	TR_H_OBG_Spor-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0			500	
83 \Linear\Alignment\	Geom_Temp	TX_L_---_CL_--_5	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
84 \Linear\Alignment\	Geom_Turnout	TR_H_OBG_SpS-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0			500	
85 \Linear\Alignment\	Geom_Turnout Curves	TR_H_OBG_SpS-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0			500	
86 \Linear\Alignment\	Geom_Turnout Spirals	TR_H_OBG_SpS-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0			500	
87 \Linear\Bridge\	Bridge_Abutment	TB_K_VED_Elem-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
88 \Linear\Bridge\	Bridge_Beam	TB_K_BUL_Elem-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				
89 \Linear\Bridge\	Bridge_Bearing	TB_K_---_Elem-	ByLevel	ByLevel	[0,0,0]	ByLevel	ByLevel	0				

Drawing setup

- New Element Templates, Text Favorites and Text Styles for Annotation
- New Annotation Groups
 - DK_Profile_Road
 - DK_Profile_Road_5000
 - DK_XS_Road
 - DK_XS_Rail



Station	Færdigvej	Eksist. terræn	Afgravning/påfyldning	Længdeprofil	Kurvebånd
0+300	7.67	9.99	0.00		
0+310	7.00	9.99	0.00		
0+320	7.92	9.99	0.00		
0+330	8.04	9.99	0.00		
0+340	8.17	9.99	0.00		
0+350	8.31	9.99	0.00		
0+360	8.46	9.99	0.00		
0+370	8.65	9.99	0.00		
0+380	8.85	9.99	0.00		
0+390	9.06	9.99	0.00		
0+400	9.30	9.99	0.00		
0+410	9.54	9.99	0.00		
0+420	9.81	9.99	0.00		
0+430	10.09	9.99	0.00		
0+440	10.39	9.99	0.00		
0+450	10.71	9.99	0.00		
0+460	11.03	9.99	0.00		
0+470	11.35	9.99	0.00		
0+480	11.67	9.99	0.00		
0+490	12.00	9.99	0.00		
0+500	12.32	9.99	0.00		
0+510	12.64	9.99	0.00		
0+520	12.96	9.99	0.00		
0+530	13.28	9.99	0.00		
0+540	13.60	9.99	0.00		
0+550	13.92	9.99	0.00		
0+560	14.23	9.99	0.00		
0+570	14.51	9.99	0.00		
0+580	14.77	9.99	0.00		
0+590	15.01	9.99	0.00		
0+600	15.23	9.99	0.00		
0+610	15.43	9.99	0.00		
0+620	15.60	9.99	0.00		



Danish road stripes

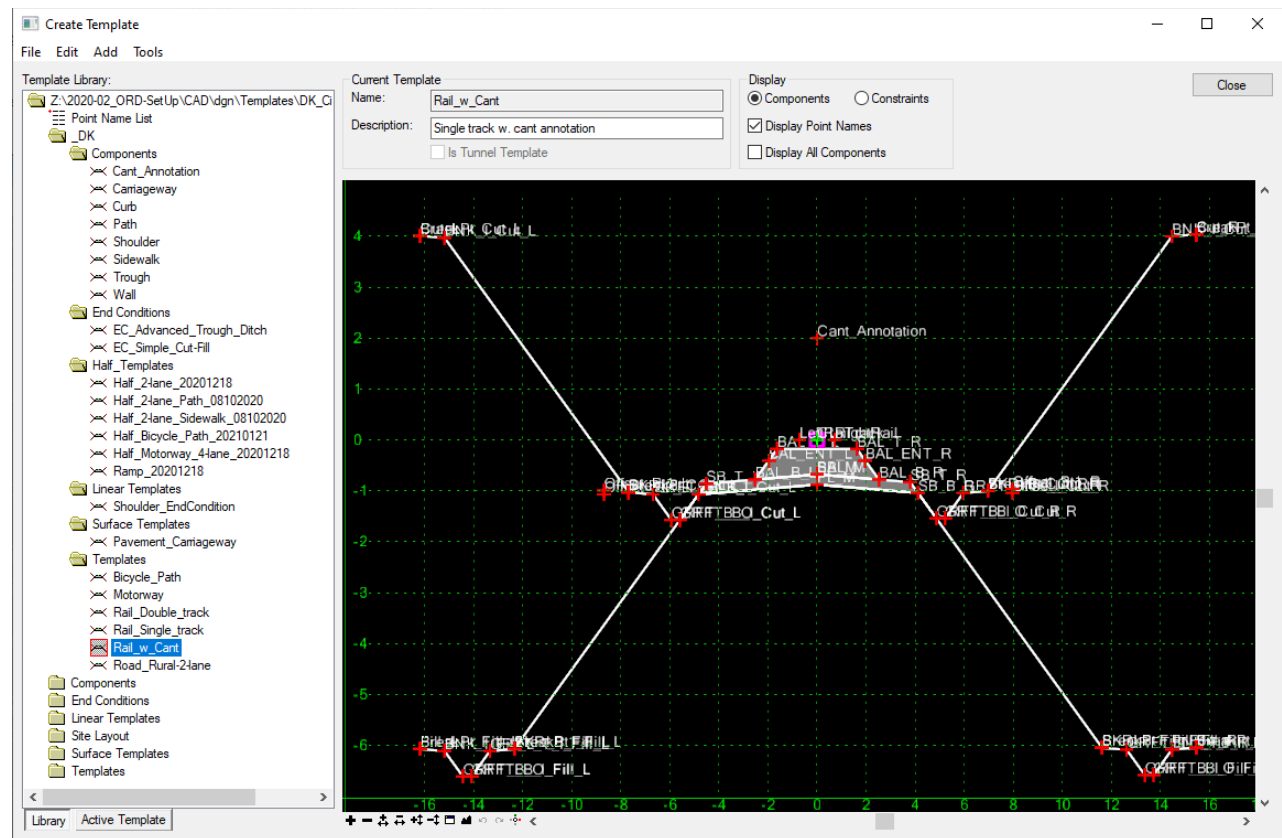
- Custom Linestyles for road stripes from Bentley and Cowi
 - The stripes should not be scaled with Annotation Scale



- Cowi have fixed UDSTYR.RSC and released it for all =>
- New DK_RoadMarking.dgnlib in the preferences

Template ITL

- Minor errors corrected (superelevation flag, constraints)
- New Templates and Components
- Everything in the _DK folder uses recommended Feature Defs and names





OpenRoads Designer

OpenRoads Designer is the software of choice for infrastructure design. Design projects such as roadways, interchanges, roundabouts, water and sewer facilities, land development and more with ONE application. OpenRoads Designer includes everything you need for plan and construction documentation, surveying, stormwater design and analysis, visualization, geotechnical, underground utilities and so much more. Discover how OpenRoads Designer can help you create better designs, faster on your next project.

Generation	Version	Language	Architecture	Deliverable Type	Subscription Entitlement i
CONNECT Edition v	10.10.01.03 v	-Select- v	x64 v	Data Set v	-Select- v
					<input type="button" value="Apply"/> <input type="button" value="Clear"/>

>

OpenRoads Designer CONNECT Edition Dataset x64 (French) i

Version:10.10.01.03 Date:09/07/2021 Size:496 MB System Requirements

>

OpenRoads Designer CONNECT Edition Dataset x64 Denmark (English) i

Version:10.10.01.03 Date:09/07/2021 Size:117 MB System Requirements

OpenRoads Designer dansk data

[View](#)
[Deltagerliste](#)
[Edit](#)
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- Download** >
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 - InRoads
 - OpenRoads**
 - Standarder for OpenRoads Designer
- Referater
- Dokumenter
- Links

OpenRoads Designer materiale

Hvis man er logget ind, kan man herfra downloade standarder, der passer til MicroStation Connect og OpenRoads Designer CE.

Forslag og ønsker til ændringer sendes enten til Civil SIG formanden eller ved at lægge en kommentar nedenfor.

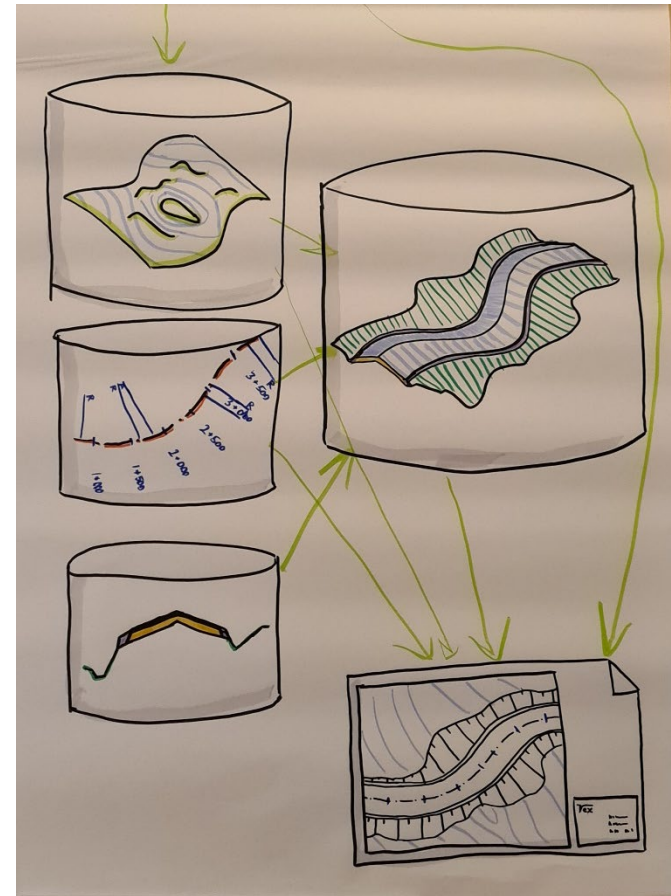
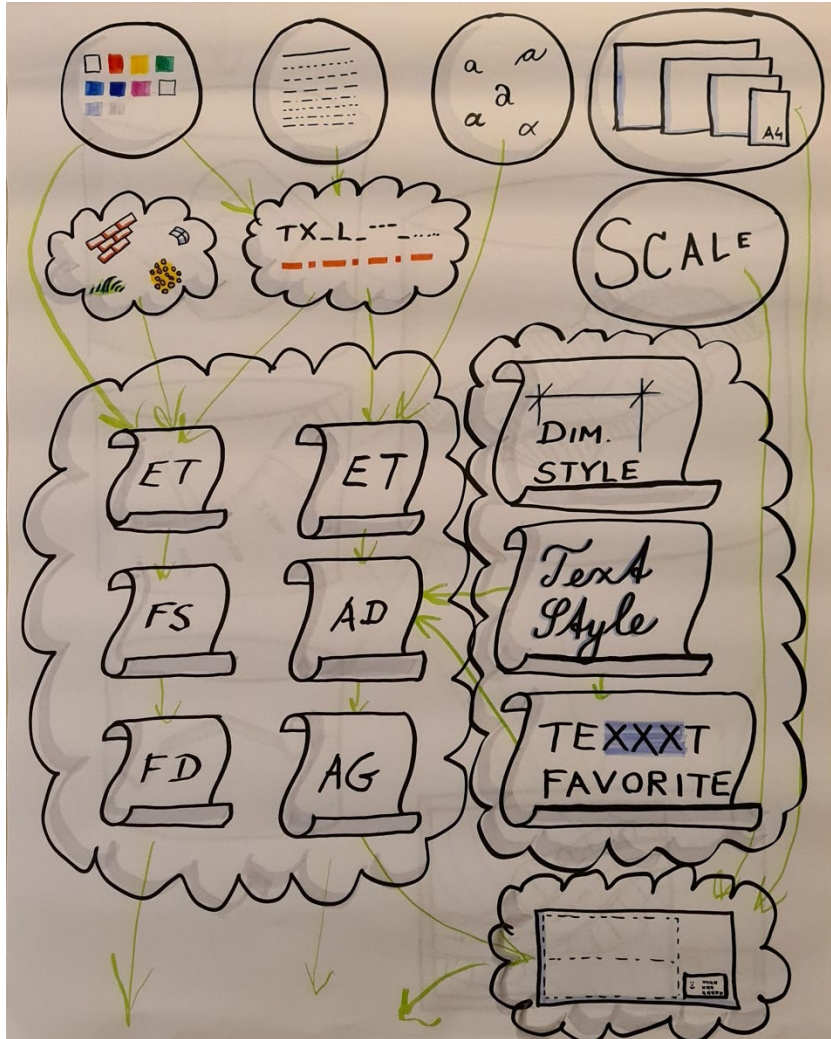
2021-08-30:

Den nuværende pakke passer til OpenRoads Designer Update 9 (2020 Release 3, V10.09) og Update 10 (2021 Release 1, V10.10). Pakken kan også bruges til ren MicroStation CONNECT.

Siden Bentleys Country Kit for Denmark fra juni 2020, december 2020 og marts 2021 er enkelte filer opdateret. Se hvilke, ved at tjekke datoen i filoversigten.

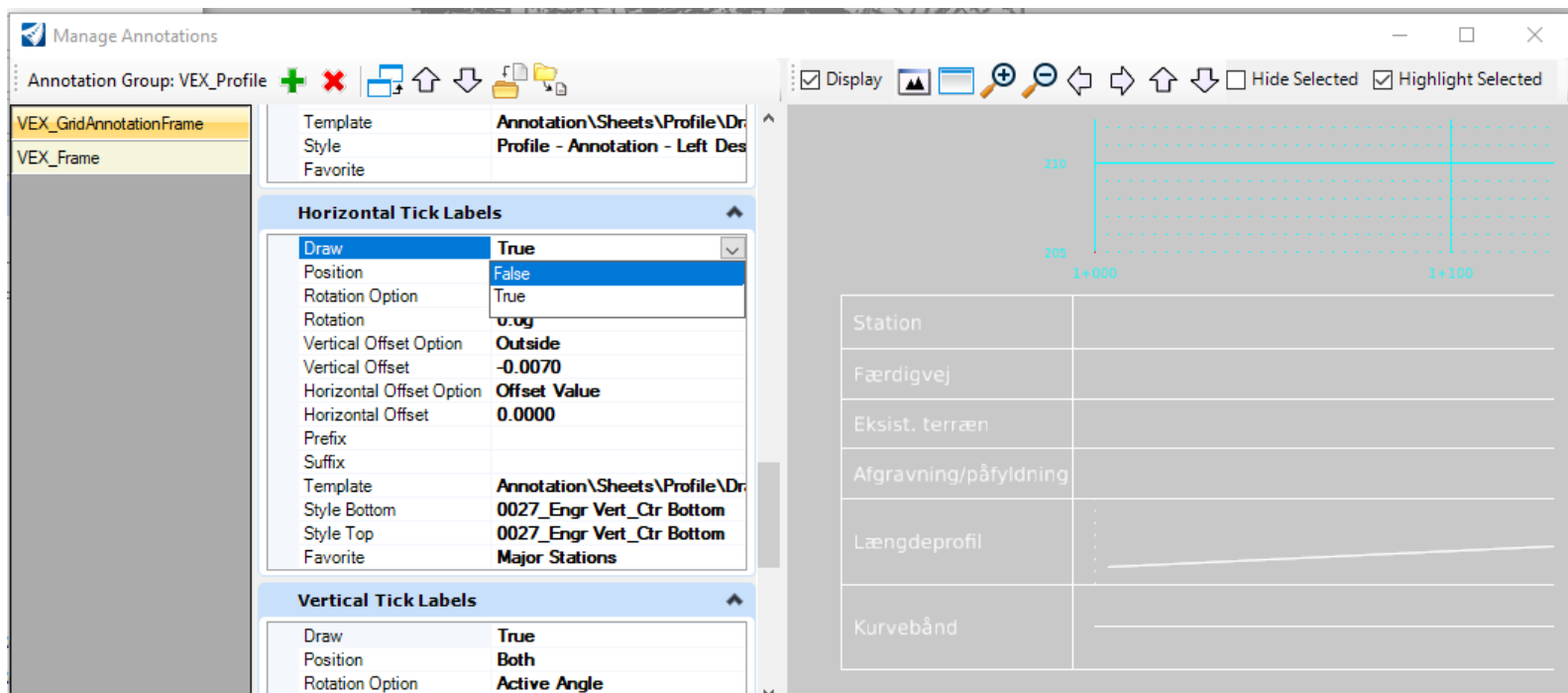
Attachment	Size
Danish dataset for ORD (Update 9 (may also be used in later Updates)) - 2021-08-30	118.49 MB
List of files in the Danish dataset for ORD Update 9 - 2021-08-30	121.15 KB

Display setup files – civil models and drawings



How to create a new Annotation Group

- Copy an Annotation Group, rename and modify it ([YouTube](#) 8 min.)
- Create a new dgnlib ([YouTube](#) 5 min.)



Wishing list for next Danish Dataset 2022

- Going through all new functions since Update 8 (Aquaplaning etc.)
- Going through updated Display Styles, cells, Features etc.
- Changing font back to Arial
- Smarter Named Boundary drawing setup (sheet seeds, sheet borders etc., texts)
- Rail
- SUDA/SUE/Drainage and Utilities Features
- Road signs

- ...maybe something about Item Types?

- ... more?

Questions?

- www.vex-consult.dk



Services

References

Reference projects

Publications

News

Contact



CONTACT

Marianne Rask

+45 20 36 20 14

MR@vex-consult.dk