

CONNECT Edition Configuration

Paul Cusack, Bentley Systems



Agenda

- MicroStation CONNECT Configuration
- OpenRoads Designer ANZ Design Configuration
- Review of OpenRoads Configuration Bulk Editing Migration Utilities



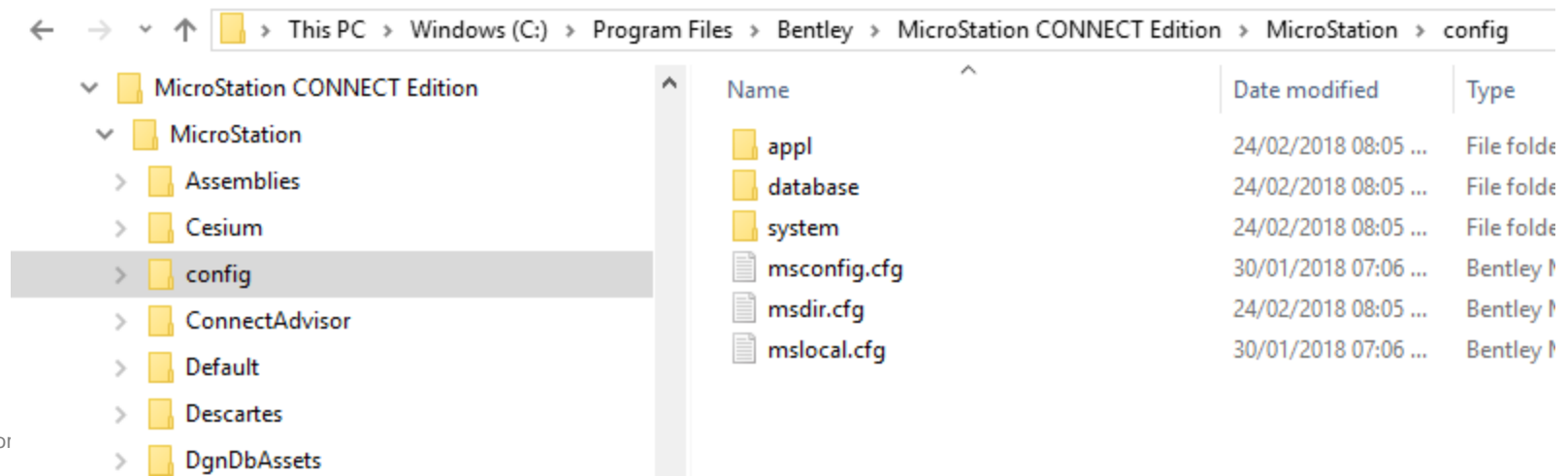
Upgrading to MicroStation CONNECT Edition

Paul Cusack, Bentley Systems



Just the Basics ...

- Configuration files are simple text files
 - Execution starts at mslocal.cfg
 - generated at install time
 - includes msdir.cfg, which identifies the MicroStation directory
 - Then includes msconfig.cfg which is the main show
- MSCONFIG.CFG
 - Completely reorganized, in-line documentation explains what it does
 - Don't change it!



Level Changes in the CONNECT Configuration

V8i:

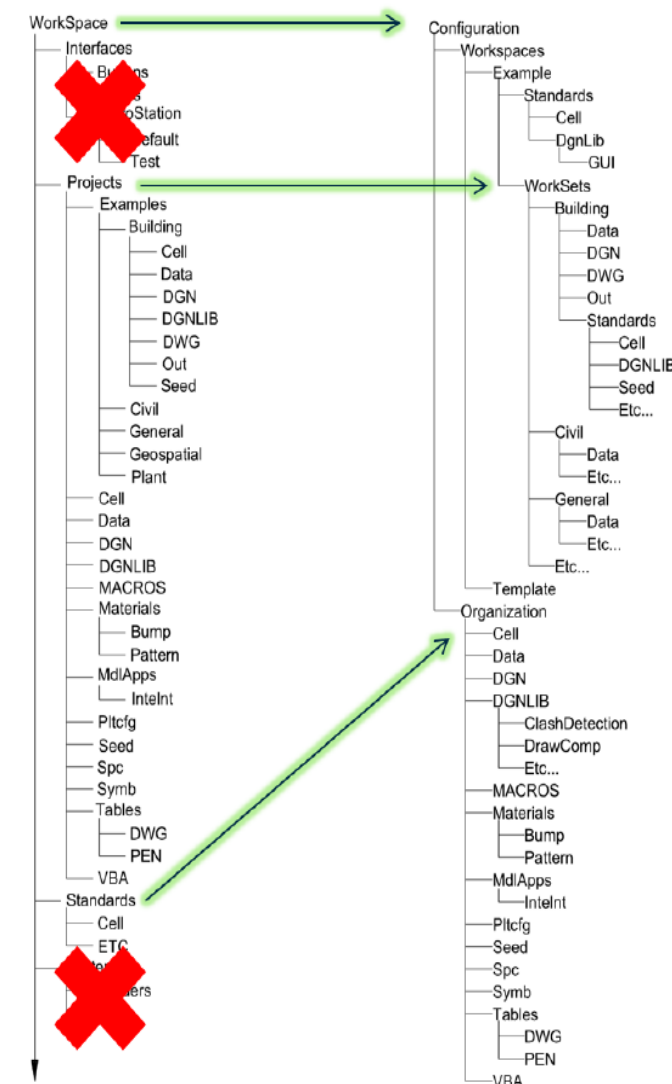
System
Application
Site
Project
User

CONNECT:

System
Application
Organization
WorkSpace
WorkSet
Role
User

Changes to the V8i WorkSpace

- New Folder Structure, Levels, Variables and Files
- System is moved to Program Files and becomes Default
- Interfaces removed
- Standards renamed to Organization and moved
- Two new Levels added: WorkSpace and Role





MicroStation Workspace Migration

Retain

DGNLIBs
Seed Files
Cell Libraries
Line Styles
Text Styles
Dimension Styles
Symbol Styles
Element Templates

Modify

VBA
MDL
Scripts
GUI
Custom Tools

New

Configuration Variables
Worksets
Workspace Terminology
& Structure

No Longer Supported

MicroStation Basic
UCMs

Just the DGNLIBs

- Seed Models
 - Design Model
 - Drawing Model
 - Sheet Model
- Levels
 - Level Definitions
 - Level Filters
- Annotation
 - Text Styles
 - Notes Styles
 - Dimension Styles
 - Detailing Symbol Styles
 - Table Seeds
 - Report Definitions
 - Label Cells
 - Text Favorites
- Viewing
 - Saved Views
 - Display Styles
 - Named Boundaries
 - Drawing Boundaries
 - Display Styles
 - Display Rules
 - DWG Wireframe
 - Display
- User Interface Customizations
 - Ribbon Workflows
 - Tabs, Groups, etc.
 - Quick Access Toolbar
 - Tools and Tool Boxes
 - Context Menus (right-click)
 - Popup Menus
 - Icons
 - Screen Menus
- Templates
 - Element Templates
 - Terrain Models (included here)
- Named Expressions
 - Named Expressions
- Rendering
 - Render Settings
 - Lighting
 - Materials
 - Environments
 - Populate Contents
 - Vehicle Library
- Other Settings
 - Cells
 - Color Books
 - Print Styles and Definitions
 - Project Explorer Link Sets
 - Standards Checker Settings
 - Markup Settings
 - Standards Checker Batch Processor Jobs
 - Custom Line Style Definitions
 - Multi-Line Styles
 - Properties
 - Item Types
 - Link Sets

Migrating Personal Files

- Allows users local customization of several personal settings
- *C:\Users\FIRST.LASTNAME\AppData\Local\Bentley\MicroStation\X.x.x\prefs*
- The important ones:
 - Personal.dgnlib
 - Personal.ucf
 - Personal.upf

Bentley LEARN content

- MicroStation CONNECT Edition Upgrade for CAD Managers

MicroStation CONNECT Edition Upgrade for CAD Managers - Configuration III

MicroStation CONNECT Edition is the newest generation of Bentley's MicroStation CAD software. This edition of MicroStation provides many exciting new features and enhancements intended to make users mo... [More»](#)

▼ Find Training (3)

MicroStation CONNECT Edition Upgrade for CAD Managers - Design, Drawing and Sheet Composition III

This course is built with the CAD Manager in mind. It walks through the steps of using the various tools, technologies and concepts that generate drawings and sheets in the MicroStation CONNECT Editio... [More»](#)

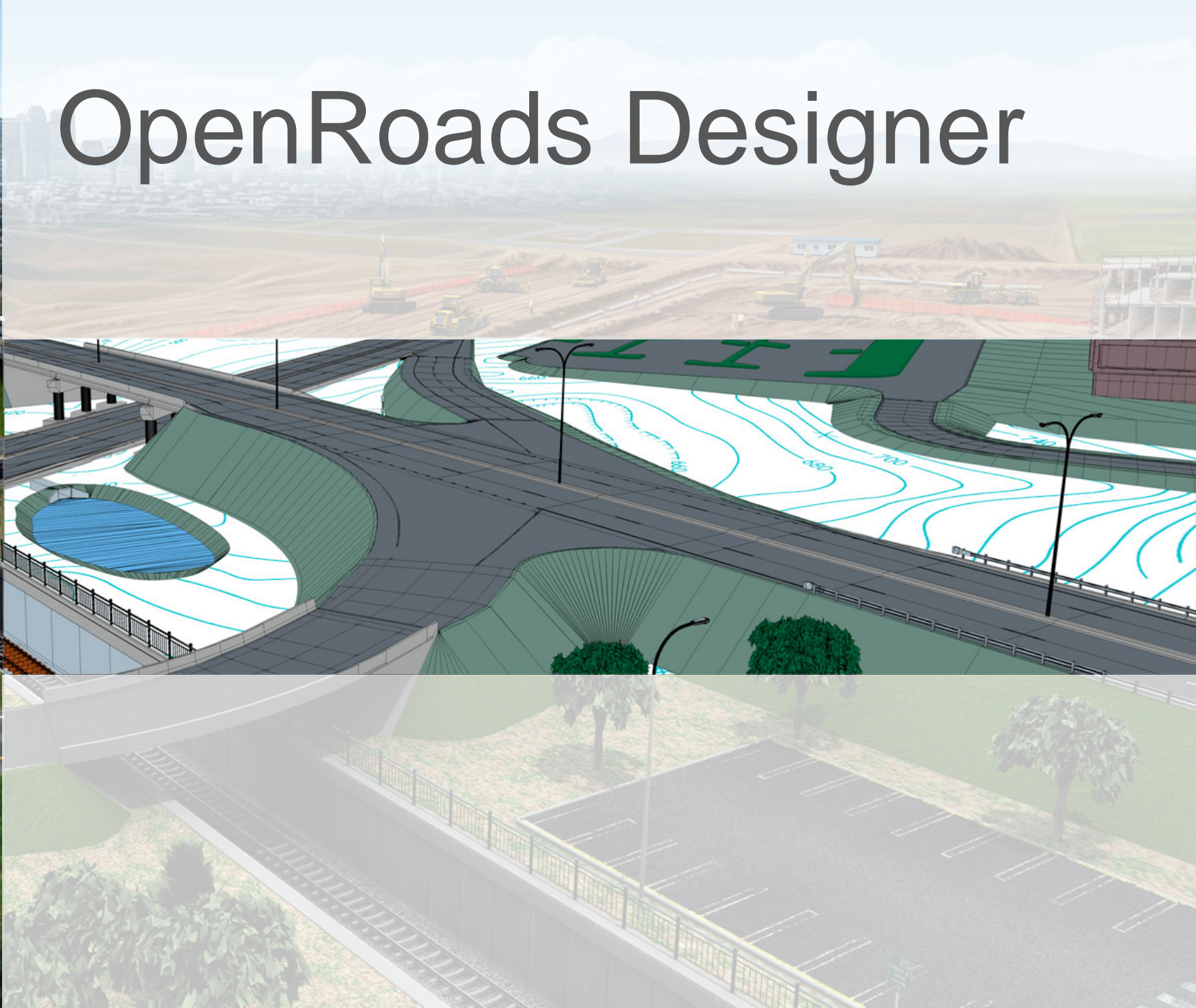
► Find Training (2)

MicroStation CONNECT Edition Upgrade for CAD Managers - DGNLib's III

The design library file does for various critical design settings what a cell library does for often-used drawing symbols. By centralizing parameters such as level definitions, text styles, and dimens... [More»](#)

► Find Training (2)

OpenRoads Designer



ANZ Design Configuration

- ANZ = Australia and New Zealand
- Developed in collaboration with representatives and early adopters from:
 - RMS
 - vicroads
 - MRWA
 - Beca
 - Arcadis
 - WSP
 - Bentley Systems
- Includes workspaces for:
 - RMS
 - vicroads
 - MRWA
 - NZ
 - PTV

ANZ Design Configuration for Users




- Workspaces and Workset
- Seed Files
- Levels and level filters
- Line Styles
- Cells
- Element Templates
- Feature Definitions
- Design Standards
- Sight Distance
- Template Library
- Superelevation
- Curve Widening
- Civil Cells
- Reports
- Control Features (switch parametric constraint)
- Aquaplaning reports
- Graphical Filters
- Subsurface utilities
- Function Keys and GUI Customisations (context menu)
- Display styles
- Text Styles, Text Favorites
- Labels
- Drawing Scales
- Sheet Seeds
- Plan, Profile and Cross Section Annotation
- Sheet Borders
- Macros

Where to get the ANZ Configuration?

OpenRoads Designer (General Availability)

OpenRoads Designer is a new application that replaces the capabilities in InRoads, GEOPAK, MX, PowerCivil for Civil, and GeoMacao product lines with a single offering. OpenRoads Designer is built on O... [More](#)

▼ All Downloads

		Product Download	Version	Date	Size	Download
▶	<input type="checkbox"/>	OpenRoads Designer CONNECT Edition Dataset x64 United Kingdom (English)	10.07.00.56	04/30/2019	99 MB	
▼	<input type="checkbox"/>	OpenRoads Designer CONNECT Edition Dataset x64 Australia (English)	10.07.00.56	04/29/2019	105 MB	
Dependencies						
	<input type="checkbox"/>	OpenRoads Designer CONNECT Edition x64 (CL) (English)	10.07.00.56	03/25/2019	1 MB	

ANZ Workspaces

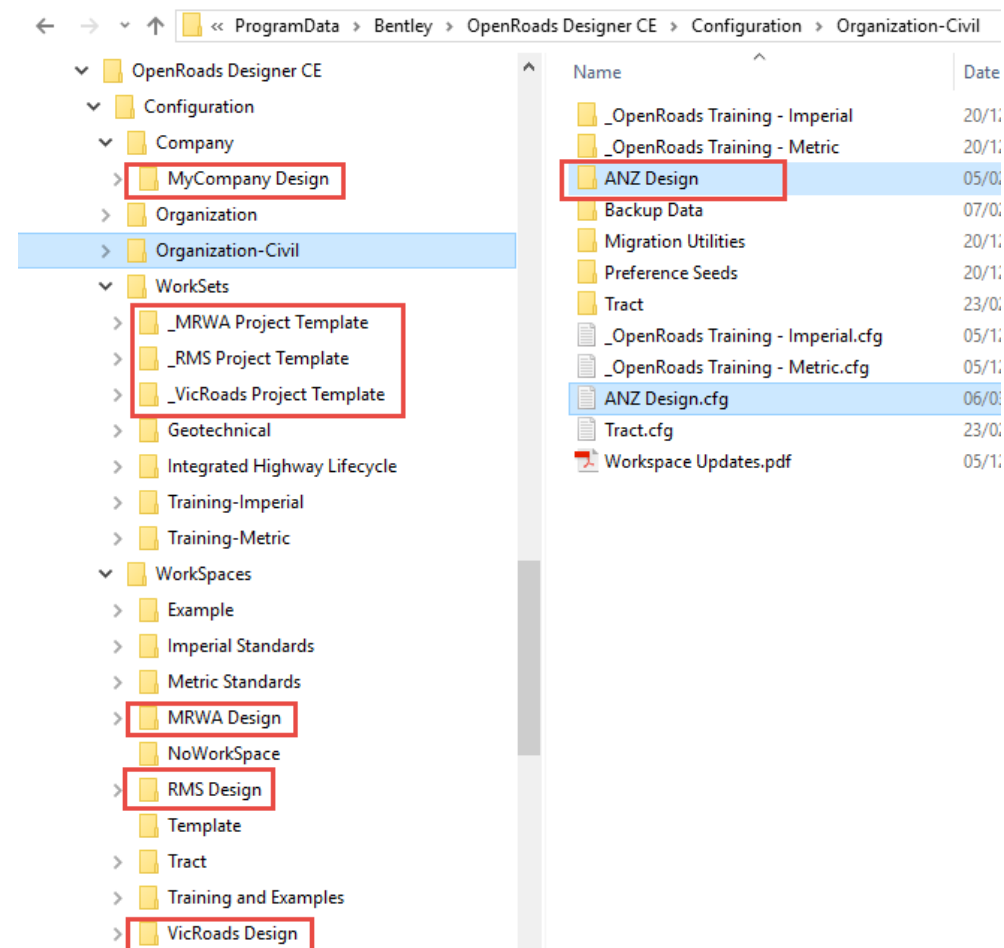
Product Install

ANZ Design Configuration for Administrators

- ANZ Configuration Areas
 - ANZ Design
 - Workspaces
 - MyCompany Design
 - Worksets
- Deploying Configuration to Network
 - Copying to a server
 - Redirecting local machines to network
- Template Library (using and loading from workset)
- Sheet Borders

ANZ Configuration levels / areas

- ANZ Design
 - applies always when using RMS,vicroads or MRWA
 - most configuration exists here
- WorkSpaces
 - RMS Design, Vicroads Design & MRWA Design
 - Road authority specific standards
- MyCompany Design
 - applies always when using RMS,vicroads or MRWA
 - Rename to your company name and include your company standards
 - Edit WorkspaceSetup.cfg to point to your company name CFG
- WorkSets
 - Create new for each new project
 - Can include project specific standards



ProjectWise Managed Workspaces

Bentley Communities

Welcome Products Support About

Product Communities

GEOPAK | InRoads | MX | OpenRoads > GEOPAK | InRoads | MX | OpenRoads Wiki

Wiki Forum Blog Files Ideas

line style scale factor will apply on Custom Linestyles

Video: How-To Deploy a ProjectWise Managed WorkSpace

Video: Offline Installer of OpenRoads Designer when download OpenRoads Designer in One Folder.

Where can I change black canvas background in OpenRoads Designer

Where is Help in OpenRoads Designer?

Wiki: How to copy feature definitions from one dgnlib to another in project explorer in OpenRoads Designer ?

Wiki: How to sync ProjectWise Explorer or Check-in option in the file menu to update the server copy dgn on ProjectWise Explorer

Wiki: How to truncate the Path Length to see File name and type 2D & 3D dgn at the top of the window

Wiki: OpenRoads Designer: Annotate Alignment Automatically

Video: How-To Deploy a ProjectWise Managed WorkSpace

Product(s):	OpenRoads Designer
Version(s):	10.03.00.43+
Area:	WorkSpace Development
Original Author:	Holly Herring, Bentley Technical Support Group

This video series follows this document:
https://communities.bentley.com/products/road___site_design/m/road_and_site_design_gallery/273051.

This article is referenced in the videos:
https://communities.bentley.com/products/road___site_design/w/road_and_site_design_wiki/36648/how-to-create-a-customized-network-workspace-environment.

Click the videos below to play. To view in fullscreen mode, first click the YouTube link at the bottom of the video to launch the video on the YouTube site. Then, click the fullscreen button (rightmost button at bottom of video).

Recorded in 1280 X 720 resolution.

Step 1: Import Configuration data files into PW

How-To Deploy a ProjectWise Managed WorkSpace (Step 1)

Managed Configuration Import Wizard

Import and Validate ProjectWise Folder Structure and Documents

You can use an existing workspace to ProjectWise Explorer. When you click "Validate", all subfolders and files underneath the source directory will be compared to subfolders and documents of their ProjectWise targets. You can select data to ProjectWise before continuing by selecting a mapping in the Mapping list and clicking "Copy".

Local File System

ProjectWise

Questions about this article, topic, or product? Click here.

ORD PW Managed WorkSpace Deployment Guide.pdf - Adobe Acrobat Pro DC

File Edit View Window Help

Home Tools ORD PW Managed ... x

1 / 29

OpenRoads CE Deployment Guide ProjectWise Managed Configuration

OpenRoads Designer CE Deployment Guide: ProjectWise Design Integration Managed Configuration

Version 2 – June 2018

OpenRoads Designer CONNECT Edition (CR2) with ProjectWise CONNECT Edition 10.00.03.49:

Deployment Guide Intro:

This document:

- is intended to provide recommendations and guidance for integration of the OpenRoads Designer Configuration into a ProjectWise Environment.
- will focus on topics concerning WorkSpace /WorkSet integration and WorkSet association.

Restriction and Limitations of integrating a ProjectWise Managed Configuration

- OpenRoads Designer CE is compatible with a ProjectWise Design Integration Server CE and requires ProjectWise Explorer Client CE 10.00.02.265 or later.
- ProjectWise Managed Configuration does not support an offline or briefcase mode. PW Managed Configuration requires an active connection to a PW server.
- For ProjectWise Managed Configuration, ProjectWise administrators and users are encouraged to set the user option to "Leave Local Copy on check in". This will improve operational performance for large projects. If changes in files are detected, ProjectWise will synchronize as required.
- The WorkSpace and WorkSet configuration files must be included in the ProjectWise Managed Configuration. Meaning, the CONFIGURATION (root)/WORKSPACENAME/WORSETNAME along with the associated configuration files must be managed in ProjectWise. At this time, you cannot separate the WorkSets from the WorkSpaces. This is a requirement of the managed configuration.
- WorkSpace and WorkSet Configuration files located in ProjectWise are automatically processed and are

Deploying Configuration to Network

- Beware of potential network performance issues
- To setup Configuration Folders on network
 - Copy INSTALLED_PATH\Company to \\MyNetwork\MyConfig\
 - Copy INSTALLED_PATH\Organization-Civil to \\MyNetwork\MyConfig\
 - Copy INSTALLED_PATH\WorkSets to \\MyNetwork\MyConfig\
 - Copy INSTALLED_PATH\WorkSpaces to \\MyNetwork\MyConfig\
- To redirect Workset Folders to a different network folder
 - Edit INSTALLED_PATH\WorkspaceSetup.cfg and change the MY_WORKSET_LOCATION variable. For example:
 - MY_WORKSET_LOCATION = //MyNetwork/MyProjectData/MyProjects/
 - Move \\MyNetwork\MyConfig\WorkSets to \\MyNetwork\MyProjectData\
 - Rename \\MyNetwork\MyProjectData\WorkSets to \\MyNetwork\MyProjectData\MyProjects

Deploying to Network

- To redirect local machine to network
 - Edit WorkspaceSetup.cfg
 - Company folder
 - MY_COMPANY_LOCATION = //MyNetwork/MyConfig/MyCompany/
 - Organization Civil folder
 - MY_CIVIL_ORGANIZATION_ROOT = //MyNetwork/MyConfig/MyOrganization-Civil/
 - Workspaces folder
 - MY_WORKSPACES_LOCATION = //MyNetwork/MyConfig/MyWorkSpaces/
 - WorkSets folder
 - MY_WORKSET_LOCATION = //MyNetwork/MyConfig/MyWorkSets/

OpenRoads Designer Workspace Setup Learning Path

- Detailed training on Bentley LEARN
- <http://learn.bentley.com>

The screenshot shows the 'OpenRoads Designer Workspace Setup Learning Path' page on the Bentley LEARN portal. The page has a green header with 'Home', 'Find Training', and 'My Learning Paths' tabs. Below the header, there's a breadcrumb trail: 'Home > Find Training > View Learning Path'. The main title is 'OpenRoads Designer Workspace Setup Learning Path', followed by a description: 'These videos will guide you through setting up an OpenRoads Designer Workspace including migrating data from existing V8i workspaces.' There are two buttons: 'Add to My Learning Path' and 'Personalize'. Below this is a 'Courses' section with a paragraph of information. On the left, there's a filter sidebar with sections for 'Language' (English), 'Type' (On-Demand), 'Release Detail' (Base Release), and 'Course Level' (Advanced). A 'RESET FILTER' button is at the bottom of the sidebar. The main content area lists six courses, each with a title, a progress indicator (three bars), a description, and a 'Find Training (1)' button. The courses are: 1. 'OpenRoads Designer Workspace Setup: Step 1 - Understanding Feature Definitions', 2. 'OpenRoads Designer Workspace Setup: Step 2 - Preparing the Folder Structure', 3. 'OpenRoads Designer Workspace Setup: Step 3 - Preparing Files for Feature Migration', 4. 'OpenRoads Designer Workspace Setup: Step 4 - Feature Migration', 5. 'OpenRoads Designer Workspace Setup: Step 5 - Annotation', and 6. 'OpenRoads Designer Workspace Setup: Step 6 - Drawing Production Sheet Seeds'.

Home Find Training My Learning Paths

Home > Find Training > View Learning Path

OpenRoads Designer Workspace Setup Learning Path

These videos will guide you through setting up an OpenRoads Designer Workspace including migrating data from existing V8i workspaces.

[Add to My Learning Path](#) [Personalize](#)

Courses

Information about courses in this learning path is provided below. Click on Find Training to view all of the available offerings and their descriptions. Select a language, type of training, and/or product generation on the left to narrow your results. If you are interested in a live training class, submit a service request, including the timeframe: either next month, or in the next 3 months.

▼ Language

English

▼ Type

✓ On-Demand

▼ Release Detail

Base Release

▼ Course Level

Advanced

[RESET FILTER](#)

On-Demand [X]

OpenRoads Designer Workspace Setup: Step 1 - Understanding Feature Definitions ■■■

Discover the new types of Feature Definitions in OpenRoads Designer CONNECT Edition.

[Find Training \(1\)](#)

OpenRoads Designer Workspace Setup: Step 2 - Preparing the Folder Structure ■■■

Learn how the Workspace folder structure is set up and how it can be customized for a network environment.

[Find Training \(1\)](#)

OpenRoads Designer Workspace Setup: Step 3 - Preparing Files for Feature Migration ■■■

Learn how to bring forward SELECTseries 4 linetypes, levels, element templates, graphical filters and design standards into an OpenRoads Designer Workspace.

[Find Training \(1\)](#)

OpenRoads Designer Workspace Setup: Step 4 - Feature Migration ■■■

Learn how to upgrade SELECTseries 4 Features and Element Templates to an OpenRoads Designer Workspace.

[Find Training \(1\)](#)

OpenRoads Designer Workspace Setup: Step 5 - Annotation ■■■

All Annotation for OpenRoads Designer is handled via MicroStation Text Favorites and OpenRoads Designer Annotation Groups. This training demonstrates the requirements and provides detailed setup instr... [More>](#)

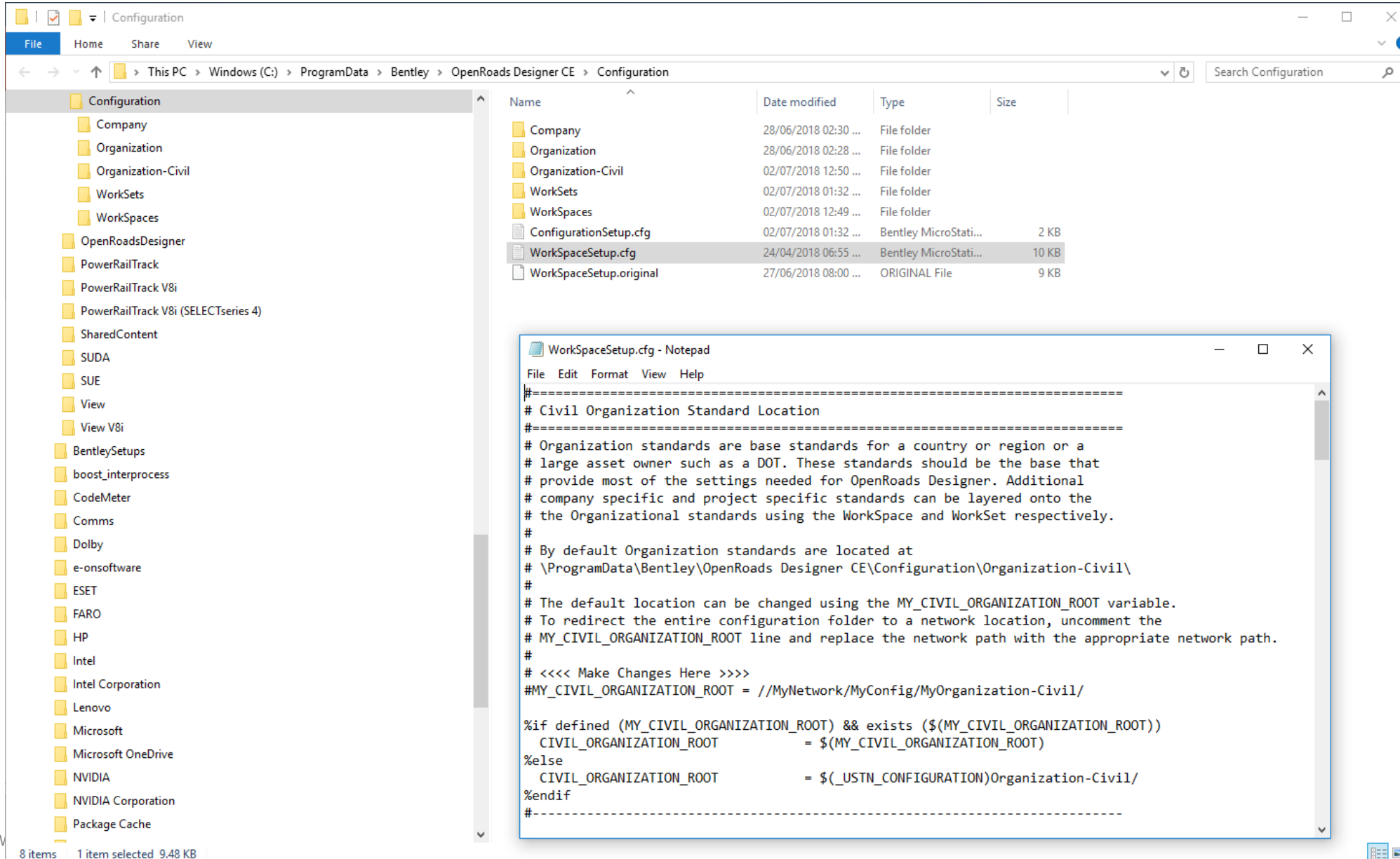
[Find Training \(1\)](#)

OpenRoads Designer Workspace Setup: Step 6 - Drawing Production Sheet Seeds ■■■

Learn how to create the seed DGN libraries to use for drawing production - plan, profile, and cross section dgn files.

[Find Training \(1\)](#)

Understanding the ANZ Design Configuration – WorkspaceSetup.cfg

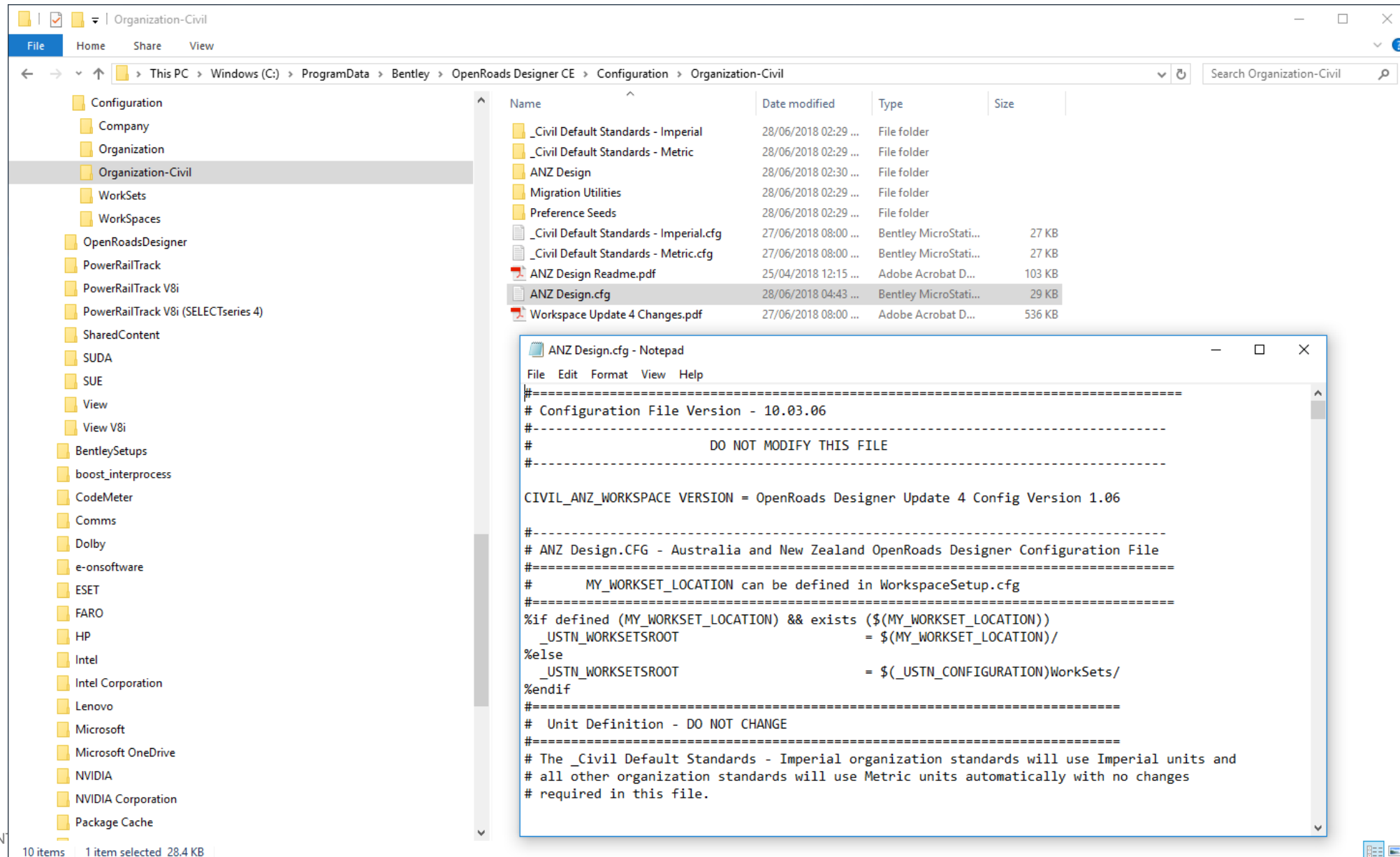


The screenshot displays the Windows File Explorer interface for the Configuration folder of OpenRoads Designer CE. The left sidebar shows a tree view of the folder structure, with 'WorkspaceSetup.cfg' selected. The main pane shows a list of files and folders, including 'Company', 'Organization', 'Organization-Civil', 'WorkSets', 'WorkSpaces', 'ConfigurationSetup.cfg', 'WorkspaceSetup.cfg', and 'WorkspaceSetup.original'. The 'WorkspaceSetup.cfg' file is highlighted.

An inset window titled 'WorkspaceSetup.cfg - Notepad' shows the contents of the file. The file contains configuration settings for the Civil Organization Standard Location, including comments and a variable definition for MY_CIVIL_ORGANIZATION_ROOT.

```
#-----  
# Civil Organization Standard Location  
#-----  
# Organization standards are base standards for a country or region or a  
# large asset owner such as a DOT. These standards should be the base that  
# provide most of the settings needed for OpenRoads Designer. Additional  
# company specific and project specific standards can be layered onto the  
# the Organizational standards using the Workspace and WorkSet respectively.  
#  
# By default Organization standards are located at  
# \ProgramData\Bentley\OpenRoads Designer CE\Configuration\Organization-Civil\  
#  
# The default location can be changed using the MY_CIVIL_ORGANIZATION_ROOT variable.  
# To redirect the entire configuration folder to a network location, uncomment the  
# MY_CIVIL_ORGANIZATION_ROOT line and replace the network path with the appropriate network path.  
#  
# <<<< Make Changes Here >>>>  
#MY_CIVIL_ORGANIZATION_ROOT = //MyNetwork/MyConfig/MyOrganization-Civil/  
  
%if defined (MY_CIVIL_ORGANIZATION_ROOT) && exists ($(MY_CIVIL_ORGANIZATION_ROOT))  
    CIVIL_ORGANIZATION_ROOT = $(MY_CIVIL_ORGANIZATION_ROOT)  
%else  
    CIVIL_ORGANIZATION_ROOT = $( _USTN_CONFIGURATION )Organization-Civil/  
%endif  
#-----
```

ANZ Design.cfg



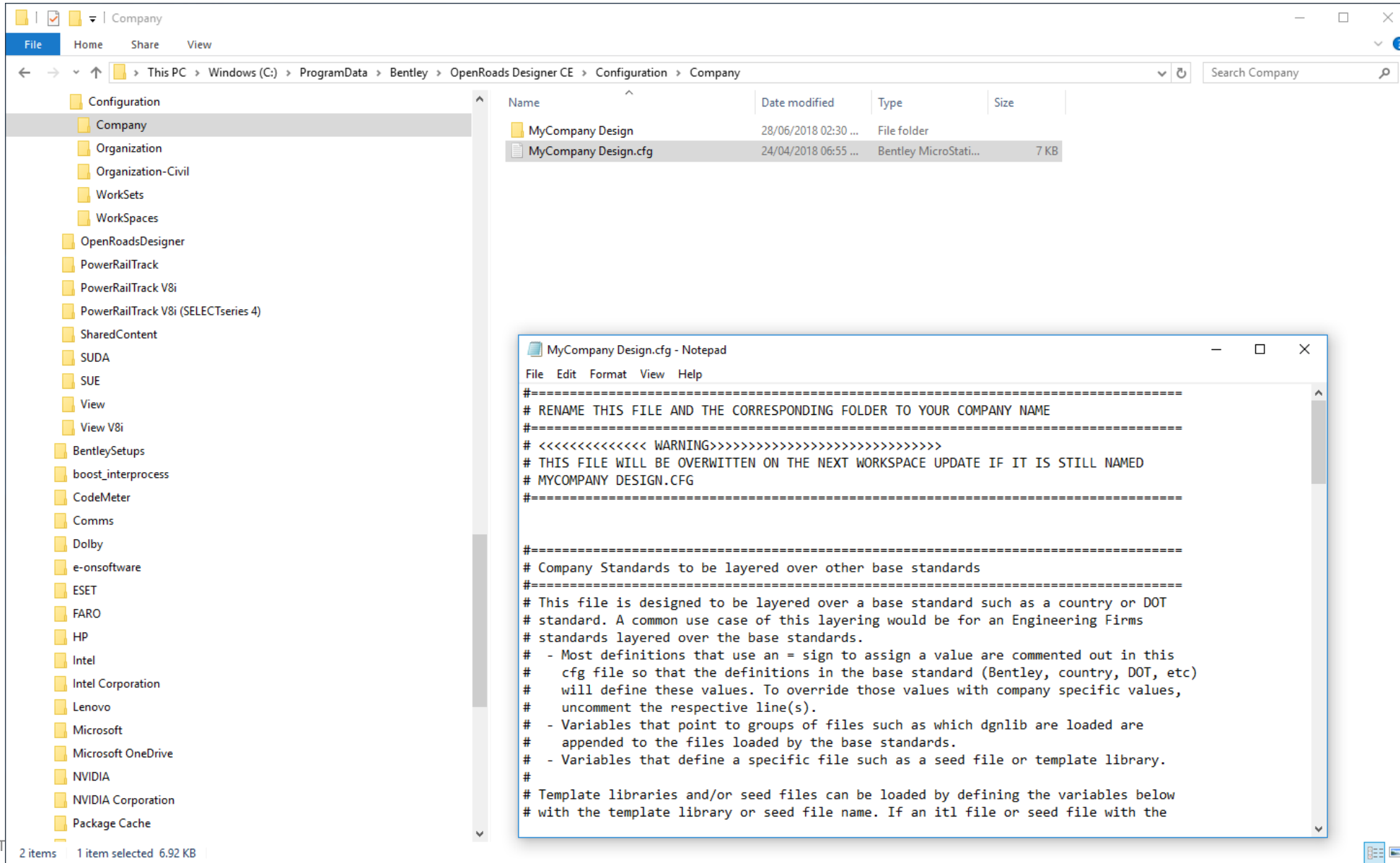
The screenshot shows a Windows File Explorer window with the address bar set to 'This PC > Windows (C:) > ProgramData > Bentley > OpenRoads Designer CE > Configuration > Organization-Civil'. The left sidebar shows the 'Organization-Civil' folder selected. The main pane displays a list of files and folders:

Name	Date modified	Type	Size
_Civil Default Standards - Imperial	28/06/2018 02:29 ...	File folder	
_Civil Default Standards - Metric	28/06/2018 02:29 ...	File folder	
ANZ Design	28/06/2018 02:30 ...	File folder	
Migration Utilities	28/06/2018 02:29 ...	File folder	
Preference Seeds	28/06/2018 02:29 ...	File folder	
_Civil Default Standards - Imperial.cfg	27/06/2018 08:00 ...	Bentley MicroStati...	27 KB
_Civil Default Standards - Metric.cfg	27/06/2018 08:00 ...	Bentley MicroStati...	27 KB
ANZ Design Readme.pdf	25/04/2018 12:15 ...	Adobe Acrobat D...	103 KB
ANZ Design.cfg	28/06/2018 04:43 ...	Bentley MicroStati...	29 KB
Workspace Update 4 Changes.pdf	27/06/2018 08:00 ...	Adobe Acrobat D...	536 KB

A Notepad window titled 'ANZ Design.cfg - Notepad' is open, showing the following text:

```
#-----  
# Configuration File Version - 10.03.06  
#-----  
# DO NOT MODIFY THIS FILE  
#-----  
  
CIVIL_ANZ_WORKSPACE VERSION = OpenRoads Designer Update 4 Config Version 1.06  
  
#-----  
# ANZ Design.CFG - Australia and New Zealand OpenRoads Designer Configuration File  
#-----  
# MY_WORKSET_LOCATION can be defined in WorkspaceSetup.cfg  
#-----  
%if defined (MY_WORKSET_LOCATION) && exists ($(MY_WORKSET_LOCATION))  
  _USTN_WORKSETSR00T = $(MY_WORKSET_LOCATION)/  
%else  
  _USTN_WORKSETSR00T = $( _USTN_CONFIGURATION)WorkSets/  
%endif  
#-----  
# Unit Definition - DO NOT CHANGE  
#-----  
# The _Civil Default Standards - Imperial organization standards will use Imperial units and  
# all other organization standards will use Metric units automatically with no changes  
# required in this file.
```

MyCompany Design.cfg



VicRoads Design.cfg

The screenshot shows a Windows File Explorer window with the address bar path: `This PC > Windows (C:) > ProgramData > Bentley > OpenRoads Designer CE > Configuration > WorkSpaces`. The left sidebar shows the 'WorkSpaces' folder selected. The main pane displays a list of folders and files:

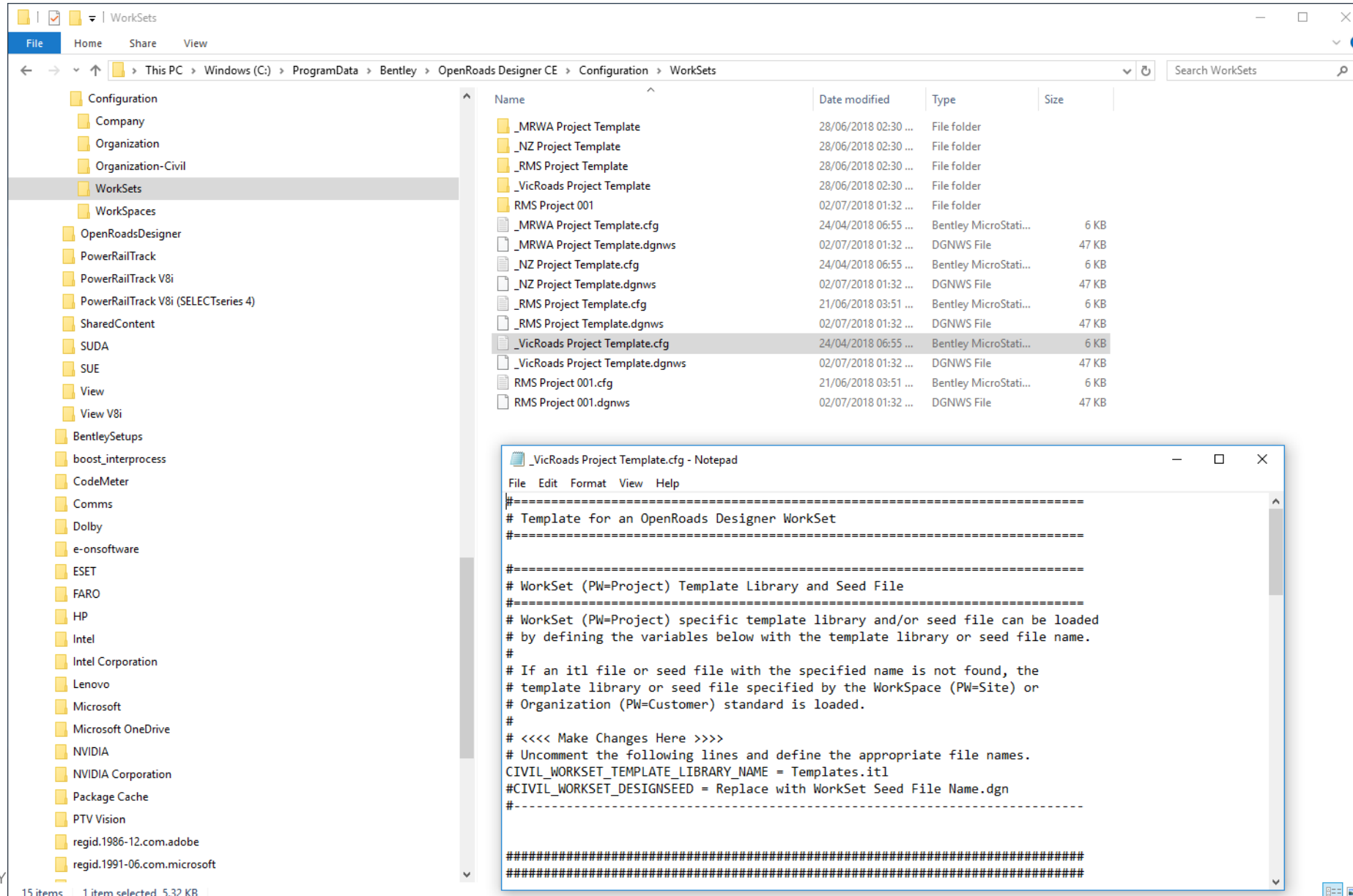
Name	Date modified	Type	Size
Example	28/06/2018 02:28 ...	File folder	
Imperial Standards	28/06/2018 02:29 ...	File folder	
Metric Standards	28/06/2018 02:29 ...	File folder	
MRWA Design	28/06/2018 02:30 ...	File folder	
NoWorkSpace	28/06/2018 02:28 ...	File folder	
NZ Design	28/06/2018 02:30 ...	File folder	
RMS Design	28/06/2018 02:30 ...	File folder	
RMS Survey	28/06/2018 02:30 ...	File folder	
Template	28/06/2018 02:29 ...	File folder	
Training and Examples	28/06/2018 02:29 ...	File folder	
VicRoads Design	28/06/2018 02:30 ...	File folder	
Imperial Standards.cfg	27/06/2018 08:15 ...	Bentley MicroStati...	9 KB
Metric Standards.cfg	27/06/2018 08:15 ...	Bentley MicroStati...	9 KB
MRWA Design.cfg	25/06/2018 02:02 ...	Bentley MicroStati...	10 KB
NZ Design.cfg	24/04/2018 06:55 ...	Bentley MicroStati...	10 KB
RMS Design.cfg	21/06/2018 03:38 ...	Bentley MicroStati...	9 KB
RMS Survey.cfg	17/05/2018 08:56 ...	Bentley MicroStati...	9 KB
Training and Examples.cfg	27/06/2018 08:15 ...	Bentley MicroStati...	6 KB
VicRoads Design.cfg	24/04/2018 06:55 ...	Bentley MicroStati...	9 KB

A Notepad window titled 'VicRoads Design.cfg - Notepad' is open, displaying the following text:

```
File Edit Format View Help
# <<<< Make Changes Here >>>>
CIVIL_ORGANIZATION_NAME = ANZ Design
#-----

#-----
# Workspace (PW=Site) Template Library and Seed File
#-----
# Workspace (PW=Site) specific template library and/or seed file can be loaded
# by defining the variables below with the template library or seed file name.
#
# If an itl file or seed file with the specified name is not found, the
# template library or seed file specified by the Organization (PW=Customer)
# standard is loaded.
#
# <<<< Make Changes Here >>>>
# Uncomment the following lines and define the appropriate file names.
#CIVIL_WORKSPACE_TEMPLATE_LIBRARY_NAME = Replace with Workspace Template Library File Name.itl
#CIVIL_WORKSPACE_DESIGNSEED = Replace with Workspace Seed File Name.dgn
#-----
```


_VicRoads Project Template.cfg



File Explorer window showing the 'WorkSets' folder in the 'Configuration' directory of 'OpenRoads Designer CE'. The 'WorkSets' folder is selected in the left sidebar. The main pane shows a list of files and folders, including '_MRWA Project Template', '_NZ Project Template', '_RMS Project Template', and '_VicRoads Project Template'. The '_VicRoads Project Template.cfg' file is highlighted.

Name	Date modified	Type	Size
_MRWA Project Template	28/06/2018 02:30 ...	File folder	
_NZ Project Template	28/06/2018 02:30 ...	File folder	
_RMS Project Template	28/06/2018 02:30 ...	File folder	
_VicRoads Project Template	28/06/2018 02:30 ...	File folder	
RMS Project 001	02/07/2018 01:32 ...	File folder	
_MRWA Project Template.cfg	24/04/2018 06:55 ...	Bentley MicroStati...	6 KB
_MRWA Project Template.dgnws	02/07/2018 01:32 ...	DGNWS File	47 KB
_NZ Project Template.cfg	24/04/2018 06:55 ...	Bentley MicroStati...	6 KB
_NZ Project Template.dgnws	02/07/2018 01:32 ...	DGNWS File	47 KB
_RMS Project Template.cfg	21/06/2018 03:51 ...	Bentley MicroStati...	6 KB
_RMS Project Template.dgnws	02/07/2018 01:32 ...	DGNWS File	47 KB
_VicRoads Project Template.cfg	24/04/2018 06:55 ...	Bentley MicroStati...	6 KB
_VicRoads Project Template.dgnws	02/07/2018 01:32 ...	DGNWS File	47 KB
RMS Project 001.cfg	21/06/2018 03:51 ...	Bentley MicroStati...	6 KB
RMS Project 001.dgnws	02/07/2018 01:32 ...	DGNWS File	47 KB

Notepad window showing the contents of the selected file, '_VicRoads Project Template.cfg'.

```
File Edit Format View Help
#-----
# Template for an OpenRoads Designer WorkSet
#-----

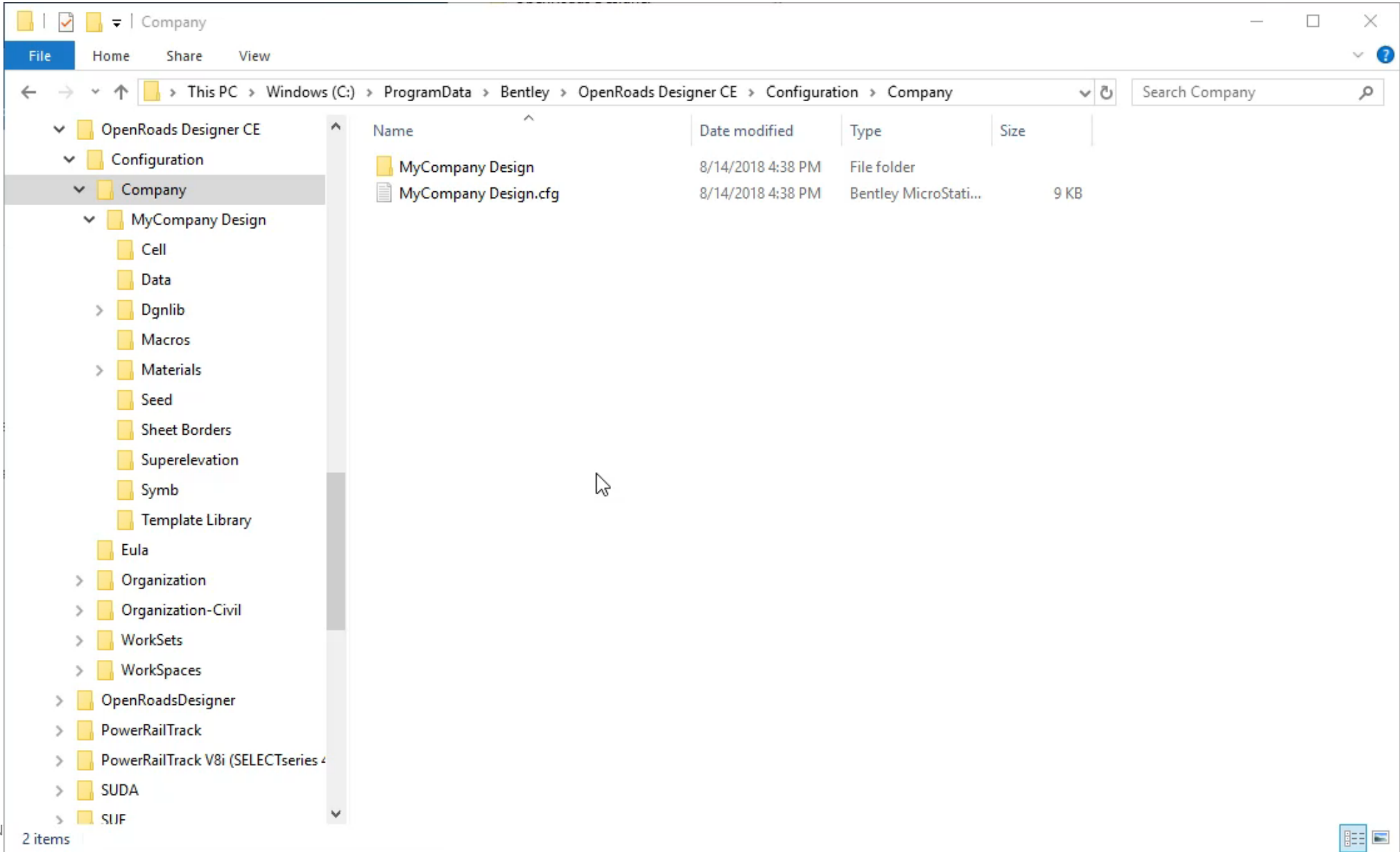
#-----
# WorkSet (PW=Project) Template Library and Seed File
#-----
# WorkSet (PW=Project) specific template library and/or seed file can be loaded
# by defining the variables below with the template library or seed file name.
#
# If an itl file or seed file with the specified name is not found, the
# template library or seed file specified by the Workspace (PW=Site) or
# Organization (PW=Customer) standard is loaded.
#
# <<<< Make Changes Here >>>>
# Uncomment the following lines and define the appropriate file names.
CIVIL_WORKSET_TEMPLATE_LIBRARY_NAME = Templates.itl
#CIVIL_WORKSET_DESIGNSEED = Replace with WorkSet Seed File Name.dgn
#-----

#####
#####
```

Configuring MyCompany Standards

- Rename INSTALLED_PATH\Company\MyCompany Design to *YourCompanyName*.
- Rename INSTALLED_PATH\Company\MyCompany Design.cfg to *YourCompanyName.cfg*
- Edit INSTALLED_PATH\WorkSpaceSetup.cfg and change the CIVIL_MY_COMPANY_NAME variable to the new *YourCompanyName* folder name. For example:
- CIVIL_MY_COMPANY_NAME = *YourCompanyName*
- Add DGNLIBs and other configuration to *YourCompanyName* folders as desired.

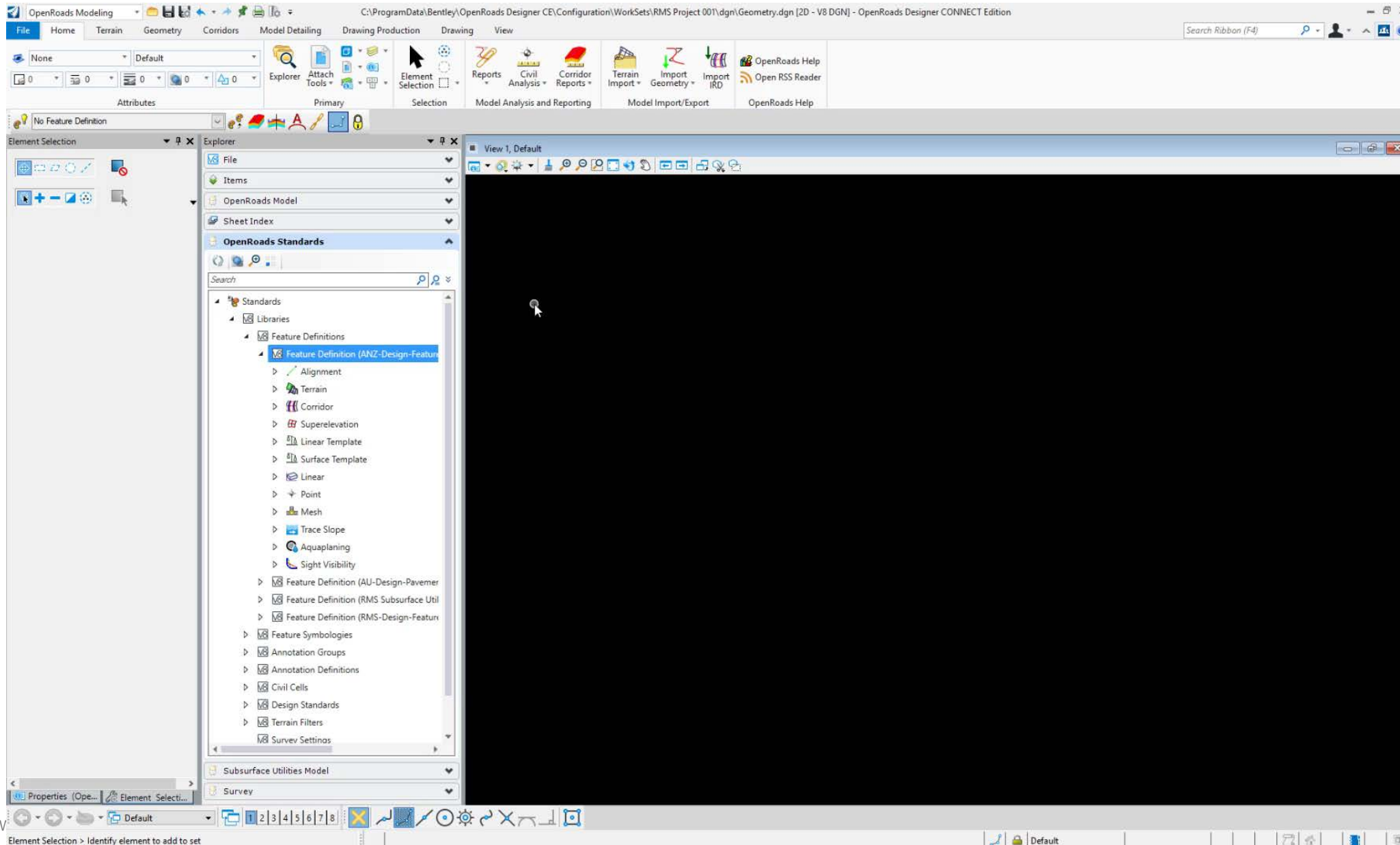
Configuring MyCompany Standards



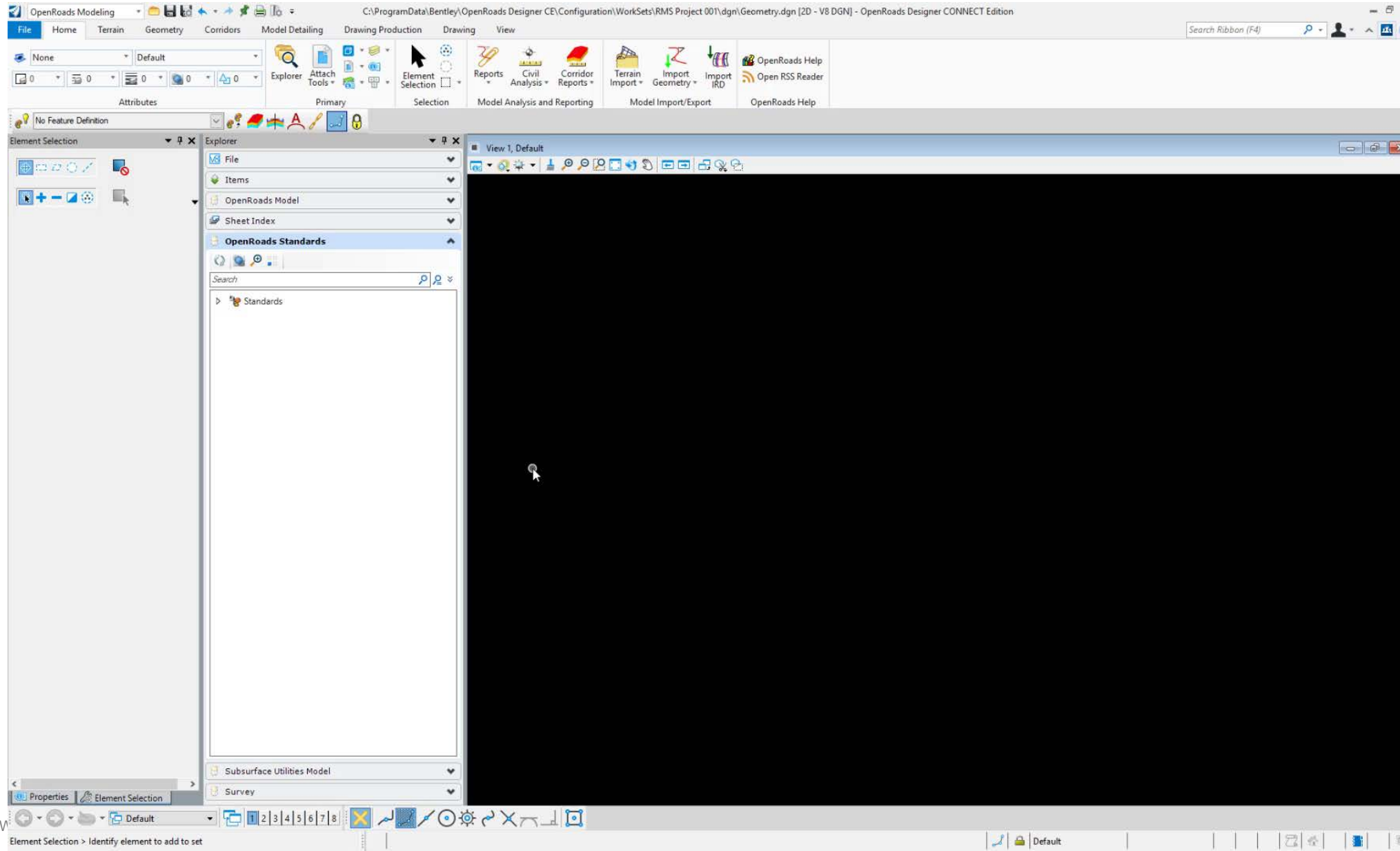
Creating your own feature definitions

- Create new DGNLIB
- Create level
- Create Element Template
- Create Feature Symbolology
- Create Feature Definition
- OPTIONAL – create annotation group
- Add to MyCompany Design\Dgnlib\Feature Definitions
- Try it out

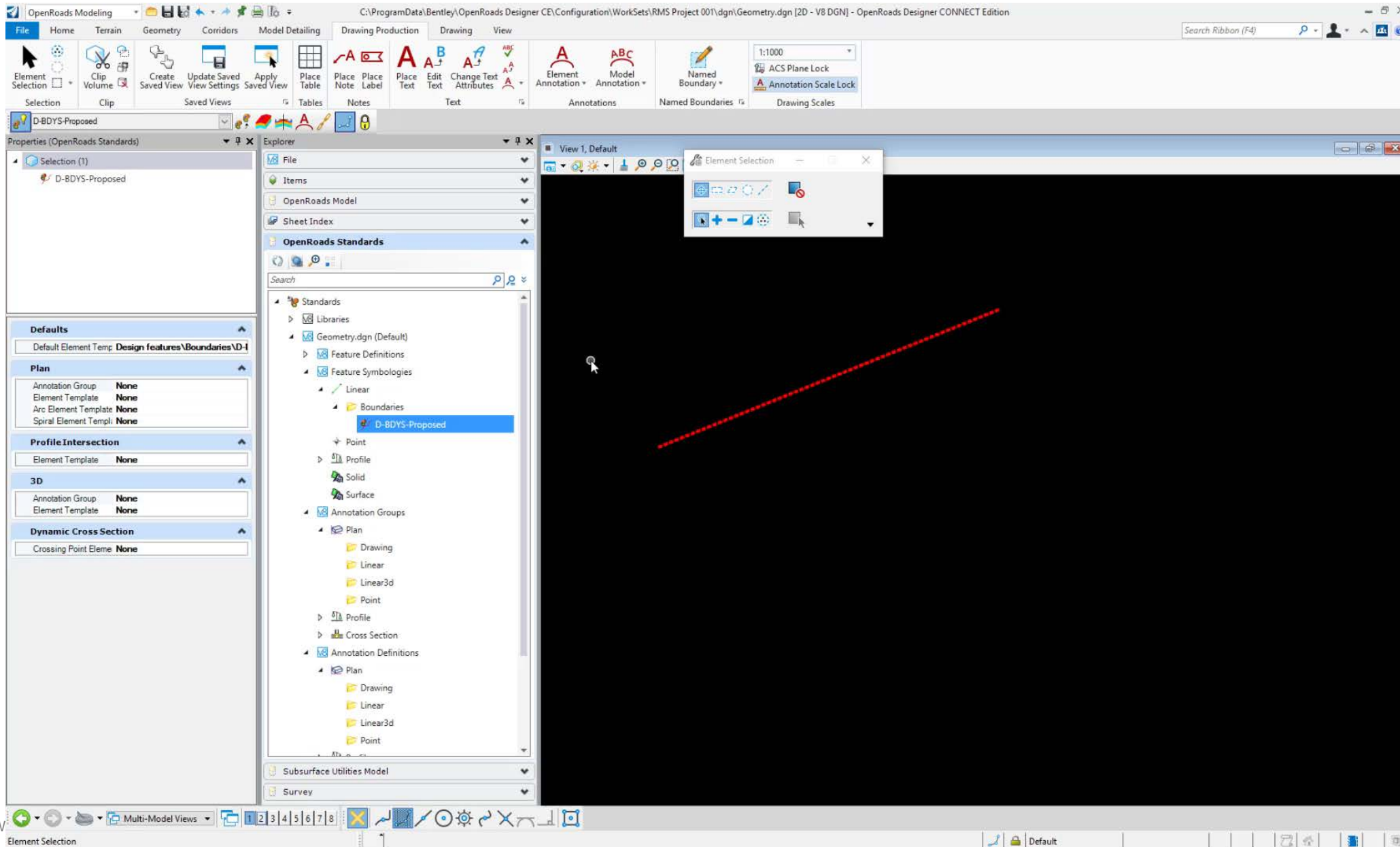
Creating your own linear feature definitions



Testing your new feature definitions



Adding annotation groups



Use Unique Names for Annotation Groups and Definitions

The screenshot displays the 'OpenRoads Standards' application interface. On the left, a tree view shows the 'Standards' hierarchy, with 'ABC Geometry Annotation' selected under 'Linear'. The main window is titled 'Manage Annotations' and shows the configuration for the 'ABC Geometry Annotation' group. The configuration is divided into several sections:

- Location:** Location is set to 'In Horizontal Component'.
- Annotate:** With Template is set to 'Annotation\Plan\Curve'.
- Leader:** Place Leader is set to 'False'. Other settings like Offset Begin, Offset End, Arrow Size, Arrow Width, Circle Size, Square Size, Triangle Size, Extension Size, and Template are all set to '0.0000'.
- Placement:** Rotation Option is set to 'Tangent'. Rotation is set to '00°00'00.0"'. Perpendicular Offset is set to 'Offset Value' (0.0035). Tangential Offset is set to 'Offset Value' (0.0000).
- Line:** Length is set to '0.0000'.

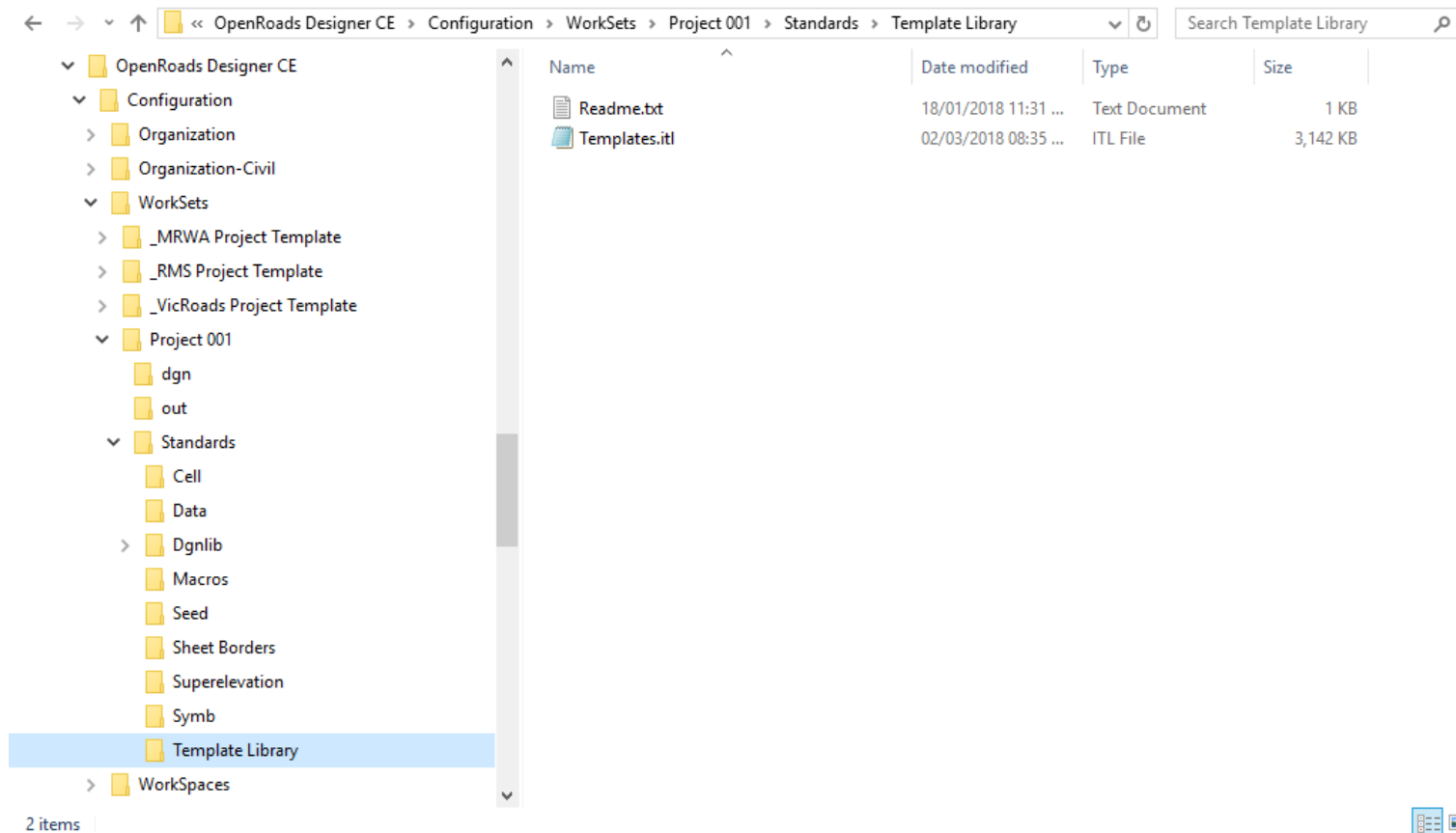
The background shows a list of standards in the left pane, including 'ABC Label - Arc - Length (LHS)', 'ABC Label - Arc - Length (RHS)', 'ABC Labels - Arc Radius (LHS)', 'ABC Labels - Arc Radius (RHS)', 'ABC Label - Spiral - Length (LHS)', 'ABC Label - Spiral - Length (RHS)', 'ABC Label - Line - Length', and 'ABC Labels - Bearing'. The main view on the right shows a road profile with a curve.

Explore the ANZ Design Configuration

- Workspaces and Workset
- Seed Files
- Levels and level filters
- Line Styles
- Cells
- Element Templates
- Feature Definitions
- Design Standards
- Sight Distance
- Template Library
- Superelevation
- Curve Widening
- Civil Cells
- Reports
- Control Features (switch parametric constraint)
- Aquaplaning reports
- Graphical Filters
- Subsurface utilities
- Function Keys and GUI Customisations (context menu)
- Display styles
- Text Styles, Text Favorites
- Labels
- Drawing Scales
- Sheet Seeds
- Plan, Profile and Cross Section Annotation
- Sheet Borders
- Macros

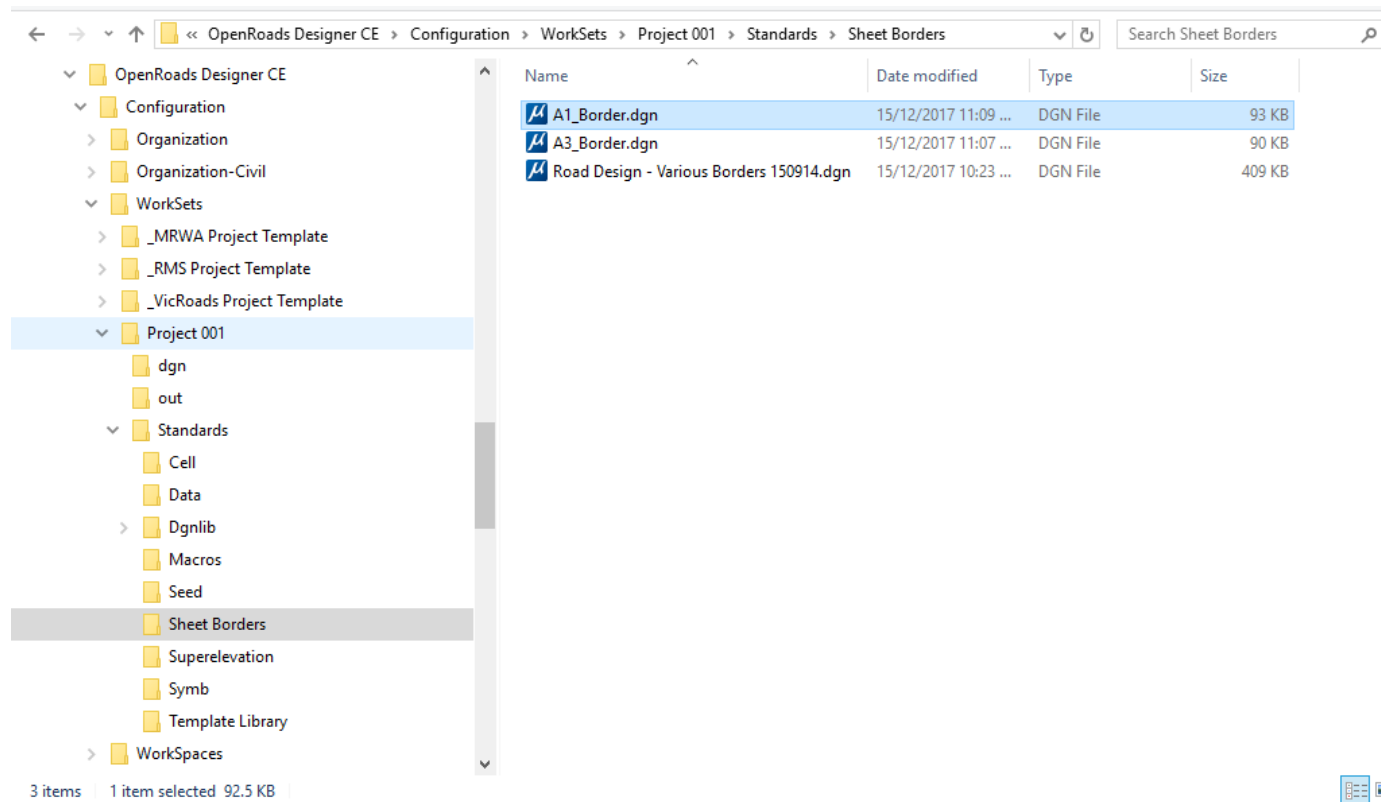
Template Library

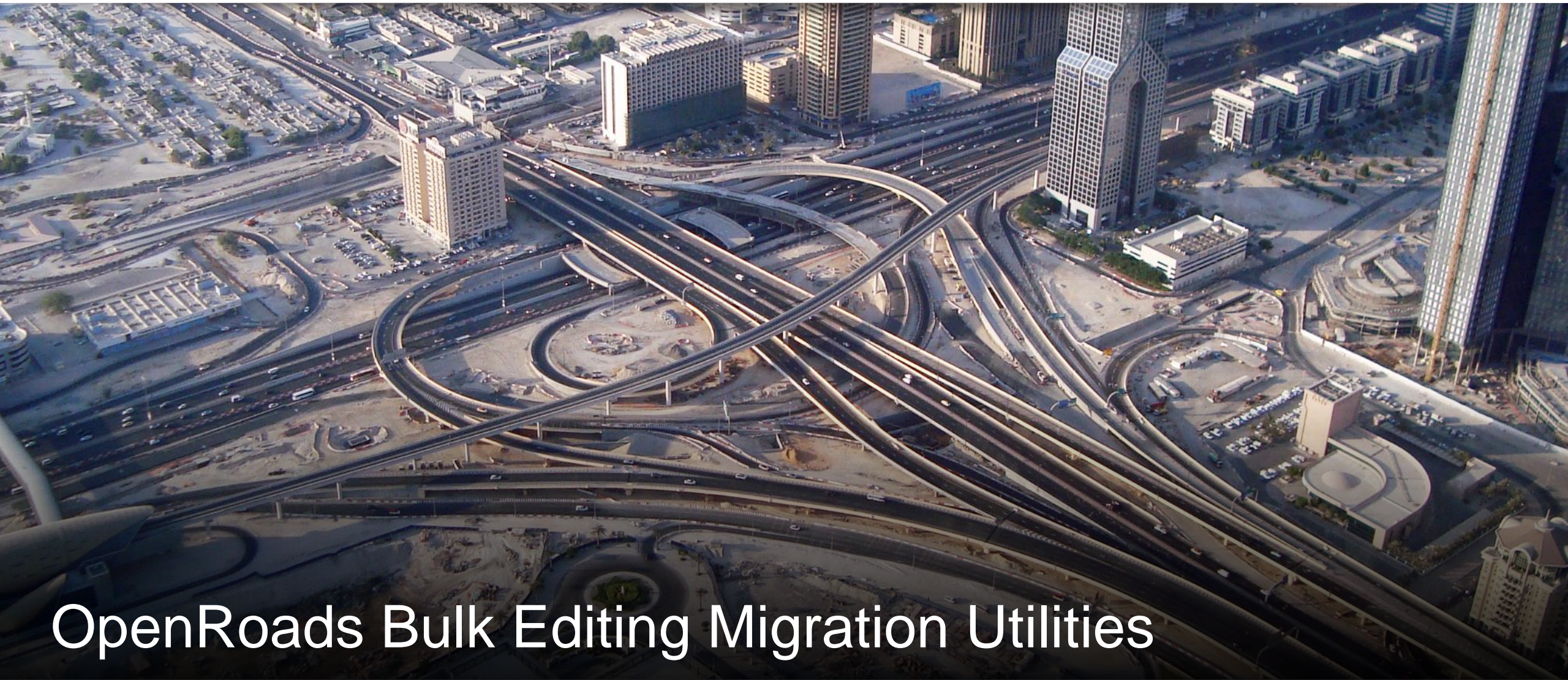
- Best to be located in project folders with workset standards
- Can be named Templates.itl and will be automatically found



Sheet Borders

- Project specific sheet borders can be placed in workset standards
- Can be named A1_Border.dgn or A3_Border.dgn and will be automatically found





OpenRoads Bulk Editing Migration Utilities

Paul Cusack, Bentley Systems



Agenda

- DDB Extractor
- Element Template Utility
- Features Import Export
- Font Remap
- GEOPAK Survey SMD Exporter
- Item Types Plus
- Save Levels To Element Templates
- Scale Models
- Template Library ITL Converter
- XIN Extractor
- XSL Style Sheets Converter

DDB Extractor

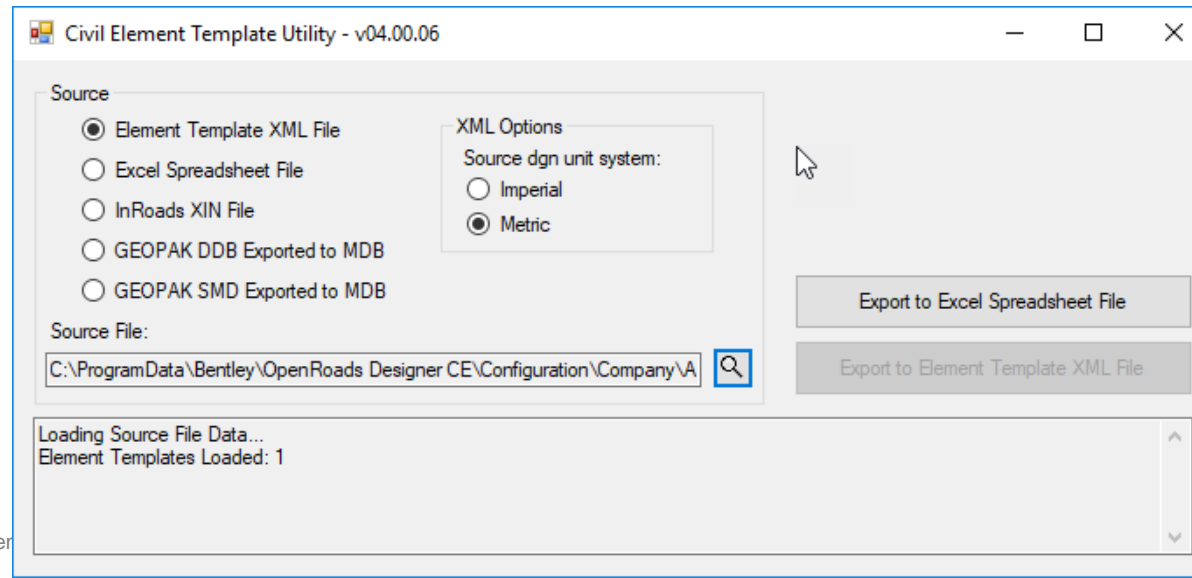
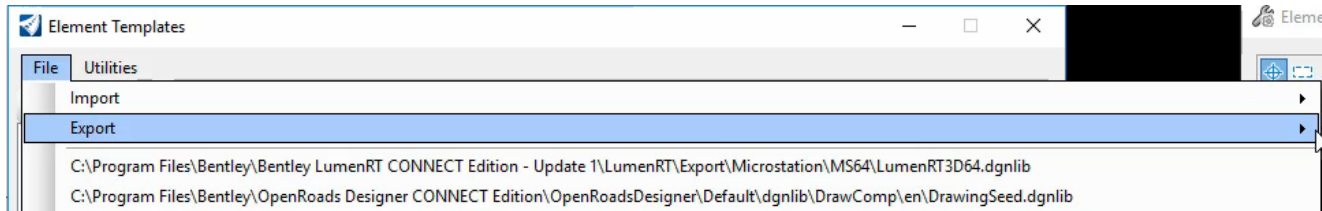
Converts a GEOPAK DDB exported to an *.MDB file to three separate XML files for importing of:

- Element Templates
- Feature Symbologies
- Feature Definitions

to OpenRoads Designer CONNECT Edition.

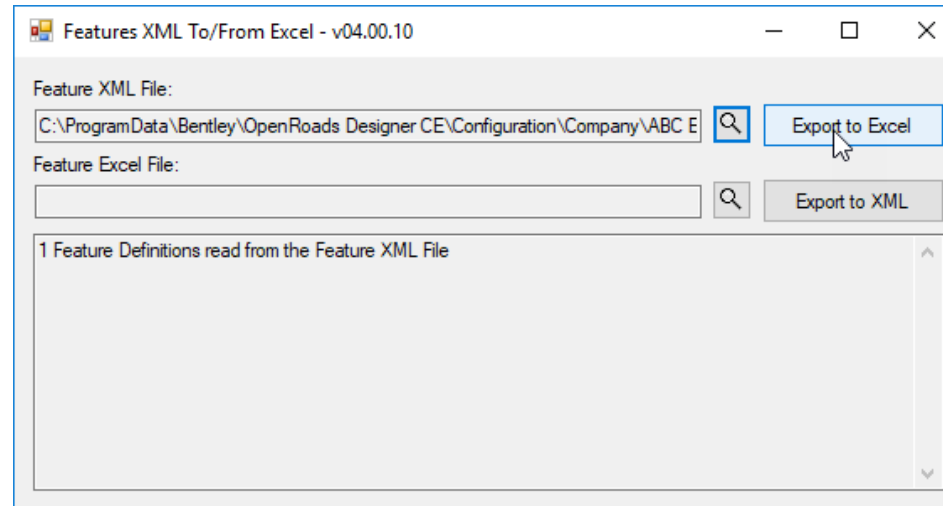
Element Template Utility

Converts an Element Template exported XML file to an Excel Spreadsheet and vice/versa for the purposes of bulk editing Element Templates.



Features Import Export

Converts an exported XML File to an Excel Spreadsheet and vice/versa for the purposes of bulk editing Feature Symbolologies and/or Feature Definitions.



https://communities.bentley.com/products/road_and_site_design/w/road_and_site_design_wiki/41069/video-exporting-feature-definitions-and-feature-symbolologies-to-xml-excel

Font Remap

MicroStation Visual Basic Application for reassigning the fonts in a dgn file, cell library, dgnlib, etc. to another font.

GEOPAK Survey SMD Exporter

Converts Geopak Survey Preferences SMD file to Element Templates, Feature Symbolologies and Feature Definitions

Item Types Plus

- Utility to attach item type data to elements

Save Levels To Element Templates

MicroStation Visual Basic Application for creating an input XML file for Element Templates from all available levels.

Scale Models

- MicroStation Addin DLL Application for bulk scaling of multiple models.
- Typically used to resize cells within a cell library.

Template Library ITL Converter

- Converts a Roadway Template Library (*.ITL) file to an Excel Spreadsheet for bulk Editing.
- Also converts the Excel Spreadsheet back to the ITL format

XIN Extractor

Converts an InRoads XIN file to three separate XML files for importing of:

- Element Templates
- Feature Symbolologies
- Feature Definitions

to OpenRoads Designer CONNECT Edition.

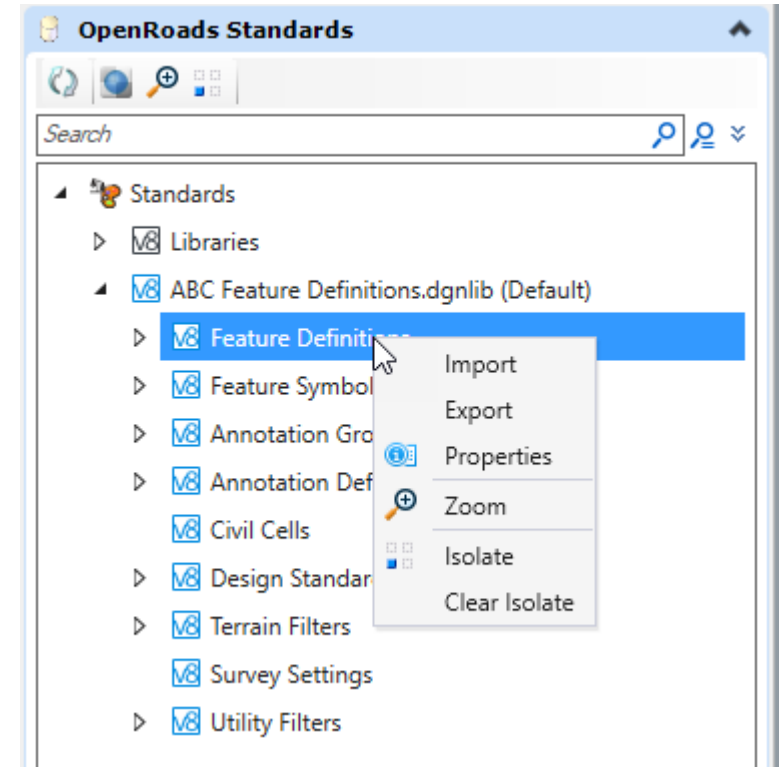
https://communities.bentley.com/products/road_site_design/w/road_and_site_design_wiki/40487/video-migrating-xin-to-feature-definitions-feature-symbolologies-and-element-templates

XSL Style Sheets Converter

Converts older versions of XSL Style Sheets to work with OpenRoads Designer CONNECT Edition.

Bulk Editing Workflow

- To enable import and export of feature definitions and symbologies to XML
_CIVIL_STANDARDS_IMPORTEXPORT=1



Workflow for bulk setup of new Feature Definitions DGNLIB

- Create new DGNLIB
- Import levels from CSV
- Import element templates from XML
- (Optional) Create / Import /Copy in Annotation definitions and Annotation Groups
- Import feature symbologies from XML
- Import feature definitions from XML

- Import Order is Important!

An aerial photograph of a complex, multi-level highway interchange in a city. The interchange features several overpasses and ramps, with cars visible on the roads. Surrounding the interchange are various urban buildings, including a tall, modern skyscraper on the right and several smaller commercial buildings. The scene is captured from a high angle, showing the intricate design of the infrastructure.

Questions?

Thank You