



Date: March 01, 2022

Workspace Configuration Version: 02.15.2022-01

Software Versions:

- **OpenRoads Designer CE – 2021 Release 1 (10.10.01.03)**
- **ProjectWise Client (10.00.03.262)**

These standards have been developed and tested using OpenRoads Designer Connect Edition (ORD). These standards are under continuous development and are subject to change in future updates.

A summary of enhancements for the latest configuration release is included below.

Installation:

Local Installation Path:

- ***C:\ProgramData\Bentley\OpenRoads Designer CE\Configuration***

Outstanding Issues:

- Bentley Service Tickets
 - SR 7001070884 - D&U Conduits Do Not Update in 3D
 - Defect #1096452
 - SR 7001071738 - Node Does Not Use Surface Slope
 - Defect #1095456
 - SR 7001115091 - No Contour on Analyze Point
 - Defect #1041067
 - SR 7001121042 - User Defined Conduit Settings Ignored
 - Defect #1098019
 - SR 7001128352 - Irregular Channels Incorrect in 3D
 - Defect #1098019
 - SR 7001224258 - Extract Does not Prompt for Surface
 - Defect #1125400
 - SR 7001224259 - Direct Utility Conflicts not Detected
 - Defect #1125942 / #1125901
 - SR 7001291860 - Longitudinal Slope Wrong
 - Defect #1139138
 - SR 7001330340 - Model Builder Ignores SHP Elevation
 - Defect #1140466
 - SR 7001349733 - Edits / Opening Remove Baseline from Drainage & Utility Properties
 - Defect #1141637
 - SR 7001349754 - Unable to Format Station & Offset - D&U Baseline Reference
 - SR 7001351416 - Unable to Annotate D&U in Survey Foot
 - Defect #1141372
 - SR 7001356578 - Update Descriptions does not update
 - Defect #1141582

General

- Updated all Workspace files to be in the 10.10 Schema.

Configurations

- *\\Organization-Civil\CDOT_Standards.cfg*
 - Added variables for Design History options.
 - Added new variables for Reports to work in PW.
 - Added new Variables for Profile View Settings.
- *\\Workspaces\CDOT_Standards.cfg*
 - Added variables while working in PW Managed Workspace to point to the correct folders for Output and Workset Standards.
 - Added variables to include Bridge Standards.
- *\\CDOT_Worksets\CDOT_Workset_Template.cfg*
 - Added variables to load PrintStyles from the Workset level.
 - Updated variables to match how the workspace variables load.
 - Updated cell variables to point to correct path for Bridge cells.

Sheet Index Template

- *\\Workspaces\CDOT_Standards\CDOT Workset Template\CDOT_Workset_Template.dgnws*
 - Updated the Sheet Index (dgnws) Template to accommodate editing Sheet Properties, adding the ability to label individual sheet properties such as:
 - Detailer
 - Designer
 - Sheet Title
 - Sheet Subset

Annotation Groups

- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Defintions\CDOT_Roadway-Levels_Features_Annotations_Element Temp.dgnlib*
 - Updated XS End Area Volume Annotation Group
- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Defintions\CDOT_SU-Levels_Features_Annotations_Element Temp.dgnlib*
 - Added annotation groups.
 - Plan – Linear
 - DU – Pln – CULV Dia – Ex
 - DU – Pln – LenSizeSlp
 - DU – Pln – SizeClass
 - DU – Pln – SizeMat
 - DU – Pln – STM Dia – Ex
 - Plan – Point
 - DU - Pln - Node Name
 - Profile – Linear
 - DU - Pro - CULV Dia - Ex
 - DU - Pro - Flow - Offset
 - DU - Pro - LenSizeSlp
 - DU - Pro - LenSizeSlpFlow
 - DU - Pro - STM Dia - Ex

Profile – Point

- DU - Pro - HW NameStaOffType
- DU - Pro - INLT InvIn1
- DU - Pro - INLT InvIn2
- DU - Pro - INLT InvIn3
- DU - Pro - INLT InvIn4
- DU - Pro - INLT InvIn5
- DU - Pro - INLT InvOnly
- DU - Pro - INLT InvOut
- DU - Pro - INLT NameStaOffType
- DU - Pro - MH InvIn1
- DU - Pro - MH InvIn2
- DU - Pro - MH InvIn3
- DU - Pro - MH InvIn4
- DU - Pro - MH InvIn5
- DU - Pro - MH InvOnly
- DU - Pro - MH InvOut
- DU - Pro - MH NameStaOffType

Levels

- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Defintions\CDOT_Roadway-Levels_Features_Annotations_Element Temp.dgnlib*
 - Changed DRAFT_Text-Misc 1 to DRAFT_Text-Dims
 - Changed DRAFT_Text-Misc 2 to DRAFT_Text-Titles
 - Changed DRAFT_Text-Misc 3 to DRAFT_Text-Notes
 - Changed SHEET_Text-Misc 1 to SHEET_Text-Border Info
 - Changed SHEET_Text-Misc 2 to SHEET_Text-Titles
 - Changed SHEET_Text-Misc 3 to SHEET_Text-Notes
 - Added DRAFT_Text-Misc

Cells

- *\\Organization-Civil\CDOT_Standards\Cell*.cel*
 - Updated all cells to reflect Level changes.
- *\\Organization-Civil\CDOT_Standards\Cell\Bridge*.cel*
 - All Bridge cell libraries were moved to the *\\Organization-Civil\CDOT_BridgeStandards\OpenBridge Modeler\Cell* folder.
- *\\Organization-Civil\CDOT_Standards\Cell\General.cel*
 - Changed the Level for SHEET_Stamp - Call811 so it will not print Transparent.
 - Created SHEET_BarScale - Title Sheet cell.
- *\\Organization-Civil\CDOT_Standards\Cell\Landscape_Environmental.cel*
 - Resized cells to correct size to be used with annotation scale
 - Added SWMP_Flow Arrow cell.
- *\\Organization-Civil\CDOT_Standards\Cell\Subsurface - Hydraulics.cel*
 - Updated
- *\\Organization-Civil\CDOT_Standards\Cell\Subsurface - Labeling.cel*
 - New cell library
 - Added cell SU_ANNO Name - Cap
- *\\Organization-Civil\CDOT_Standards\Cell\Subsurface - Utilities.cel*
 - Updated

- *\\Organization-Civil\CDOT_Standards\Cell\Traffic - General.cel*
 - Updated all Striping cells to be correct Physical Scale and not change with the annotation scale.
- *\\Organization-Civil\CDOT_Standards\Cell\XS Crossing Point Labels.cel*
 - Added BL and Ramp A-D XS Flags

Text Favorites

- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Definitions\CDOT_Text Favorites_Text Styles_Dimension Styles.dgnlib*
 - Updated Text Favorites to reflect changes in 10.10 update.
 - Updated Drainage\Utility Text Favorites
 - Added ROW Text Favorites to work with Civil Labeler.
 - Added GIS Text Favorites to work with Civil Labeler.
 - Added Sheet Index Text Favorites to work with Sheet Title Blocks.

Civil Labeler

- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Definitions\CDOT_Civil Labeler.xml*
 - Created new labels for Plan, Profile, Cross Section in Civil Labeler.
 - Created new labels for Drainage\Utilities in Civil Labeler.
 - Created new labels for GIS in Civil Labeler.
 - Created new labels for ROW in Civil Labeler.

Feature Symbolologies

- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Definitions\CDOT_SU-Levels_Features_Annotations_Element Temp.dgnlib*
 - Added annotation groups to the following:
 - Proposed Culverts: CULV * - Lin in Linear > Hydraulics > CULV
 - Existing Culverts: All in CULV * Ex folders in Linear > Hydraulics
 - Proposed Storm Lines: STM * - Lin in Linear > Hydraulics > STM
 - Existing Storm Lines: All in STM * Ex folders in Linear > Hydraulics
 - Proposed Sanitary Lines: SAN * - Lin in Linear > Utilities > SAN
 - WTR Water Line - Lin in Linear > Utilities > WTR
 - CULV FES * & CULV HW * in Point > Hydraulics > CULV
 - STM INLT * & STM MH * in Point > Hydraulics > STM
 - CULV - Pro, CULV Ex - Pro, STM - Pro, & STM Ex - Pro Profile > Hydraulics

Feature Definitions

- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Definitions\CDOT_Roadway-Levels_Features_Annotations_Element Temp.dgnlib*
 - Changed volume option for Milling feature definition to Unsuitable.
 - Added a feature definition for Gravel Median
 - Set the correct level for the Driveway Template Components
 - Set the correct level for the Median Template Components
 - Set the correct linestyle for the Guardrail feature definitions.
 - Removed the Bridge levels\feature definitions and moved them to separate library.

- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Defintions\CDOT_Bridge-Levels_Features_Annotations_Element Temp.dgnlib*
 - Moved all Bridge related levels\feature definitions to a separate library.
- *\\Organization-Civil\CDOT_Standards\Dgnlib\Feature Defintions\CDOT_SU-Levels_Features_Annotations_Element Temp.dgnlib*
 - Corrected Prototypes for:
 - STM Inlet Type 16
 - STM Inlet Type 16 Double

Scales

- *\\Organization-Civil\CDOT_Standards\Scales\scales.def*
 - Added scales: (1"=80', 1"=1000', 1"=2000', 1"=5000', 1"=1 mile, 1"=2 miles)

Sheet Borders

- *\\Organization-Civil\CDOT_Standards\Sheet Borders*
 - Updated all Sheet Border cells to accommodate labeling the Sheet Title, Sheet Subset, Detailer and Designer from the Sheet Index.
- *\\Organization-Civil\CDOT_Standards\Sheet Borders\General Sheets.cel*
 - Added M_S Standards Sheet cell.
- *\\Organization-Civil\CDOT_Standards\Sheet Borders\Design Sheets.cel*
 - Updated all Borders to reflect Level changes
 - Removed BarScale from Title Sheet cell and made it an indivual cell in the General.cel library.

Sheet Seeds

- *\\Organization-Civil\CDOT_Standards\Dgnlib\Sheet Seeds*
 - Updated all Sheet Seeds with new sheet borders. See Sheet Borders section.
 - Updated all Sheet Seeds with new settings to turn On\Off level and reference settings in the design model.
 - Made Plan w\ Matchline the default Plan Annotation Group.
 - Added 1"=1000' Plan Sheet option.
 - Added New ROW Plan Sheet Seeds for all Scales.
 - Added Survey Title Sheets.
 - Added Survey Plan Sheets for all Scales.

Plotting

- *\\Organization-Civil\CDOT_Standards\Printing\PenTables*.tbl*
 - Updated Pentables to fix printing issues with contours and components.
 - Updated Pentables to print Matchlines in black.
 - Updated Pentables to reflect Level changes.

Template Library

- *\\Organization-Civil\CDOT_Standards\Template Library\CDOT_Template Library.itl*
 - Changed EAV Labeling component to a Draft component.
 - Added a Gravel Median.
 - Fixed Shoulder Only Linear Templates – Removed Pavement Slab.
 - Fixed Intersection Null Points to look for the correct Range.

GUI

- *\\Organization-Civil\CDOT_Standards\Dgnlib\GUI\CDOT_Custom_Menu.dgnlib*
 - Added Workflow for Bridge.
 - Removed custom XS Navigator VBA as it is no longer needed due to 10.10 updates.
 - Removed custom Level Display VBA as it is no longer needed due to 10.10 updates.
 - Removed Updated Sheets icon as it is no longer needed due to 10.10 updates. User can now update sheets directly from the Sheet Index.
 - Added Place Note and Civil Text Labeler to pop-up menu.
 - Added new Title Sheet BarScale cell to CDOT Menu.
 - Added M&S Standards Sheet to CDOT Menu.

Report Style Sheets

- *\\Organization-Civil\CDOT_Standards\Reports\CDOT*
 - Added CDOT Geometry Points.xls style sheet.

Apps

- *\\Organization-Civil\CDOT_Standards\Apps\Typical Section Generator\TypicalSection.exe*
 - Updated for 10.10 Workspace.

Bridge Standards

- *\\Organization-Civil\CDOT_Bridge Standards*
 - Added Bridge Standards folder and configuration file to work with OpenBridge Modeler.