



**DATE:** 08/15/2025

**SUBJECT:** Pennsylvania Turnpike Commission Update Memo, Version 3.1 Updates

**FROM:** PTC Digital Delivery Team

This PTC Standards Update Memo outlines all revisions to the PTC Project Information Modeling & CAD Standards. These standards are comprised of the document of the same name, as well as all associated files. Effective 08/15/2025, Version 3.1 is the most recent version of the PTC Project information Modeling & CAD Standards. Should you have any questions on the revisions outlined in this document, please contact [digitaldelivery@paturnpike.com](mailto:digitaldelivery@paturnpike.com).

Changes made in Version 3.1 will reflect documentation as well as standard content for Bentley's OpenRoads and Autodesk's Civil 3d. Development and enhancements are outlined below including several new additional features to modules not previously provided. Please read through the updates to familiarize yourself with the changes and additions provided with this release.

The following sections of the PTC Project information Modeling and CAD Standards have been updated as follows:

## PROJECT EXECUTION PLAN

- Minor text and terminology updates

## PTC PROJECT INFORMATION MODELING AND CAD STANDARDS, VERSION 3.1

- Section 5.6.3.11 was updated to reflect changes to the code sets in the Civil 3D template
- Section 7.1.4.3 was created to move plan production information from the appendices to the drawing production section
- Section 7.1.4.3.2 was created to specify details and processes of OpenRoads Designer plan production
- Section 8.2 & 8.3 Implementation of new Naming conventions for Files and Sheets
- Section 14.5.1 and 14.5.4 were updated to include layers created to support new Civil 3D Styles
- Section 14.6 was added to include OpenRoads Designer levels
- Section 14.7.1 and 14.7.2 was added to list the layer/level filters available in Civil 3D and Open Roads Designer
- Section 14.8.1 was updated to include all linetypes
- Section 14.8.3 was added to list linetypes for OpenRoads Designer
- Section 14.9.2 was added to list symbols for OpenRoads Designer
- Section 14.10.1 was updated to revise Civil 3D Description Key Sets in the template
- Section 14.10.4 was updated to include the additional Civil 3D figure styles
- Section 14.11 was updated to reflect changes to Civil 3D styles

## CIVIL 3D TEMPLATE

- Standard upgrades and routine maintenance.
- All background and system files have been complete rebuilt on the 2025 platform
- Expanded utility catalogs containing new parts and sizes.
- Survey Content
  - Survey Codes have been added and edited to better align with ORD and PennDOT
  - Additional Figure Prefix's, survey figure styles, and point styles have been added for line generation
  - New Survey Layers were added to support new survey content
- Tool Palettes have been rebuilt, and additional content has been added to support the 2025 release and future updates
  - A new Tool Palette has been added to provide access to custom Earthwork Blocks
  - The Plan Production Template has been updated to include new titleblock layouts as well as some new additional titleblocks were added to support ROW Sheets.
  - Removed Magnetic from the Titleblock North Arrows
  - Added Custom Earthwork tables to the Tool Palette
  - Removed PTC badges and status stamps from the layout space and added them to the tool palette
- New Horizontal Titleblocks created and added to the Plan Production Template
- New Full Length Titleblocks and print settings added to accommodate roll plots, sizes include:
  - 34 x 36
  - 34 x 48
  - 34 x 60
  - 34 x 72
  - 34 x 84
  - 34 x 96
  - 34 x 108
  - 34 x 120
- Updates to Custom Subassemblies to standardize code names and capitalizations
  - Code sets have been updated to support the new code names.
  - Assemblies have been updated to not have broken paths that needed to be manually mapped.
  - Visualization code set added to apply render materials on corridor objects.

## OPEN ROADS DESIGNER WORKSPACE

- Standard upgrades and routine maintenance.
- Expanded utility Feature definitions, Feature Symbolologies, and Element Templates.
- Expand Drainage Feature definitions, Feature Symbolologies, and Element Templates
  - Added Median Inlet Feature Definition
- Survey Content
  - Survey Codes have been added and edited to better align with ORD and PennDOT
  - New Survey Layers were added to support new survey content
- New titleblock layouts as well as some new additional titleblocks were added to support ROW Sheets.
  - Removed Magnetic from the Titleblock North Arrows
  - Removed PTC badges and status stamps from the layout space and added them to the tool palette
  - New Horizontal Titleblocks
  - New Full Length Titleblocks and print settings added to accommodate roll plots, sizes include:
    - 34 x 36
    - 34 x 48
    - 34 x 60
    - 34 x 72
    - 34 x 84
    - 34 x 96
    - 34 x 108
    - 34 x 120
- Updated Corridor Templates
- Updated the Level Library

## REVIT TEMPLATE

- No Changes at this time.