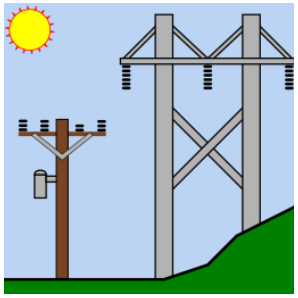

2026 PLS-CADD Advanced Training and User Group Meeting
What's New in PLS-POLE™

Summary of changes since June 2024 User Group
Covers versions 20.00-21.15.

Projects saved in version 21.12 are readable in versions 20.01 and newer unless:

- Version 20.05 and newer when using frame sets with distance relative to ground in model or framing library.
- Version 20.14 and newer for both POL file and CPP component library when using new 'Calculate' option for the Strength Definition.
- Version 20.14 and newer when using lambda insulators with a non-zero compression capacity.
- Version 20.15 and newer when using framing properties with more than 39 characters for 'Notes' or 'Keywords'
- Version 20.16 and newer when using the 'AutoTxTy' connection type.
- Version 20.17 and newer when using set numbers greater than 60.
- Version 21.08 and newer when using an inset report view linked to a CSV file.
- Version 21.09 and newer when using more than 200 braces.

New Commands

1. **Components/Framing/Add Rectangular Extents...** creates a frame set from graphical rectangular selection.
2. **Geometry/Framing/Explode Selected...** to only explode frame sets within a graphical rectangular selection.
3. **Export** added to context menu in report windows to provide the available export options for all schemas in the report in one dialog.
4. **Lambda**, **Double Pin**, and **Double Suspension** added to the **Add insulator** button in the **Add/Move/Delete Toolbar**.
5. **Geometry/PLS-CADD/Foundation Footprint...** to define a circular or rectangular region around foundation joints that PLS-CADD can check against.

Engineering & Reports

1. Now support insulator set numbers up to 999 and up to 100 separate insulator sets per structure.
2. For **Components/Concrete Pole...**, added new experimental option of **Calculate** to the **Strength Definition** column which will compute a moment capacity curve based on information entered in the **Capacity Analysis Options** column.
3. Added a new **AutoTxTy** connection type to **Geometry/Cross Arms...** to model pole braces. Any Cross Arm pointing downward with two or more attachment points and at least one of it's connections using the new AutoTxTy connection type will act as a pole brace.
4. Added a **Decomposed Assemblies Parts Table** option to **Geometry/PLS-CADD/Material Options...** which provides part counts per assembly used for **Bill of Material** reports.
5. Now require a minimum weight of 5 lbs / 22.2 N for tension-only 2-part, lambda, and double suspension insulators within their respective properties tables.
6. No longer constrain the rotation of double pin insulator tip joints.
7. Now allow lambda insulators to have a non-zero compression capacity.
8. Improved the double pin insulator cantilever load/usage calculation.
9. Increased the maximum number of members in the model to 100,000 from the previous limit of 36,000.
10. Added the JSON file format to schema report "Export" options as an alternative to XML.
11. **Geometry/Braces...** now supports up to 1000 rows.
12. **Loads/Batch Import or Edit Concentrated Loads...** now provides 32000 blank rows in addition to the number it starts with.

General Additions

1. Added the option to specify the frame set distance relative to ground.
2. Expanded **Notes** and **Keywords** character limits from 39 to 255 in Framing Library.
3. Improved handling of component libraries when using **Edit** on a framing in the **Components/Framing/Manager...** dialog to avoid creating duplicate properties or asking about saving libraries when there were no changes.
4. Framing now included in Library File Protection so pole models can restore any missing frame sets automatically.
5. No longer require unique property label when running **Model/Tubular Steel Davit Arm Optimizer...**
6. Added a General/Post Processor option for "output file name" that allows for the legacy behavior, a user

specified name, or two different unique name options.

7. Added a **Hilite Material in Model** button to the **Parts Editor** and **Assemblies Editor** dialogs.
8. Added a note to the **Summary of Double Pin Capacities and Usages** table in the **Model/Run Analysis Results** report about the max cantilever force deriving from only one side of a double pin insulator.
9. Added **File/Preferences** setting **Use system default PDF reader to fill help requests instead of Adobe Acrobat**.
10. Added a new **File/Preferences...** Setting, **Use the current model's component libraries when editing frame sets rather than the Default for New Projects from File/Preferences** that defaults to off. When turned on the properties associated with a framing will be saved to the current models component libraries prior to editing the framing and the framing will be presented with these properties.
11. Added additional validity checking for concrete analysis input settings.
12. **Loads/Batch Import or Edit Concentrated Loads...** now provides 32000 blank rows in addition to the number it starts with.
13. Added new context menu commands, **Hide Column(s)' and 'Customize Column Visibility** to hide and show columns in dialog tables.
14. Added the **File/Batch Modify...** option **Consolidate Components Files** that applies the source model's component files to all selected models while adding any missing (or different) referenced properties from the target models to those component files.
15. Improved the handling of frame sets with filenames that have quotes in them (such as an inches abbreviation).
16. Updated "Help/Tips of the Day" with new and improved tips.
17. Added 'Auto Set Azimuth' column to "Geometry/Vangs..." to automatically adjust the azimuth to a connected guy or insulator.
18. Added "View/Display Options/Show Foundation Footprint" to show any foundation footprints with the structure geometry.
19. Added a warning icon to title bar in table dialogs if any columns have been hidden. You can click on the icon to restore any hidden columns.
20. Updated clipboard information to include colors and text style when doing a Copy of any table so it can be pasted, with color, into a different program such as Excel.

Performance

1. Improved performance of certain types of calculations. Can result in up to 10% faster overall analysis.

Drafting and Graphics

1. Added a new annotation view type of **Sheet Range** to **Drafting/Lines and Annotation/Table Edit...** which displays annotations on a user selected subset of sheet pages.
2. Added an option to **File/Export/DXF...** to use the model coordinate system instead of positioning the model to lie in the XY plane.
3. Improved exported DXF files to support solid fill hatches.
4. Improved **Digital Ink** drawing (accessed through 'F2' key) to support different line widths, colors, and shapes.
5. Use the **Digits of precision to use for Dimension Annotation** setting in **File/Preferences...** with both **Drafting/Annotation (Program-Generated)/Auto Add Dimension Lines** and **Drafting/Annotation (User-Input)/Add/Dimension Snap...**
6. Improved graphics for dash and dot line styles when using larger pen widths.
7. For several of the **Drafting/Lines and Annotation/Add/** and **Drafting/Lines and Annotation/Move** commands, changed the behavior of the <ctrl> and <space> keys to be toggles instead of requiring the user to hold them down. This addresses some slow drawing performance.
8. Renamed **Drafting/Inset Views/Build Inset Report View...** to **Drafting/Inset Views/Build Inset Report View/Build Manually...**
9. Added new command, **Drafting/Inset Views/Build Inset Report View/Link CSV File...** which adds the specified CSV to the Reference Manager and builds an inset report view with the contents of that CSV which can update as the CSV file is updated.
10. Now support printing of solid fill hatches which previously only worked when displaying to the screen.
11. Improved "Drafting/Annotation (Program-Generated)/Auto Add Dimension Lines" to work with elements within a frame set.

PLS-GRID

1. If the project is part of PLS-GRID, include the project's revision number in report headers.
2. Improved the handling of directly modifying structures that belong to a PLS-CADD project that is part of PLS-GRID, so you can see what project it belongs to and have the option to check out that project.
3. Added an option to **File/PLS-GRID/Server Settings** to disable searching PLS-GRID projects/files in the quick search toolbar.
4. Added **Delete From Workspace** context menu option in Project Manager Discovery which removes files from the project's workspace subdirectory after verifying the file is archived on the PLS-GRID server.

Web, Components, & Examples

1. Technical Notes
    a. https://www.powline.com/technotes/NESC_Insulators.pdf
    b. https://www.powline.com/technotes/Allowable_Wind_And_Weight_Spans_Vs_Real_Structure_Models.pdf
    c. https://www.powline.com/products/pole-deflection-check.pdf