Transmission Line Plan and Profile Drawings

Western Area Power Administration’s approach to Generating Plan and Profile Drawings directly out of PLS-CADD

Presented by Josh Ross and Pat Lathrop
Drawing BS-GH 4201 Generated from the PLS-CADD Model
Drawing TNI-WEA 4001C Generated from the PLS-CADD Model
Drawing TNI-WEA 4008C Generated from the PLS-CADD Model
Drawing OBN-NAM D 4042 Generated from the PLS-CADD Model
Drawing OBN-NAM D 4044 Generated from the PLS-CADD Model
“16” Menu Options to help Customize PLS-CADD Drawings

1) Scales
2) Page Layout
3) Layers, Colors, Pen Styles, Text Heights and Pen Thickness
4) Structure and Section Labeling
5) Terrain Origin
6) Page Size
7) DXF Overlay Options
8) Paging Display Options
9) Text Orientation, Position and Background
10) PLS-CADD Annotation
11) Display Options for PI, Alignment, Right of Way
12) Survey Data Display Options
13) Line Edit Display Options
14) Multiple Alignment Display
15) Inset Plan Detail
16) Print Setup
1) Scales

- **Horizontal and Vertical Scale**
- **Profile View Station and Elevation Grid**
- **Plan View Station Labels and Tick Marks**
- **Margins and Page Overlap**
- **Long Axis Plot**
- **Rounding of Station at Start Page**
- **Station Label Orientation**
- **Station Label Format**
- **Default Location for Structure Text**
2) Page Layout

- Plan size and Location
- Profile size and Location
- Scales size and Location
- North Arrow
- Title size and Location
- Station Labels Location
- Width of the Elevation Labels
Create Entity Layers, Select Colors, Text Height, Line Thickness, Line Types, and Symbol Size for both the Plan and Profile View.
4a) **Structure and Section Labeling Menu**
4b) **P&P Sheet Profile View Structure Labels**

**Applied Selections:**

- **Structure Number**
- **Station**
- **Structure Comments 2-9**

- Comment #1 has been reserved for and populated with Structure numbers. If selected again it would then repeat the structure label.

- **Note:** Set size of text in Menu option “Layers, Colors, Pen Styles, text Heights, and Pen Thicknesses (see slide 4e).
4c) **P&P Sheet Profile View Section Labels**

Applied Selections:

- Structure Range
- Cable File Name
- Ruling Span
- Design tension

**Note:** Set size of text in Menu option “Layers, Colors, Pen Styles, text Heights, and Pen Thicknesses (see slide 4e).
4d) **Structure Labels P&P Sheet Plan View Structure Labels**

**Applied Selections:**

- **Structure Number**

- **Note:** Set size of text in Menu option “Layers, Colors, Pen Styles, text Heights, and Pen Thicknesses (see slide 4e).
### Sections Labeling Text Size

Set Structure and Sections Labeling text size here.

<table>
<thead>
<tr>
<th>Drawing Entity</th>
<th>Prof. Text Height (in)</th>
<th>Prof. Symbol Height (in)</th>
<th>Prof. Line Thick. (in)</th>
<th>Prof. Line Style</th>
<th>Prof. Color</th>
<th>Plan Text Height (in)</th>
<th>Plan Symbol Height (in)</th>
<th>Plan Line Thick. (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor Station Grid</td>
<td>NA</td>
<td>NA</td>
<td>0.0080</td>
<td>Solid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Sub Minor Station Grid</td>
<td>NA</td>
<td>NA</td>
<td>0.0100</td>
<td>Solid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Major Elevation Grid and Contour</td>
<td>0.1000</td>
<td>NA</td>
<td>0.0025</td>
<td>Solid</td>
<td>NA</td>
<td>0.0100</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Minor Elevation Grid</td>
<td>NA</td>
<td>NA</td>
<td>0.0025</td>
<td>Solid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Sub Minor Elevation Grid</td>
<td>NA</td>
<td>NA</td>
<td>0.0010</td>
<td>Solid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Sheet Border</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Sheet Scale Area</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Sheet North Arrow</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Sheet Title Area</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Alignment</td>
<td>NA</td>
<td>NA</td>
<td>0.0250</td>
<td>Solid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>0.0500</td>
</tr>
<tr>
<td>Right-of-Way Lines</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>PI Symbols and Leader Line</td>
<td>0.1400</td>
<td>0.0400</td>
<td>0.0025</td>
<td>Solid</td>
<td>NA</td>
<td>0.1400</td>
<td>0.0400</td>
<td>NA</td>
</tr>
<tr>
<td>Ground Line</td>
<td>NA</td>
<td>NA</td>
<td>0.0050</td>
<td>Solid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Left Side Profiles</td>
<td>NA</td>
<td>NA</td>
<td>0.0050</td>
<td>Dash</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Right Side Profiles</td>
<td>NA</td>
<td>NA</td>
<td>0.0050</td>
<td>Dash</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Cleavage line</td>
<td>0.1360</td>
<td>NA</td>
<td>NA</td>
<td>Doc</td>
<td>NA</td>
<td>0.1350</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Terrain Symbols, text, leaders</td>
<td>0.1000</td>
<td>0.0500</td>
<td>0.0300</td>
<td>NA</td>
<td>NA</td>
<td>0.1200</td>
<td>0.0100</td>
<td>NA</td>
</tr>
<tr>
<td>Structures</td>
<td>NA</td>
<td>NA</td>
<td>0.0300</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>0.0400</td>
</tr>
<tr>
<td>Structure Labels</td>
<td>0.1000</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>0.1400</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Sections, span lengths and Marks</td>
<td>0.1400</td>
<td>0.1380</td>
<td>0.0100</td>
<td>NA</td>
<td>NA</td>
<td>0.1100</td>
<td>0.1390</td>
<td>0.5000</td>
</tr>
<tr>
<td>Station Equations</td>
<td>0.1000</td>
<td>NA</td>
<td>0.0300</td>
<td>Solid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Spotting Constraints</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Solid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>
5a) **At the First PI Set the Station Value**

Default Station set to 0+00

---

**Terrain Origin**

**XYZ file origin (not applicable to PFL files)**

- **Station of first P.I.** (ft) 21.800

**PFL file origin (not applicable to XYZ files)**

- **Azimuth of first point** (deg) 105.0470
- **X coordinate at station 0** (ft) 6349071.077
- **Y coordinate at station 0** (ft) 2172577.120

Note: Azimuth measured clockwise from North (North=0, East=90, South=180, West=270).
5b) **Avoid Equation Stations if possible**

![Station Equations window]

PLS-CADD will display either true stations or equation stations depending on the setting of 'stations displayed' in the File/Preferences dialog.

**Grid Scale Factor Information:** PLS-CADD normally computes and displays stations based on XY distances. These are referred to as "grid stations". Distances measured at ground level or "ground stations" can differ from grid stations. If you know the grid scale factors necessary to convert between grid and ground stations you can enter them below to get ground stations displayed in reports and drawings. If you don't care about difference between grid and ground stations then pick "yes" to get station increasing to the right or "no" to get station decreasing to the right. The grid scale factor is equal to grid distance divided by ground distance (normally less than 1).

<table>
<thead>
<tr>
<th>True Station (ft)</th>
<th>Equation Station (ft)</th>
<th>Forward Direction or numeric Grid Scale Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
6) Set PLS-CADD Page Size

![Page Size dialog box showing current page size and printer capabilities.](image)
7a) Attach DXF
7b) **Attach “Title Sheet.DXF” Settings**

**Attach to P&P view**

### DXF Overlay Options

- **File**: `\engineering\pls libraries and structure models\pls-cadd atug 2013 presentation\trinity-weaverville\dxf\title_sheet_4-11-2006.dxf`
- **Attach to**: P&P view. DXF coordinates are x,y,z in inches

- Display only on specified P&P sheet
- Use the text size specified in the DXF file rather than text size set in this application. Text size used in sheet view is set in Drafting/Text size... while text size for other views is set in File/Preferences/Gr
- Use DXF text style (only TrueType fonts supported) instead of graphics font
- Use DXF file colors
- Use DXF file line weight (thickness) and line style (type). DXF line style scale ($LTSCALE) = 1
- Apply additional scale factors and rotations. Options appear in new dialog box after pressing ok.
- Filter (remove) entities in paper space

**Extents**: Use program calculated extents

**Coordinate system**: (Unknown or Unavailable)

Currently only TEXT, MTEXT, ATTRIB, ATTDEF, CIRCLE, ARC, ELLIPSE, LINE, POLYLINE, LWPOLYLINE, SOLID, TRACE, 3DFACE, POINT and BLOCK DXF entities are supported. SPLINE and LEAD

<table>
<thead>
<tr>
<th>Layer Name</th>
<th>Display</th>
<th>Color</th>
<th>Lines</th>
<th>Polylines</th>
<th>Arcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 0</td>
<td>Yes</td>
<td></td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BORDER</td>
<td>Yes</td>
<td></td>
<td>21</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CLEARANCE_NOTE</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COORDINATE_NOTE</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEFPPOINTS</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DESIGN</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRAPHICS</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GROUND</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEY</td>
<td>Yes</td>
<td></td>
<td>1</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>PLS</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
7c) Western’s Sheet dxf drawings are designed to create full size to scale drawings. No Shift/Scale adjustments needed.
7d) Title Sheet DXF

- “Sheet DXF” are sized to align to the PLS-CADD Page Size.
- No Shift Scale adjustment needed.
- “Title Sheet DXF” was created to display on all Sheets.
7e) **Sheet Specific “Sheet 1.DXF” Attachments**

- Sheet specific DXF attachments can provide a way to import a CAD drawings into one specified PLS-CADD sheets.

- The DXF can provide a location to add such items as revision notes, details, line work and other annotations pertinent to this one drawing.
7f) “Sheet 1.dxf” DXF

DXF Overlay Options

- Display only on specified P&P sheet
- Use the text size specified in the DXF file, rather than text size set in this application. Text size used in sheet view is set in Drafting/Text size... while text size for other views is
- Use DXF text style (only TrueType fonts supported) instead of graphics font
- Use DXF file colors
- Use DXF file line weight (thickness) and line style (type). DXF line style scale ($LTSCALE) = 1
- Apply additional scale factors and rotations. Options appear in new dialog box after pressing OK.
- Filter (remove) entities in paper space

Extents: Use program calculated extents
Coordinate system: (Unknown or Unavailable)

Currently only TEXT, MTEXT, ATTRIB, ATTDEF. CIRCLE, ARC, ELLIPSE, LINE, POLYLINE, LWPOLYLINE, SOLID, TRACE, 3DFACE, POINT and BLOCK DXF entities are supported.

<table>
<thead>
<tr>
<th>Layer Name</th>
<th>Display</th>
<th>Color</th>
<th>Lines</th>
<th>Polylines</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 0</td>
<td>Yes</td>
<td></td>
<td>347</td>
<td>315</td>
</tr>
<tr>
<td>2 51</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 59</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 100ft_guy_pockets</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 100ft_offset</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Display only on Specified P&P Sheet 1.
8) “Paging Station Range” sets the Sheet display range.

- Set the Start Station
- Set the stop station
- Set the Start Page Number (sheet number).
9) PLS-CADD Text Orientation, Position and Background

- Text Display Options
- Text Line Spacing Options
- Terrain Related Text Position
- Text Orientation Preference
10a) PLS-CADD Annotation
10b) **Automatic insertion of text using “Special Codes”**

- `%p` for the P&P sheet number
- `%q` for the total number of sheets
- `%n` for project name
- `%m` for project directory
- `%d` for the date
- `%L` for line name
- `%t` time
- `%s1` for start station
- `%s2` for stop station
- `%s3` for start structure
- `%s4` for stop structure
- `%C1...%C50` for specific rows of annotation input in the Criteria Notes
- `%R1...%R??` For specific rows of annotation from the Project notes in the Line/Edit dialog
- `%dim` for distance between dimension line end points (Optionally followed by desired digits after decimal line `%dim0` or `%dim2`)
11) **Display Options for PI, Alignment, and Right of Way**

| Station | Line Angle | Label | PI Symbol/Leader Line Color | PI Leader Line Style | Ahead-Segment Line Color | Ahead-Segment Line Style | Right-of-Way Left Offset | Right-of-Way Right Offset | Right-of-Way Line Color | Right-of-Way Line Style |
|---------|------------|-------|------------------------------|----------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|------------------------|
| 1       | 1          | 5.000 | 1                             | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 2       | 1          | 0.15  | 0/03                         | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 3       | 1          | -30.21| 0/1                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 4       | 1          | -0.20 | 3/2                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 5       | 1          | -29.83| 2/3                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 6       | 1          | -0.27 | 4/4                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 7       | 1          | -0.23 | 4/4                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 8       | 1          | -2.35 | 4/5                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 9       | 1          | -0.54 | 5/1                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 10      | 1          | 14.67 | 6/5                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 11      | 1          | -11.35| 11/5                         | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 12      | 1          | -21.21| 1/3                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 13      | 1          | 20.86 | 2/4                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 14      | 1          | -0.24 | 1/5                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 15      | 1          | -0.02 | 2/1                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 16      | 1          | 1.99  | 4/1                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 17      | 1          | -3.00 | 4/3                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 18      | 1          | 106.71| 3/3                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 19      | 1          | 85.98 | 7/7                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 20      | 1          | 43.59 | 9/9                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 21      | 1          | 124.76| 6/6                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 22      | 1          | 29.09 | 6/6                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 23      | 1          | 29.63 | 4/4                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 24      | 1          | 70.11 | 3/3                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 25      | 1          | -147.23| 0/0                        | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |
| 26      | 1          | 146.56| 0/0                          | Solid                | Solid                   | Solid                   | 0.000                   | Oct                      |                          |                          |

For the Sheet Plan View, PI and alignment settings in the table above are overridden by those in the drafting table. To change which settings should override, go to Drafting/Text size, Line width, Style, Color and Layer...
12) Survey Data Display Options

Survey Data Display Options

Ground Point Lines
Ground point lines are vertical lines passing through survey points on your centerline ground profile. These lines help you identify surveyed locations along the profile.

- Display ground point lines
- Draw point at base of survey points with nonzero H

Survey Point Symbols
- Draw symbol selected in feature table
- Draw a point
- Do not draw any symbols

Survey Point Labels
- Label per feature code table settings
- Label everything (feature code, station, offset, elevation...)
- Do not display any labels

Survey Point Comments
- Show comments as per feature code table settings
- Show all comments
- Do not show any comments

Additional options to disable display of selected feature codes, heights above ground or offset ranges

- Draw only designated feature codes
- No restriction on point H or height above TIN
- Draw only points with height above TIN in range specified to right (note: computing TIN elevation below each point may produce noticeable delay when exiting this dialog)
- Draw only points with H in range specified to right (requires survey data with nonzero H)

- Draw only points within specified range of centerline stations and offsets

LiDAR Point Color Coding
Survey points can have colors embedded within their plan comments. Colors are defined by their red, green and blue intensities. Intensity values are between 0 and 255 (example: red=255,0,0; yellow=255,255,0)

0/4175401 XYZ points appear to have valid color codes.

- Hide color code in displayed comments
- Use color from color code
  - Pixel width and height to use for point symbol
    - 1

Extract color code from aerial imagery
Remove color codes from survey point comments

OK Cancel
13) Project Line Selection and Line Display Options
Line Edit = No.1 LINE PHASE 1
LV-YT 1, True Station 0+00 - 2472+23.38

PAGING STATION RANGE:
Do not use default station, Use True Station
START -500 = TRUE STATION -500
STOP 248000 = TRUE STATION 248000
START AT PAGE NO. 1
Line Edit = No. 2 Line Phase 1
LV-YT 2, True Station Range 0+00 - 2469+95
EQUATION 251900.00 = -326.85
PAGING STATION RANGE:
START -226.502 = TRUE STATION 251900 (Do not use default station, Use True Station)
STOP 247099 = TRUE STATION 499325.85 (Do not use default station, Use True Station)
START AT PAGE NO. 51
ADD:

• First define the viewport in sheet view by picking the upper left corner and dragging the area to the lower right corner.

• Second pick the center of view from the plan view.

• Third use the table below to edit or delete inset view on plan and profile sheets.

Sheet Inset Plan View

Use the table below to edit or delete inset plan views on plan and profile sheets.
## 15b) Edit Inset Plan Detail

- Sheet Page Number
- Detail’s Width and Height
- Detail’s plan view center point coordinates
- Scale ft/in
- Notes
- Show or Hide
  - Structure Geometry, Wires, Structure Annotation and Attachments, DXF and Shape files, Attached Images and Tin.

### Sheet Inset Plan View

Use the table below to edit or delete inset plan views on plan and profile sheets.

<table>
<thead>
<tr>
<th>Sheet Page Number</th>
<th>Inset View X</th>
<th>View Y</th>
<th>Y View</th>
<th>X View</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>Depth Of Field Limit (ft)</th>
<th>Longitude (deg)</th>
<th>Latitude (deg)</th>
<th>Scale (ft/in)</th>
<th>Notes</th>
<th>Show Structure Geometry</th>
<th>Show Wires</th>
<th>Show Guy Anchors</th>
<th>Show Structure Annotation and Attachments</th>
<th>Show DXF and Shape files</th>
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[Western Area Power Administration]
16a) Print to Scale

PLS-CADD Adobe Print Setup

Print Setup
Printer: Adobe PDF
Paper: Size ANSI D
Orientation: Landscape

Adobe PDF Document Properties
Western’s Default Setting: PLS plots
Adobe PDF Page Size: ANSI D
16b) **PLS-CADD Adobe Print Setup continued...**

**Paper/Quality Settings**
- Paper Source: Automatically Select
- Color: Black and White or Color

**Adobe PDF Converter Advanced Document Settings**
- Paper Size: ANSI D
- Print Quality: **144dpi**
- Scaling: 100%
16c) PLS-CADD Adobe Print Setup continued...

Sheet Print Setup

- **Plot Type**
  - Scaled plots (one sheet per page at specified scale)
  - Unscaled plot (one sheet per page scaled to fit available area)
  - Screen dump (scale what is currently on screen to fit on one page)
- **Print each page as a separate print job**
  (recommended only for buggy print drivers which choke on large print jobs)

- **OK**
- **Cancel**

Print

- **Printer**
  - Name: Adobe PDF
  - Status: Ready
  - Type: Adobe PDF Converter
  - Where: My Documents/\*.pdf
  - Comment:

Print range

- **All**
- **Pages** from: 1 to: 49
- **Selection**

Copies

- Number of copies: 1
- Collate

Save PDF File As

- **Save in:** Drawings
- **File name:** Sheets View.pdf
- **Save as type:** PDF files (*.PDF)
- **OK**
- **Cancel**
16d) **Print 1/2 size 11”x17” PDF drawings to Scale**

We have found the following settings will create 1/2 size scaled prints of the Scaled PDF drawing.

![Print Settings](image1)

![Print Settings](image2)
Thank you for Time.