User Manual Document

GISCAD 2020 MIGRATION

PURPOSE OF THIS DOCUMENT

This document provides information about the GISCAD 2020 tools that have been created to assist AutoCAD 2020 users when designing.

PREREQUISITES

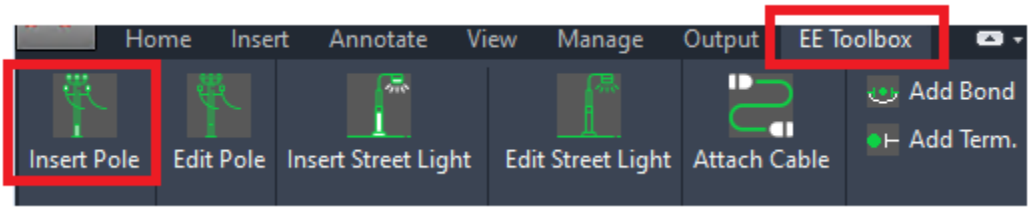
- Licensed AutoCAD 2020
- Licensed RealDWG 2020
- Windows 10 – 64bit machine
- Read/Write/Execute permission to C:\ACAD2020_GISCAD folder

STEPS TO RUN THE TOOLS

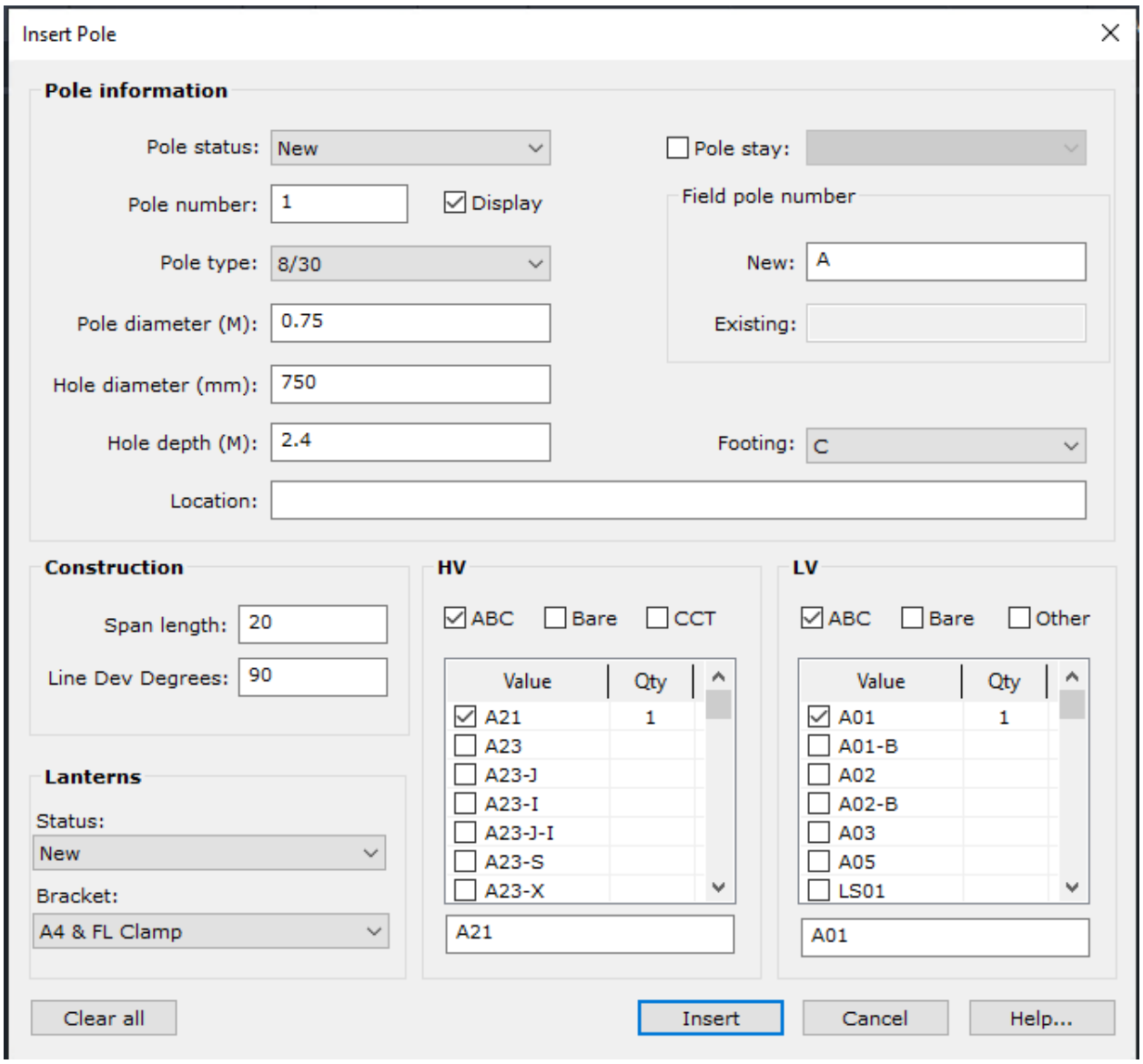
INSERT POLE

- To insert a pole into the design and enter pole details.

1. Click Insert Pole button from EE Toolbox



2. Enter Pole details in Insert Pole dialog
3. Click Insertion point
4. Press Esc key to close the command or Enter key to return to dialog


Insert Pole
Pole information
Pole status: New
Pole stay:
Pole number: 1
Display
Field pole number
Pole type: 8/30
New: A
Pole diameter (M): 0.75
Existing:
Hole diameter (mm): 750
Hole depth (M): 2.4
Footing: C
Location:
Construction
Span length: 20
Line Dev Degrees: 90
HV
ABC Bare CCT
Value Qty
A21 1
A23
A23-J
A23-I
A23-J-I
A23-S
A23-X
A21
LV
ABC Bare Other
Value Qty
A01 1
A01-B
A02
A02-B
A03
A05
LS01
A01
Lanterns
Status: New
Bracket: A4 & FL Clamp
Clear all
Insert
Cancel
Help...

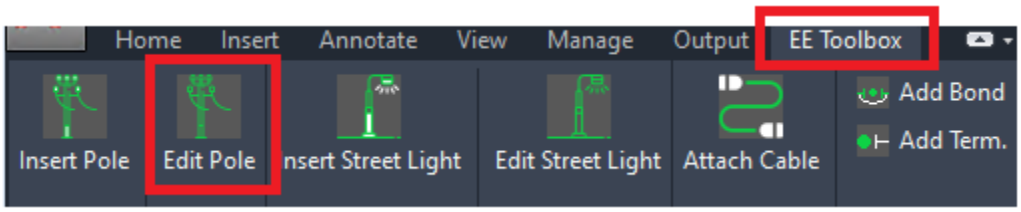
Output:

1
A

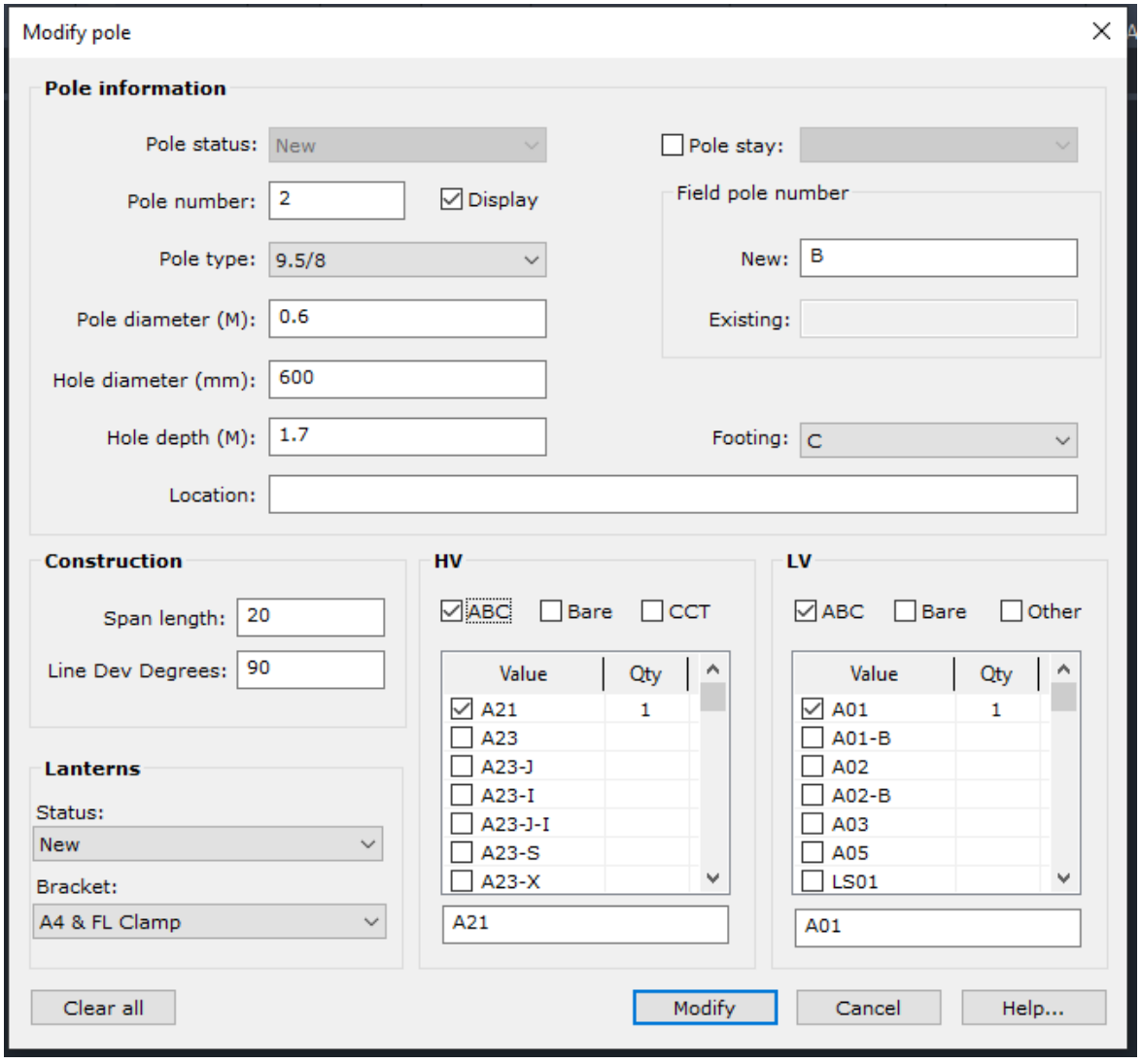
EDIT POLE

- To modify a pole's details.

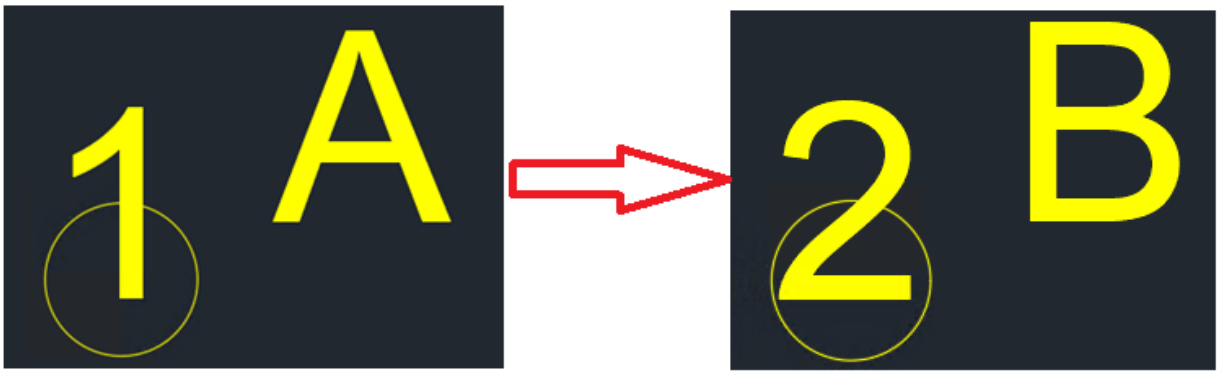
1. Click Edit Pole button from EE Toolbox ribbon



2. Select Pole to edit
3. Change the required details in Modify pole dialog
4. Click Modify button

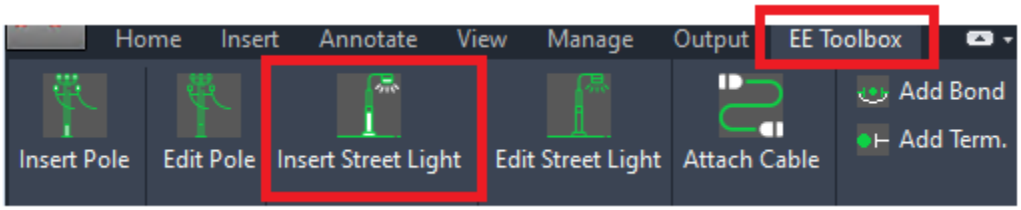


Output:

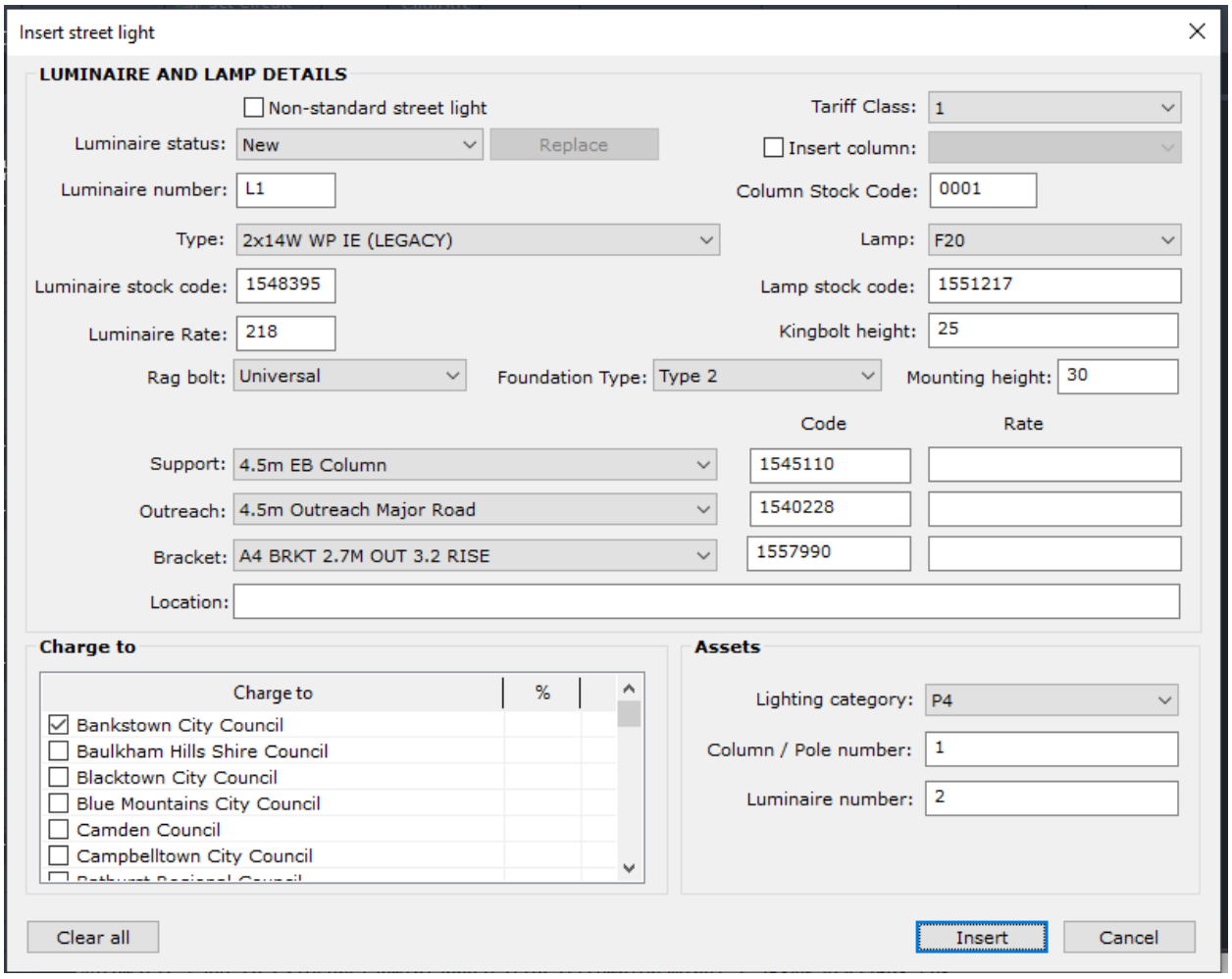


INSERT STREET LIGHT

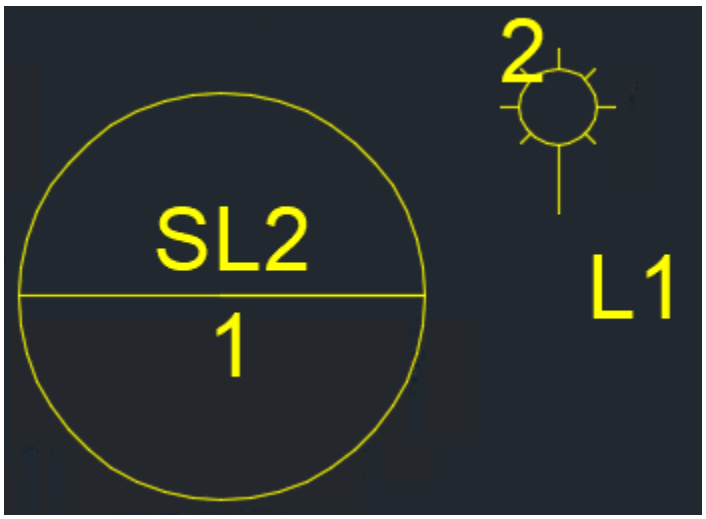
- To add a light symbol to the drawing
    1. Click Insert Street Light button from EE Toolbox ribbon



    2. Enter details in Insert street light dialog
    3. Click Insert button
    4. Click Insertion point
    5. Enter rotation angle
    6. Press Esc key to close the command or Enter key to return to dialog


Insert street light
LUMINAIRE AND LAMP DETAILS
Non-standard street light
Tariff Class: 1
Luminaire status: New
Replace
Insert column:
Luminaire number: L1
Column Stock Code: 0001
Type: 2x14W WP IE (LEGACY)
Lamp: F20
Luminaire stock code: 1548395
Lamp stock code: 1551217
Luminaire Rate: 218
Kingbolt height: 25
Rag bolt: Universal
Foundation Type: Type 2
Mounting height: 30
Code
Rate
Support: 4.5m EB Column 1545110
Outreach: 4.5m Outreach Major Road 1540228
Bracket: A4 BRKT 2.7M OUT 3.2 RISE 1557990
Location:
Charge to
Charge to
%
Bankstown City Council
Baulkham Hills Shire Council
Blacktown City Council
Blue Mountains City Council
Camden Council
Campbelltown City Council
Assets
Lighting category: P4
Column / Pole number: 1
Luminaire number: 2
Clear all
Insert
Cancel

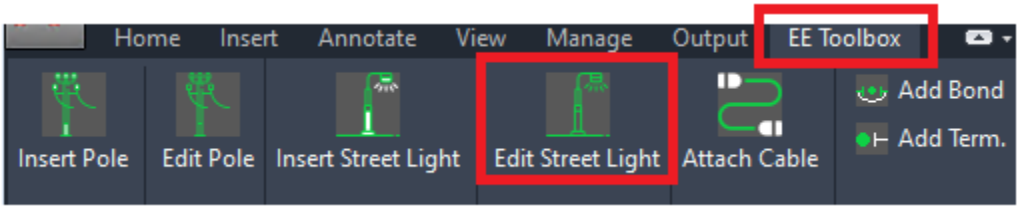
Output:


2
SL2
1
L1

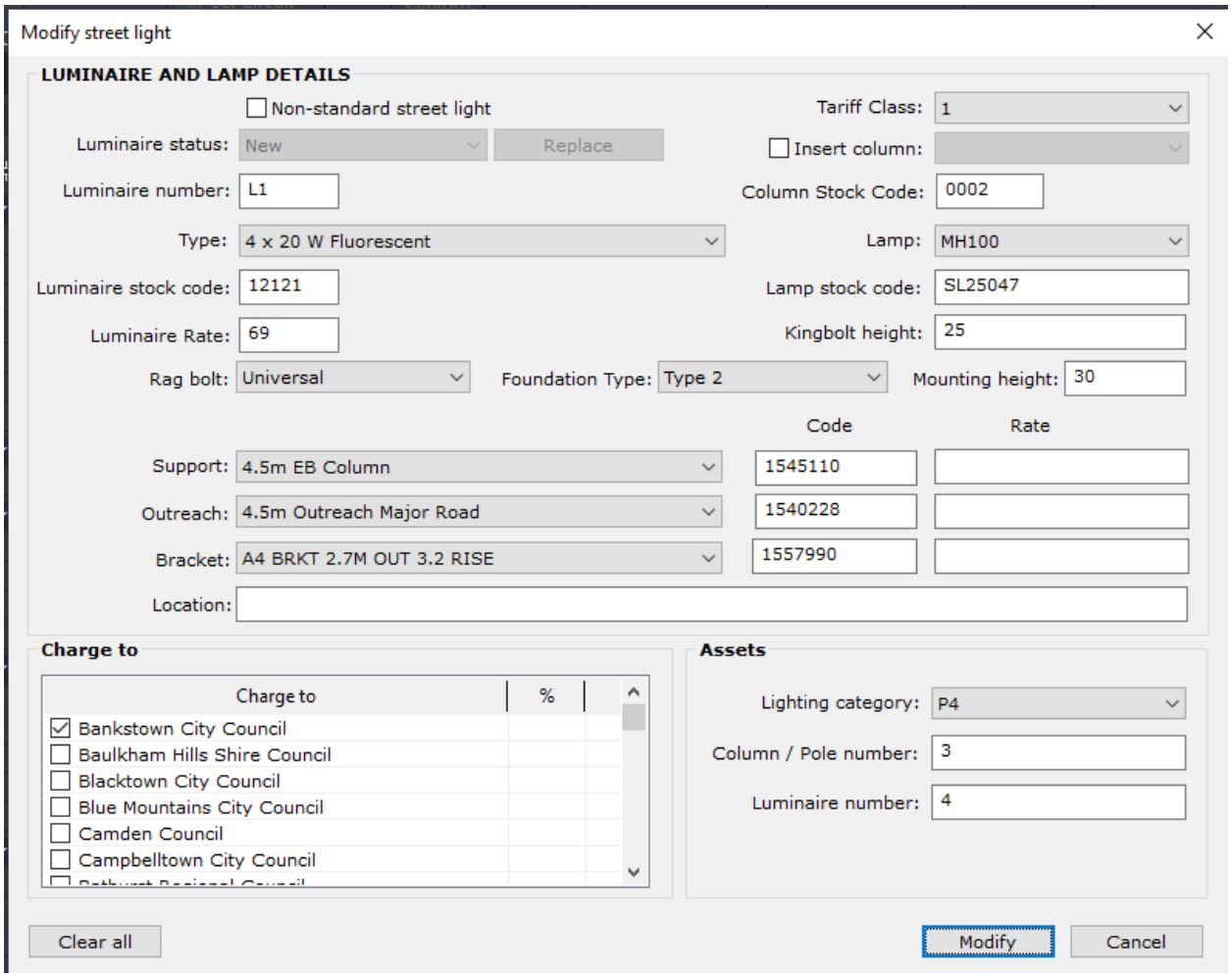
EDIT STREET LIGHT

- To modify a streetlight's details

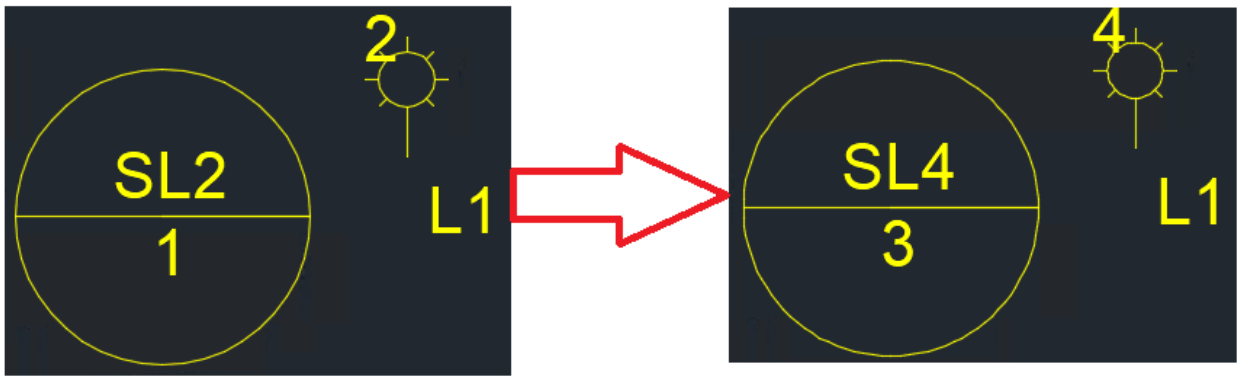
1. Click Edit Street Light button from EE Toolbox ribbon



2. Select Streetlight object to edit
3. Change required details in Modify street light dialog
4. Click Modify button



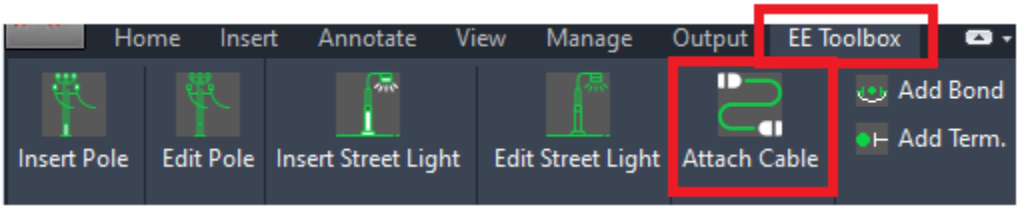
Output:



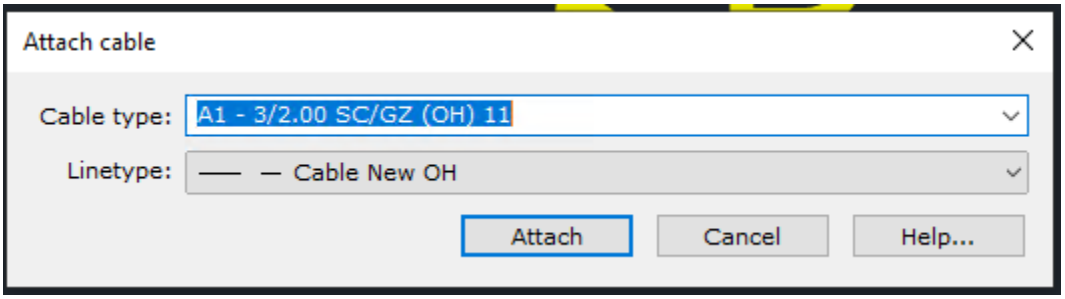
ATTACH CABLE

- To attach cables to the selected

1. Click Attach Cable button from EE Toolbox ribbon

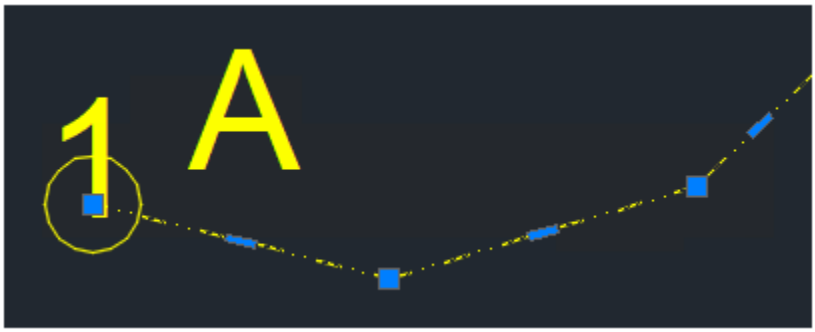


2. Select Cable type and Line in Attach cable dialog



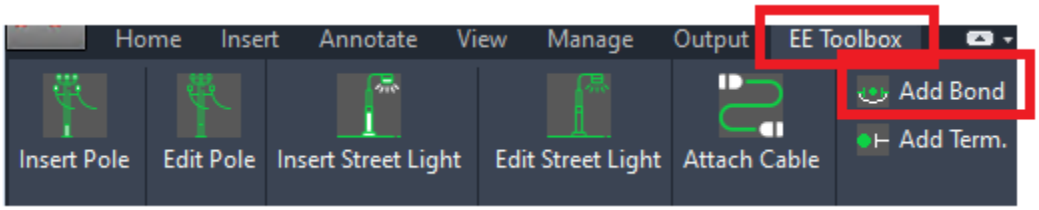
3. Click Attach button
4. Select required Pole and press Enter key
5. Select required points for cable or press Enter key to select another poles
6. Press Esc key to close the command

Output:



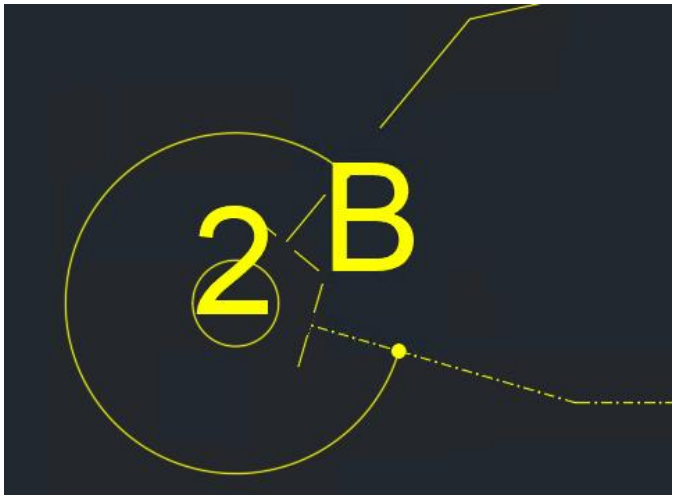
ADD BOND

- To insert a bond between cables.
    1. Click Add Bond button from EE Toolbox ribbon



    2. Select Pole which has 2 or more cables
    3. Select required cables and press Enter key
    4. Select bond status and connector type

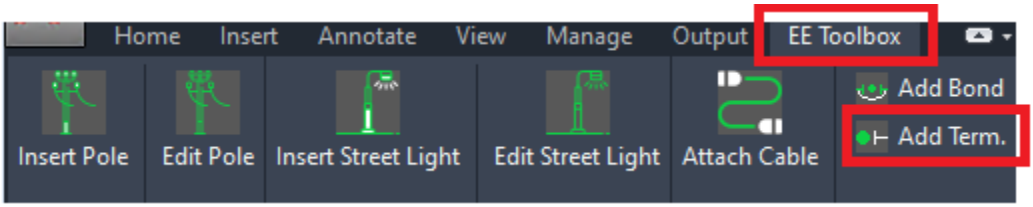
Output:



ADD TERM.

- To insert terminations on cables.

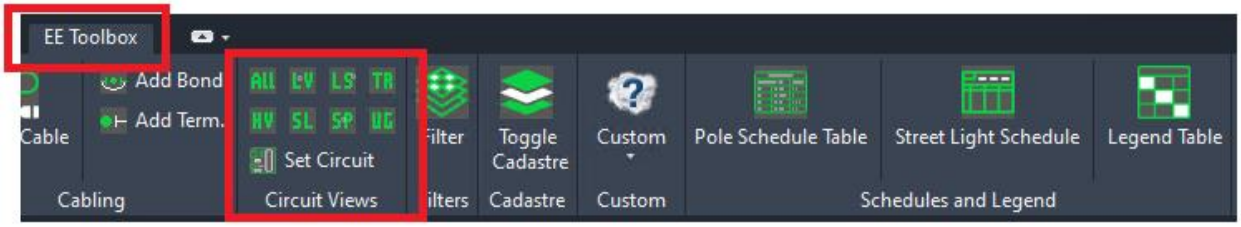
1. Click Add Term. button from EE Toolbox ribbon



2. Select required Poles which has cables
3. Press Enter key

Output:

CIRCUIT VIEWS



ALL: It will display all layers

LV: It will display Low Voltage layers

LS: It will display LV and Streetlights layers

TR: It will display Transmission layers

HV: It will display High Voltage layers

SL: It will display Streetlight layers

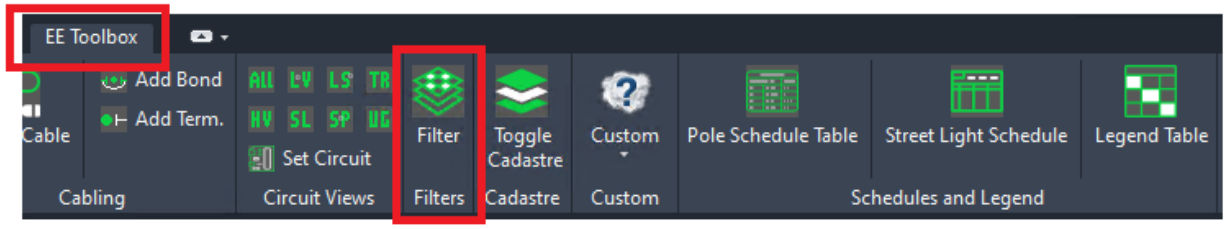
SP: It will display only layer associated with the Site Plan

UG: It will display Underground layers

Set Circuit: It will switch on the layers which has the given option string in its name. And "0" layer will be set as current

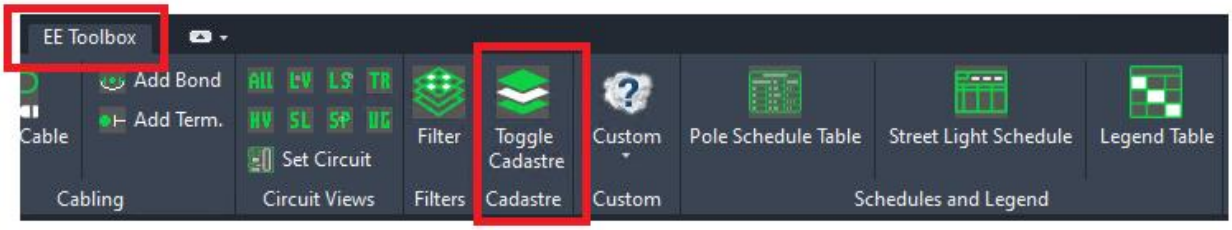
FILTER

- It will open the Layers Properties Manager dialog.
    1. Click Filter button from EE Toolbox ribbon



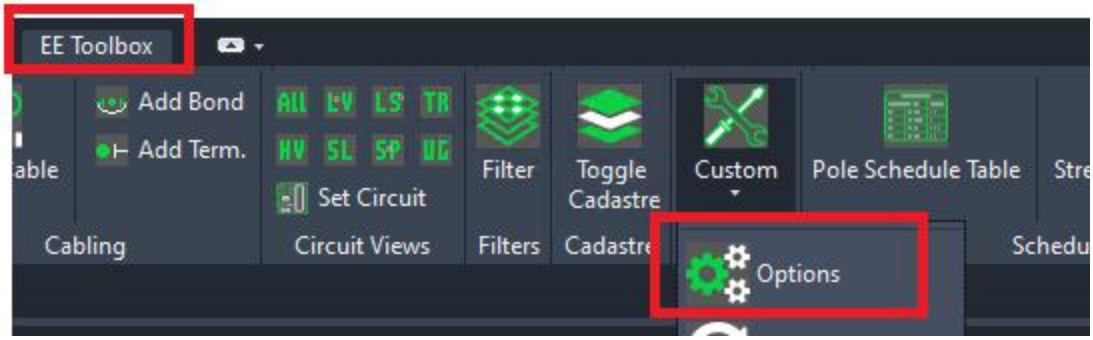
TOGGLE CADASTRE

- It will toggle the display of cadastre layers.
    1. Click Toggle Cadastre button from EE Toolbox ribbon

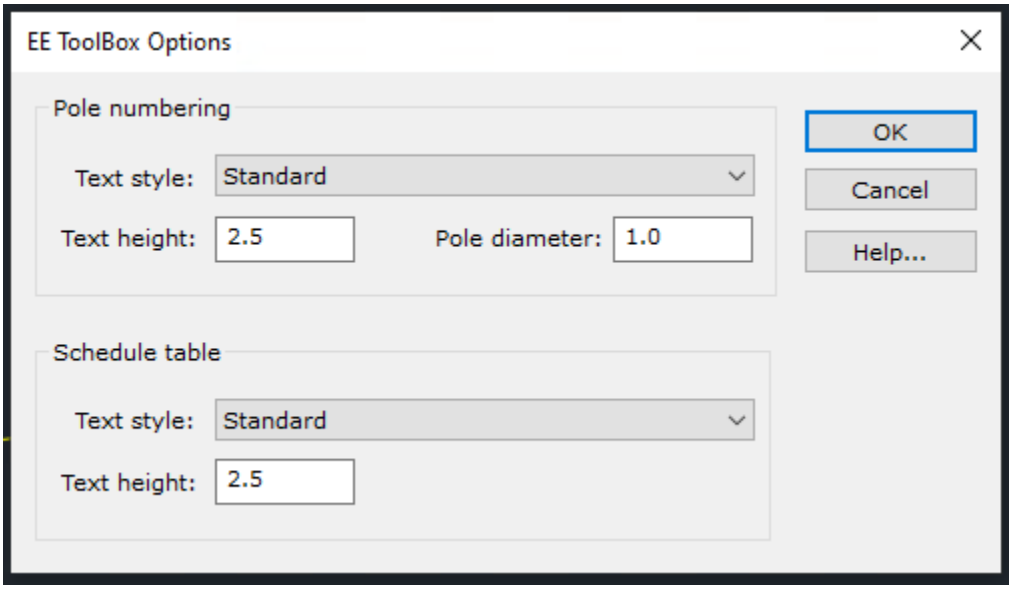


OPTIONS

- To setup standards for Pole numbering and schedule table.
    1. Click Custom dropdown in EE Toolbox ribbon and click Options button



2. Change the Pole numbering and schedule table details in EE ToolBox Options dialog
3. Click OK button.

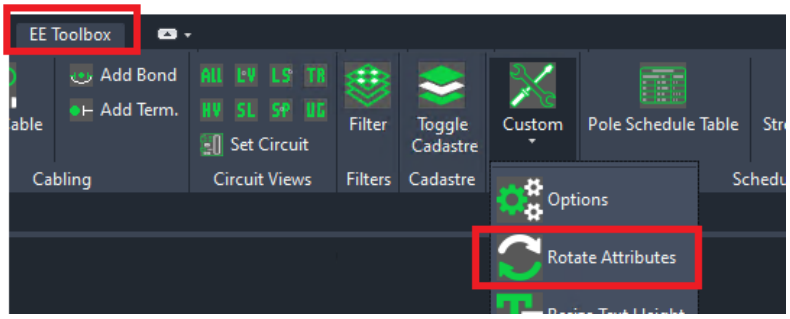


4. Run Insert Pole and Pole Schedule table commands. The inserted pole text standards will be changed

ROTATE ATTRIBUTES

- It will rotate asset numbers of selected blocks into 0 degree.

1. Click Custom dropdown in EE Toolbox ribbon and click Rotate Attributes button

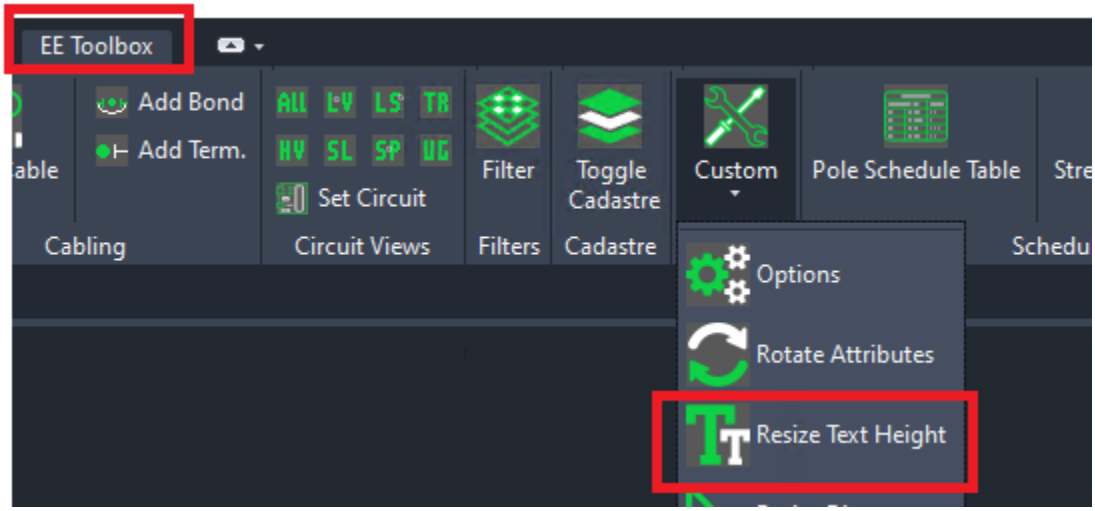


2. Select required blocks
3. Press Enter key

Output:

RESIZE TEXT HEIGHT

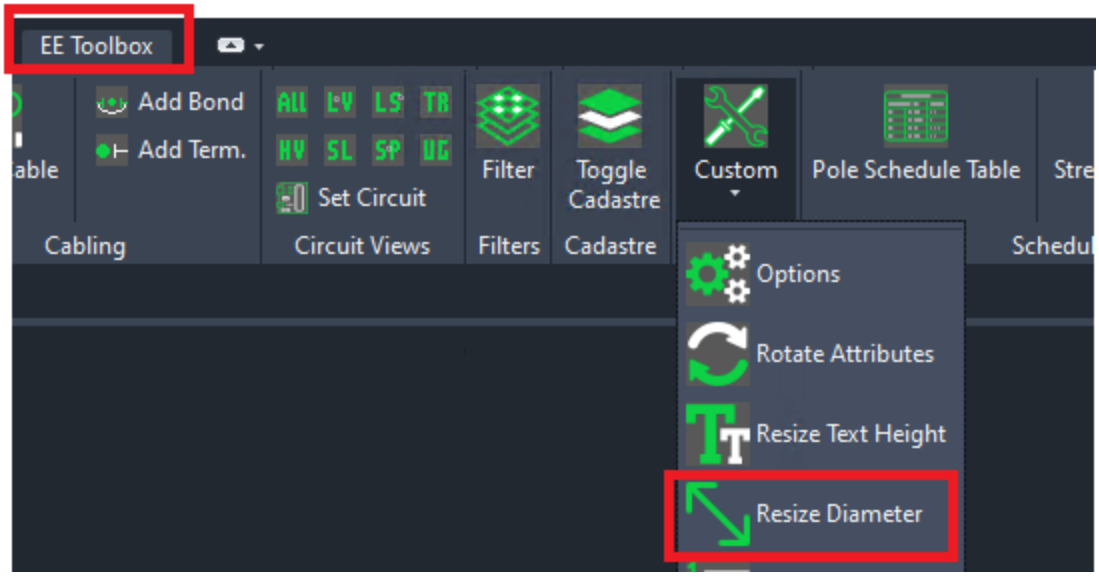
- It will change the text height of pole numbers.
    1. Click Custom dropdown in EE Toolbox ribbon and click Resize Text Height button



2. Enter text height value for pole numbers
3. Select required Pole objects
4. Press Enter key

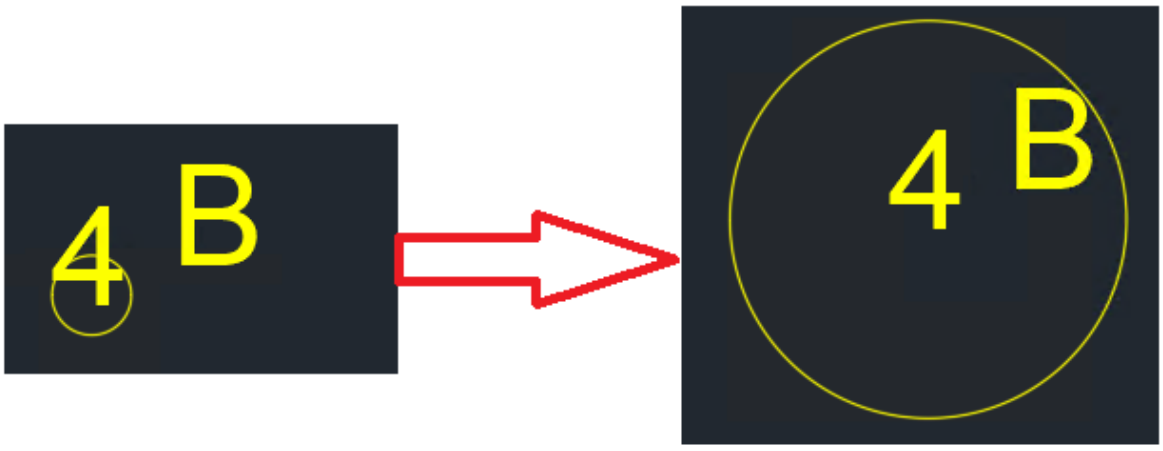
RESIZE DIAMETER

- It will change the pole size.
    1. Click Custom dropdown in EE Toolbox ribbon and click Resize Diameter button



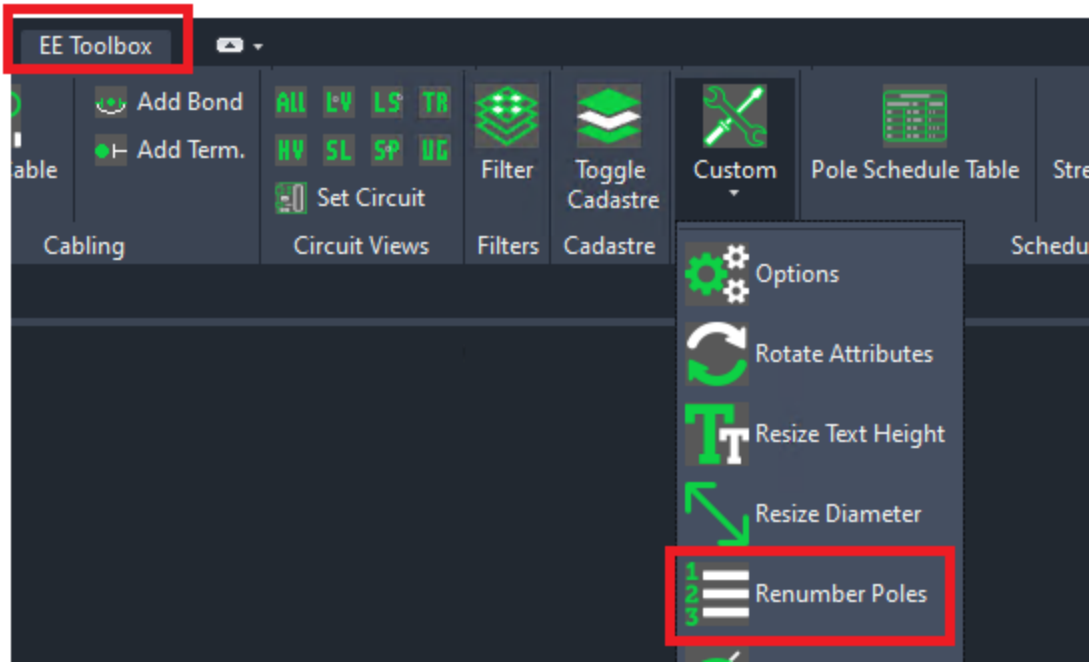
2. Enter Pole diameter value
3. Select required pole objects
4. Press Enter key

Output:



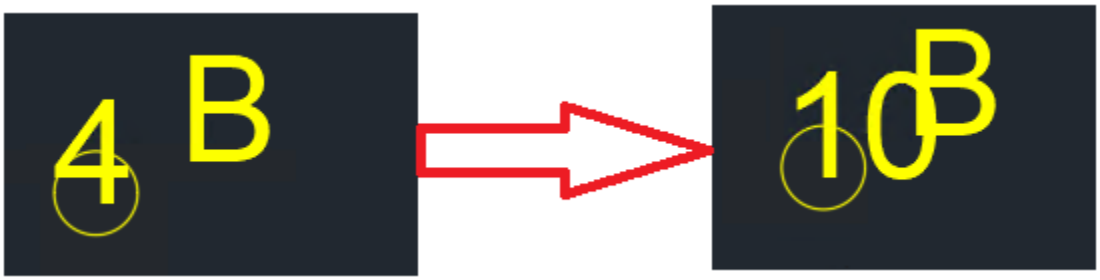
RENUMBER POLES

- It will change the selected pole numbers.
    1. Click Custom dropdown in EE Toolbox ribbon and click Renumber Poles button



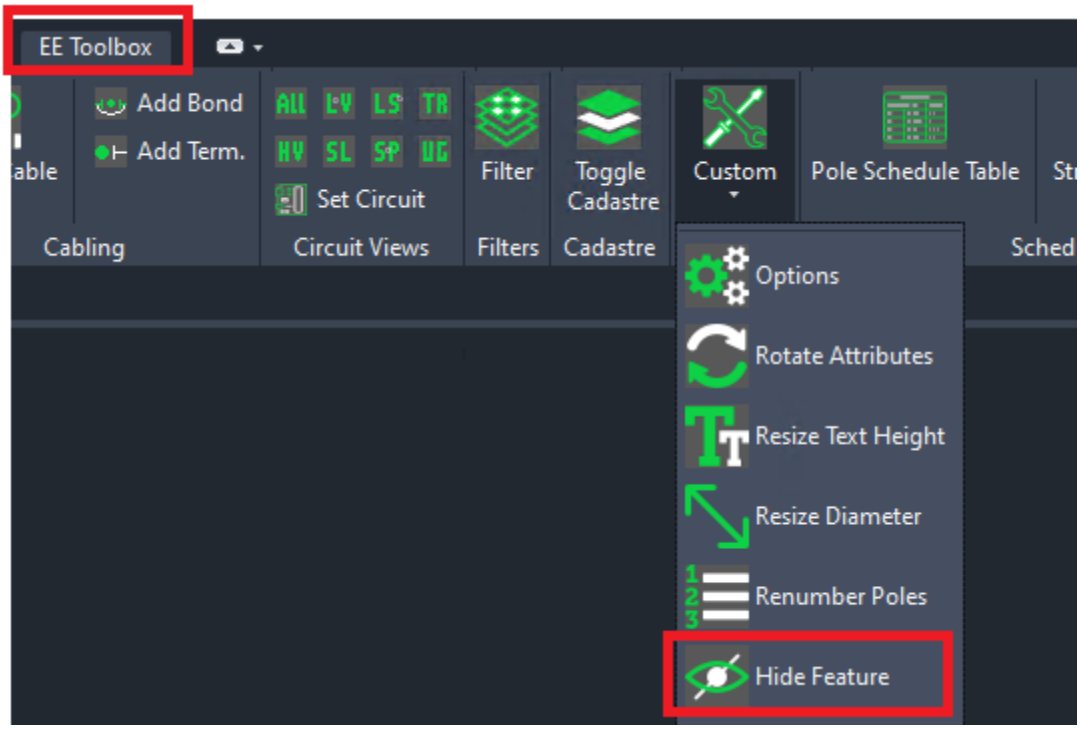
2. Enter starting pole number
3. Select required poles
4. Press Enter key

Output:



HIDE FEATURES

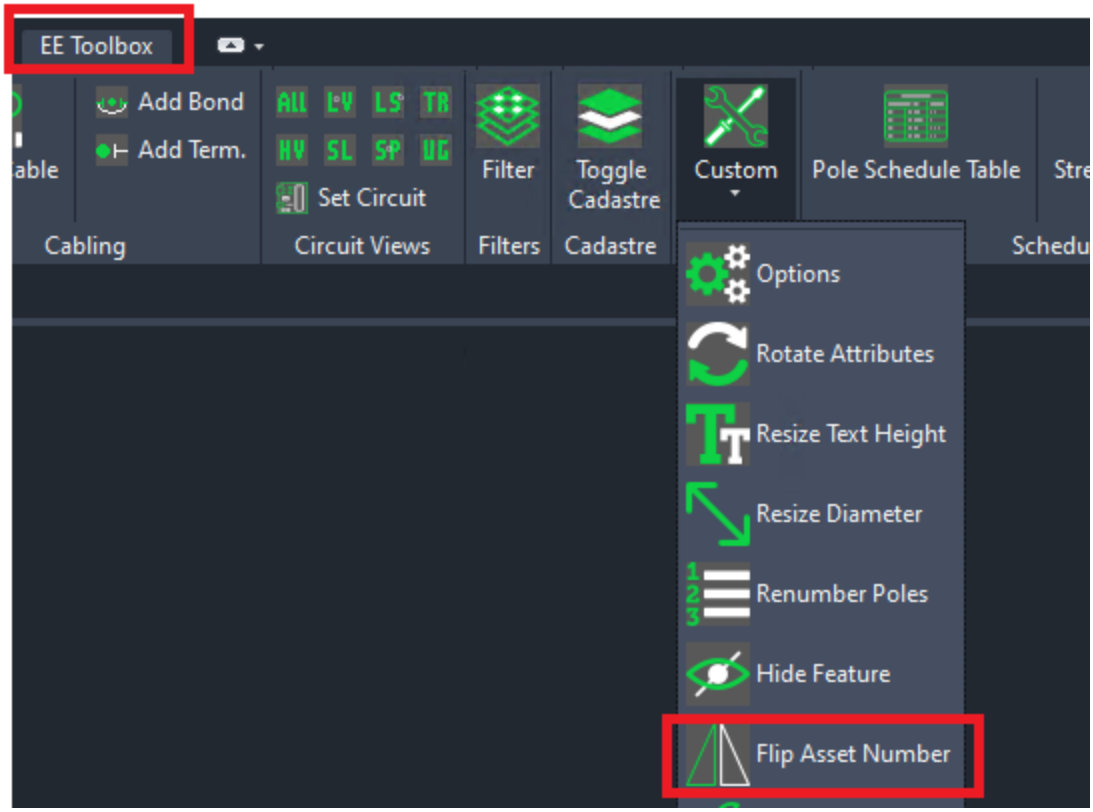
- It will hide the selected features.
    1. Click Custom dropdown in EE Toolbox ribbon and click Hide Features button



2. Select required features that need to be hide
3. Press Enter key

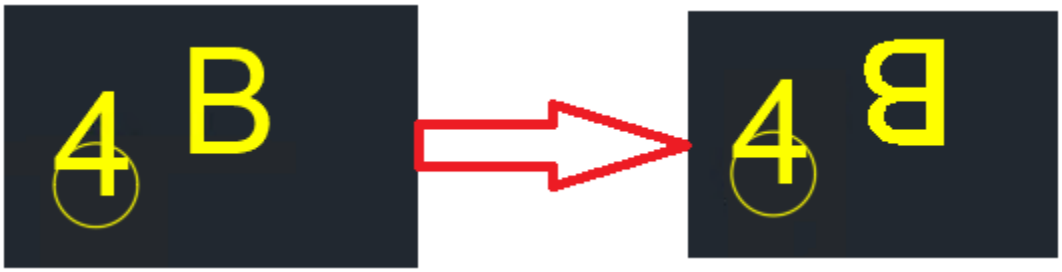
FLIP ASSET NUMBER

- It will flip the asset numbers in selected features in top or bottom.
    1. Click Custom dropdown in EE Toolbox ribbon and click Flip Asset Number button



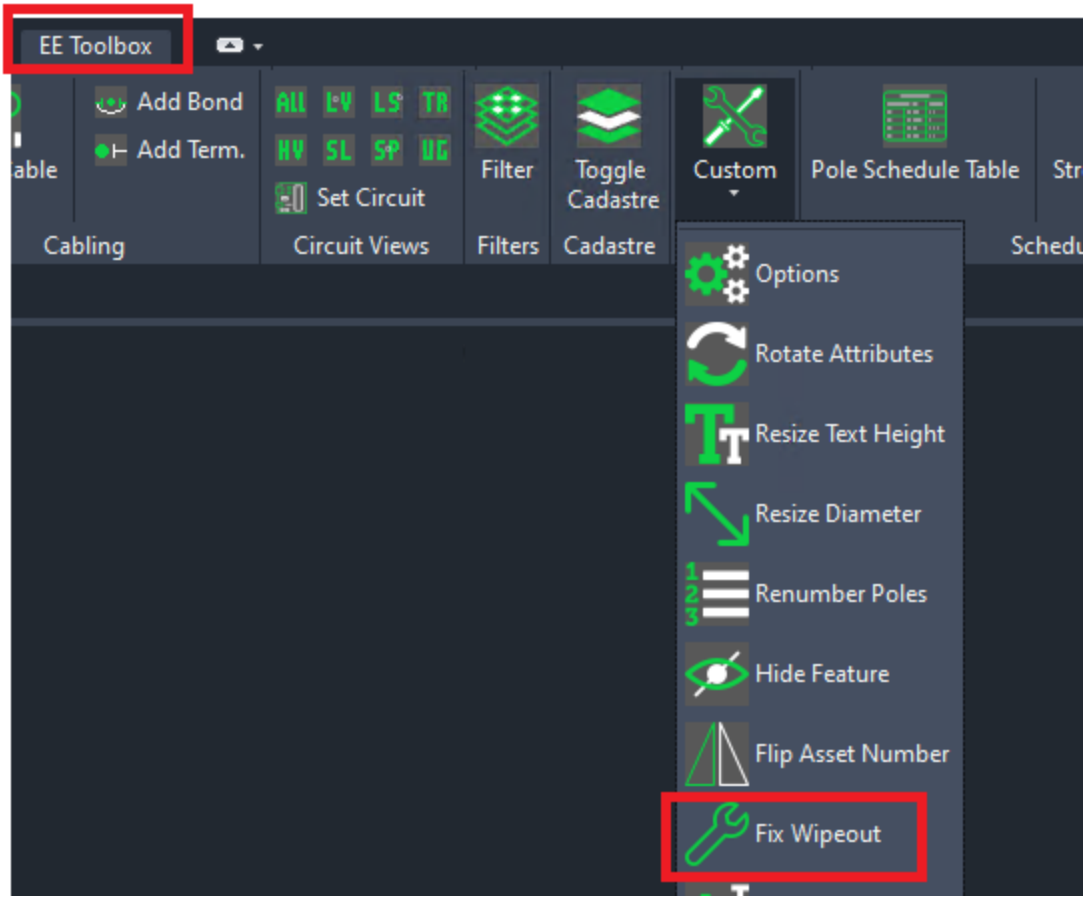
2. Select required features
3. Press Enter key

Output:



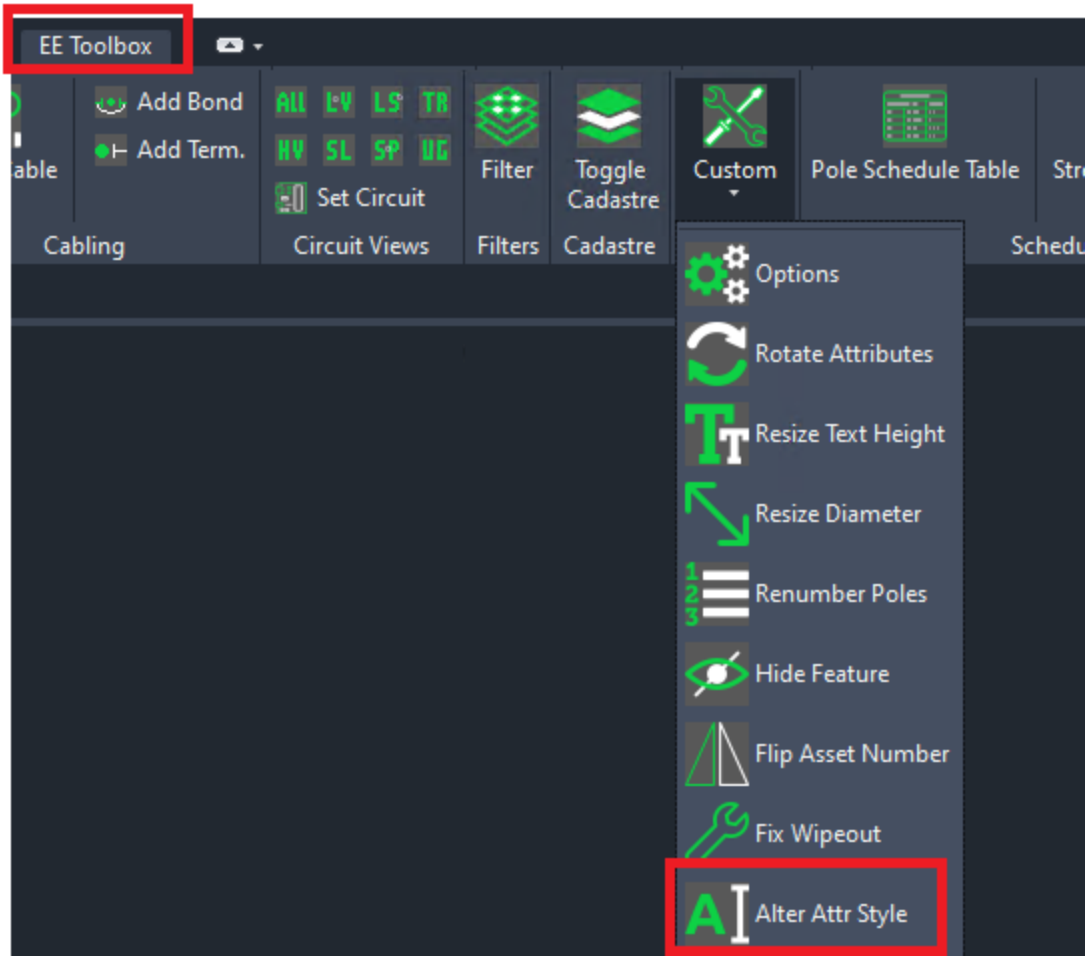
FIX WIPEOUT

- It will move the draw order of Wipeout entities from block references.
    1. Click Custom dropdown in EE Toolbox ribbon and click Fix Wipeout button

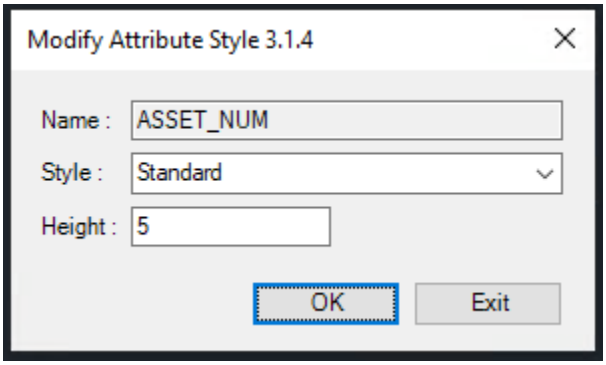


ALTER ATTR STYLE

- It will change the text height and style for the attribute "ASSET_NUM" in selected blocks.
    1. Click Custom dropdown in EE Toolbox ribbon and click Alter Attr Style button



2. Select required blocks
3. Enter Text style and Text height in Modify Attribute Style dialog

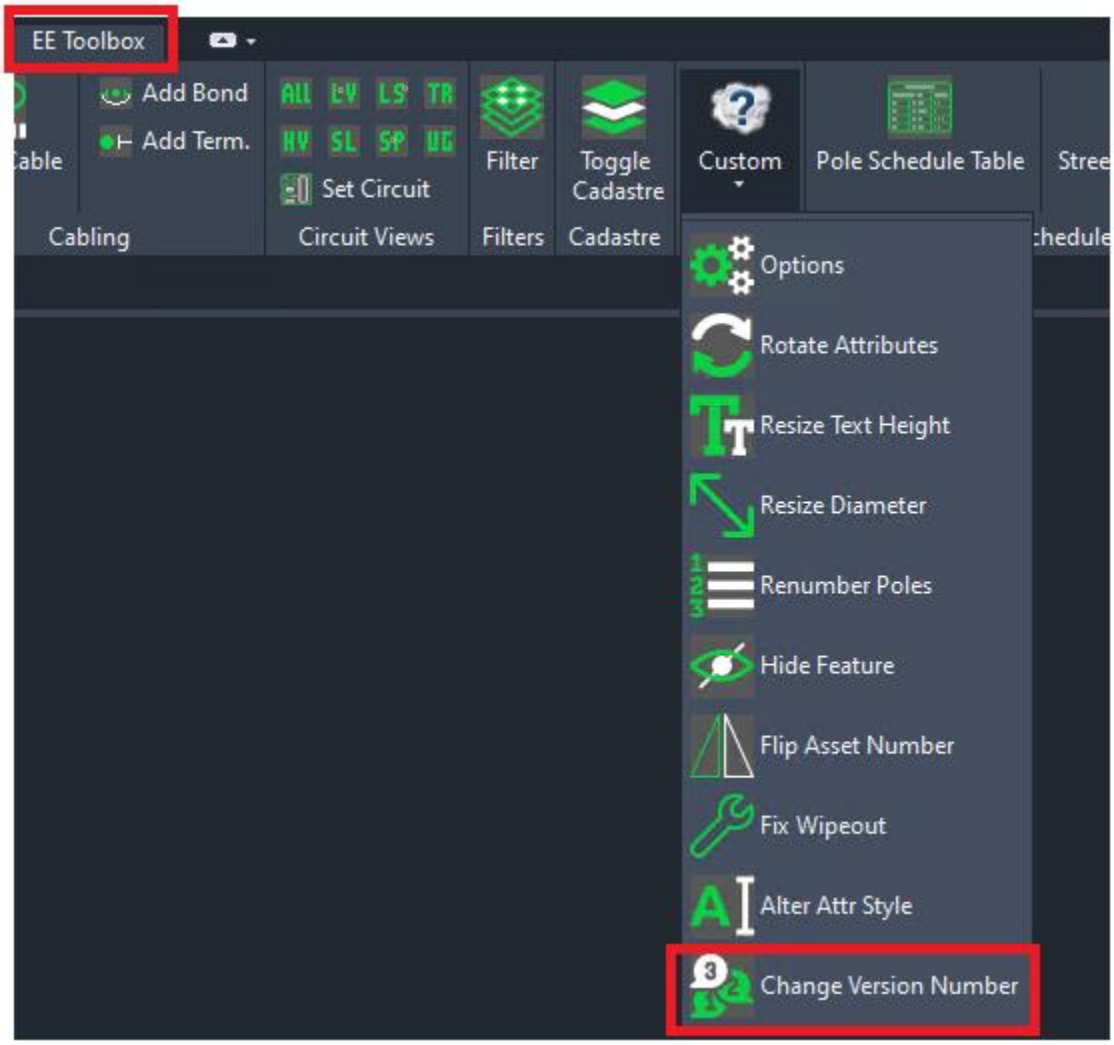


4. Click OK button

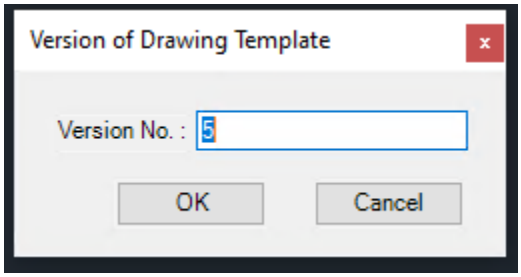
CHANGE VERSION NUMBER

- It will change the "Version_No" Xrecord value in "EEVER_DICT" Dictionary in current template drawing database.

1. Open Template (.dwt) file
2. Click Custom dropdown in EE Toolbox ribbon and click Change Version Number button



3. Enter version number in Version of Drawing Template dialog

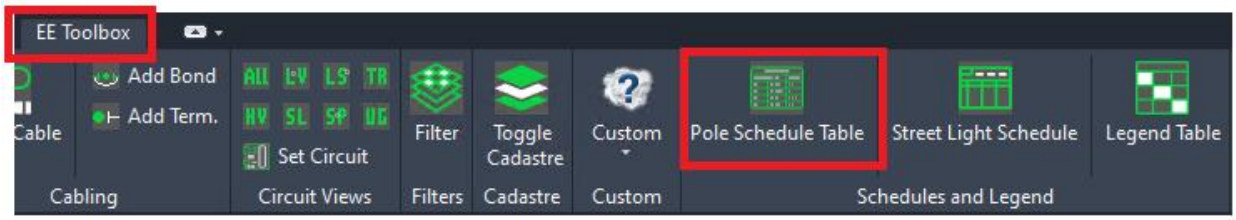


4. Click OK button

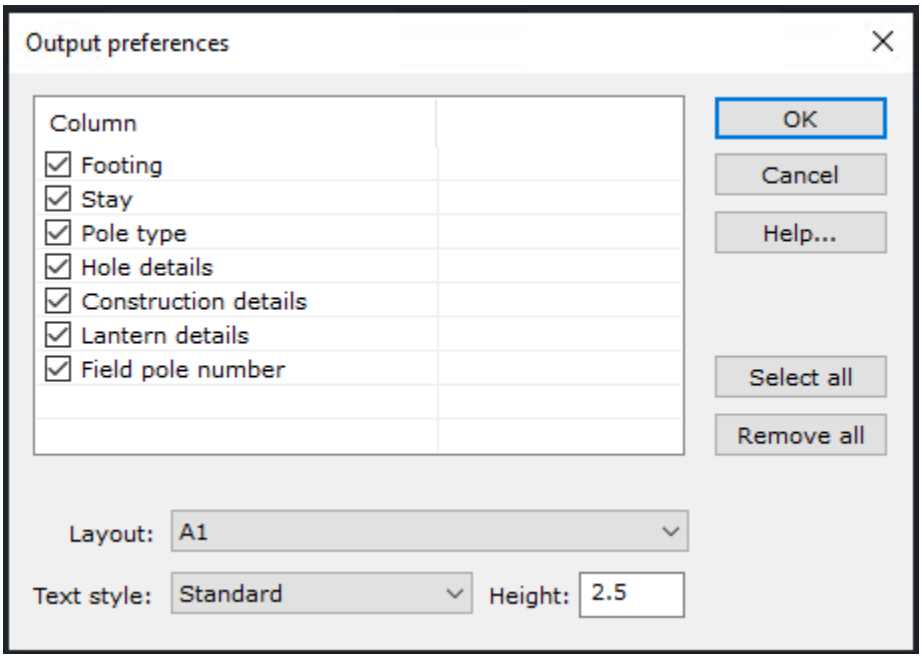
POLE SCHEDULE TABLE

- It will generate the schedule table of selected poles in the drawing.

1. Click Pole Schedule Table button in EE Toolbox ribbon



2. Select required Pole objects and press Enter key
3. Select required columns, layout, text style & height in output references dialog



4. Click OK button
5. The application will switch to selected layout. Select insertion point in the layout

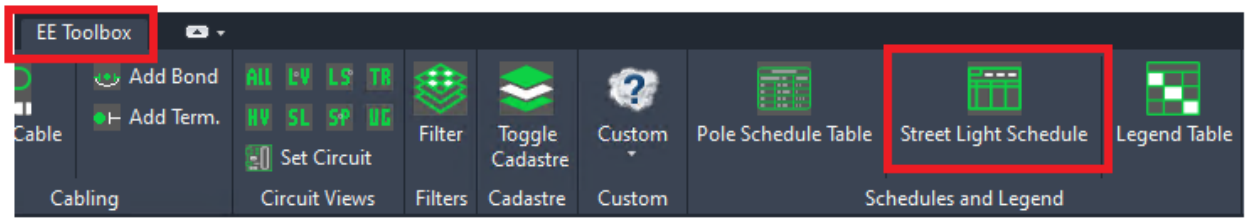
Output:

A		X				A4 & FLCI amp	20	90	A21	A01	750	2.4	8/30		C			X			1
NEW	EXISTING	NEW	REMOVE	EXISTING	REPLACE	BRACKET	SPAN LENGTH	LINE DEV DEGREES	HV	LV	DIA mm	DEPTH m	TYPE	STAY	FOOTING	RELOCATE	REPLACE	NEW	EXISTING	REMOVE	NUMBER
FIELD POLE NUMBER		LANTERNS					CONSTRUCTION				HOLE		POLE								

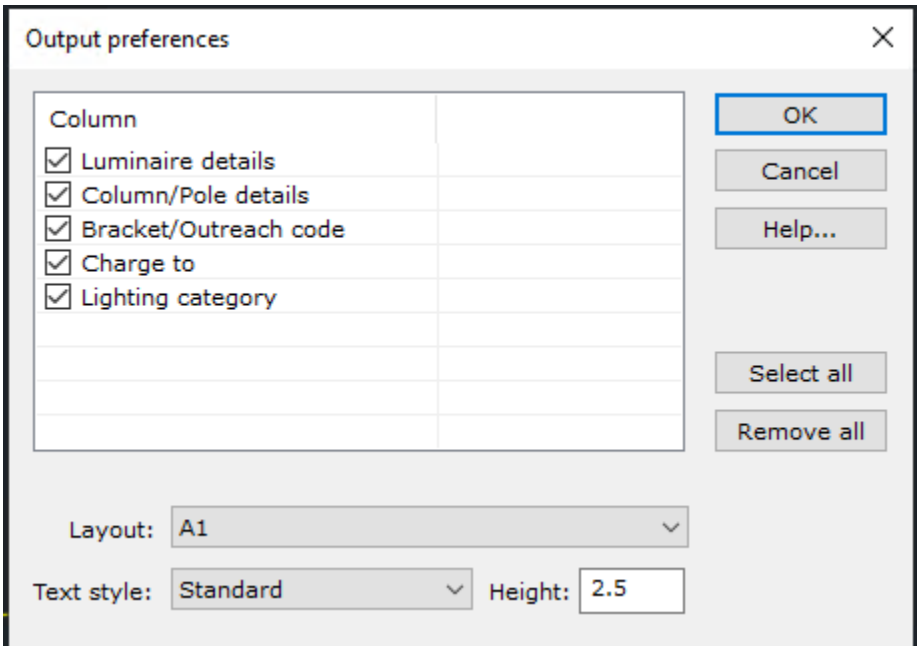
STREETLIGHT SCHEDULE TABLE

- It will generate the schedule table of selected streetlights in the drawing.

1. Click Streetlight Schedule Table button in EE Toolbox ribbon

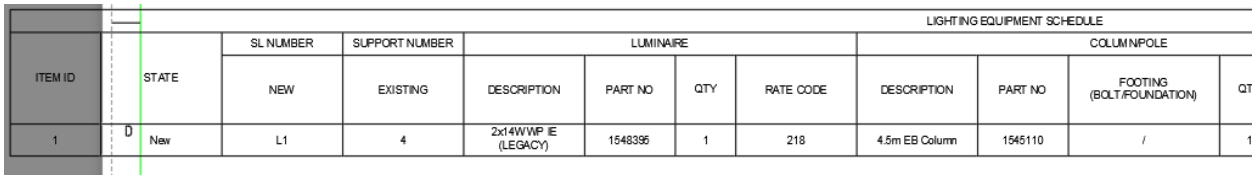


2. Select required Streetlight objects and press Enter key
3. Select required columns, layout, text style & height in output references dialog



4. Click OK button
5. The application will switch to selected layout. Select insertion point in the layout

Output:



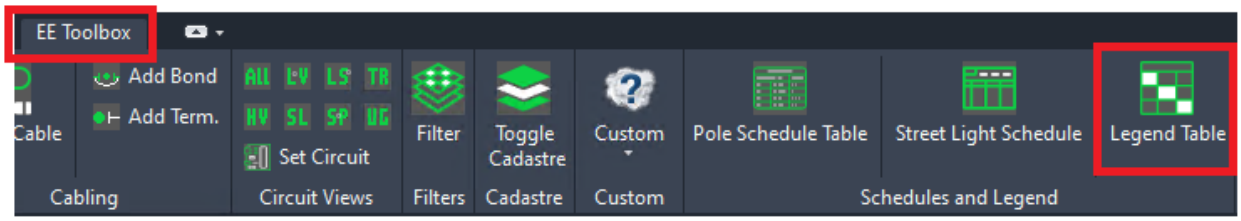
LIGHTING EQUIPMENT SCHEDULE

ITEM ID	STATE	SL NUMBER	SUPPORT NUMBER	LUMINAIRE				COLUMN/POLE			
		NEW	EXISTING	DESCRIPTION	PART NO	QTY	RATE CODE	DESCRIPTION	PART NO	FOOTING (BOLT/FOUNDATION)	QT
1	D New	L1	4	2x14WWP IE (LEGACY)	1548395	1	218	4.5m EB Column	1545110	/	1

LEGEND TABLE

- It will generate the legend table of all distinct symbols placed in the drawing.

1. Click Legend Table button in EE Toolbox ribbon



2. If the user is in model space, the application will switch to paper space
3. Click Insertion point

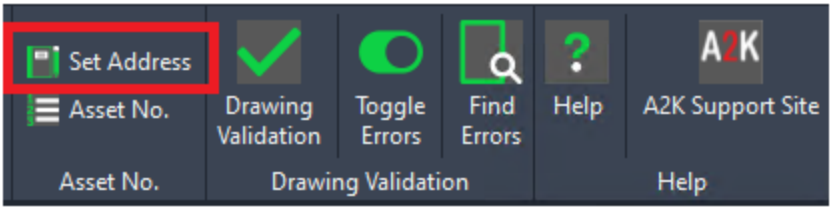
Output:

LEGEND	
	NEW LANTERN
	NEW POLE
XXXXX	NEW PILLAR
	NEW PILLAR
	NEW TOWER
	REPLACE POLE
	REPLACED PILLAR
XXXXX	NEW PILLAR
	NEW PILLAR
	REPLACED CUBICLE
	NEW CUBICLE
	REPLACED COLUMN
	NEW COLUMN
	NEW PADMOUNT SUBSTATION
RG	HV REGULATOR
	NEW SWITCHING STATION
	EXISTING LANTERN

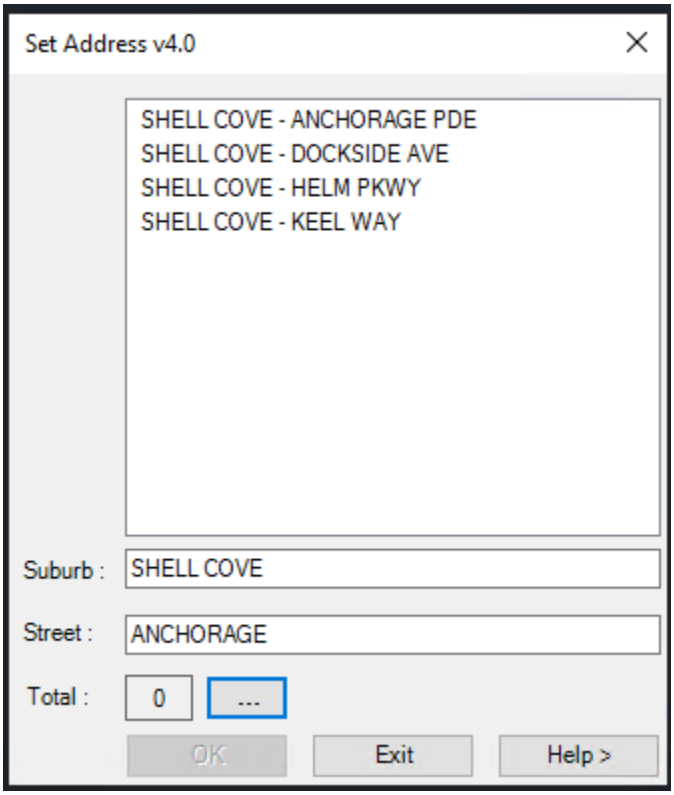
SET ADDRESS

- It is used to globally set the street name and suburb of new assets on a drawing.

1. Click Set Address button in EE Toolbox ribbon



2. The list of existing Suburbs and streets will be displayed in Set Address dialog
3. Select the required suburb and street from the list or enter the details in respective text boxes

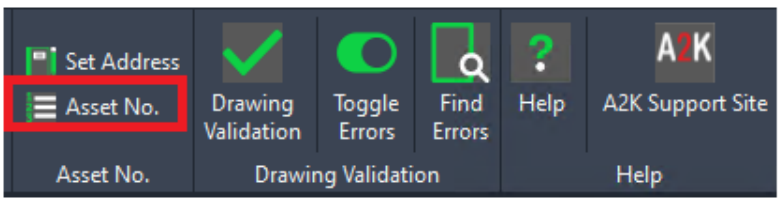


4. Click [...] button, Select required assets and press Enter key
5. Click OK button

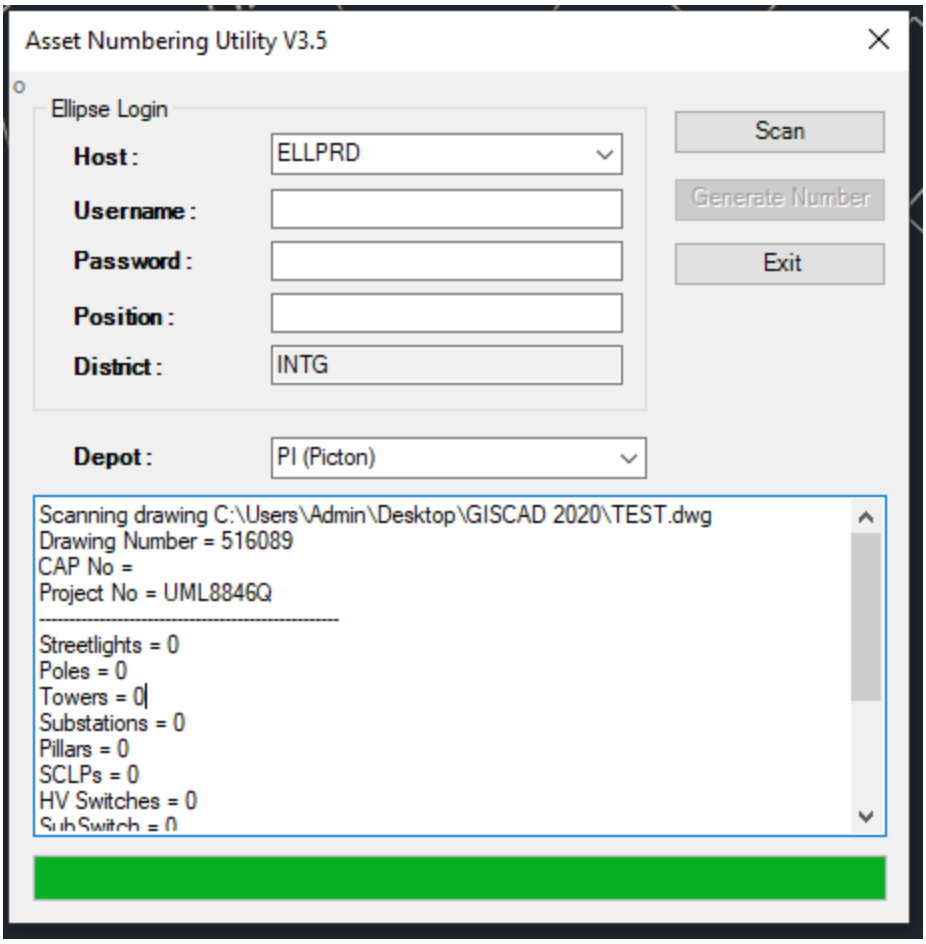
ASSET NO.

- It will generate asset numbers for the Ellipse Equipment Register.

1. Click Asset No. button in EE Toolbox ribbon



2. Select the Ellipse Host environment and Enter your Ellipse user name and password
3. If the user has multiple Ellipse positions then enter your position number. Otherwise left this field empty



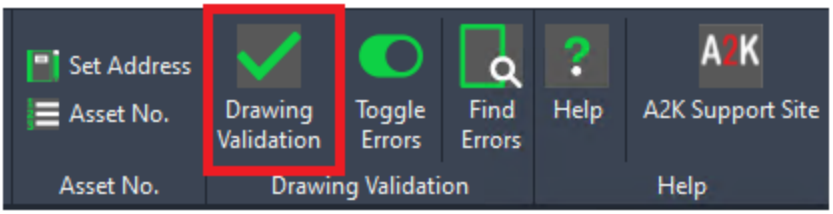
4. Select the depot and select Scan button, it will scan & list the number of new assets
5. Click Generate Numbers button

DRAWING VALIDATION

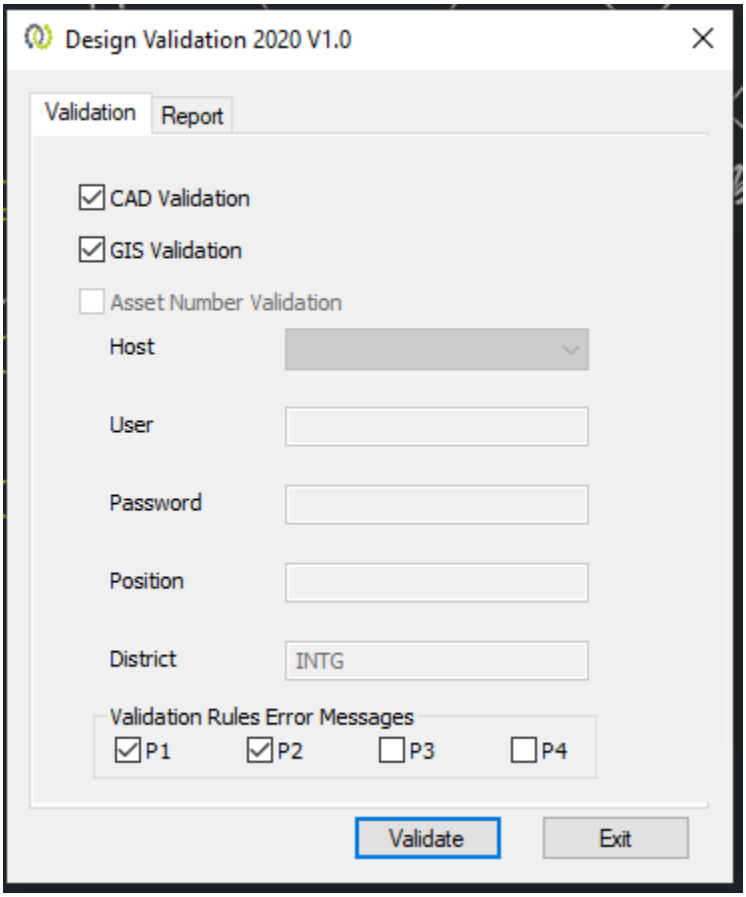
Internal Validation:

- It is used to check that a drawing meets CAD and GIS business rules for successful importation into the GIS and provides report based on that validation.

1. Click Drawing Validation button in EE Toolbox ribbon



2. Select the required validation and validation rules error messages in Design Validation dialog

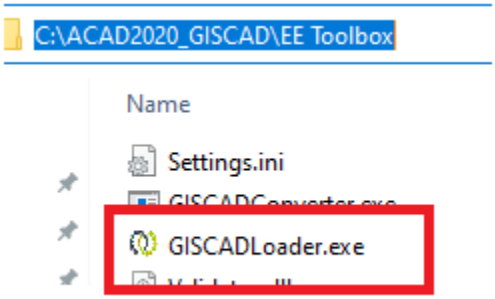


3. Click Validate button. It will check the drawing and provide report
4. Select Report tab and click the url

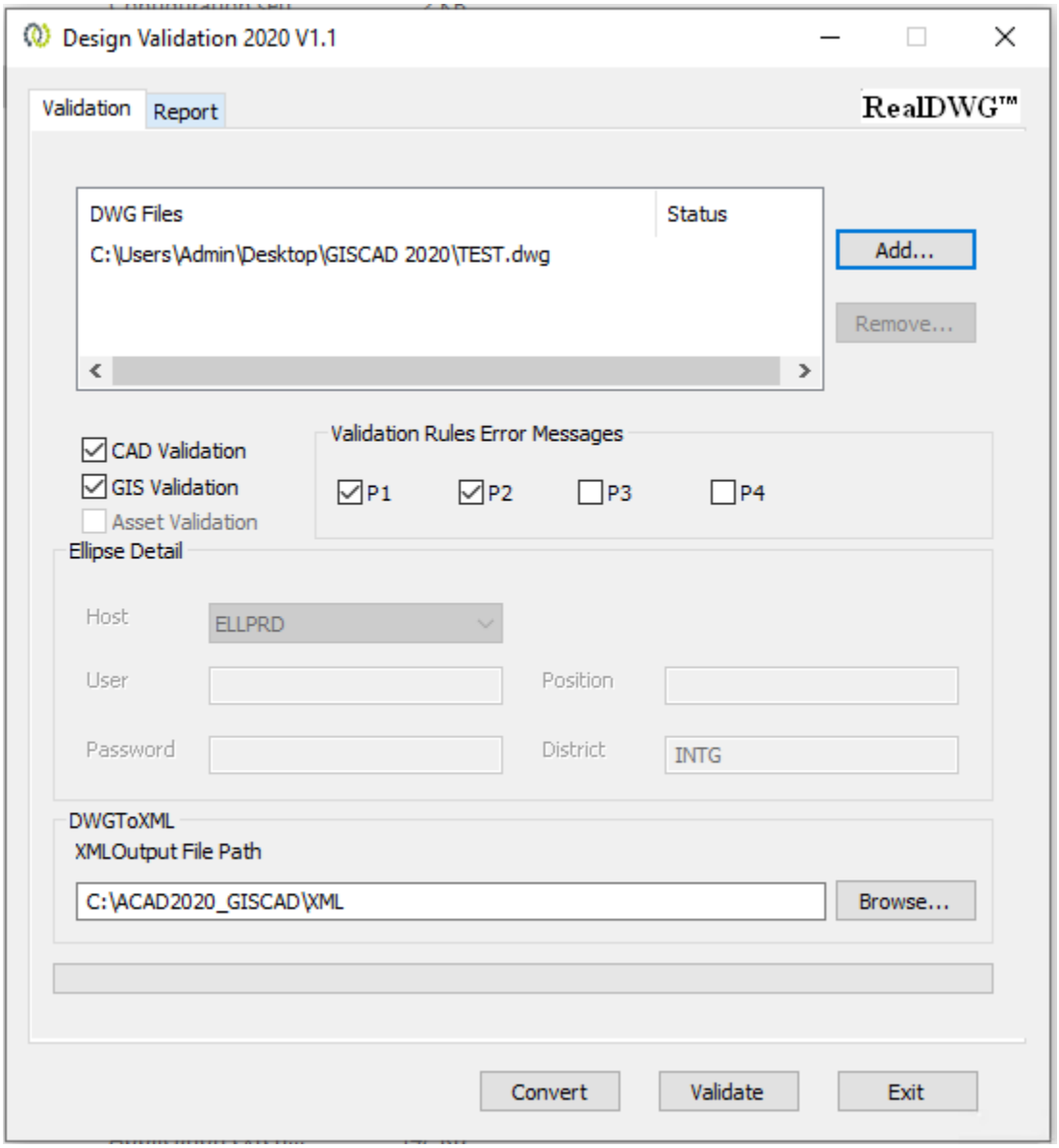
External Validation:

- It is used to check that the selected multiple drawing files meets CAD and GIS business rules for successful importation into the GIS and provide report based on that validation.

1. Run GISCADLoader.exe from the path "C:\ACAD2020_GISCAD\EE Toolbox\"



2. Click Add button in Design Validation dialog and select required drawing files
3. Select required validation and validation rules error messages

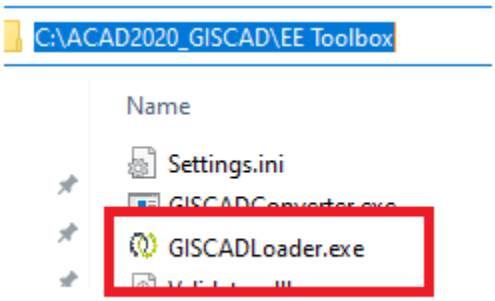


4. Click Validate button

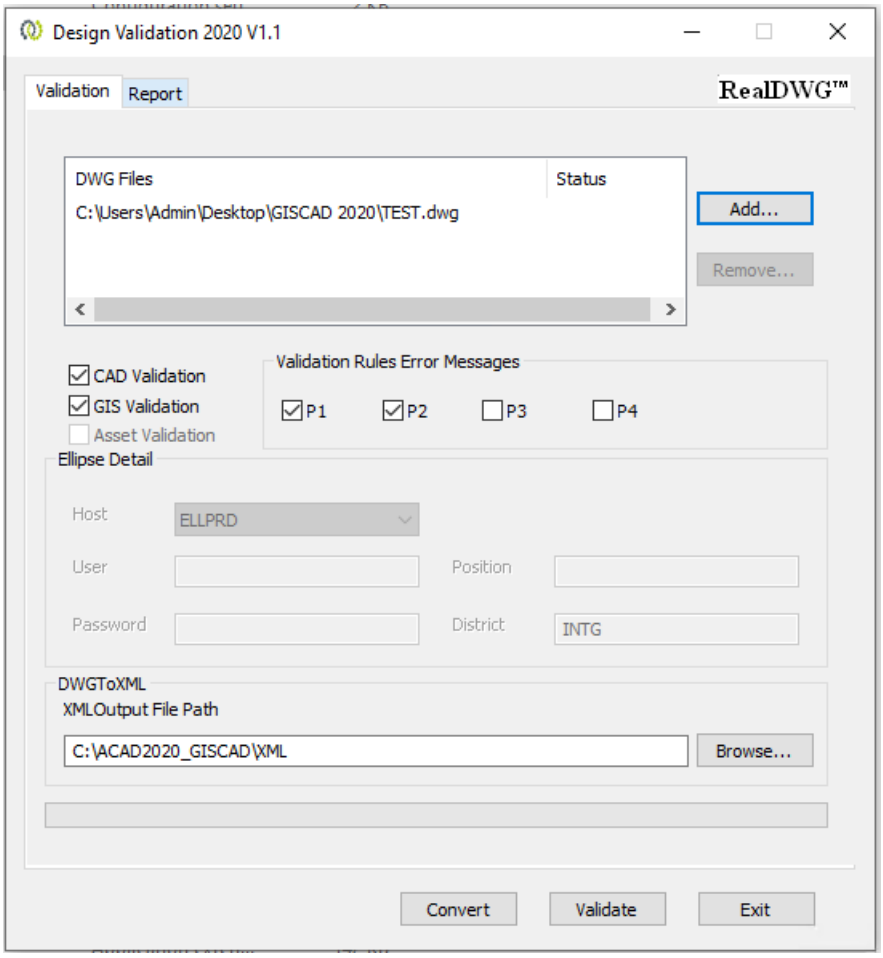
5. Select Report tab and click the url

XML Conversion:

- It will create XML files for the selected drawing files.
    1. Run GISCADLoader.exe from the path "C:\ACAD2020_GISCAD\EE Toolbox\"



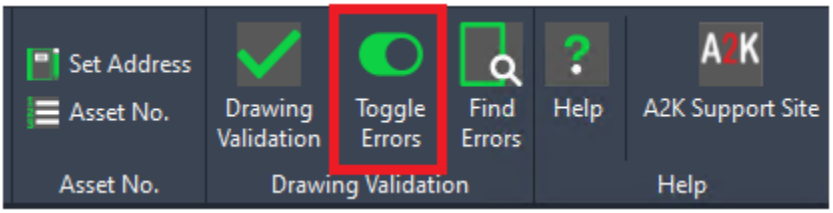
    2. Click Add button in Design Validation dialog and select required drawing files
    3. Select XML output path



4. Click Convert button
5. Select Report tab to check the log

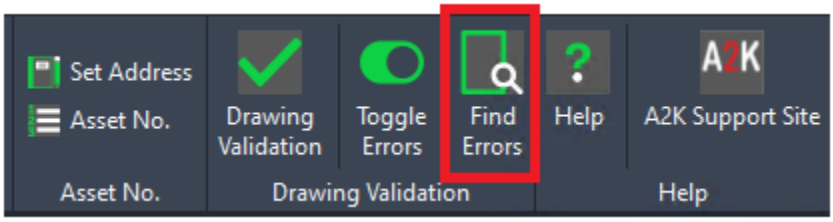
TOGGLE ERRORS

- It will switches on/off the GIS_ERRORS layer which contains errors reported during validation.
    1. Click Toggle Errors button in EE Toolbox ribbon



FIND ERRORS

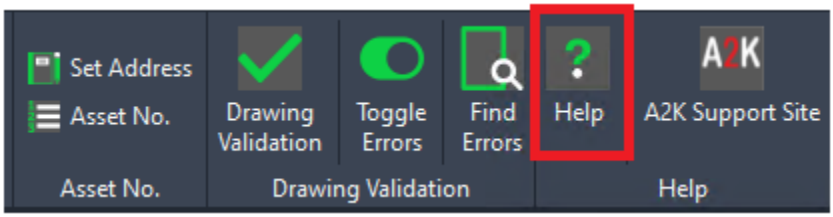
- It will display the list of all errors in the drawing and will allow the user to easily zoom to the selected error.
    1. Click Find Errors button in EE Toolbox ribbon



    2. The list of all errors will be displayed, Select any error from the list
    3. Click Zoom To button

HELP

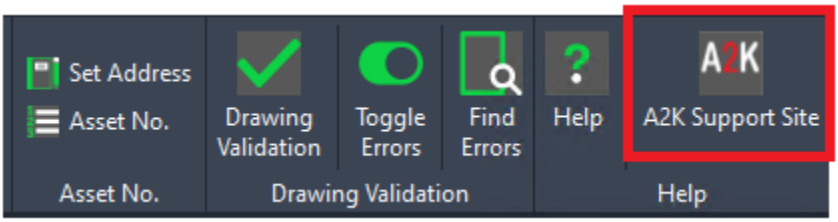
- It will open the GISCAD user guide document.
    1. Click Help button in EE Toolbox ribbon



A2K SUPPORT SITE

- It will open the A2K support web site.

1. Click Help button in EE Toolbox ribbon



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