



# AutoCAD to Revit Detail Translation Possible Software Solution.....

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## **Part 1 - Problem Statement & Solution**

- 1.1 When we can automate whole procedure, why redraw existing Autocad Details in the Revit Drafting view?
- 1.2 There can be two possible accessible methods, as detailed below: (Plug In Based & Website Based)

### **Part A - Plug-In base Userflow :**

- A.1 Importing Autocad/PDF file
- A.2 Selecting scale & other options for the imported file
- A.3 Converting CAD Layers to Revit Lines in one go
- A.4 Final Output

### **Part B - Website base Userflow :**

- B.1 Importing Autocad/PDF file on website
- B.2 Selecting scale & other options for the Uploaded File.
- B.3 Downloading the Generated file.



# Problem Statement & Solution

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PART 1



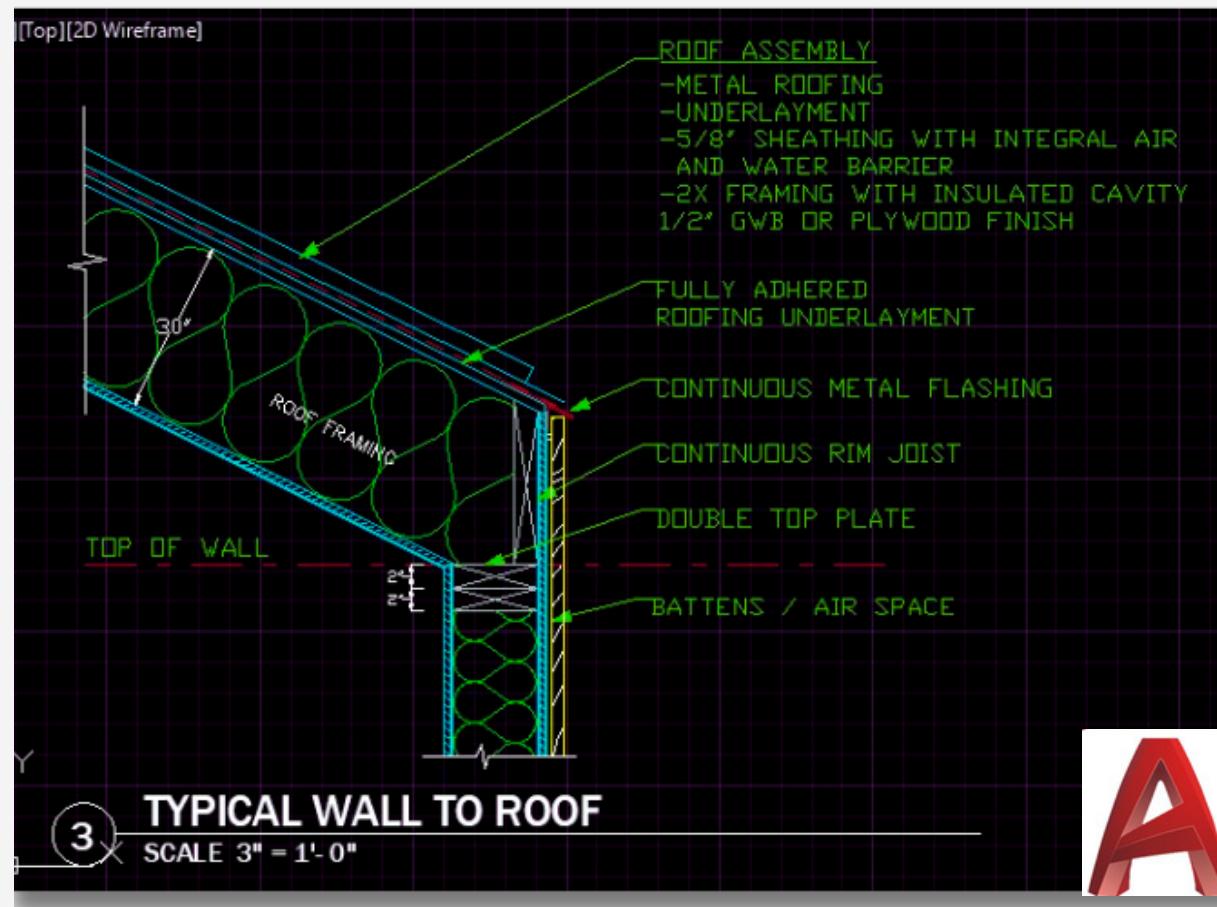
# Part 1 - Statement & Solution



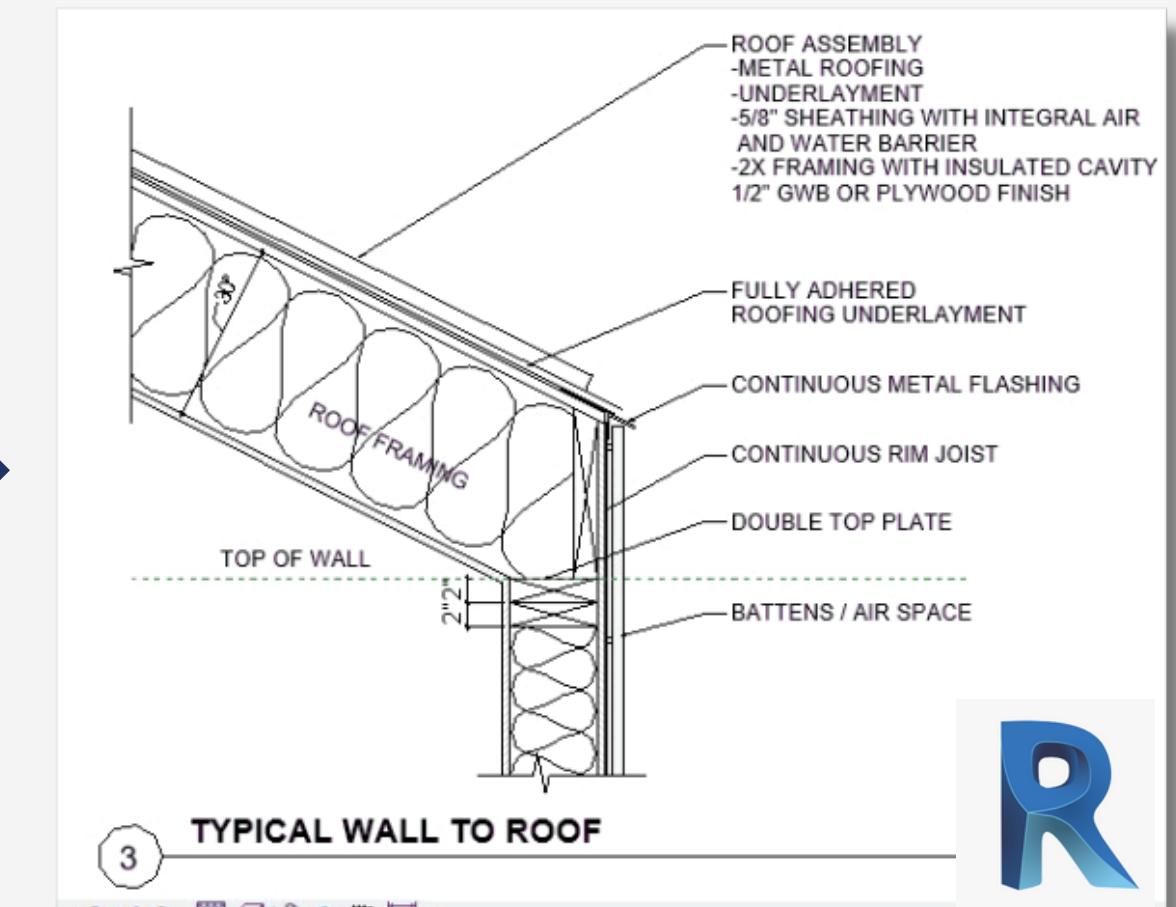
When we can automate whole procedure, why redraw existing Autocad Details in the Revit Drafting view?

- In the markup received from the client, often there's an comment of drafting the details from provided Autocad file to Revit.
- Despite how simple the exercise may seem, it consume a long time to do so.
- Why can't we simply use software to convert the provided detail from Autocad to Revit if it has already been drafted in Autocad? This will undoubtedly assist us in lowering drafting errors and requiring 80% less time.

1.1



Software →  
Intelligence



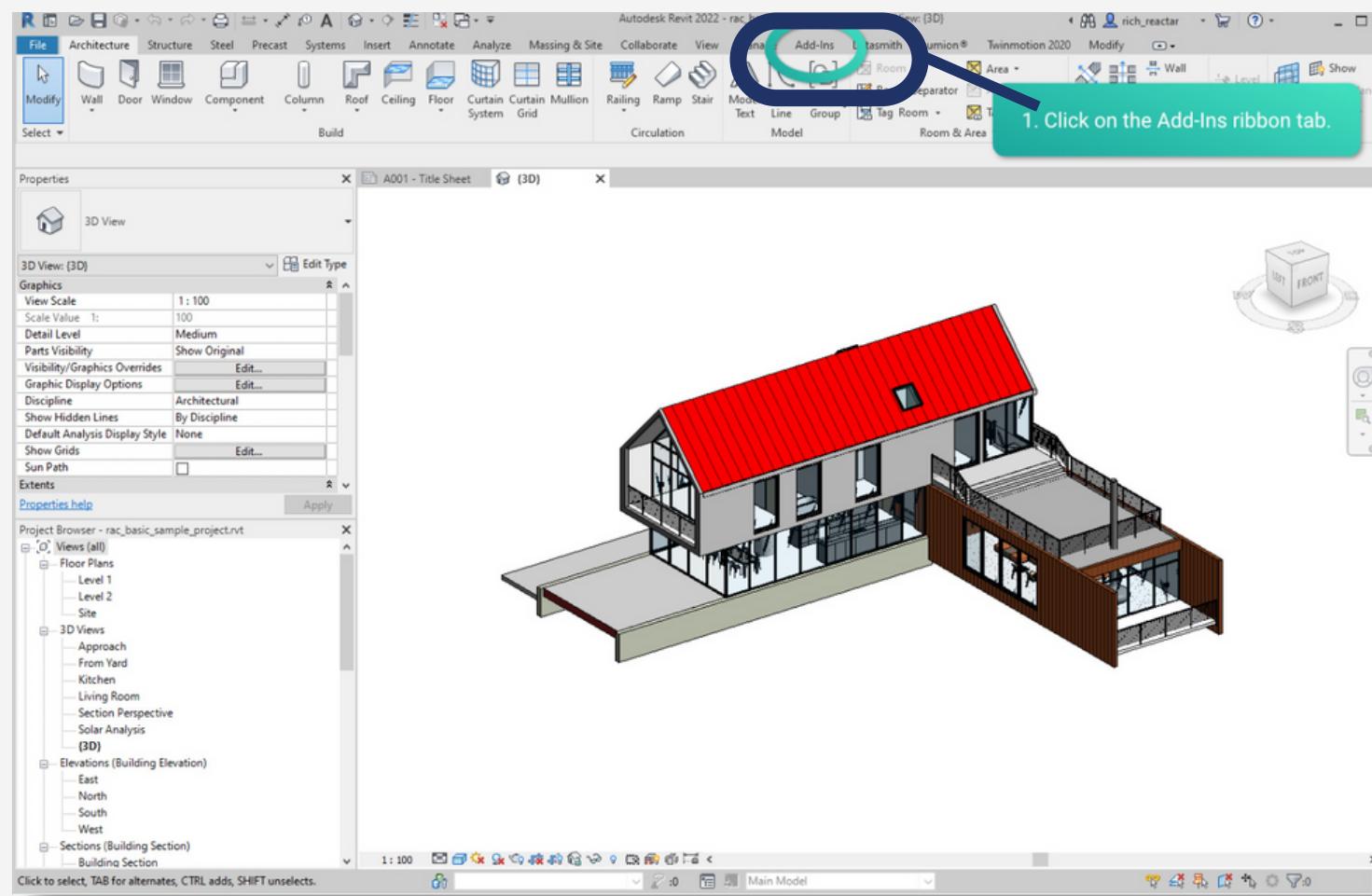
# Part 1 - Statement & Solution



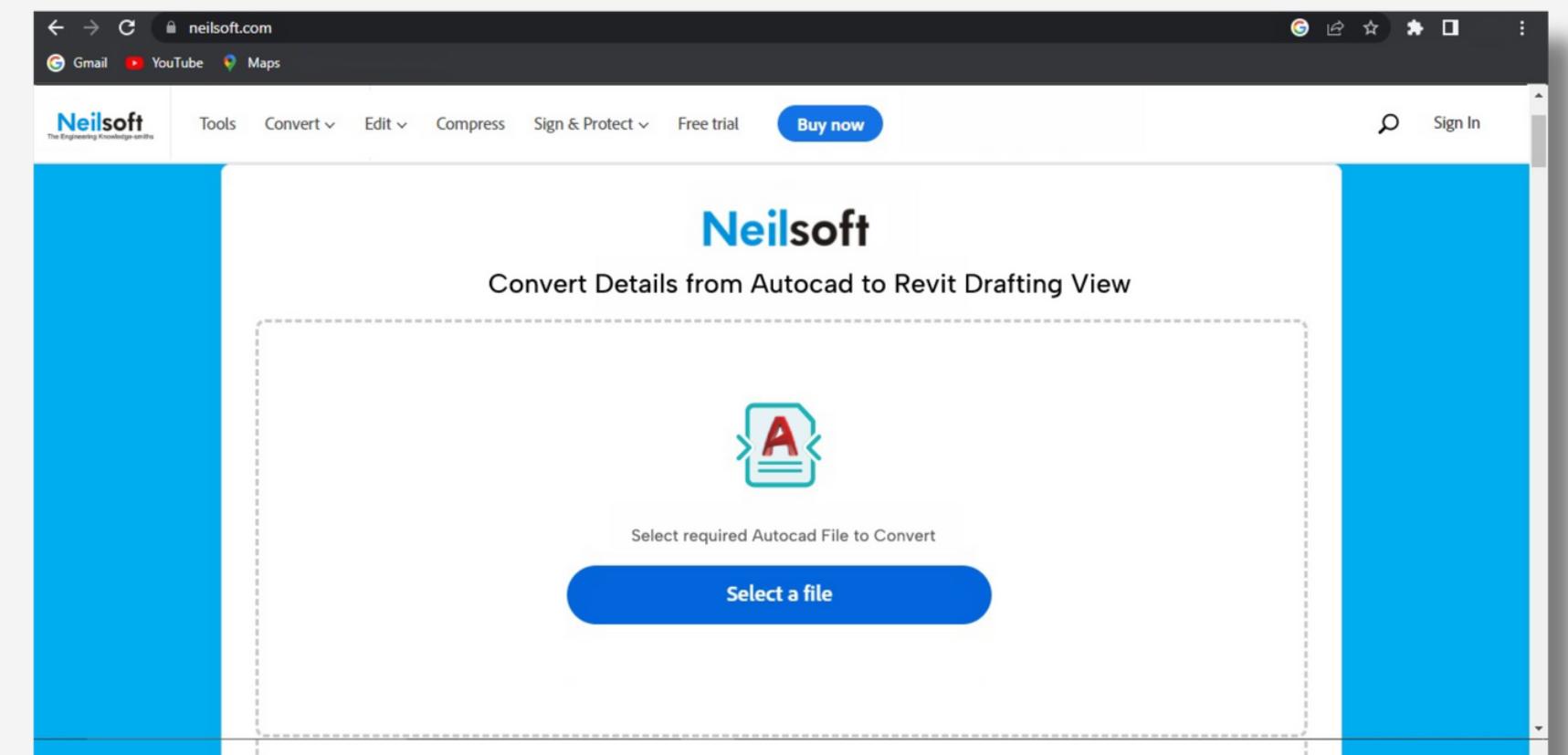
There can be two possible accessible methods, as detailed below:

## A) Plug In Based

- This software can be integrated in Revit in form of Plug-In.
- This will be relatively simple for users to use.



## B) Website Based



- Alternatively , user can even convert the required Autocad file with one click on our website too.
- In this, Revit license won't be required to convert Cad file. Thus anyone can convert the file.



# Plug-In base Userflow

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PART A



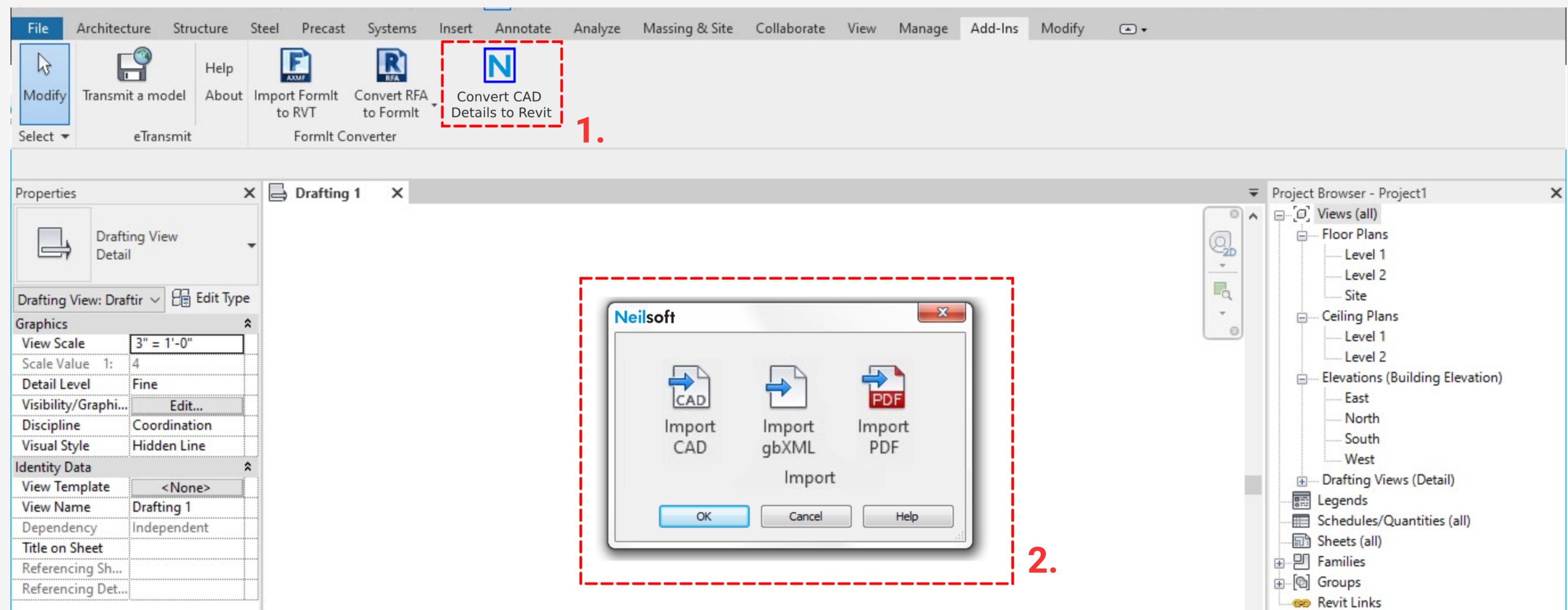
# Plug-In base Userflow



## Importing Autocad/PDF file

1. After Plug-In has been installed. Go to Add-In option on top Ribbon Bar & click on installed plugin.
2. Choose file type from the given option & click "OK"
3. Software should be competent enough to convert Cad, XML & PDF file details to Revit.

A.1

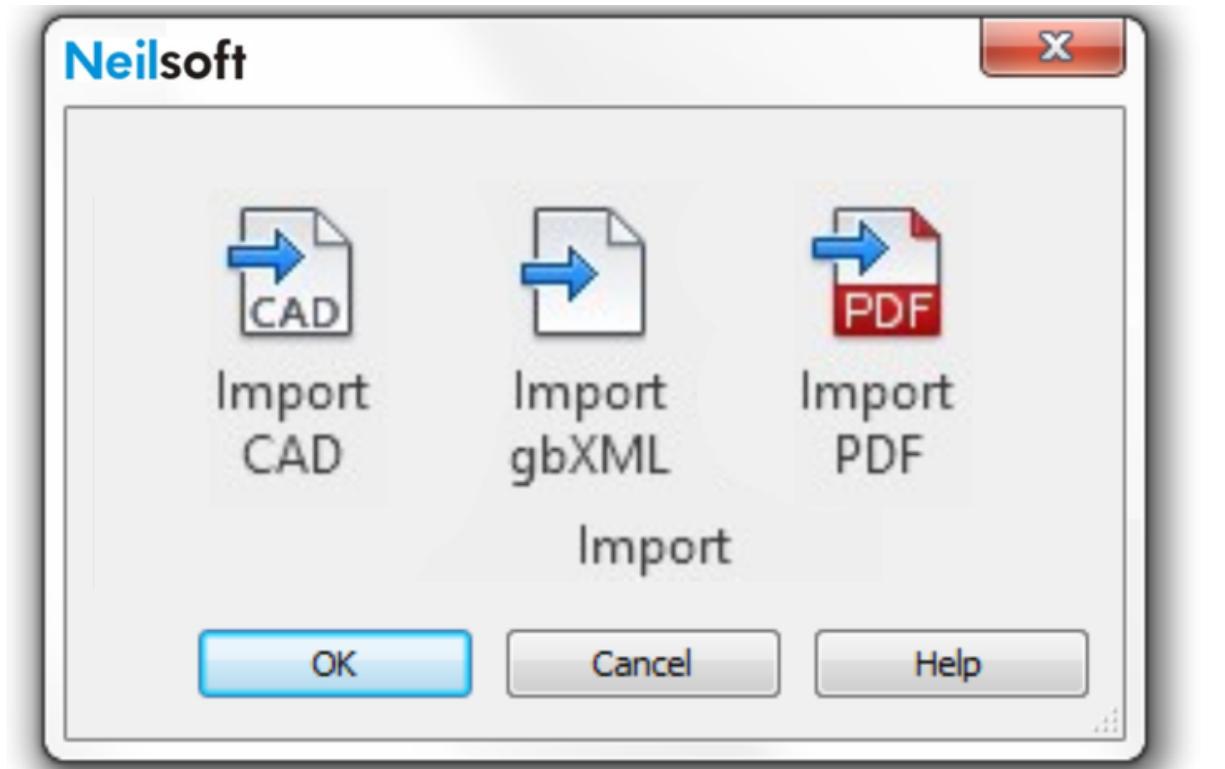


# Plug-In base Userflow



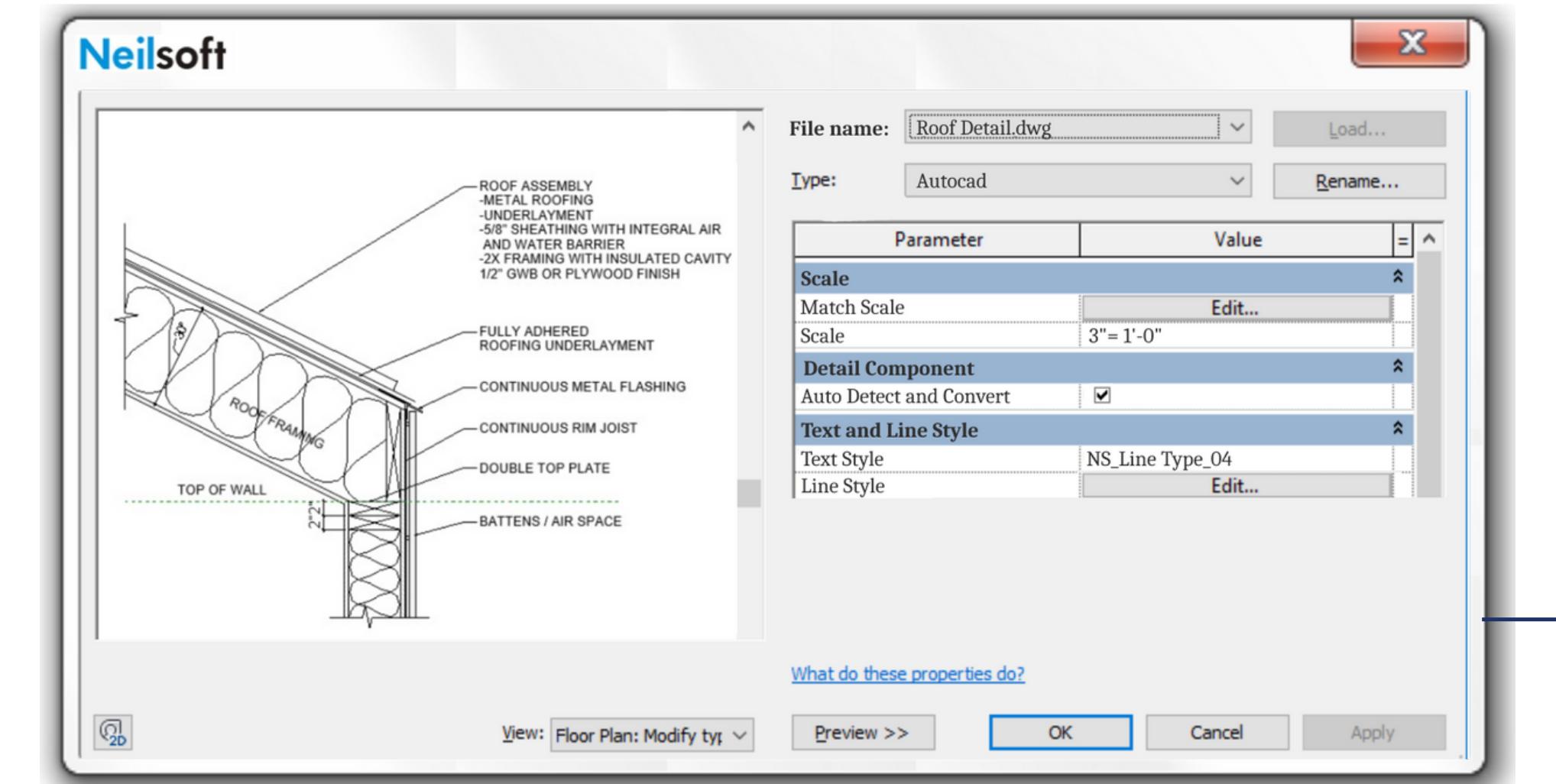
## Selecting scale & other options for the imported file

A.2

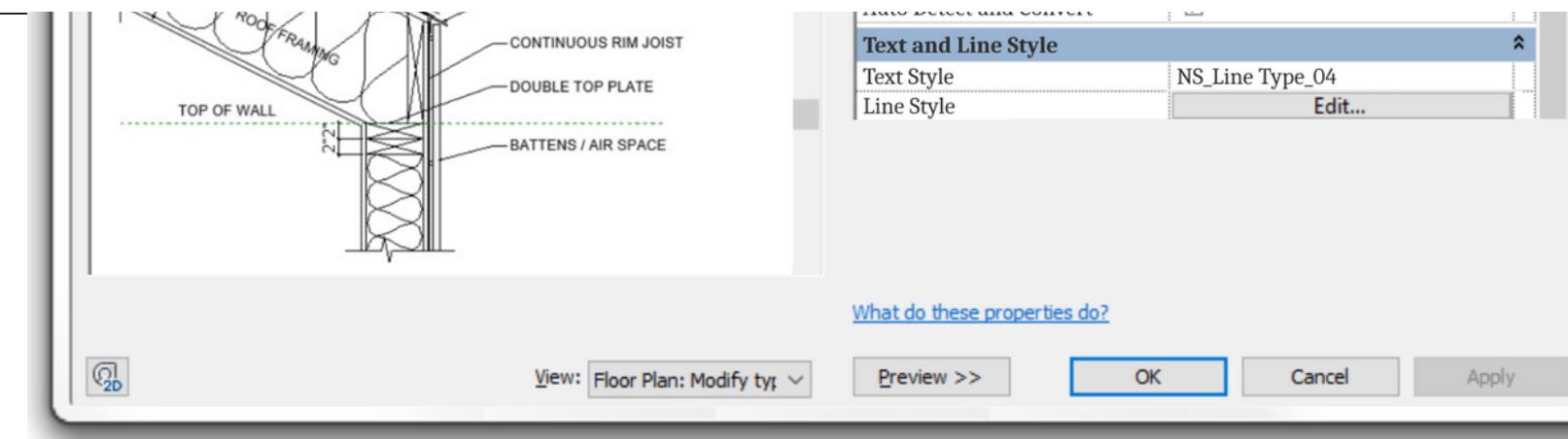


4. Software should be intelligent enough to auto detect the typical element & convert them to Detail Component (e.g Insulation, Gypsum, Wooden Block, Scew etc)

1. This type of dialogue box will display after the file has been uploaded.
2. The options in this dialogue box will give you additional control over the details of the upcoming output.
3. Under "Scale" option, and user & even "Match Scale" the NTS imported detail to provided dimension.



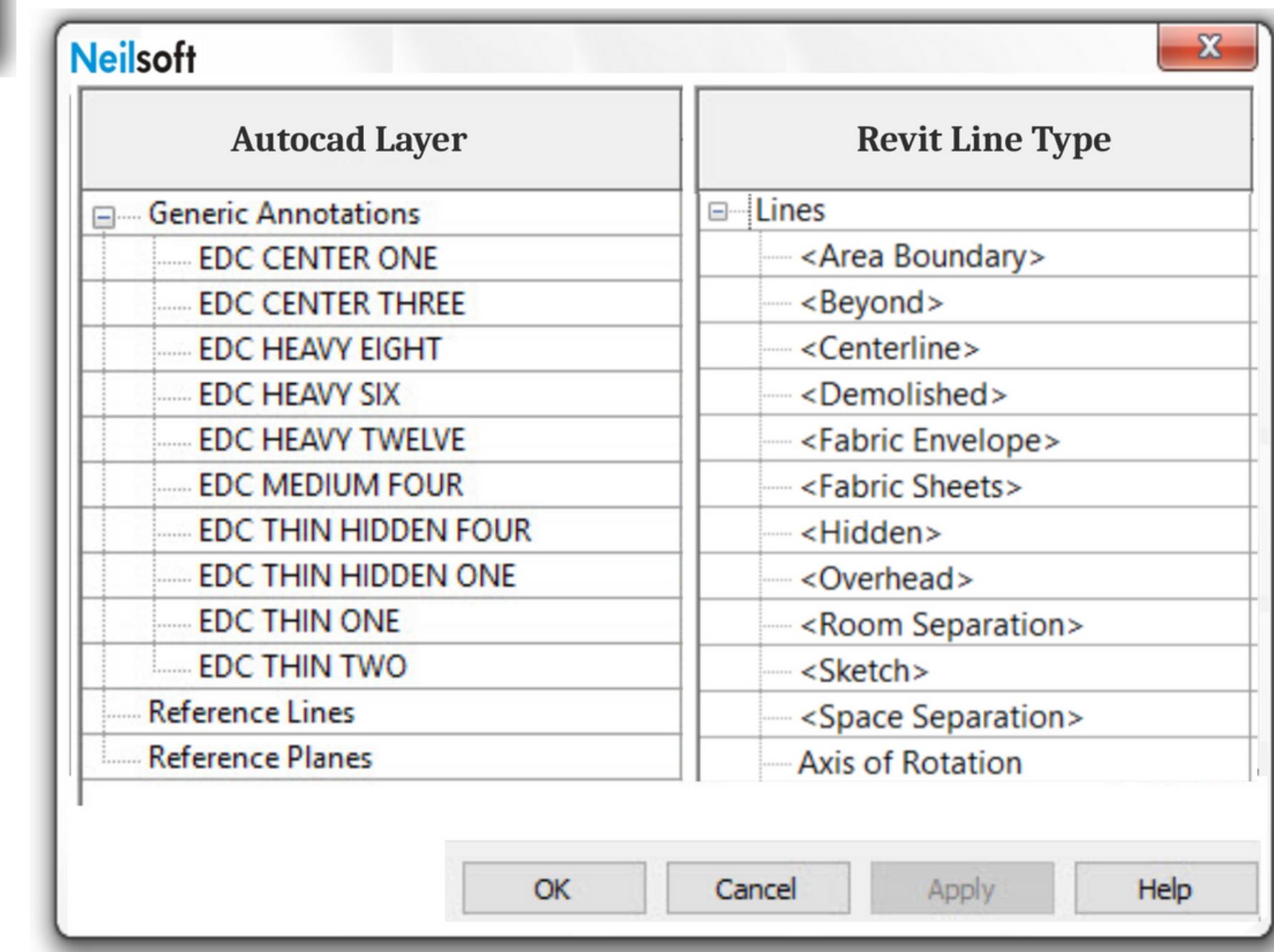
# Plug-In base Userflow



## Converting CAD Layers to Revit Lines in one go

A.3

- User will have completed control on line type.
- Once "Line Style" has been selected, a display dialogue box will appear.
- This allows the user to change and manage which Autocad Layer should be converted to which Revit Line Type.



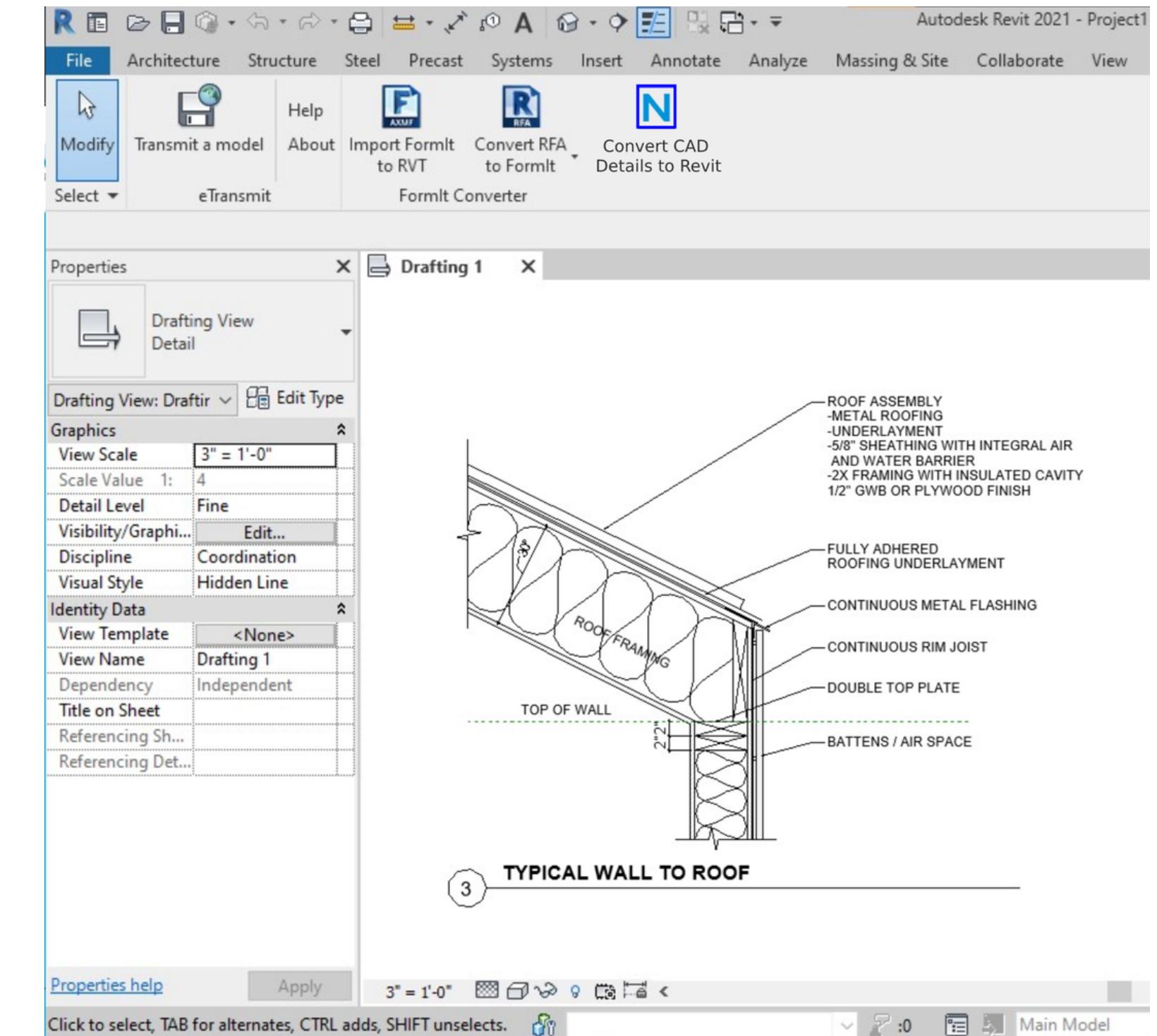
# Plug-In base Userflow



## Final Output

- Post clicking "Ok", the required output will be generated.
- As simple as that.
- Thus, we can surely save 80% time which could have been required for the manual redrafting.

A.4



# Website base Userflow

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PART B



# Website base Userflow



## Importing Autocad/PDF file on website

- Visit our website.
- Choose file by clicking on "Select a file" option & click "OK".

B.1

The screenshot shows a web browser window with the URL 'neilsoft.com' in the address bar. The page header includes the Neilsoft logo, navigation links for Tools, Convert, Edit, Compress, Sign & Protect, and a 'Buy now' button. The main content area features the Neilsoft logo and the title 'Convert Details from Autocad to Revit Drafting View'. Below this is a dashed rectangular box containing an icon of a document with the letter 'A' and the text 'Select required Autocad File to Convert'. A large blue button below it says 'Select a file'. To the right of the main content area, there is a vertical sidebar with a blue background and a large blue arrow pointing to the right.

# Website base Userflow



## Selecting scale & other options for the Uploaded File.

- Post that options will be same as mentioned in the Plug-In base slide.
- In website base, just the "Line Style" option won't be available. Revit should be opened for that.

B.2

Neilsoft

Convert Details from Autocad to Revit Drafting View

Neilsoft

File name: Roof Detail.dwg  
Type: Autocad

Parameter	Value
Scale	Match Scale Edit... Scale 3" = 1'-0"
Detail Component	Auto Detect and Convert <input checked="" type="checkbox"/>
Text	Text Style NS_Line Type_04

What do these properties do?

View: Floor Plan: Modify typ Preview >> OK Cancel Apply

→

# Website base Userflow



## Downloading the Generated file.

- In stated 2 steps the output will be generated.
- User will have flexibility to download the as per the required Revit Version.

B.3

The screenshot shows a web browser window with the URL [neilsoft.com](https://neilsoft.com) in the address bar. The page header includes the Neilsoft logo, navigation links for Tools, Convert, Edit, Compress, Sign & Protect, and a Free trial button. A prominent blue "Buy now" button is also visible. The main content area features the Neilsoft logo and the title "Convert Details from Autocad to Revit Drafting View". Below this, there is a technical diagram of a roof assembly with various components labeled: ROOF ASSEMBLY, METAL ROOFING, UNDERLAYMENT, SHEATHING WITH INTEGRAL AIR AND WATER BARRIER, 2X FRAMING WITH INSULATED CAVITY, 1/2" GWB OR PLYWOOD FINISH, FULLY ADHERED ROOFING UNDERLAYMENT, CONTINUOUS METAL FLASHING, CONTINUOUS RIM JOIST, DOUBLE TOP PLATE, and BATTENS / AIR SPA. To the right of the diagram is a list of Autodesk Revit content versions, each preceded by a radio button:

- Autodesk Revit 2024 Content
- Autodesk Revit 2023 Content
- Autodesk Revit 2022 Content
- Autodesk Revit 2021 Content
- Autodesk Revit 2020.2 Content
- Autodesk Revit 2020.1 Content
- Autodesk Revit 2020 Content
- Autodesk Revit 2019 Content

A large blue "DOWNLOAD" button with a downward arrow is located at the bottom of the content area. A blue arrow points to the right on the right side of the page.



# Thank You

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